

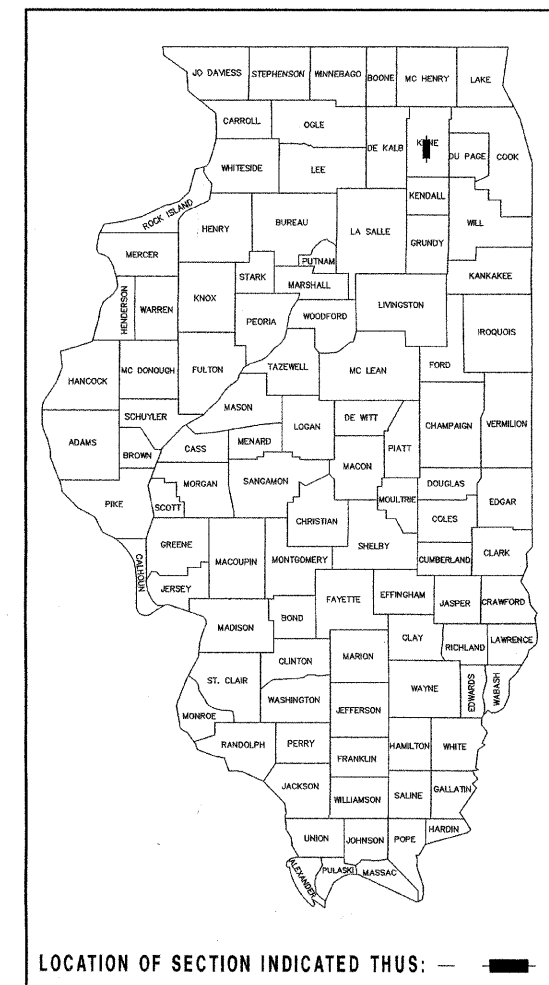
F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEETS
336	99-00243-00-PV	KANE	268
COVER SHEET	CONTRACT NO. 83782		1
			19 = 277
F.H.W.A. REG.5 ILLINOIS CMF-F-0336(010)			

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES, LEGEND
3A-H	SUMMARY OF QUANTITIES
4A-C	SCHEDULE OF QUANTITIES
5-6	ALIGNMENT, TIES AND BENCHMARKS
7-13	TYPICAL SECTIONS
14	STAGING SEQUENCE NOTES
15-19	STAGE 1 CONSTRUCTION PLANS
20	STAGE 1-PHASE 2 CONSTRUCTION PLANS
21-22	STAGE 1A CONSTRUCTION PLANS
23-27	STAGE 2 CONSTRUCTION PLANS
28-32	STAGE 3 CONSTRUCTION PLANS
33-38	STAGING IL. ROUTE 64 INTERSECTION
39-40	EROSION CONTROL NOTES
41-46	EROSION CONTROL STAGE 1 PLANS
47	EROSION CONTROL STAGE 1-PHASE 2 PLANS
48-49	EROSION CONTROL STAGE 1A PLANS
50-54	EROSION CONTROL STAGE 2 PLANS
55-59	EROSION CONTROL STAGE 3 PLANS
60-75	PLAN AND PROFILE - RANDALL ROAD
76-81	PLAN AND PROFILE - ILLINOIS ROUTE 64
82-83	PLAN AND PROFILE - DEAN STREET
84-99	UTILITY PLAN AND PROFILE - RANDALL ROAD
100	UTILITY PLAN AND PROFILE - OAK STREET
101-106	UTILITY PLAN AND PROFILE - ILLINOIS ROUTE 64
107-108	UTILITY PLAN AND PROFILE - DEAN STREET
109	RANDALL ROAD - IL. RTE. 64 PAVEMENT ELEVATIONS
110-112	EDGE OF PAVEMENT RETURN PROFILES
113-117	PAVEMENT MARKING PLANS
118-122	TRAFFIC SIGNALS - DETAILS (TS1-TS5)
123-132	TRAFFIC SIGNALS - TEMPORARY (TS6-TS15)
133-136	TRAFFIC SIGNALS - PROPOSED (TS16-TS19)
137-141	TRAFFIC SIGNALS - PROPOSED INTERCONNECT PLANS (TS20-TS24)
142-145	LIGHTING PLANS
146-151	LIGHTING DETAILS
152-160	BICYCLE UNDERPASS PLANS
161-170	SPECIAL DETAILS
171-180	DISTRICT DETAILS
181	STAGED BUILDING REMOVAL PLAN
182-197	RANDALL ROAD MEDIAN & BICYCLE PATH LANDSCAPING PLANS
198-240	CROSS SECTIONS - RANDALL ROAD
241-262	CROSS SECTIONS - ILLINOIS ROUTE 64
263-268	CROSS SECTIONS - DEAN STREET

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY
F.A.P. ROUTE 336 (RANDALL ROAD - CH34)
F.A.P. ROUTE 307 (IL. ROUTE 64 - MAIN STREET)
COUNTY SECTION NO. 99-00243-00-PV
PROJECT CMF-F-0336(010)
KANE COUNTY
JOB NO. C-91-330-99

DESCRIPTION OF PROJECT

THIS IMPROVEMENT CONSISTS OF P.C.C. JOINTED PAVEMENT AND FULL-DEPTH BITUMINOUS PAVEMENT RECONSTRUCTION, FULL DEPTH BITUMINOUS WIDENING AND RESURFACING, POURED-IN-PLACE CONCRETE BICYCLE UNDERPASS AND BITUMINOUS BICYCLE PATH, SIDEWALK, CURB AND GUTTER, STORM SEWER, WATER MAIN, TRAFFIC SIGNAL MODERNIZATION AND INTERCONNECT, LIGHTING, PAVEMENT MARKING, LANDSCAPING AND OTHER APPURTENANT WORK NECESSARY TO COMPLETE THE PROJECT SHOWN HEREIN AND AS DESCRIBED IN THE SPECIFICATIONS.

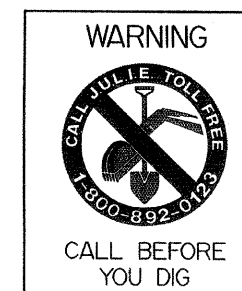
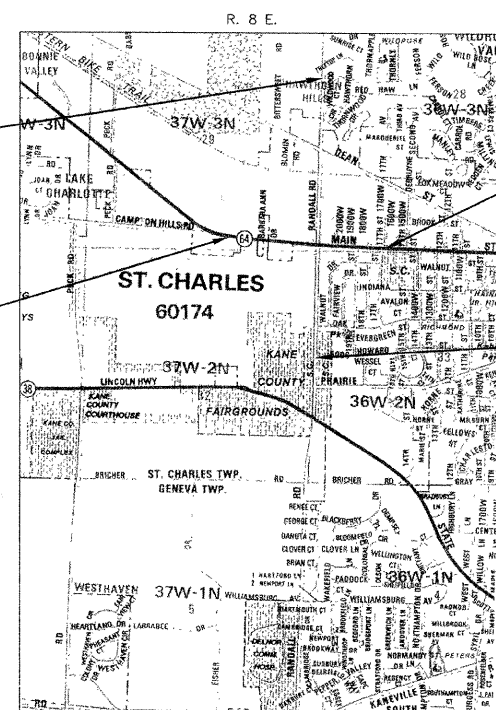


RANDALL ROAD
IMPROVEMENT BEGINS
STATION 1+00

ILLINOIS ROUTE 64
IMPROVEMENT BEGINS
STATION 331+60

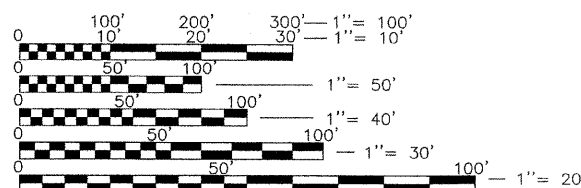
ILLINOIS ROUTE 64
IMPROVEMENT ENDS
STATION 364+25

RANDALL ROAD
IMPROVEMENT ENDS
STATION 64+50



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	<u>FEBRUARY 7</u> 20 <u>05</u> <i>Carl H. Hurler</i> COUNTY ENGINEER KANE COUNTY
APPROVED	<u>February 31</u> 2005 <i>Angie M. [Signature]</i> CITY ENGINEER CITY OF ST. CHARLES
PASSED	<u>APRIL 11</u> 2005 <i>[Signature]</i> DISTRICT ENGINEER OF LOCAL ROADS AND STREETS
APPROVED	<u>April 11</u> 20 <u>05</u> <i>Dina O'Keefe</i> DISTRICT ENGINEER

STATE STANDARDS
SEE SHEET 2 FOR STATE STANDARDS



TRAFFIC DATA:	2024 ADT	POSTED / DESIGN SPEED
RANDALL ROAD	55,000	45 / 45
IL. ROUTE 64	36,000	35 / 35

DESIGN DESIGNATION:
FAP 336 RANDALL RD.
7640(24) ARTERIAL 10.88 (PCC-20)
FAP 307 IL. ROUTE 64
5590 (24) PRINCIPAL ARTERIAL 4.89 (FD-20)

NET LENGTH OF RANDALL ROAD	=	6,350 LIN. FT. (1.203 MILES)
NET LENGTH OF ILLINOIS ROUTE 64	=	3,265 LIN. FT. (0.618 MILES)
TOTAL LENGTH OF IMPROVEMENT	=	9,615 LIN. FT. (1.821 MILES)

DATE: 2/03/05
BY: *James R. Lenzini*
LICENSE EXPIRES: 11/30/05

LICENSE NO.

SEAL:



Account Number:
03-05-0181

Hampton
Lenzini and
Renwick, Inc.
Civil Engineers
Land Surveyors
380 Shepard Drive
Elgin, Illinois 60123-7010
847.697.6700

SPECIFICATIONS, STANDARDS, AND SPECIAL PROVISIONS

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, "ADOPTED JANUARY 1, 2002 (HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS); THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS," ADOPTED MARCH 1, 2005; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE "STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS", FIFTH EDITION; THE DETAILS IN THE PLANS; AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST STANDARD OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 107.14 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL AT ALL TIMES PROVIDE PROTECTION FOR TRAFFIC AS CALLED FOR IN THE APPLICATION OF TRAFFIC CONTROL DEVICES, THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE PLANS.

UTILITIES

THE CONTRACTOR SHALL COOPERATE WITH THE CITY, COUNTY AND STATE IF ANY UTILITY IMPROVEMENTS ARE REQUIRED BY THE CITY, COUNTY OR STATE WITHIN THE DURATION OF THE CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL EXISTING AND PROPOSED UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.

THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE, AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION EQUAL TO THAT EXISTING BEFORE THE DAMAGE INCURRED. THIS WORK SHALL BE ARRANGED BY THE UTILITY COMPANY AND SHALL BE AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL NOTIFY THE CITY OF ST. CHARLES PUBLIC WORKS DEPARTMENT ONE WEEK IN ADVANCE OF ALL WATER MAIN SHUT DOWNS. UNDER NO CIRCUMSTANCE SHALL THE CONTRACTOR OPERATE ANY VALVES OR HYDRANTS.

STAKING

THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS, AND REFERENCE MARKERS UNTIL THE OWNER, HIS AGENT, OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.

ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. CURB AND GUTTER ELEVATIONS SHOWN AT POINTS OF CURVE, ETC., ARE EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.

STRUCTURE OFFSET LOCATIONS GIVEN ON THE DETAILED PLANS ARE TO THE FOLLOWING POINTS: A) FOR STRUCTURES FALLING IN THE CURB LINE--TO THE EDGE OF PAVEMENT; B) FOR ALL OTHER STRUCTURES--TO THE CENTER OF THE STRUCTURE.

ALL ELEVATIONS ARE ON U.S.G.S. DATUM.

ALL OFFSET LOCATIONS GIVEN ON THE DETAILED PLANS FOR STRUCTURES, EDGE OF PAVEMENT, ETC. ARE FROM THE CENTERLINE AS SHOWN ON THE PLANS.

SEWERS AND WATER MAINS

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

WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN IN AN OPERATING CONDITION TEMPORARY OUTLETS AND CONNECTIONS FOR ALL DRAINS, SEWERS, AND CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES WHICH HAVE THE CAPACITY TO RECEIVE AND DISCHARGE THE STORM WATER FLOW RATES NORMALLY ACCEPTED AND RELEASED BY EXISTING DRAINAGE FACILITIES. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.

THE COST OF INTERCONNECTIONS BETWEEN THE PROPOSED AND EXISTING SEWER SYSTEMS AND PROPOSED AND EXISTING WATER MAIN SYSTEMS SHALL BE INCLUDED IN THE VARIOUS UNIT PRICES OF THE ITEMS BEING CONNECTED.

ALL FRAMES, GRATES, LIDS, AND BOXES SCHEDULED TO BE REMOVED FROM EXISTING STRUCTURES SHALL REMAIN THE PROPERTY OF THE CITY, COUNTY OR STATE, AS APPLICABLE. ANY ITEMS DAMAGED DURING REMOVAL SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE. THE COST OF SALVAGING EXISTING FRAMES, GRATES, LIDS, OR BOXES AND/OR STOCKPILING THEM ON THE JOB SITE FOR PICKUP BY THE CITY, COUNTY OR STATE OR DELIVERY TO THE CITY, COUNTY OR STATE MAINTENANCE YARD SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.

ALL FRAMES WITH CLOSED LIDS TO BE FURNISHED AS PART OF THIS CONTRACT FOR ANY MANHOLE, CATCH BASIN, INLET OR VALVE VAULT, SHALL HAVE CAST INTO THE LID ONE OF THE FOLLOWING WORDS: FOR STORM SEWER STRUCTURES--"STORM", FOR SANITARY SEWER STRUCTURES--"SANITARY", FOR WATER SYSTEM STRUCTURES--"WATER". ANY ADDITIONAL COST FOR THIS REQUIREMENT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE FRAME AND CLOSED LID PROVIDED.

FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION AND CROSS SLOPE OF THE AREA IN WHICH THEY ARE LOCATED.

ALL STORM SEWERS SHALL BE RCCP CLASS IV, UNLESS NOTED OTHERWISE ON THE PLAN.

WATER MAIN SHALL HAVE A MINIMUM COVER OF FIVE (5) FEET.

SOIL BORINGS PERFORMED FOR THIS CONTRACT INDICATE THAT RELATIVELY SOFT COHESIVE SOILS WITH STRENGTH VALUES LESS THAN 1.25 TSF MAY BE ENCOUNTERED DURING EXCAVATION FOR SEWERS AND WATER MAINS. THESE MATERIALS MAY BE UNSTABLE DURING TRENCHING AND MAY REQUIRE 12 TO 18 INCHES OF ADDITIONAL GRANULAR BEDDING FOR SATISFACTORY PIPE INSTALLATION. IN ADDITION, TIGHT SHEETING/BRACING SYSTEMS AND DEWATERING MAY BE REQUIRED.

BACK FILL

STORM SEWER, WATER MAIN, AND SANITARY SEWER SHALL BE BACK FILLED IN ACCORDANCE WITH ARTICLE 550.07, METHOD 1 ONLY, OR AS DIRECTED BY THE ENGINEER.

ALL TRENCH BACK FILL QUANTITIES FOR STORM AND SANITARY SEWER AND WATER MAIN HAVE BEEN COMPUTED AND SHALL BE PAID FOR IN ACCORDANCE WITH THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, BUREAU OF CONSTRUCTION TRENCH BACK FILL TABLE.

TRENCH BACK FILL SHALL BE GRADATION FA2.

SIGNS

PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR, ENGINEER AND KANE CO. DOT MAINTENANCE PERSONNEL SHALL INVENTORY THE LOCATION, SIZE, TYPE AND CONDITION OF ALL EXISTING SIGNS. ANY SIGN DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

ALL SIGNS SHALL BE ERECTED IN STRICT CONFORMANCE WITH SECTION 720 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND BY STATE PRE QUALIFIED CONTRACTOR PERSONNEL, SUCH AS A SUB CONTRACTOR THAT SPECIALIZES IN TRAFFIC CONTROL AND SIGN PLACEMENT. TO INSURE THIS OPERATION IS PERFORMED CORRECTLY THERE WILL BE A WALKTHRU ON THE JOB WITH THE ENGINEER AND KANE CO. DOT MAINTENANCE PERSONNEL AS PART OF THE OVERALL PUNCH LIST.

ALL WORK INVOLVING SIGNS SHALL BE GOVERNED BY THE FOLLOWING REQUIREMENTS:

- SIGNS SHALL NOT BE MOVED UNTIL PROGRESS OF WORK NECESSITATES IT.HA
- THE CONTRACTOR WILL BE REQUIRED TO TEMPORARILY RESET ALL SUCH SIGNS THAT INTERFERE WITH HIS WORK DURING CONSTRUCTION OPERATIONS. ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF THE TEMPORARY SETTING AND MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER AND BE VISIBLE TO TRAFFIC FOR WHICH IT IS INTENDED. THIS WORK WILL BE INCLUDED IN THE COST OF THE CONTRACT.
- ALL SIGNS SHALL BE INSTALLED OR RELOCATED IN PERMANENT LOCATIONS AS THE ROADWAY IS COMPLETED. THIS WORK SHALL BE PAID FOR USING THE APPROPRIATE PAY ITEM.
- ALL REMOVED SIGNS WILL BE RETURNED TO THE CITY, COUNTY OR STATE, AS APPLICABLE.
- LONGER POSTS MAY BE REQUIRED AT SOME TEMPORARY OR PERMANENT SIGN LOCATIONS TO MAINTAIN PROPER SIGN ELEVATIONS.

GENERAL NOTES

MISCELLANEOUS

THE CONTRACTOR SHALL MAINTAIN EXISTING SIDE STREET ACCESS, EXISTING DRIVEWAY ACCESS, AND PEDESTRIAN ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT, UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE ITEM "AGGREGATE FOR TEMPORARY ACCESS".

SAWING OF REMOVAL ITEMS AS NOTED ON THE PLANS, SPECIFIED IN THE STANDARD SPECIFICATIONS, OR AS REQUIRED BY THE ENGINEER SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.

AT ALL BUTT JOINT LOCATIONS, THE EXISTING SURFACE SHALL BE CUT TO A MINIMUM THICKNESS OF TWO (2) INCHES AS INDICATED ON THE PLANS.

THE THICKNESSES OF BITUMINOUS MIXTURES SHOWN IN THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE SURFACES OR BASES ON WHICH THE BITUMINOUS MIXTURES ARE TO BE PLACED.

PROTECTIVE COAT SHALL BE APPLIED TO ALL GUTTER FLAGS, FACE AND TOP OF CURB, P.C.C. SIDEWALK, P.C.C. DRIVEWAY PAVEMENT, AND AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING FRESH CONCRETE FROM DAMAGE AND VANDALISM. ANY DAMAGED OR VANDALIZED CONCRETE SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

ANY SHEETING AND/OR SHORING USED FOR THIS IMPROVEMENT OTHER THAN THAT APPROVED FOR CONSTRUCTION OF THE BICYCLE UNDERPASS SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS CONTRACT.

EXISTING PAVEMENT THICKNESSES SHOWN ON THE PLANS ARE APPROXIMATE, BASED ON AVAILABLE INFORMATION AT THE TIME OF DESIGN. ANY ADDITIONAL COSTS REQUIRED BY THE CONTRACTOR DUE TO THICKNESSES OTHER THAN THOSE SHOWN ON THE PLANS WILL BE INCLUDED IN THE COST OF THE CONTRACT.

WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN, FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION. THE CONTRACTOR IS PROHIBITED FROM BURNING ANY MATERIAL WITHIN OR ADJACENT TO THE IMPROVEMENT.

ALL TYPE I AND II BARRICADES SHALL BE WEIGHTED DOWN WITH TWO SANDBAGS EACH. (ONE WEIGHTED SANDBAG ACROSS EACH BOTTOM RAIL). ALL TYPE III BARRICADES SHALL REQUIRE FOUR SANDBAGS EACH.

TYPE "A" CURB RAMPS SHALL BE INSTALLED AT ALL INTERSECTING STREETS AND DRIVEWAYS PER CURRENT IDOT STANDARDS AT LOCATIONS WHERE SIDEWALK IS SHOWN ON PLAN.

THE CONTRACTOR SHALL PREPARE THE SUBGRADE IN ACCORDANCE WITH ARTICLE 301.03 OF THE STANDARD SPECIFICATIONS PRIOR TO THE REMOVAL OF ANY UNSTABLE MATERIALS.

ALL DISTURBED AREAS WITHIN THE PROJECT THAT ARE NOT OTHERWISE SURFACED SHALL BE CLEARED, LAYERED WITH TOPSOIL, AND SEEDED OR SODDED AS SHOWN IN THE PLANS. LIMITS SHOWN ON THE PLANS ARE THE MAXIMUM PAY WIDTHS FOR PAYMENT PURPOSES.

USE A FERTILIZER WITH AN ANALYSIS OF 1:1:1 RATIO AT THE FOLLOWING RATE PER ACRE:

	SEEDING	SODDING
NITROGEN FERTILIZER NUTRIENT	90 LBS.	60 LBS.
PHOSPHORUS FERTILIZER NUTRIENT	90 LBS.	60 LBS.
POTASSIUM FERTILIZER NUTRIENT	90 LBS.	60 LBS.

SUPPLEMENTAL WATERING SHALL BE PERFORMED WHEN DIRECTED BY THE ENGINEER AT A RATE OF 3 GAL PER SQ. YD.

THE CONTRACTOR SHALL DISPOSE OF ALL SIDEWALK, CURB AND GUTTER, PAVEMENT, AND ALL OTHER EXCAVATED MATERIAL NOT FOR SALVAGE AT HIS EXPENSE. ALL EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE EACH DAY. NO PAYMENT WILL BE MADE FOR HAULING OR TRUCKING TO DISPOSAL LOCATIONS.

THE CONTRACTOR WILL BE REQUIRED TO TEMPORARILY RESET ALL EXISTING MAILBOXES WHICH INTERFERE WITH CONSTRUCTION OPERATIONS, AND AFTER COMPLETION OF ROADWAY CONSTRUCTION, TO SET THEM IN THEIR PERMANENT LOCATIONS AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE IN CONFORMANCE WITH ARTICLE 107.20 OF THE STANDARD SPECIFICATIONS, AND THE COST WILL BE CONSIDERED INCLUDED IN THE CONTRACT.

POROUS GRANULAR EMBANKMENT SPECIAL (PGES) HAS BEEN PROVIDED AT THE LOCATIONS INDICATED FOR SOILS WHICH TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER (BY USE OF A CONE PENETROMETER IN CONJUNCTION WITH THE IDOT SUBGRADE STABILITY MANUAL). IF UNSTABLE SOILS ARE ENCOUNTERED THE SOILS SHALL BE REMOVED AND REPLACED WITH PGES. IF UNSTABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY WILL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE THE CONTRACTOR.

BITUMINOUS MIXTURE REQUIREMENT			
ITEM	AC TYPE	VOIDS	MAX% RAP
BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N50	PG 64-22	4% @ 50 Gyr.	15
BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	PG 64-22	4% @ 50 Gyr.	15
POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "F", N90	SBS PG 70-22	4% @ 90 Gyr.	0
BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N50	PG 58-22	4% @ 50 Gyr.	25
BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N90	SBS PG 70-22	4% @ 90 Gyr.	0
BITUMINOUS BASE COURSE, SUPERPAVE, 6", 9" & 10"	PG 58-22	2% @ 50 Gyr.	50
BITUMINOUS SHOULDER, SUPERPAVE 6"	PG 58-22	2% @ 30 Gyr.	50
LEVELING BINDER (MACHINE METHOD), SUPERPAVE, N70 MIX D	PG 64-22	4% @ 70 Gyr.	15
INCIDENTAL BITUMINOUS SURFACING, SUPERPAVE, N50	PG 58-22	2% @ 50 Gyr.	50
CLASS D PATCHES, IL 19, 10"-14"	PG 64-22	4% @ 70 Gyr.	15

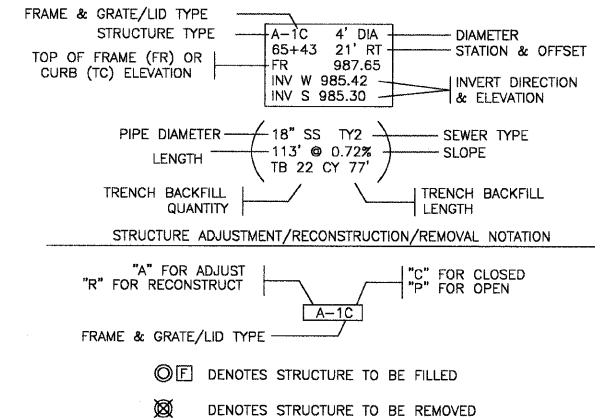
*THE SPECIAL PROVISION FOR "SUPERPAVE BITUMINOUS CONCRETE MIXTURES" SHALL APPLY TO THIS ITEM.
THE UNIT WEIGHT USED FOR ALL BITUMINOUS QUANTITIES IS 112 POUNDS PER INCH THICKNESS PER SQUARE YARD.

SUPPLEMENTAL LEGEND

SEE IDOT HIGHWAY STANDARDS FOR ADDITIONAL INFORMATION

- STREET ADDRESS
- TELEPHONE CABLE (TUC) OR DUCT (TUD)
- EXISTING STREET LIGHTING CABLE
- PROPOSED STREET LIGHTING OR TRAFFIC SIGNAL CABLE
- EXISTING CURB OR CURB & GUTTER
- PROPOSED CURB OR CURB & GUTTER
- EXISTING CONCRETE PAVEMENT, CURB, CURB & GUTTER, DRIVEWAY PAVEMENT AND SIDEWALK TO BE REMOVED
- CLASS D PATCHES
- BITUMINOUS SURFACE REMOVAL

SEWER STRUCTURE AND PIPE NOTATION



- DENOTES STRUCTURE TO BE FILLED
- DENOTES STRUCTURE TO BE REMOVED

STATE STANDARDS

- 000001-04 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001 AREAS OF REINFORCEMENT BARS
- 280001-02 TEMPORARY EROSION CONTROL SYSTEMS
- 420001-06 PAVEMENT JOINTS
- 420106-03 10.8 m (36") JOINTED PCC PAVEMENT
- 420111-01 PCC PAVEMENT ROUNDOUTS
- 424001-04 CURB RAMPS FOR SIDEWALKS
- 442201-01 CLASS C AND D PATCHES
- 542106 REINFORCED CONCRETE END SECTIONS FOR PIPE CULVERTS, 1050 mm (42") THRU 1500 mm (60") DIAMETER AT RIGHT ANGLES WITH ROADWAY
- 542301 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 542306 PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
- 542311 GRATING FOR CONCRETE FLARED END SECTION (FOR 600 mm (24") THRU 1300 mm (54") PIPE)
- 542601 REINFORCED CONCRETE PIPE ELBOW
- 602001 CATCH BASIN, TYPE A
- 602006 CATCH BASIN, TYPE B
- 602011 CATCH BASIN, TYPE C
- 602101-01 DRAINAGE STRUCTURES, TYPES 1, 2 & 3
- 602301 INLET, TYPE A
- 602401 MANHOLE TYPE A
- 602406-01 MANHOLE TYPE A, 1800 mm (72") DIAMETER
- 602501 VALVE VAULT, TYPE A
- 602601 PRECAST REINFORCED CONCRETE FLAT SLAB TOP
- 602701 CAST IRON STEPS
- 604001-02 FRAME AND LIDS, TYPE 1
- 604031-01 GRATE, TYPE 7
- 604036-01 GRATE, TYPE 8
- 604056-01 FRAME AND GRATE, TYPE 11V
- 604091-01 FRAME AND GRATE, TYPE 24
- 606001-02 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 606301-02 PC CONCRETE ISLANDS AND MEDIANS
- 606306-01 CORRUGATED PC CONCRETE MEDIANS
- 630001-05 STEEL PLATE BEAM GUARDRAIL
- 630101-05 GUARDRAIL MOUNTED ON EXISTING CULVERTS
- 630201-03 PCC/BITUMINOUS STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
- 630301-03 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 635006-02 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 664001-01 CHAIN LINK FENCE
- 701101-01 OFF-ROAD OPERATIONS, MULTILANE, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE
- 701501-03 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701502-01 URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
- 701601-04 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
- 701602-02 URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
- 701606-04 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701701-04 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 702001-05 TRAFFIC CONTROL DEVICES
- 704001-02 TEMPORARY CONCRETE BARRIER
- 720001 SIGN PANEL MOUNTING DETAILS
- 720006 SIGN PANEL ERECTION DETAILS
- 720011 METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
- 729001 APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
- 780001-01 TYPICAL PAVEMENT MARKINGS
- 805001 ELECTRICAL SERVICE INSTALLATION DETAILS
- 814001 CONCRETE HANDHOLES
- 814006 DOUBLE HANDHOLES
- 857001 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
- 877011-02 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE
- 878001-03 CONCRETE FOUNDATION DETAILS
- 880001 SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
- 880006 TRAFFIC SIGNAL MOUNTING DETAILS
- 886001 DETECTOR LOOP INSTALLATIONS

F.A.P. COUNTY SECTION	COUNTY	TOTAL SHEET
ROUTE 98-00243-00-PV	KANE	268
CONTRACT NO. 83782		2
GENERAL NOTES, LEGEND		
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)		

SUMMARY OF QUANTITIES

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEETS
336	99-00243-00-PV	KANE	268
CONTRACT NO. 63782			3A
SUMMARY OF QUANTITIES			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE													
				J000-2A ROADWAY STA	J000-2A ROADWAY STU	Y003-TEA LANDSCAPING STU	Y003-TEA LANDSCAPING CITY NON-PART.	Y030-1E LIGHTING STU	Y030-1E LIGHTING CITY NON-PART.	Y031-1F SIGNALS DEAN STREET STU (1)	Y031-1F SIGNALS IL ROUTE 84 STU (2)	Y031-1F SIGNALS INTERCONNECT STU (3)	Y045-BTPW,TEA UNDERPASS STU	Y060 SANITARY CITY NON-PART. (4)	Y060 WATER MAIN CITY NON-PART. (5)		
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	251	142	109												
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	130	22	108												
20200100	EARTH EXCAVATION	CU YD	80,836	62,711	18,125												
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	12,800	7,900	4,900												
20800150	TRENCH BACKFILL	CU YD	21,108	12,119	910											509	7,570
20900320	POROUS GRANULAR BACKFILL, SPECIAL	TON	3,675													3,675	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	32,139	19,776	12,267											96	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	53,961			53,961											
21101685	TOPSOIL FURNISH AND PLACE, 24"	SQ YD	4,886				4,886										
21301084	EXPLORATION TRENCH 84" DEPTH	FOOT	300	200	100												
* 25000210	SEEDING, CLASS 2A	ACRE	4.6			4.6											
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	891			826	65										
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	891			826	65										
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	891			826	65										
* 25001750	SEEDING, CLASS 4 (SPECIAL)	ACRE	0.5			0.5											
* 25100115	MULCH, METHOD 2	ACRE	23.1			23.1											
* 25100630	EROSION CONTROL BLANKET	SQ YD	8,815			8,815											
* 25200110	SODDING, SALT TOLERANT	SQ YD	32,754			29,359	3,395										
25200200	SUPPLEMENTAL WATERING	UNIT	865			813	52										
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1,422	1,272	150												
28000300	TEMPORARY DITCH CHECKS	EACH	5	5													
28000400	PERIMETER EROSION BARRIER	FOOT	7,538	5,800	1,738												
28000500	INLET AND PIPE PROTECTION	EACH	2	2													
28000510	INLET FILTERS	EACH	14	9	5												
28100105	STONE RIPRAP, CLASS A3	SQ YD	24	24													
28100107	STONE RIPRAP, CLASS A4	SQ YD	403	403													
28100109	STONE RIPRAP, CLASS A5	SQ YD	36	36													
28100111	STONE RIPRAP, CLASS A6	SQ YD	251	251													
28200200	FILTER FABRIC	SQ YD	690	690													
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	21	13	8												
40600300	AGGREGATE (PRIME COAT)	TON	50	31	19												
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	467	467													
42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	30,112	26,486	3,626												
42001300	PROTECTIVE COAT	SQ YD	52,030	41,720	10,310												
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	394	38	356												
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	75,757	45,118	30,639												
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	300	300													
42400460	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH, SPECIAL	SQ FT	1,394	609	785												
44000007	BITUMINOUS SURFACE REMOVAL 2"	SQ YD	9,824	6,112	3,712												
44000030	BITUMINOUS SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	16,064	13,781	2,283												
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	195	59	136												
44000300	CURB REMOVAL	FOOT	72														
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	17,631	12,820	4,811												
44000600	SIDEWALK REMOVAL	SQ FT	18,795	9,179	9,616												
44002020	CONCRETE MEDIAN SURFACE REMOVAL	SQ FT	1,100	1,100													
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	79	79													
44201815	CLASS D PATCHES, TYPE II, 14 INCH	SQ YD	56	45	11												
44201819	CLASS D PATCHES, TYPE III, 14 INCH	SQ YD	117	18	99												
44201821	CLASS D PATCHES, TYPE IV, 14 INCH	SQ YD	406	209	197												
44300300	AREA REFLECTIVE CRACK CONTROL TREATMENT, SYSTEM A	SQ YD	33,552	23,753	9,799												
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	268	268													
48101600	AGGREGATE SHOULDERS, TYPE B 8"	SQ YD	127		127												
48202400	BITUMINOUS SHOULDERS SUPERPAVE 6"	SQ YD	518	518													
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	35,880													35,880	
50900805	PEDESTRIAN RAILING	FOOT	97													97	
51000105	PIPE HANDRAIL	FOOT	170													170	

* SPECIALTY ITEM

SUMMARY OF QUANTITIES

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEETS
336	99-00243-00-PV	KANE	268
CONTRACT NO. 83782			36
SUMMARY OF QUANTITIES			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE												
				J000-2A ROADWAY STA	J000-2A ROADWAY STU	Y003-TEA LANDSCAPING STU	Y003-TEA LANDSCAPING CITY NON-PART.	Y030-1E LIGHTING STU	Y030-1E LIGHTING CITY NON-PART.	Y031-1F SIGNALS DEAN STREET STU (1)	Y031-1F SIGNALS IL ROUTE 84 STU (2)	Y031-1F SIGNALS INTERCONNECT STU (3)	Y045-BTPW,TEA UNDERPASS STU	Y060 SANITARY CITY NON-PART. (1)	Y060 WATER MAIN CITY NON-PART. (2)	
54003000	CONCRETE BOX CULVERTS	CU YD	254											254		
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	9	8		1										
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	4	4												
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2	2												
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	2	2												
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	1	1												
54213687	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 42"	EACH	1	1												
54213705	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 60"	EACH	1	1												
54214713	PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ELLIPTICAL, EQUIVALENT ROUND-SIZE 18"	EACH	1	1												
54214719	PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ELLIPTICAL, EQUIVALENT ROUND-SIZE 24"	EACH	2	2												
54214743	PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ELLIPTICAL, EQUIVALENT ROUND-SIZE 48"	EACH	1	1												
54215460	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 60"	EACH	1	1												
54247110	GRATING FOR CONCRETE FLARED END SECTION 18"	EACH	4	4												
54247130	GRATING FOR CONCRETE FLARED END SECTION 24"	EACH	2	2												
54247150	GRATING FOR CONCRETE FLARED END SECTION 30"	EACH	2	2												
54247170	GRATING FOR CONCRETE FLARED END SECTION 36"	EACH	1	1												
54247180	GRATING FOR CONCRETE FLARED END SECTION 42"	EACH	1	1												
54247210	GRATING FOR CONCRETE FLARED END SECTION 60"	EACH	1	1												
54248110	GRATING FOR CONCRETE FLARED END SECTION EQUIVALENT ROUND-SIZE 18"	EACH	1	1												
54248130	GRATING FOR CONCRETE FLARED END SECTION EQUIVALENT ROUND-SIZE 24"	EACH	2	2												
54248180	GRATING FOR CONCRETE FLARED END SECTION EQUIVALENT ROUND-SIZE 48"	EACH	1	1												
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	943	638	305											
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	198	187	11											
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	122	122												
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	114	23	91											
550A0140	STORM SEWERS, CLASS A, TYPE 1 30"	FOOT	91	91												
550A0160	STORM SEWERS, CLASS A, TYPE 1 36"	FOOT	153	153												
550A0210	STORM SEWERS, CLASS A, TYPE 1 60"	FOOT	43	43												
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	3,757	2,460	1,297											
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	642	347	295											
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	1,130	915	215											
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	464	368	96											
550A0430	STORM SEWERS, CLASS A, TYPE 2 30"	FOOT	821	501	320											
550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	396	151	245											
550A0470	STORM SEWERS, CLASS A, TYPE 2 42"	FOOT	247	247												
550A0490	STORM SEWERS, CLASS A, TYPE 2 54"	FOOT	50	50												
550A0500	STORM SEWERS, CLASS A, TYPE 2 60"	FOOT	1,365	1,365												
550A0750	STORM SEWERS, CLASS A, TYPE 3 36"	FOOT	34	34												
550A0770	STORM SEWERS, CLASS A, TYPE 3 42"	FOOT	1,075	1,075												
550A0780	STORM SEWERS, CLASS A, TYPE 3 48"	FOOT	95	95												
550A0800	STORM SEWERS, CLASS A, TYPE 3 60"	FOOT	70	70												
550A2320	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	FOOT	344	132	212											
550A2330	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 15"	FOOT	27	19	8											
550A2360	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 24"	FOOT	36	18	18											
550A2380	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 30"	FOOT	36	36												
550A2520	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"	FOOT	631	324	307											
550A2530	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 15"	FOOT	72	72												
550A2560	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 24"	FOOT	36	36												
550A2580	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 30"	FOOT	314	214	100											
550A2600	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 36"	FOOT	19	19												
55034200	STORM SEWERS, TYPE 1, REINFORCED CONCRETE ELLIPTICAL PIPE, SPAN 23, RISE 14	FOOT	49	49												
55034300	STORM SEWERS, TYPE 1, REINFORCED CONCRETE ELLIPTICAL PIPE, SPAN 30, RISE 19	FOOT	100	100												
55034700	STORM SEWERS, TYPE 1, REINFORCED CONCRETE ELLIPTICAL PIPE, SPAN 53, RISE 34	FOOT	69	69												
55034800	STORM SEWERS, TYPE 1, REINFORCED CONCRETE ELLIPTICAL PIPE, SPAN 60, RISE 38	FOOT	417	417												
55035300	STORM SEWERS, TYPE 2, REINFORCED CONCRETE ELLIPTICAL PIPE, SPAN 23, RISE 14	FOOT	24	24												
55035400	STORM SEWERS, TYPE 2, REINFORCED CONCRETE ELLIPTICAL PIPE, SPAN 30, RISE 19	FOOT	62		62											

* SPECIALTY ITEM

SUMMARY OF QUANTITIES

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEETS
336	99-00243-00-PV	KANE	268
CONTRACT NO. 83792			3C
SUMMARY OF QUANTITIES			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE												
				J000-2A ROADWAY STA	J000-2A ROADWAY STU	Y003-TEA LANDSCAPING STU	Y003-TEA LANDSCAPING CITY NON-PART.	Y030-1E LIGHTING STU	Y030-1E LIGHTING CITY NON-PART.	Y031-1F SIGNALS DEAN STREET STU (1)	Y031-1F SIGNALS IL ROUTE 64 STU (2)	Y031-1F SIGNALS INTERCONNECT STU (3)	Y045-BTPW,TEA UNDERPASS STU	Y060 SANITARY CITY NON-PART.(1)	Y060 WATER MAIN CITY NON-PART.(2)	
55036900	STORM SEWERS, TYPE 3, REINFORCED CONCRETE ELLIPTICAL PIPE, SPAN 53, RISE 34	FOOT	140	140												
55100500	STORM SEWER REMOVAL 12"	FOOT	2,847	1,656	1,191											
55100700	STORM SEWER REMOVAL 15"	FOOT	1,368	759	609											
55100900	STORM SEWER REMOVAL 18"	FOOT	1,876	1,466	410											
55101200	STORM SEWER REMOVAL 24"	FOOT	439	95	344											
55101300	STORM SEWER REMOVAL 27"	FOOT	426	426												
55101400	STORM SEWER REMOVAL 30"	FOOT	520	291	229											
55101600	STORM SEWER REMOVAL 36"	FOOT	1,759		1,759											
55101800	STORM SEWER REMOVAL 42"	FOOT	525	390	135											
55102100	STORM SEWER REMOVAL 60"	FOOT	26	26												
* 56102900	DUCTILE IRON WATER MAIN 4"	FOOT	40													40
* 56103000	DUCTILE IRON WATER MAIN 6"	FOOT	703													703
* 56103100	DUCTILE IRON WATER MAIN 8"	FOOT	40													40
* 56103200	DUCTILE IRON WATER MAIN 10"	FOOT	999													999
* 56103300	DUCTILE IRON WATER MAIN 12"	FOOT	5,502													5,502
* 56103400	DUCTILE IRON WATER MAIN 16"	FOOT	2,237													2,237
* 56104800	WATER VALVES 4"	EACH	2													2
* 56104900	WATER VALVES 6"	EACH	6													6
* 56105000	WATER VALVES 8"	EACH	2													2
* 56105100	WATER VALVES 10"	EACH	5													5
* 56105200	WATER VALVES 12"	EACH	20													20
* 56105300	WATER VALVES 16"	EACH	6													6
* 56106600	ADJUSTING WATER MAIN 12"	FOOT	30	30												
* 56108800	TAPPING VALVES AND SLEEVES 6"	EACH	1													1
* 56109100	TAPPING VALVES AND SLEEVES 12"	EACH	1													1
* 56200300	WATER SERVICE LINE 1"	FOOT	305													305
* 56200500	WATER SERVICE LINE 1 1/2"	FOOT	20													20
* 56201400	CORPORATION STOPS 1"	EACH	9													9
* 56201600	CORPORATION STOPS 1 1/2"	EACH	1													1
* 56400100	FIRE HYDRANTS TO BE MOVED	EACH	1	1												
* 56400300	FIRE HYDRANTS TO BE ADJUSTED	EACH	2	1	1											
* 56400500	FIRE HYDRANTS TO BE REMOVED	EACH	13													13
* 56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	31													31
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	265										265			
60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	1										1			
60107600	PIPE UNDERDRAINS 4"	FOOT	5,929	5,532	397											
60107700	PIPE UNDERDRAINS 6"	FOOT	253										253			
60202405	CATCH BASINS, TYPE A, 4'-DIAMETER	EACH	176	130	46											
60205605	CATCH BASINS, TYPE A, 5'-DIAMETER	EACH	23	20	3											
60206705	CATCH BASINS, TYPE B	EACH	1	1												
60220200	MANHOLES, TYPE A, 4'-DIAMETER	EACH	27	17	10											
60222900	MANHOLES, TYPE A, 5'-DIAMETER	EACH	43	32	11											
60224075	MANHOLES, TYPE A, 6'-DIAMETER	EACH	2	2												
60228110	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	11												11	
60238800	INLETS, TYPE A	EACH	2	1	1											
60249110	VALVE VAULTS, 4'-DIAMETER	EACH	11													11
60249120	VALVE VAULTS, 5'-DIAMETER	EACH	32													32
60250200	CATCH BASINS TO BE ADJUSTED	EACH	1	1												
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	6	6												
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	3	3												
60258000	MANHOLES TO BE RECONSTRUCTED (SPECIAL)	EACH	1	1												
60260050	SANITARY MANHOLES TO BE RECONSTRUCTED	EACH	1	1												
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	16	11	5											
60266500	VALVE VAULTS TO BE REMOVED	EACH	17	15	2											
60266600	VALVE BOXES TO BE ADJUSTED	EACH	1		1											
60266910	VALVE BOXES TO BE REMOVED	EACH	8	2	6											

* SPECIALTY ITEM

SUMMARY OF QUANTITIES

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET SHTS.	SHEET NO.
336	99-00243-00-PV 83792	KANE	268	30
SUMMARY OF QUANTITIES				
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE													
				J000-2A ROADWAY STA	J000-2A ROADWAY STU	Y003-TEA LANDSCAPING STU	Y003-TEA LANDSCAPING CITY NON-PART.	Y030-1E LIGHTING STU	Y030-1E LIGHTING CITY NON-PART.	Y031-1F SIGNALS DEAN STREET STU (1)	Y030-1F SIGNALS IL ROUTE 64 STU (2)	Y031-1F SIGNALS INTERCONNECT STU (3)	Y045-BTPW,TEA UNDERPASS STU	Y060 SANITARY CITY NON-PART.(4)	Y060 WATER MAIN CITY NON-PART.(2)		
60402110	GRATES, TYPE 7	EACH	1	1													
60402210	GRATES, TYPE 8	EACH	25	21	4												
60404805	FRAMES AND GRATES, TYPE 11V	EACH	69	60	9												
60404950	FRAMES AND GRATES, TYPE 24	EACH	119	84	35												
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	13	5	8												
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	164	92	31												41
60500040	REMOVING MANHOLES	EACH	42	30	12												
60500050	REMOVING CATCH BASINS	EACH	85	60	25												
60500080	REMOVING CATCH BASINS TO MAINTAIN FLOW	EACH	2	2													
60600605	CONCRETE CURB, TYPE B	FOOT	68	68													
60603500	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06	FOOT	79	79													
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	7,295	6,404	891												
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	17,321	12,064	5,257												
60608300	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12	FOOT	2,282		2,282												
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	1,174	1,174													
60619600	CONCRETE MEDIAN, TYPE SB-6.12	SQ FT	8,261	4,308	3,953												
60624600	CORRUGATED MEDIAN	SQ FT	714	714													
63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	1,406	1,406													
63000025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	32	32													
63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4	4													
63200310	GUARDRAIL REMOVAL	FOOT	565	565													
66410200	CHAIN LINK FENCE (SPECIAL)	FOOT	35	35													
66410300	CHAIN LINK FENCE REMOVAL	FOOT	680	680													
* 66900105	UNDERGROUND STORAGE TANK REMOVAL	EACH	1		1												
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	2,405	1,364	1,041												
* 66900400	SPECIAL WASTE GROUND WATER DISPOSAL	GALLON	188	94	94												
* 66900450	SPECIAL WASTE PLANS AND REPORT	L SUM	1	0.6	0.4												
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	6	3	3												
* 66901000	BACKFILL PLUGS	CU YD	60	30	30												
70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	0.7	0.3												
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	5,700	4,000	1,700												
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	3,690	2,450	1,240												
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	158,310	107,730	50,580												
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	8,770	6,340	2,430												
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1,120	820	300												
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	1,310	1,080	230												
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	6,000	4,000	2,000												
70400100	TEMPORARY CONCRETE BARRIER	FOOT	2,055	2,055													
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,755	1,755													
* 72000100	SIGN PANEL - TYPE 1	SQ FT	553	434	119												
* 72000200	SIGN PANEL - TYPE 2	SQ FT	123	74	49												
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	560	426	134												
* 73100110	BASE FOR TELESCOPING SIGN SUPPORT, SPECIAL	EACH	41	29	12												
78300100	PAVEMENT MARKING REMOVAL	SQ FT	12,000	8,000	4,000												
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1,100	750	350												
* 80400100	ELECTRIC SERVICE INSTALLATION	EACH	3					2							1		
* 80700105	GROUND ROD, 3/4" DIA. X 8 FT.	EACH	78					77							1		
* 81000500	CONDUIT IN TRENCH, 1 1/2" DIA., GALVANIZED STEEL	FOOT	13,065					12,915							150		
* 81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	5,065					60		410	115	4,480					
* 81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	270							70	200						
* 81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	20							20							
* 81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	290					100		20	170						
* 81001100	CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL	FOOT	16							16							
* 81018400	CONDUIT PUSHED, 1 1/2" DIA., GALVANIZED STEEL	FOOT	991					991									
* 81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	195					130				65					
* 81018700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	105														

* SPECIALTY ITEM

SUMMARY OF QUANTITIES

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
CONTRACT NO.		SHTS. NO.	
83782		3E	
SUMMARY OF QUANTITIES			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE													
				J000-2A ROADWAY STA	J000-2A ROADWAY STU	Y003-TEA LANDSCAPING STU	Y003-TEA LANDSCAPING CITY NON-PART.	Y030-1E LIGHTING STU	Y030-1E LIGHTING CITY NON-PART.	Y031-1F SIGNALS DEAN STREET STU (1)	Y031-1F SIGNALS IL ROUTE 64 STU (2)	Y031-1F SIGNALS INTERCONNECT STU (3)	Y045-BTPW,TEA UNDERPASS STU	Y060 SANITARY CITY NON-PART. (1)	Y060 WATER MAIN CITY NON-PART. (2)		
* 81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	1,536					246			580	700	30				
* 81200200	CONDUIT EMBEDDED IN STRUCTURE, 3/4" DIA., PVC	FOOT	202											202			
* 81303000	JUNCTION BOX, POLYESTER, EMBEDDED IN STRUCTURE, 4" X 4" X 3"	EACH	10											10			
* 81400100	HANDHOLE	EACH	17					2			6		9				
* 81400300	DOUBLE HANDHOLE	EACH	7								2	5					
* 81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	18,651					13,001			535	485	4,480	150			
* 81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	10,884					9,820	368					696			
* 81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	19,994					15,274	4,270					450			
* 81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	31,448					31,448									
* 81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	280					280									
* 81702160	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 1/0	FOOT	560					560									
* 82102310	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 310 WATT	EACH	75					75									
* 82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	12					12									
* 82107100	UNDERPASS LUMINAIRE, 70 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	10											10			
* 82500505	LIGHTING CONTROLLER, SPECIAL	EACH	2					2									
* 83008600	LIGHT POLE, ALUMINUM, 40 FT. M.H., 15 FT. MAST ARM	EACH	67					67									
* 83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	840					840									
* 83600215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	36					36									
* 83800105	BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE	EACH	75					75									
* 84200705	LIGHTING FOUNDATION REMOVAL, PARTIAL	EACH	10					10									
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3										3				
* 85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1								1						
* 85700300	FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	1									1					
* 86400100	TRANSCEIVER - FIBER OPTIC	EACH	2								1	1					
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	3,697								1,764	1,933					
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	6,670								3,455	3,215					
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4,886								1,016	3,870					
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	5,289								3,084	2,205					
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,330								1,330						
* 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	187								61	126					
* 87502250	TRAFFIC SIGNAL POST, PAINTED STEEL 10 FT.	EACH	2								2						
* 87502310	TRAFFIC SIGNAL POST, PAINTED STEEL 16 FT.	EACH	6								2	4					
* 87600100	CONCRETE FOUNDATION, TYPE A	FOOT	38								19	19					
* 87600200	CONCRETE FOUNDATION, TYPE D	FOOT	8								4	4					
* 87600415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	120								60	60					
* 87900200	DRILL EXISTING HANDHOLE	EACH	1										1				
* 88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	20								8	12					
* 88500100	INDUCTIVE LOOP DETECTOR	EACH	6								6						
* 88600100	DETECTOR LOOP, TYPE I	FOOT	162								162						
* 88700200	LIGHT DETECTOR	EACH	7								3	4					
* 88700300	LIGHT DETECTOR AMPLIFIER	EACH	2								1	1					
* 88800100	PEDESTRIAN PUSH-BUTTON	EACH	16								8	8					
* 89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2								1	1					
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2								1	1					
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4,330										4,330				
* 89502380	REMOVE EXISTING HANDHOLE	EACH	27								10	13	4				
* 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	18								9	9					
* A2003024	TREE, CELTIS OCCIDENTALIS PRAIRIE PRIDE (PRAIRIE PRIDE HACKBERRY), 3" CALIPER, BALLED AND BURLAPPED	EACH	8					8									
* A2004724	TREE, GLEDITSIA TRIACANTHOS INERMIS SHADEMASTER (SHADEMASTER THORNLESS COMMON HONEYLOCUST), 3" CALIPER, BALLED AND BURLAPPED	EACH	6					6									
* A2005024	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 3" CALIPER, BALLED AND BURLAPPED	EACH	5					5									
* C2005824	SHRUB, RHUS AROMATICA GRO-LOW (GRO-LOW FRAGRANT SUMAC), 2" WIDTH, BALLED AND BURLAPPED	EACH	188					188									
* D2002772	EVERGREEN, PINUS NIGRA (AUSTRIAN PINE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	4					4									
* D2002172	EVERGREEN, PICEA PUNGENS (COLORADO SPRUCE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	9					9									
* D2002272	EVERGREEN, PICEA PUNGENS GLAUCA (COLORADO BLUE SPRUCE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	5					5									
* K1003680	MULCH	SQ YD	1,495					1,495									
* X0300739	UNINTERRUPTIBLE POWER SUPPLY	EACH	2								1	1					

* SPECIALTY ITEM

SUMMARY OF QUANTITIES

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEETS
336	99-00243-00-PV	KANE	268
CONTRACT NO.			3F
83782			
SUMMARY OF QUANTITIES			
F.H.W.A. REG.5 ILLINOIS		PROJECT F-0336(008)	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE													
				J000-2A ROADWAY STA	J000-2A ROADWAY STU	Y003-TEA LANDSCAPING STU	Y003-TEA LANDSCAPING CITY NON-PART.	Y030-1E LIGHTING STU	Y030-1E LIGHTING CITY NON-PART.	Y031-1F SIGNALS DEAN STREET STU (1)	Y031-1F SIGNALS IL ROUTE 64 STU (2)	Y031-1F SIGNALS INTERCONNECT STU (3)	Y045-BTPW,TEA UNDERPASS STU	Y060 SANITARY CITY NON-PART.(1)	Y060 WATER MAIN CITY NON-PART.(2)		
* X0301828	ENGINEERED BARRIER	SQ YD	434	217	217												
X0321556	SANITARY MANHOLES TO BE ADJUSTED	EACH	8	7	1												
X0321558	SANITARY MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	11	6	5												
* X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	540	200	340												
X0322671	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	700	700													
* X0322925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	7,600									7,600					
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	1,422										1,422				
X0632001	CLEAR PROTECTIVE COATING FOR CONCRETE	SQ FT	4,835											4,835			
X0712400	TEMPORARY PAVEMENT	SQ YD	4,000	3,000	1,000												
X0840000	SANITARY SEWER REMOVAL 8"	FOOT	543													543	
X3550215	BITUMINOUS BASE COURSE SUPERPAVE 5 3/4"	SQ YD	1,478	1,478													
X3550515	BITUMINOUS BASE COURSE SUPERPAVE 8 3/4"	SQ YD	8,989		8,989												
X3550615	BITUMINOUS BASE COURSE SUPERPAVE 9 3/4"	SQ YD	6,690	6,690													
X4066424	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N50	TON	474	474													
X4066548	POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "F", N90	TON	5,529	3,214	2,315												
X4066614	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50	TON	200	200													
X4066618	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N90	TON	2,123	905	1,218												
X4066770	LEVELING BINDER (MACHINE METHOD), SUPERPAVE N70	TON	601	318	283												
X4080020	INCIDENTAL BITUMINOUS SURFACING, SUPERPAVE, N50	TON	180	120	60												
X6700410	ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)	CAL MO	20	10	10												
X7015000	CHANGEABLE MESSAGE SIGN	CAL MO	72	36	36												
* X7800500	POLYUREA PAVEMENT MARKING - LETTERS AND SYMBOLS, SPECIAL	SQ FT	1,807	1,286	521												
* X7800510	POLYUREA PAVEMENT MARKING SPECIAL - LINE 4"	FOOT	28,430	21,653	6,777												
* X7800530	POLYUREA PAVEMENT MARKING SPECIAL - LINE 6"	FOOT	7,720	5,678	2,042												
* X7800540	POLYUREA PAVEMENT MARKING SPECIAL - LINE 8"	FOOT	475	475													
* X7800550	POLYUREA PAVEMENT MARKING SPECIAL - LINE 12"	FOOT	1,883	1,828	55												
* X7800580	POLYUREA PAVEMENT MARKING SPECIAL - LINE 24"	FOOT	688	555	133												
* X8050010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	2								1	1					
* X8710020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	7,962									7,962					
* X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1,798							832	966						
* X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	1,934							654	1,280						
* X8801310	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	12							2	10						
* X8801395	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2								2						
* X8801460	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	8							6	2						
* X8801437	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3-SECTION, 1-5-SECTION, BRACKET MOUNTED	EACH	6							2	4						
* X8801447	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2							2							
* X8810610	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	14							6	8						
* X8810630	PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED	EACH	2							2							
* XX000739	CURB STOP & BOX 1 INCH	EACH	9														9
* XX002856	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	L SUM	1										1				
* XX002956	PARTIAL BUILDING REMOVAL AND RECONSTRUCTION	L SUM	1		1												
XX003503	FLARED END SECTION REMOVAL	EACH	21		21												
* XX003553	VIDEO TRANSMISSION SYSTEM	EACH	1										1				
* XX003651	ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	85									85					
* XX003885	IRRIGATION SYSTEM	L SUM	1					1									
* XX004558	RAILROAD FLAGMEN	UNIT	50,000		50,000												
XX004852	BITUMINOUS DRIVEWAY PAVEMENT, SUPERPAVE	SQ YD	2,988		2,988												
XX005078	CATCH BASINS, TYPE C, 2' DIAMETER	EACH	32		32												
XX005472	DRAINAGE STRUCTURE SPECIAL	EACH	1		1												
Z0000990	AGGREGATE FOR TEMPORARY ACCESS	TON	4,000		4,000												
Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	60,342		60,342												
Z0002600	BAR SPLICERS	EACH	298										298				
* Z0007601	BUILDING REMOVAL NO. 1	L SUM	1		1												
* Z0007602	BUILDING REMOVAL NO. 2	L SUM	1		1												
Z0013798	CONSTRUCTION LAYOUT	L SUM	1		1												
Z0013825	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	1,000		1,000												

* SPECIALTY ITEM

SUMMARY OF QUANTITIES

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEETS
336	99-00243-00-PV	KANE	268
CONTRACT NO. 83782			36
SUMMARY OF QUANTITIES			
F.H.W.A. REG.5	ILLINOIS	PROJECT F-0336(008)	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE												
				J000-2A ROADWAY STA	J000-2A ROADWAY STU	Y003-TEA LANDSCAPING STU	Y003-TEA LANDSCAPING CITY NON-PART.	Y030-1E LIGHTING STU	Y030-1E LIGHTING CITY NON-PART.	Y031-1F SIGNALS DEAN STREET STU (1)	Y031-1F SIGNALS IL ROUTE 84 STU (2)	Y031-1F SIGNALS INTERCONNECT STU (3)	Y045-BTPW,TEA UNDERPASS STU	Y060 SANITARY CITY NON-PART.(1)	Y060 WATER MAIN CITY NON-PART.(2)	
Z0019800	DUST CONTROL WATERING	UNIT	400		400											
Z0022800	FENCE REMOVAL	FOOT	50		50											
Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4		4											
Z0030330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	EACH	3		3											
Z0048865	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1		1											
* Z0059600	SANITARY SEWER, TYPE 2 8"	FOOT	394												394	
* Z0060800	SANITARY SEWER, TYPE 3 6"	FOOT	164												164	
* Z0060900	SANITARY SEWER, TYPE 3 8"	FOOT	204												204	
Z0076600	TRAINEES	HOUR	3,000		3,000											
Δ XX006195	STABILIZED BICYCLE PATH	SQ YD	670		670											
XX006255	HIGH-EARLY-STRENGTH PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	3,609		3,609											
* XX006256	BITUMINOUS SURFACE REMOVAL FOR RECESSED PAVEMENT MARKING, 0.025 INCH DEPTH	SQ FT	10,184		10,184											
* XX006256	CONCRETE SURFACE REMOVAL FOR RECESSED PAVEMENT MARKING, 0.025 INCH DEPTH	SQ FT	6,693		6,693											
* XX006257	RECESSED REFLECTIVE PAVEMENT MARKER	EACH	727		727											
* XX006258	STEEL CASING PIPE 18"	FOOT	125													125
* XX006259	STEEL CASING PIPE 20"	FOOT	388													388
* XX006260	STEEL CASING PIPE AUGURED AND JACKED 18"	FOOT	60													60
* XX006261	STEEL CASING PIPE AUGURED AND JACKED 20"	FOOT	632													632
* XX006262	STEEL CASING PIPE AUGURED AND JACKED 24"	FOOT	250													250
* XX006263	STEEL CASING PIPE AUGURED AND JACKED 30"	FOOT	25													25
* XX006264	DUCTILE IRON RAW WATER DISTRIBUTION MAIN 6"	FOOT	10													10
* XX006264	DUCTILE IRON RAW WATER DISTRIBUTION MAIN 12"	FOOT	2,756													2,756
* XX006265	CURB STOP & BOX 1 1/2 INCHES	EACH	1													1
* XX006266	LIGHT POLE, ALUMINUM, 40 FT. M.H., 15 FT. MAST ARM WITH FESTOON OUTLET	EACH	8					8								
* XX006267	UNDERPASS CONTROL INSTALLATION, SPECIAL	EACH	1											1		
* XX006268	MAINTAIN EXISTING TRAFFIC SIGNAL INTERCONNECT	L SUM	1										1			
* XX006269	ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 16, 5 1/2 PAIR	FOOT	2,280							1,120	1,140					
* XX006270	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT. WITH 15 FT. LIGHTING ARM AT 40 FT. MOUNTING HEIGHT	EACH	1								1					
* XX006271	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT. WITH 15 FT. LIGHTING ARM AT 40 FT. MOUNTING HEIGHT	EACH	1								1					
* XX006272	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT. WITH 15 FT. LIGHTING ARM AT 40 FT. MOUNTING HEIGHT	EACH	2								2					
* XX006273	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT. WITH DUAL 15 FT. LIGHTING ARM AT 45 FT. MOUNTING HEIGHT	EACH	1									1				
* XX006274	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT. WITH DUAL 15 FT. LIGHTING ARM AT 45 FT. MOUNTING HEIGHT	EACH	1									1				
* XX006275	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 55 FT. WITH DUAL 15 FT. LIGHTING ARM AT 45 FT. MOUNTING HEIGHT	EACH	2									2				
* XX006275	VIDEO DETECTION SYSTEM (COMPLETE INTERSECTION)	EACH	2								1	1				
* XX006276	REMOTE CONTROLLED VIDEO SYSTEM	EACH	1									1				
XX006276	STORM SEWERS, CLASS A, PRESSURE PIPE, TYPE 3 60"	FOOT	418		418											
XX006276	TEMPORARY SEDIMENT TRAP	EACH	1		1											
XX006277	STORM SEWERS, PVC, TYPE 1 6"	FOOT	20		20											
XX006278	STORM SEWERS, PVC, TYPE 1 8"	FOOT	35		35											
XX006279	PERIMETER EROSION BARRIER WITH WIRE SUPPORT	FOOT	367		367											
XX006280	STORM SEWERS, DUCTILE IRON, TYPE 1 10"	FOOT	9		9											
XX006281	STORM SEWERS, DUCTILE IRON, TYPE 1 12"	FOOT	170		170											
XX006282	STORM SEWERS, DUCTILE IRON, TYPE 2 12"	FOOT	168		168											
XX006283	STORM SEWERS, DUCTILE IRON, TYPE 2 18"	FOOT	122		122											
XX006284	PERIMETER EROSION BARRIER (SPECIAL)	FOOT	2,395		2,395											
XX006285	SPLIT FLOW JUNCTION STRUCTURE	EACH	1		1											
XX006286	PERFORATED RISER	L SUM	1		1											
XX006287	DRAINAGE STRUCTURES, TYPE 3 (MODIFIED)	EACH	1		1											
XX006288	FRAMES AND GRATES, SPECIAL (SPL1)	EACH	3		3											
XX006289	MANHOLES, TYPE A, 7-DIAMETER	EACH	14		14											
XX006290	FRAMES AND GRATES, SPECIAL	EACH	2		2											
* 64105780	FRAXINUS AMERICANA 'AUTUMN APPLAUSE' (AUTUMN APPLAUSE WHITE ASH)	EACH	6						6							
* XX006292	GINKGO BILOBA 'AUTUMN GOLD' (AUTUMN GOLD MAIDENHAIR TREE)	EACH	1						1							
* XX006293	QUERCUS BICOLOR (SWAMP WHITE OAK)	EACH	4						4							
* XX006294	QUERCUS ROBUR (ENGLISH OAK)	EACH	4						4							
* XX006295	QUERCUS RUBRA (RED OAK)	EACH	10						10							

Δ Y080
 * SPECIALTY ITEM

SUMMARY OF QUANTITIES

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEETS
336	99-00243-00-PV	KANE	268
CONTRACT NO.			3H
83782			
SUMMARY OF QUANTITIES			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE													
				J000-2A ROADWAY STA	J000-2A ROADWAY STU	Y003-TEA LANDSCAPING STU	Y003-TEA LANDSCAPING CITY NON-PART.	Y030-1E LIGHTING STU	Y030-1E LIGHTING CITY NON-PART.	Y031-1F SIGNALS DEAN STREET STU (1)	Y031-1F SIGNALS IL ROUTE 64 STU (2)	Y031-1F SIGNALS INTERCONNECT STU (3)	Y045-BTPW,TEA UNDERPASS STU	Y060 SANITARY CITY NON-PART.(1)	Y060 WATER MAIN CITY NON-PART.(2)		
* X1006296	QUERCUS RUBRA (RED OAK)	EACH	10														
* X1006297	ULMUS X 'MORTON GLOSSY' (TRIUMPH ELM)	EACH	6														
* X1006298	ULMUS X 'MORTON STALWART' (COMMENDATION ELM)	EACH	4														
* X1006299	ARONIA MELANOCARPA 'MORTON' (IROQUOIS BEAUTY BLACK CHOKEBERRY)	EACH	108														
* X1006300	BERBERIS THUNBERGII 'BAILONE' (RUBY CAROUSEL BARBERRY)	EACH	229														
* X1006301	KERRIA JAPONICA (JAPANESE KERRIA)	EACH	98														
* X1006302	NEPETA X FAASSENII 'WALKERS LOW' (WALKERS LOW CATMINT)	EACH	61														
* X1006303	ROSA RUGOSA 'FOX' PAVEMENT' (PINK PAVEMENT ROSE)	EACH	28														
* X1006304	ROSA RUGOSA 'SCARLET PAVEMENT' (RED PAVEMENT ROSE)	EACH	26														
* X1006305	ROSA RUGOSA 'SNOW PAVEMENT' (WHITE PAVEMENT ROSE)	EACH	28														
* X1006306	SPIREA X BUMALDA 'MAGIC CARPET' (MAGIC CARPET SPIREA)	EACH	161														
* X1006307	BOUTELOUA CURTIPENDULA (SIDE OATS GRAMMA)	EACH	279														
* X1006308	CAREX MUSKINGUMENSIS (PALM SEDGE), 1 GAL GRASSES	EACH	58														
* X1006309	CAREX MUSKINGUMENSIS 'OEHRME' (VARIEGATED PALM SEDGE)	EACH	34														
* X1006310	MISCANTHUS SINENSIS 'GRAZIELLA' (JAPANESE SILVER GRASS)	EACH	18														
* X1006311	MISCANTHUS SINENSIS 'STRICTUS' (PORCUPINE GRASS)	EACH	70														
* X1006312	MOLINIA ARUNDINACEA 'TRANSPARENT' (TALL MOOR GRASS)	EACH	39														
* X1006313	MOLINIA CAERULEA 'MOORHEX' (PURPLE MOOR GRASS)	EACH	77														
* X1006314	PANICUM VIRGATUM 'HEAVY METAL' (BLUE SWITCH GRASS)	EACH	97														
* X1006315	SCHIZACHYRIUM SCOPARIUM (LITTLE BLUESTEM)	EACH	80														
* X1006316	SESLARIA AUTUMNALIS (AUTUMN MOOR GRASS)	EACH	112														
* X1006317	SORGHASTRUM NUTANS (INDIAN GRASS)	EACH	29														
* X1006318	SPOROBOLUS HETEROLEPIS (PRAIRIE DROPSEED)	EACH	291														
* X1006319	ALLIUM SCHIENOPRASUM 'FORESCATE' (ORNAMENTAL ONION)	EACH	71														
* X1006320	ALLIUM TANGUTICUM 'SUMMER BEAUTY' (GLOBE LILY)	EACH	83														
* X1006321	ASCLEPIAS TUBEROSA, 1 GAL	EACH	61														
* X1006322	ECHINACEA PALLIDA (PURPLE CONEFLOWER)	EACH	114														
* X1006323	HEMEROCALLIS 'CHICAGO APACHE' (CHICAGO APACHE DAYLILY)	EACH	117														
* X1006324	HEMEROCALLIS 'HAPPY RETURNS', 1 GAL	EACH	729														
* X1006325	RUDBECKIA HIRTA (BLACK-EYED SUSAN)	EACH	114														
* X1006326	SEDUM 'AUTUMN JOY' (AUTUMN JOY SEDUM) 1 GAL	EACH	68														
* X1006327	SOLIDAGO NEMORALIS (GOLDENROD)	EACH	131														
* X1006328	NARCISSUS SPP. (MIXED DAFFODILS)	EACH	3,760														
* X1006329	PLANTING SOIL AMENDMENT	SQ YD	1,495														
* X1006330	1" PVC SCHEDULE 40 PIPE 2"	FOOT	120														
* X1006331	1" TYPE K COPPER PIPE 2"	FOOT	70														
* X1006332	WATER METER 2"	EACH	2														
* X1006333	WATER VALVES 2"	EACH	2														
* X1006334	RPZ BACKFLOW PREVENTER 2"	EACH	2														
* X1006335	RPZ ENCLOSURE 2"	EACH	2														
67100100	MOBILIZATION	LSUM	1														

Revised 6-8-05
 (CODE NO, SEQUENCE)

* SPECIALTY ITEM

WATER MAIN APPURTENANCES																						
WATER VALVE 4" (EACH)	WATER VALVE 6" (EACH)	WATER VALVE 8" (EACH)	WATER VALVE 10" (EACH)	WATER VALVE 12" (EACH)	WATER VALVE 16" (EACH)	TAP VALVE & SLEEVE, 6" (EACH)	TAP VALVE & SLEEVE, 12" (EACH)	ADJ WM (FOOT)	WATER SERV LINE 1" (FOOT)	WATER SERV LINE 1-1/2" (FOOT)	CURB STOP AND BOX (EACH)	FH TO BE MOVED (EACH)	FH TO BE ADJ (EACH)	FH TO BE REM (EACH)	FH WITH AUX V & VB (EACH)	VV TA 4 DIA T1F CL (EACH)	VV TA 5 DIA T1F CL (EACH)	VALVE BOX ADJ (EACH)	VV ADJ (EACH)	VV ADJ NEW T1F CL (EACH)	VV REM (EACH)	VALVE BOX REM (EACH)
30+90 58 LT	24+45 55 LT	22+00 55 RT	24+86 55 LT	16+00 75 RT	33+39 77 RT	57+40 55 LT	58+90 26 RT	246+59 30	24+77 20	42+85 20	24+77 58 LT	503+83 27 RT	41+28 75 LT	04+58 80 LT	16+07 46 LT	22+00 55 RT	16+00 75 RT	336+39 31 RT	331+86 31 RT	11+30 67 LT	17+40 59 LT	350+96 44 LT
353+82 52 LT	25+28 66 LT	31+15 58 LT	24+80 57 RT	16+20 75 RT	33+59 79 RT				35+05 20	42+85 20	35+05 63 LT		337+43 36 LT	17+05 51 LT	16+35 100 RT	24+45 55 LT	16+20 75 RT		331+96 32 RT	11+43 73 LT	18+64 60 LT	352+45 51 LT
	32+25 58 LT		29+44 58 LT	18+10 50 RT	38+40 79 RT				37+33 20	38+40 79 RT	37+33 63 LT			20+34 57 LT	20+50 58 RT	25+28 66 LT	18+10 50 RT		41+49 84 LT	250+62 22 LT	352+53 60 LT	
	33+63 62 LT		32+40 56 LT	18+50 45 RT	41+30 71 RT				37+39 20	37+39 63 LT	37+39 63 LT			24+70 53 LT	24+50 53 RT	30+90 58 LT	18+50 45 RT			58+09 53 LT	22+27 62 LT	345+64 49 LT
	37+17 62 LT		355+22 48 RT	24+40 63 RT	343+00 44 RT				345+60 20	343+00 44 RT	42+85 74 RT			12+68 53 LT	24+55 50 LT	31+15 58 LT	24+40 63 RT			58+14 48 LT	23+45 62 LT	41+56 60 RT
	343+95 44 RT			30+40 79 RT	348+95 56 RT				347+05 145		345+60 51 LT			28+90 52 LT	28+50 84 RT	32+25 58 LT	24+80 57 RT			58+16 73 LT	25+33 61 LT	353+77 44 LT
				33+29 58 LT					352+50 20		347+05 50 LT			33+49 69 LT	28+00 53 LT	33+63 62 LT	24+86 55 LT			58+22 25 RT	15+18 58 LT	355+22 26 RT
				33+29 79 RT					352+64 20		352+50 63 LT			37+23 67 LT	32+50 84 RT	37+17 62 LT	29+44 58 LT			60+77 52 RT	29+49 62 LT	19+97 63 LT
				33+49 73 RT					353+67 20		352+64 61 LT			57+85 58 LT	33+49 69 LT	57+40 55 LT	30+40 79 RT			60+87 30 RT	30+96 63 LT	
				33+70 60 LT							353+67 53 LT			336+31 25 RT	36+50 84 RT	343+95 44 RT	32+40 56 LT			61+04 26 RT	31+05 63 LT	
				41+40 69 LT										337+43 36 LT	37+60 66 LT	353+82 52 LT	33+29 58 LT			252+19 23 LT	32+32 64 LT	
				47+30 78 RT										341+11 39 RT	38+30 87 RT		33+29 79 RT			336+00 31 RT	33+33 64 LT	
				53+30 75 RT										350+92 54 LT	40+50 76 RT		33+39 77 RT			336+53 31 RT	33+53 64 LT	
				56+95 76 RT											44+55 76 RT		33+49 73 RT			358+44 27 RT	38+33 60 LT	
				250+76 38 LT											47+40 73 RT		33+59 79 RT				38+77 65 LT	
				351+50 60 LT											50+30 70 RT		33+70 60 LT				352+40 40 LT	
				355+50 44 RT											53+20 70 RT		38+40 79 RT				343+90 34 LT	
				358+40 43 RT											56+85 62 RT		41+30 71 RT					
				358+50 46 RT											57+40 66 LT		41+40 69 LT					
				504+50 25 RT											58+73 63 RT		47+30 78 RT					
															336+60 38 RT		53+30 75 RT					
															339+40 43 RT		56+95 76 RT					
															339+83 46 LT		58+90 26 RT					
															342+92 53 RT		250+76 39 LT					
															345+70 51 LT		343+00 44 RT					
															346+50 65 RT		348+95 56 RT					
															350+87 67 LT		351+50 60 LT					
															353+45 56 LT		355+22 48 RT					
															354+90 47 RT		355+50 44 RT					
															358+30 43 RT		358+40 43 RT					
															504+60 25 RT		358+50 48 RT					
																	504+50 25 RT					
2	6	2	5	20	6	1	1	30	305	20	10	1	2	13	31	11	32	1	2	14	17	8

TREE REMOVAL			
LOCATION	REF	TREE REM 6-15 (UNITS)	TREE REM OVER 15 (UNITS)
12+76	88 RT	14	
12+96	87 RT	14	
13+27	91 RT		22
13+72	91 RT	24	
14+01	91 RT	8	
14+24	93 RT	6	
14+85	92 RT	6	
27+11	61 LT	6	
33+75	20 RT	10	
34+57	21 RT	10	
41+65	17 RT	8	
43+17	65 LT	12	
44+00	64 LT	12	
51+15	61 LT	6	
51+55	60 LT	6	
250+91	47 LT	10	
252+00	38 LT	6	
252+25	38 LT		22
252+29	34 RT		16
336+10	39 RT	8	
342+71	33 RT	12	
343+33	35 RT	8	
343+51	41 LT		38
343+95	37 RT	6	
344+23	44 LT	7	
344+58	39 RT	8	
345+12	50 LT	6	
345+31	51 LT		16
345+72	52 LT		16
345+80	50 LT	6	
348+00	50 RT	6	
348+75	35 RT	6	
353+66	40 LT	8	
355+05	37 LT	6	
358+61	33 RT	6	
TOTAL		251	130

BITUMINOUS SURFACE REMOVAL AND PAVEMENT PATCH							
LOCATION	BIT SURF REM BUTT JT (SQ YD)	BIT SURF REM 2" (SQ YD)	BIT SURF REM VAR DEPTH (SQ YD)	CL D PATCH TY IV, 10" (SQ YD)	CL D PATCH TY II, 14" (SQ YD)	CL D PATCH TY III, 14" (SQ YD)	CL D PATCH TY IV, 14" (SQ YD)
RANDALL ROAD							
1+00 - 5+50		3938					
5+50 - 10+50		542	3089		22		
10+50 - 15+50			2788		17		
15+50 - 21+50			3967				78
21+50 - 26+50			367			18	
26+50 - 31+50							
31+50 - 36+50							
36+50 - 41+50							
41+50 - 46+50							
46+50 - 51+50							
51+50 - 56+50							
56+50 - 61+50		360	1542				131
61+50 - 64+50	307		929		6		
IL ROUTE 64							
331+60 - 337+00		1377	1185				58
337+00 - 342+25			1098				41
342+25 - 347+25							
347+25 - 349+07							
350+95 - 353+25							
353+25 - 358+25						79	72
358+25 - 365+20		2335			11	20	26
DEAN STREET							
244+30 - 248+90		1272		39			
250+90 - 254+30	160		1199	40			
TOTAL	467	9,824	16,064	79	56	117	406

CASING PIPES							
STATION	STATION	STL CASING 18" (FOOT)	STL CASING 20" (FOOT)	STL CASING AUG & JACK 16" (FOOT)	STL CASING AUG & JACK 20" (FOOT)	STL CASING AUG & JACK 24" (FOOT)	STL CASING AUG & JACK 30" (FOOT)
16+10 62 RT	16+10 38 RT				100		
16+79 56 RT	16+90 45 RT		15				
16+90 45 RT	17+18 45 RT		28				
22+40 63 RT	23+40 63 RT				100		
22+74 73 RT	22+99 73 RT						25
23+68 63 RT	23+93 63 RT		25				
26+37 79 RT	26+87 79 RT		50				
24+80 52 LT	24+80 53 RT	105					
26+92 57 LT	27+12 57 LT	20					
31+90 78 RT	32+10 78 RT		20				
33+39 55 LT	33+39 60 RT						
41+40 65 LT	41+40 65 RT			110		115	
38+55 73 RT	39+95 73 RT			140			
38+57 79 RT	39+92 79 RT					135	
41+48 71 RT	42+78 71 RT		130				
55+50 76 RT	55+80 76 RT		30				
343+95 34 LT	343+95 26 RT			60			
354+45 42 LT	354+45 40 RT			82			
500+55 48 LT	501+27 23 RT			100			
501+81 25 RT	502+21 25 RT		40				
503+39 25 RT	503+69 25 RT		30				
		125	368	60	632	250	25

SANITARY SEWER					
LOCATION	SAN SEW REM 8" (FOOT)	SAN SEW T2 8" (FOOT)	SAN SEW T3 6" (FOOT)	SAN SEW T3 8" (FOOT)	TRENCH BACKFILL (CU YD)
25+30, 46 RT - 25+55, 69 RT				34	15.9
25+55, 69 RT - 27+25, 69 RT				170	0.0
31+80 35 RT - 33+13, 35 RT	133				
31+80, 71 RT - 31+80, 35 RT		36			5.7
31+80, 35 RT - 31+80, 8 RT		27			18.4
31+80, 8 RT - 33+11, 8 RT		131			114.4
33+11, 8 RT - 33+13, 35 RT	27				

STRUCTURE ADJUSTMENT, REMOVAL, AND FILL										
CB ADJ NEW T1F OL (EACH)	CB REC NEW T1F CL (EACH)	MH REC (EACH)	MH REC SPECIAL (EACH)	REM MH (EACH)	REM CB (EACH)	REM CB TO MAINT FLOW (EACH)	SAN MH ADJ (EACH)	SAN MH ADJ NEW T1F CL (EACH)	SAN MH REC (EACH)	FES REM (EACH)
RANDALL ROAD										
11+23 74 LT	18+50 50 LT	20+33 48 LT	17+53 66 LT	14+32 40 LT	11+49 35 RT	37+45 62 LT	24+37 16 RT	26+95 26 RT	30+37 37 RT	11+18 62 LT
	25+84 47 LT	28+33 49 LT		20+36 29 RT	11+53 35 LT	250+55 29 LT	28+40 46 RT	33+07 42 LT		11+18 73 RT
	33+01 63 LT	43+30 65 LT		23+17 43 LT	12+81 37 LT		57+97 42 RT	38+64 23 RT		11+48 65 RT
	60+99 24 RT			23+17 26 RT	14+33 45 LT		57+98 75 LT	41+61 23 RT		11+54 62 LT
	62+11 28 RT			24+37 23 RT	16+90 46 RT		249+32 46 RT	56+01 39 RT		16+34 55 LT
	251+39 28 LT			25+32 22 RT	18+34 23 RT		250+64 44 LT	246+21 30 LT		16+69 53 RT
				26+79 18 RT	20+33 41 LT		250+87 38 RT	345+97 38 LT		16+79 54 RT
				28+29 17 RT	20+36 23 RT		339+12 39 LT	349+54 37 LT		21+41 40 RT
				29+79 17 RT	23+17 37 LT			350+69 59 LT		22+50 45 RT
				30+16 53 LT	23+17 16 RT			355+43 38 LT		23+12 62 LT
				31+38 15 RT	23+52 46 RT			359+43 33 LT		23+13 41 RT
				31+42 54 LT	24+50 39 LT					62+11 42 RT
				32+78 17 RT	25+32 15 RT					333+65 31 LT
				32+97 54 LT	25+74 39 LT					334+99 26 LT
				33+13 35 RT	25+84 39 LT					337+17 30 RT
				34+39 36 RT	26+73 39 LT					337+16 28 RT
				34+69 20 RT	26+82 15 RT					338+75 32 LT
				35+69 59 LT	28+31 13 RT					340+16 32 RT
				35+72 6 RT	28+33 41 LT					340+59 33 RT
				37+89 7 RT	29+64 59 LT					341+42 41 LT
				38+56 8 RT	29+79 11 RT					341+42 42 RT
				39+76 55 LT	30+05 61 LT					
				39+76 30 RT	30+14 43 LT					
				39+91 30 RT	31+38 9 RT					
				40+24 77 RT	31+40 46 LT					
				43+28 20 RT	32+77 11 RT					
				46+26 17 RT	34+72 14 RT					
				49+26 19 RT	35+73 22 RT					
				58+57 32 RT	35+76 14 RT					
				245+98 24 LT	35+81 54 LT					
				338+95 22 RT	36+92 14 RT					
				340+93 43 RT	37+23 54 LT					
				341+24 23 RT	37+38 54 LT					
				342+46 39 RT	38+14 62 LT					
				342+51 32 LT	38+56 17 RT					
				342+57 33 RT	39+82 35 RT					
				343+24 34 RT	40+91 14 RT					
				344+79 35 RT	42+18 19 RT					
				350+63 42 LT	43+28 54 LT					
				351+76 35 RT	46+26 47 LT					
				353+28 35 RT	46+26 9 RT					
				358+51 37 RT	49+26 42 LT					
					49+26 9 RT					
					49+26 29 RT					
					52+26 47 LT					
					52+26 13 RT					
					52+27 23 RT					
					53+24 23 RT					
					54+55 27 RT					
					54+59 15 RT					
					54+61 46 LT					
					58+52 32 RT					
					58+91 69 RT					
					63+11 30 RT					
					245+98 17 LT					
					247+99 20 LT					
					247+99 25 LT					
					248+90 30 LT					
					251+47 19 LT					
					251+47 23 RT					
					333+76 30 LT					
					334+65 33 LT					
					338+86 28 LT					
					344+75 38 LT					
					344+78 28 RT					
					347+36 30 RT					
					347+40 36 RT					
					347+60 38 LT					
					350+79 52 RT					
					350+79 46 RT					
					351+68 31 RT					
					351+71 40 LT					
					351+72 37 LT					
					352+53 32 RT					
					352+53 36 LT					
					353+35 32 RT					
					353+43 36 LT					
					354+36 35 LT					
					354+56 33 RT					
					357+46 30 LT					
					357+73 25 RT					
					358+78 36 RT					
					358+85 28 LT					
					380+16 27 LT					
					380+26 27 RT					
1	6	3	1	42	85	2	8	11	1	21

STORM SEWER REMOVAL										
LOCATION	SS REM 12" (FOOT)	SS REM 15" (FOOT)	SS REM 18" (FOOT)	SS REM 24" (FOOT)	SS REM 27" (FOOT)	SS REM 30" (FOOT)	SS REM 36" (FOOT)	SS REM 42" (FOOT)	SS REM 60" (FOOT)	
11+18 LT - 11+18 RT									135	
11+53 LT - 11+54 LT	27									
11+48 RT - 11+50 RT	30									
12+81 LT - 14+32 LT	151									
14+32 LT - 14+33 LT	5									
14+32 LT - 16+34 LT	202									
16+43 RT - 16+58 RT	40									
16+89 RT - 17+53 LT						137				
16+79 RT - 16+89 RT	10									
17+28 LT - 17+51 LT				30						
18+34 RT - 20+36 RT	202									
20+33 LT - 20+33 LT		7								
20+36 RT - 20+36 RT	7									
20+36 RT - 21+41 RT	105									
22+22 LT - 22+52 LT								30		
22+51 RT - 22+51 RT									26	
23+12 LT - 23+12 LT						19				
23+17 LT - 23+17 LT	5									
23+17 LT - 23+81 LT					64					
23+17 RT - 24+36 RT					119					
24+36 RT - 24+37 RT	7									
24+36 RT - 25+32 RT					96					
24+50 LT - 24+50 LT	6									
25+32 RT - 25+32 RT	7									
25+32 RT - 26+79 RT					147					
25+74 RT - 25+84 LT	13									
25+84 LT - 25+84 LT	8									
26+73 LT - 26+73 LT	9									
26+79 RT - 26+82 RT	5									
26+79 RT - 28+29 RT			150							
28+29 RT - 28+31 RT	5									
28+29 RT - 29+79 RT			150							
28+33 LT - 28+33 LT	8									
28+33 LT - 30+15 LT			182							
29+64 LT - 30+05 LT	41									
29+79 RT - 29+79 RT	7									
29+79 RT - 31+38 RT			159							
30+05 LT - 30+15 LT	12									
30+14 LT - 30+15 LT	10									
30+15 LT - 30+51 LT	41									
30+15 LT - 31+42 LT			127							
31+38 RT - 31+38 RT	6									
31+38 RT - 32+78 RT			140							
31+40 LT - 31+42 LT	8									
31+42 LT - 32+97 LT			155							
32+77 RT - 32+78 RT	6									
32+78 RT - 34+69 RT	192									
32+97 LT - 33+01 LT	10									
34+69 RT - 34+69 RT	40									
34+69 RT - 34+72 RT	7									
35+69 LT - 38+14 LT			246							
35+69 RT - 35+72 RT				65						
35+72 RT - 35+72 RT								16		
35+72 RT - 35+73 RT								60		
35+72 RT - 35+76 RT	4									
35+72 RT - 37+89 RT								217		
35+82 LT - 35+82 LT	4									
36+92 RT - 36+92 RT	8									
37+23 LT - 37+23 LT	4									
37+36 LT - 37+38 LT	4									
37+89 RT - 37+89 RT	76									
37+89 RT - 38+56 RT								67		
38+14 LT - 38+86 LT			84							
38+56 RT - 38+56 RT	8									
39+76 LT - 39+86 LT		20								
39+86 LT - 39+82 LT		6								
39+92 LT - 43+30 LT		339								
39+91 RT - 43+28 RT								337		
40+83 RT - 40+83 RT	12									

STORM SEWER REMOVAL										
LOCATION	SS REM 12" (FOOT)	SS REM 15" (FOOT)	SS REM 18" (FOOT)	SS REM 24" (FOOT)	SS REM 27" (FOOT)	SS REM 30" (FOOT)	SS REM 36" (FOOT)	SS REM 42" (FOOT)	SS REM 60" (FOOT)	
43+28 RT - 46+26 RT									298	
46+26 LT - 46+26 RT	56									
46+26 RT - 46+26 RT	8									
46+26 RT - 49+26 RT									300	
49+26 LT - 49+26 RT	52									
49+26 RT - 49+26 RT	9									
49+25 RT - 49+26 RT	9									
49+26 RT - 52+27 RT									301	
52+26 LT - 52+26 RT	60	</								

SIDEWALK				
LOCATION	REF	PCC SIDEWALK 5" (SQ FT)	PCC SIDEWALK 8" (SPECIAL) (SQ FT)	PCC SIDEWALK REMOVAL (SQ FT)
250+05 - 254+38	LT	1,907		1,775
SE CORNER DEAN/RANDALL	LT	188		
17+74 - RR	RT	4,080		
RR - 39+39	RT	12,888		750
NE CORNER IL 64/RANDALL	LT	550		380
39+39 - 42+48	RT	2,132		1,893
39+39 - 41+01	LT		609	778
41+01 - 58+08	LT	8,966		488
42+48 - 53+59	RT	8,640		765
53+59 - 58+08	RT	2,968		
58+08 - 59+80	RT	754		
59+80 - 61+45	RT	585		350
250+91 - 251+62	LT	250		410
251+62 - 252+87	LT	360		625
252+87 - 254+38	LT	890		965
331+60 - 333+94	LT	1,329		
332+23 - 337+40	RT	3,427		
333+94 - 335+28	LT	700		
335+28 - 337+06	LT	1,008		
337+06 - 339+39	LT	1,358		
337+47 - 340+37	RT	1,841		
339+39 - 343+98	LT	2,958		
340+37 - 342+32	RT	1,103		
342+32 - 348+14	RT	3,675		235
343+98 - 346+30	LT	1,337		
346+30 - 347+33	LT	462		
347+33 - 349+07	LT	1,259		720
348+14 - 349+07	RT	700		465
350+95 - 352+54	LT	1,350		834
350+95 - 352+10	RT		785	732
352+10 - 352+80	RT	370		420
352+54 - 356+86	LT	2,898		2,160
352+80 - 353+67	RT	420		435
353+67 - 354+25	RT	224		290
354+25 - 354+91	RT	266		280
354+91 - 355+93	RT	350		425
355+93 - 356+64	RT	200		200
356+64 - 357+47	RT	260		260
356+86 - 360+48	LT	2,289		1,810
357+47 - 358+98	RT	590		
360+48 - 361+18	LT	265		350
TOTAL		75,757	1,394	18,795
STA. 43+06 - 43+30	RT		300 SQ FT - PCC SIDEWALK, 8"	

CURB AND GUTTER									
LOCATION	REF	CURB REM (FOOT)	COMB C&G REM (FOOT)	CONC CURB TY B (FOOT)	COMB CONC C&G TY B-6.06 (FOOT)	COMB CONC C&G TY B-6.12 (FOOT)	COMB CONC C&G TY B-6.24 (FOOT)	COMB CONC C&G TY M-2.12 (FOOT)	
RANDALL ROAD									
1+00 - 5+50	LT								
	RT								
5+50 - 10+50	LT		417				430		
	RT		417				430		
10+50 - 15+50	LT		500				500		
	RT		190		15		505		
15+50 - 21+50	LT		518		38	23	629		
	RT		473		41	23	643		
21+50 - 26+50	LT		695			708	484		
	RT		491			484	484		
26+50 - 31+50	LT		530			554	500		
	RT		500			500	500		
31+50 - 36+50	LT		483			563	500		
	RT		540			444	502		
36+50 - 41+50	LT		782			28	418		
	RT		573				409		
41+50 - 46+50	LT		940			322	502		
	RT		677			383	500		
46+50 - 51+50	LT		500			500	500		
	RT		500			500	500		
51+50 - 56+50	LT		500			352	500		
	RT		544			353	500		
56+50 - 61+50	LT		206				188		
	RT		719	68		370	450		
61+50 - 64+50	LT								
	RT		250				250		
IL ROUTE 64									
331+60 - 337+00	LT		261				87	350	
	RT		15					388	
337+00 - 342+25	LT		267					525	245
	RT		74			165		525	245
342+25 - 347+25	LT		647			185		500	419
	RT		500			23		505	420
347+25 - 349+07	LT		274			77		187	
	RT		340			78		183	
350+95 - 353+25	LT		268					230	
	RT	72	254			54		235	
353+25 - 358+25	LT		530					503	425
	RT		644				118	500	424
358+25 - 365+20	LT		293					293	55
	RT		444			104		353	49
DEAN STREET									
244+30 - 248+90	LT		300					287	
	RT						37	461	
250+90 - 254+80	LT		410					245	336
	RT		165					156	
TOTAL		72	17,631	68	79	7,295	17,321	2,282	

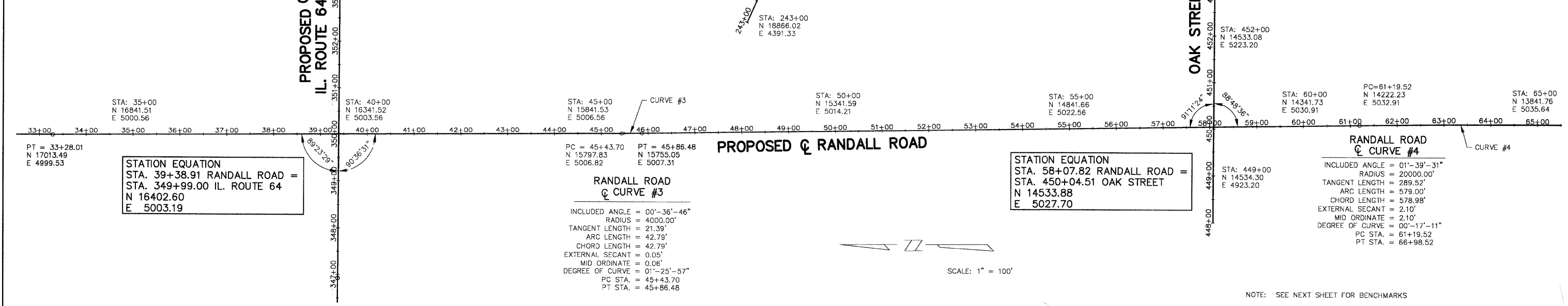
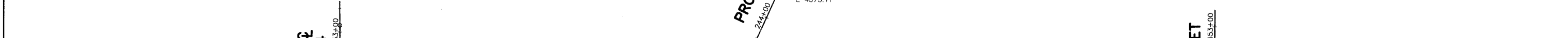
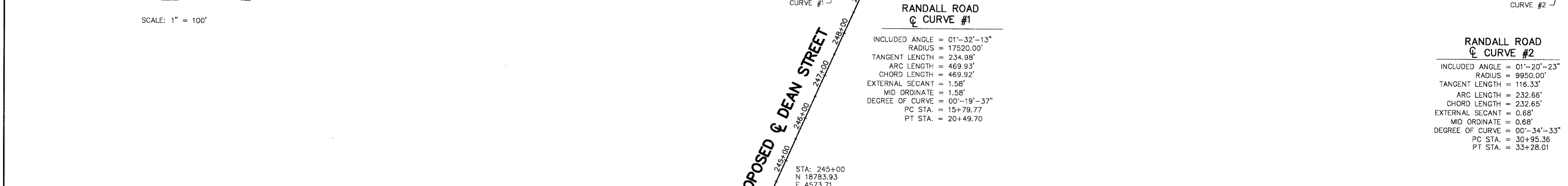
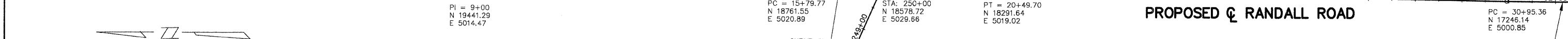
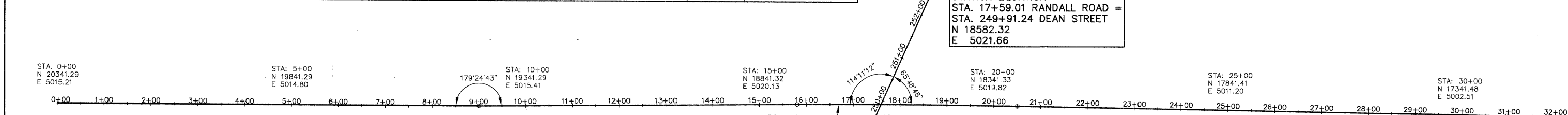
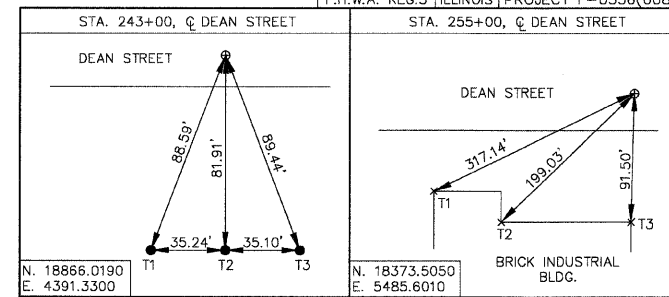
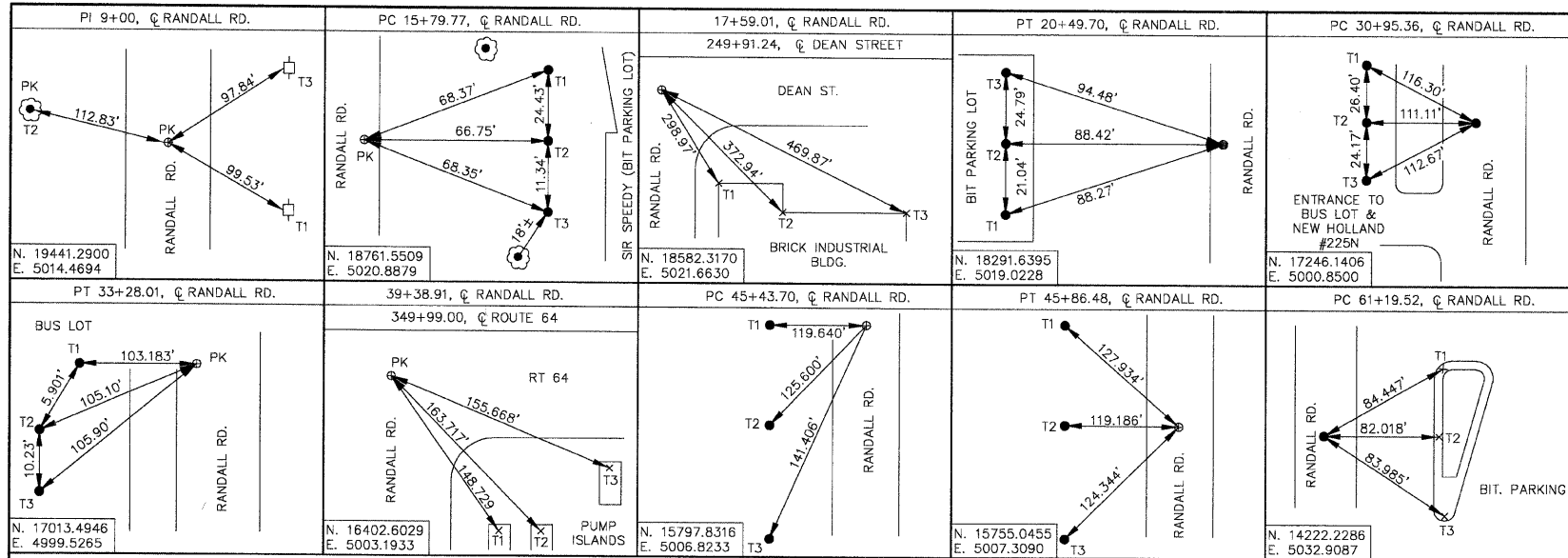
DRIVEWAYS				
LOCATION	REF	PCC DRIVEWAY PVMT (SQ YD)	BIT DRIVEWAY PVMT SUPER (SQ YD)	DRIVEWAY PVMT REMOV (SQ YD)
RANDALL ROAD				
24+35	LT		129	
26+13	LT		121	
30+10	LT		75	
32+73	LT		80	
33+30	LT		66	29
35+28	LT		46	
36+69	LT		53	
41+01	LT	38		30
42+48	RT		101	
53+59	RT		124	
59+80	RT		425	
60+49	RT		130	
IL ROUTE 64				
333+94	LT		65	
335+28	LT		59	
337+06	LT		50	
337+41	RT		63	
340+37	RT		42	
341+73	RT		58	
342+32	RT		47	
343+96	LT		58	
346+30	LT		52	
347+33	LT		52	
347+58	RT	70		
347+95	LT		58	
348+14	RT		107	
352+10	RT	60		103
352+20	LT	32		33
352+82	LT	33	93	
352+80	RT	45		
353+87	RT	24	32	
354+25	RT	24	31	
354+91	RT	24	25	
355+93	RT		40	
356+64	RT		43	
356+86	LT		53	
357+47	RT		52	
359+94	RT		61	
360+48	LT	44		
360+51	RT		64	
503+01	RT		60	
DEAN STREET				
246+52	LT		79	
247+13	RT		44	
251+62	LT		84	
252+46	LT		60	
252+87	LT		115	
TOTAL		394	2,997	195

PLAN ALLOWANCE		
ITEM	UNITS	QUANTITY
POROUS GRANULAR EMBANKMENT, SPECIAL *	CU YD	2,119
EXPLORATION TRENCH 84" DEPTH	FOOT	300
SHORT-TERM PAVEMENT MARKING	FOOT	5,700
PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	6,000
PAVEMENT MARKING REMOVAL	SQ FT	12,000
RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1,100
INCIDENTAL BITUMINOUS SURFACING, SUPERPAVE, N50	TON	180
TEMPORARY INFORMATION SIGNING	SQ FT	540
STABILIZED CONSTRUCTION ENTRANCE	SQ YD	700
TEMPORARY PAVEMENT	SQ YD	4,000
CHANGEABLE MESSAGE SIGN	CAL MO	72
RAILROAD FLAGMEN	UNIT	50,000
AGGREGATE FOR TEMPORARY ACCESS	TON	4,000
CONTROLLED LOW-STRENGTH MATERIAL	CU YD	1,000
DUST CONTROL WATERING	UNIT	400
FENCE REMOVAL	FOOT	50

AN ESTIMATED PLAN QUANTITY FOR EACH OF THESE ITEMS HAS BEEN SHOWN TO ESTABLISH UNIT PRICES FOR AN ITEM. PAYMENT SHALL BE MADE FOR ACTUAL QUANTITY COMPLETED WITHOUT AN ADJUSTMENT IN UNIT PRICE DUE TO A CHANGE IN PLAN QUANTITY.
 * ALLOWANCE IS ADDITIONAL TO THAT SHOWN IN THE ROADWAY QUANTITIES SCHEDULE

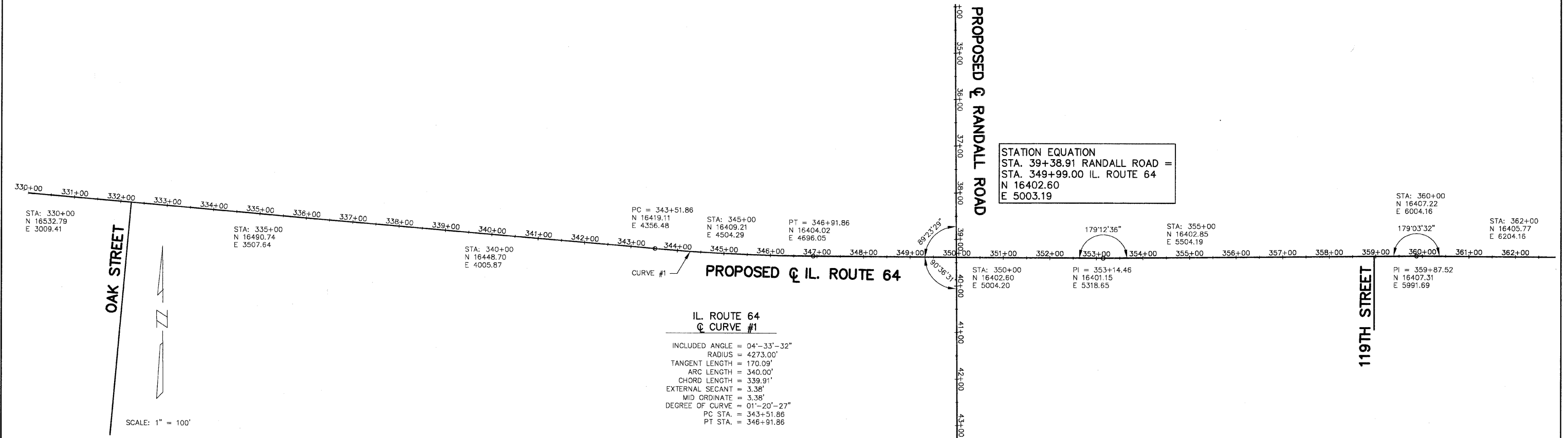
ROADWAY QUANTITIES																
LOCATION	POROUS GRAN EMB SUBGR (CU YD)	GEOTECH FAB F/GR STAB (SQ YD)	AGG SUBGRADE 12" (SQ YD)	AGG PRIME CT (TON)	BIT MATLS PRIME CT (TON)	AREA REF CR CON TR A (SQ YD)	PCC PVT 10" JOINTED (SQ YD)	HES PCC PVT 10" JOINTED (SQ YD)	BIT BASE SUPER 5-3/4" (SQ YD)	BIT BASE SUPER 8-3/4" (SQ YD)	BIT BASE SUPER 9-3/4" (SQ YD)	BIT BIND SUPER IL-19.0 N50 (TON)	BIT BIND SUPER IL-19.0 N90 (TON)	LEV BIND MM SUPER N70 (TON)	BIT SURF SUPER "D" N50 (TON)	BIT SURF SUPER "F" N90 (TON)
RANDALL ROAD																
1+00 - 5+50				3.9	1.6	3958										475
5+50 - 10+50			343	3.6	1.5	3600								57		434
10+50 - 15+50			1418	3.8	1.6	2827						1019	140	65		459
15+50 - 21+50			2913	6.2	2.6	4037							306	76		737
21+50 - 26+50	736	2208	3008	2.8	1.2	376						2390	323	32		331
26+50 - 31+50			3958	0.1	0.1							90	13	1		11
31+50 - 36+50	448	1344	5315									4618				
36+50 - 41+50	2656	7968	7877									3688	3609			
41+50 - 46+50			5879									5142				
46+50 - 51+50	991	2973	4708									4000				
51+50 - 56+50	1142	3426	5216									4588				
56+50 - 61+50	535	1605	2029	4.1	1.7	4089						792	104	52		491
61+50 - 64+50	84	252	195	2.3	1.0	2300							19	35		276
IL ROUTE 64																
331+60 - 337+00	266	798	719	3	1.3	2640							60	70		360
337+00 - 342+25	949	2847	2716	3.3	1.4	1163							302	38		399
342+25 - 347+25	1719	5157	5017	4.4	1.8								593			527
347+25 - 349+07	670	2010	1970	0.2	0.1							1508				24
350+95 - 353+25			2581			90	2118						27			11
353+25 - 358+25	266	798	1953	3.9	1.6	1806							4	2		
358+25 - 365+20	219	657	584	4.4	1.8	4100							190	83		465
													42	90		529
DEAN STREET																
244+30 - 248+90			1274	2.2	0.9	1291						927				264
250+90 - 254+30			669	1.8	0.7	1275						551				210
TOTAL	10,681	32,043	60,342	50	20.9	33,552	30,112	3,609	1,478	8,989	6,690	200	2,123	601	474	5,529

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
CONTRACT NO.		SHTS. NO.	
83782		5	
ALIGNMENT, TIES AND BENCHMARKS			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(00B)			

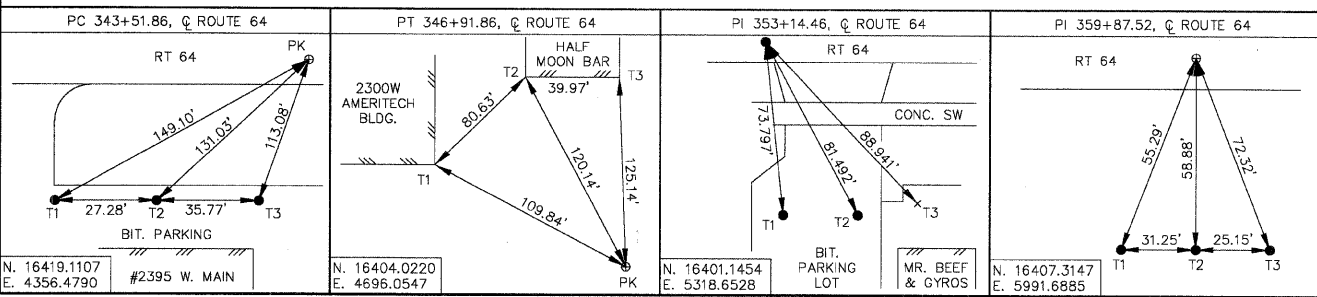


NOTE: SEE NEXT SHEET FOR BENCHMARKS

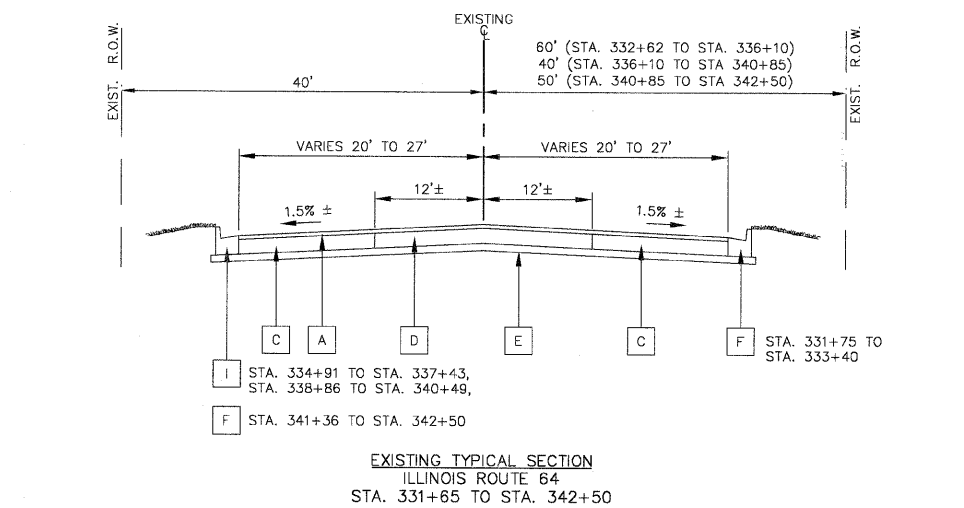
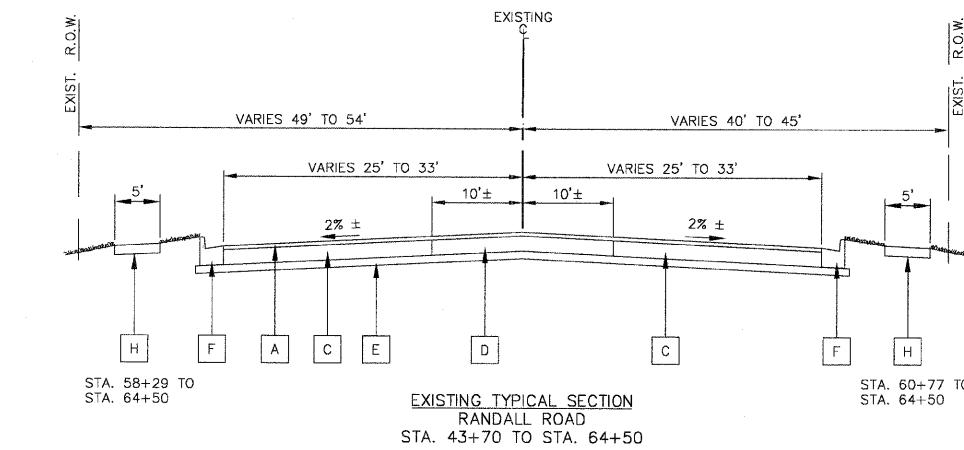
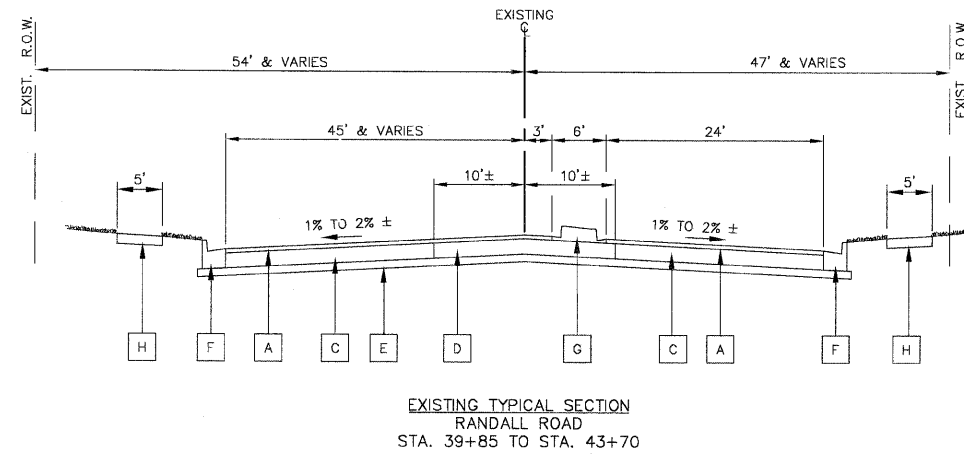
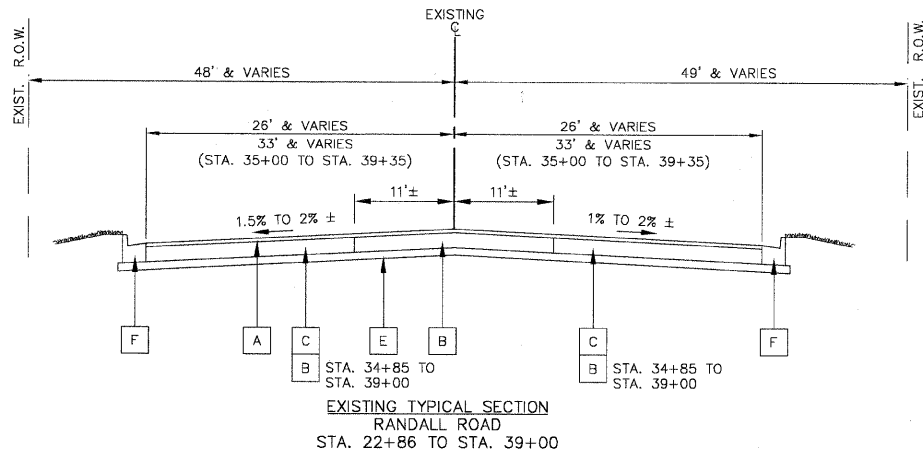
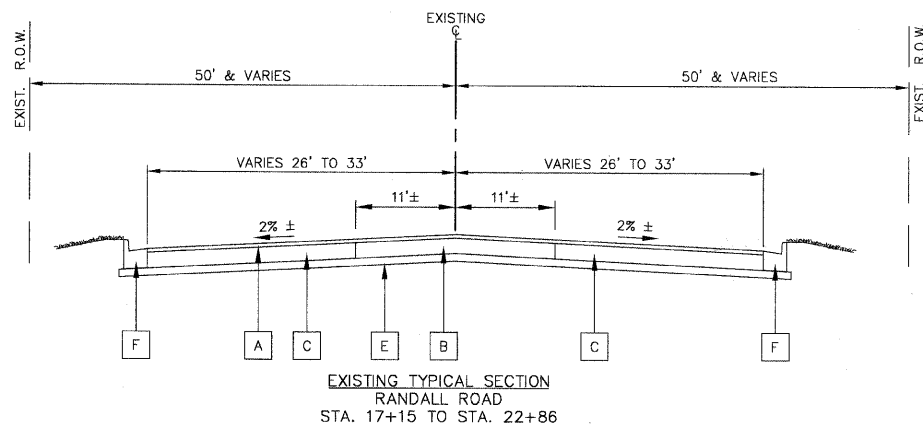
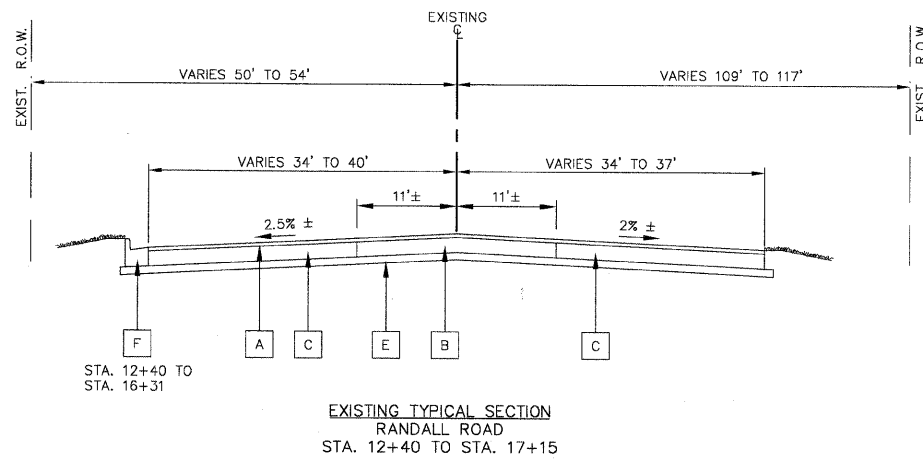
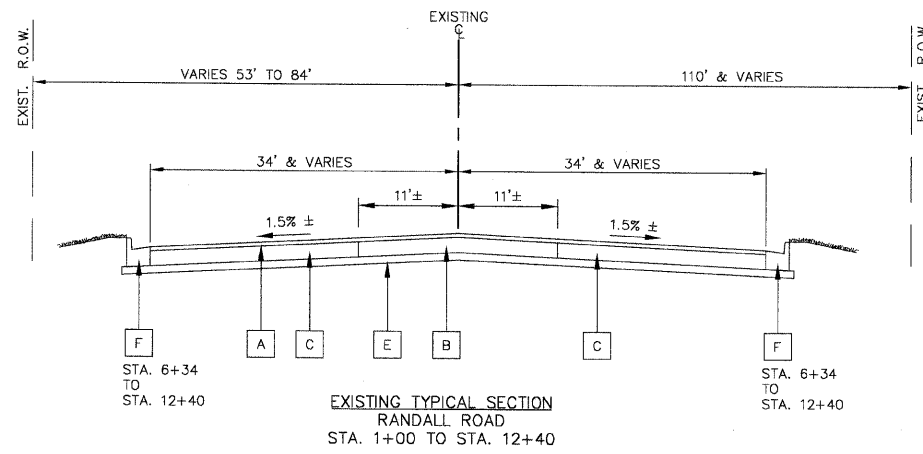
2	COUNTY SECTION	COUNTY	TOTAL SHEET
ROUTE 99-00243-00-PV		KANE	SHTS. NO.
336	CONTRACT NO. 83782		268 6
ALIGNMENT, TIES AND BENCHMARKS			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



- BENCHMARKS:**
1. THE NORTHEAST CORNER OF THE TRAFFIC SIGNAL CONTROLLER CONCRETE PAD LOCATED AT THE NORTHWEST CORNER OF THE INTERSECTION OF RANDALL ROAD AND DEAN STREET. ELEVATION 750.26
 2. THE CHISELED SQUARE ON THE SOUTHEAST CORNER OF THE RAILROAD CROSSING STANDARD LOCATED ON THE NORTH SIDE OF THE RAILROAD TRACKS ON THE WEST SIDE OF RANDALL ROAD NORTH OF IL. ROUTE 64. ELEVATION 745.81
 3. THE CHISELED SQUARE ON THE NORTHWEST CORNER OF THE TELEPHONE BOX CONCRETE PAD LOCATED ON THE EAST RIGHT-OF-WAY LINE OF RANDALL ROAD AT STA. 49+53. ELEVATION 781.62
 4. THE BONNET BOLT ARROW ON THE FIRE HYDRANT LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF RANDALL ROAD AND OAK STREET. ELEVATION 789.56
 5. THE SOUTHWEST BOLT ON THE FIRE HYDRANT LOCATED ON THE SOUTH SIDE OF IL. ROUTE 64 AT NO. 2701 (NORTHEAST CORNER OF FIFTH AVENUE FLOWERS). ELEVATION 790.45
 6. THE BONNET BOLT ARROW ON THE FIRE HYDRANT LOCATED AT THE SOUTHWEST CORNER OF THE INTERSECTION OF IL. ROUTE 64 AND OAK STREET. ELEVATION 789.82
 7. THE TAG BOLT ON THE FIRE HYDRANT LOCATED ON THE SOUTH SIDE OF IL. ROUTE 64 AT NO. 2425 (WEST PROPERTY LINE OF THE DECK YARD). ELEVATION 785.41
 8. THE SOUTHWEST BOLT ON THE FIRE HYDRANT LOCATED ON THE SOUTH SIDE OF IL. ROUTE 64 AT NO. 1915 (MCDONALDS). ELEVATION 775.51

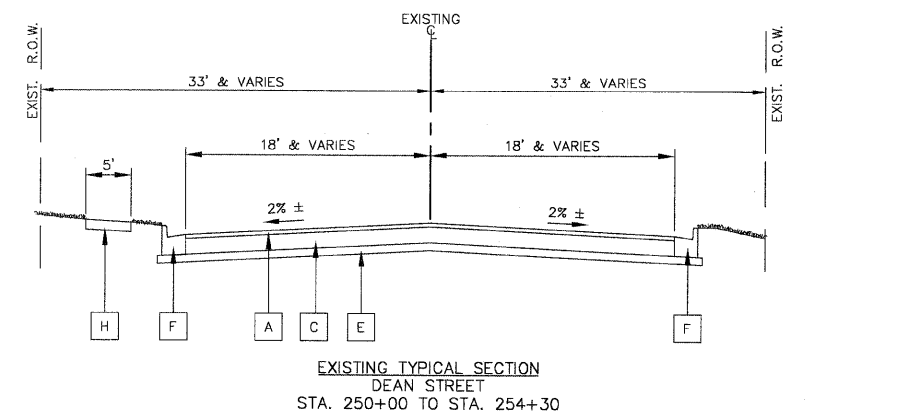
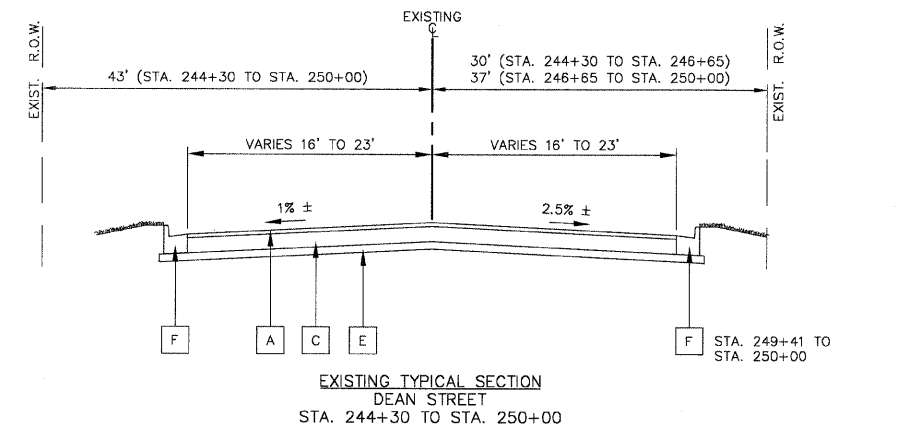
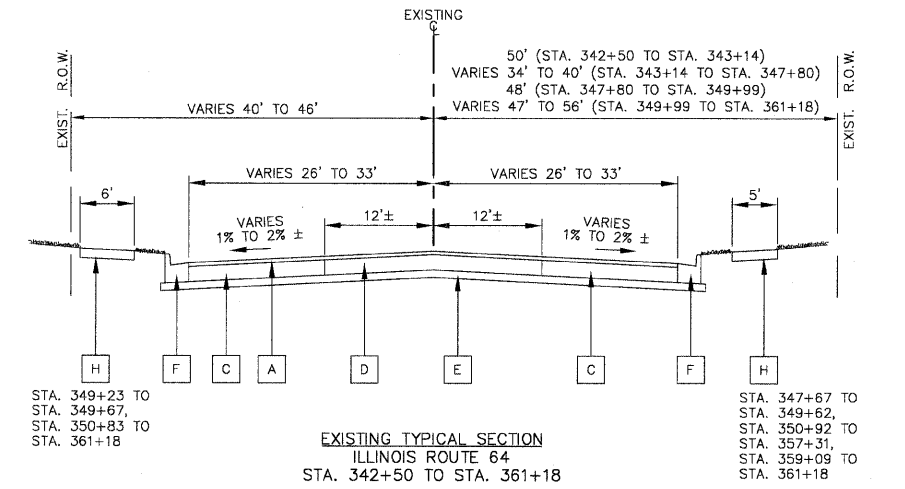


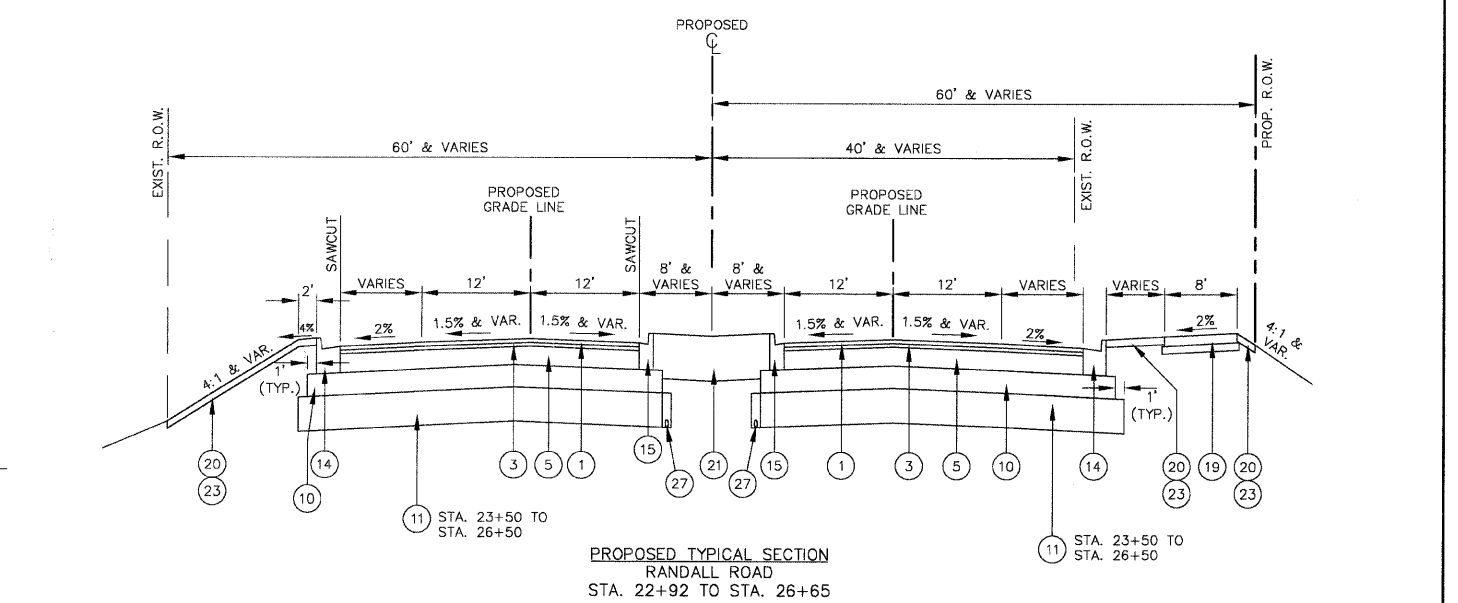
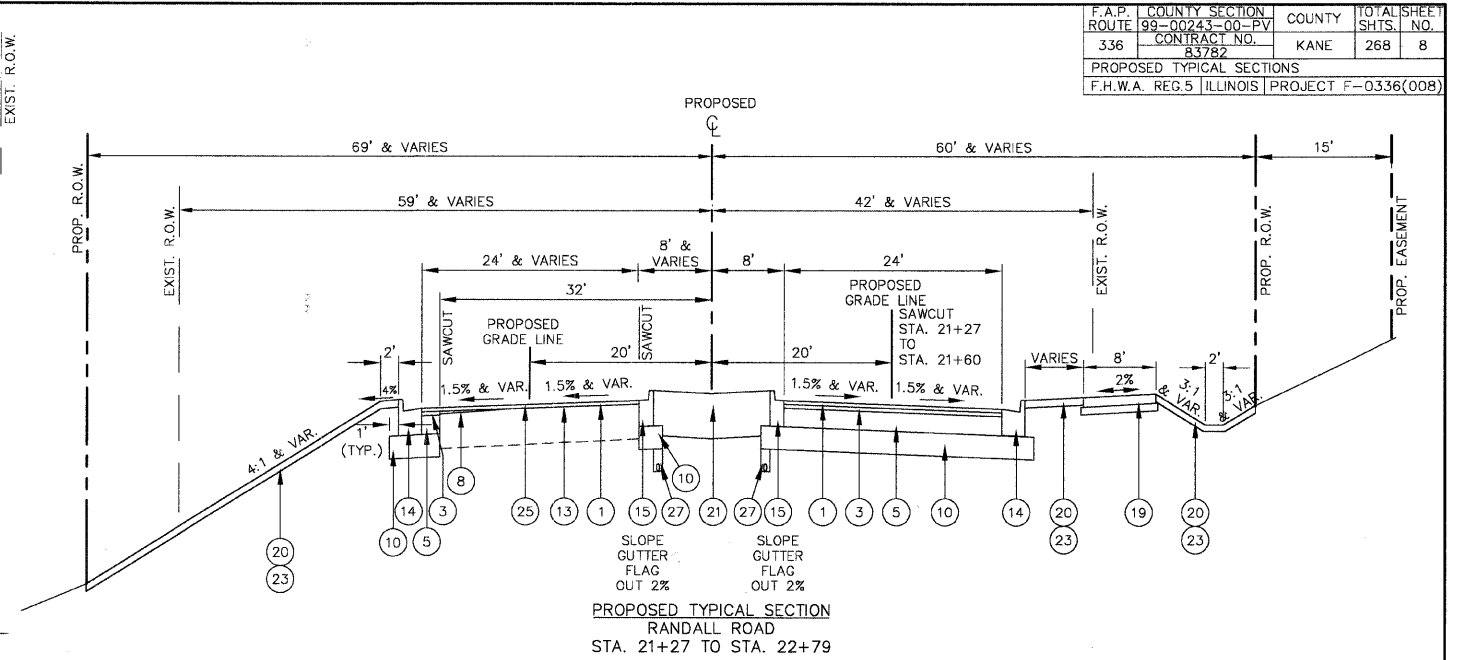
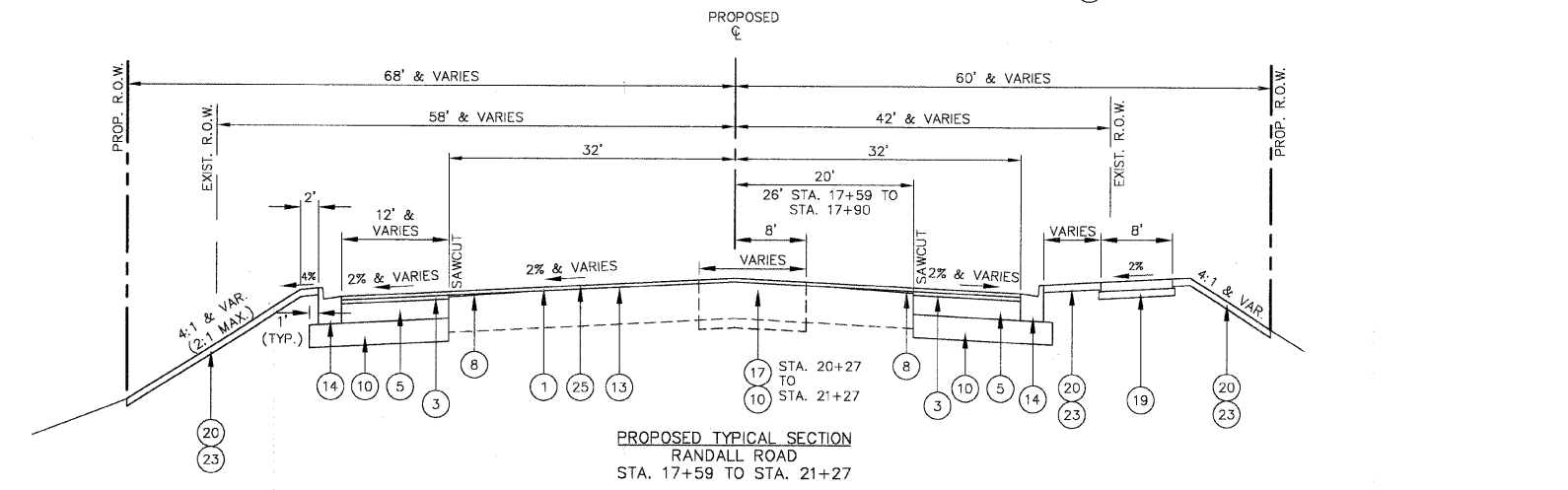
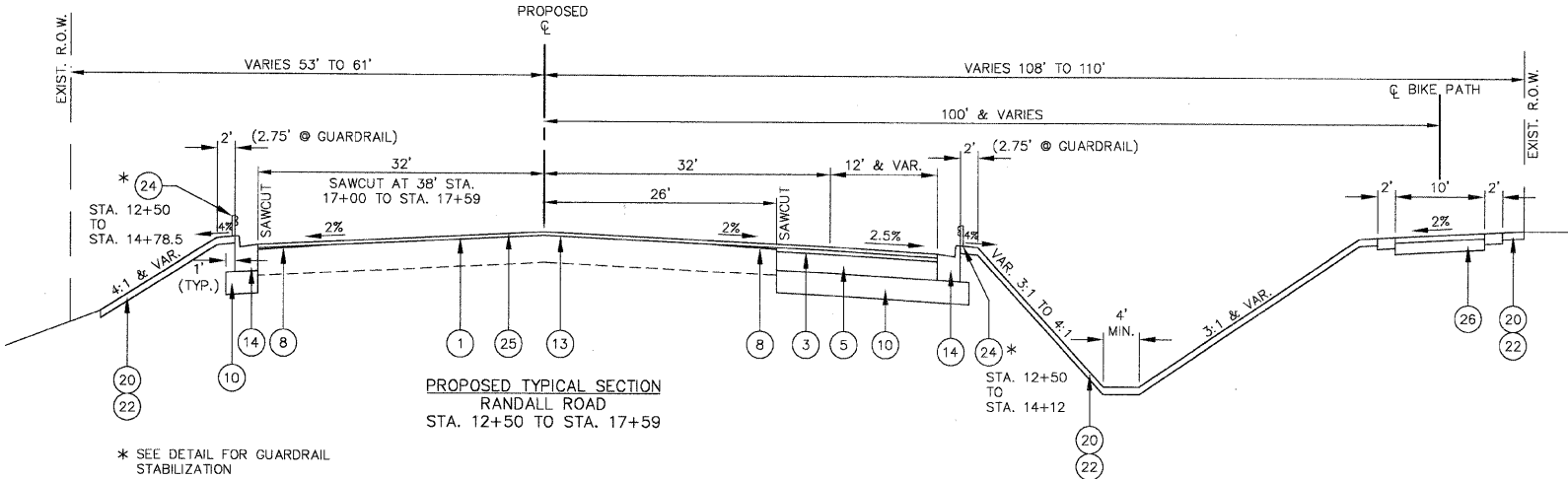
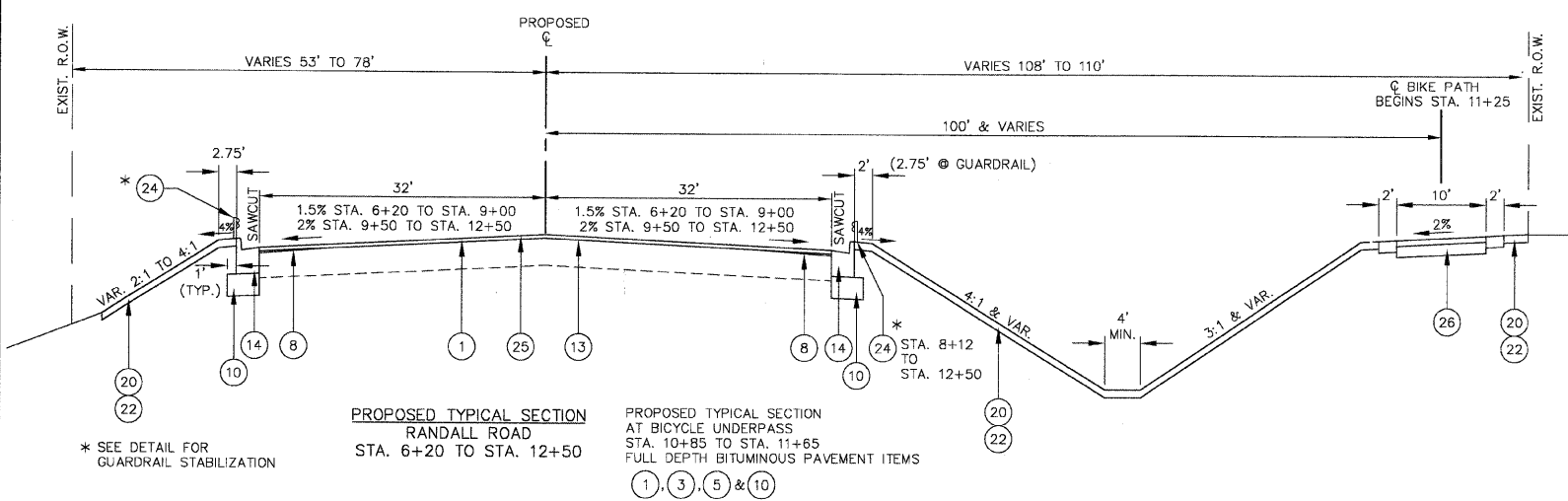
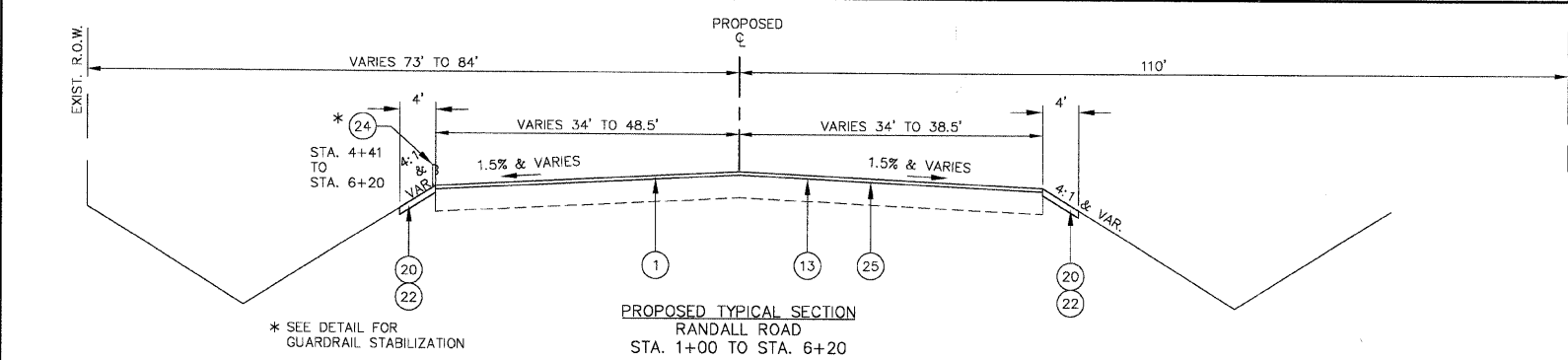
F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
98-00243-00-PV		KANE	26B
336	CONTRACT NO. 83782		7
EXISTING TYPICAL SECTIONS			
F.H.W.A. REG.5 [ILLINOIS] PROJECT F-0336(00B)			



EXISTING TYPICAL SECTION ITEMS

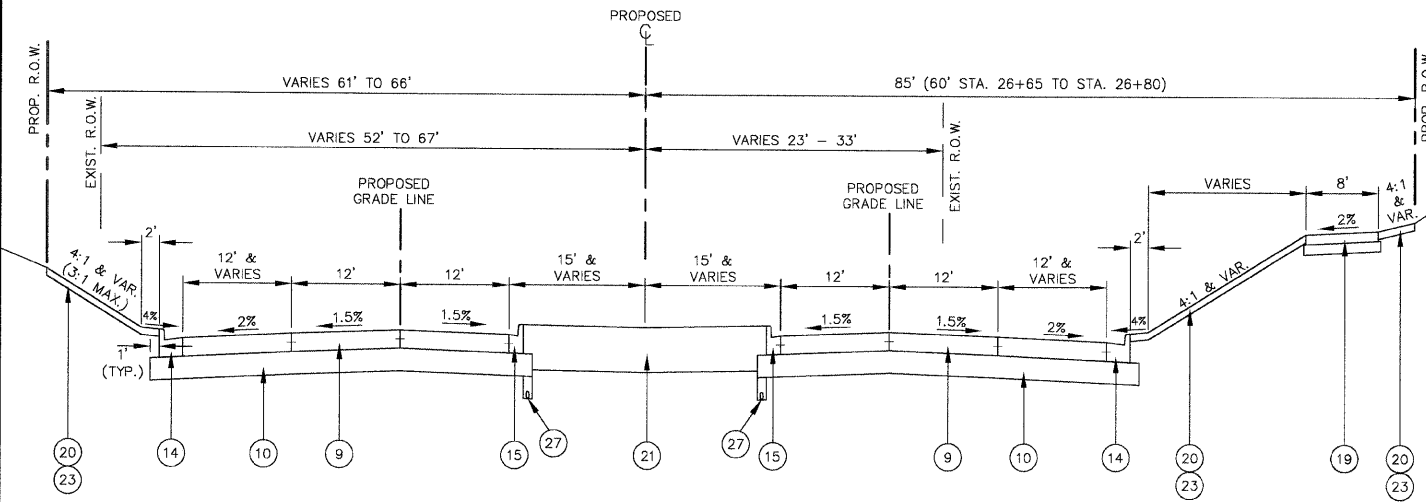
- A EXISTING BITUMINOUS SURFACE & BINDER COURSE (VARIES 3" TO 6")
- B EXISTING AGGREGATE BASE COURSE (VARIES 10" TO 18")
- C EXISTING BITUMINOUS BASE COURSE (VARIES 8" TO 12")
- D EXISTING CONCRETE BASE COURSE (VARIES 7" TO 9")
- E EXISTING GRANULAR SUBBASE
- F EXISTING COMBINATION CONCRETE CURB & GUTTER
- G EXISTING CONCRETE MEDIAN
- H EXISTING CONCRETE SIDEWALK
- I EXISTING CONCRETE CURB



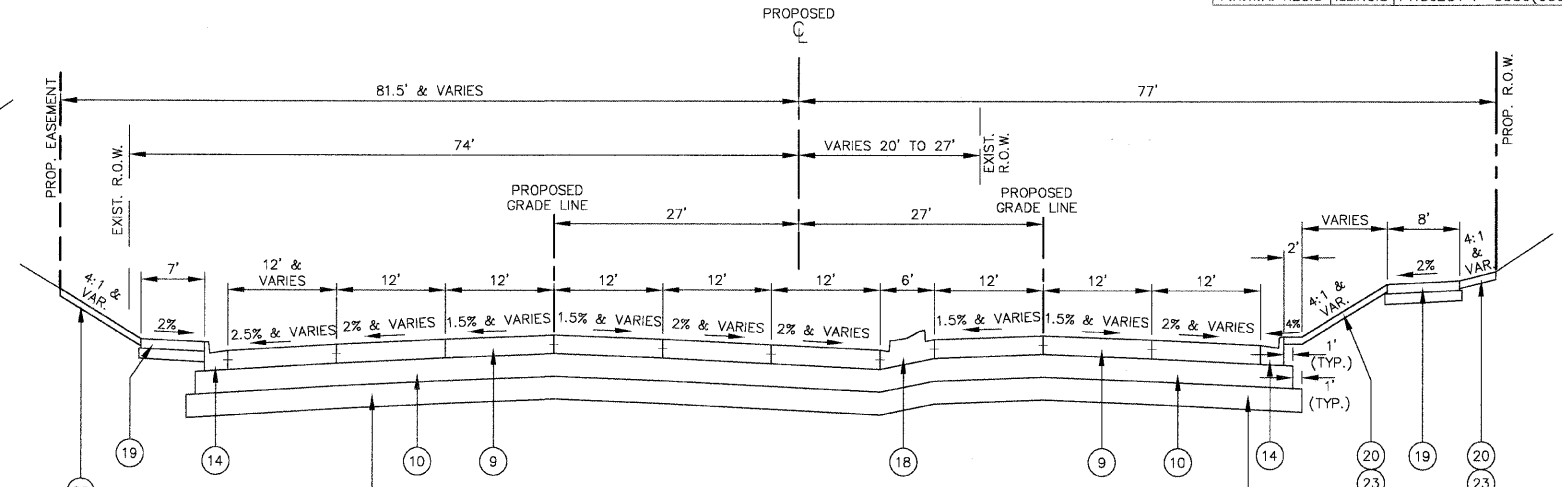


PROPOSED TYPICAL SECTION ITEMS

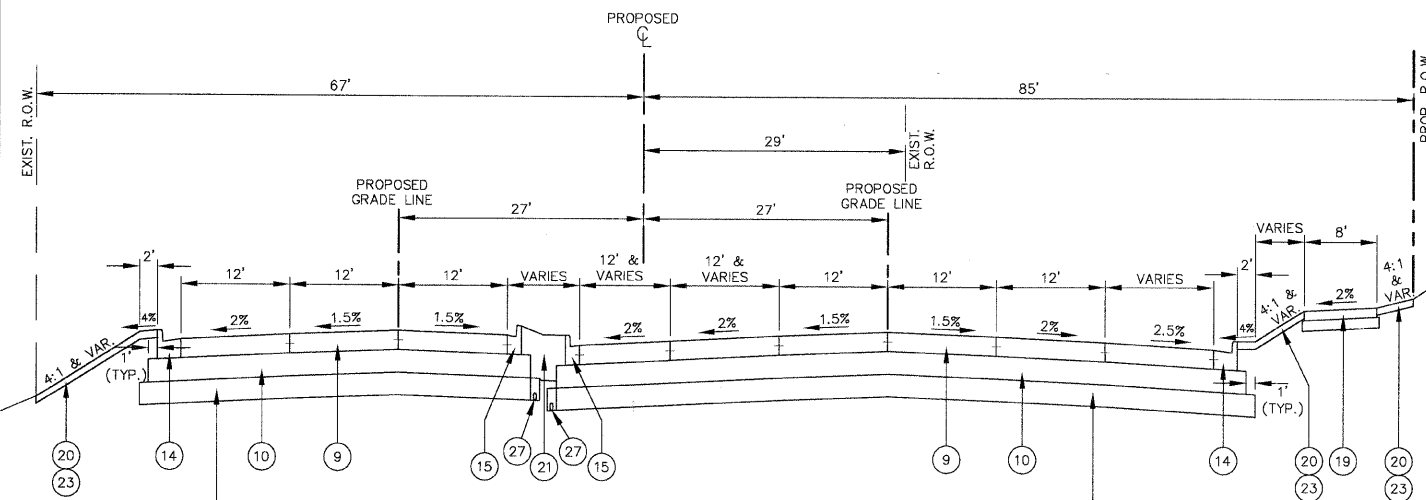
- | | | |
|--|--|---|
| 1 POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "F", N90, 2" | 10 AGGREGATE SUBGRADE, 12" | 20 TOPSOIL FURNISH AND PLACE, 4" |
| 2 BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N50, 2" | 11 POROUS GRANULAR EMBANKMENT, SPECIAL 12" WITH GEOTECHNICAL FABRIC FOR GROUND STABILIZATION | 21 TOPSOIL FURNISH AND PLACE, 24" (LANDSCAPED MEDIAN, SEE LANDSCAPING PLANS FOR GRADING) |
| 3 BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N90, 2 1/4" | 12 HIGH-EARLY-STRENGTH PORTLAND CEMENT CONCRETE PAVEMENT, 10" (JOINTED) | 22 SEEDING CLASS 2A |
| 4 BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N50, 2 1/4" | 13 AREA REFLECTIVE CRACK CONTROL TREATMENT, SYSTEM A | 23 SODDING, SALT TOLERANT |
| 5 BITUMINOUS BASE COURSE, SUPERPAVE, 9 3/4" | 14 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 | 24 STEEL PLATE BEAM GUARD RAIL, TYPE A & GUARDRAIL STABILIZATION BITUMINOUS SHOULDERS SUPERPAVE 6" |
| 6 BITUMINOUS BASE COURSE, SUPERPAVE, 8 3/4" | 15 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 | 25 BITUMINOUS SURFACE REMOVAL |
| 7 BITUMINOUS BASE COURSE, SUPERPAVE, 5 3/4" | 16 COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12 | 26 STABILIZED BIKE PATH BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50, 3"; AGGREGATE BASE COURSE, TYPE B, 6"; AGGREGATE SHOULDERS, TYPE B, 6" |
| 8 LEVELING BINDER (MACHINE METHOD), SUPERPAVE, N70 | 17 PORTLAND CEMENT CONCRETE CORRUGATED MEDIAN | 27 PIPE UNDERDRAIN, 4" |
| 9 PORTLAND CEMENT CONCRETE PAVEMENT, 10" (JOINTED) JOINTS @ 15' C/C. SEE STANDARDS FOR TIE BARS AND DOWEL BARS | 18 CONCRETE MEDIAN, TYPE SB-6.12 | |
| | 19 PORTLAND CEMENT CONCRETE SIDEWALK, 5" WITH AGGREGATE BASE COURSE, TYPE B, 4" | |



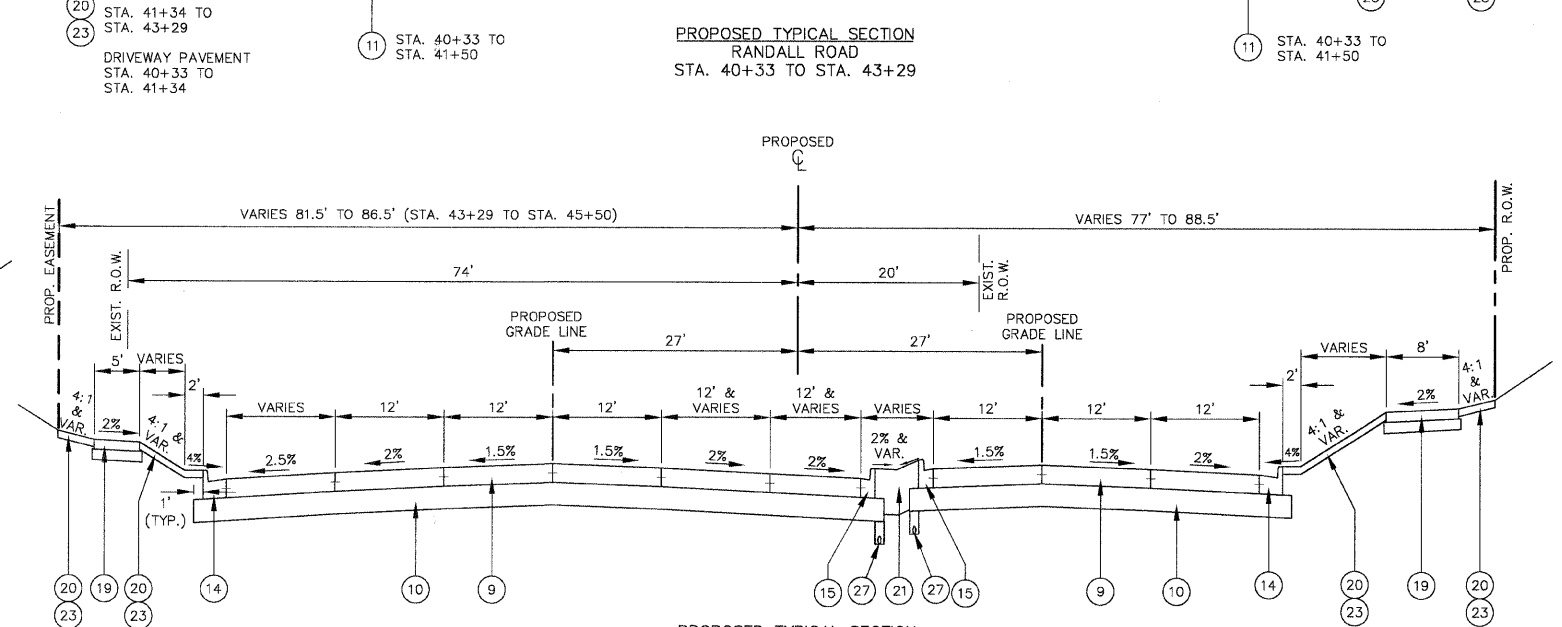
PROPOSED TYPICAL SECTION
 RANDALL ROAD
 STA. 26+65 TO STA. 33+28



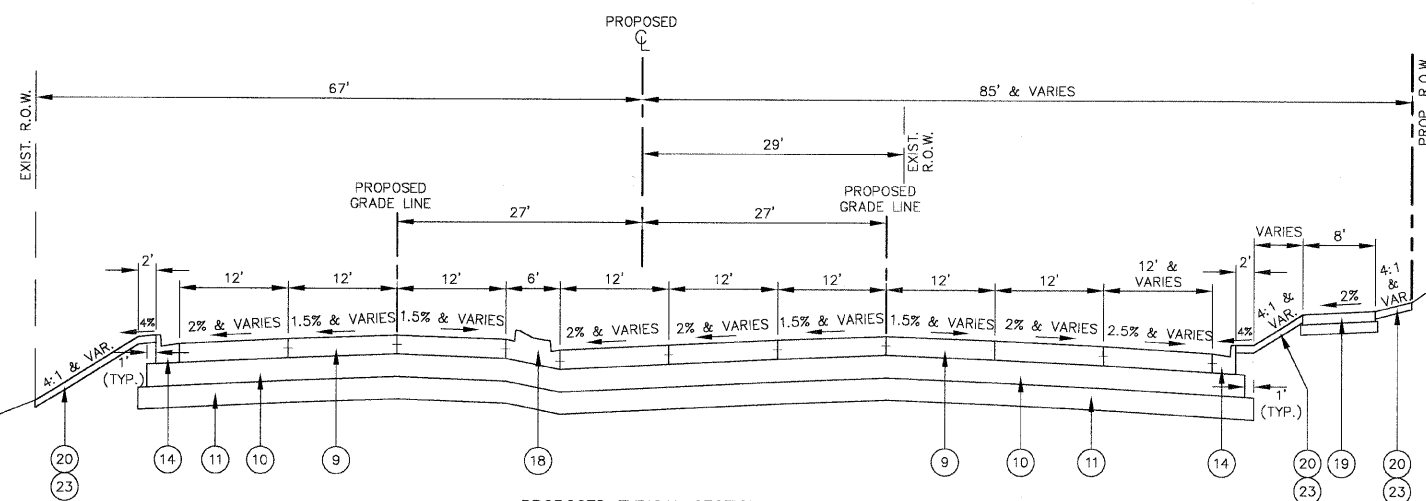
PROPOSED TYPICAL SECTION
 RANDALL ROAD
 STA. 40+33 TO STA. 43+29



PROPOSED TYPICAL SECTION
 RANDALL ROAD
 STA. 33+28 TO STA. 35+93



PROPOSED TYPICAL SECTION
 RANDALL ROAD
 STA. 43+29 TO STA. 45+94



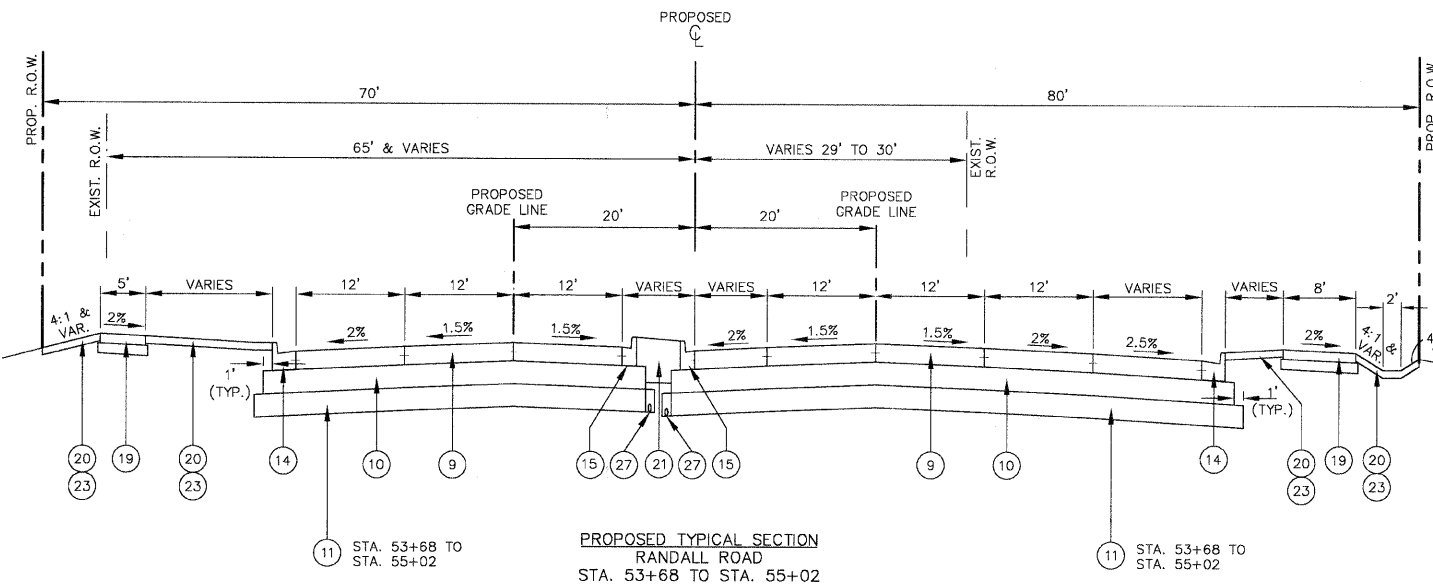
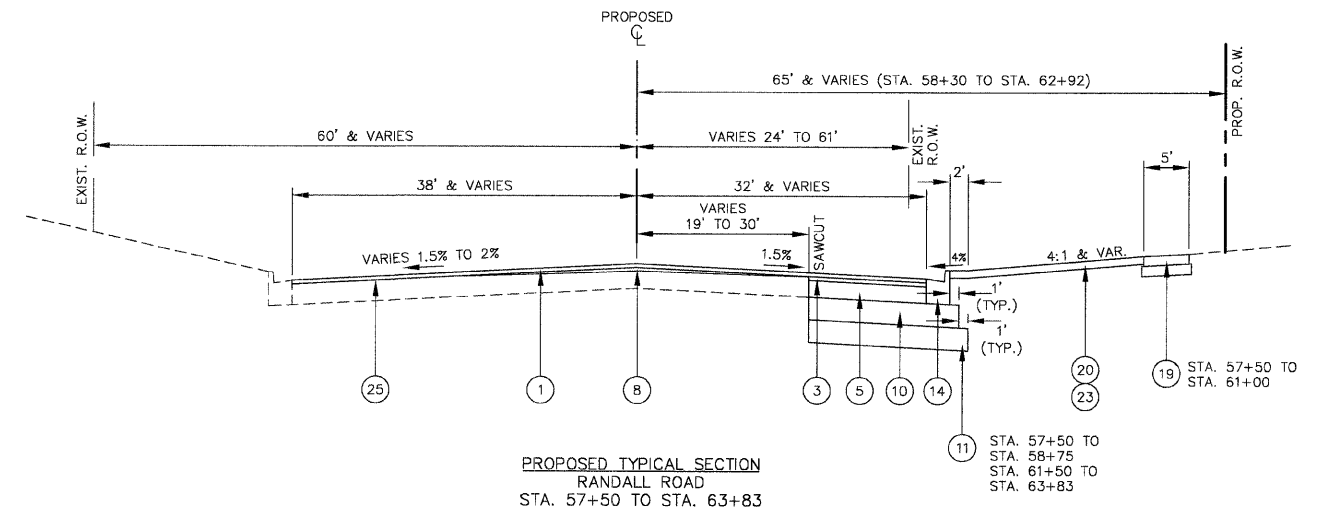
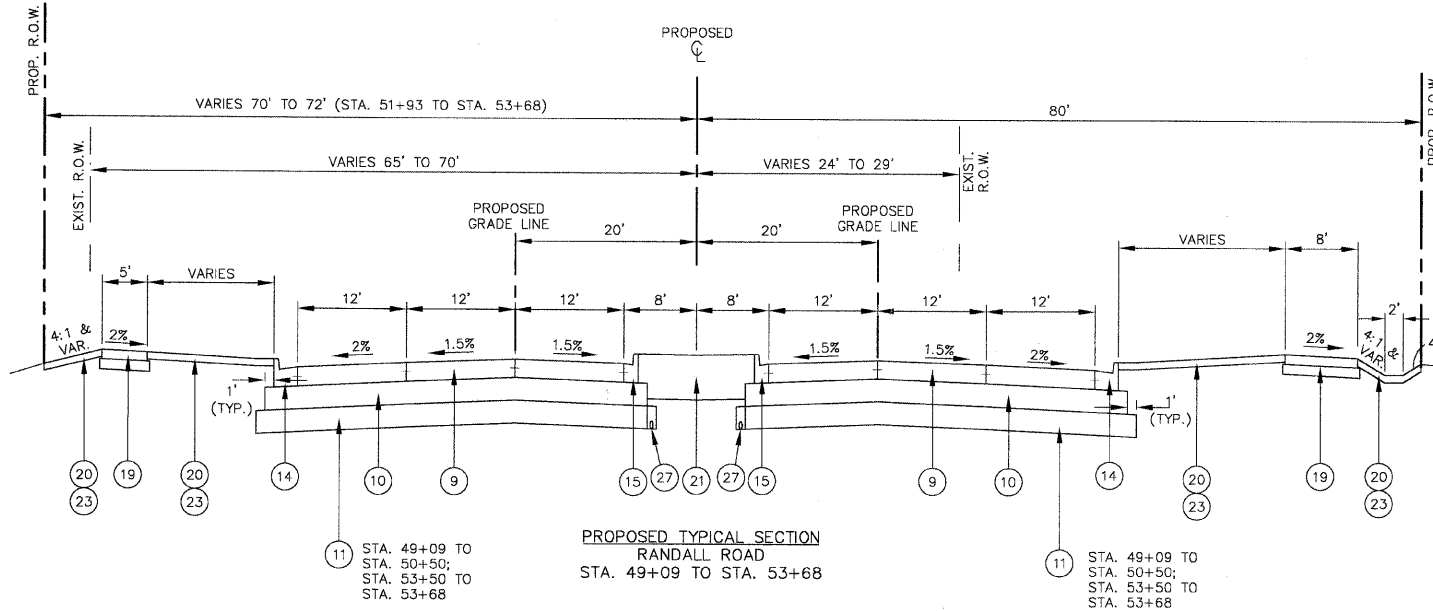
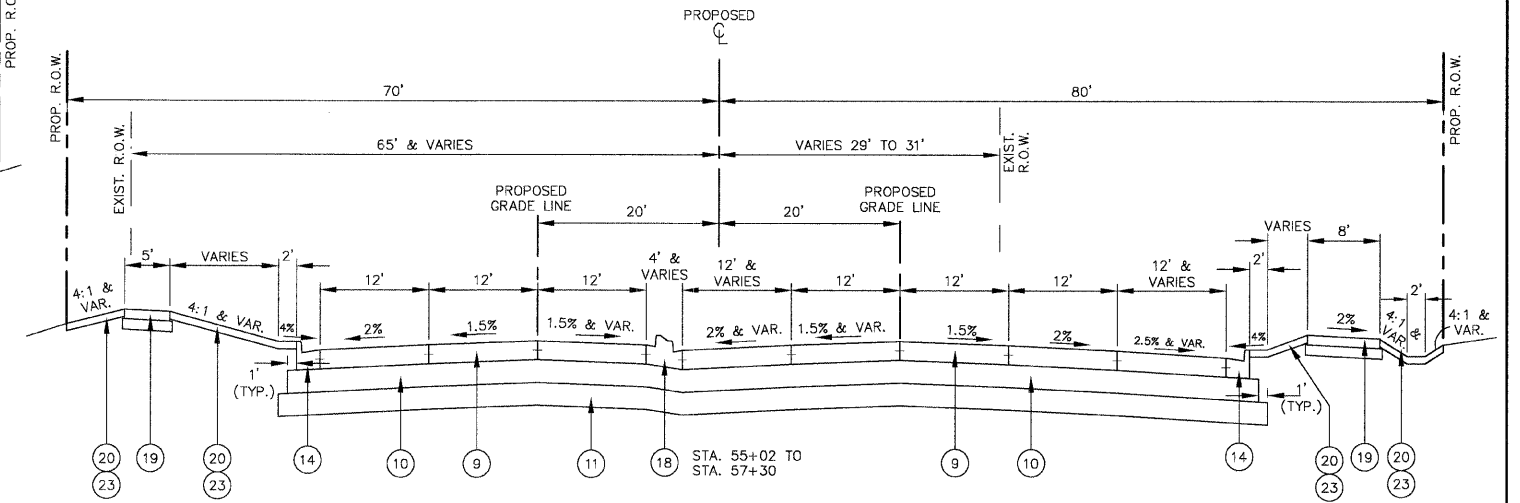
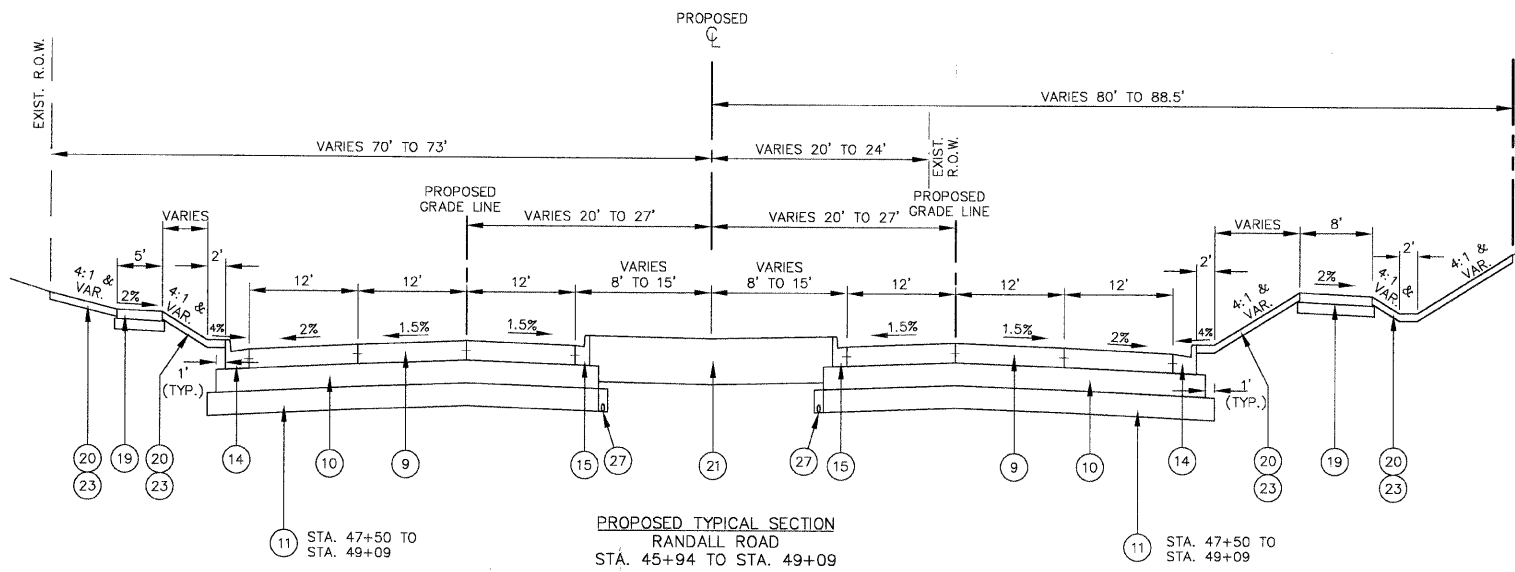
PROPOSED TYPICAL SECTION
 RANDALL ROAD
 STA. 35+93 TO STA. 38+40

PROPOSED TYPICAL SECTION
 RANDALL ROAD / ILL. RTE. 64 INTERSECTION
 STA. 38+40 TO STA. 40+33

- 12 HIGH-EARLY-STRENGTH PCC PAVEMENT, 10" (JOINTED)
SEE SHEET NO. 109 FOR PAVEMENT JOINTS AND ELEVATIONS.
- 10 AGGREGATE SUBGRADE, 12"
- 11 POROUS GRANULAR EMBANKMENT, SPECIAL 12" WITH GEOTECHNICAL FABRIC FOR GROUND STABILIZATION

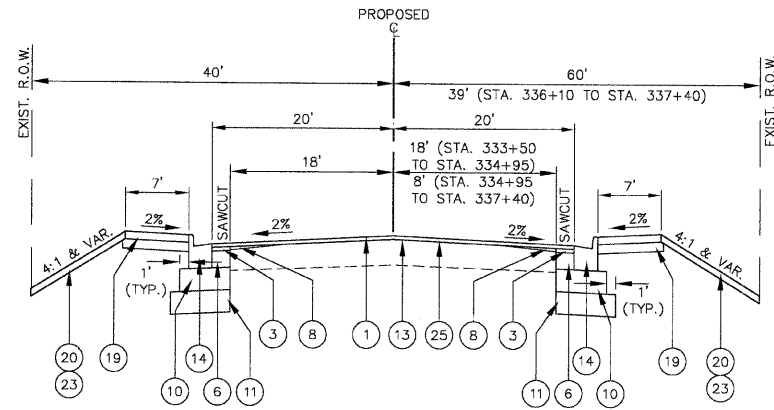
PROPOSED TYPICAL SECTION ITEMS

- | | | |
|--|--|---|
| 1 POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "F", N90, 2" | 10 AGGREGATE SUBGRADE, 12" | 20 TOPSOIL FURNISH AND PLACE, 4" |
| 2 BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N50, 2" | 11 POROUS GRANULAR EMBANKMENT, SPECIAL 12" WITH GEOTECHNICAL FABRIC FOR GROUND STABILIZATION | 21 TOPSOIL FURNISH AND PLACE, 24" (LANDSCAPED MEDIAN, SEE LANDSCAPING PLANS FOR GRADING) |
| 3 BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N90, 2 1/4" | 12 HIGH-EARLY-STRENGTH PORTLAND CEMENT CONCRETE PAVEMENT, 10" (JOINTED) | 22 SEEDING CLASS 2A |
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| 6 BITUMINOUS BASE COURSE, SUPERPAVE, 8 3/4" | 15 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 | 25 BITUMINOUS SURFACE REMOVAL |
| 7 BITUMINOUS BASE COURSE, SUPERPAVE, 5 3/4" | 16 COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12 | 26 STABILIZED BIKE PATH BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50, 3"; AGGREGATE BASE COURSE, TYPE B, 6"; AGGREGATE SHOULDERS, TYPE B, 6" |
| 8 LEVELING BINDER (MACHINE METHOD), SUPERPAVE, N70 | 17 PORTLAND CEMENT CONCRETE CORRUGATED MEDIAN | 27 PIPE UNDERDRAIN, 4" |
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| | 19 PORTLAND CEMENT CONCRETE SIDEWALK, 5" WITH AGGREGATE BASE COURSE, TYPE B, 4" | |

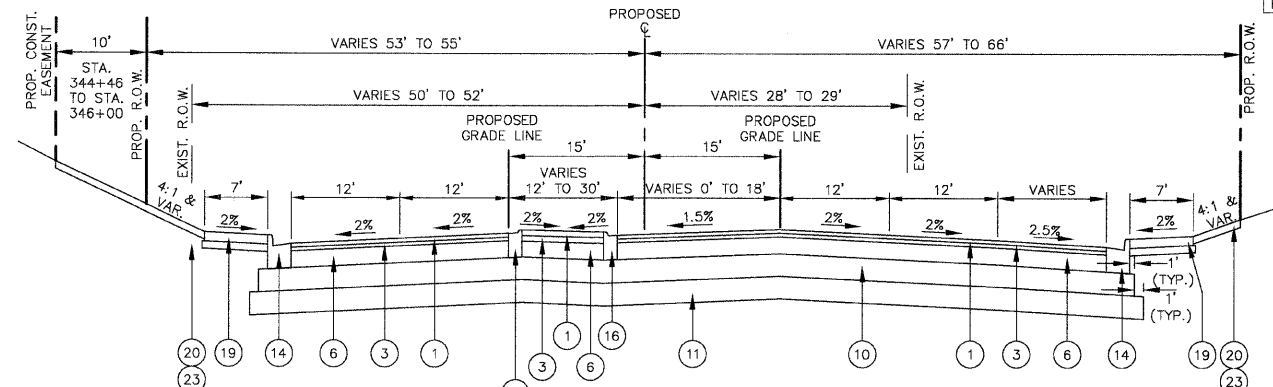


PROPOSED TYPICAL SECTION ITEMS

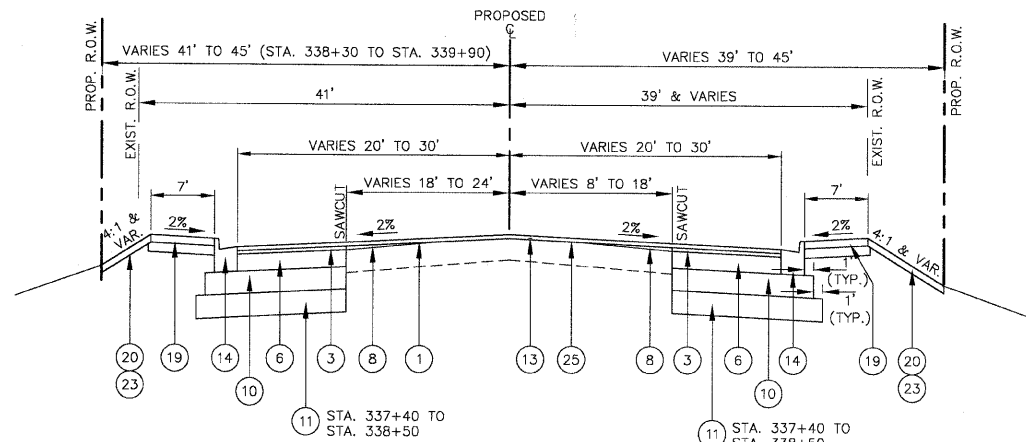
- | | | |
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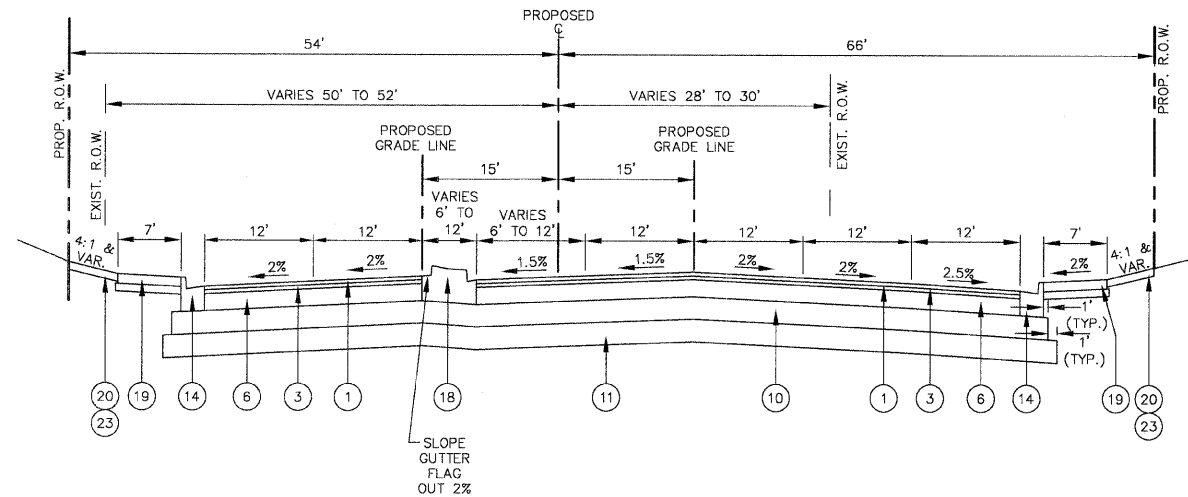
PROPOSED TYPICAL SECTION
 IL. RTE. 64
 STA. 333+50 TO STA. 337+40



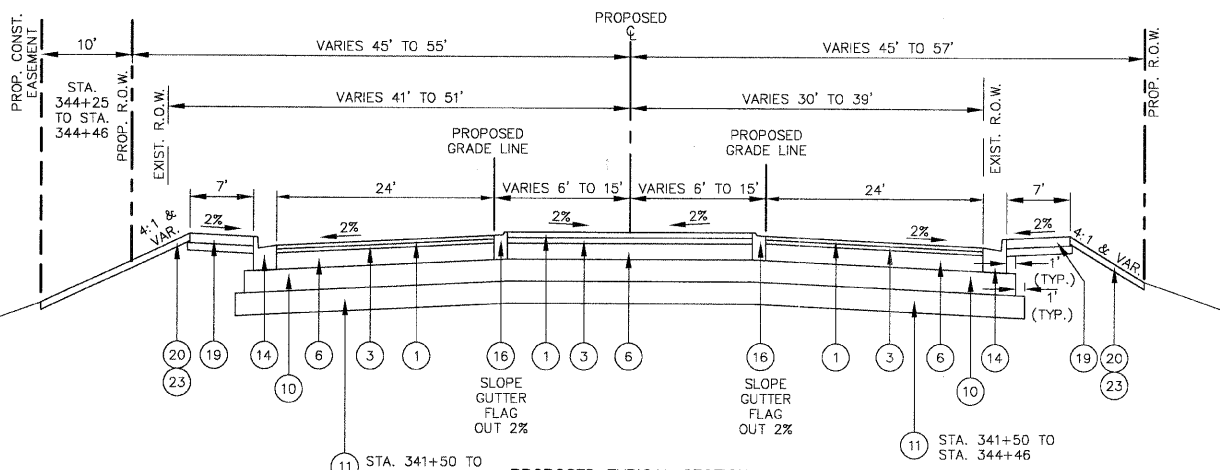
PROPOSED TYPICAL SECTION
 IL. RTE. 64
 STA. 344+46 TO STA. 346+44



PROPOSED TYPICAL SECTION
 IL. RTE. 64
 STA. 337+40 TO STA. 338+50



PROPOSED TYPICAL SECTION
 IL. RTE. 64
 STA. 346+44 TO STA. 347+46

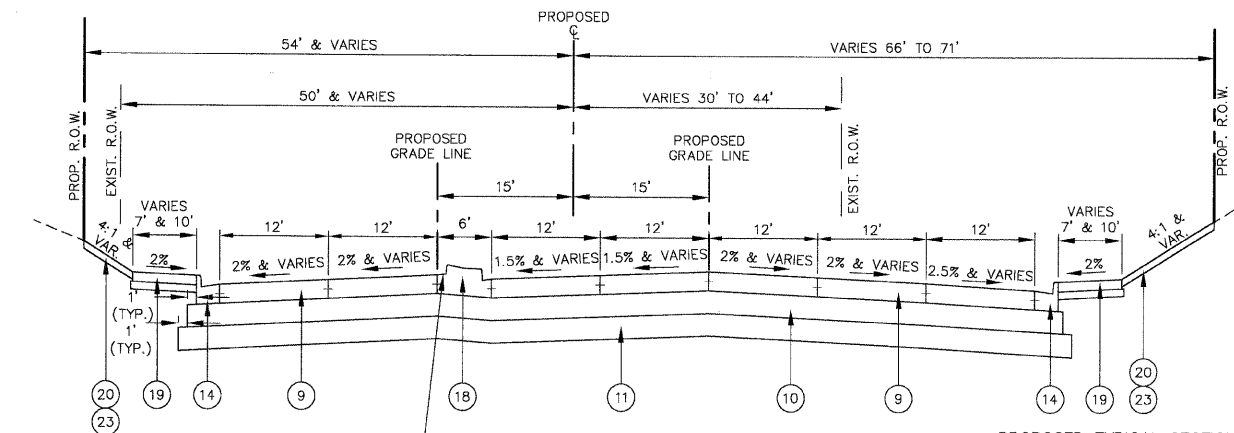


PROPOSED TYPICAL SECTION
 IL. RTE. 64
 STA. 339+90 TO STA. 344+46

PROPOSED TYPICAL SECTION ITEMS

- | | | |
|--|--|---|
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F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
99-00243-00-PV		KANE	268
336	CONTRACT NO. 83782		12
PROPOSED TYPICAL SECTIONS			
F.H.W.A. REG. 5 [ILLINOIS] PROJECT F-0336(00B)			



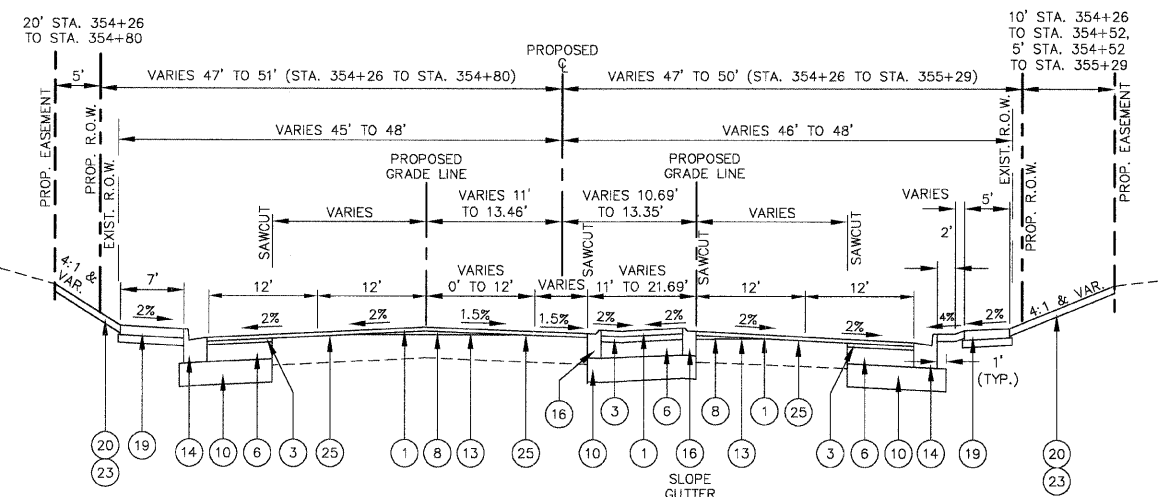
PROPOSED TYPICAL SECTION
 RANDALL ROAD / IL. RTE. 64 INTERSECTION
 STA. 349+07 TO STA. 350+95

12 HIGH-EARLY-STRENGTH PCC PAVEMENT, 10" (JOINTED)
 SEE SHEET NO. 109 FOR PAVEMENT JOINTS AND ELEVATIONS.

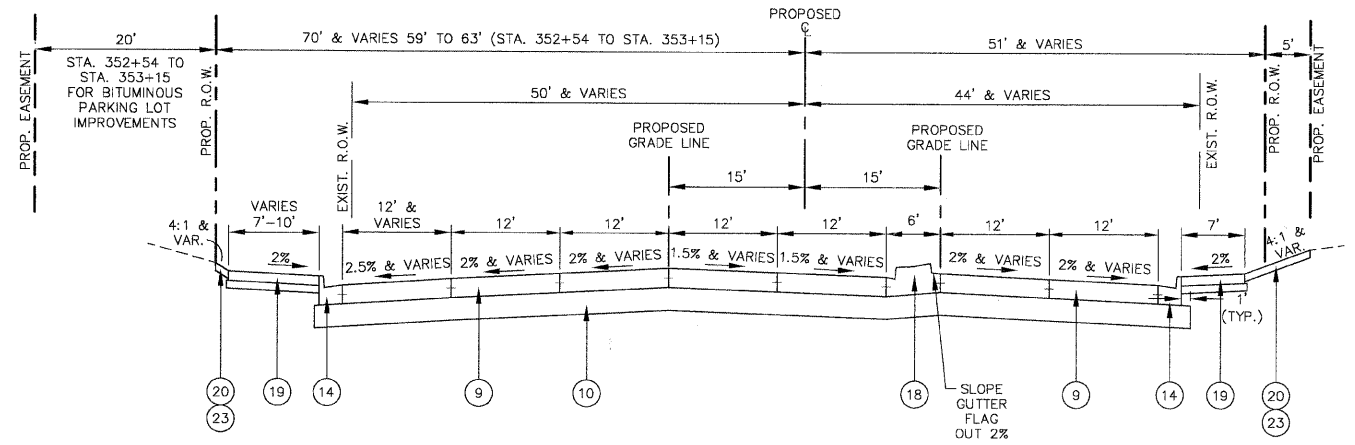
10 AGGREGATE SUBGRADE, 12"

11 POROUS GRANULAR EMBANKMENT, SPECIAL 12" WITH GEOTECHNICAL FABRIC FOR GROUND STABILIZATION

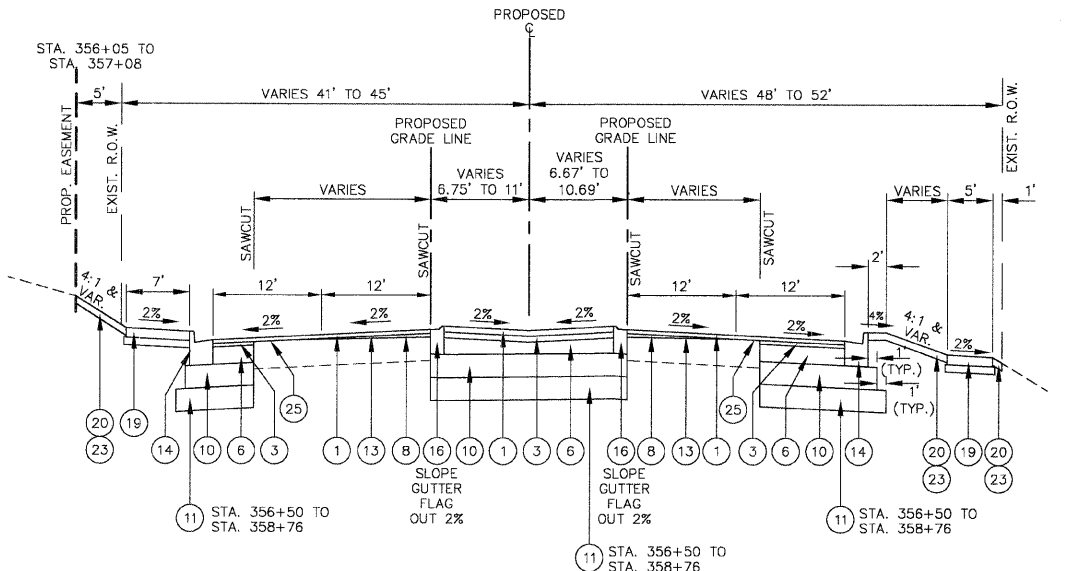
PROPOSED TYPICAL SECTION
 IL. RTE. 64
 STA. 347+46 TO STA. 349+07



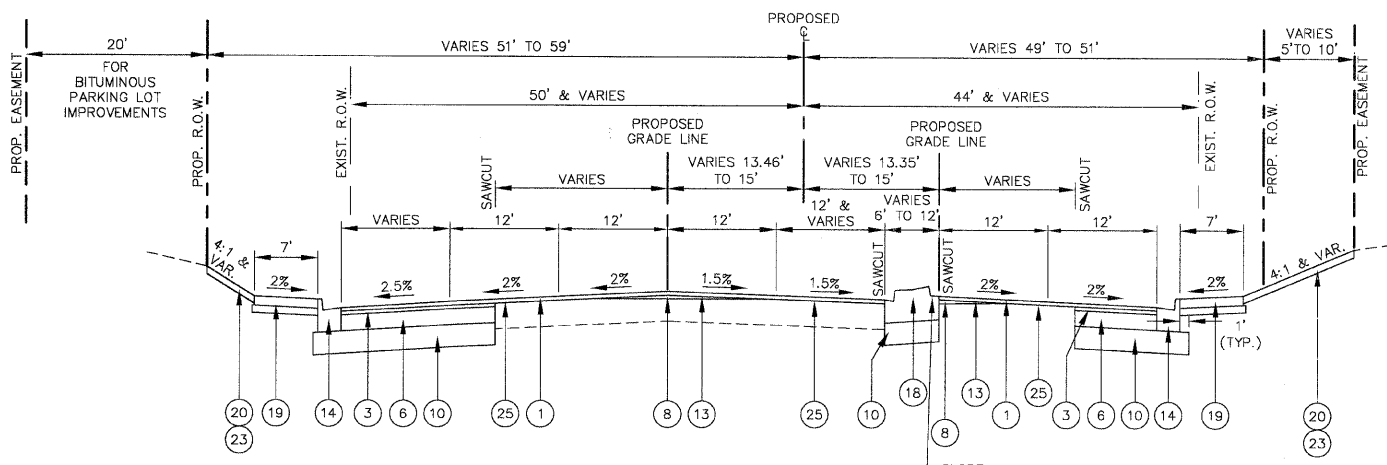
PROPOSED TYPICAL SECTION
 IL. RTE. 64
 STA. 354+26 TO STA. 356+05



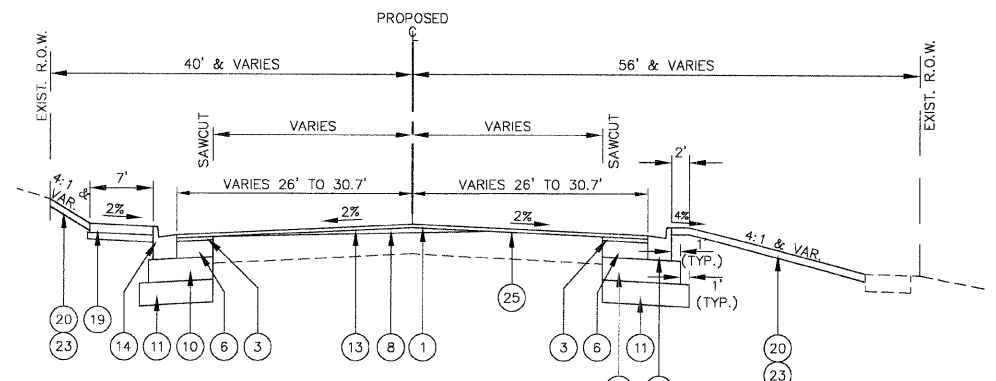
PROPOSED TYPICAL SECTION
 IL. RTE. 64
 STA. 350+95 TO STA. 353+15



PROPOSED TYPICAL SECTION
 IL. RTE. 64
 STA. 356+05 TO STA. 358+76



PROPOSED TYPICAL SECTION
 IL. RTE. 64
 STA. 353+15 TO STA. 354+26

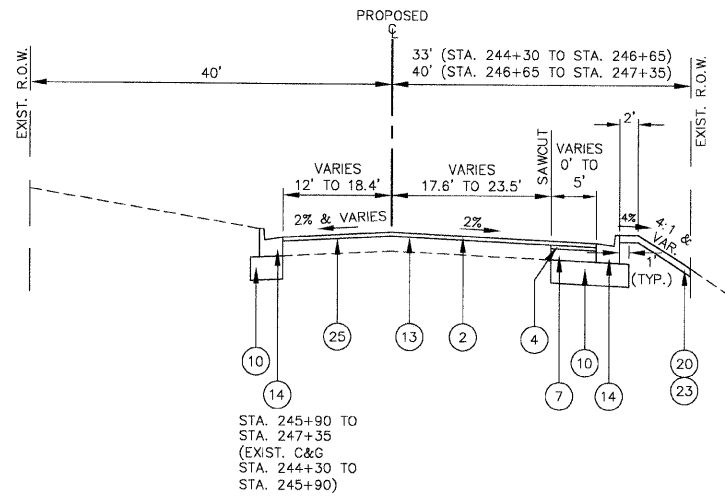


PROPOSED TYPICAL SECTION
 IL. RTE. 64
 STA. 358+76 TO STA. 361+18

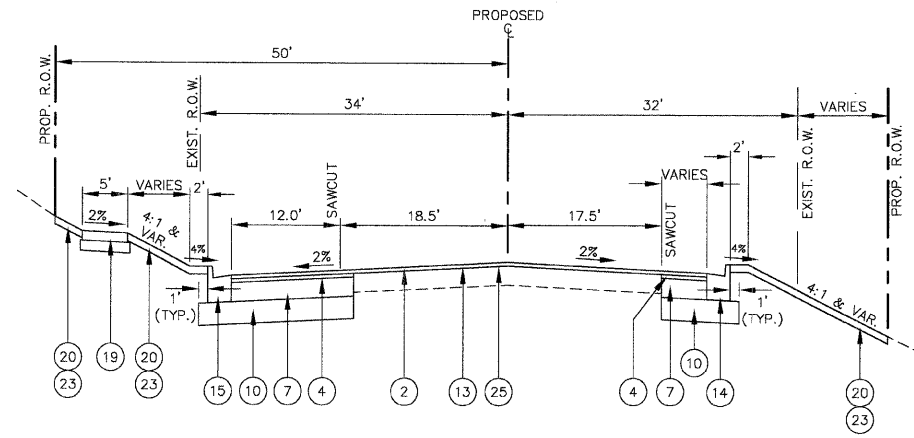
NOTE: STA. 361+18 TO STA. 364+25
 GRIND 2" (25)
 OVERLAY (1)

PROPOSED TYPICAL SECTION ITEMS

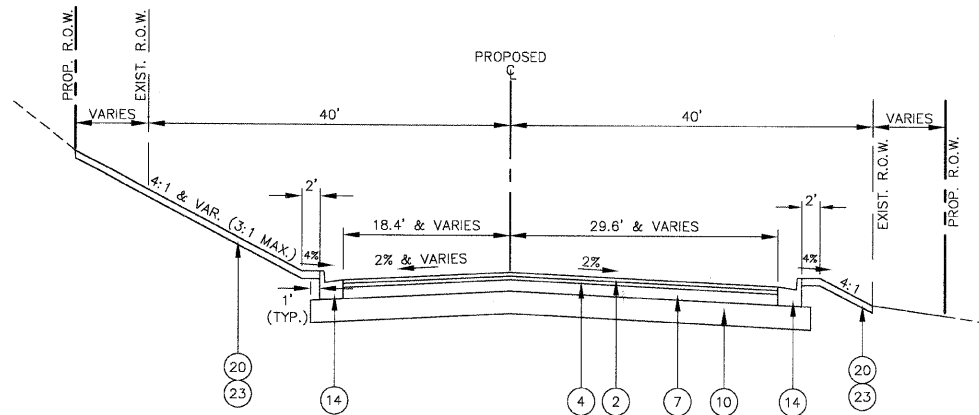
- 1 POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "F", N90, 2"
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- 6 BITUMINOUS BASE COURSE, SUPERPAVE, 8 3/4"
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- 20 TOPSOIL FURNISH AND PLACE, 4"
- 21 TOPSOIL FURNISH AND PLACE, 24" (LANDSCAPED MEDIAN, SEE LANDSCAPING PLANS FOR GRADING)
- 22 SEEDING CLASS 2A
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- 25 BITUMINOUS SURFACE REMOVAL
- 26 STABILIZED BIKE PATH BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50, 3"; AGGREGATE BASE COURSE, TYPE B, 6"; AGGREGATE SHOULDERS, TYPE B, 6"
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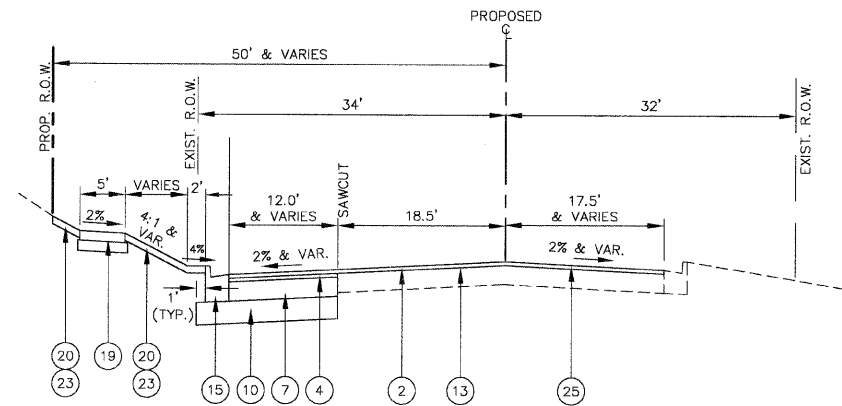
PROPOSED TYPICAL SECTION
 DEAN STREET
 STA. 244+30 TO STA. 247+50



PROPOSED TYPICAL SECTION
 DEAN STREET
 STA. 250+90 TO STA. 252+55



PROPOSED TYPICAL SECTION
 DEAN STREET
 STA. 247+50 TO STA. 248+90



PROPOSED TYPICAL SECTION
 DEAN STREET
 STA. 252+55 TO STA. 254+25

PAVEMENT DESIGN INFORMATION

RANDALL ROAD
 BITUMINOUS PAVEMENT
 CLASS I
 80000 LB
 SIX LANE URBAN
 2014 ADT 49750
 PV 45272 (91%)
 SU 2985 (6%)
 MU 1493 (3%)
 TF = 10.88
 SSR POOR
 TIED C&G
 JOINTS AT 15'
 12" AGG. SUBGRADE
 THICKNESS REQUIRED = 9.75"
 THICKNESS PROVIDED = 10"

RANDALL ROAD
 BITUMINOUS PAVEMENT
 CLASS I
 80000 LB
 FOUR LANE URBAN
 2014 ADT 37150
 PV 34920 (94%)
 SU 1115 (3%)
 MU 1115 (3%)
 TF = 6.21
 SSR POOR
 AC MIX TEMP 77"
 AC 20 PG 64-22
 MODULUS 625 KSI
 AC MICROSTRAIN 58
 THICKNESS REQUIRED = 13.5"
 THICKNESS PROVIDED = 14"

IL. ROUTE 64
 BITUMINOUS PAVEMENT
 CLASS I
 80000 LB
 FOUR LANE URBAN
 2014 ADT 33150
 PV 30829 (93%)
 SU 1658 (5%)
 MU 663 (2%)
 TF = 4.89
 SSR POOR
 AC MIX TEMP 77"
 AC 20 PG 64-22
 MODULUS 625 KSI
 AC MICROSTRAIN 63
 THICKNESS REQUIRED = 12.75"
 THICKNESS PROVIDED = 13"




DEAN STREET
 BITUMINOUS PAVEMENT
 CLASS II
 80000 LB
 TWO LANE URBAN
 2014 ADT 6100
 PV 5551 (91%)
 SU 488 (8%)
 MU 61 (1%)
 TF = 0.79
 SSR POOR
 AC MIX TEMP 77"
 AC 20 PG 64-22
 MODULUS 625 KSI
 AC MICROSTRAIN 115
 THICKNESS REQUIRED = 9.25"
 THICKNESS PROVIDED = 10"

PROPOSED TYPICAL SECTION ITEMS

- 1 POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "F", N90, 2"
- 2 BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N50, 2"
- 3 BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N90, 2 1/4"
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- 27 PIPE UNDERDRAIN, 4"


F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
CONTRACT NO.			14
83782			
STAGING NOTES AND SIGNS			
F.H.W.A. REG.5 ILLINOIS PROJECT F--0336(008)			


LEGEND

-  BARRIER - TYPE II BARRICADE, VERTICAL PANEL AND/OR DRUM W/STEADY BURN OR FLASHING LIGHT
-  TYPE III BARRICADE W/STEADY BURN OR FLASHING LIGHT
-  DIRECTION OF TRAFFIC MOVEMENT

 R4-1
30" x 36"

 R2-1
24" x 30"

 W6-3
30" x 30"

 W20-1
48" x 48"
WITH HIGH INTENSITY LIGHT AND 18"x18" ORANGE FLAG

 48" x 12"
WITH MINIMUM 6" LETTERS

 48" x 12"
WITH MINIMUM 6" LETTERS

 48" x 12"
WITH MINIMUM 6" LETTERS

 48" x 12"
WITH MINIMUM 6" LETTERS

 G20-2
60" x 24"

GENERAL NOTES FOR STAGE CONSTRUCTION AND MAINTENANCE OF TRAFFIC

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE TRAFFIC CONTROL PLANS, THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", AND/OR THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND SHALL BE IN PLACE BEFORE CONSTRUCTION COMMENCES. RANDALL ROAD, ILLINOIS ROUTE 64, DEAN STREET, AND OAK STREET EXISTING STOP AND STOP AHEAD SIGNS SHALL BE RELOCATED TO CONTROL SIDE STREET OR ENTRANCE TRAFFIC FOR THE VARIOUS STAGES OF CONSTRUCTION SHOWN.

THE TRAFFIC CONTROL PLANS SHALL SERVE AS A GUIDE FOR SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. HOWEVER, THE CONTRACTOR MAY IMPROVE OR MODIFY THE TRAFFIC CONTROL PLANS AT THEIR OWN EXPENSE FOR THEIR CONSTRUCTION NEEDS BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CONTRACTOR PROPOSED TRAFFIC CONTROL PLANS SHALL BE SUBMITTED FOR WRITTEN APPROVAL OF THE ENGINEER.

DURING STAGES 1, 1A, 2 AND 3, A MINIMUM OF FOUR 10 FOOT LANES (TWO THROUGH LANES IN EACH DIRECTION) SHALL BE KEPT OPEN AT ALL TIMES ON RANDALL ROAD AND ILLINOIS ROUTE 64. ANY PROPOSED DEVIATION FROM THIS PLAN WILL HAVE TO BE APPROVED BY IDOT, THE KANE COUNTY DIVISION OF TRANSPORTATION AND THE CITY OF ST. CHARLES.

A SHORT TERM SINGLE LANE CLOSURE MAY BE REQUIRED WHEN THERE IS LESS THAN A FOUR FOOT WORK ZONE ADJACENT TO TRAFFIC. THIS LANE CLOSURE SCHEDULE WILL NEED TO BE APPROVED BY IDOT, THE KANE COUNTY DIVISION OF TRANSPORTATION AND THE CITY OF ST. CHARLES.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND TRAFFIC CONTROL DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

REMOVE EXISTING PAVEMENT MARKINGS AND PAVEMENT MARKERS IF IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS SHOWN IN THE STAGE CONSTRUCTION PLANS. REMOVE MEDIAN AT ILLINOIS ROUTE 64 AND RANDALL ROAD. FILL RESULTANT HOLE WITH TEMPORARY PAVEMENT FOR MAINTENANCE OF TRAFFIC.

THE FOLLOWING TEMPORARY PAVEMENT MARKINGS SHALL BE USED IN EACH OF THE VARIOUS STAGES OF CONSTRUCTION AS REQUIRED:

- 4" WHITE EDGE LINE - EACH EDGE
- 4" WHITE SKIP-DASH (30' SPACE - 10' DASH) - BETWEEN LANES
- 4" DOUBLE YELLOW - MEDIANS AND BETWEEN OPPOSING LANES
- 6" WHITE SKIP - DASH (6' SPACE - 2' DASH) - TURN BAY
- 6" WHITE LANE LINE - STORAGE AREA TURN BAY
- 12" YELLOW DIAGONALS
- 24" WHITE STOP BAR - ALL LOCATIONS
- WHITE LETTERS AND SYMBOLS - TURN LANES

PLATING AND/OR DRAINAGE STRUCTURE ADJUSTMENTS MAY BE REQUIRED DUE TO THE STAGING OF THE CONSTRUCTION. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF TRAFFIC CONTROL FOR THIS CONTRACT.

CONSTRUCTION STAGING SEQUENCE

INSTALL CHANGEABLE MESSAGE BOARDS (4 TOTAL) ON NORTHBOUND AND SOUTHBOUND RANDALL ROAD AND EASTBOUND AND WESTBOUND ILLINOIS ROUTE 64 TWO WEEKS PRIOR TO CONSTRUCTION TO NOTIFY THE MOTORING PUBLIC CONCERNING THE UPCOMING ROADWAY CONSTRUCTION. WORK ZONE 30 MPH CONSTRUCTION SPEED LIMIT SIGNS SHALL BE POSTED ON RANDALL ROAD AND ILLINOIS ROUTE 64 THROUGHOUT CONSTRUCTION.

STAGE 1 CONSTRUCTION

INSTALL THE STAGE 1 CONSTRUCTION STAGING AS PER PLAN AND APPLICABLE IDOT STANDARDS. CONSTRUCT THE PROPOSED TEMPORARY TRAFFIC SIGNALS AS PER PLAN AND SPECIFICATIONS.

INSTALL THE TEMPORARY EROSION CONTROL DEVICES AS PER PLAN, STANDARDS AND AS DIRECTED BY ENGINEER.

REMOVE DESIGNATED TREES.

CONSTRUCT THE PROPOSED PEDESTRIAN UNDERPASS STATION 11+25 RT., APPROXIMATELY THE WESTERN THIRD AS PER THE PLAN AND SPECIFICATIONS.

CONSTRUCT THE PROPOSED STORM SEWER, WATER MAIN AND SANITARY SEWER, AS PER PLAN, WITHIN THIS STAGE.

COMMENCE THE CONSTRUCTION OF THE PROPOSED TRAFFIC SIGNALS.

CONSTRUCT THE PROPOSED BITUMINOUS PAVEMENT SECTION TO THE BINDER ELEVATION AS PER THIS STAGE.

CONSTRUCT THE PROPOSED PORTLAND CEMENT CONCRETE PAVEMENT SECTION, AS PER THIS STAGE.

CONSTRUCT THE LANDSCAPE RESTORATION WITHIN THIS STAGE.

INSTALL EROSION CONTROL DEVICES AS PER PLAN AND AS DIRECTED BY ENGINEER.

STAGE 1A CONSTRUCTION

INSTALL THE STAGE 1A CONSTRUCTION STAGING AS PER PLAN AND APPLICABLE IDOT STANDARDS. ADJUST THE TEMPORARY TRAFFIC SIGNALS HEADS TO FUNCTION WITH THE NEW TEMPORARY LANE CONFIGURATIONS.

INSTALL THE TEMPORARY EROSION CONTROL DEVICES AS PER PLAN, STANDARDS AND AS DIRECTED BY ENGINEER.

CONSTRUCT THE PROPOSED PEDESTRIAN UNDERPASS STATION 11+25 CENTERLINE, APPROXIMATELY THE CENTER THIRD AS PER THE PLAN AND SPECIFICATIONS.

CONSTRUCT THE PROPOSED STORM SEWER, WATER MAIN AND SANITARY SEWER, AS PER PLAN, WITHIN THIS STAGE.

CONTINUE THE CONSTRUCTION OF THE PROPOSED TRAFFIC SIGNALS.

CONSTRUCT THE PROPOSED BITUMINOUS PAVEMENT SECTION TO THE BINDER ELEVATION AS PER THIS STAGE.

CONSTRUCT THE PROPOSED PORTLAND CEMENT CONCRETE PAVEMENT SECTION, AS PER THIS STAGE.

CONSTRUCT THE LANDSCAPE RESTORATION WITHIN THIS STAGE.

INSTALL EROSION CONTROL DEVICES AS PER PLAN AND AS DIRECTED BY ENGINEER.

STAGE 2 CONSTRUCTION

INSTALL THE STAGE 2 CONSTRUCTION STAGING AS PER PLAN AND APPLICABLE IDOT STANDARDS. ADJUST THE TEMPORARY TRAFFIC SIGNALS HEADS TO FUNCTION WITH THE NEW TEMPORARY LANE CONFIGURATIONS.

INSTALL THE TEMPORARY EROSION CONTROL DEVICES AS PER PLAN, STANDARDS AND AS DIRECTED BY ENGINEER.

CONSTRUCT THE PROPOSED PEDESTRIAN UNDERPASS STATION 11+25 LT., APPROXIMATELY THE EASTERN THIRD AS PER THE PLAN AND SPECIFICATIONS.

CONSTRUCT THE PROPOSED STORM SEWER, WATER MAIN AND SANITARY SEWER, AS PER PLAN, WITHIN THIS STAGE.

CONTINUE THE CONSTRUCTION OF THE PROPOSED TRAFFIC SIGNALS.

CONSTRUCT THE PROPOSED BITUMINOUS PAVEMENT SECTION TO THE BINDER ELEVATION AS PER THIS STAGE.

CONSTRUCT THE PROPOSED PORTLAND CEMENT CONCRETE PAVEMENT SECTION, AS PER THIS STAGE.

CONSTRUCT THE LANDSCAPE RESTORATION WITHIN THIS STAGE.

INSTALL EROSION CONTROL DEVICES AS PER PLAN AND AS DIRECTED BY ENGINEER.

STAGE 3 CONSTRUCTION

INSTALL THE STAGE 3 CONSTRUCTION STAGING AS PER PLAN AND APPLICABLE IDOT STANDARDS. ADJUST THE TEMPORARY TRAFFIC SIGNAL HEADS TO FUNCTION WITH THE NEW TEMPORARY LANE CONFIGURATIONS.

INSTALL THE TEMPORARY EROSION CONTROL DEVICES AS PER PLAN, STANDARDS AND AS DIRECTED BY ENGINEER.

COMPLETE THE PROPOSED STORM SEWER, WATER MAIN AND SANITARY SEWER, AS PER PLAN, WITHIN THIS STAGE.

COMPLETE THE CONSTRUCTION OF THE PROPOSED TRAFFIC SIGNALS.

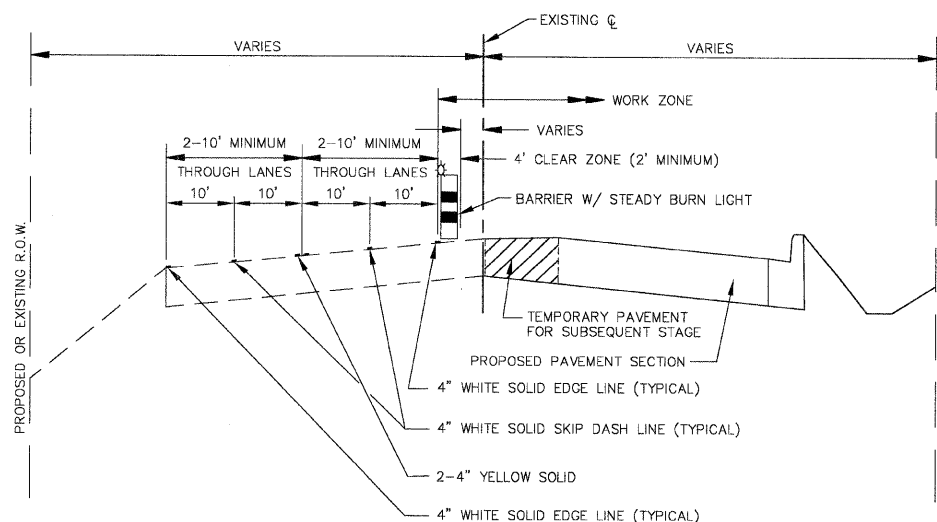
CONSTRUCT THE RAISED CONCRETE MEDIAN AND COMBINATION CURB AND GUTTER AS PER PLAN.

COMPLETE THE PROPOSED BITUMINOUS PAVEMENT SECTION.

COMPLETE THE PROPOSED PORTLAND CEMENT CONCRETE PAVEMENT.

COMPLETE THE LANDSCAPE RESTORATION OF THE PROJECT.

INSTALL EROSION CONTROL DEVICES AS PER PLAN AND AS DIRECTED BY ENGINEER.

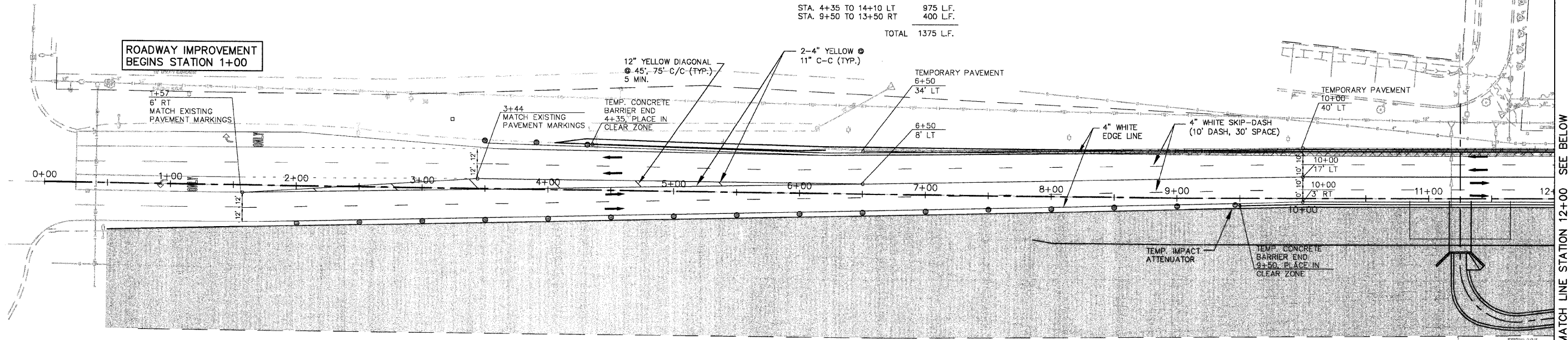


TYPICAL STAGE CONSTRUCTION CROSS SECTION

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
CONTRACT NO. 83782			15
STAGE 1 RANDALL ROAD			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			

TEMPORARY CONCRETE BARRIER

LOCATION	QUANTITY
STA. 4+35 TO 14+10 LT	975 L.F.
STA. 9+50 TO 13+50 RT	400 L.F.
TOTAL	1375 L.F.

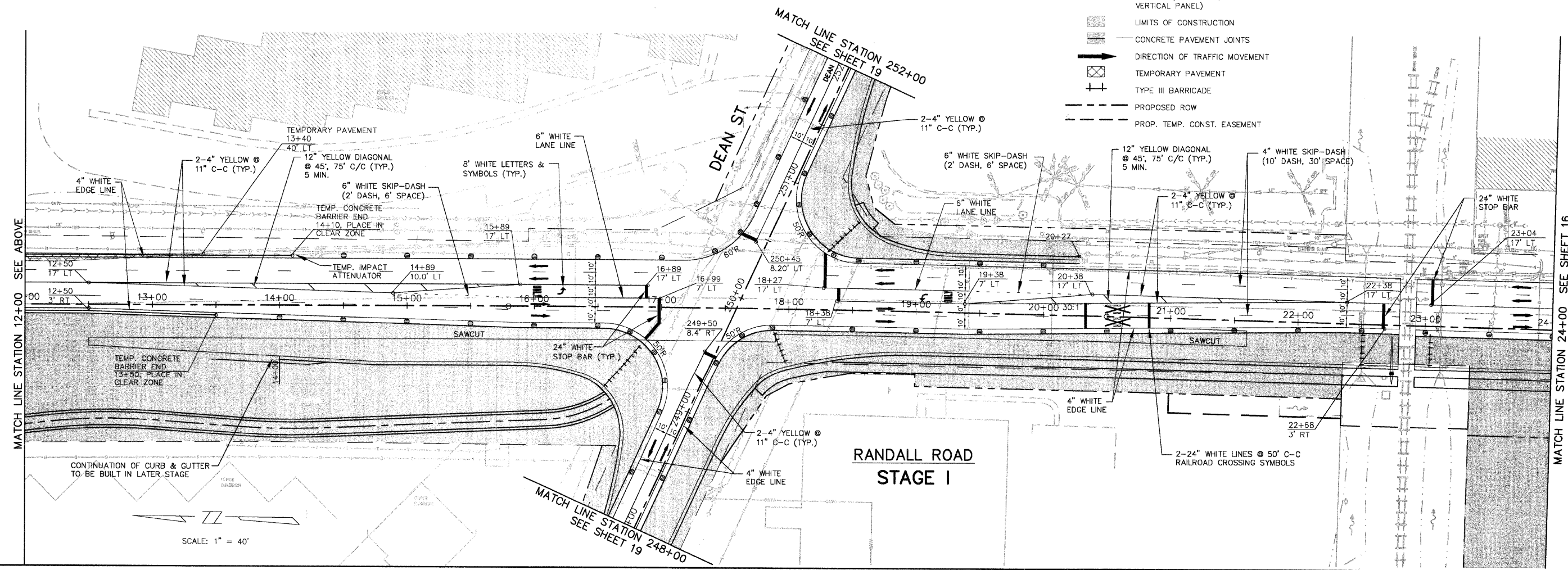


RANDALL ROAD
STAGE I

SCALE: 1" = 40'

LEGEND

- TRAFFIC CONTROL DEVICE
W/ STEADY BURN LIGHT
- OR - (BARRICADE, DRUM
VERTICAL PANEL)
- ▨ LIMITS OF CONSTRUCTION
- ▨ CONCRETE PAVEMENT JOINTS
- ➔ DIRECTION OF TRAFFIC MOVEMENT
- ▨ TEMPORARY PAVEMENT
- ⊥ TYPE III BARRICADE
- - - PROPOSED ROW
- - - PROP. TEMP. CONST. EASEMENT



RANDALL ROAD
STAGE I

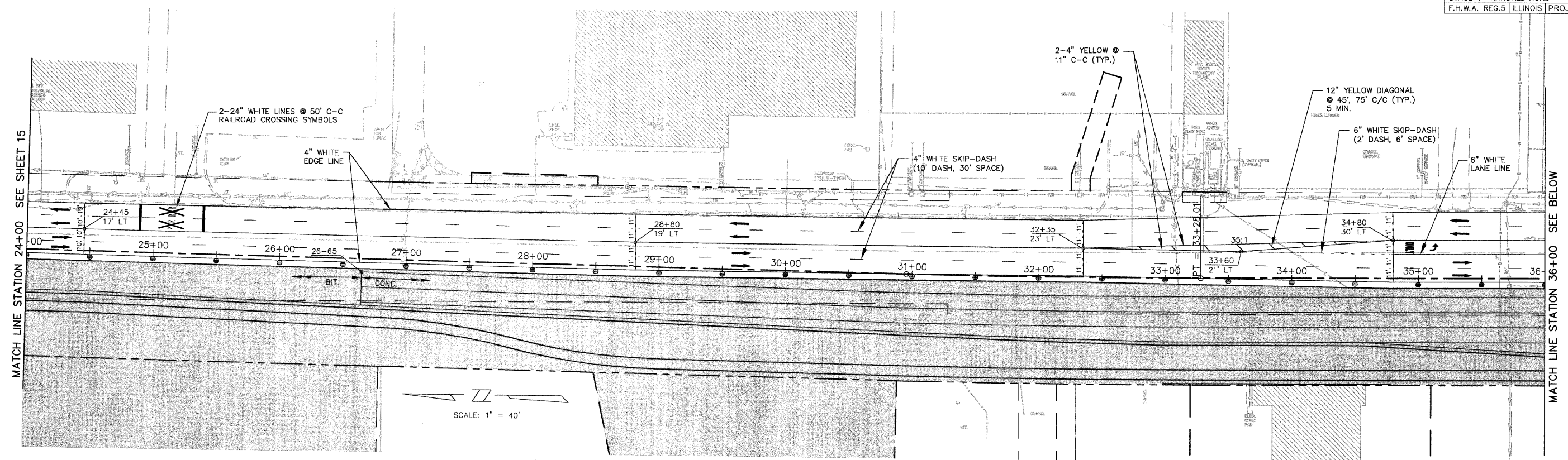
SCALE: 1" = 40'

MATCH LINE STATION 12+00 SEE BELOW

MATCH LINE STATION 12+00 SEE ABOVE

MATCH LINE STATION 24+00 SEE SHEET 16

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
CONTRACT NO.			16
83782			
STAGE 1 RANDALL ROAD			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



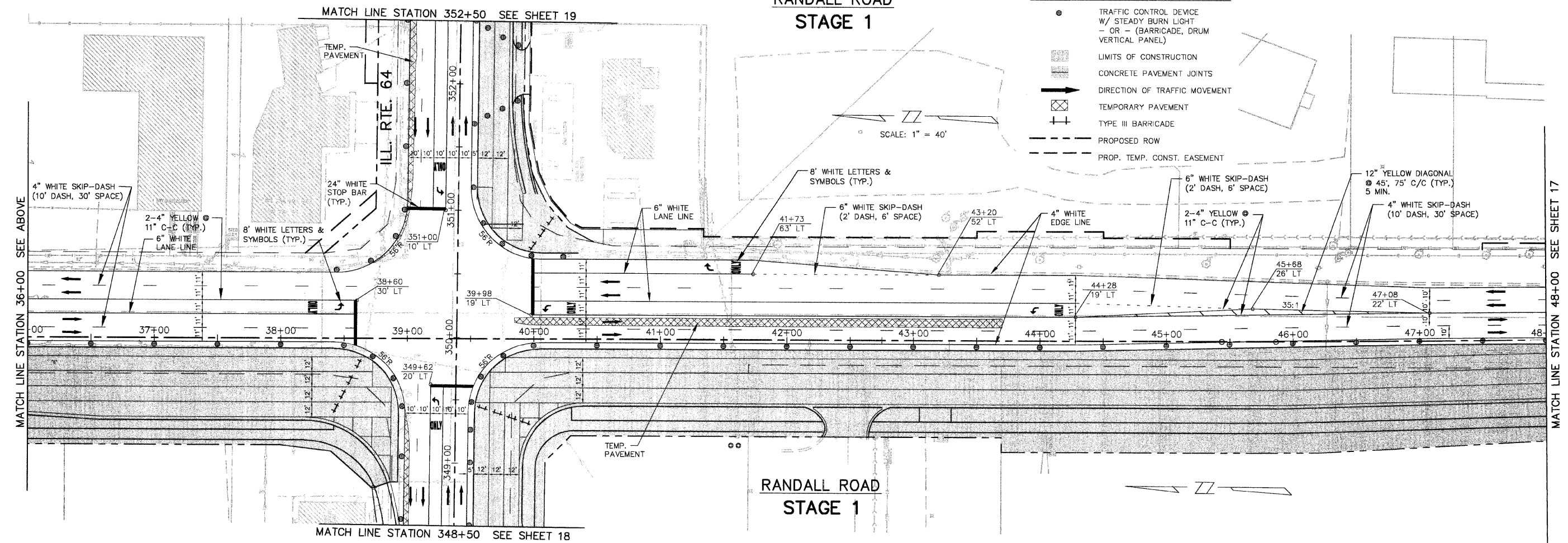
SCALE: 1" = 40'

**RANDALL ROAD
STAGE 1**

LEGEND

- TRAFFIC CONTROL DEVICE W/ STEADY BURN LIGHT
- OR - (BARRICADE, DRUM VERTICAL PANEL)
- ▨ LIMITS OF CONSTRUCTION
- ▨ CONCRETE PAVEMENT JOINTS
- ➔ DIRECTION OF TRAFFIC MOVEMENT
- ▨ TEMPORARY PAVEMENT
- ⊥ TYPE III BARRICADE
- - - PROPOSED ROW
- - - PROP. TEMP. CONST. EASEMENT

SCALE: 1" = 40'



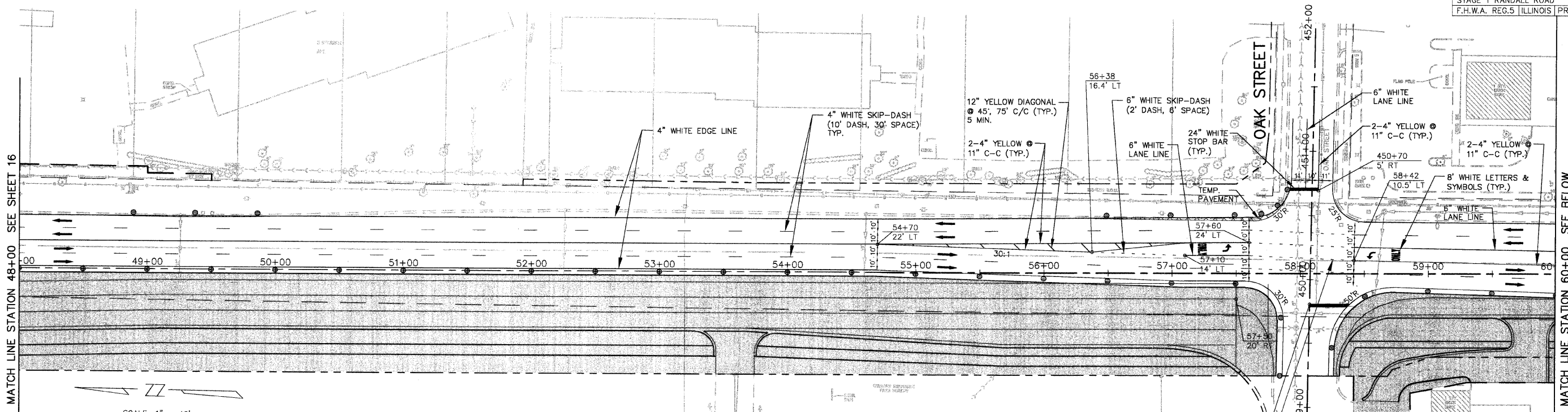
**RANDALL ROAD
STAGE 1**

MATCH LINE STATION 348+50 SEE SHEET 18

MATCH LINE STATION 36+00 SEE ABOVE

MATCH LINE STATION 48+00 SEE SHEET 17

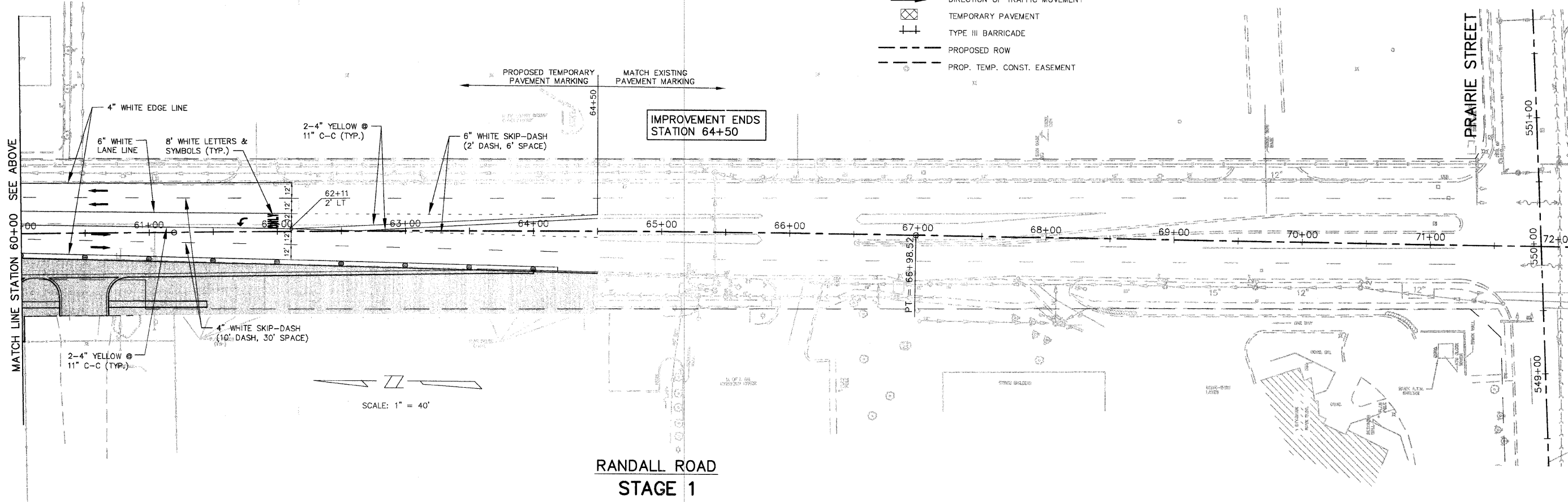
F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	SHTS. NO.
	CONTRACT NO.		268 17
	83782		
STAGE 1 RANDALL ROAD			PROJECT F-0336(00B)
F.H.W.A. REG.5 ILLINOIS			



SCALE: 1" = 40'

**RANDALL ROAD
STAGE 1**

- LEGEND**
- TRAFFIC CONTROL DEVICE W/ STEADY BURN LIGHT
 - OR - (BARRICADE, DRUM VERTICAL PANEL)
 - ▨ LIMITS OF CONSTRUCTION
 - ▩ CONCRETE PAVEMENT JOINTS
 - ➔ DIRECTION OF TRAFFIC MOVEMENT
 - ▨ TEMPORARY PAVEMENT
 - ⊕ TYPE III BARRICADE
 - - - PROPOSED ROW
 - - - PROP. TEMP. CONST. EASEMENT



SCALE: 1" = 40'

**RANDALL ROAD
STAGE 1**

MATCH LINE STATION 48+00 SEE SHEET 16

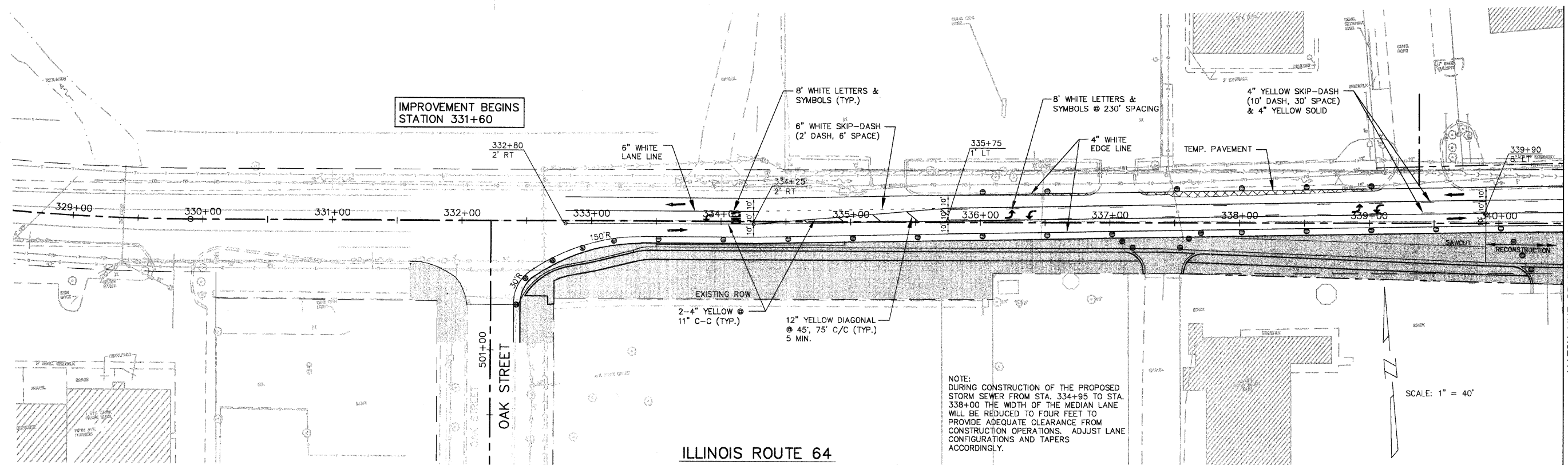
MATCH LINE STATION 60+00 SEE BELOW

MATCH LINE STATION 60+00 SEE ABOVE

MATCH LINE STATION 72+00 SEE BELOW

IMPROVEMENT ENDS STATION 64+50

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
CONTRACT NO.	83782		18
STAGE 1 ILLINOIS ROUTE 64			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			

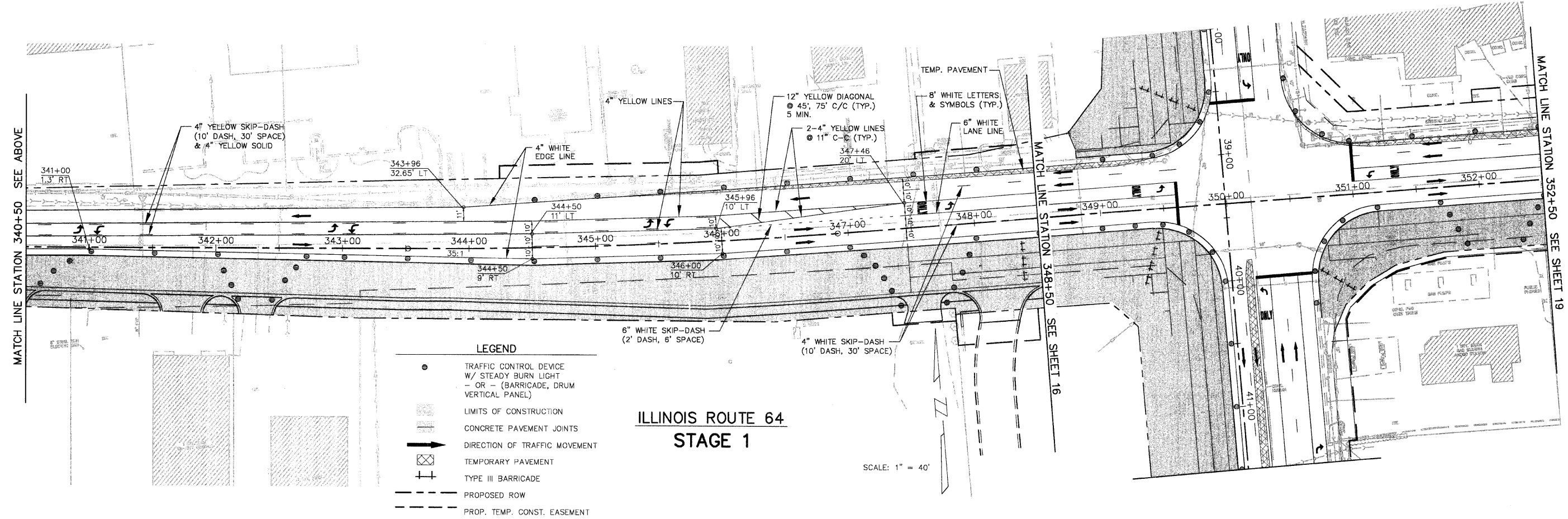


**ILLINOIS ROUTE 64
 STAGE 1**

NOTE:
 DURING CONSTRUCTION OF THE PROPOSED
 STORM SEWER FROM STA. 334+95 TO STA.
 338+00 THE WIDTH OF THE MEDIAN LANE
 WILL BE REDUCED TO FOUR FEET TO
 PROVIDE ADEQUATE CLEARANCE FROM
 CONSTRUCTION OPERATIONS. ADJUST LANE
 CONFIGURATIONS AND TAPERS
 ACCORDINGLY.

SCALE: 1" = 40'

MATCH LINE STATION 340+50 SEE BELOW

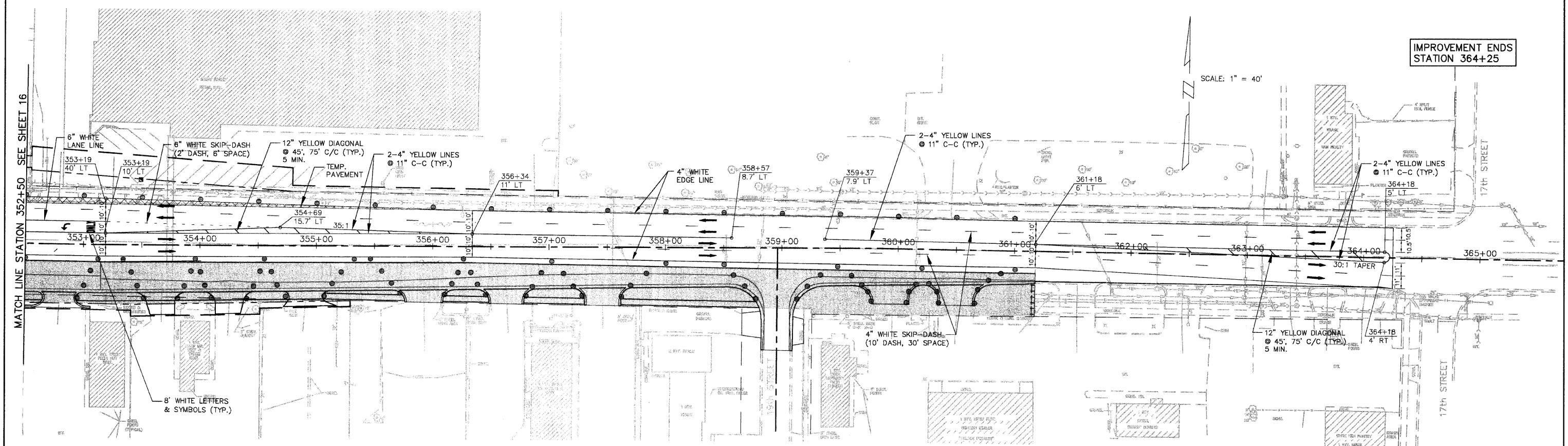


**ILLINOIS ROUTE 64
 STAGE 1**

SCALE: 1" = 40'

- LEGEND**
- TRAFFIC CONTROL DEVICE W/ STEADY BURN LIGHT
 - OR - (BARRICADE, DRUM VERTICAL PANEL)
 - ▨ LIMITS OF CONSTRUCTION
 - ▨ CONCRETE PAVEMENT JOINTS
 - ➔ DIRECTION OF TRAFFIC MOVEMENT
 - ▨ TEMPORARY PAVEMENT
 - ⊥ TYPE III BARRICADE
 - PROPOSED ROW
 - - - PROP. TEMP. CONST. EASEMENT

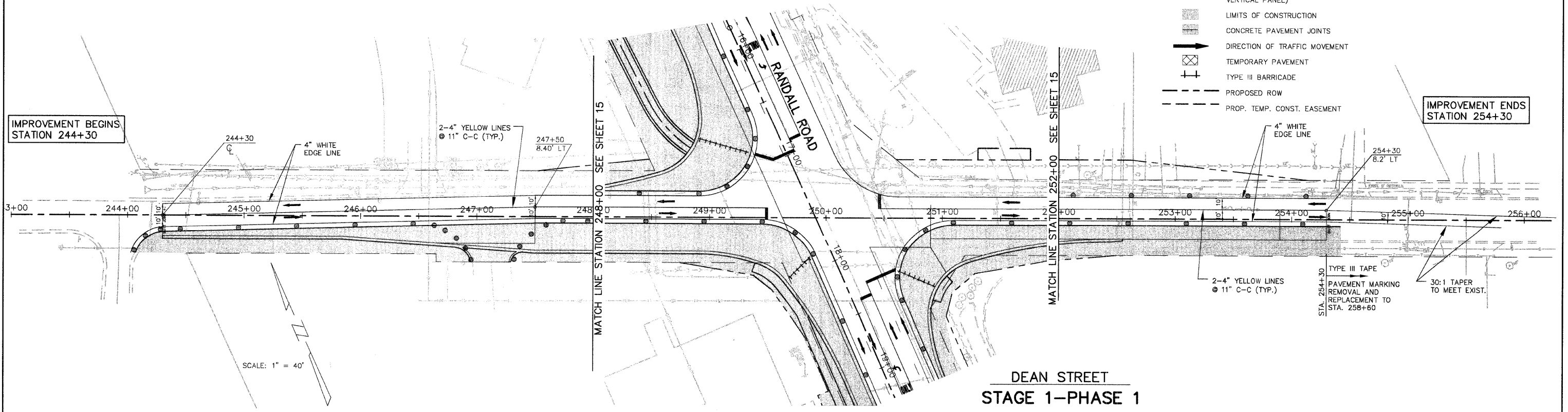
F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
	CONTRACT NO.		19
	83782		
STAGE 1 ILLINOIS ROUTE 64 & DEAN STREET			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(00B)			



ILLINOIS ROUTE 64
 STAGE 1

LEGEND

- TRAFFIC CONTROL DEVICE W/ STEADY BURN LIGHT - OR - (BARRICADE, DRUM VERTICAL PANEL)
- ▨ LIMITS OF CONSTRUCTION
- ▨ CONCRETE PAVEMENT JOINTS
- ➔ DIRECTION OF TRAFFIC MOVEMENT
- ⊠ TEMPORARY PAVEMENT
- ⊠ TYPE III BARRICADE
- PROPOSED ROW
- - - PROP. TEMP. CONST. EASEMENT



DEAN STREET
 STAGE 1-PHASE 1

IMPROVEMENT BEGINS STATION 244+30

IMPROVEMENT ENDS STATION 254+30

SCALE: 1" = 40'

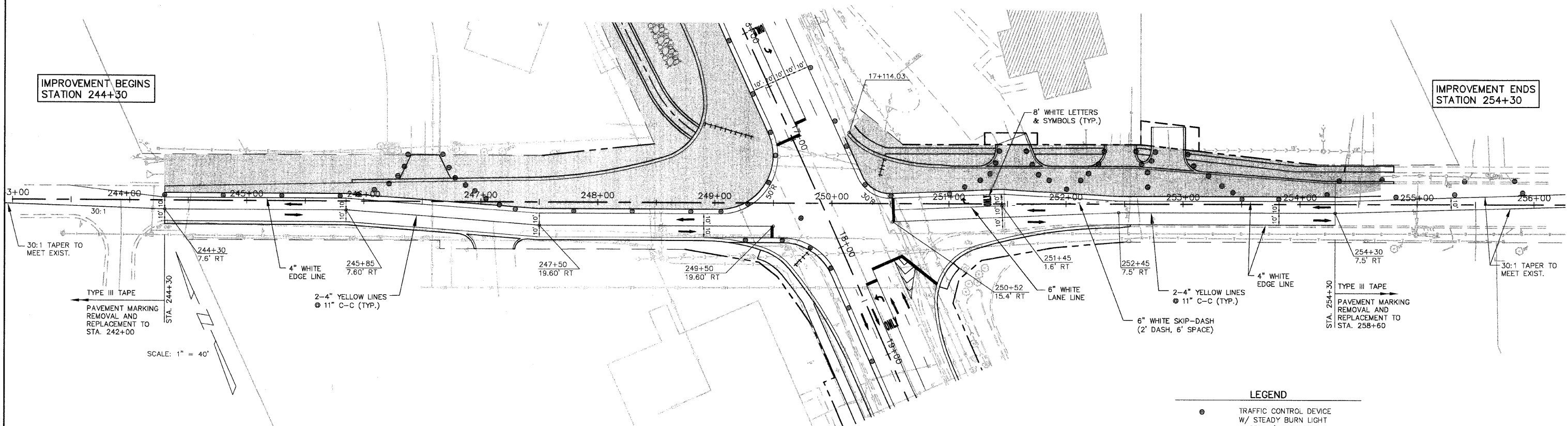
SCALE: 1" = 40'

MATCH LINE STATION 352+50 SEE SHEET 16

MATCH LINE STATION 248+00 SEE SHEET 15

MATCH LINE STATION 252+00 SEE SHEET 15

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
	CONTRACT NO.		NO.
	83782		20
STAGE 1A DEAN STREET		PROJECT F-0336(008)	
F.H.W.A. REG.5 ILLINOIS			



DEAN STREET
 STAGE 1-PHASE 2

LEGEND

- TRAFFIC CONTROL DEVICE
 W/ STEADY BURN LIGHT
 - - - (BARRICADE, DRUM
 VERTICAL PANEL)
- ▨ LIMITS OF CONSTRUCTION
- ▧ CONCRETE PAVEMENT JOINTS
- DIRECTION OF TRAFFIC MOVEMENT
- ▩ TEMPORARY PAVEMENT
- ⊥ TYPE III BARRICADE
- - - PROPOSED ROW
- - - PROP. TEMP. CONST. EASEMENT

IMPROVEMENT BEGINS
 STATION 244+30

IMPROVEMENT ENDS
 STATION 254+30

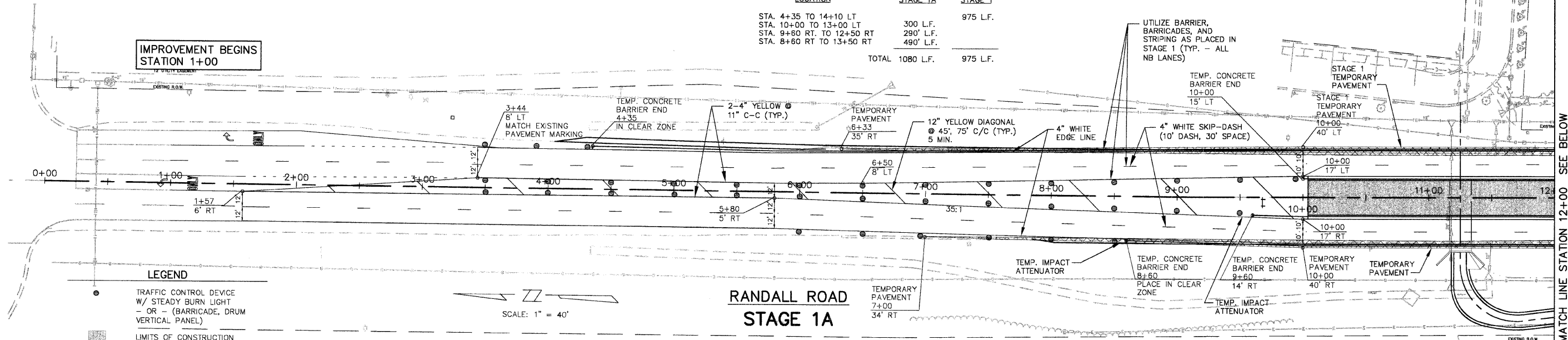
SCALE: 1" = 40'

TYPE III TAPE
 PAVEMENT MARKING
 REMOVAL AND
 REPLACEMENT TO
 STA. 242+00

TYPE III TAPE
 PAVEMENT MARKING
 REMOVAL AND
 REPLACEMENT TO
 STA. 258+60

LOCATION	QUANTITY STAGE 1A	QUANTITY STAGE 1
STA. 4+35 TO 14+10 LT	300 L.F.	975 L.F.
STA. 10+00 TO 13+00 LT	290' L.F.	
STA. 9+60 RT. TO 12+50 RT	490' L.F.	
STA. 8+60 RT TO 13+50 RT		
TOTAL	1080 L.F.	975 L.F.

IMPROVEMENT BEGINS
STATION 1+00



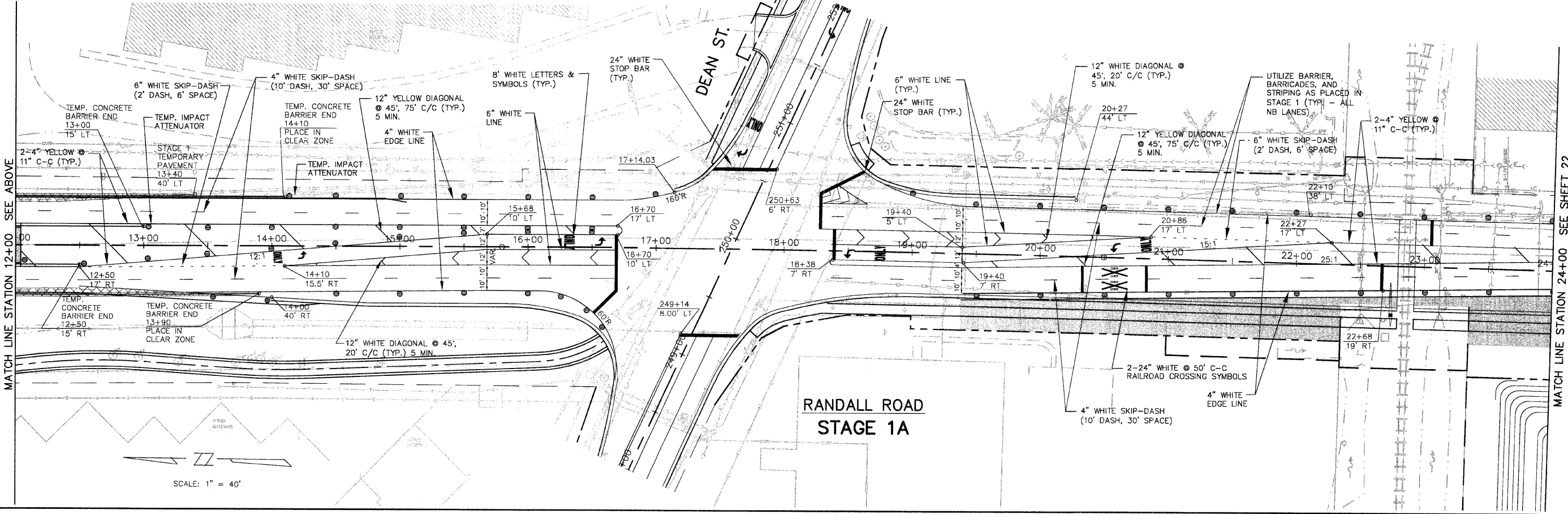
LEGEND

- TRAFFIC CONTROL DEVICE W/ STEADY BURN LIGHT
- OR - (BARRICADE, DRUM VERTICAL PANEL)
- ▨ LIMITS OF CONSTRUCTION
- ▨ CONCRETE PAVEMENT JOINTS
- ➔ DIRECTION OF TRAFFIC MOVEMENT
- ▨ TEMPORARY PAVEMENT
- ⊥ TYPE III BARRICADE
- - - PROPOSED ROW
- - - PROP. TEMP. CONST. EASEMENT

SCALE: 1" = 40'

**RANDALL ROAD
STAGE 1A**

MATCH LINE STATION 12+00 SEE BELOW



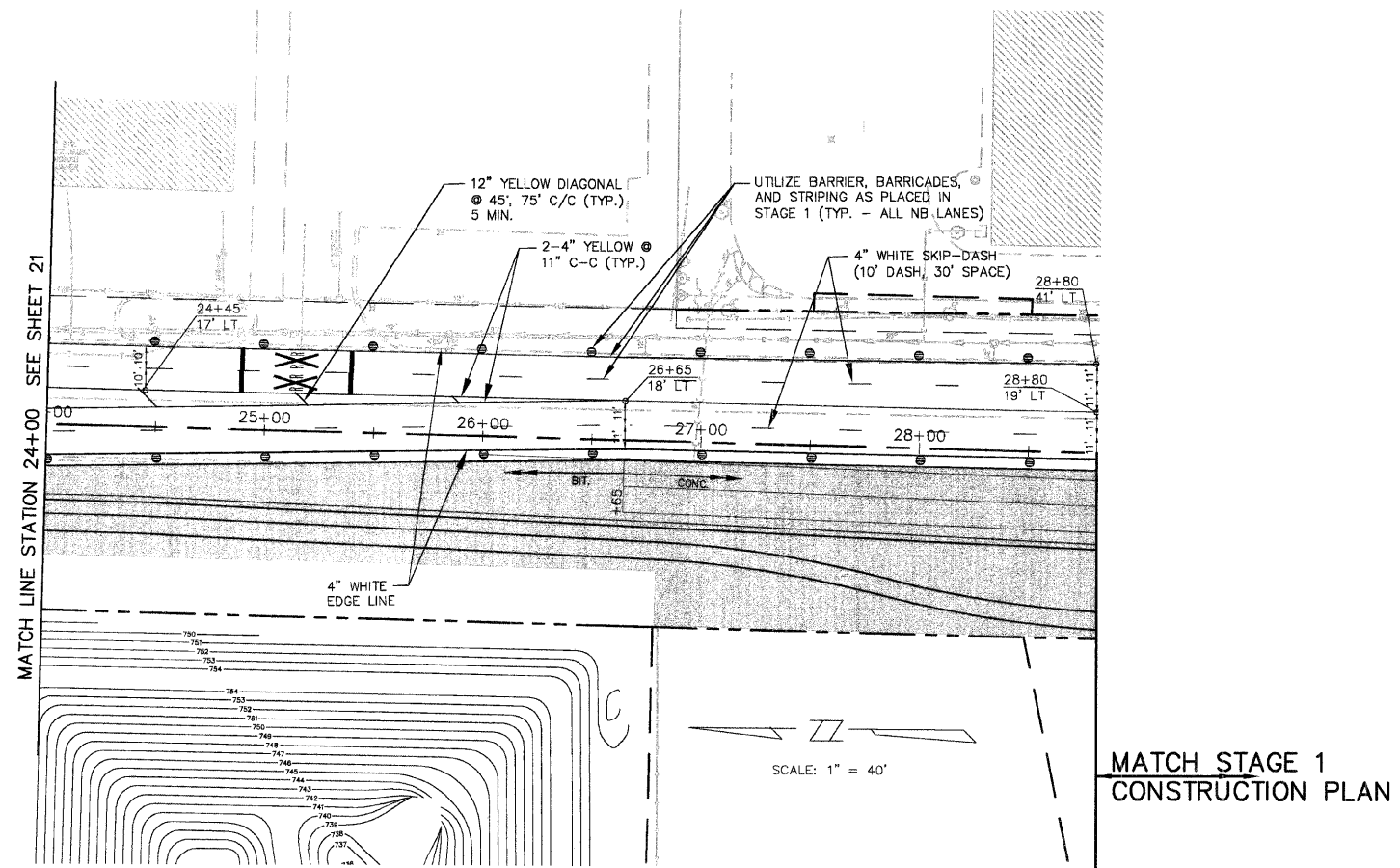
SCALE: 1" = 40'

**RANDALL ROAD
STAGE 1A**

MATCH LINE STATION 12+00 SEE ABOVE

MATCH LINE STATION 24+00 SEE SHEET 22

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
	CONTRACT NO.		NO.
	83782		22
STAGE 1A RANDALL ROAD & DEAN STREET			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



**RANDALL ROAD
 STAGE 1A**

LEGEND	
●	TRAFFIC CONTROL DEVICE W/ STEADY BURN LIGHT - OR - (BARRICADE, DRUM VERTICAL PANEL)
▨	LIMITS OF CONSTRUCTION
— —	CONCRETE PAVEMENT JOINTS
→	DIRECTION OF TRAFFIC MOVEMENT
⊠	TEMPORARY PAVEMENT
⊕	TYPE III BARRICADE
---	PROPOSED ROW
- - -	PROP. TEMP. CONST. EASEMENT

F.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV CONTRACT NO. 83782	KANE	268 24
STAGE 2 RANDALL ROAD			
F.H.W.A. REG.5 ILLINOIS			PROJECT F-0336(008)

LEGEND

- TRAFFIC CONTROL DEVICE W/ STEADY BURN LIGHT
- OR - (BARRICADE, DRUM VERTICAL PANEL)
- ▨ LIMITS OF CONSTRUCTION
- ▩ CONCRETE PAVEMENT JOINTS
- ➔ DIRECTION OF TRAFFIC MOVEMENT
- ⊠ TEMPORARY PAVEMENT
- ⊕ TYPE III BARRICADE
- - - PROPOSED ROW
- - - PROP. TEMP. CONST. EASEMENT

NOTE:
 DAILY LANE CLOSURES OF ONE NORTHBOUND TRAFFIC LANE FOR THE CONSTRUCTION OF THE PROPOSED BITUMINOUS PAVEMENT ON THE EAST SIDE OF RANDALL ROAD FROM STA. 22+92 TO STA. 26+65, MUST BE APPROVED BY THE ENGINEER.

SCALE: 1" = 40'

MATCH LINE STATION 24+00 SEE SHEET 23

MATCH LINE STATION 36+00 SEE BELOW

**RANDALL ROAD
 STAGE 2**

MATCH LINE STATION 36+00 SEE ABOVE

MATCH LINE STATION 48+00 SEE SHEET 25

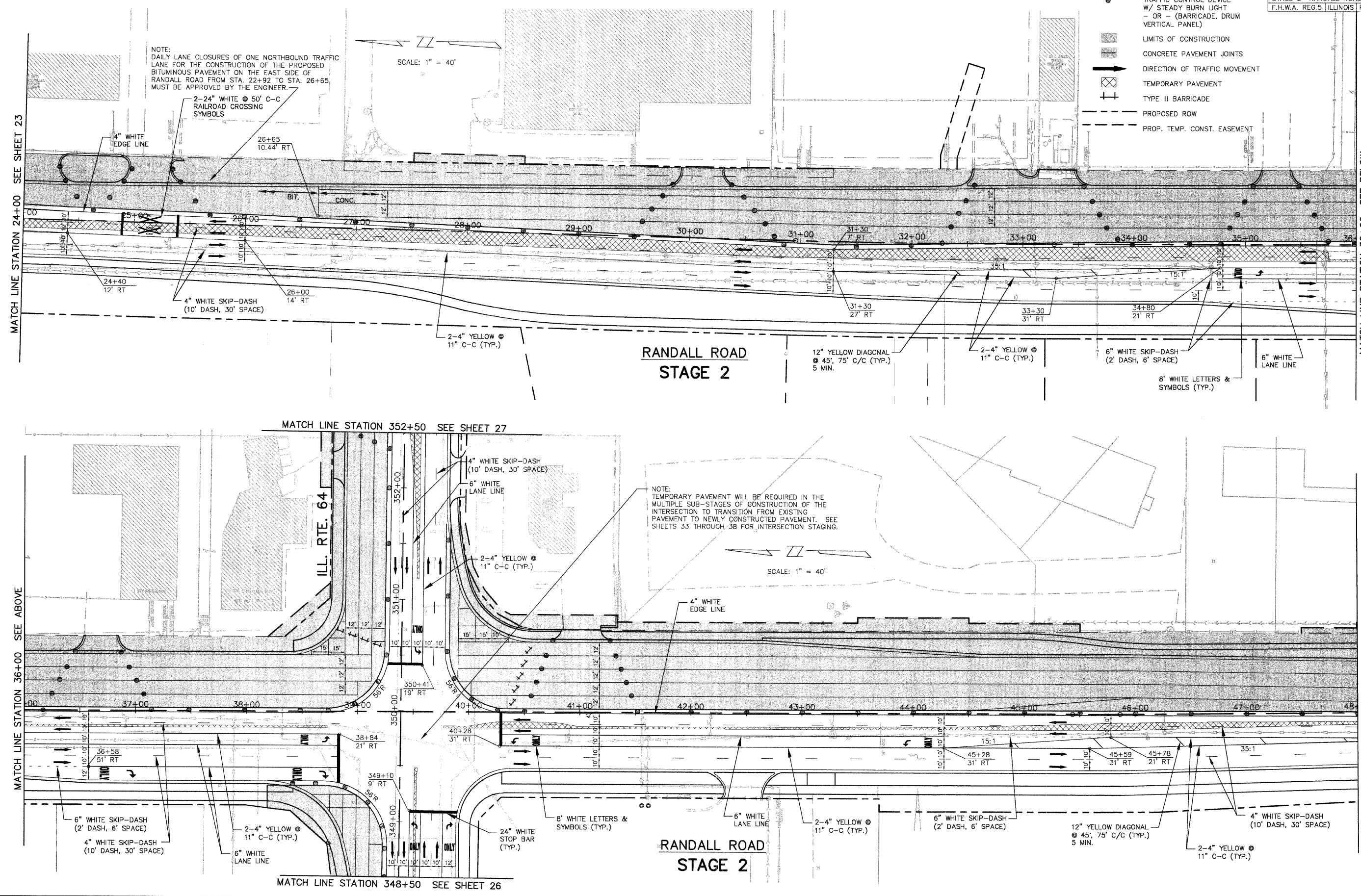
**RANDALL ROAD
 STAGE 2**

MATCH LINE STATION 348+50 SEE SHEET 26

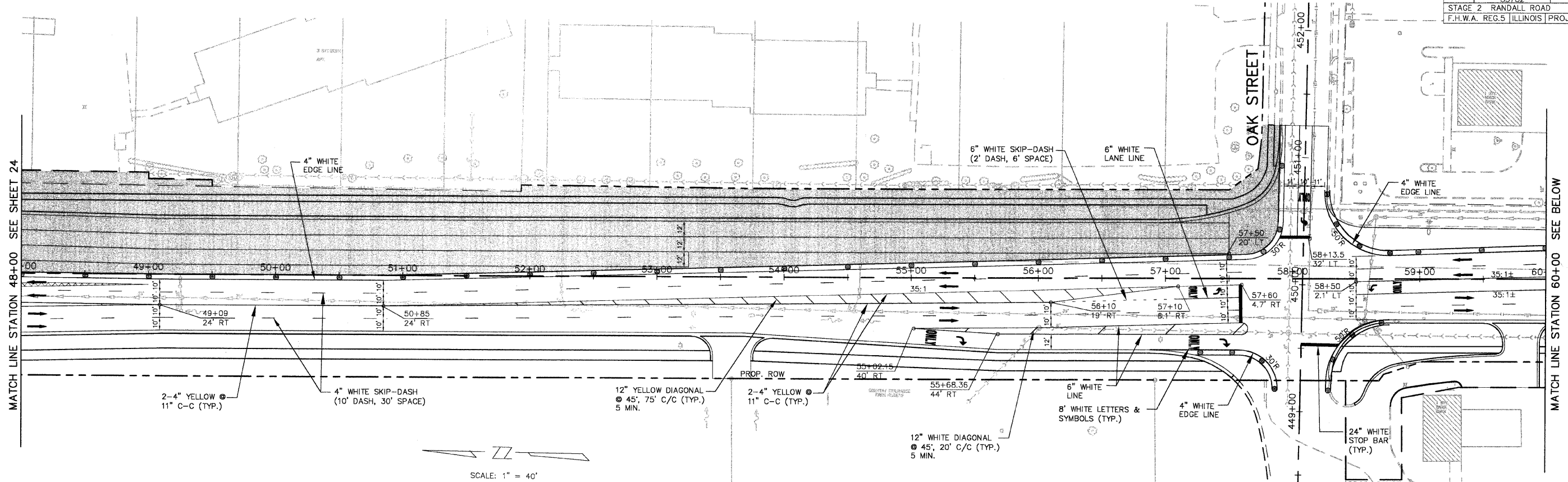
NOTE:
 TEMPORARY PAVEMENT WILL BE REQUIRED IN THE MULTIPLE SUB-STAGES OF CONSTRUCTION OF THE INTERSECTION TO TRANSITION FROM EXISTING PAVEMENT TO NEWLY CONSTRUCTED PAVEMENT. SEE SHEETS 33 THROUGH 38 FOR INTERSECTION STAGING.

SCALE: 1" = 40'

ILL. RTE. 64



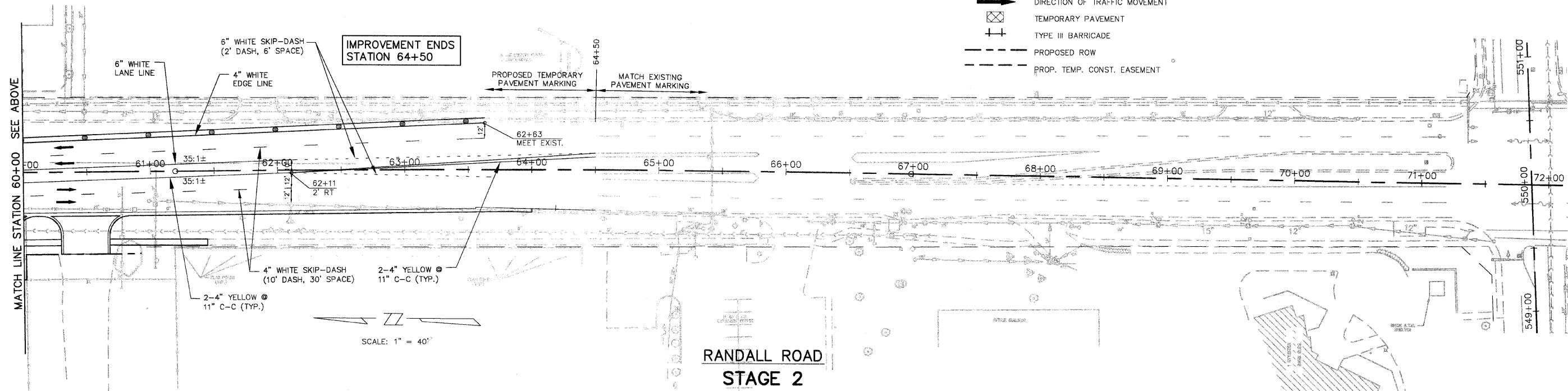
F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-0024.3-00-PV	KANE	268
CONTRACT NO.			25
83782			
STAGE 2 RANDALL ROAD			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



**RANDALL ROAD
 STAGE 2**

LEGEND

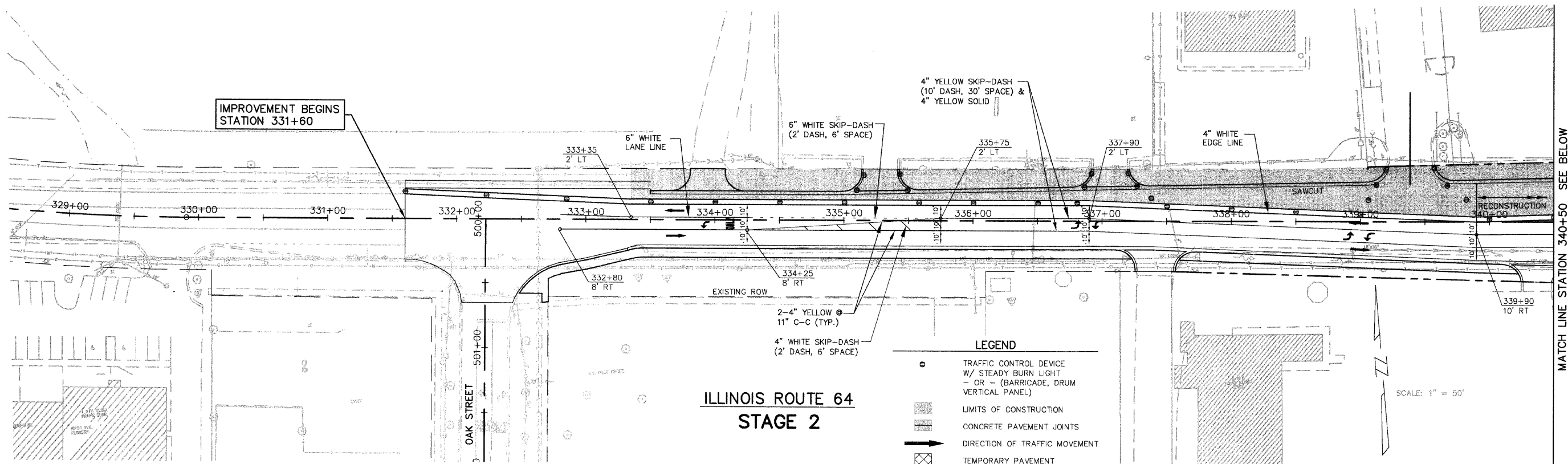
- TRAFFIC CONTROL DEVICE W/ STEADY BURN LIGHT - OR - (BARRICADE, DRUM VERTICAL PANEL)
- ▨ LIMITS OF CONSTRUCTION
- ▩ CONCRETE PAVEMENT JOINTS
- ➔ DIRECTION OF TRAFFIC MOVEMENT
- ▧ TEMPORARY PAVEMENT
- ⊥ TYPE III BARRICADE
- PROPOSED ROW
- - - PROP. TEMP. CONST. EASEMENT



**RANDALL ROAD
 STAGE 2**

PRAIRIE STREET

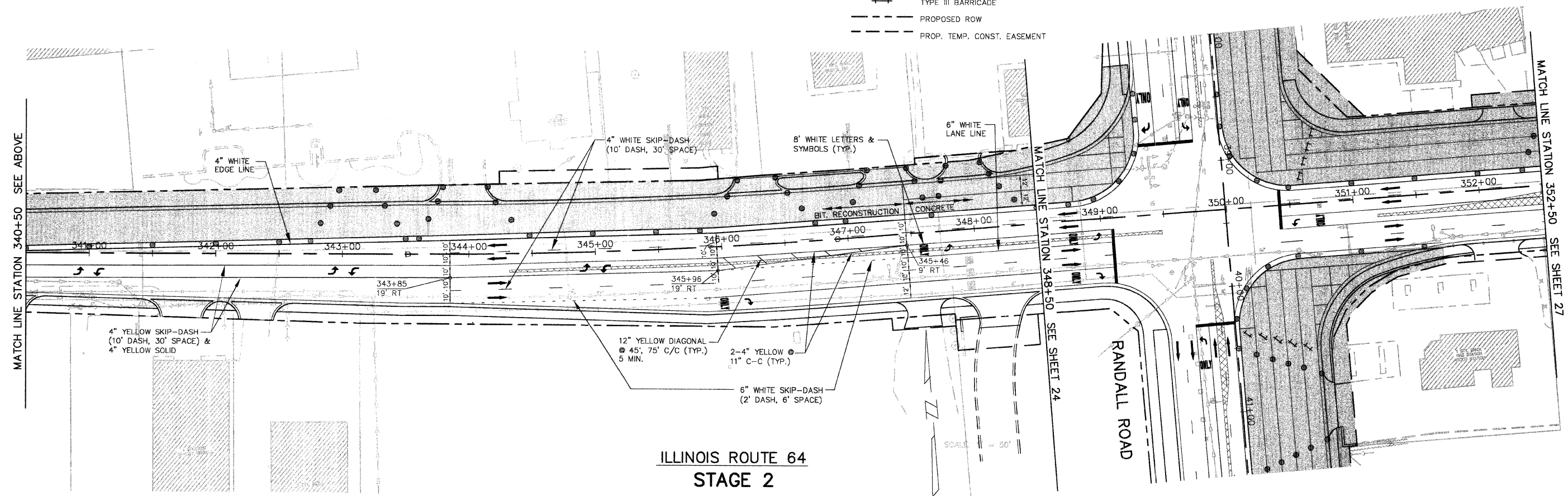
F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
CONTRACT NO. 83782			26
STAGE 2 RANDALL ROAD			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



**ILLINOIS ROUTE 64
 STAGE 2**

- LEGEND**
- TRAFFIC CONTROL DEVICE W/ STEADY BURN LIGHT - OR - (BARRICADE, DRUM VERTICAL PANEL)
 - ▨ LIMITS OF CONSTRUCTION
 - ▨ CONCRETE PAVEMENT JOINTS
 - ➔ DIRECTION OF TRAFFIC MOVEMENT
 - ▨ TEMPORARY PAVEMENT
 - ⊥ TYPE III BARRICADE
 - - - PROPOSED ROW
 - - - PROP. TEMP. CONST. EASEMENT

SCALE: 1" = 50'



**ILLINOIS ROUTE 64
 STAGE 2**

SCALE: 1" = 50'

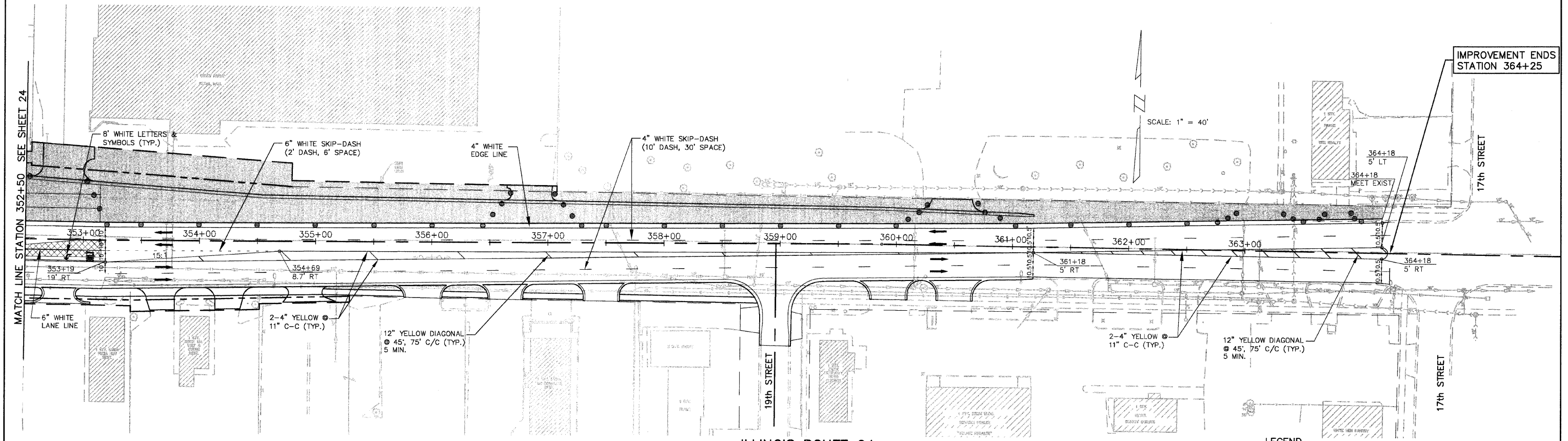
MATCH LINE STATION 340+50 SEE ABOVE

MATCH LINE STATION 340+50 SEE BELOW

MATCH LINE STATION 352+50 SEE SHEET 27

RANDALL ROAD

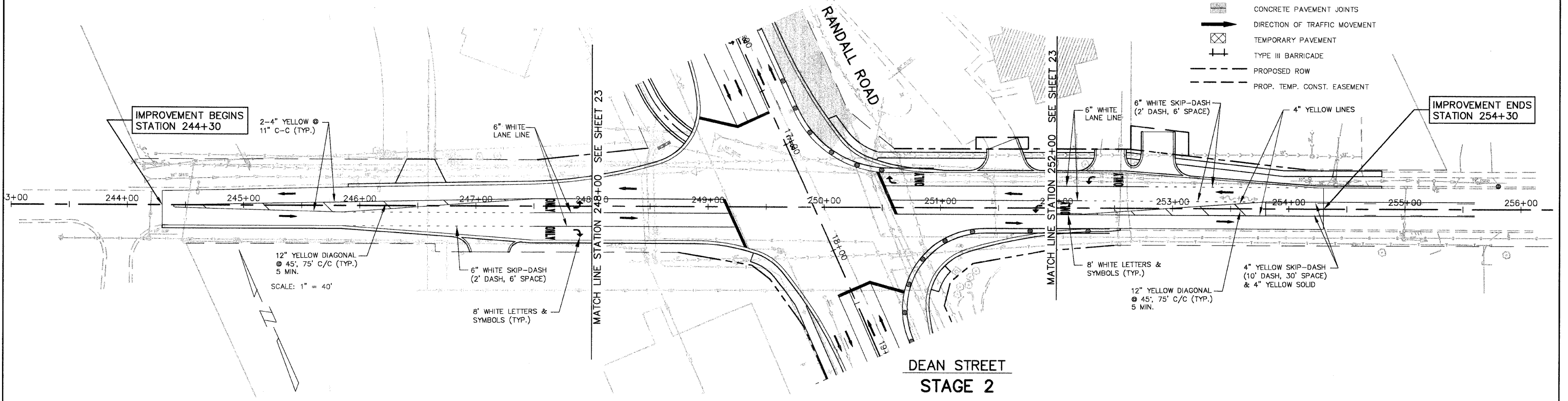
F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
CONTRACT NO. 83782			27
STAGE 2 ILLINOIS ROUTE 64 / DEAN STREET			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



**ILLINOIS ROUTE 64
STAGE 2**

LEGEND

- TRAFFIC CONTROL DEVICE W/ STEADY BURN LIGHT
- - - (BARRICADE, DRUM VERTICAL PANEL)
- ▨ LIMITS OF CONSTRUCTION
- ▩ CONCRETE PAVEMENT JOINTS
- ➔ DIRECTION OF TRAFFIC MOVEMENT
- ⊠ TEMPORARY PAVEMENT
- ⊕ TYPE III BARRICADE
- - - PROPOSED ROW
- - - PROP. TEMP. CONST. EASEMENT



**DEAN STREET
STAGE 2**

IMPROVEMENT ENDS
STATION 364+25

IMPROVEMENT ENDS
STATION 254+30

MATCH LINE STATION 352+50 SEE SHEET 24

MATCH LINE STATION 252+00 SEE SHEET 23

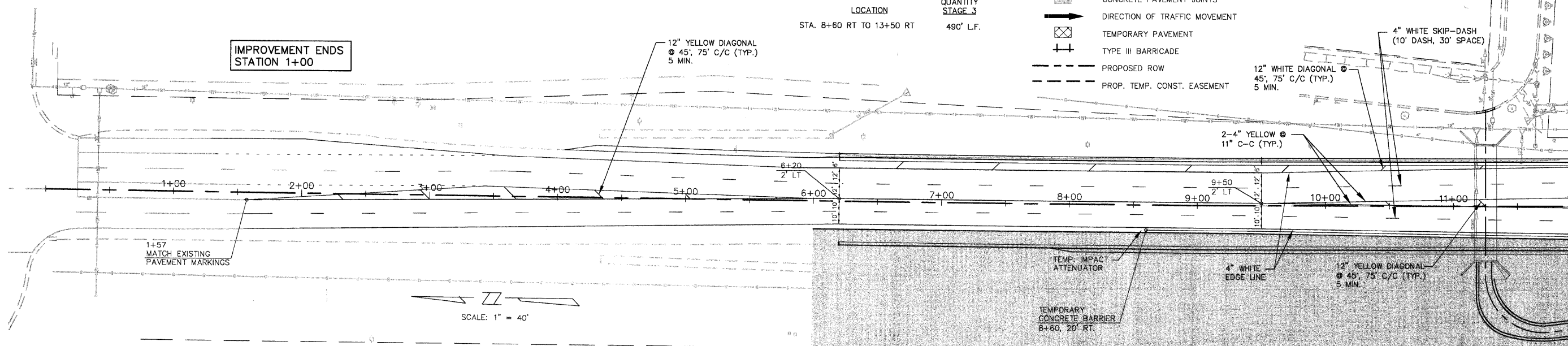
MATCH LINE STATION 248+00 SEE SHEET 23

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
CONTRACT NO. 83782			28
STAGE 3 RANDALL ROAD			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			

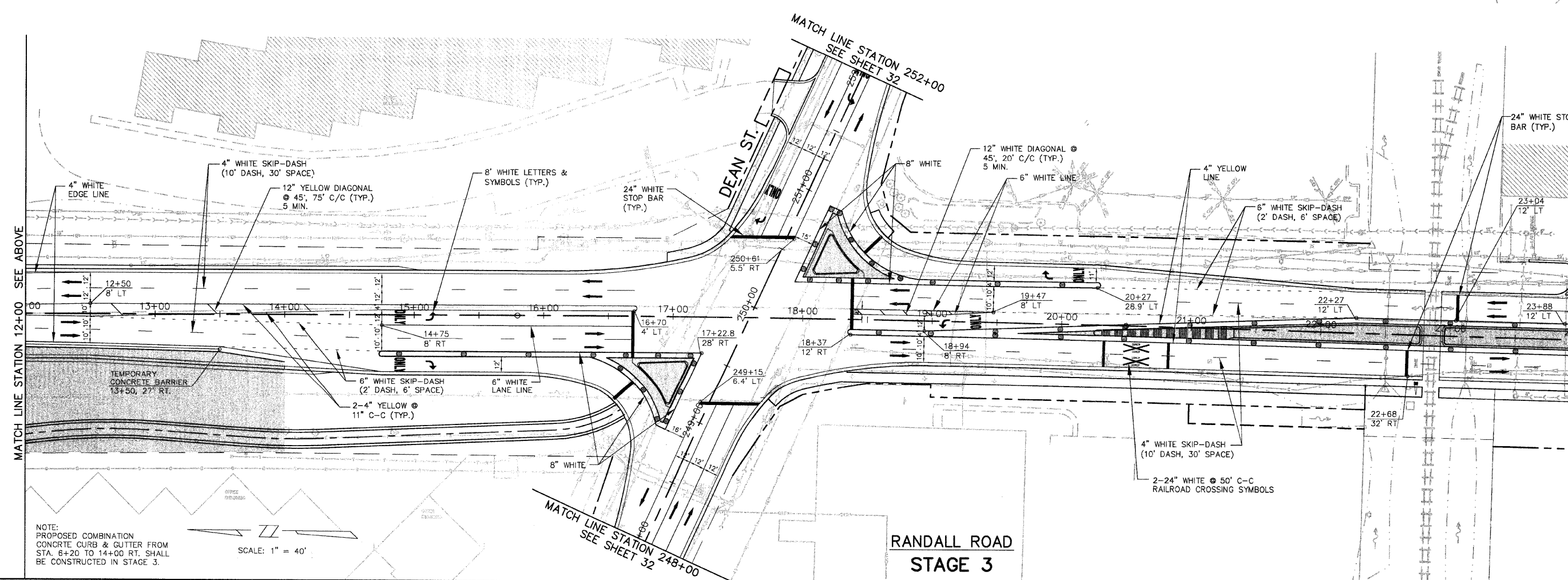
LEGEND

- TRAFFIC CONTROL DEVICE W/ STEADY BURN LIGHT
- OR - (BARRICADE, DRUM VERTICAL PANEL)
- ▨ LIMITS OF CONSTRUCTION
- ▨ CONCRETE PAVEMENT JOINTS
- ➔ DIRECTION OF TRAFFIC MOVEMENT
- ▨ TEMPORARY PAVEMENT
- ⊕ TYPE III BARRICADE
- - - PROPOSED ROW
- - - PROP. TEMP. CONST. EASEMENT

TEMPORARY CONCRETE BARRIER
LOCATION: STA. 8+60 RT TO 13+50 RT
QUANTITY: 490' L.F.



**RANDALL ROAD
STAGE 3**



**RANDALL ROAD
STAGE 3**

MATCH LINE STATION 12+00 SEE ABOVE

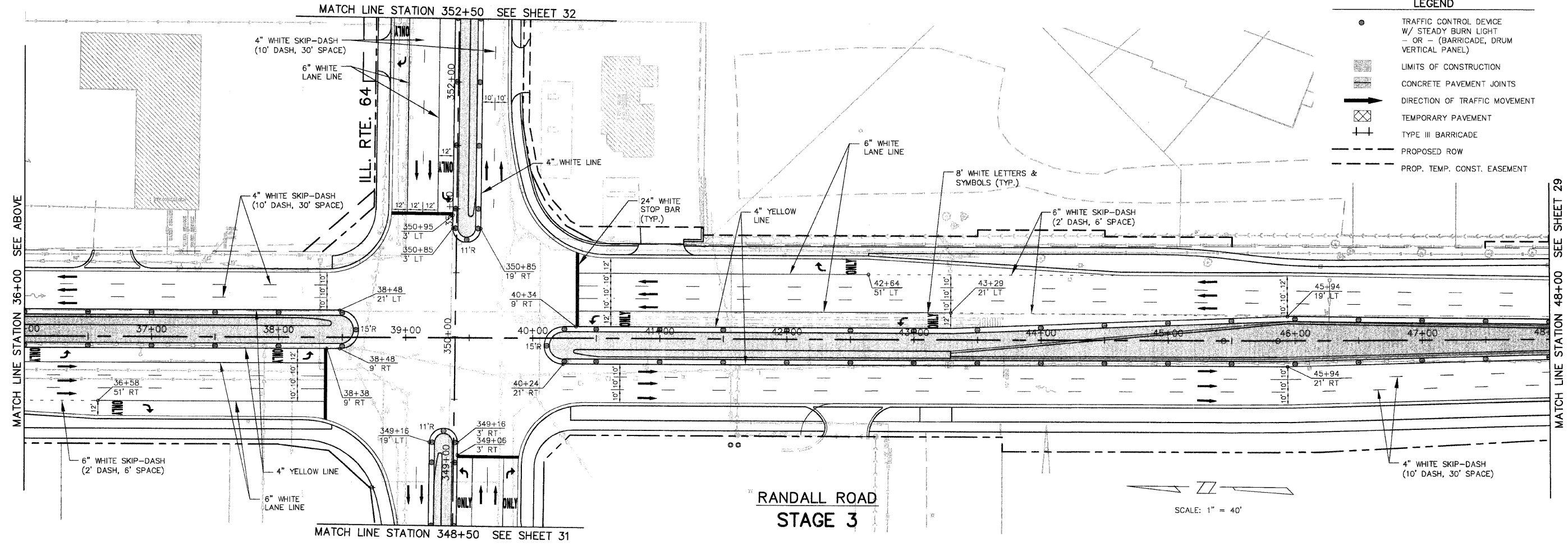
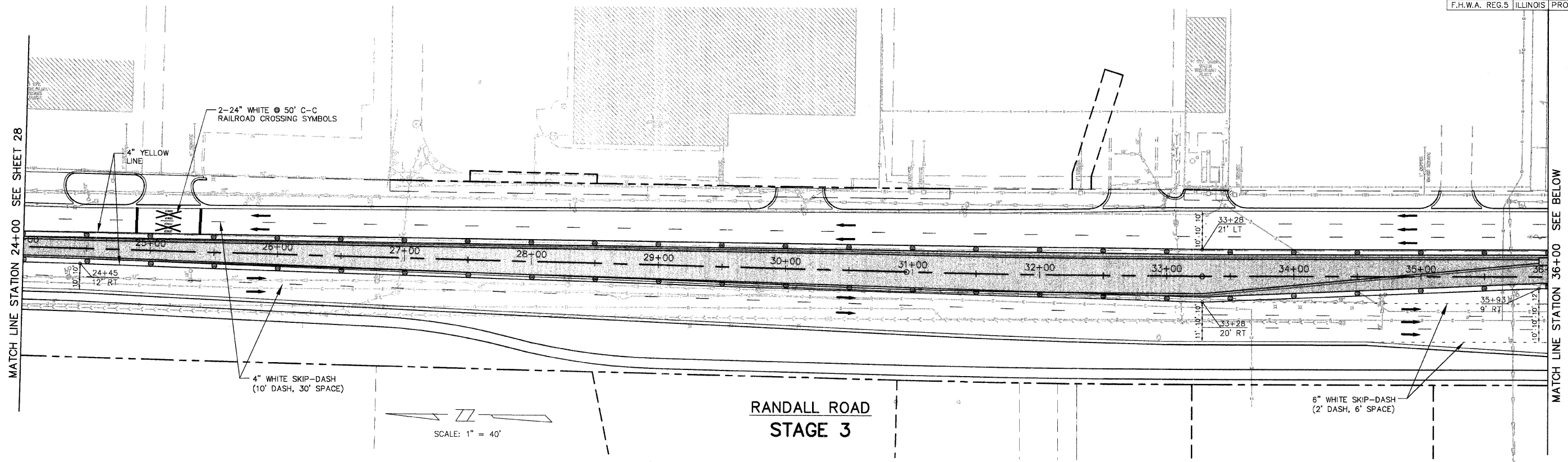
MATCH LINE STATION 12+00 SEE BELOW

MATCH LINE STATION 24+00 SEE SHEET 29

NOTE:
PROPOSED COMBINATION
CONCRETE CURB & GUTTER FROM
STA. 6+20 TO 14+00 RT. SHALL
BE CONSTRUCTED IN STAGE 3.

SCALE: 1" = 40'

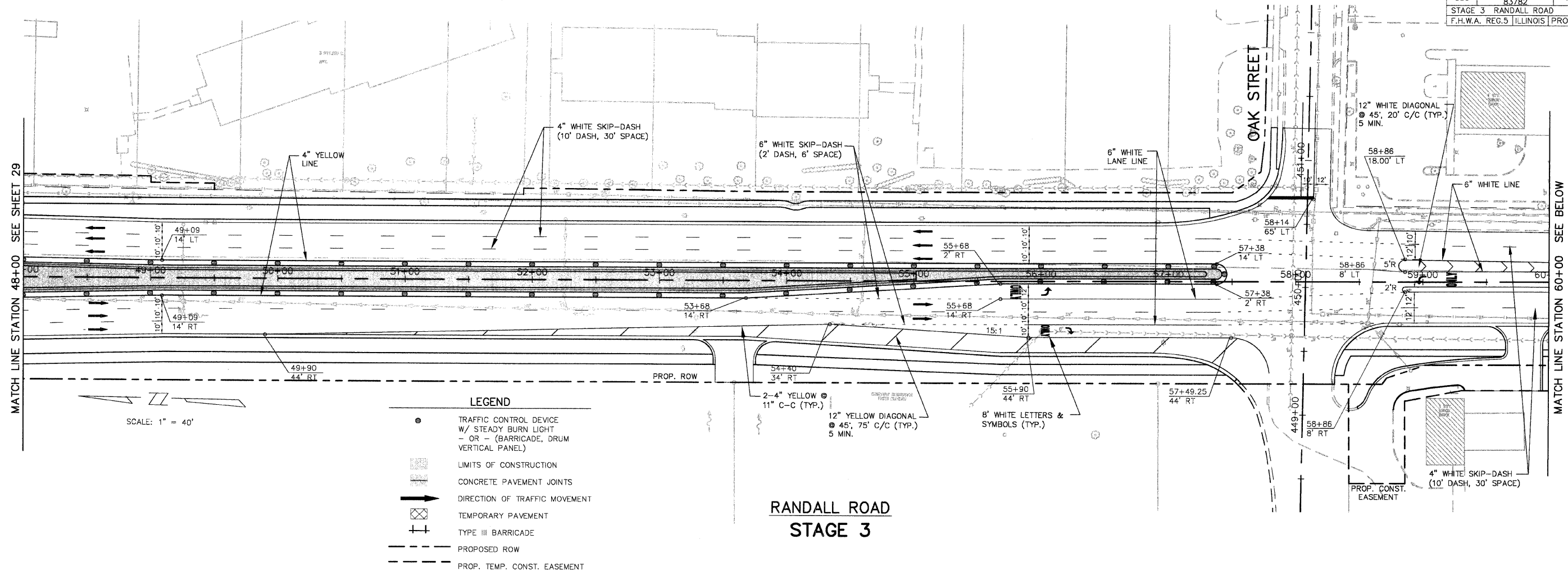
F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
CONTRACT NO. 83782			29
STAGE 3 RANDALL ROAD			
F.H.W.A. REG. 5 ILLINOIS		PROJECT F-0336(008)	



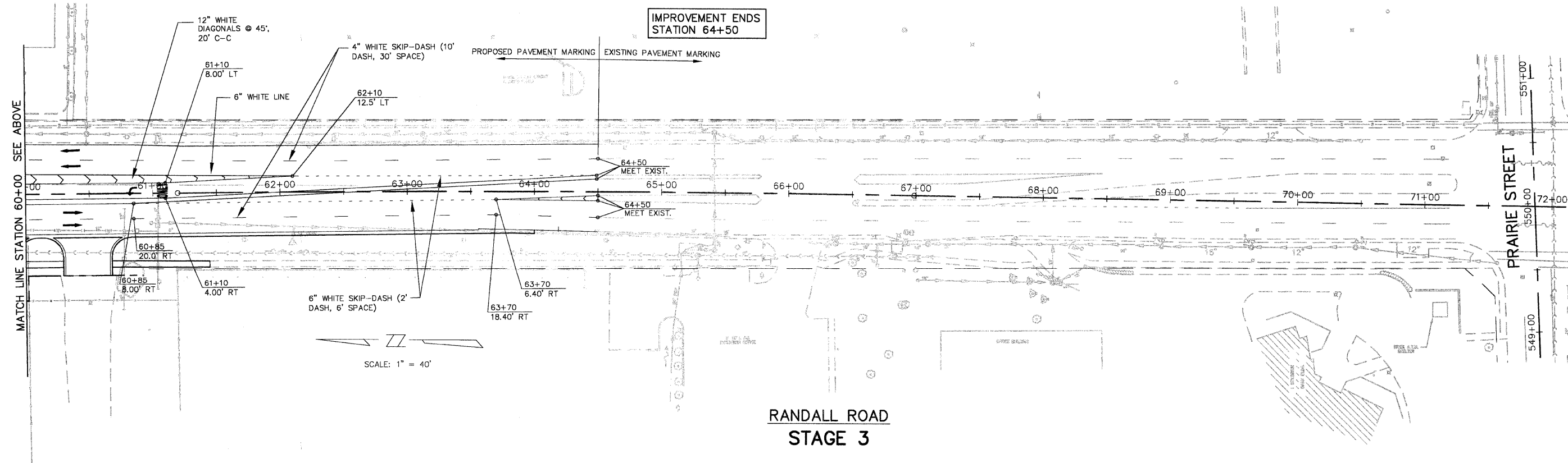
LEGEND

- TRAFFIC CONTROL DEVICE W/ STEADY BURN LIGHT
- - - (BARRICADE, DRUM VERTICAL PANEL)
- ▨ LIMITS OF CONSTRUCTION
- ▧ CONCRETE PAVEMENT JOINTS
- ➔ DIRECTION OF TRAFFIC MOVEMENT
- ▩ TEMPORARY PAVEMENT
- ⊕ TYPE III BARRICADE
- PROPOSED ROW
- - - PROP. TEMP. CONST. EASEMENT

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
CONTRACT NO. 83782			30
STAGE 3 RANDALL ROAD			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



**RANDALL ROAD
STAGE 3**

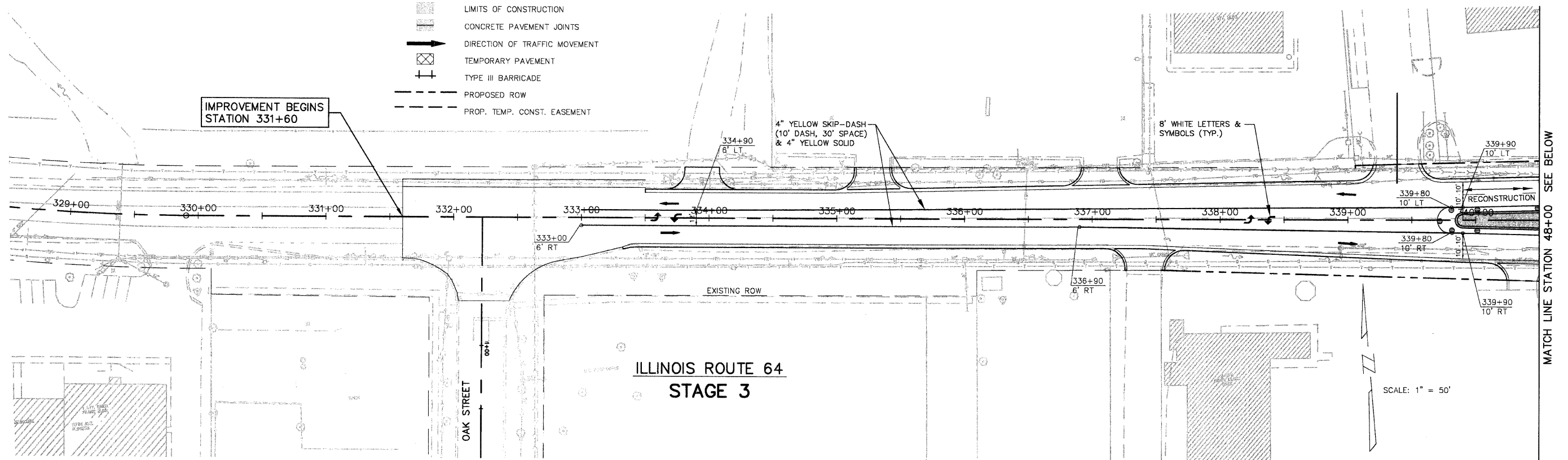


**RANDALL ROAD
STAGE 3**

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
CONTRACT NO. 83782			31
STAGE 3 ILLINOIS ROUTE 64			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			

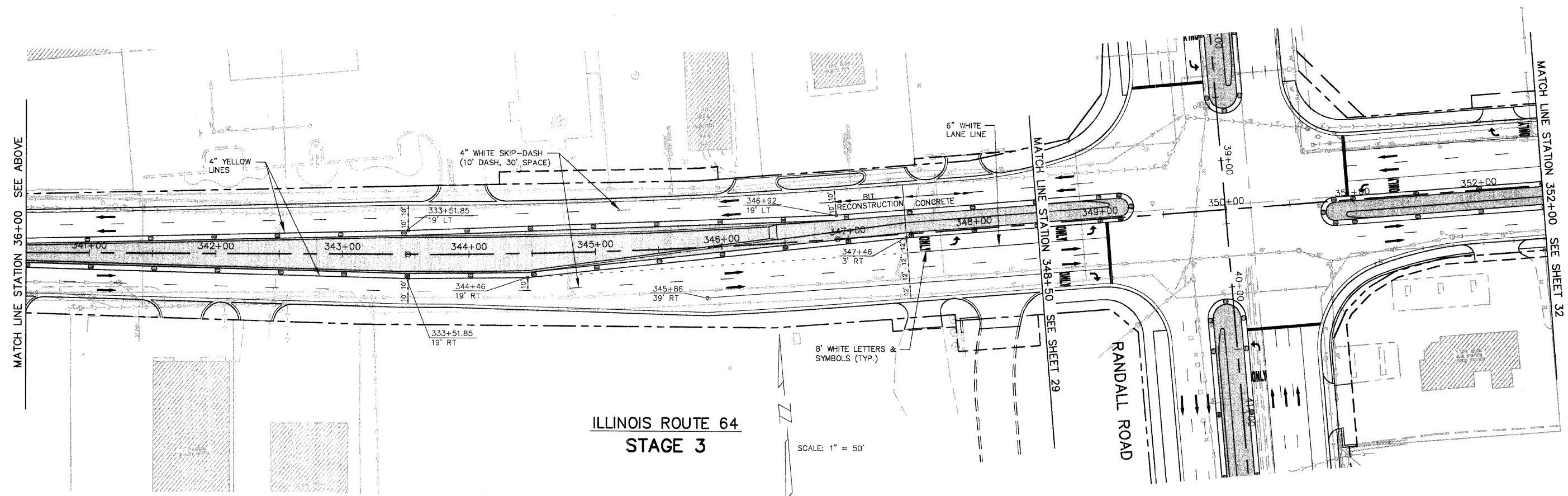
LEGEND

- TRAFFIC CONTROL DEVICE W/ STEADY BURN LIGHT
- OR - (BARRICADE, DRUM VERTICAL PANEL)
- ▨ LIMITS OF CONSTRUCTION
- ▧ CONCRETE PAVEMENT JOINTS
- ➔ DIRECTION OF TRAFFIC MOVEMENT
- ⊗ TEMPORARY PAVEMENT
- ⊥ TYPE III BARRICADE
- - - PROPOSED ROW
- - - PROP. TEMP. CONST. EASEMENT



**ILLINOIS ROUTE 64
 STAGE 3**

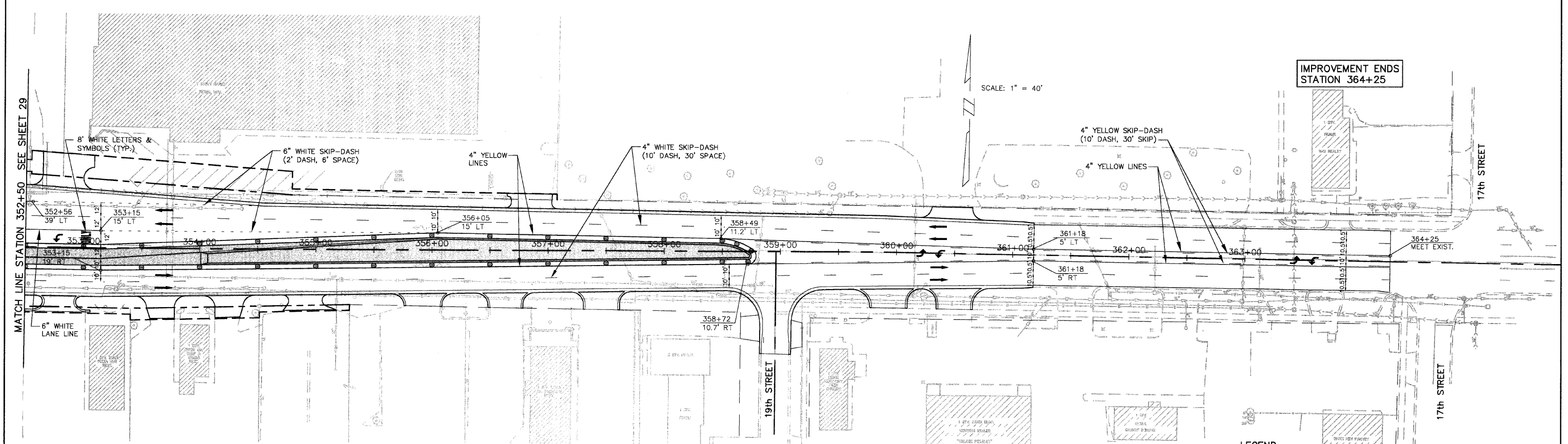
SCALE: 1" = 50'



**ILLINOIS ROUTE 64
 STAGE 3**

SCALE: 1" = 50'

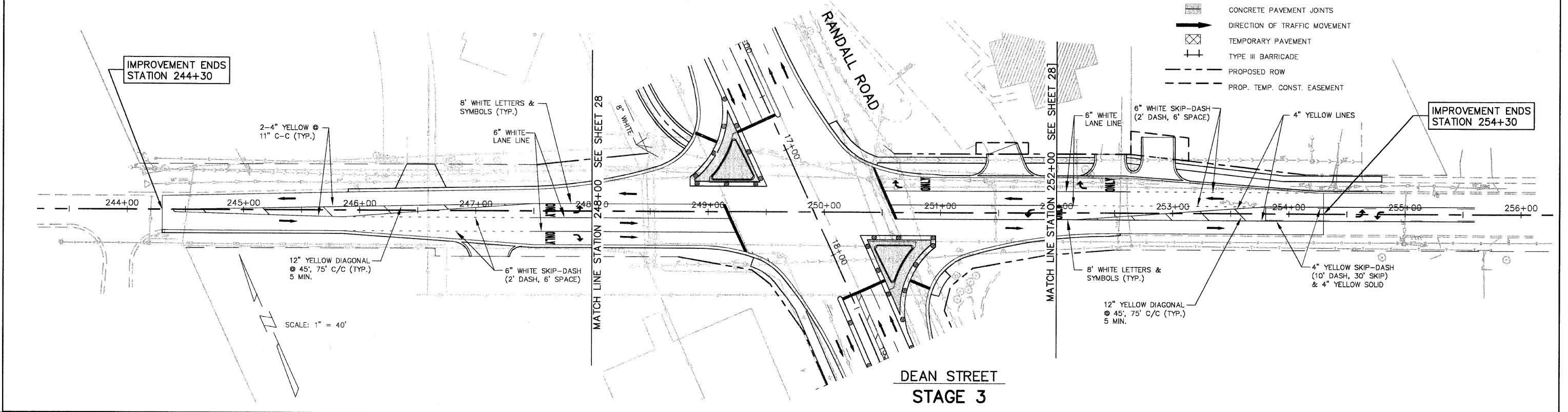
F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
CONTRACT NO. 83782			32
STAGE 3 ILLINOIS ROUTE 64 & DEAN STREET			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



**ILLINOIS ROUTE 64
 STAGE 3**

LEGEND

- TRAFFIC CONTROL DEVICE W/ STEADY BURN LIGHT
- OR - (BARRICADE, DRUM VERTICAL PANEL)
- ▨ LIMITS OF CONSTRUCTION
- ▩ CONCRETE PAVEMENT JOINTS
- ➔ DIRECTION OF TRAFFIC MOVEMENT
- ▧ TEMPORARY PAVEMENT
- ⊥ TYPE III BARRICADE
- - - PROPOSED ROW
- - - PROP. TEMP. CONST. EASEMENT



**DEAN STREET
 STAGE 3**

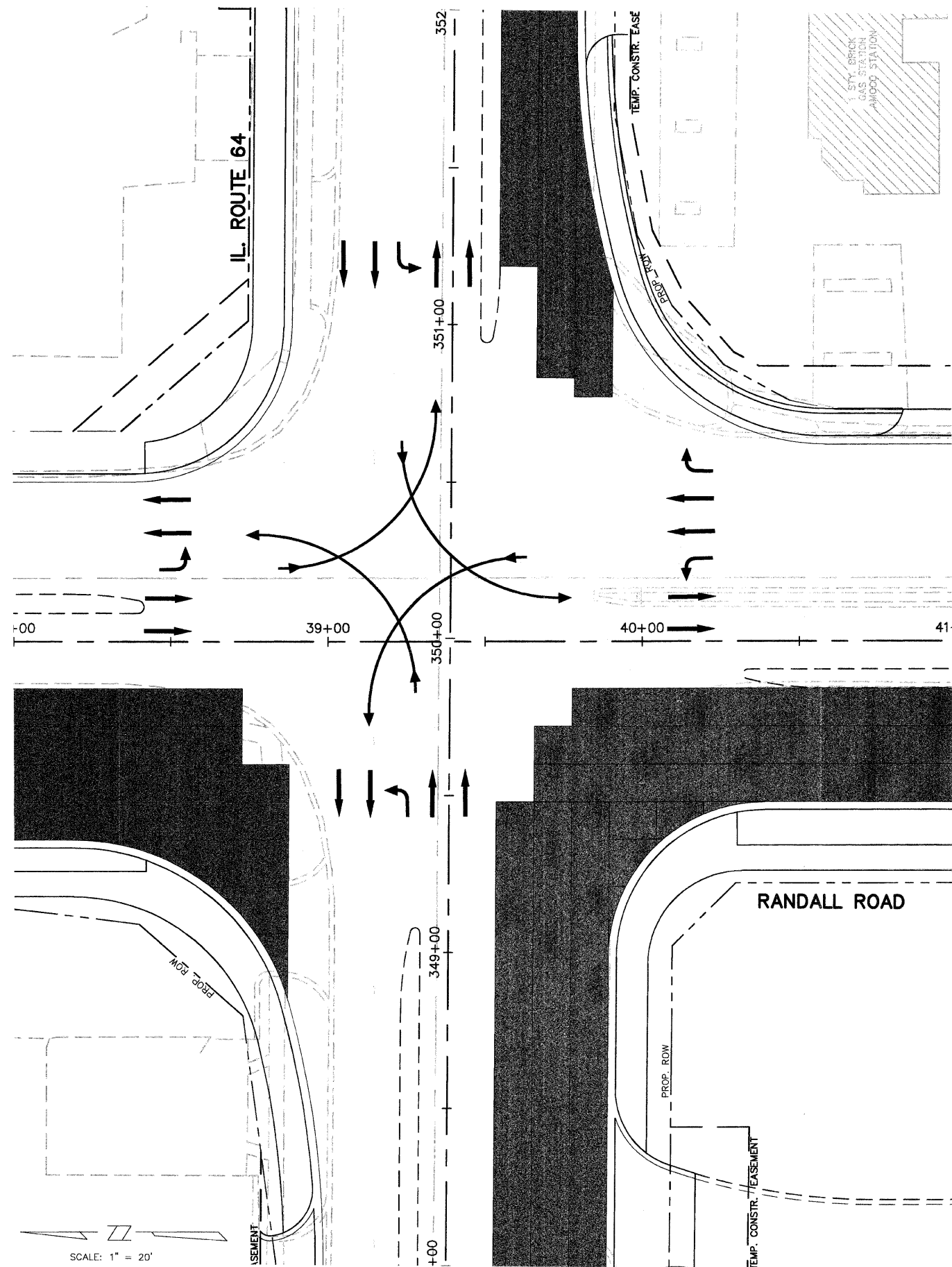
IMPROVEMENT ENDS STATION 254+30

IMPROVEMENT ENDS STATION 244+30

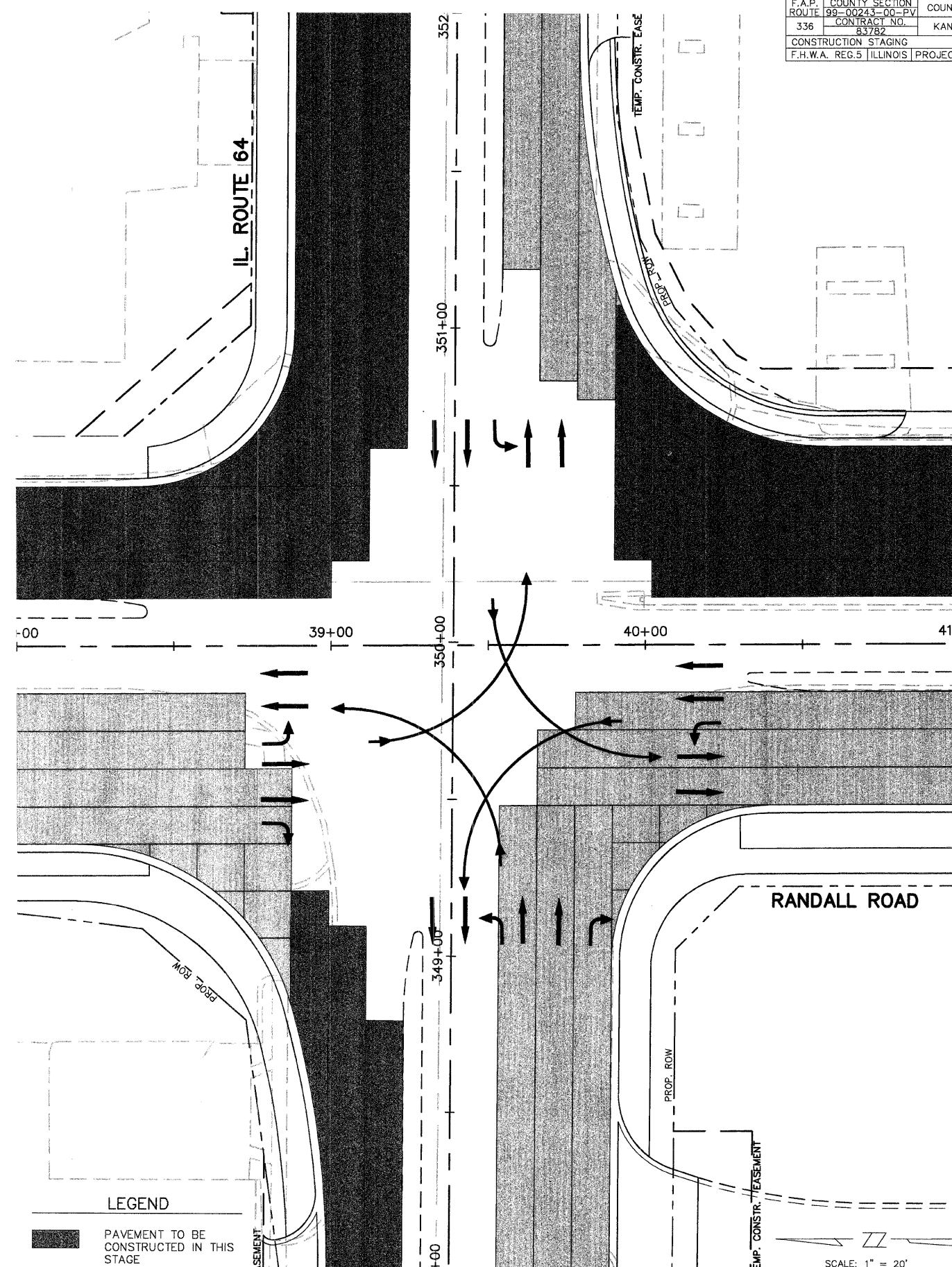
SCALE: 1" = 40'

SCALE: 1" = 40'

F.A.P.	COUNTY	SECTION	COUNTY	TOTAL SHEET
ROUTE 99-00243-00-PV	336	CONTRACT NO. 83782	KANE	268 33
CONSTRUCTION STAGING				
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)				



STAGE 1

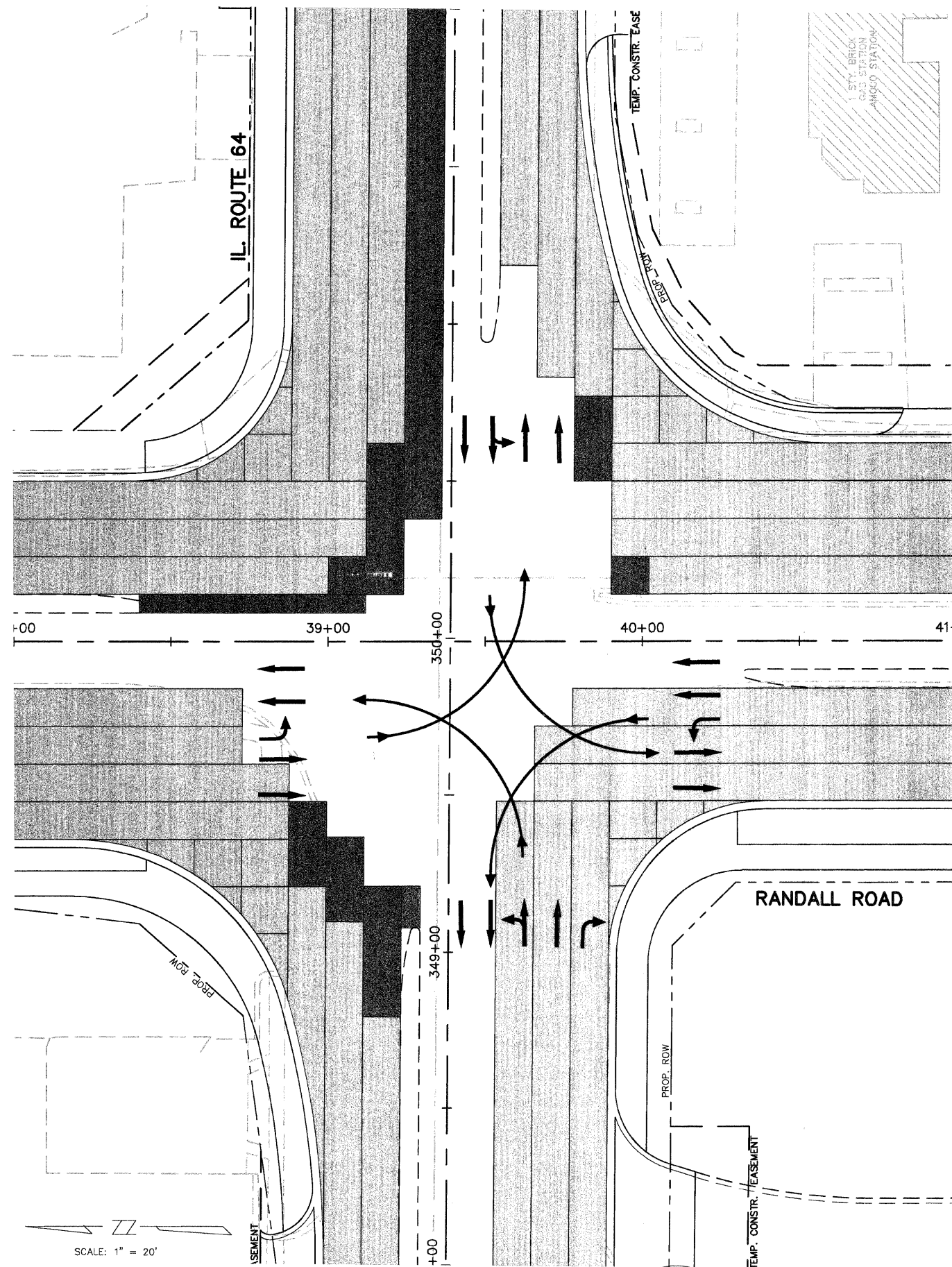


LEGEND

- PAVEMENT TO BE CONSTRUCTED IN THIS STAGE
- PAVEMENT PREVIOUSLY CONSTRUCTED

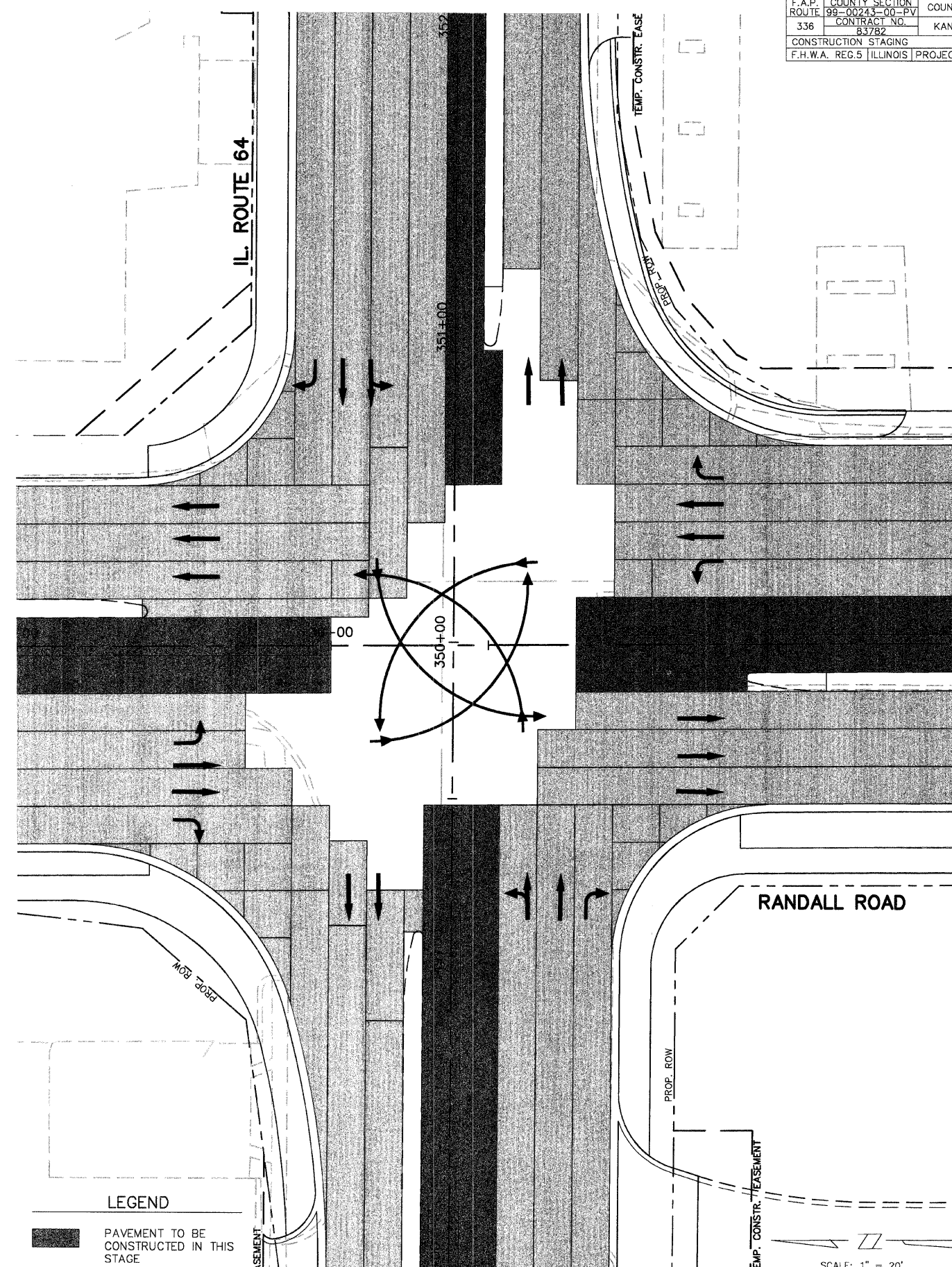
STAGE 2

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	98-00243-00-PV	KANE	268
CONSTRUCTION STAGING		SHTS. NO.	34
F.H.W.A. REG.5 ILLINOIS		PROJECT F-0336(008)	



STAGE 2A

SCALE: 1" = 20'



STAGE 2B

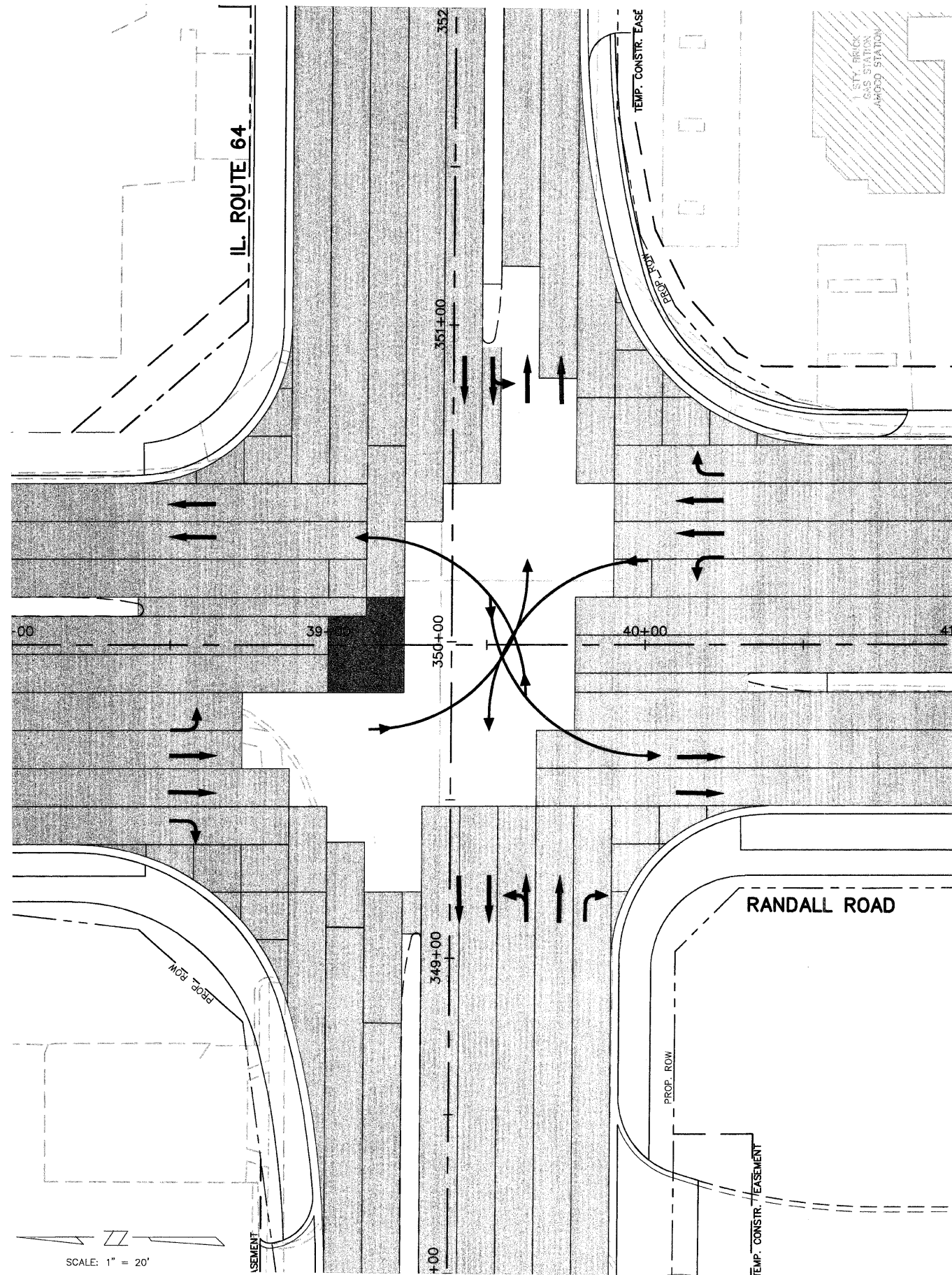
SCALE: 1" = 20'

LEGEND

- PAVEMENT TO BE CONSTRUCTED IN THIS STAGE
- PAVEMENT PREVIOUSLY CONSTRUCTED

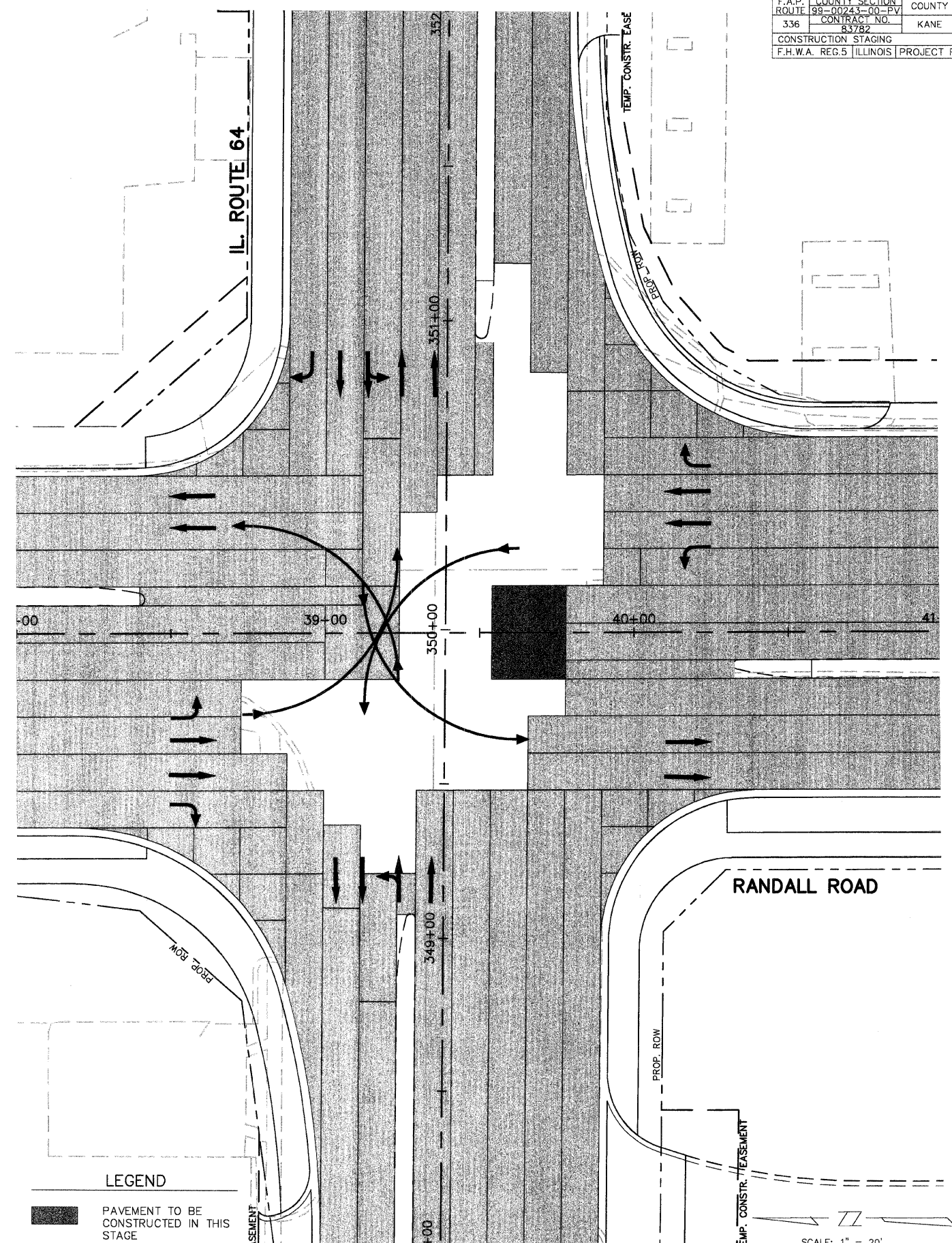
SPLIT PHASE

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
CONTRACT NO.			NO.
83782			35
CONSTRUCTION STAGING			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



STAGE 2B-1

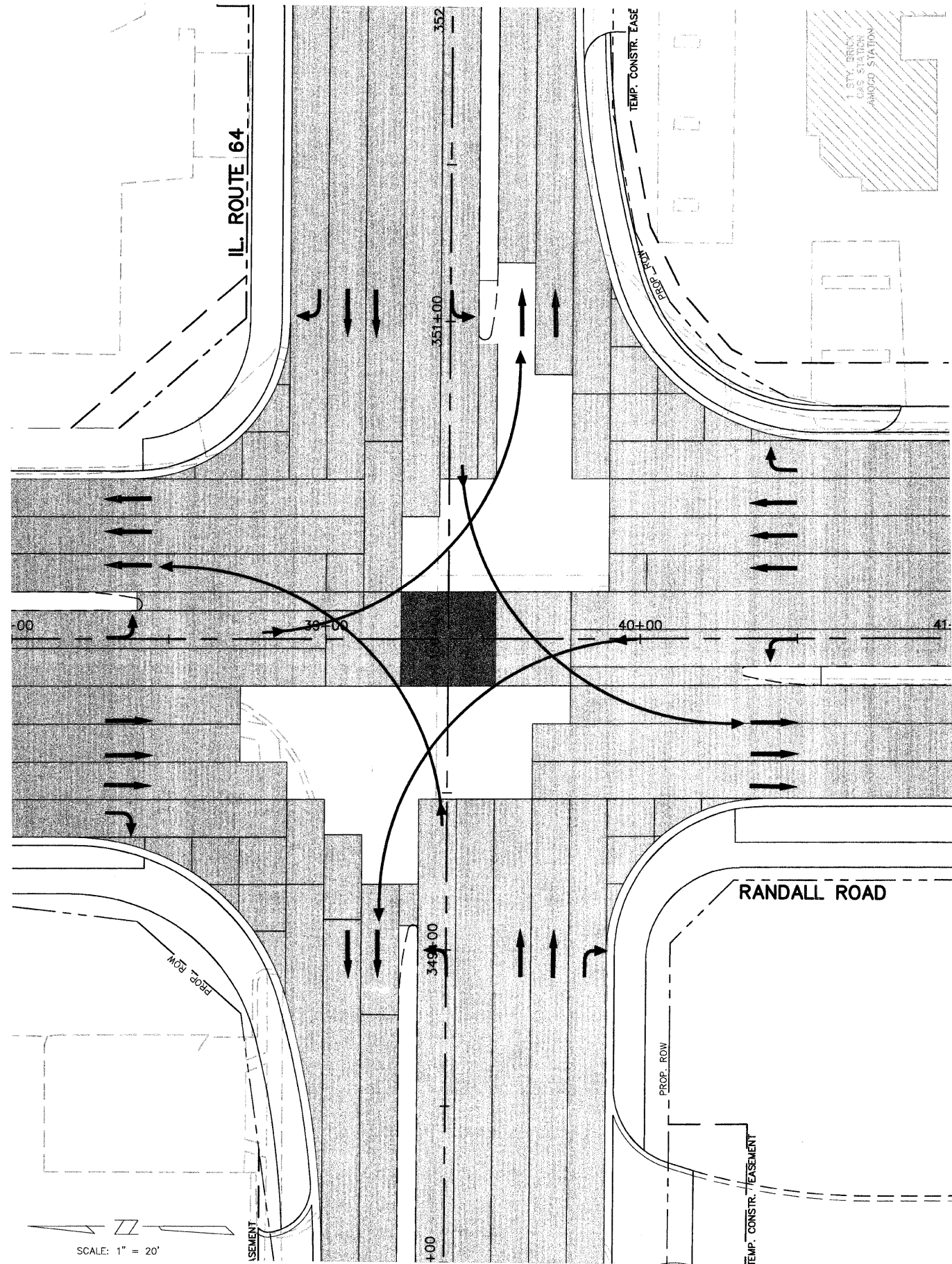
SPLIT PHASE



STAGE 2B-2

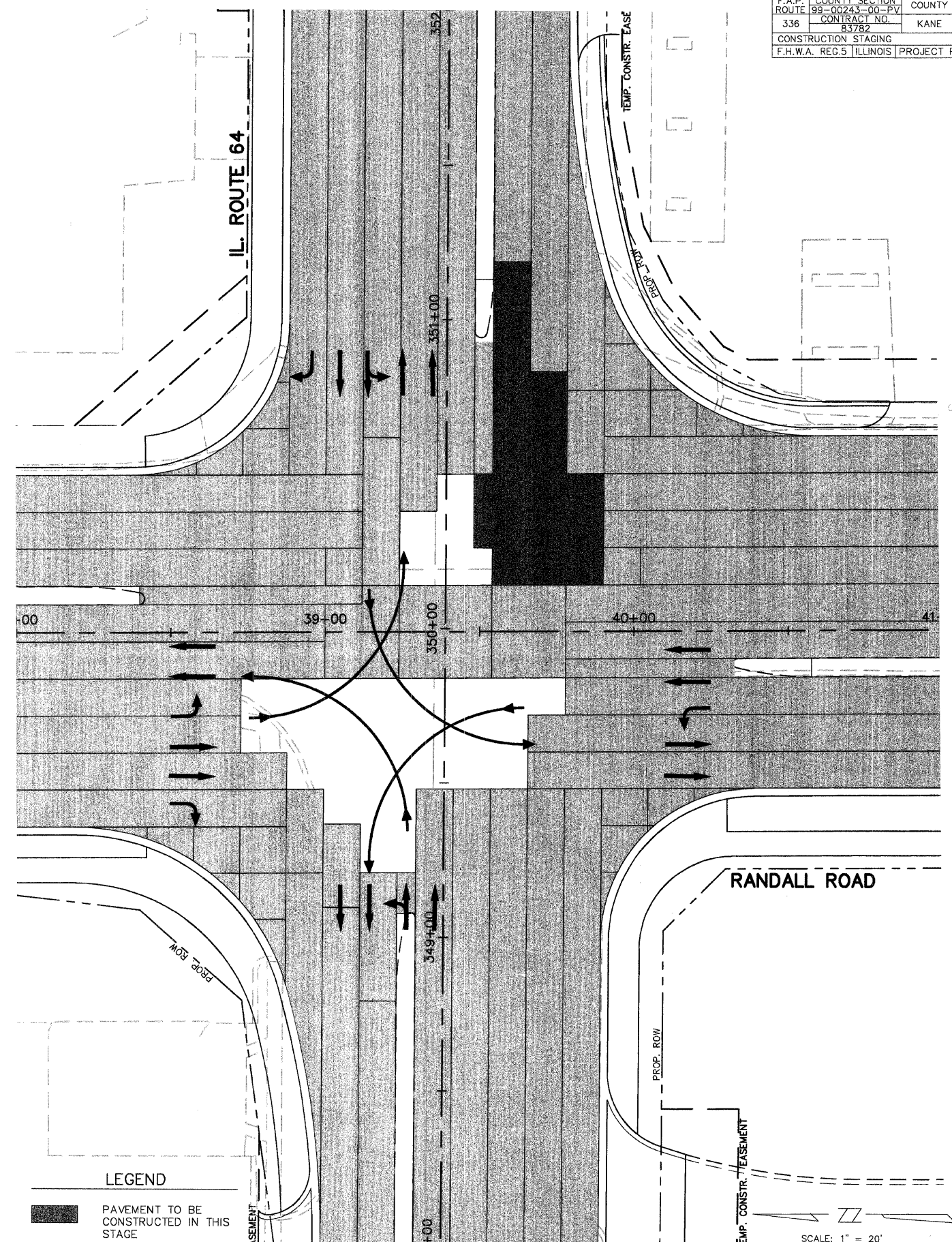
SPLIT PHASE

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEETS
99-00243-00-PV	336	KANE	268
CONTRACT NO.	83782		36
CONSTRUCTION STAGING			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



STAGE 2B-3

SPLIT PHASE



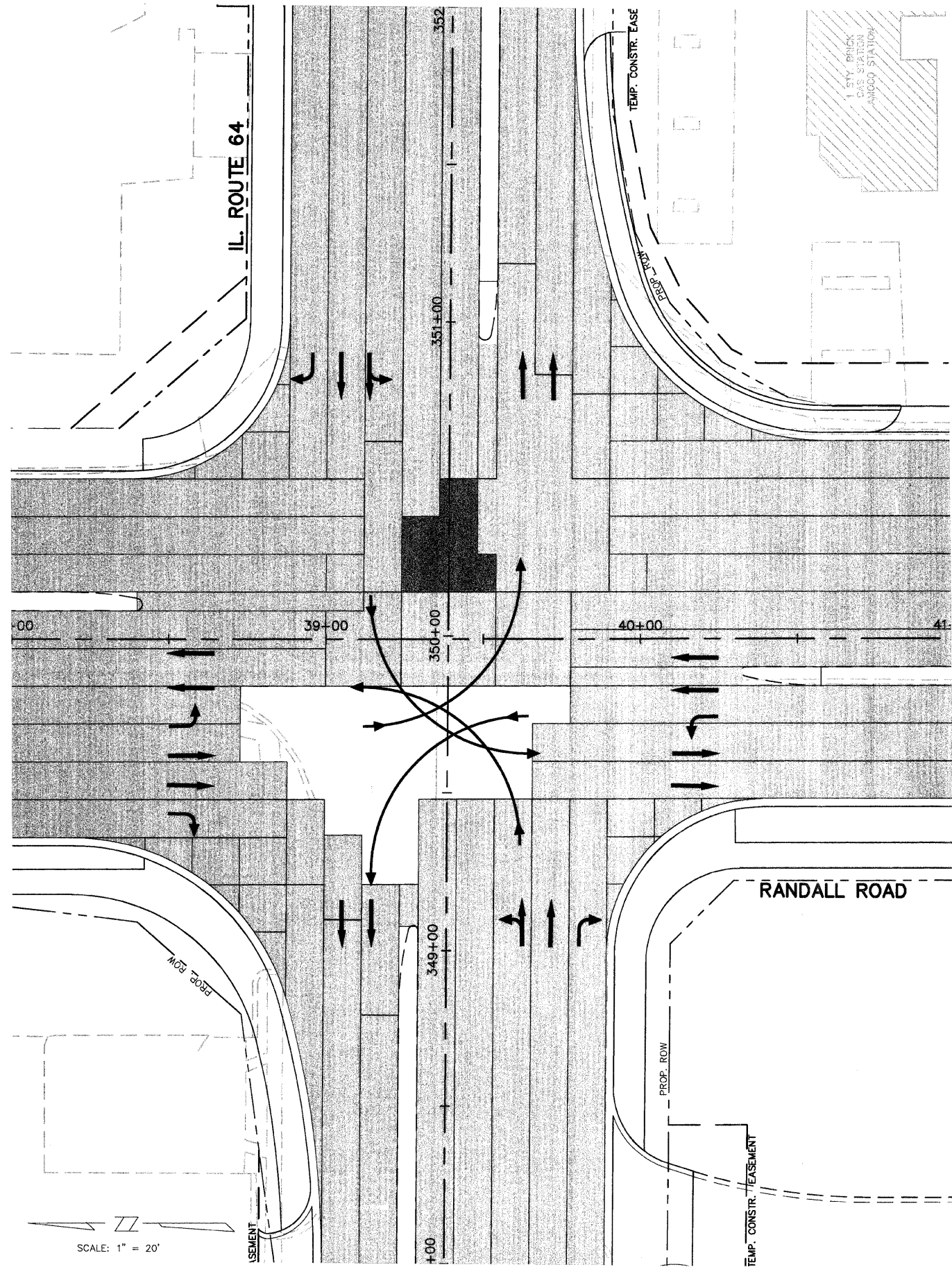
LEGEND

- PAVEMENT TO BE CONSTRUCTED IN THIS STAGE
- PAVEMENT PREVIOUSLY CONSTRUCTED

STAGE 2C

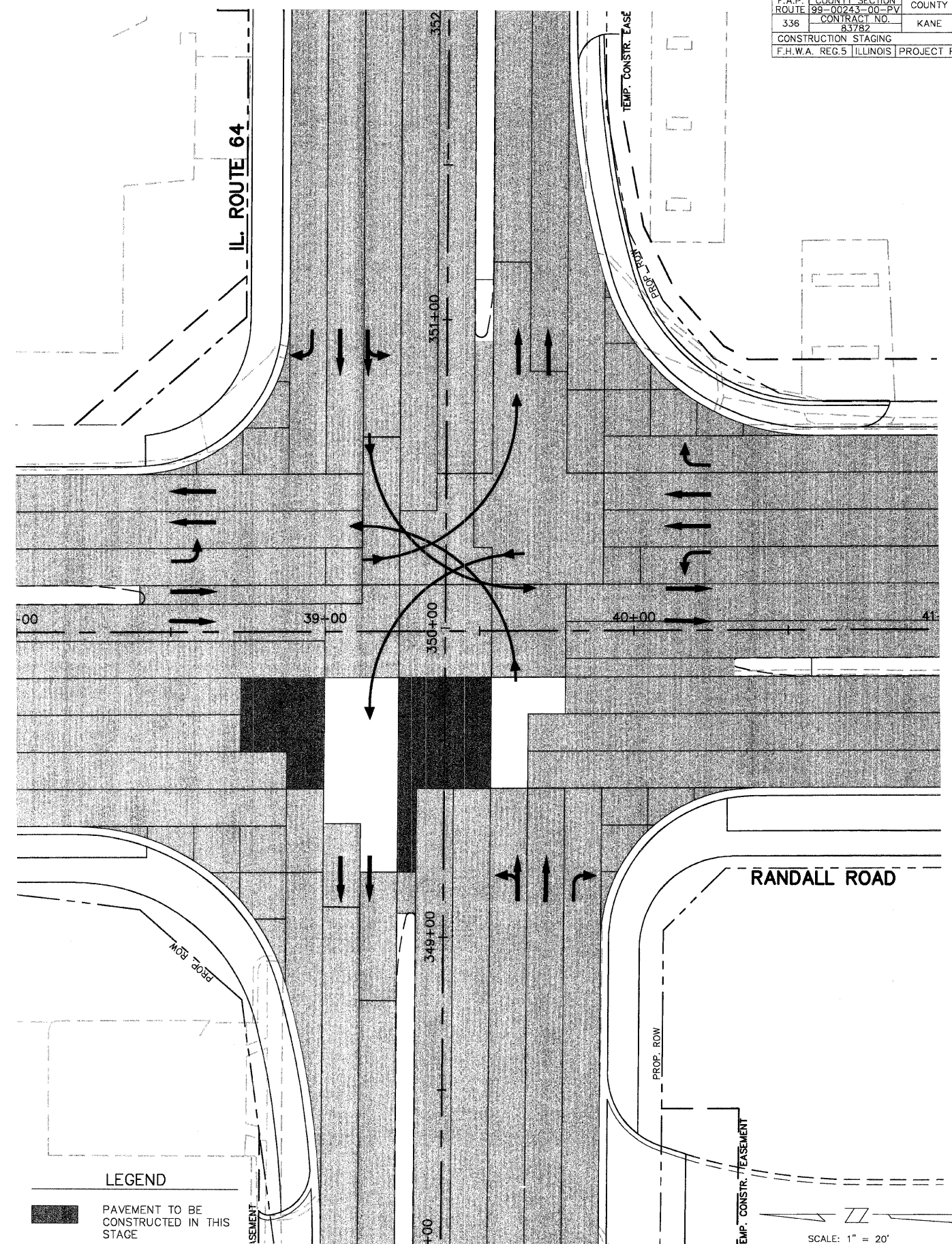
SCALE: 1" = 20'

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
	CONTRACT NO.		37
CONSTRUCTION STAGING			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



STAGE 2C-1

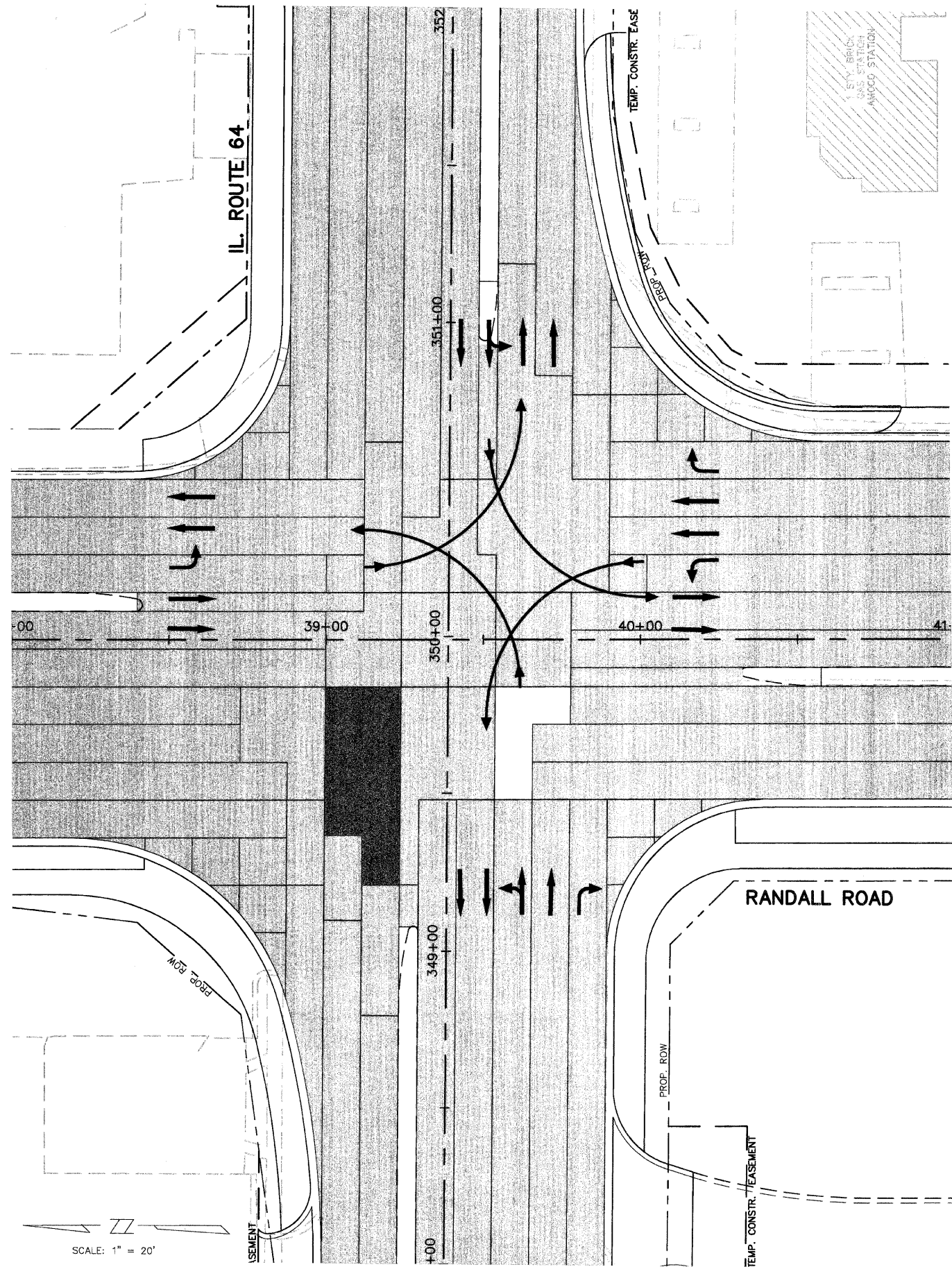
SPLIT PHASE



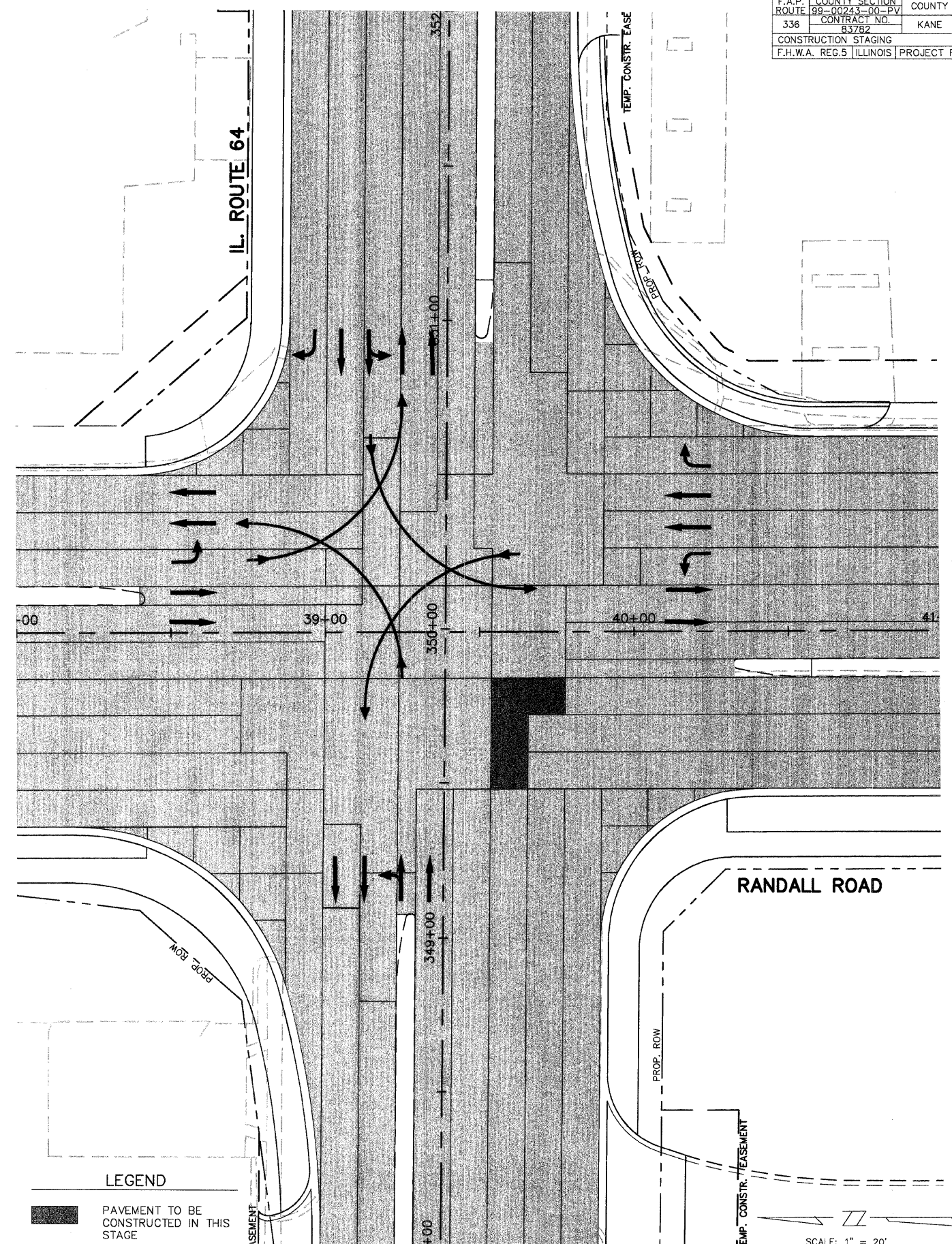
STAGE 2C-2

SPLIT PHASE

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
CONSTRUCTION STAGING			38
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



STAGE 2C-3



STAGE 2C-4

EROSION CONTROL NOTES:

1. THE CONSTRUCTION LIMITS WILL BE IDENTIFIED BY THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION. THE CONSTRUCTION LIMITS MAY BE ADJUSTED BY THE ENGINEER TO PRESERVE TREES AND NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR CHANGED CONSTRUCTION LIMITS.
2. PERIMETER EROSION BARRIER SHALL BE ERECTED AT LOCATIONS SHOWN ON EROSION CONTROL PLAN. ANY RELOCATION OF THE PERIMETER EROSION BARRIER MUST BE APPROVED BY THE ENGINEER.
3. SEE CROSS SECTIONS FOR GRADING INFORMATION.
4. SEE PROPOSED PLAN AND PROFILE FOR STORM SEWER INFORMATION.
5. EROSION CONTROL ITEMS MAY BE UTILIZED IN MULTIPLE STAGES. REMOVAL OF EROSION CONTROL ITEMS SHALL BE APPROVED BY THE ENGINEER.
6. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH "PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL IN ILLINOIS" AND THE "ILLINOIS URBAN MANUAL".
7. THE CONTRACTOR SHALL KEEP ALL ADJACENT STREETS CLEAN AT ALL TIMES.
8. COORDINATE ALL EROSION CONTROL, SITE GRADING, AND SEEDING/SODDING MEASURES WITH THE LANDSCAPING AND PLANTING PLANS.
9. ALL STOCKPILES, WHICH WILL BE IN PLACE FOR TWO WEEKS OR LONGER, SHALL BE HYDROSEDED WITHIN 14 DAYS OF FINAL STOCKPIILING. TOPSOIL STOCKPILES SHALL BE CONSTRUCTED SO AS TO FREELY DRAIN AND SHALL NOT IMPEDE NATURAL DRAINAGE. ALL STOCKPILES SHALL HAVE PERIMETER EROSION BARRIER INSTALLED AROUND THE BASE.
10. THE CONTRACTOR SHALL PREVENT SILT FROM ENTERING OFFSITE DOWNSTREAM STORMWATER CONVEYANCE SYSTEM BY INSTALLING FABRIC DROPS IN ALL STRUCTURES WITH OPEN GRATES, WHICH COLLECT TRIBUTARY WATER FROM DISTURBED AREAS AND DO NOT OUTLET INTO PROJECT SEDIMENT BASINS OR SILT TRAPS.
11. SEEDING AND MULCHING SHALL BE INITIATED WITHIN 7 DAYS AFTER THE FINAL GRADES HAVE BEEN ATTAINED. ALL UNSTABILIZED AREAS NOT DISTURBED FOR 7 DAYS SHALL BE SEED TEMPORARILY. THE TEMPORARY SEED MIXTURE SHALL BE AS DIRECTED BY THE "ILLINOIS URBAN MANUAL". SEE SOIL PROTECTION CHART FOR SEEDING RATES.
12. IF BLOWING DUST IS A PROBLEM, AS DETERMINED BY THE ENGINEER, THEN THE CONTRACTOR SHALL EMPLOY A WATER TRUCK AS OFTEN AS NECESSARY TO KEEP THE SOIL IN A DAMPENED CONDITION TO MINIMIZE AIRBORNE PARTICULATES. INSTRUCTIONS IN THE ILLINOIS URBAN MANUAL STANDARD #825 SHALL BE FOLLOWED.
13. THE CONTRACTOR SHALL INSPECT ALL SOIL EROSION CONTROL MEASURES ON A WEEKLY BASIS OR AFTER A 1/2" RAINFALL AND REPLACE, REPAIR OR CLEAN THEM WITHIN 24 HOURS.
14. ANY SOIL EROSION CONTROL MEASURES IN ADDITION TO THOSE OUTLINED IN THE PLANS, WHICH ARE DEEMED NECESSARY BY THE ENGINEER, SHALL BE IMPLEMENTED IMMEDIATELY BY THE CONTRACTOR.

15. PRIOR TO COMMENCING ANY SITE GRADING, SIGNOFFS MUST BE OBTAINED FROM THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM, NPDES), ILLINOIS DEPARTMENT OF NATURAL RESOURCES (ENDANGERED SPECIES) AND THE ILLINOIS HISTORICAL PRESERVATION.
16. EROSION CONTROL MEASURES NEAR THE DELINEATED JURISDICTIONAL WATERS OF THE U.S. SHALL BE INSTALLED ACCORDING TO PLAN. VARIATIONS TO THE EROSION CONTROL PLANS MAY RESULT IN A PENALTY FROM THE UNITED STATES ARMY CORPS OF ENGINEERS (ACOE) AND THE NEED TO ACQUIRE AN ACOE PERMIT. THE CONTRACTOR MAY PLACE SUPPLEMENTAL EROSION CONTROL MEASURES WITH THE CONCURRENCE OF THE ENGINEER.
17. WORK WITHIN THE DELINEATED JURISDICTIONAL WATER OF THE U.S. SHALL BE MINIMIZED. THIS WORK SHALL NOT BE CONSTRUCTED DURING PERIODS OF "HIGH WATER" OR EXPECTED RAINFALL EVENTS. ALL EFFORTS SHALL BE USED FOR WORK TO BE PERFORMED IN THE "DRY" (WITHOUT FLOWING WATER). TEMPORARY DAMMING AND BY-PASS PUMPING MAY BE REQUIRED TO MEET THIS OBJECTIVE. PLEASE CONTACT THE KANE-DUPAGE SWCD AT 630-584-7961 PRIOR TO WORKING IN THE JURISDICTIONAL WATERS OF THE U.S. ONCE WORK IN THESE AREAS BEGINS PRIORITY SHALL BE GIVEN TO THE COMPLETION AND STABILIZATION OF THESE AREAS. THESE AREAS SHALL ALSO BE STABILIZED AND PROTECTED PRIOR TO ANY RAIN EVENT.

PROJECT SPECIFIC EROSION CONTROL NOTES:

A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED AT THE PROPOSED STORMWATER DETENTION FACILITY AND BUILDING REMOVAL SITES PRIOR TO COMMENCING WORK. THESE ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO THE PUBLIC RIGHT OF WAY. THE ROADWAY IS TO BE CLEANED OF DEBRIS DAILY.

KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT GENERAL NOTES

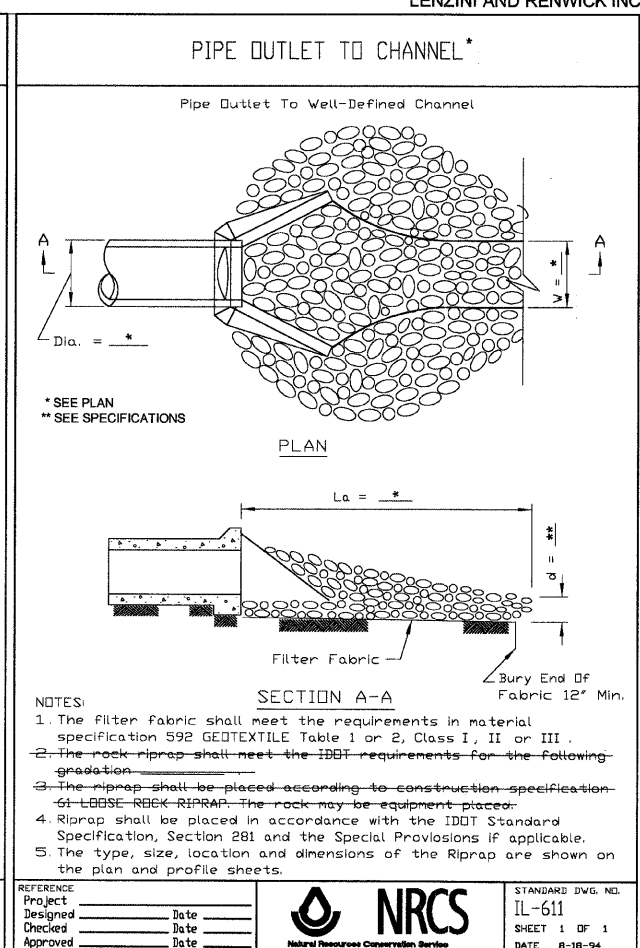
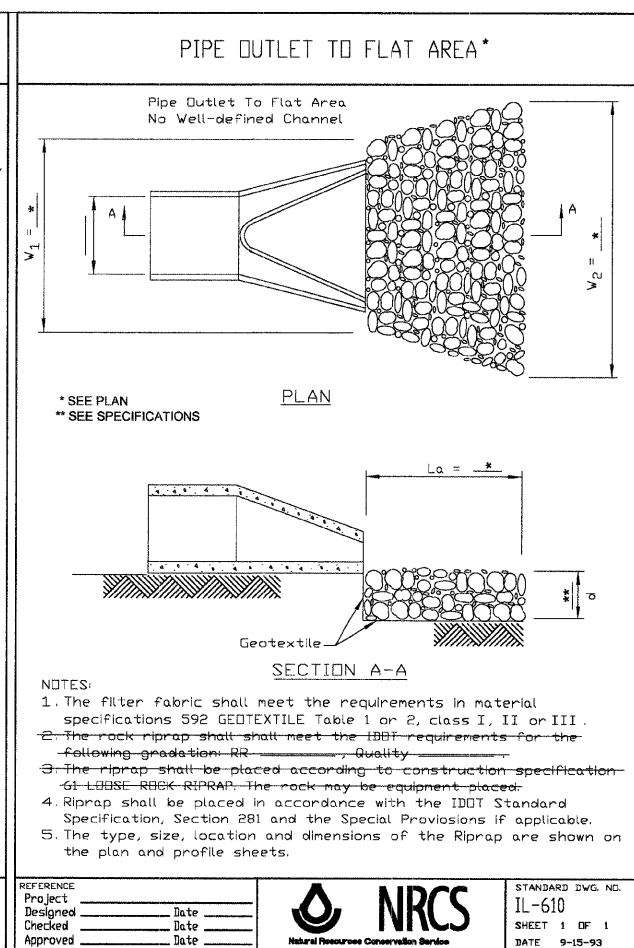
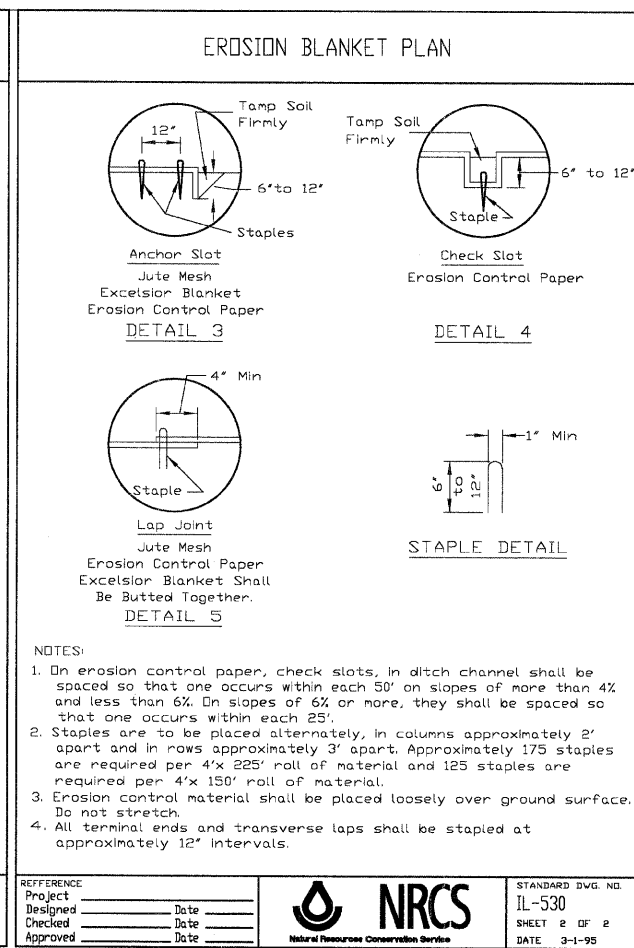
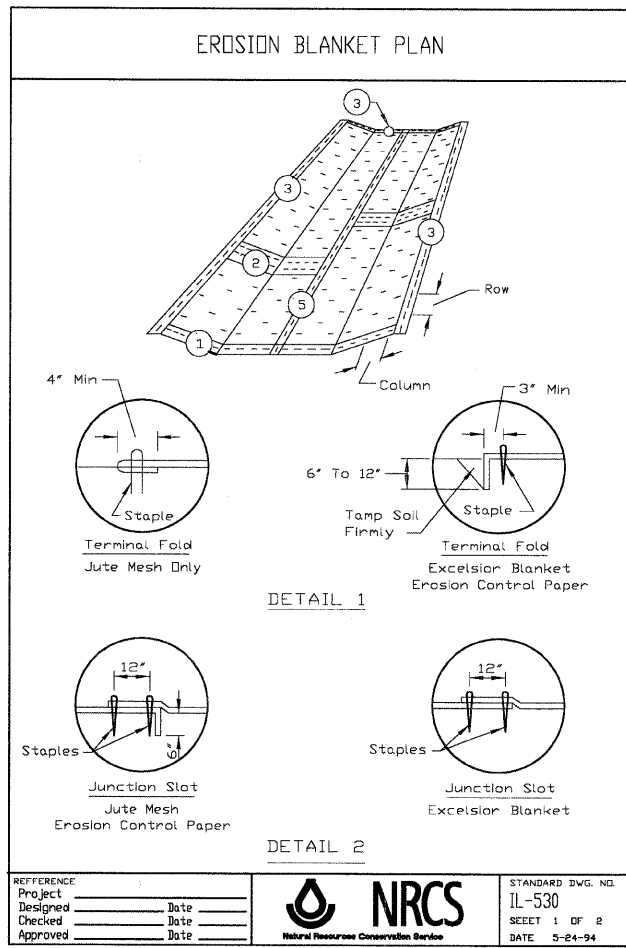
1. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL REVISED FEBRUARY 2002.
2. THE KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT (KDSWCD) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
3. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
4. PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE OWNER FOR REVIEW BY THE KDSWCD.
5. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE KDSWCD.
6. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO FIELD TILES OR STORMWATER STRUCTURES THAT DO NOT DRAIN INTO SEDIMENT BASINS OR SILT TRAPS IS PROHIBITED.

EROSION CONTROL ITEM	USE ILLINOIS URBAN MANUAL STANDARD DRAWING NUMBER				USE IDOT STANDARDS				MISCELLANEOUS STANDARDS OR COMMENTS	TEMPORARY EROSION CONTROL	PERMANENT EROSION CONTROL
	ILLINOIS URBAN MANUAL STANDARD DRAWING NUMBER	ILLINOIS URBAN MANUAL STANDARD DRAWING NUMBER	ILLINOIS URBAN MANUAL STANDARD DRAWING NUMBER	ILLINOIS URBAN MANUAL STANDARD DRAWING NUMBER	IDOT HIGHWAY STANDARD DETAIL	IDOT STANDARD SPECIFICATION SECTION	USE MISC. STANDARDS				
TEMPORARY SEEDING	X	N/A	965		N/A	250, 251				X	-
PERMANENT SEEDING		N/A	880	X	N/A	250				-	X
SODDING		N/A	880, 925	X	N/A	252				-	X
NATIVE PLANTINGS		N/A	880	X	N/A	250, 254				-	X
TREE AND SHRUB PLANTING		685	985	X	N/A	253				-	X
TREE PROTECTION - FENCING	X	690	990		N/A	201				X	-
TREE PROTECTION - TRUNK		N/A	N/A		N/A	201	X		SEE SPECIAL DETAIL	X	-
PERIMETER EROSION BARRIER		620	920	X	280001-02	280				-	X
PERIMETER EROSION BARRIER WITH WIRE SUPPORT	X	620W	920		N/A	N/A				-	X
PERIMETER EROSION BARRIER (SPECIAL)		620	920	X	280001-02	280	X		SEE SPECIAL DETAIL	-	X
ROCK OUTLET PROTECTION	X	610, 611	910		N/A	281, 282				-	X
SEDIMENT TRAP		660	960	X	280001-02	280			15' x 25' (MIN.)	X	X
DUST CONTROL EROSION BLANKET	X	N/A	825		N/A	N/A				X	-
INLET PROTECTION - SILT FILTER FENCE	X	530	830		N/A	251				-	X
INLET PROTECTION - SILT FILTER		N/A	N/A	X	280001-02	280				X	-
TEMPORARY DITCH CHECK		635	935	X	280001-02	280			STATE SPECIFICATION, SECTION 280 (REVISED APRIL 18, 2003)	X	-
STABILIZED CONSTRUCTION ENTRANCE	X	630	930		N/A	N/A				X	-

*NOTE: ITEMS UNDERLINED OR STRUCK OUT ARE MODIFICATIONS TO THE ILLINOIS URBAN MANUAL STANDARDS BY HAMPTON, LENZINI AND RENWICK INC.

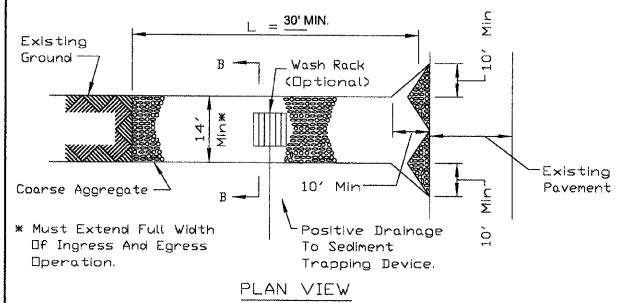
EROSION CONTROL LEGEND

- LIMITS OF STAGE CONSTRUCTION
- EROSION CONTROL BLANKET (PERMANENT)
- EROSION CONTROL SEEDING & MULCH (TEMPORARY)
- SODDING (PERMANENT)
- SEEDING (PERMANENT)
- NATIVE PLANTINGS (PERMANENT)
- RIPRAP (PERMANENT) (SEE PLAN & PROFILE FOR DETAILS)
- PERIMETER EROSION BARRIER (TEMPORARY)
- PERIMETER EROSION BARRIER WITH ORANGE CONSTRUCTION FENCE (TEMPORARY)
- PERIMETER EROSION BARRIER WITH WIRE SUPPORT (TEMPORARY)
- DITCH CHECK (TEMPORARY)
- INLET PROTECTION (TEMPORARY)
- FLOW DIRECTION (SEE CROSS SECTIONS FOR DETAILS)
- PROPOSED STORM SEWER (SEE PLAN & PROFILE FOR DETAILS)

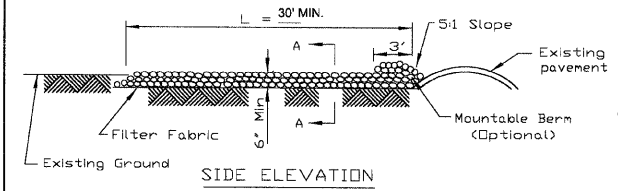


F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
CONTRACT NO.	PROJECT NO.		SHTS. NO.
83782	F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)		40

STABILIZED CONSTRUCTION ENTRANCE PLAN*



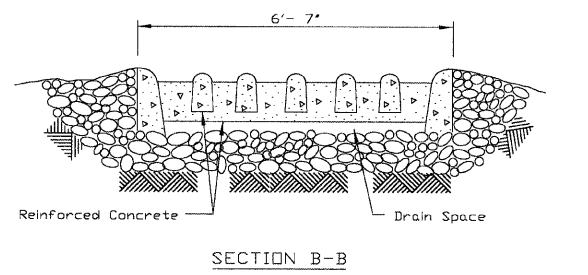
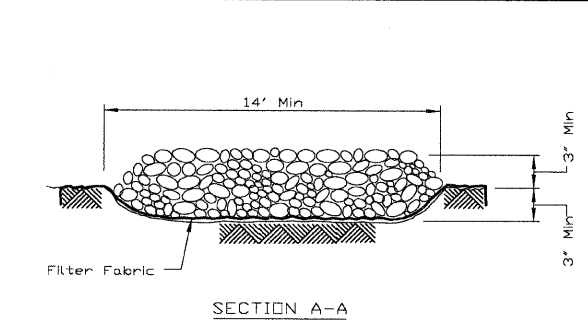
* Must Extend Full Width Of Ingress And Egress Operation.



NOTES:
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table 1 or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, GA-1, GA-2, GA-3 or GA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction (Material Dumped and Spread, Compaction by spreading operation).
3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
4. If wash racks are used they shall be installed according to the manufacturer's specifications.

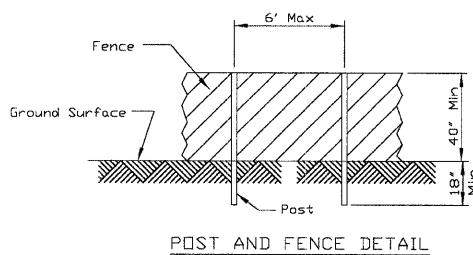
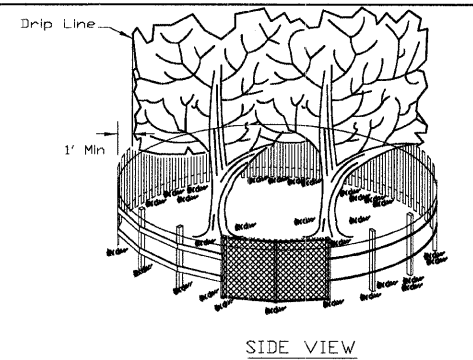
REFERENCE Project	DATE		STANDARD DWG. NO.
Designed	DATE		IL-630
Checked	DATE		SHEET 1 OF 2
Approved	DATE		DATE 8-18-94

STABILIZED CONSTRUCTION ENTRANCE PLAN



REFERENCE Project	DATE		STANDARD DWG. NO.
Designed	DATE		IL-630
Checked	DATE		SHEET 2 OF 2
Approved	DATE		DATE 8-18-94

TREE PROTECTION - FENCING

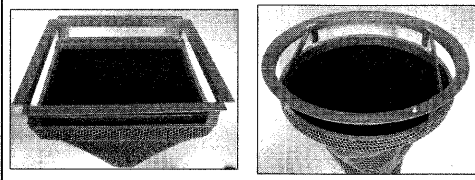


NOTES:
1. The fence shall be located a minimum of 1 foot outside the drip line of the tree to be saved and in no case closer than 5 feet to the trunk of any tree.
2. Fence posts shall be either standard steel posts or wood posts with a minimum cross sectional area of 3.0 sq. in.
3. The fence may be either 40' high snow fence, 40' plastic web fencing or any other material as approved by the engineer/inspector.

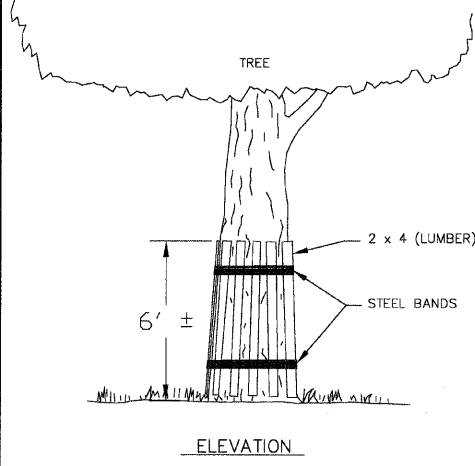
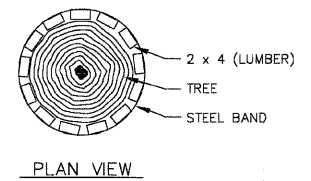
REFERENCE Project	DATE		STANDARD DWG. NO.
Designed	DATE		IL-690
Checked	DATE		SHEET 1 OF 1
Approved	DATE		DATE 4-7-94

*NOTE: ITEMS UNDERLINED OR STRUCK OUT ARE MODIFICATIONS TO THE ILLINOIS URBAN MANUAL STANDARDS BY HAMPTON, LENZINI AND RENWICK

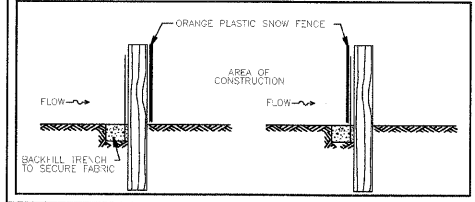
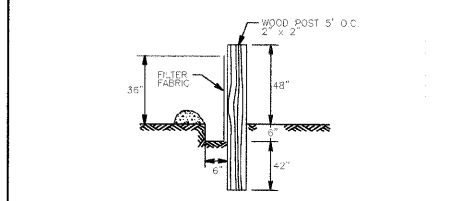
INLET PROTECTION - SILT FILTER



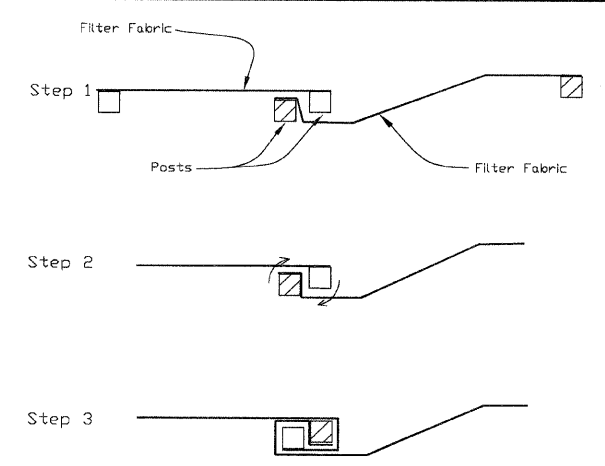
TREE PROTECTION - TRUNK



DETAIL PERIMETER EROSION BARRIER (SPECIAL)



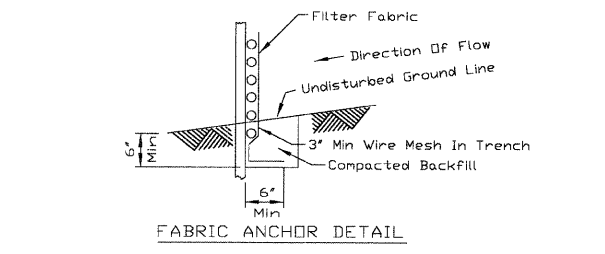
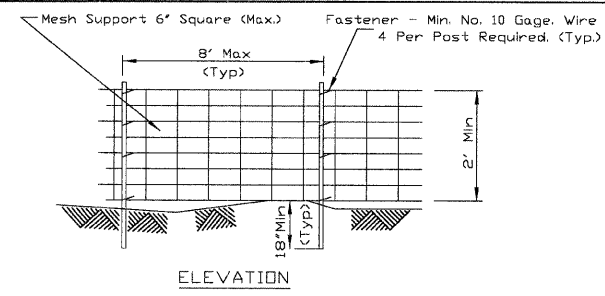
SILT FENCE (PERIMETER EROSION BARRIER)



NOTES:
1. Place the end post of the second fence inside the end post of the first fence.
2. Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
3. Drive both posts a minimum of 18 inches into the ground and bury the flap.

REFERENCE Project	DATE		STANDARD DWG. NO.
Designed	DATE		IL-620(W)
Checked	DATE		SHEET 2 OF 2
Approved	DATE		DATE 1-29-99

SILT FENCE WITH WIRE SUPPORT PLAN (PERIMETER EROSION BARRIER WITH WIRE SUPPORT)

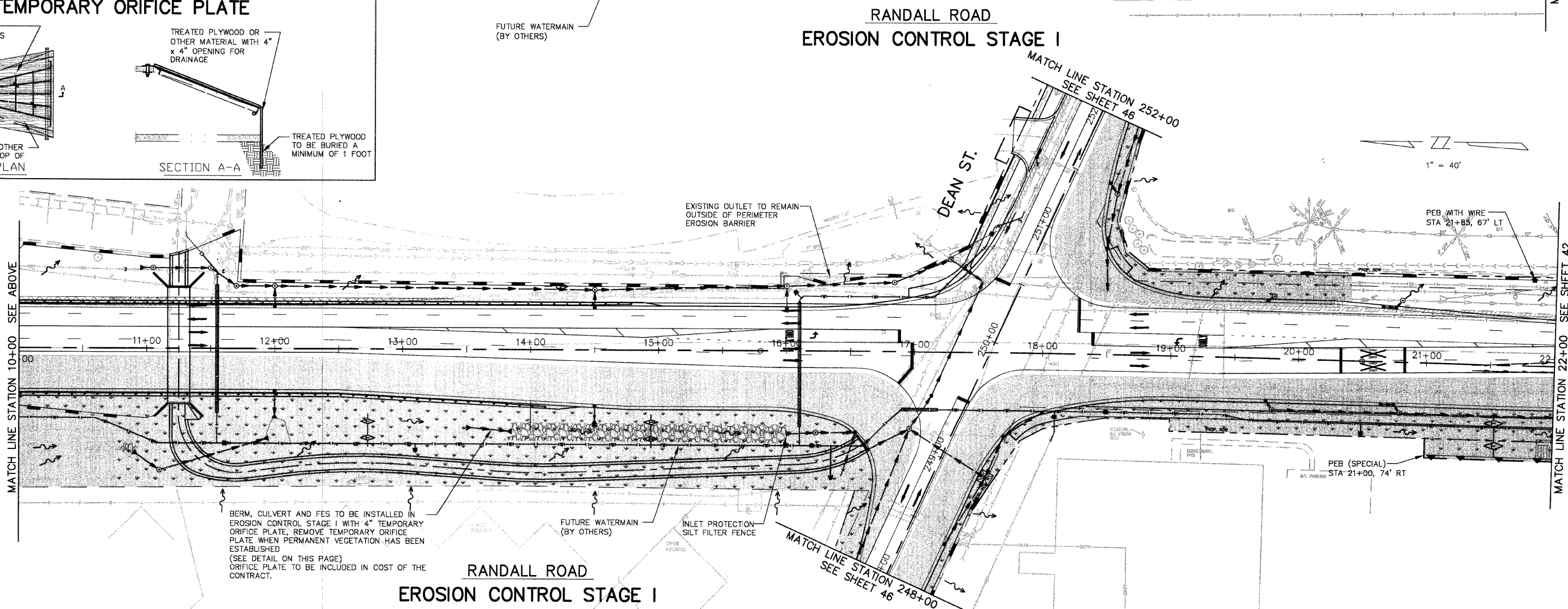
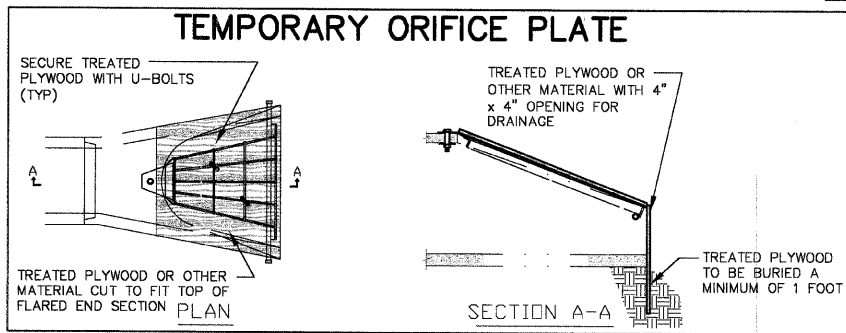
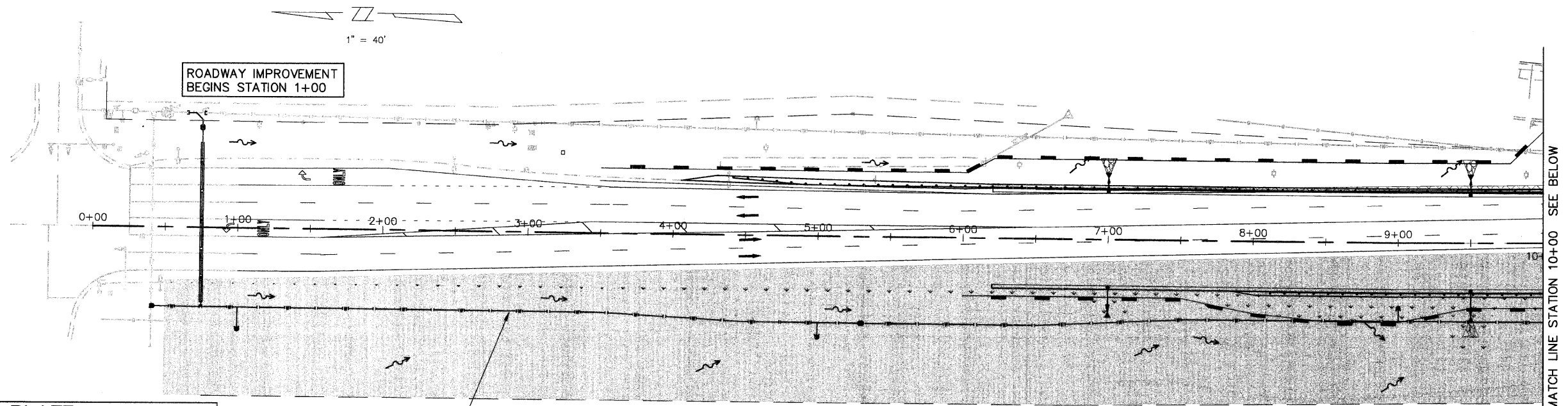


NOTES:
1. Wires of mesh support shall be min. gage no. 12.
2. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
3. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class I with equivalent opening size of at least 30 for nonwoven and 50 for woven.
4. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

REFERENCE Project	DATE		STANDARD DWG. NO.
Designed	DATE		IL-620W
Checked	DATE		SHEET 1 OF 2
Approved	DATE		DATE 3-3-95

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
	CONTRACT NO.		NO.
	83782		41
EROSION CONTROL STAGE 1 RANDALL ROAD			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			

EROSION CONTROL LEGEND	
	LIMITS OF STAGE CONSTRUCTION
	EROSION CONTROL BLANKET (PERMANENT)
	EROSION CONTROL SEEDING & MULCH (TEMPORARY)
	SODDING (PERMANENT)
	SEEDING (PERMANENT)
	NATIVE PLANTINGS (PERMANENT)
	RIPRAP (PERMANENT) (SEE PLAN & PROFILE FOR DETAILS)
	PERIMETER EROSION BARRIER (TEMPORARY)
	PERIMETER EROSION BARRIER WITH ORANGE CONSTRUCTION FENCE (TEMPORARY)
	PERIMETER EROSION BARRIER WITH WIRE SUPPORT (TEMPORARY)
	DITCH CHECK (TEMPORARY)
	INLET PROTECTION (TEMPORARY)
	FLOW DIRECTION (SEE CROSS SECTIONS FOR DETAILS)
	PROPOSED STORM SEWER (SEE PLAN & PROFILE FOR DETAILS)



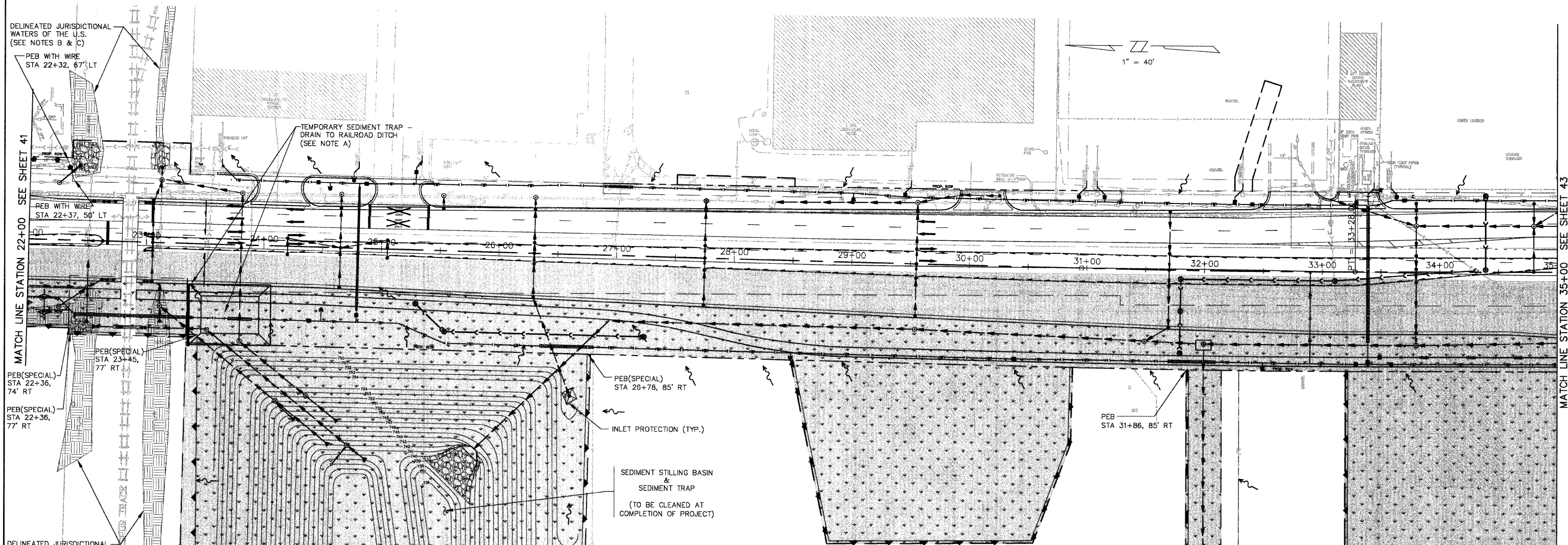
BERM, CULVERT AND FES TO BE INSTALLED IN EROSION CONTROL STAGE I WITH 4" TEMPORARY ORIFICE PLATE, REMOVE TEMPORARY ORIFICE PLATE WHEN PERMANENT VEGETATION HAS BEEN ESTABLISHED (SEE DETAIL ON THIS PAGE) ORIFICE PLATE TO BE INCLUDED IN COST OF THE CONTRACT.

**RANDALL ROAD
 EROSION CONTROL STAGE I**

MATCH LINE STATION 10+00 SEE BELOW

MATCH LINE STATION 22+00 SEE SHEET 42

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-FV	KANE	268 42
CONTRACT NO. 83782		EROSION CONTROL STAGE 1 RANDALL ROAD	
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



RANDALL ROAD EROSION CONTROL STAGE I

NOTES:

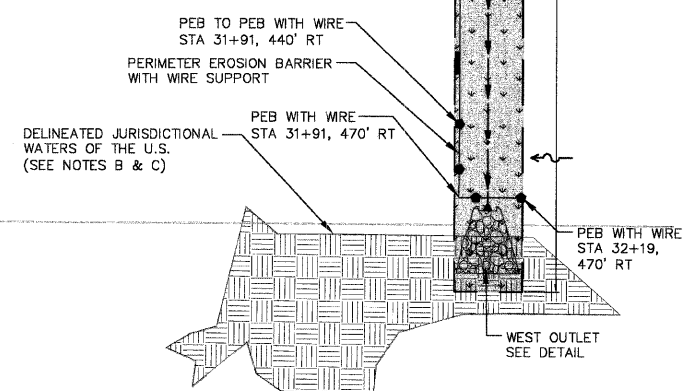
A. TEMPORARY SEDIMENT TRAP TO REMAIN UNTIL DISTURBED TRIBUTARY AREA HAS ESTABLISHED TEMPORARY OR PERMANENT VEGETATION. SIDEWALK PROPOSED IN LOCATION OF TEMPORARY SEDIMENT TRAP MUST BE CONSTRUCTED AFTER VEGETATION HAS BEEN ESTABLISHED.

B. EROSION CONTROL MEASURES NEAR THE DELINEATED JURISDICTIONAL WATERS OF THE U.S. SHALL BE INSTALLED ACCORDING TO PLAN. VARIATIONS TO THE EROSION CONTROL PLANS MAY RESULT IN A PENALTY FROM THE UNITED STATES ARMY CORPS OF ENGINEERS (ACOE) AND THE NEED TO ACQUIRE AN ACOE PERMIT. THE CONTRACTOR MAY PLACE SUPPLEMENTAL EROSION CONTROL MEASURES WITH THE CONCURRENCE OF THE ENGINEER.

C. WORK WITHIN THE DELINEATED JURISDICTIONAL WATER OF THE U.S. SHALL BE MINIMIZED. THIS WORK SHALL NOT BE CONSTRUCTED DURING PERIODS OF "HIGH WATER" OR EXPECTED RAINFALL EVENTS. ALL EFFORTS SHALL BE USED FOR WORK TO BE PERFORMED IN THE "DRY" (WITHOUT FLOWING WATER). TEMPORARY DAMMING AND BY-PASS PUMPING MAY BE REQUIRED TO MEET THIS OBJECTIVE. PLEASE CONTACT THE KANE-DUPAGE SWCD AT 630-584-7961 PRIOR TO WORKING IN THE JURISDICTIONAL WATERS OF THE U.S. ONCE WORK IN THESE AREAS BEGINS PRIORITY SHALL BE GIVEN TO THE COMPLETION AND STABILIZATION OF THESE AREAS. THESE AREAS SHALL ALSO BE STABILIZED AND PROTECTED PRIOR TO ANY RAIN EVENT.















EROSION CONTROL LEGEND	
	LIMITS OF STAGE CONSTRUCTION
	EROSION CONTROL BLANKET (PERMANENT)
	EROSION CONTROL SEEDING & MULCH (TEMPORARY)
	SODDING (PERMANENT)
	SEEDING (PERMANENT)
	NATIVE PLANTINGS (PERMANENT)
	RIPRAP (PERMANENT) (SEE PLAN & PROFILE FOR DETAILS)
	PERIMETER EROSION BARRIER (TEMPORARY)
	PERIMETER EROSION BARRIER WITH ORANGE CONSTRUCTION FENCE (TEMPORARY)
	PERIMETER EROSION BARRIER WITH WIRE SUPPORT (TEMPORARY)
	DITCH CHECK (TEMPORARY)
	INLET PROTECTION (TEMPORARY)
	FLOW DIRECTION (SEE CROSS SECTIONS FOR DETAILS)
	PROPOSED STORM SEWER (SEE PLAN & PROFILE FOR DETAILS)

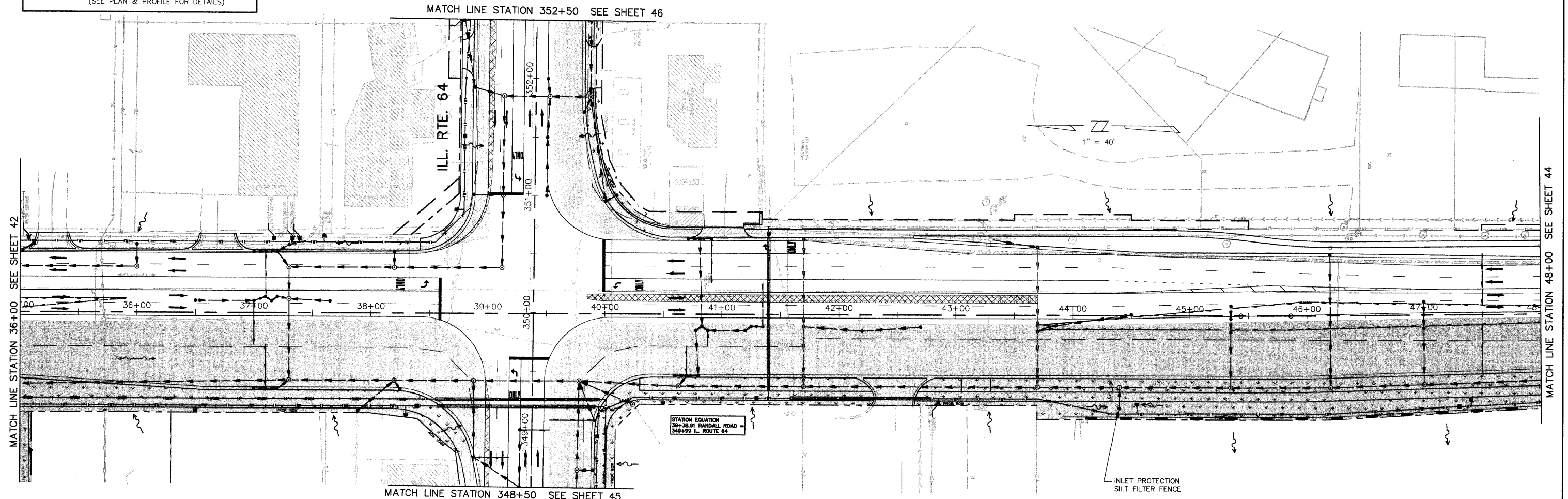
WORK IN CORNER OF THE PARCEL SHALL BE AVOIDED. POSSIBLE JURISDICTIONAL WATERS OF THE U.S. (SEE NOTES B & C)



F.A.P. ROUTE	COUNTY	SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	83782	KANE	268
EROSION CONTROL STAGE 1			RANDALL ROAD	43
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)				

EROSION CONTROL LEGEND

-  LIMITS OF STAGE CONSTRUCTION
-  EROSION CONTROL BLANKET (PERMANENT)
-  EROSION CONTROL SEEDING & MULCH (TEMPORARY)
-  SODDING (PERMANENT)
-  SEEDING (PERMANENT)
-  NATIVE PLANTINGS (PERMANENT)
-  RIPRAP (PERMANENT)
(SEE PLAN & PROFILE FOR DETAILS)
-  PERIMETER EROSION BARRIER (TEMPORARY)
-  PERIMETER EROSION BARRIER WITH ORANGE CONSTRUCTION FENCE (TEMPORARY)
-  PERIMETER EROSION BARRIER WITH WIRE SUPPORT (TEMPORARY)
-  DITCH CHECK (TEMPORARY)
-  INLET PROTECTION (TEMPORARY)
-  FLOW DIRECTION
(SEE CROSS SECTIONS FOR DETAILS)
-  PROPOSED STORM SEWER
(SEE PLAN & PROFILE FOR DETAILS)



**RANDALL ROAD
 EROSION CONTROL STAGE I**

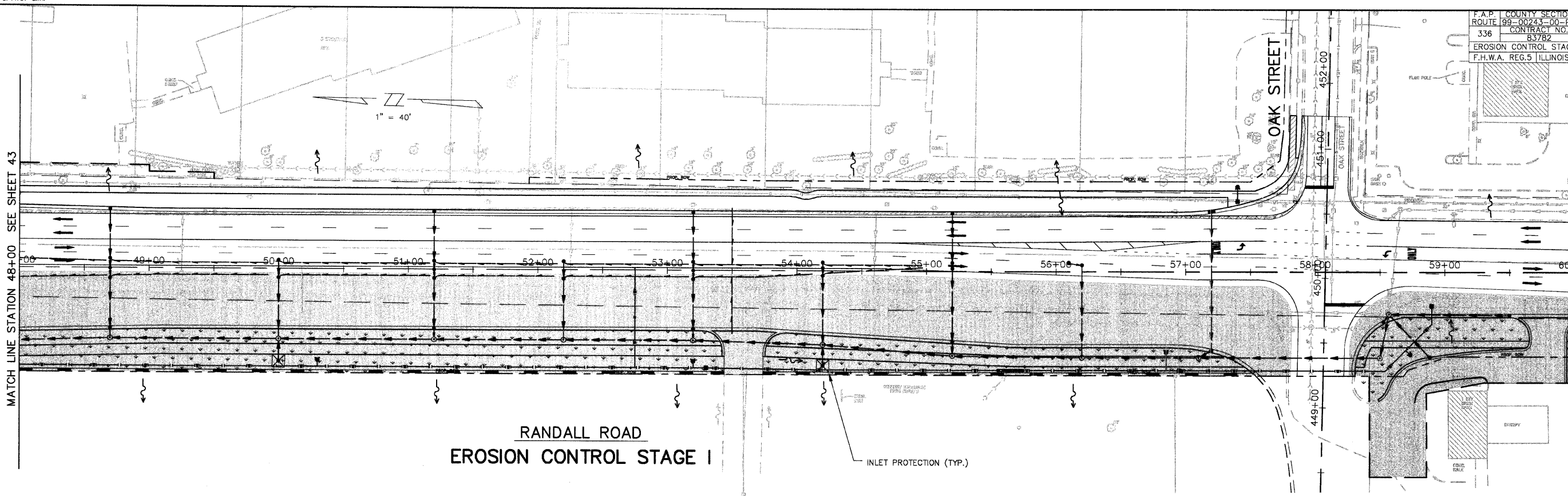
MATCH LINE STATION 36+00 SEE SHEET 42

MATCH LINE STATION 48+00 SEE SHEET 44

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
	CONTRACT NO.		44
	83782		
EROSION CONTROL STAGE 1 RANDALL ROAD			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			

MATCH LINE STATION 48+00 SEE SHEET 43

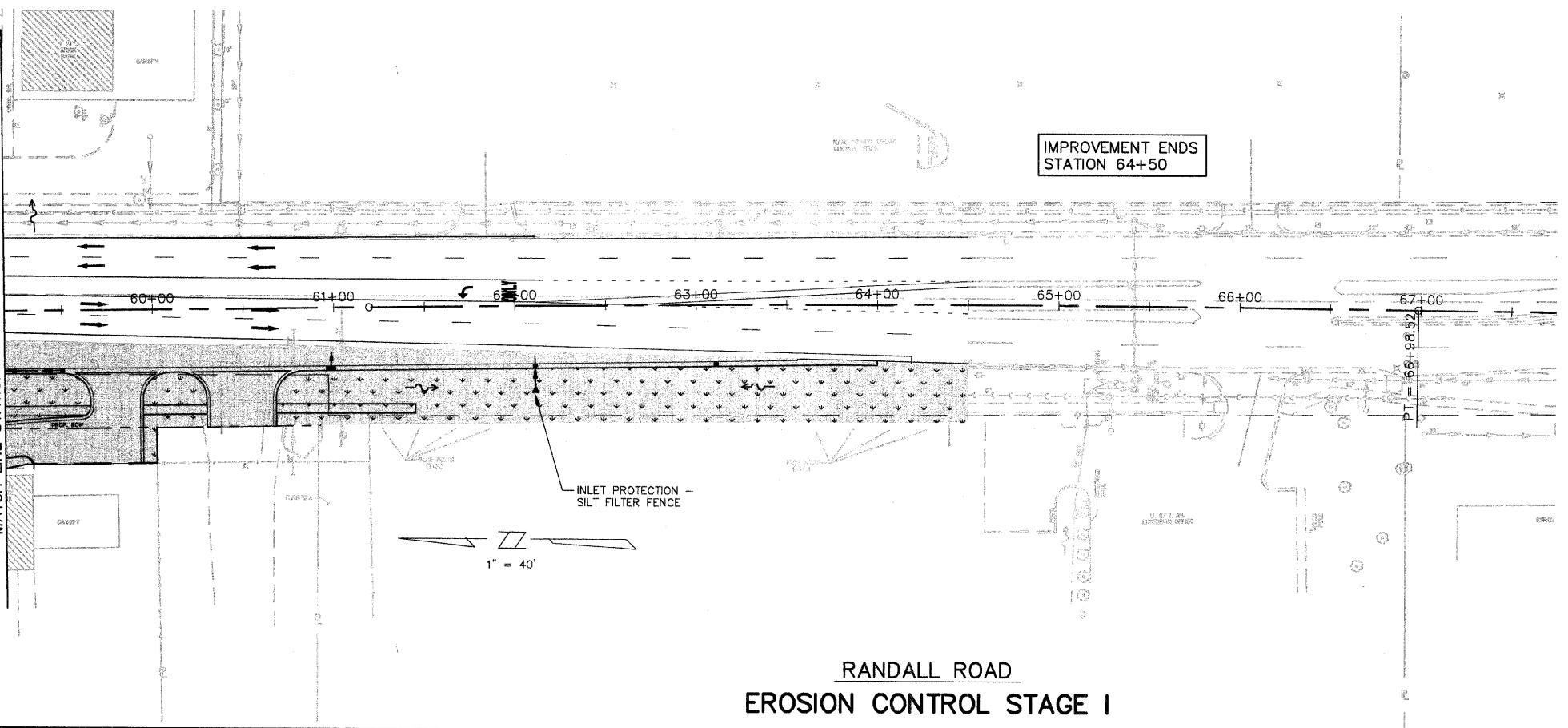
MATCH LINE STATION 60+00 SEE BELOW



RANDALL ROAD
 EROSION CONTROL STAGE I

INLET PROTECTION (TYP.)

MATCH LINE STATION 60+00 SEE ABOVE



RANDALL ROAD
 EROSION CONTROL STAGE I

IMPROVEMENT ENDS
 STATION 64+50

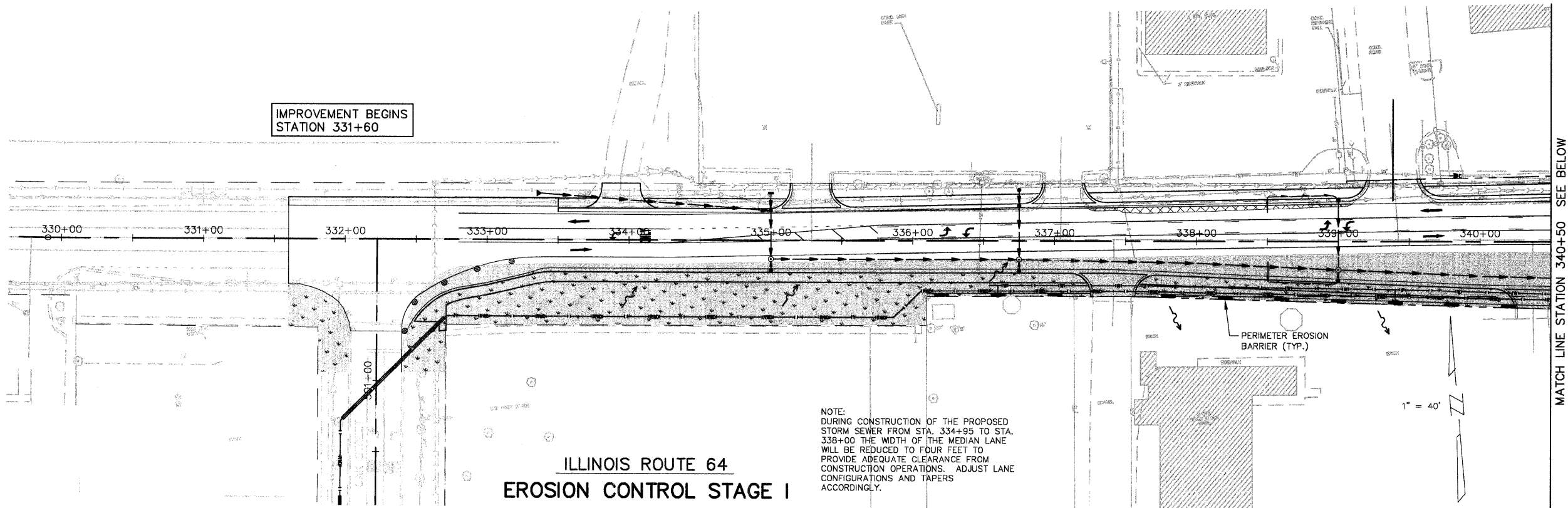
INLET PROTECTION -
 SILT FILTER FENCE

EROSION CONTROL LEGEND

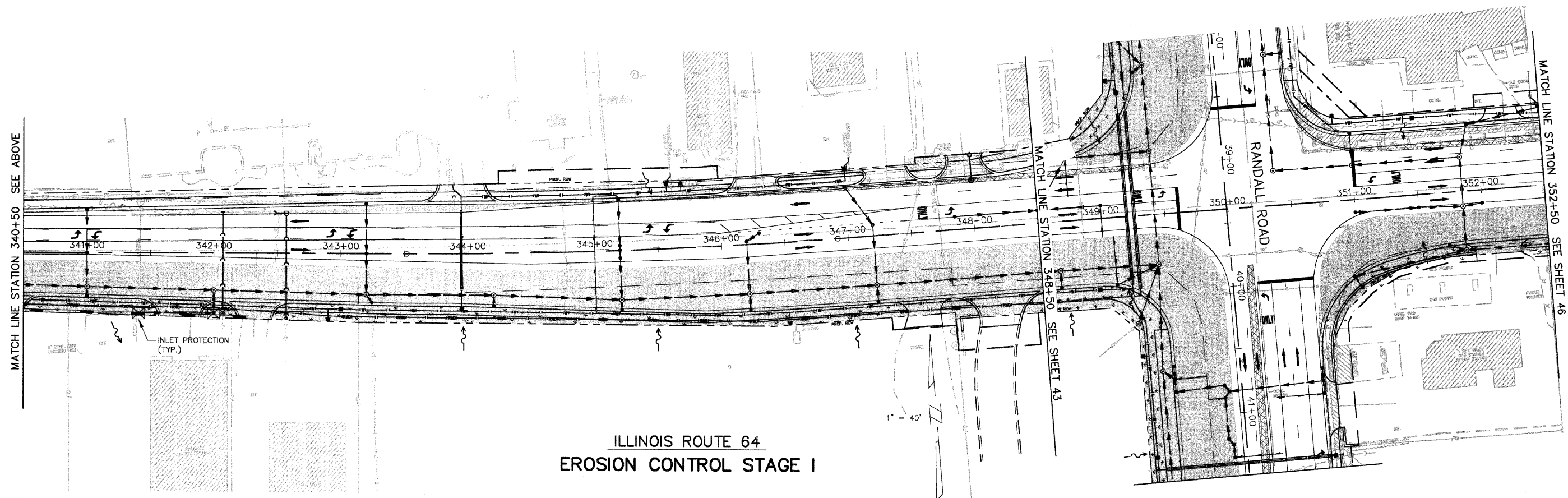
- LIMITS OF STAGE CONSTRUCTION
- EROSION CONTROL BLANKET (PERMANENT)
- EROSION CONTROL SEEDING & MULCH (TEMPORARY)
- SODDING (PERMANENT)
- SEEDING (PERMANENT)
- NATIVE PLANTINGS (PERMANENT)
- RIPRAP (PERMANENT) (SEE PLAN & PROFILE FOR DETAILS)
- PERIMETER EROSION BARRIER (TEMPORARY)
- PERIMETER EROSION BARRIER WITH ORANGE CONSTRUCTION FENCE (TEMPORARY)
- PERIMETER EROSION BARRIER WITH WIRE SUPPORT (TEMPORARY)
- DITCH CHECK (TEMPORARY)
- INLET PROTECTION (TEMPORARY)
- FLOW DIRECTION (SEE CROSS SECTIONS FOR DETAILS)
- PROPOSED STORM SEWER (SEE PLAN & PROFILE FOR DETAILS)

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
99-00243-00-PV			
336	83782	KANE	268 45
EROSION CONTROL STAGE 1 ILLINOIS ROUTE 64			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			

EROSION CONTROL LEGEND	
	LIMITS OF STAGE CONSTRUCTION
	EROSION CONTROL BLANKET (PERMANENT)
	EROSION CONTROL SEEDING & MULCH (TEMPORARY)
	SODDING (PERMANENT)
	SEEDING (PERMANENT)
	NATIVE PLANTINGS (PERMANENT)
	RIPRAP (PERMANENT) (SEE PLAN & PROFILE FOR DETAILS)
	PERIMETER EROSION BARRIER (TEMPORARY)
	PERIMETER EROSION BARRIER WITH ORANGE CONSTRUCTION FENCE (TEMPORARY)
	PERIMETER EROSION BARRIER WITH WIRE SUPPORT (TEMPORARY)
	DITCH CHECK (TEMPORARY)
	INLET PROTECTION (TEMPORARY)
	FLOW DIRECTION (SEE CROSS SECTIONS FOR DETAILS)
	PROPOSED STORM SEWER (SEE PLAN & PROFILE FOR DETAILS)

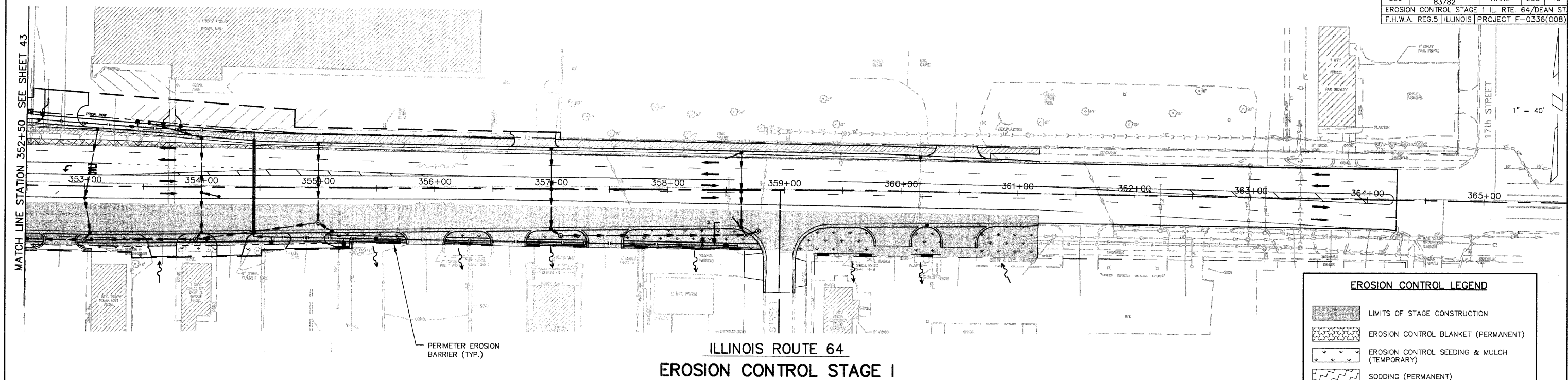


ILLINOIS ROUTE 64
 EROSION CONTROL STAGE I



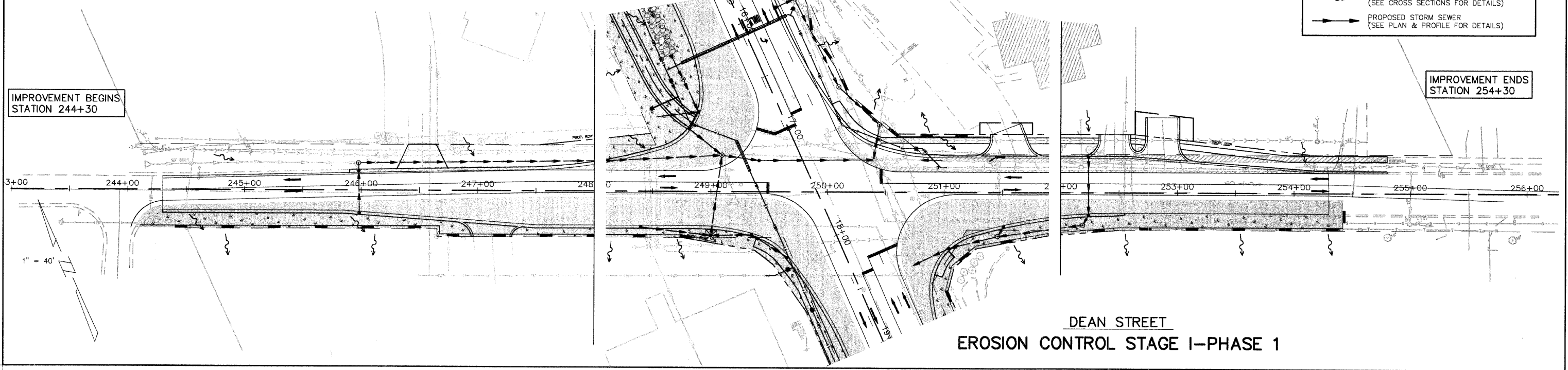
ILLINOIS ROUTE 64
 EROSION CONTROL STAGE I

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET NO.
336	99-00243-00-PV	KANE	268
	CONTRACT NO. 83782		46
EROSION CONTROL STAGE 1 ILL. RTE. 64/DEAN ST.			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



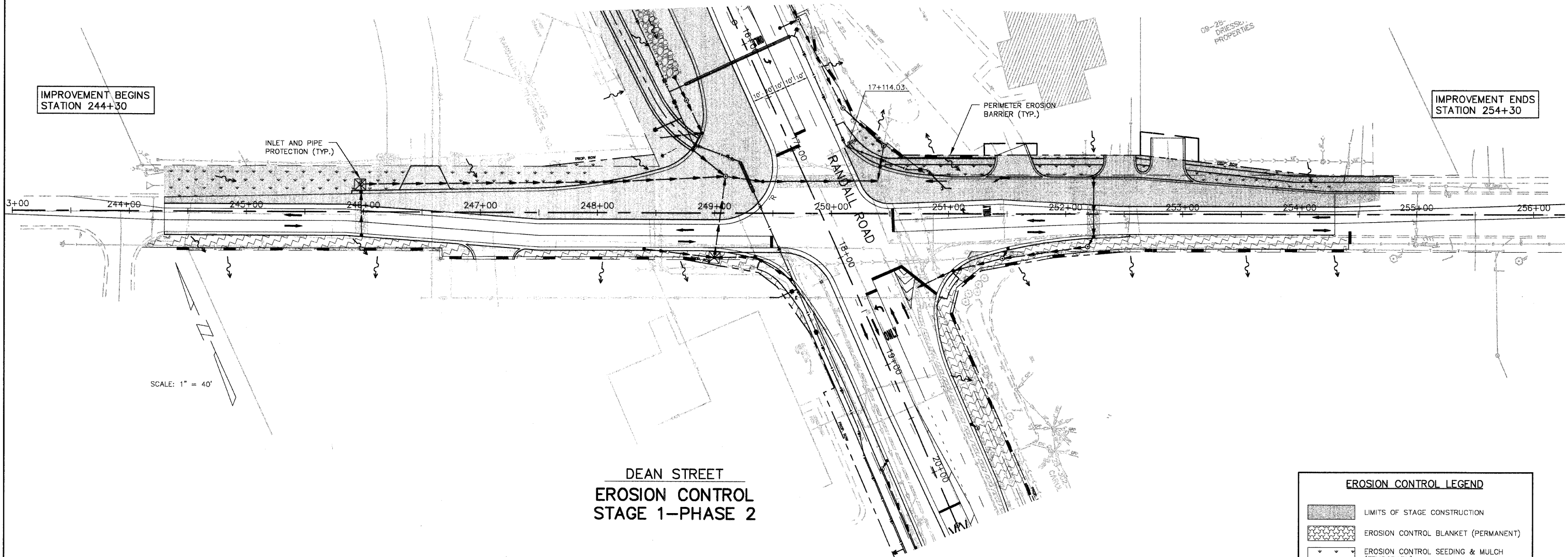
ILLINOIS ROUTE 64
 EROSION CONTROL STAGE I

EROSION CONTROL LEGEND	
[Pattern]	LIMITS OF STAGE CONSTRUCTION
[Pattern]	EROSION CONTROL BLANKET (PERMANENT)
[Pattern]	EROSION CONTROL SEEDING & MULCH (TEMPORARY)
[Pattern]	SODDING (PERMANENT)
[Pattern]	SEEDING (PERMANENT)
[Pattern]	NATIVE PLANTINGS (PERMANENT)
[Pattern]	RIPRAP (PERMANENT) (SEE PLAN & PROFILE FOR DETAILS)
[Symbol]	PERIMETER EROSION BARRIER (TEMPORARY)
[Symbol]	PERIMETER EROSION BARRIER WITH ORANGE CONSTRUCTION FENCE (TEMPORARY)
[Symbol]	PERIMETER EROSION BARRIER WITH WIRE SUPPORT (TEMPORARY)
[Symbol]	DITCH CHECK (TEMPORARY)
[Symbol]	INLET PROTECTION (TEMPORARY)
[Symbol]	FLOW DIRECTION (SEE CROSS SECTIONS FOR DETAILS)
[Symbol]	PROPOSED STORM SEWER (SEE PLAN & PROFILE FOR DETAILS)

















DEAN STREET
 EROSION CONTROL STAGE I-PHASE 1

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	SHITS. NO.
	83782		268 47
EROSION CONTROL STAGE 1A DEAN STREET			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



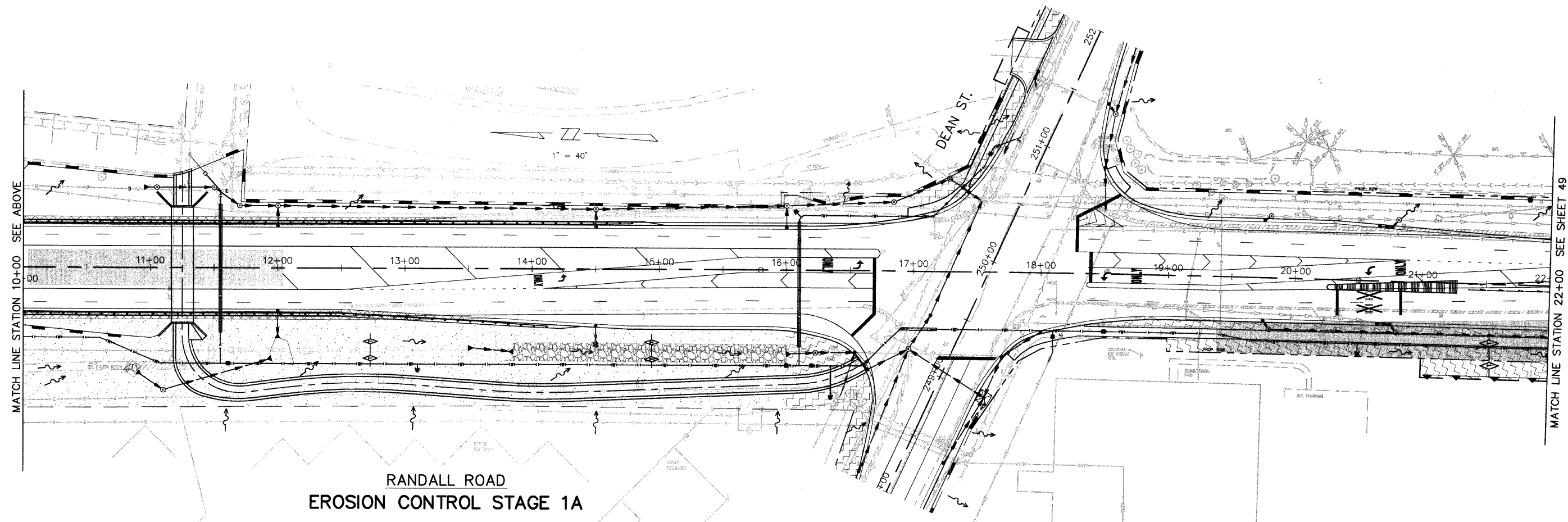
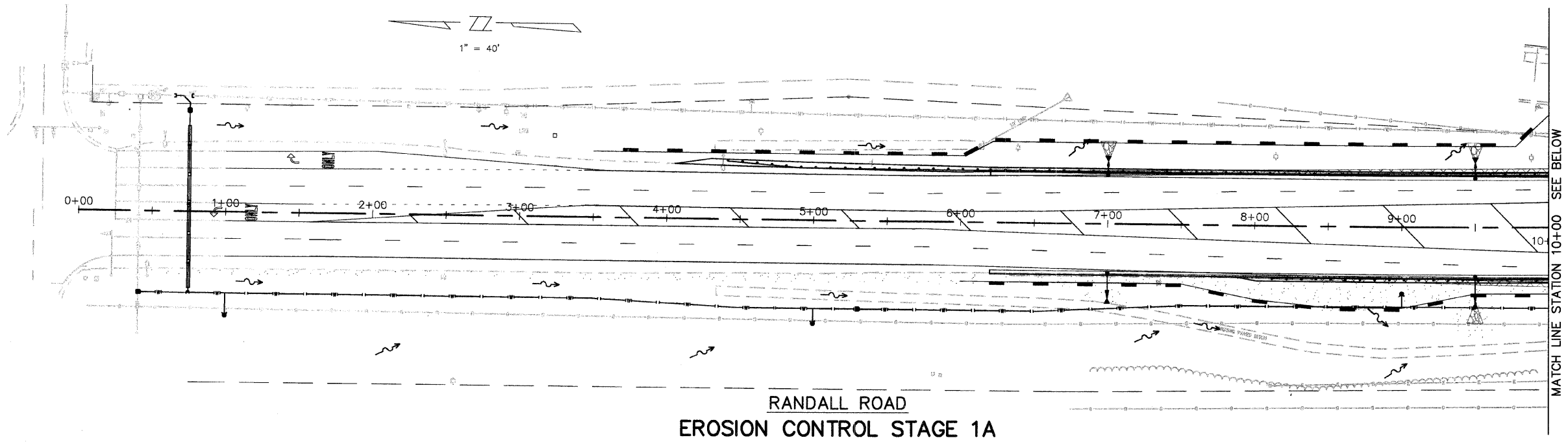
DEAN STREET
 EROSION CONTROL
 STAGE 1-PHASE 2

EROSION CONTROL LEGEND

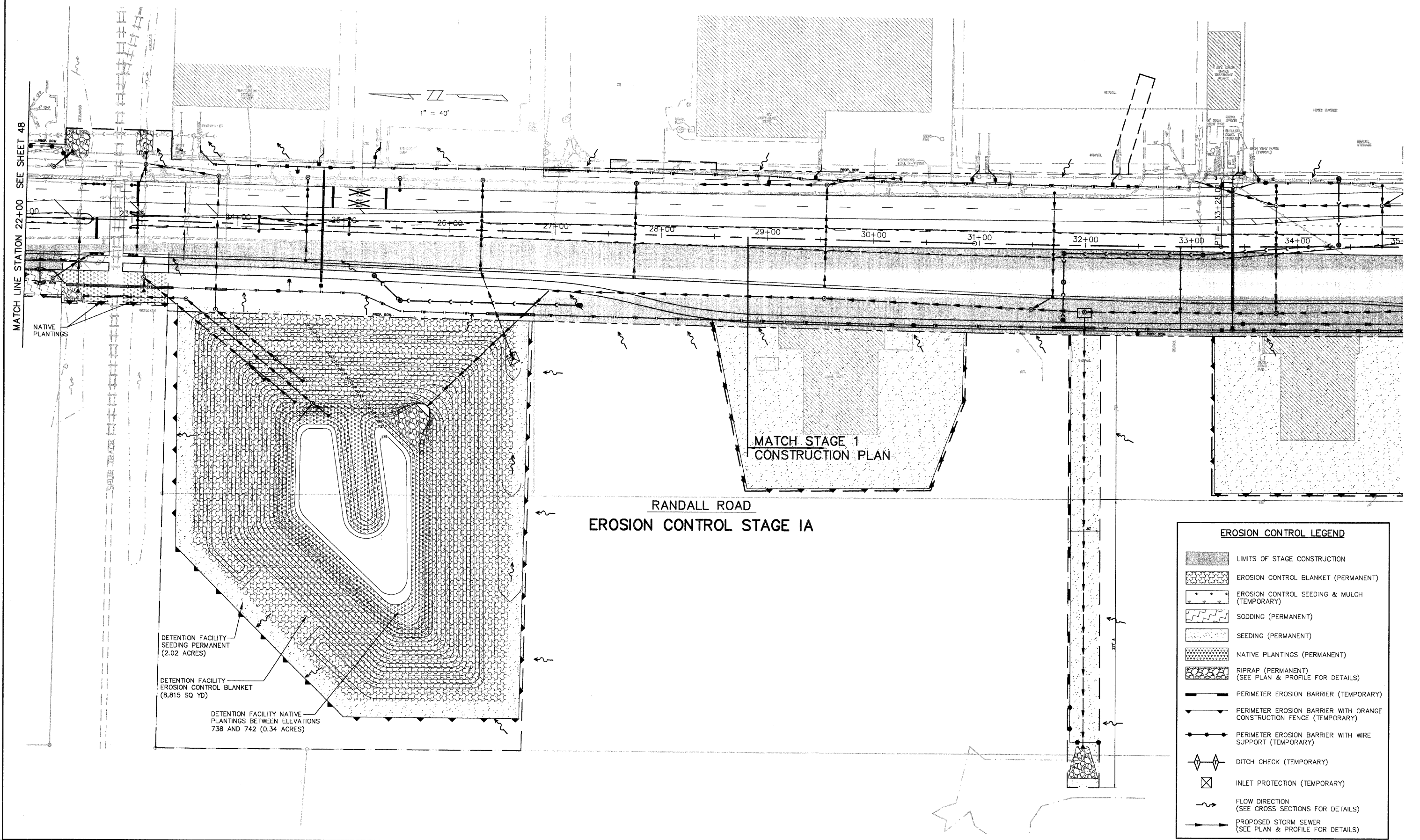
-  LIMITS OF STAGE CONSTRUCTION
-  EROSION CONTROL BLANKET (PERMANENT)
-  EROSION CONTROL SEEDING & MULCH (TEMPORARY)
-  SODDING (PERMANENT)
-  SEEDING (PERMANENT)
-  NATIVE PLANTINGS (PERMANENT)
-  RIPRAP (PERMANENT)
(SEE PLAN & PROFILE FOR DETAILS)
-  PERIMETER EROSION BARRIER (TEMPORARY)
-  PERIMETER EROSION BARRIER WITH ORANGE CONSTRUCTION FENCE (TEMPORARY)
-  PERIMETER EROSION BARRIER WITH WIRE SUPPORT (TEMPORARY)
-  DITCH CHECK (TEMPORARY)
-  INLET PROTECTION (TEMPORARY)
-  FLOW DIRECTION
(SEE CROSS SECTIONS FOR DETAILS)
-  PROPOSED STORM SEWER
(SEE PLAN & PROFILE FOR DETAILS)

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-P17	KANE	268
	CONTRACT NO. 83782		48
EROSION CONTROL STAGE 1A RANDALL ROAD			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(00B)			

EROSION CONTROL LEGEND	
	LIMITS OF STAGE CONSTRUCTION
	EROSION CONTROL BLANKET (PERMANENT)
	EROSION CONTROL SEEDING & MULCH (TEMPORARY)
	SODDING (PERMANENT)
	SEEDING (PERMANENT)
	NATIVE PLANTINGS (PERMANENT)
	RIPRAP (PERMANENT) (SEE PLAN & PROFILE FOR DETAILS)
	PERIMETER EROSION BARRIER (TEMPORARY)
	PERIMETER EROSION BARRIER WITH ORANGE CONSTRUCTION FENCE (TEMPORARY)
	PERIMETER EROSION BARRIER WITH WIRE SUPPORT (TEMPORARY)
	DITCH CHECK (TEMPORARY)
	INLET PROTECTION (TEMPORARY)
	FLOW DIRECTION (SEE CROSS SECTIONS FOR DETAILS)
	PROPOSED STORM SEWER (SEE PLAN & PROFILE FOR DETAILS)



F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
	CONTRACT NO. 83782		49
EROSION CONTROL STAGE 1A RANDALL ROAD			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



MATCH LINE STATION 22+00 SEE SHEET 48

1" = 40'

MATCH STAGE 1
CONSTRUCTION PLAN

RANDALL ROAD
EROSION CONTROL STAGE 1A

DETENTION FACILITY
SEEDING PERMANENT
(2.02 ACRES)

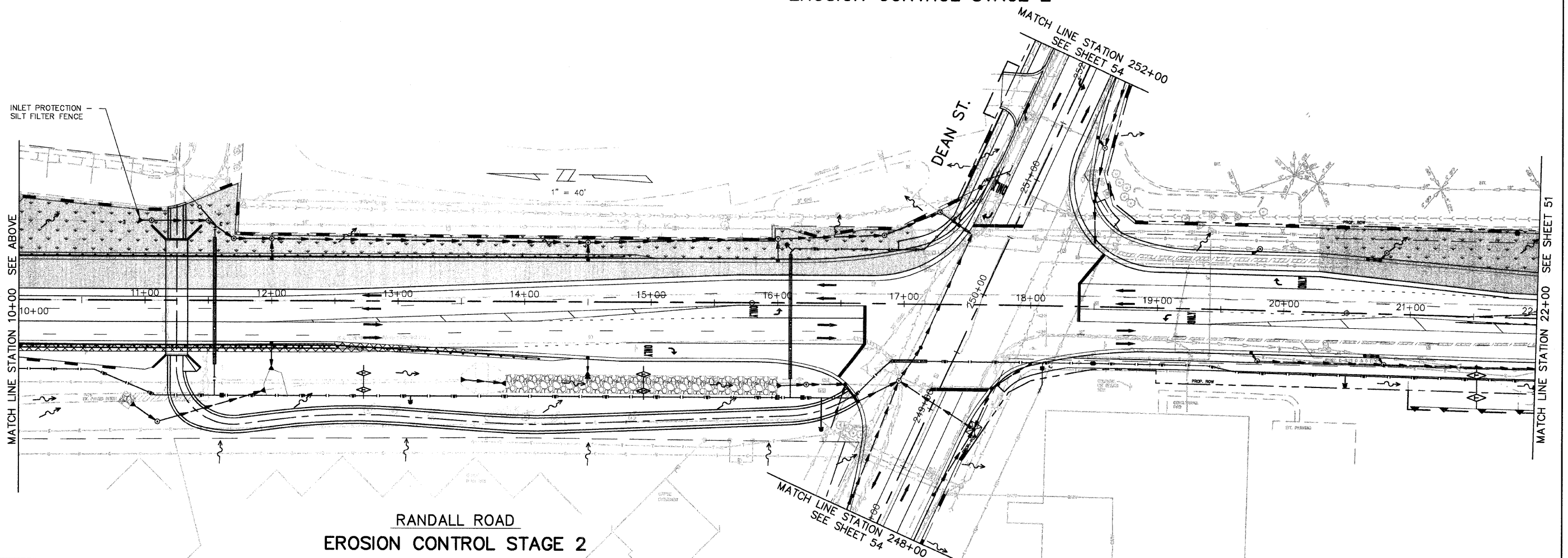
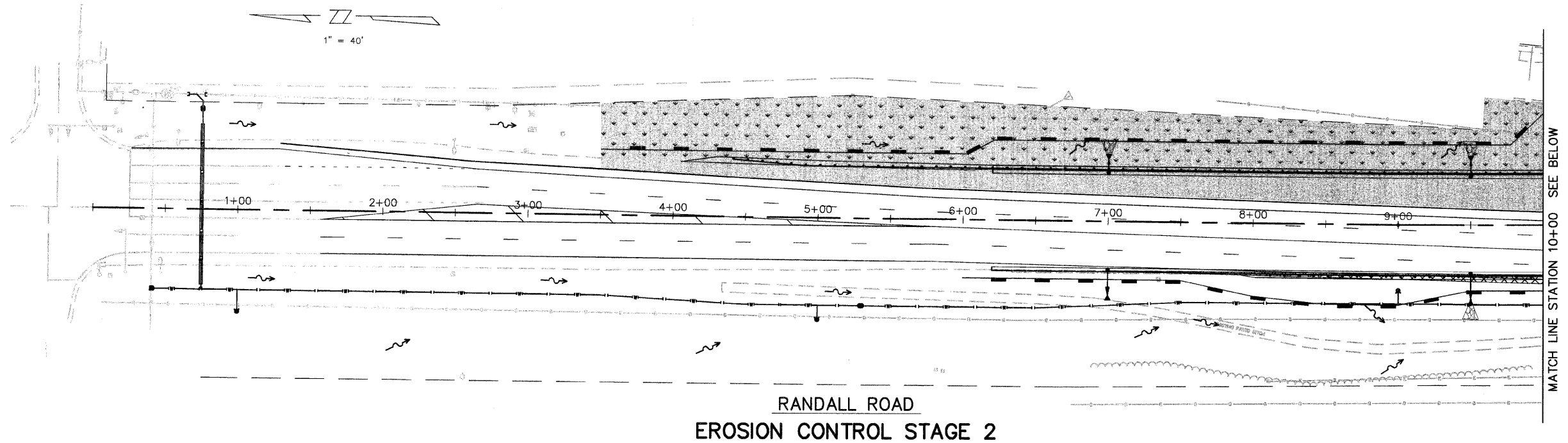
DETENTION FACILITY
EROSION CONTROL BLANKET
(8,815 SQ YD)

DETENTION FACILITY NATIVE
PLANTINGS BETWEEN ELEVATIONS
738 AND 742 (0.34 ACRES)

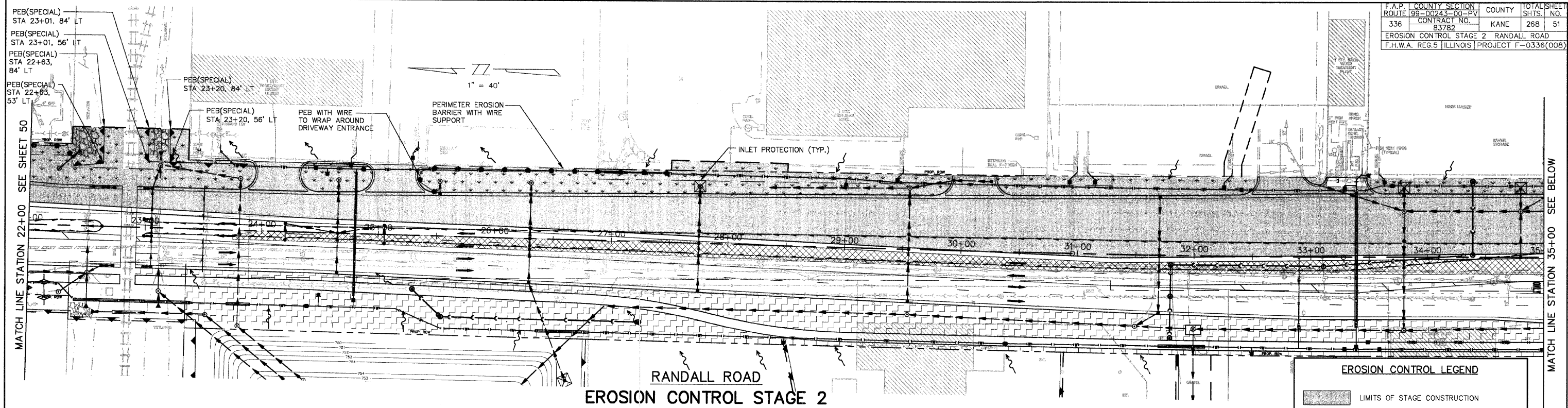
EROSION CONTROL LEGEND	
	LIMITS OF STAGE CONSTRUCTION
	EROSION CONTROL BLANKET (PERMANENT)
	EROSION CONTROL SEEDING & MULCH (TEMPORARY)
	SODDING (PERMANENT)
	SEEDING (PERMANENT)
	NATIVE PLANTINGS (PERMANENT)
	RIPRAP (PERMANENT) (SEE PLAN & PROFILE FOR DETAILS)
	PERIMETER EROSION BARRIER (TEMPORARY)
	PERIMETER EROSION BARRIER WITH ORANGE CONSTRUCTION FENCE (TEMPORARY)
	PERIMETER EROSION BARRIER WITH WIRE SUPPORT (TEMPORARY)
	DITCH CHECK (TEMPORARY)
	INLET PROTECTION (TEMPORARY)
	FLOW DIRECTION (SEE CROSS SECTIONS FOR DETAILS)
	PROPOSED STORM SEWER (SEE PLAN & PROFILE FOR DETAILS)

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
	CONTRACT NO.		NO.
	83782		50
EROSION CONTROL STAGE 2 RANDALL ROAD			
F.H.W.A. REG.5 ILLINOIS		PROJECT F-0336(00B)	

EROSION CONTROL LEGEND	
	LIMITS OF STAGE CONSTRUCTION
	EROSION CONTROL BLANKET (PERMANENT)
	EROSION CONTROL SEEDING & MULCH (TEMPORARY)
	SODDING (PERMANENT)
	SEEDING (PERMANENT)
	NATIVE PLANTINGS (PERMANENT)
	RIPRAP (PERMANENT) (SEE PLAN & PROFILE FOR DETAILS)
	PERIMETER EROSION BARRIER (TEMPORARY)
	PERIMETER EROSION BARRIER WITH ORANGE CONSTRUCTION FENCE (TEMPORARY)
	PERIMETER EROSION BARRIER WITH WIRE SUPPORT (TEMPORARY)
	DITCH CHECK (TEMPORARY)
	INLET PROTECTION (TEMPORARY)
	FLOW DIRECTION (SEE CROSS SECTIONS FOR DETAILS)
	PROPOSED STORM SEWER (SEE PLAN & PROFILE FOR DETAILS)

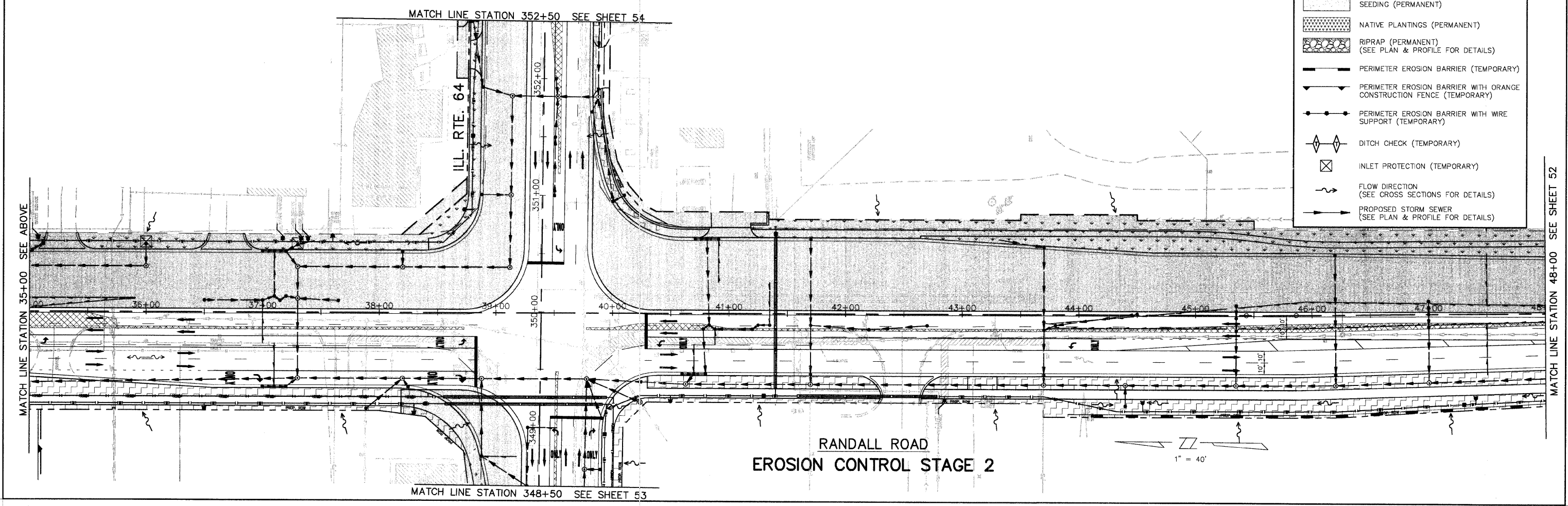


F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET SHTS.	NO.
336	99-00243-00-PV	KANE	268	51
CONTRACT NO. 83782				
EROSION CONTROL STAGE 2 RANDALL ROAD				
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(00B)				



EROSION CONTROL LEGEND

- LIMITS OF STAGE CONSTRUCTION
- EROSION CONTROL BLANKET (PERMANENT)
- EROSION CONTROL SEEDING & MULCH (TEMPORARY)
- SODDING (PERMANENT)
- SEEDING (PERMANENT)
- NATIVE PLANTINGS (PERMANENT)
- RIPRAP (PERMANENT) (SEE PLAN & PROFILE FOR DETAILS)
- PERIMETER EROSION BARRIER (TEMPORARY)
- PERIMETER EROSION BARRIER WITH ORANGE CONSTRUCTION FENCE (TEMPORARY)
- PERIMETER EROSION BARRIER WITH WIRE SUPPORT (TEMPORARY)
- DITCH CHECK (TEMPORARY)
- INLET PROTECTION (TEMPORARY)
- FLOW DIRECTION (SEE CROSS SECTIONS FOR DETAILS)
- PROPOSED STORM SEWER (SEE PLAN & PROFILE FOR DETAILS)



F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
CONTRACT NO.	PROJECT		SHTS. NO.
83782	EROSION CONTROL STAGE 2 RANDALL ROAD		52
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			

MATCH LINE STATION 48+00 SEE SHEET 51

MATCH LINE STATION 60+00 SEE BELOW















MATCH LINE STATION 60+00 SEE ABOVE

PRAIRIE STREET

RANDALL ROAD
 EROSION CONTROL STAGE 2

1" = 40'

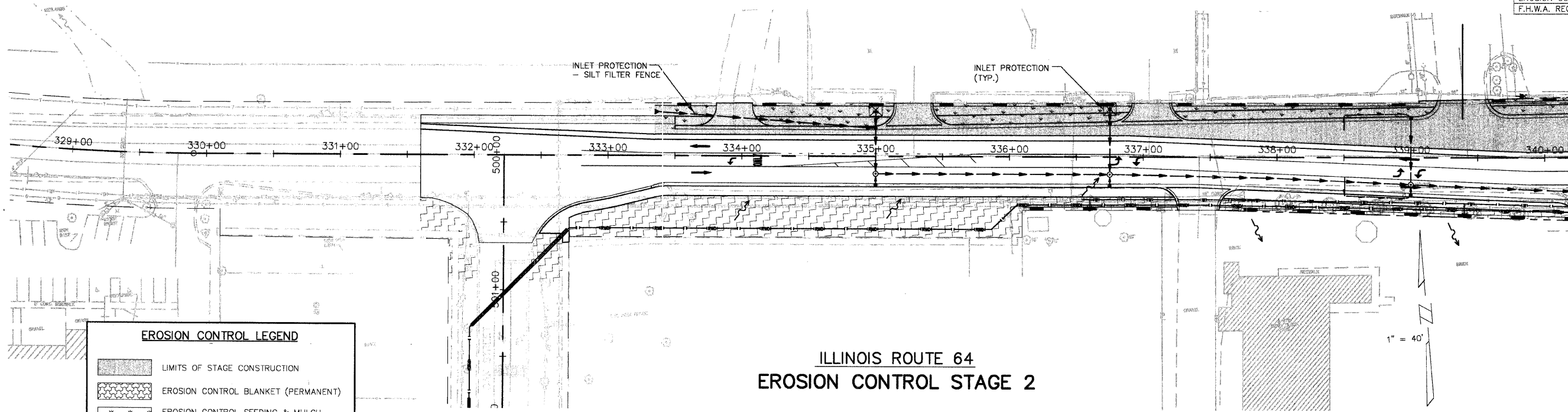
EROSION CONTROL LEGEND

-  LIMITS OF STAGE CONSTRUCTION
-  EROSION CONTROL BLANKET (PERMANENT)
-  EROSION CONTROL SEEDING & MULCH (TEMPORARY)
-  SODDING (PERMANENT)
-  SEEDING (PERMANENT)
-  NATIVE PLANTINGS (PERMANENT)
-  RIPRAP (PERMANENT)
(SEE PLAN & PROFILE FOR DETAILS)
-  PERIMETER EROSION BARRIER (TEMPORARY)
-  PERIMETER EROSION BARRIER WITH ORANGE CONSTRUCTION FENCE (TEMPORARY)
-  PERIMETER EROSION BARRIER WITH WIRE SUPPORT (TEMPORARY)
-  DITCH CHECK (TEMPORARY)
-  INLET PROTECTION (TEMPORARY)
-  FLOW DIRECTION
(SEE CROSS SECTIONS FOR DETAILS)
-  PROPOSED STORM SEWER
(SEE PLAN & PROFILE FOR DETAILS)

RANDALL ROAD
 EROSION CONTROL STAGE 2

1" = 40'

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET SHTS.	NO.
336	99-00243-00-PV	KANE	268	53
CONTRACT NO. 83782				
EROSION CONTROL STAGE 2		RANDALL ROAD		
F.H.W.A. REG.5 ILLINOIS		PROJECT F-0336(008)		

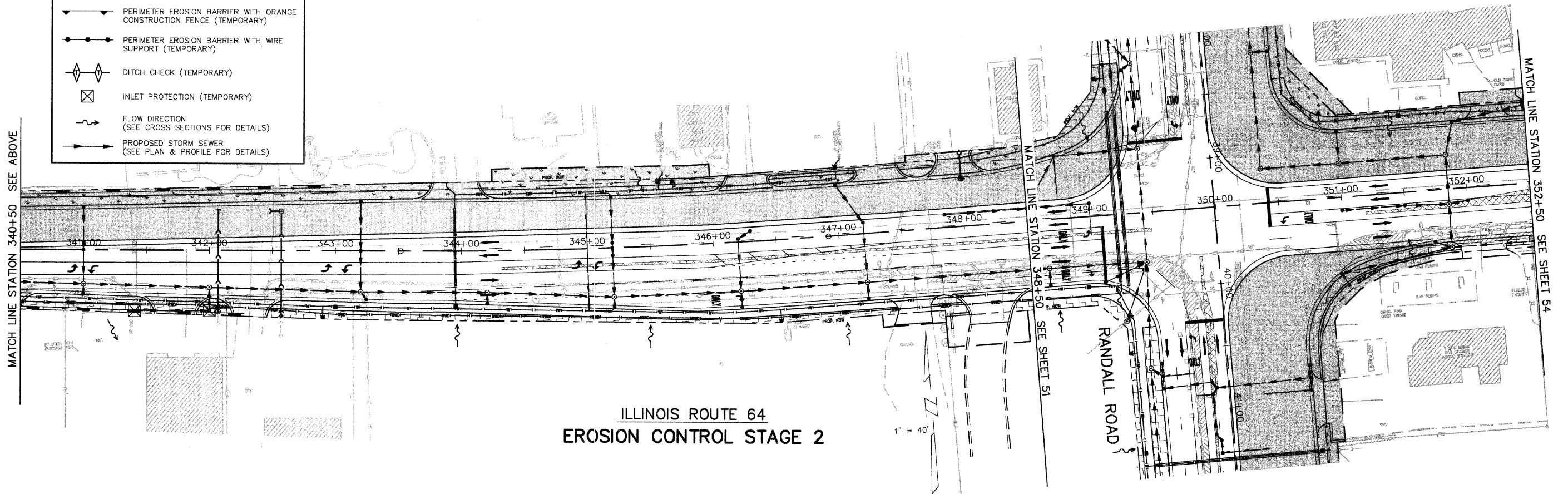


ILLINOIS ROUTE 64
EROSION CONTROL STAGE 2

EROSION CONTROL LEGEND

- LIMITS OF STAGE CONSTRUCTION
- EROSION CONTROL BLANKET (PERMANENT)
- EROSION CONTROL SEEDING & MULCH (TEMPORARY)
- SODDING (PERMANENT)
- SEEDING (PERMANENT)
- NATIVE PLANTINGS (PERMANENT)
- RIPRAP (PERMANENT)
(SEE PLAN & PROFILE FOR DETAILS)
- PERIMETER EROSION BARRIER (TEMPORARY)
- PERIMETER EROSION BARRIER WITH ORANGE CONSTRUCTION FENCE (TEMPORARY)
- PERIMETER EROSION BARRIER WITH WIRE SUPPORT (TEMPORARY)
- DITCH CHECK (TEMPORARY)
- INLET PROTECTION (TEMPORARY)
- FLOW DIRECTION
(SEE CROSS SECTIONS FOR DETAILS)
- PROPOSED STORM SEWER
(SEE PLAN & PROFILE FOR DETAILS)

MATCH LINE STATION 340+50 SEE ABOVE

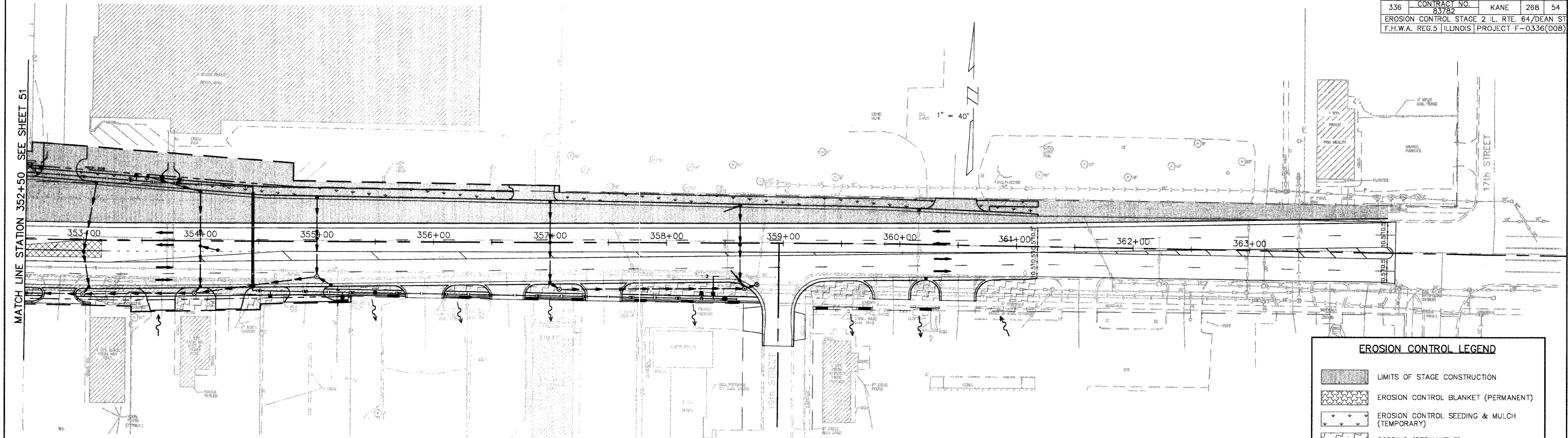


ILLINOIS ROUTE 64
EROSION CONTROL STAGE 2

MATCH LINE STATION 340+50 SEE BELOW

MATCH LINE STATION 352+50 SEE SHEET 54

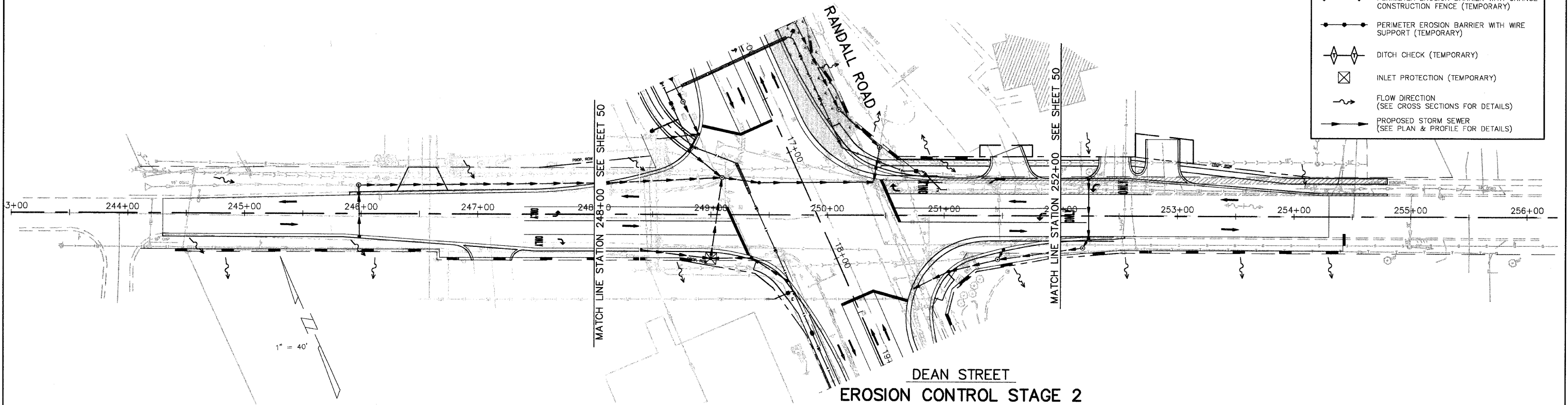
F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET SHTS.	NO.
99-00243-00-PV		KANE	268	54
336	CONTRACT NO. 83782			
EROSION CONTROL STAGE 2 I.L. RTE. 64/DEAN ST				
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(00B)				



ILLINOIS ROUTE 64
 EROSION CONTROL STAGE 2

EROSION CONTROL LEGEND















- LIMITS OF STAGE CONSTRUCTION
- EROSION CONTROL BLANKET (PERMANENT)
- EROSION CONTROL SEEDING & MULCH (TEMPORARY)
- SODDING (PERMANENT)
- SEEDING (PERMANENT)
- NATIVE PLANTINGS (PERMANENT)
- RIPRAP (PERMANENT) (SEE PLAN & PROFILE FOR DETAILS)
- PERIMETER EROSION BARRIER (TEMPORARY)
- PERIMETER EROSION BARRIER WITH ORANGE CONSTRUCTION FENCE (TEMPORARY)
- PERIMETER EROSION BARRIER WITH WIRE SUPPORT (TEMPORARY)
- DITCH CHECK (TEMPORARY)
- INLET PROTECTION (TEMPORARY)
- FLOW DIRECTION (SEE CROSS SECTIONS FOR DETAILS)
- PROPOSED STORM SEWER (SEE PLAN & PROFILE FOR DETAILS)

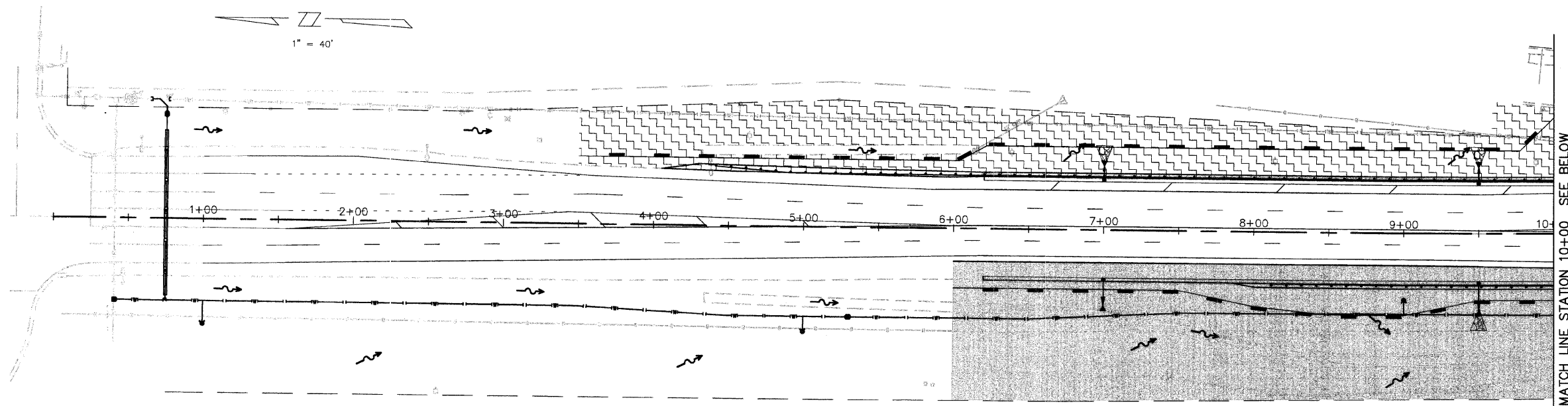


DEAN STREET
 EROSION CONTROL STAGE 2

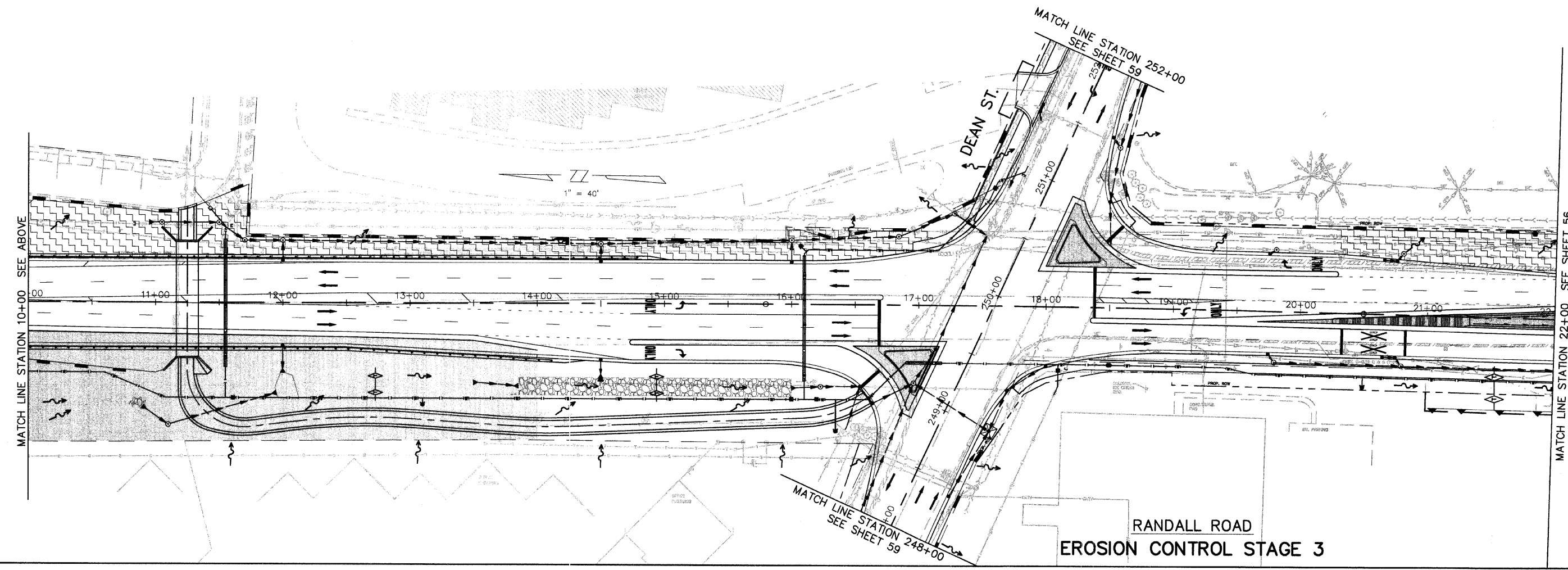
F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEETS
336	99-00243-00-PV	KANE	268
CONTRACT NO. 83782			55
EROSION CONTROL STAGE 3 RANDALL ROAD			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			

EROSION CONTROL LEGEND

-  LIMITS OF STAGE CONSTRUCTION
-  EROSION CONTROL BLANKET (PERMANENT)
-  EROSION CONTROL SEEDING & MULCH (TEMPORARY)
-  SODDING (PERMANENT)
-  SEEDING (PERMANENT)
-  NATIVE PLANTINGS (PERMANENT)
-  RIPRAP (PERMANENT)
(SEE PLAN & PROFILE FOR DETAILS)
-  PERIMETER EROSION BARRIER (TEMPORARY)
-  PERIMETER EROSION BARRIER WITH ORANGE CONSTRUCTION FENCE (TEMPORARY)
-  PERIMETER EROSION BARRIER WITH WIRE SUPPORT (TEMPORARY)
-  DITCH CHECK (TEMPORARY)
-  INLET PROTECTION (TEMPORARY)
-  FLOW DIRECTION
(SEE CROSS SECTIONS FOR DETAILS)
-  PROPOSED STORM SEWER
(SEE PLAN & PROFILE FOR DETAILS)

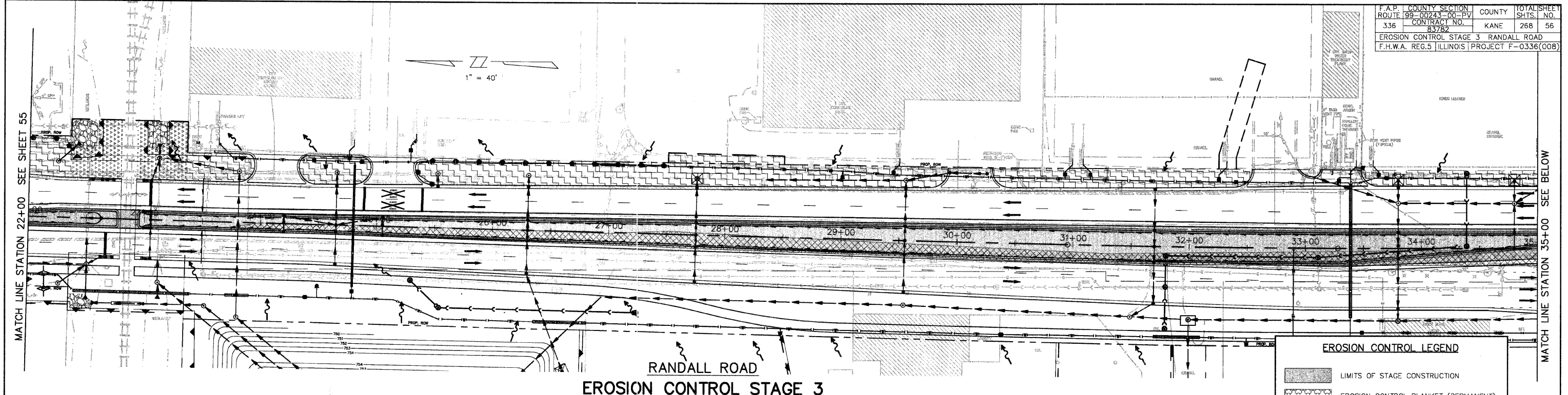


**RANDALL ROAD
 EROSION CONTROL STAGE 3**



**RANDALL ROAD
 EROSION CONTROL STAGE 3**

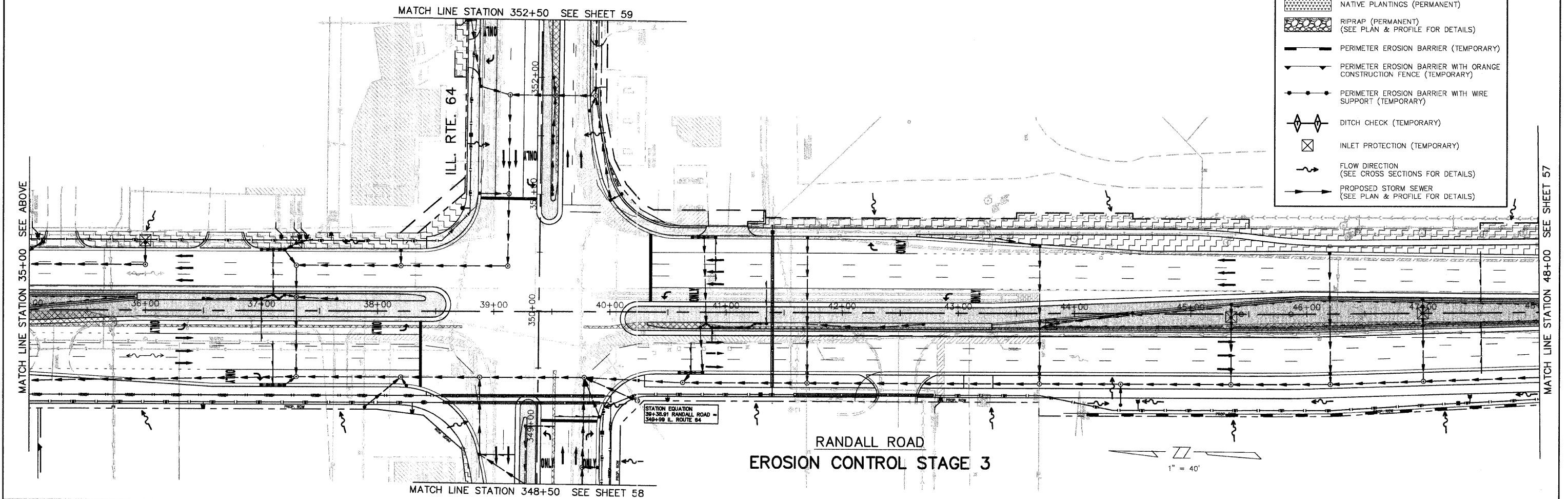
F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	99-00243-00-PV	KANE	268	56
CONTRACT NO. 83782				
EROSION CONTROL STAGE 3 RANDALL ROAD				
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(00B)				



RANDALL ROAD
 EROSION CONTROL STAGE 3

EROSION CONTROL LEGEND

- LIMITS OF STAGE CONSTRUCTION
- EROSION CONTROL BLANKET (PERMANENT)
- EROSION CONTROL SEEDING & MULCH (TEMPORARY)
- SODDING (PERMANENT)
- SEEDING (PERMANENT)
- NATIVE PLANTINGS (PERMANENT)
- RIPRAP (PERMANENT) (SEE PLAN & PROFILE FOR DETAILS)
- PERIMETER EROSION BARRIER (TEMPORARY)
- PERIMETER EROSION BARRIER WITH ORANGE CONSTRUCTION FENCE (TEMPORARY)
- PERIMETER EROSION BARRIER WITH WIRE SUPPORT (TEMPORARY)
- DITCH CHECK (TEMPORARY)
- INLET PROTECTION (TEMPORARY)
- FLOW DIRECTION (SEE CROSS SECTIONS FOR DETAILS)
- PROPOSED STORM SEWER (SEE PLAN & PROFILE FOR DETAILS)



RANDALL ROAD
 EROSION CONTROL STAGE 3

STATION EQUATION
 348+36.01 RANDALL ROAD =
 348+00 ILL. ROUTE 64

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
CONTRACT NO.	SHTS. NO.		
83782	268 57		
EROSION CONTROL STAGE 3 RANDALL ROAD			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			

MATCH LINE STATION 48+00 SEE SHEET 56

MATCH LINE STATION 80+00 SEE BELOW

EROSION CONTROL LEGEND	
	LIMITS OF STAGE CONSTRUCTION
	EROSION CONTROL BLANKET (PERMANENT)
	EROSION CONTROL SEEDING & MULCH (TEMPORARY)
	SODDING (PERMANENT)
	SEEDING (PERMANENT)
	NATIVE PLANTINGS (PERMANENT)
	RIPRAP (PERMANENT) (SEE PLAN & PROFILE FOR DETAILS)
	PERIMETER EROSION BARRIER (TEMPORARY)
	PERIMETER EROSION BARRIER WITH ORANGE CONSTRUCTION FENCE (TEMPORARY)
	PERIMETER EROSION BARRIER WITH WIRE SUPPORT (TEMPORARY)
	DITCH CHECK (TEMPORARY)
	INLET PROTECTION (TEMPORARY)
	FLOW DIRECTION (SEE CROSS SECTIONS FOR DETAILS)
	PROPOSED STORM SEWER (SEE PLAN & PROFILE FOR DETAILS)

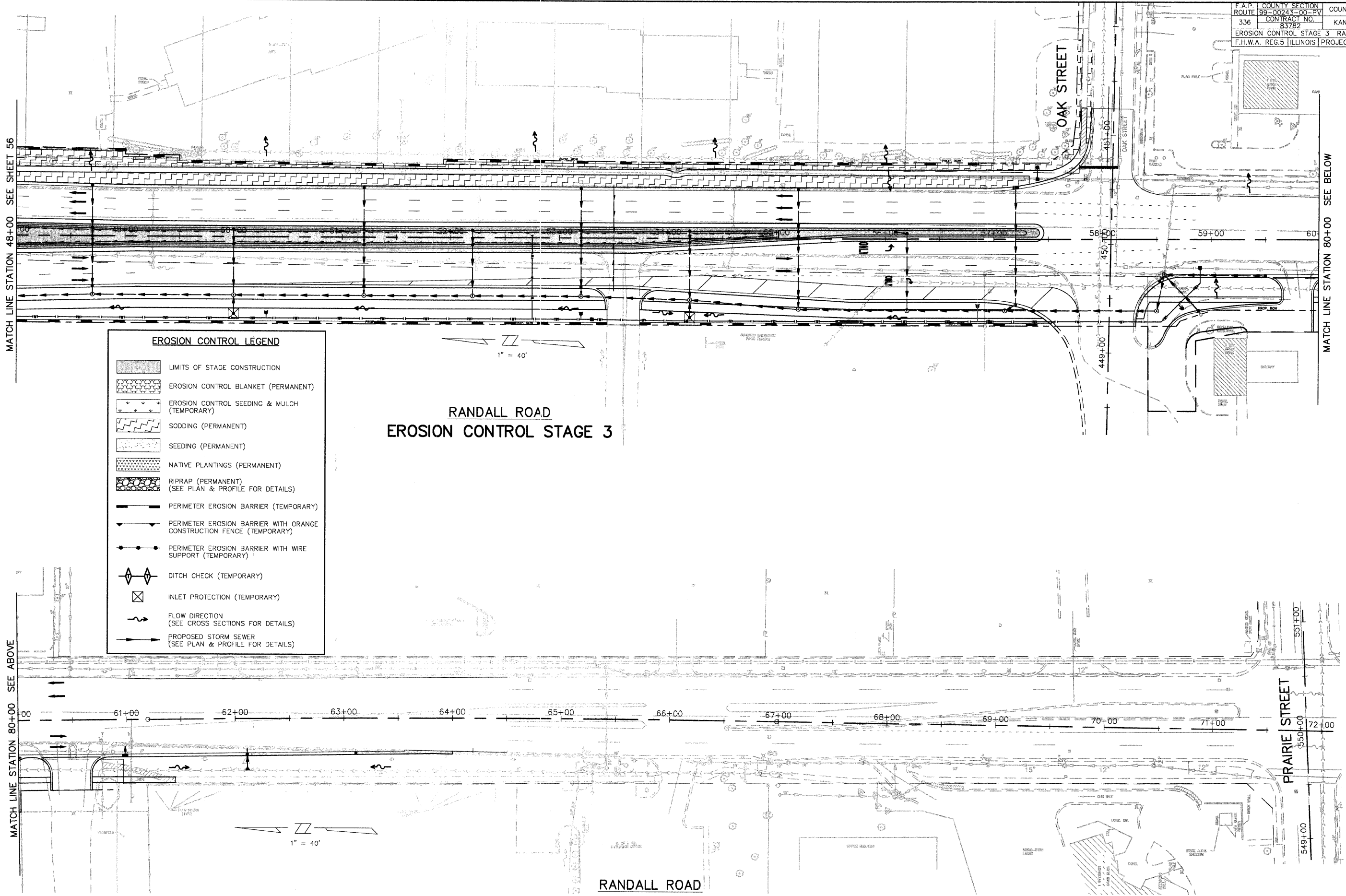
RANDALL ROAD
 EROSION CONTROL STAGE 3

1" = 40'

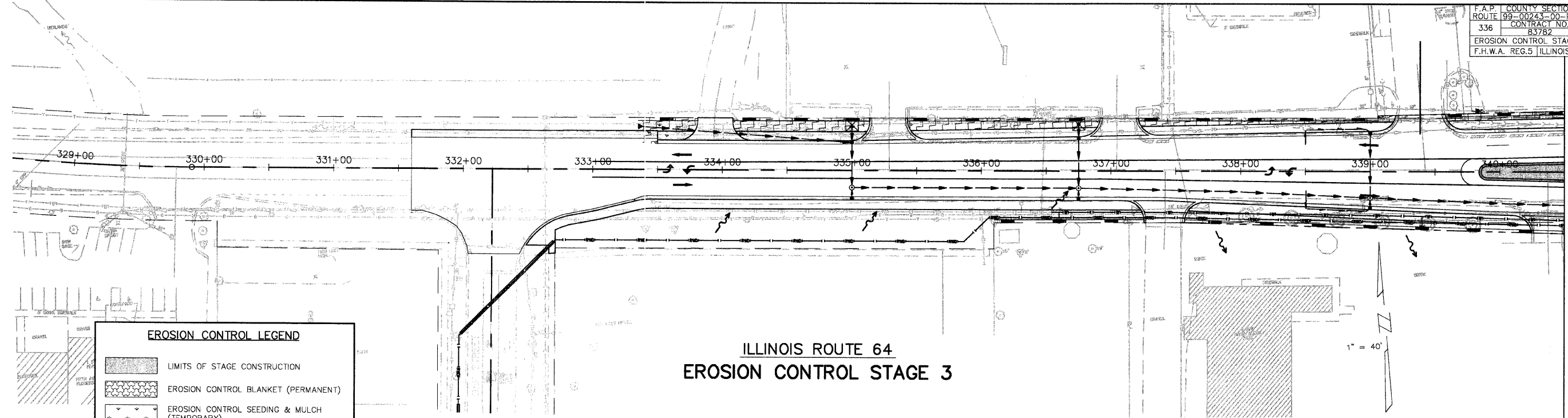
MATCH LINE STATION 80+00 SEE ABOVE

RANDALL ROAD
 EROSION CONTROL STAGE 3

1" = 40'



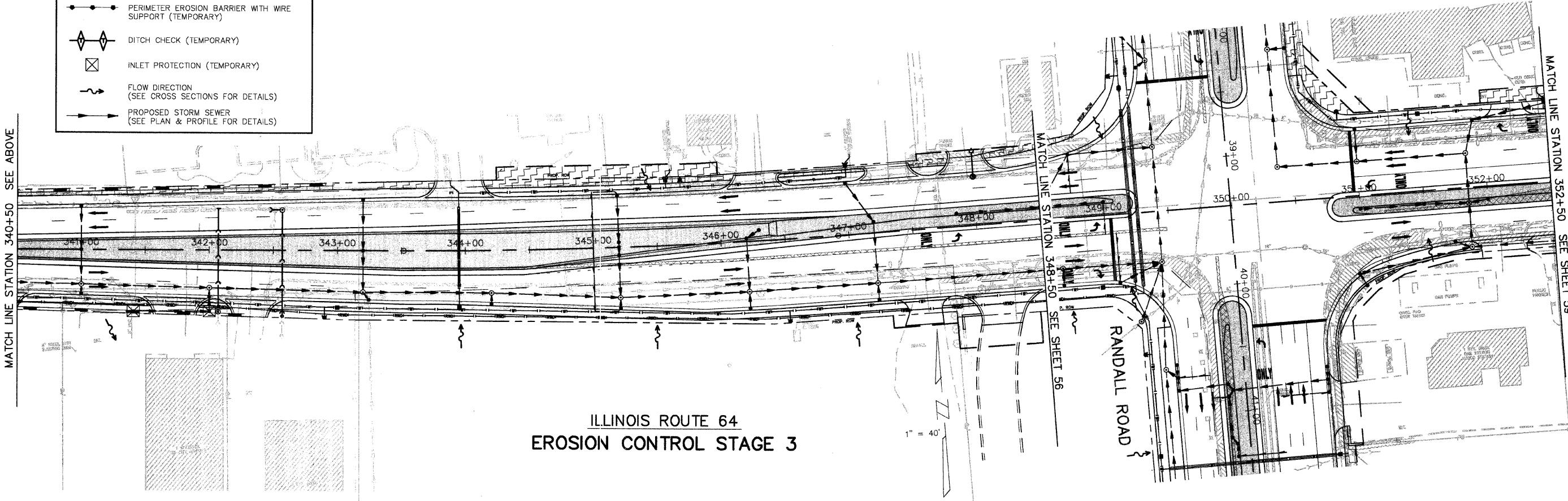
F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
	CONTRACT NO. 83782		58
EROSION CONTROL STAGE 3 ILLINOIS ROUTE 64			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



ILLINOIS ROUTE 64
 EROSION CONTROL STAGE 3

EROSION CONTROL LEGEND	
	LIMITS OF STAGE CONSTRUCTION
	EROSION CONTROL BLANKET (PERMANENT)
	EROSION CONTROL SEEDING & MULCH (TEMPORARY)
	SODDING (PERMANENT)
	SEEDING (PERMANENT)
	NATIVE PLANTINGS (PERMANENT)
	RIPRAP (PERMANENT) (SEE PLAN & PROFILE FOR DETAILS)
	PERIMETER EROSION BARRIER (TEMPORARY)
	PERIMETER EROSION BARRIER WITH ORANGE CONSTRUCTION FENCE (TEMPORARY)
	PERIMETER EROSION BARRIER WITH WIRE SUPPORT (TEMPORARY)
	DITCH CHECK (TEMPORARY)
	INLET PROTECTION (TEMPORARY)
	FLOW DIRECTION (SEE CROSS SECTIONS FOR DETAILS)
	PROPOSED STORM SEWER (SEE PLAN & PROFILE FOR DETAILS)

MATCH LINE STATION 340+50 SEE ABOVE

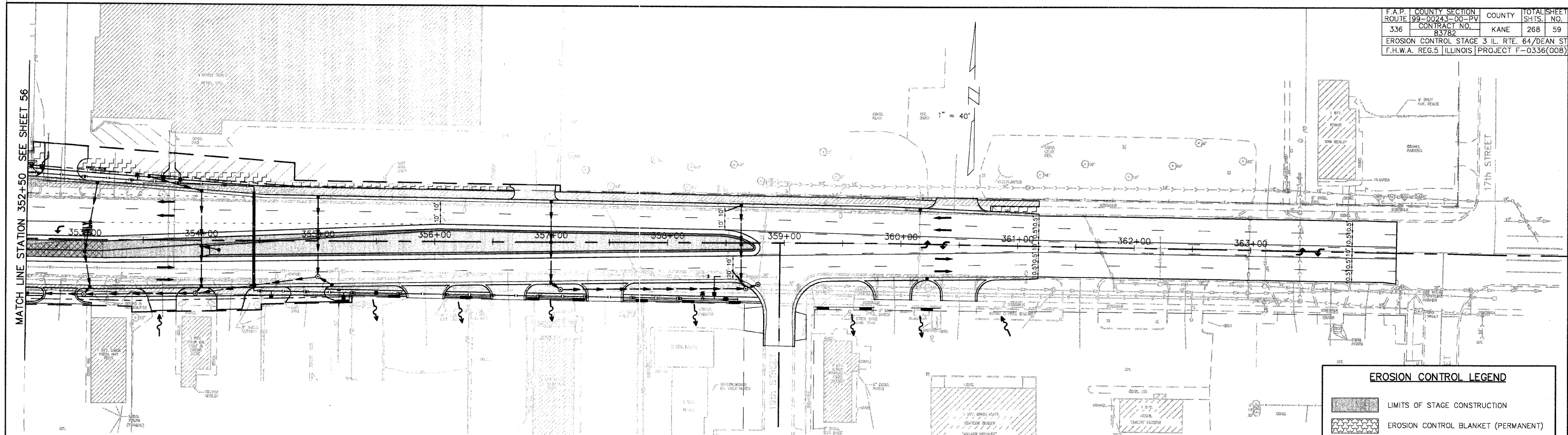


ILLINOIS ROUTE 64
 EROSION CONTROL STAGE 3

MATCH LINE STATION 340+50 SEE BELOW

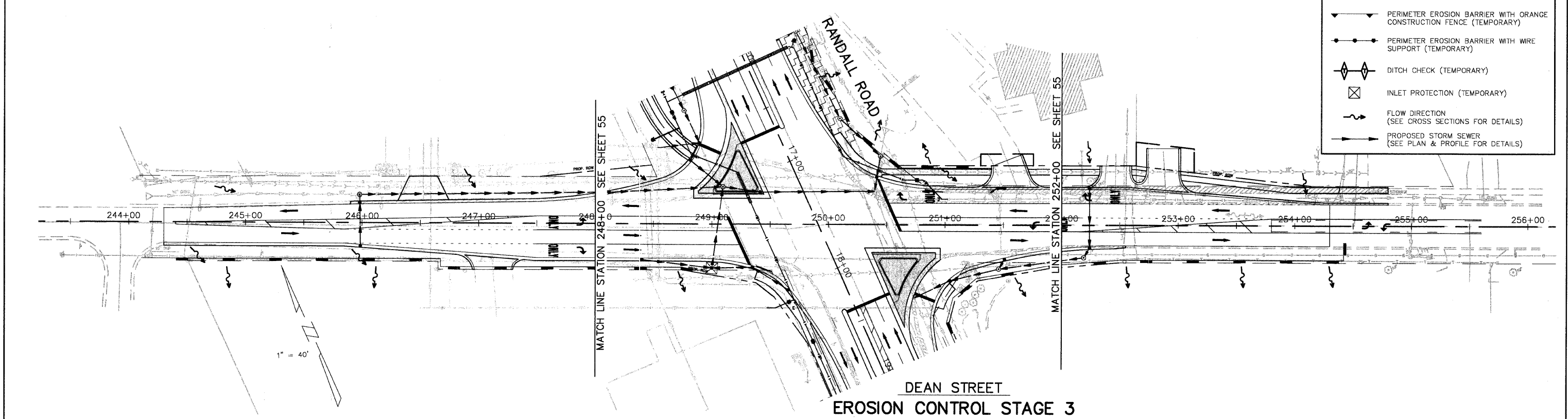
MATCH LINE STATION 352+50 SEE SHEET 59

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET SHTS.	NO.
336	99-00243-00-PV	KANE	268	59
CONTRACT NO. 83782				
EROSION CONTROL STAGE 3 IL. RTE. 64/DEAN ST				
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)				



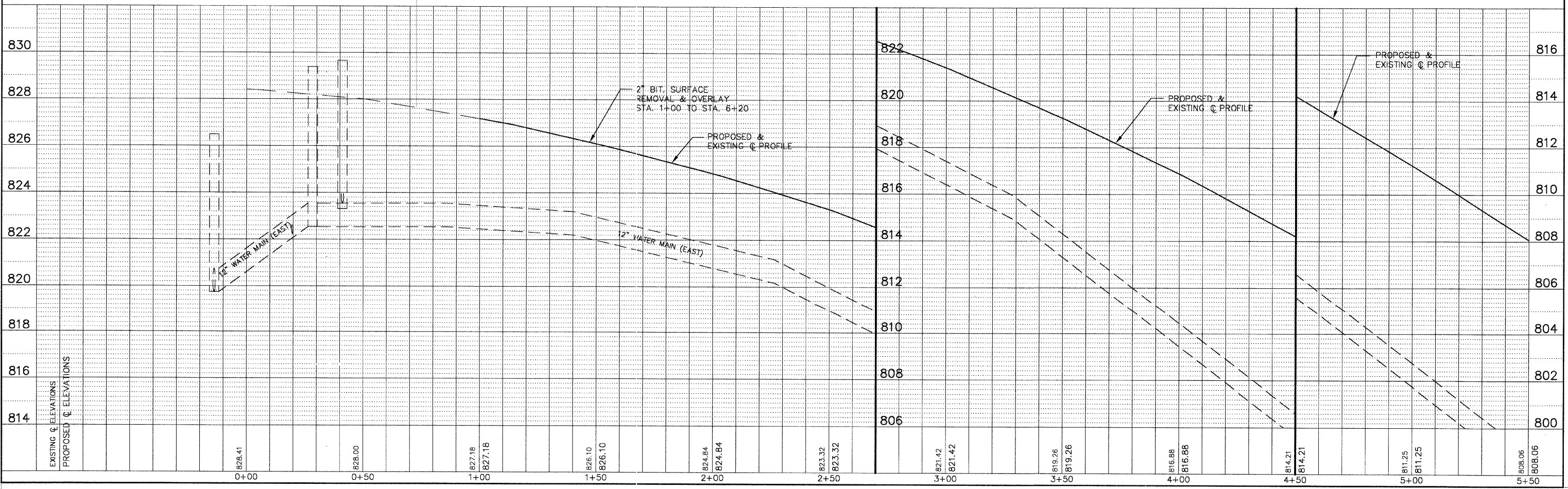
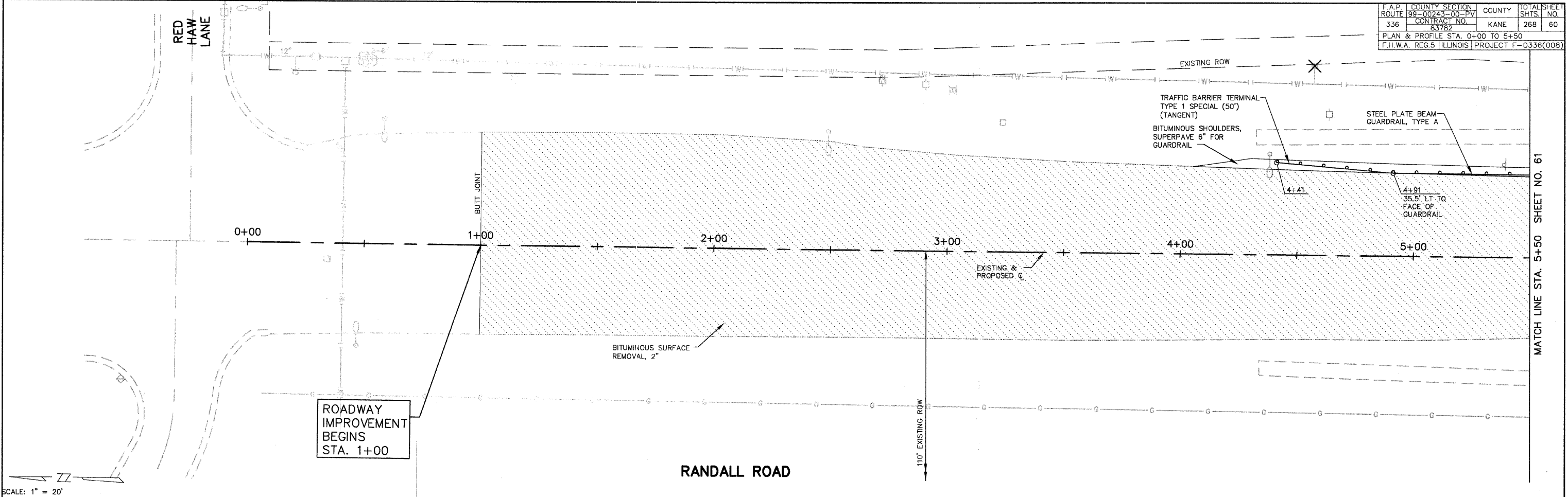
ILLINOIS ROUTE 64
 EROSION CONTROL STAGE 3

EROSION CONTROL LEGEND	
	LIMITS OF STAGE CONSTRUCTION
	EROSION CONTROL BLANKET (PERMANENT)
	EROSION CONTROL SEEDING & MULCH (TEMPORARY)
	SODDING (PERMANENT)
	SEEDING (PERMANENT)
	NATIVE PLANTINGS (PERMANENT)
	RIPRAP (PERMANENT) (SEE PLAN & PROFILE FOR DETAILS)
	PERIMETER EROSION BARRIER (TEMPORARY)
	PERIMETER EROSION BARRIER WITH ORANGE CONSTRUCTION FENCE (TEMPORARY)
	PERIMETER EROSION BARRIER WITH WIRE SUPPORT (TEMPORARY)
	DITCH CHECK (TEMPORARY)
	INLET PROTECTION (TEMPORARY)
	FLOW DIRECTION (SEE CROSS SECTIONS FOR DETAILS)
	PROPOSED STORM SEWER (SEE PLAN & PROFILE FOR DETAILS)



DEAN STREET
 EROSION CONTROL STAGE 3

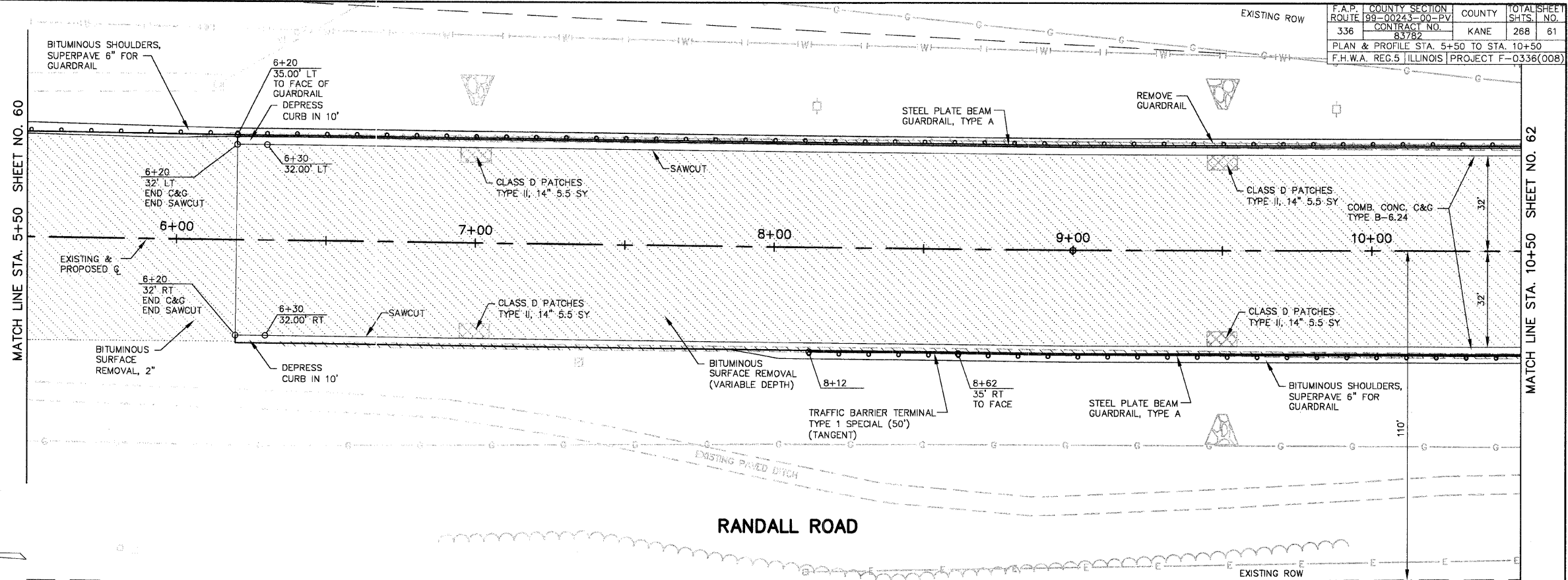
F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
	CONTRACT NO.		SHTS. NO.
	83782		60
PLAN & PROFILE STA. 0+00 TO 5+50			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



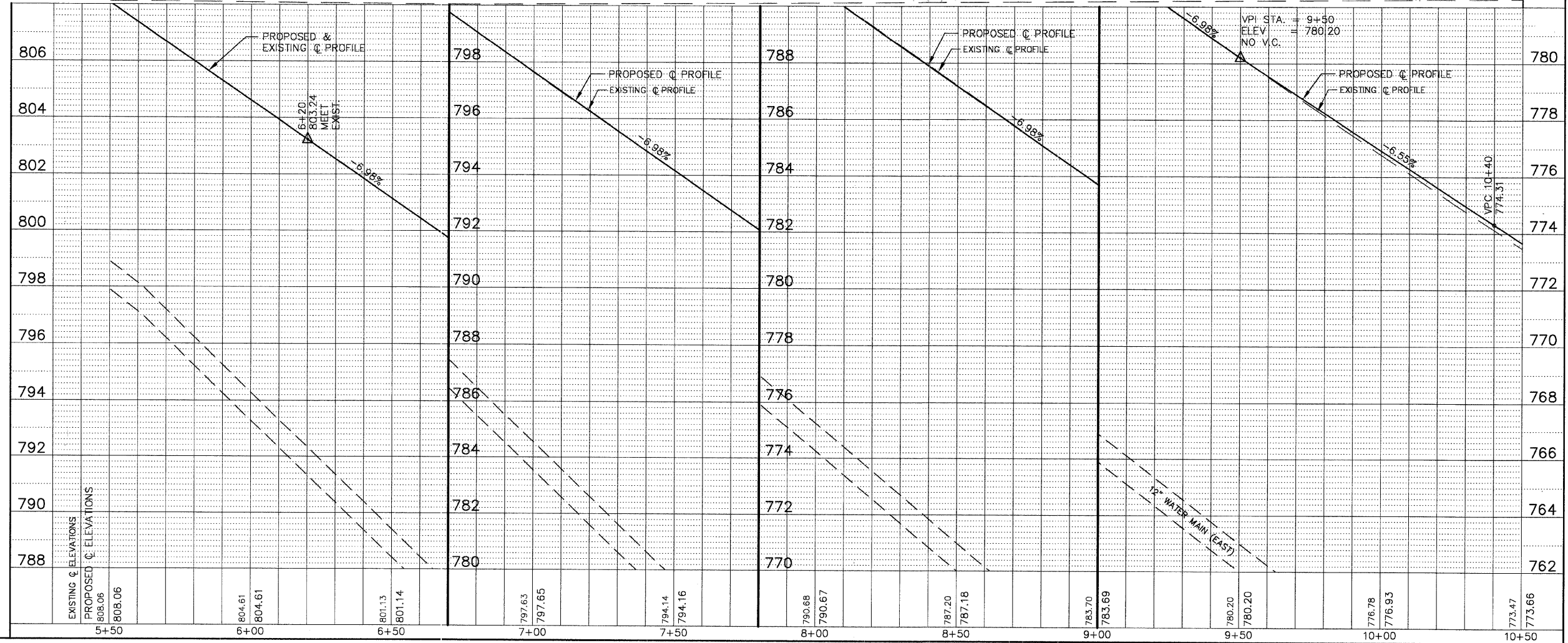
SCALE: 1" = 20'

MATCH LINE STA. 5+50 SHEET NO. 61

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
CONTRACT NO.	SHTS. NO.		
83782	61		
PLAN & PROFILE STA. 5+50 TO STA. 10+50			
F.H.W.A. REG. 5 ILLINOIS PROJECT F-0336(008)			



SCALE: 1" = 20'

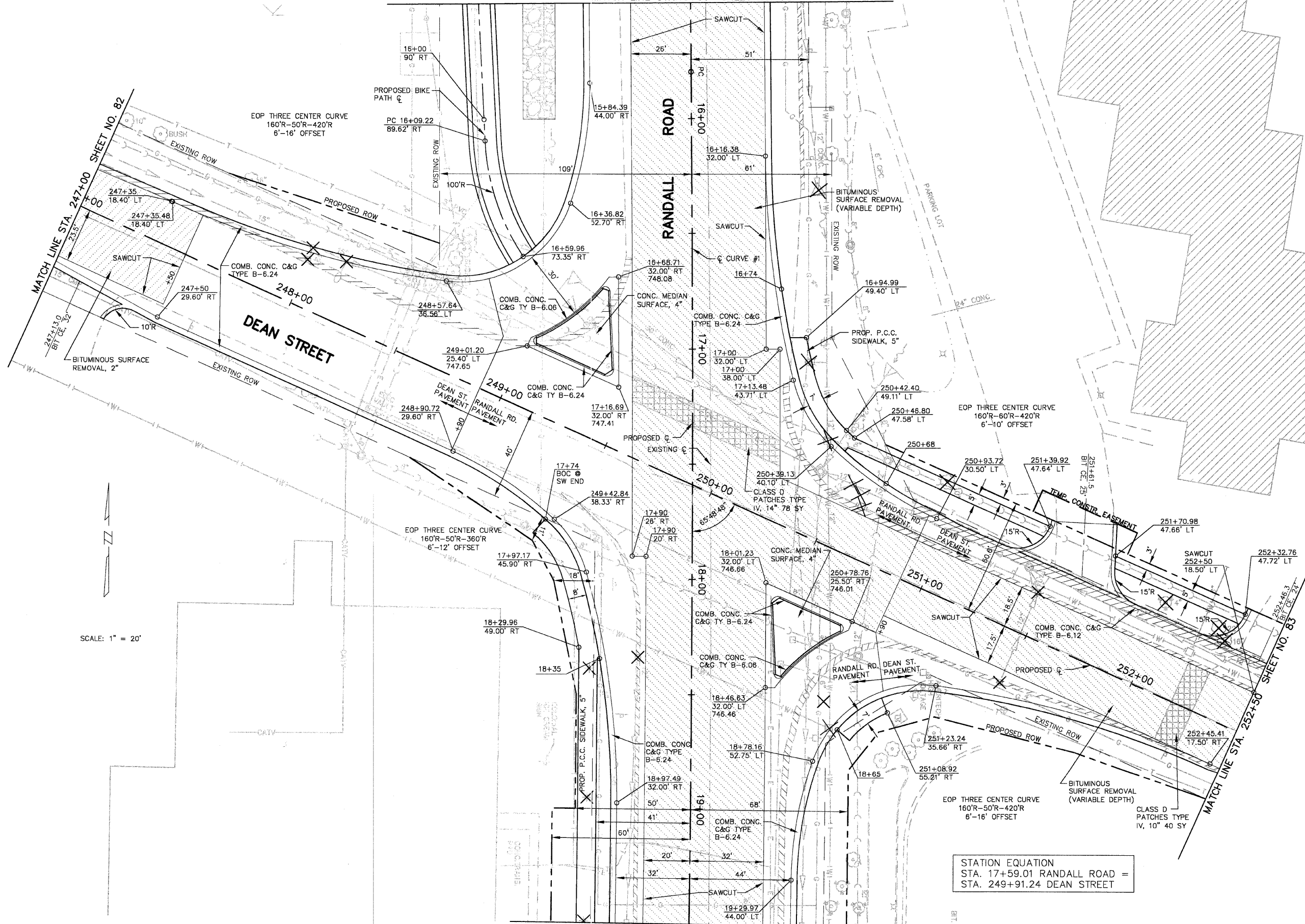


F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEETS
336	99-00243-00-PV	KANE	268
CONTRACT NO.	SHTS. NO.		
83782	63		
PLAN STA. 15+50 TO STA. 19+50			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			

MATCH LINE STA.15+50 SHEET NO. 62

**RANDALL ROAD
 C CURVE #1**

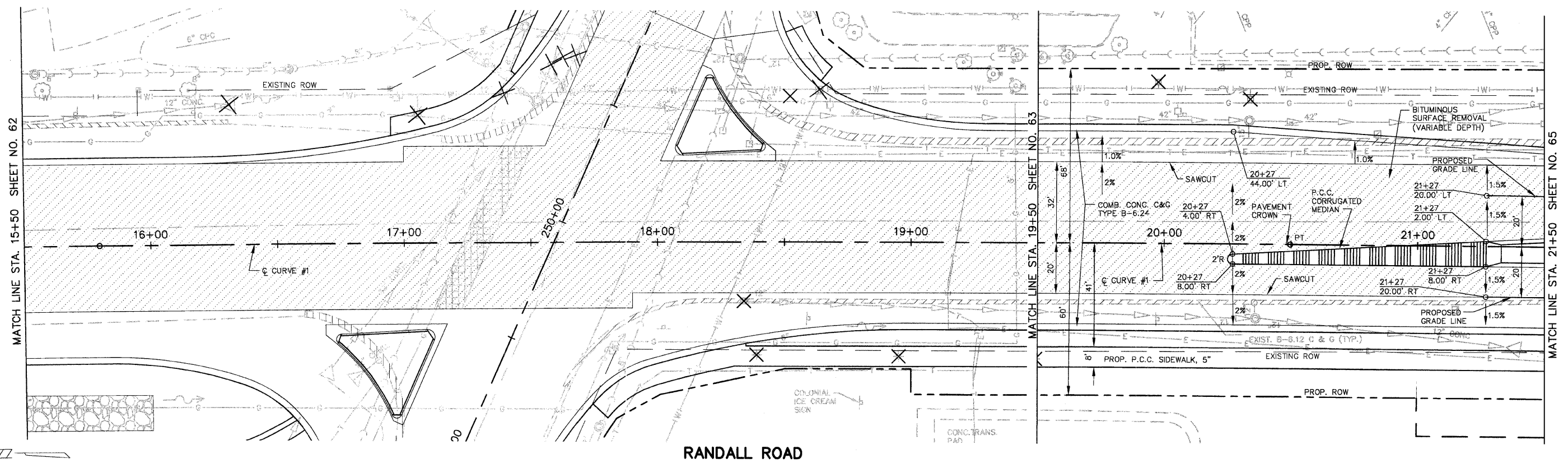
INCLUDED ANGLE = 01°-32'-13"
 RADIUS = 17520.00'
 TANGENT LENGTH = 234.98'
 ARC LENGTH = 469.93'
 CHORD LENGTH = 469.92'
 EXTERNAL SECANT = 1.58'
 MID ORDINATE = 1.58'
 DEGREE OF CURVE = 00°-19'-37"
 PC STA. = 15+79.77
 PT STA. = 20+49.70



SCALE: 1" = 20'

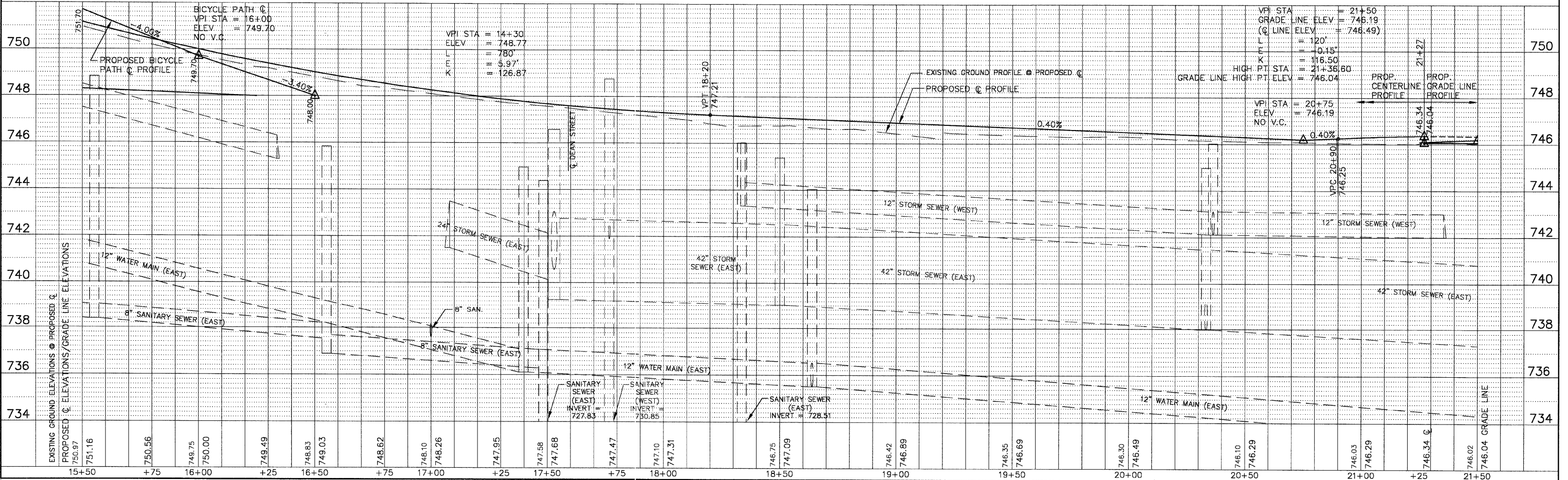
STATION EQUATION
 STA. 17+59.01 RANDALL ROAD =
 STA. 249+91.24 DEAN STREET

MATCH LINE STA.19+50 SHEET NO. 64



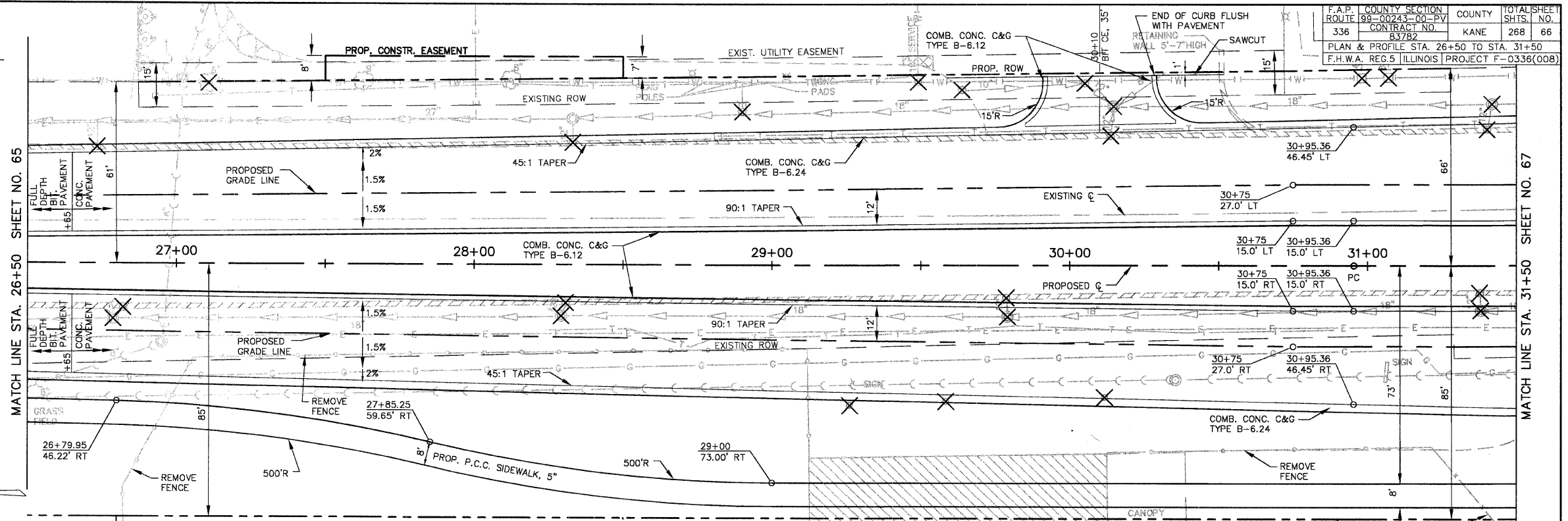
RANDALL ROAD

SCALE: 1" = 20'

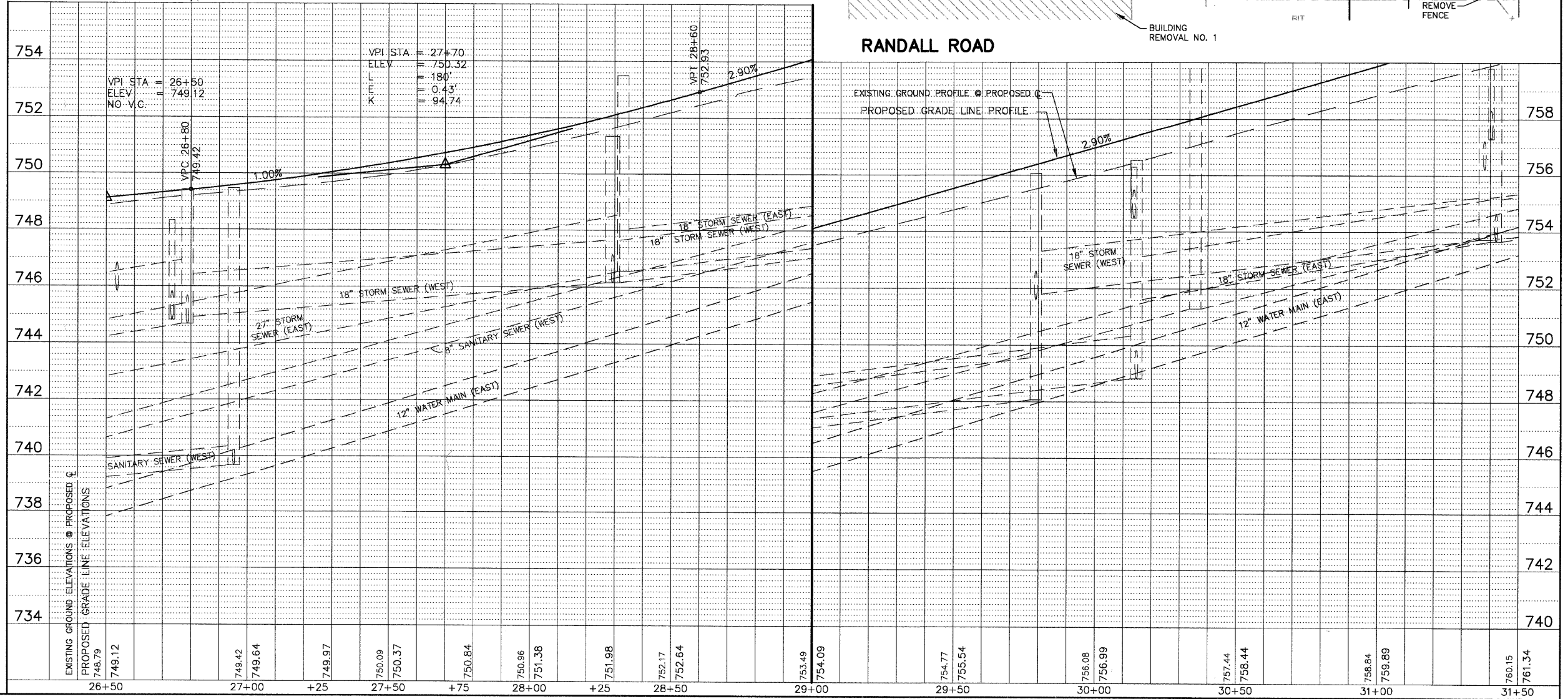


**RANDALL ROAD
 C CURVE #2**

RADIUS = 9950.00'
 ARC LENGTH = 232.66'
 CHORD LENGTH = 116.33'
 TANGENT LENGTH = 116.33'
 DEGREE OF CURVE = 00°-34'-33"
 MID ORDINATE = 0.68'
 EXTERNAL SECANT = 0.68'
 INCLUDED ANGLE = 01°-20'-23"
 PC = 30+95.36
 PT = 33+28.01



SCALE: 1" = 20'



F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
CONTRACT NO.	PROJECT F-0336(00B)		
83782	PLAN & PROFILE STA. 26+50 TO STA. 31+50		
F.H.W.A. REG. 5 ILLINOIS PROJECT F-0336(00B)			

MATCH LINE STA. 26+50 SHEET NO. 65

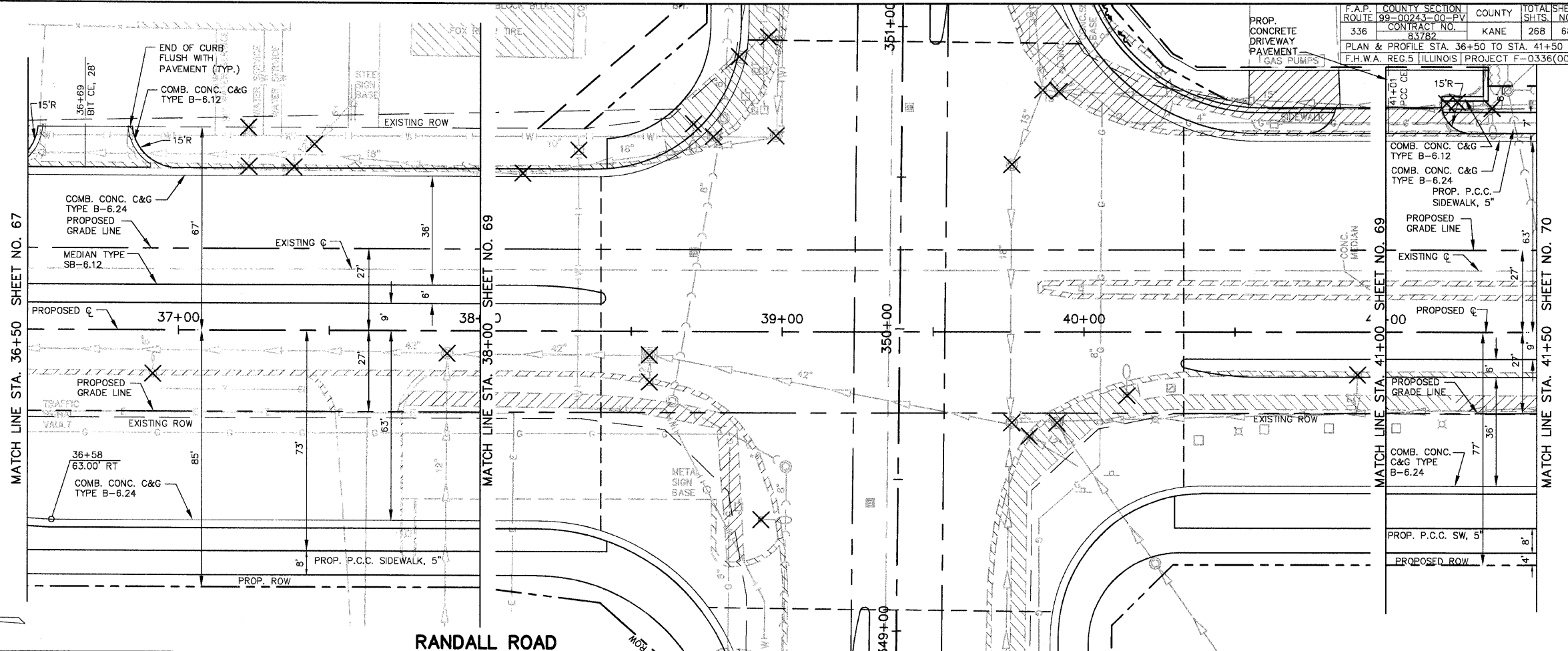
MATCH LINE STA. 31+50 SHEET NO. 67

RANDALL ROAD

EXISTING GROUND PROFILE ● PROPOSED C
 PROPOSED GRADE LINE PROFILE

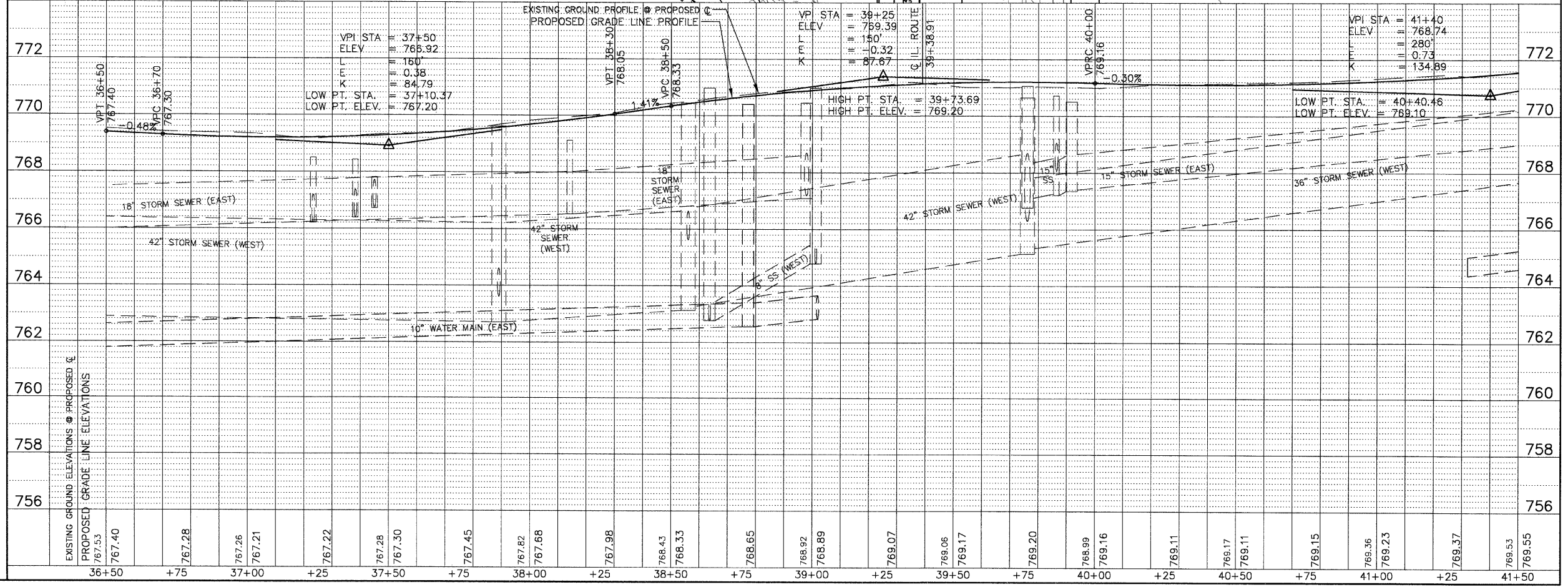
BUILDING REMOVAL NO. 1

F.A.P. ROUTE	99-00243-00-PV	COUNTY SECTION	336	COUNTY	KANE	TOTAL SHEET NO.	268
CONTRACT NO.	83782					SH. NO.	68
PLAN & PROFILE STA. 36+50 TO STA. 41+50							
F.H.W.A. REG. 5 ILLINOIS PROJECT F-0336(008)							

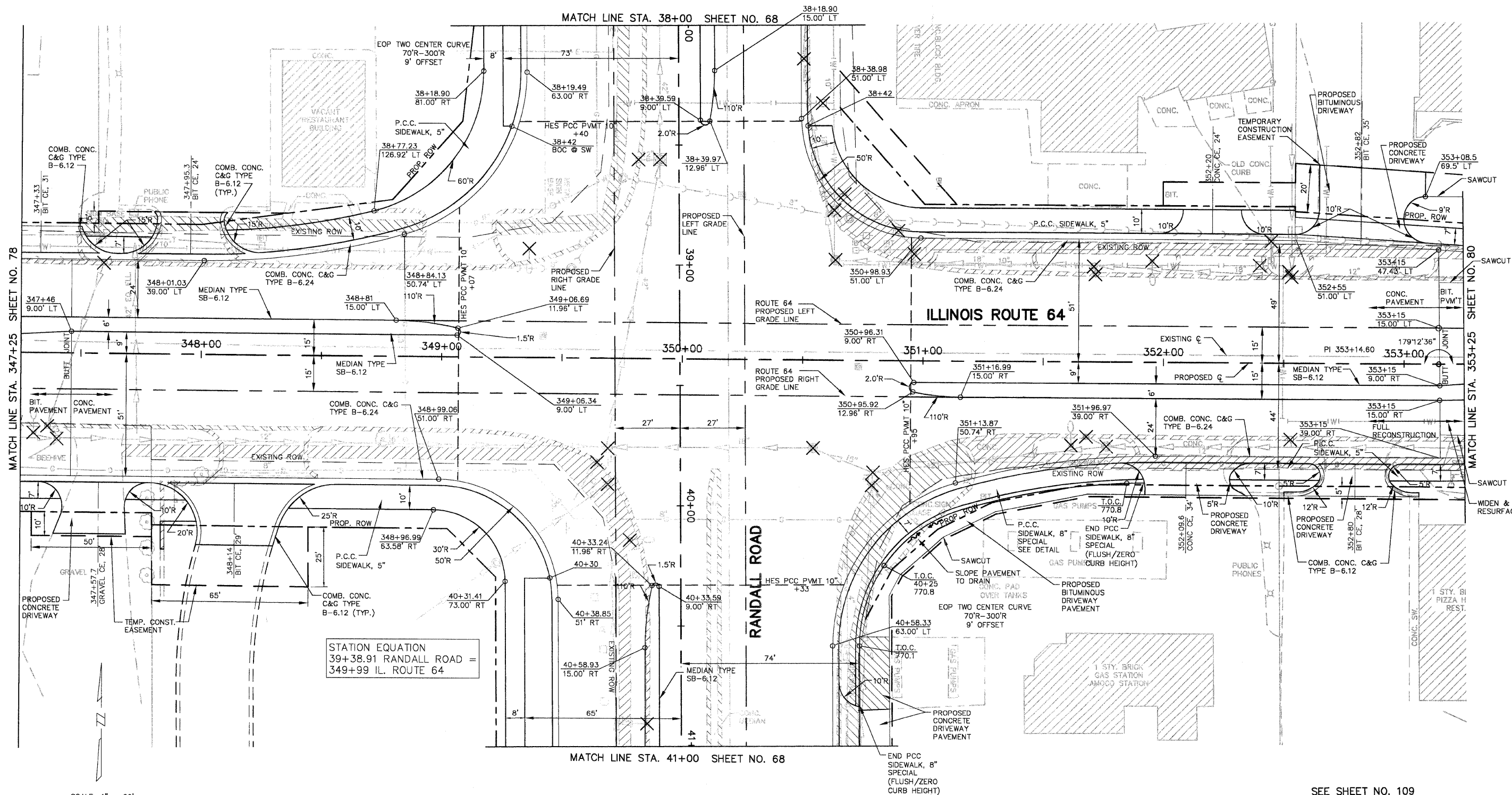


SCALE: 1" = 20'

RANDALL ROAD



F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEETS
336	99-00243-00-PV	KANE	268
CONTRACT NO. 83782			69
PLAN STA. 38+00 TO STA. 41+00			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



STATION EQUATION
 39+38.91 RANDALL ROAD =
 349+99 IL. ROUTE 64

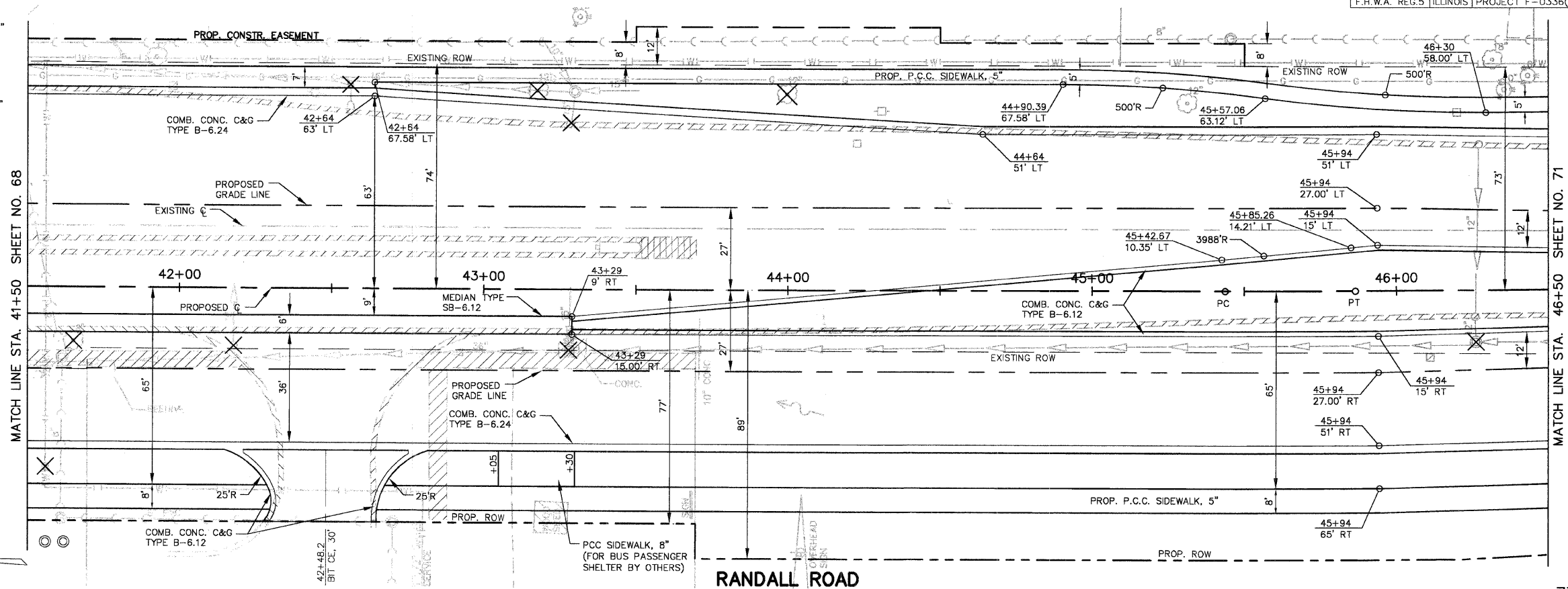
SCALE: 1" = 20'

SEE SHEET NO. 109
 FOR INTERSECTION
 PAVEMENT ELEVATIONS

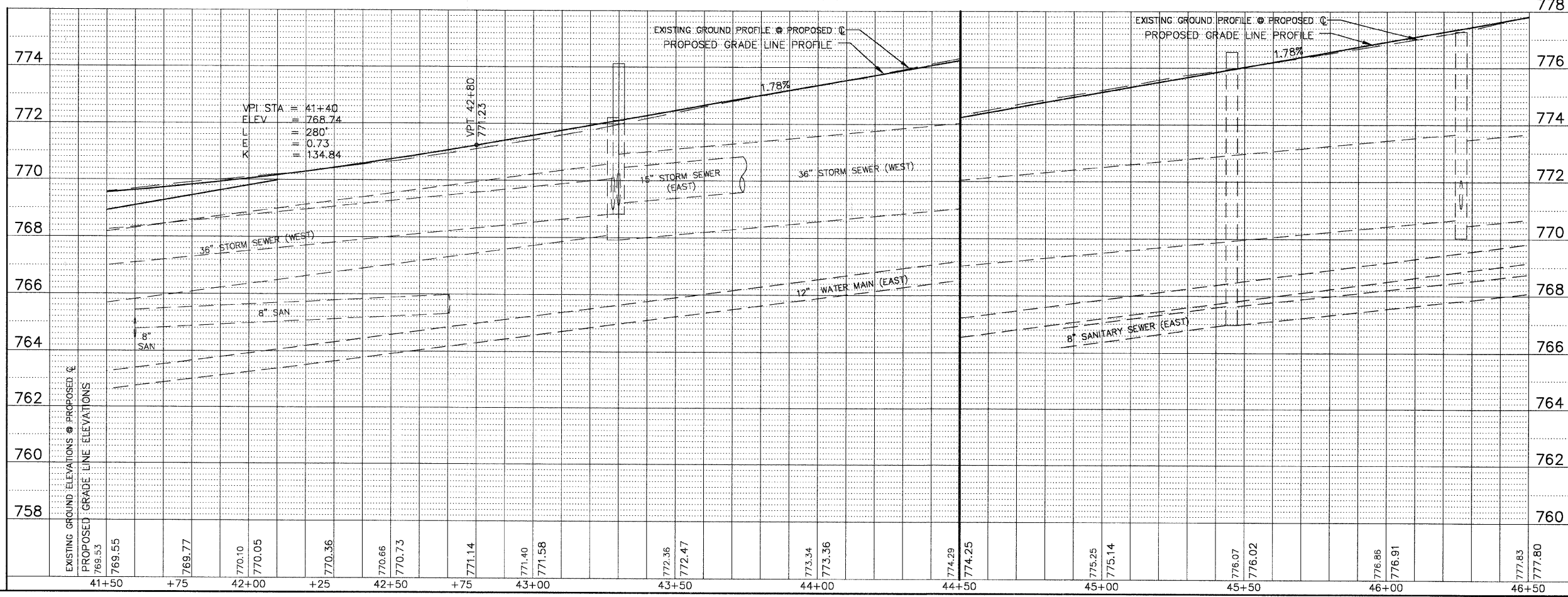
F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEETS
336	99-00243-00-PV	KANE	268
CONTRACT NO. 83782			70
PLAN & PROFILE STA. 41+50 TO STA. 46+50			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			

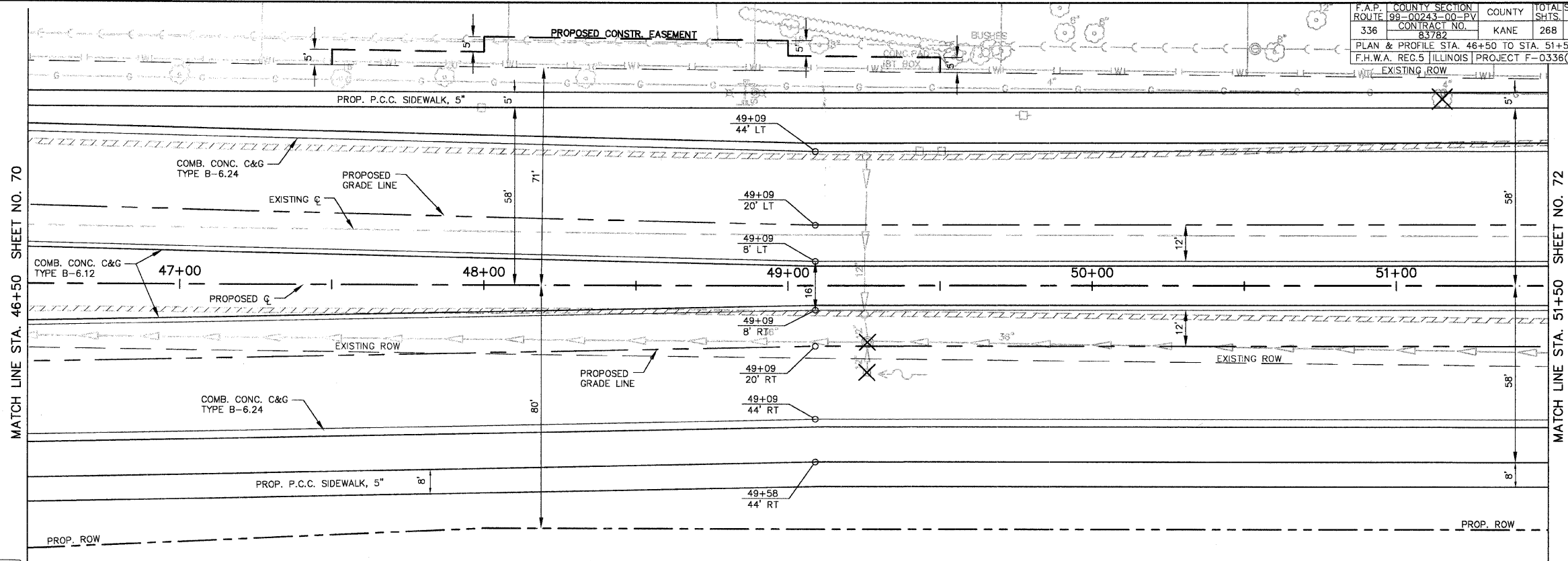
**RANDALL ROAD
 C CURVE #3**

INCLUDED ANGLE = 00°-36'-46"
 RADIUS = 4000.00'
 TANGENT LENGTH = 21.39'
 ARC LENGTH = 42.79'
 CHORD LENGTH = 42.79'
 EXTERNAL SECANT = 0.05'
 MID ORDINATE = 0.06'
 DEGREE OF CURVE = 01°-25'-57"
 PC = 45+43.70
 PT = 45+86.48



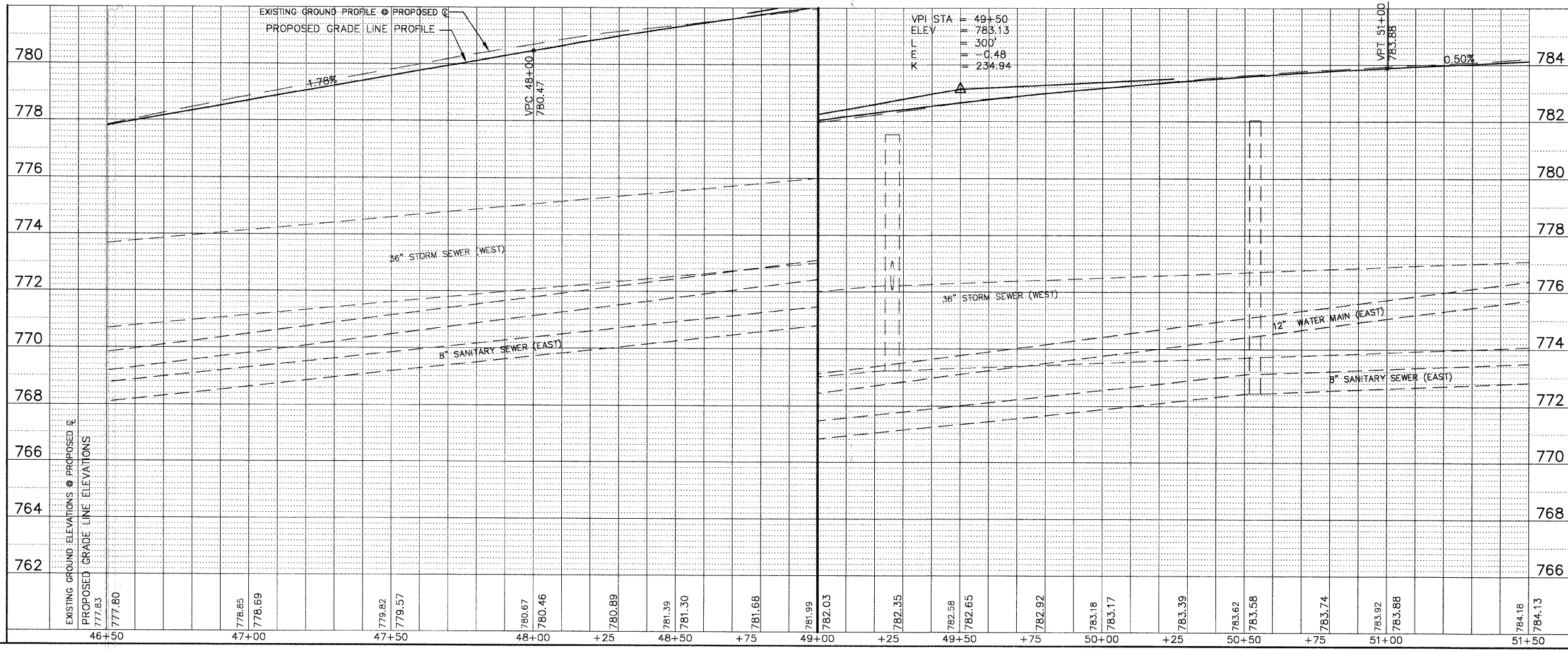
SCALE: 1" = 20'





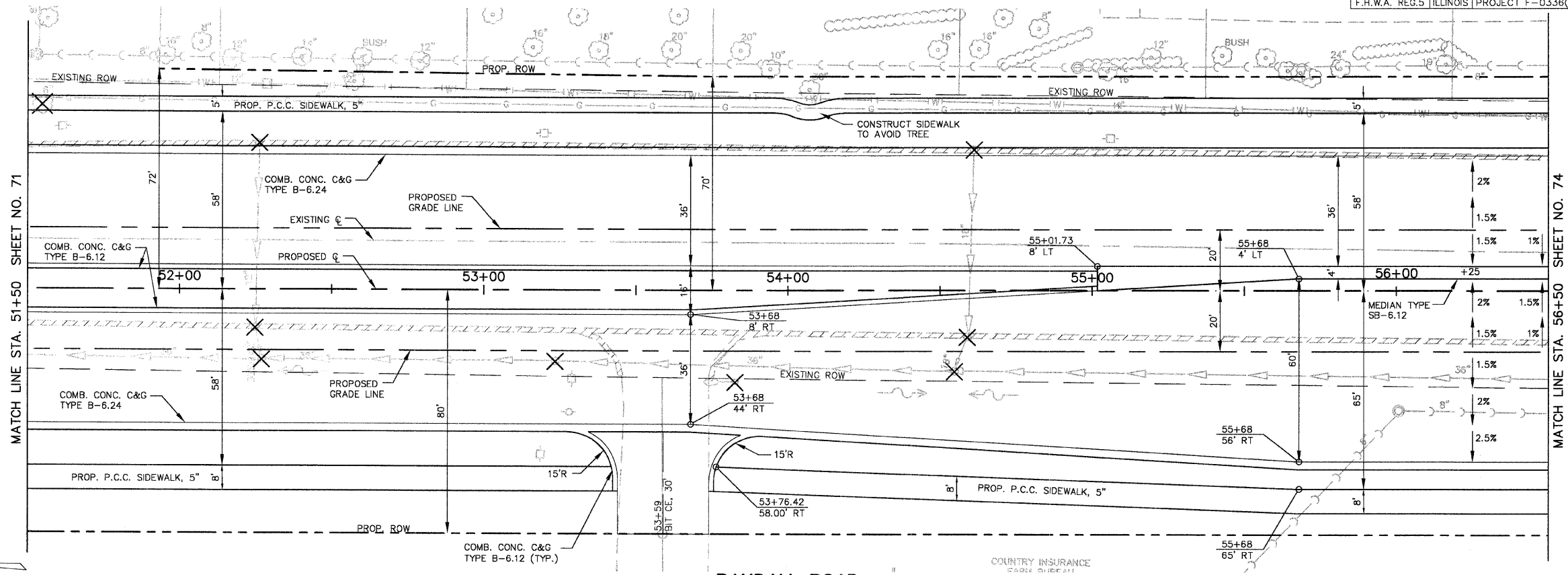
SCALE: 1" = 20'

RANDALL ROAD



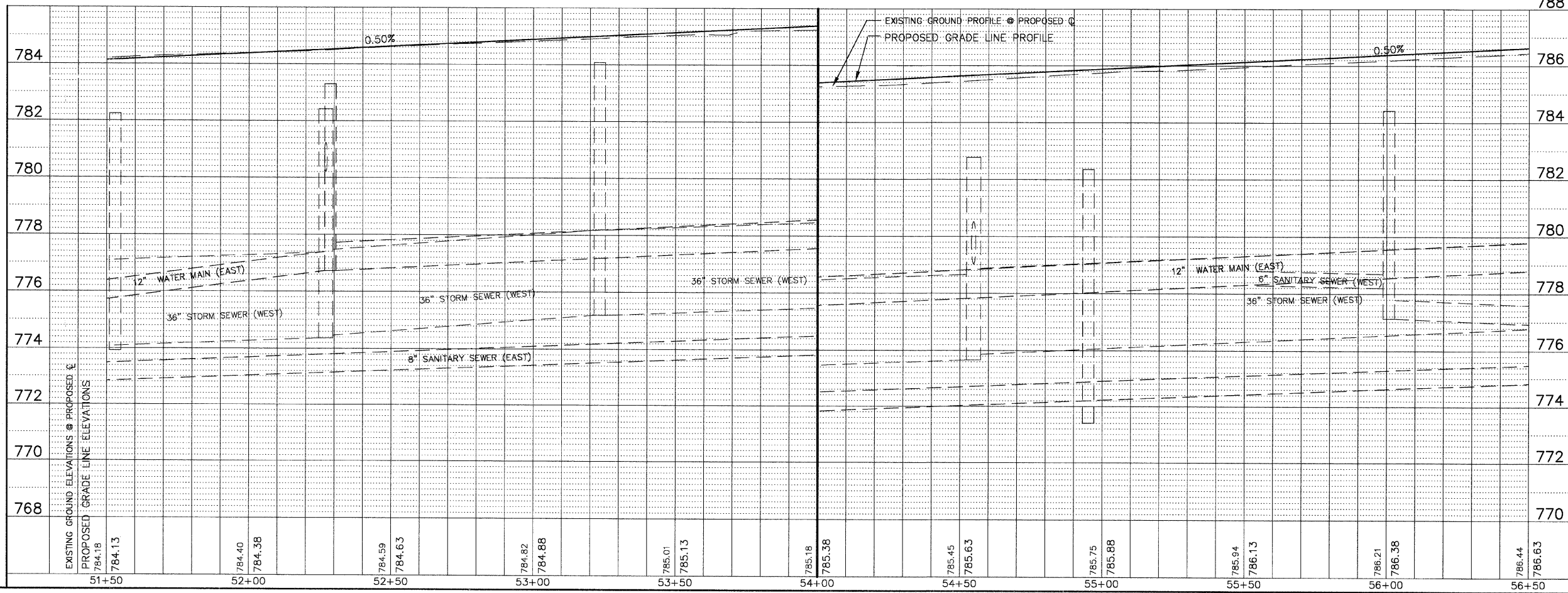
VPI STA = 49+50
 ELEV = 783.13
 L = 300'
 F = 0.48
 K = 234.94

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEETS
336	99-00243-00-PV	KANE	268
CONTRACT NO. 83782			72
PLAN & PROFILE STA. 51+50 TO STA. 56+50			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(00B)			



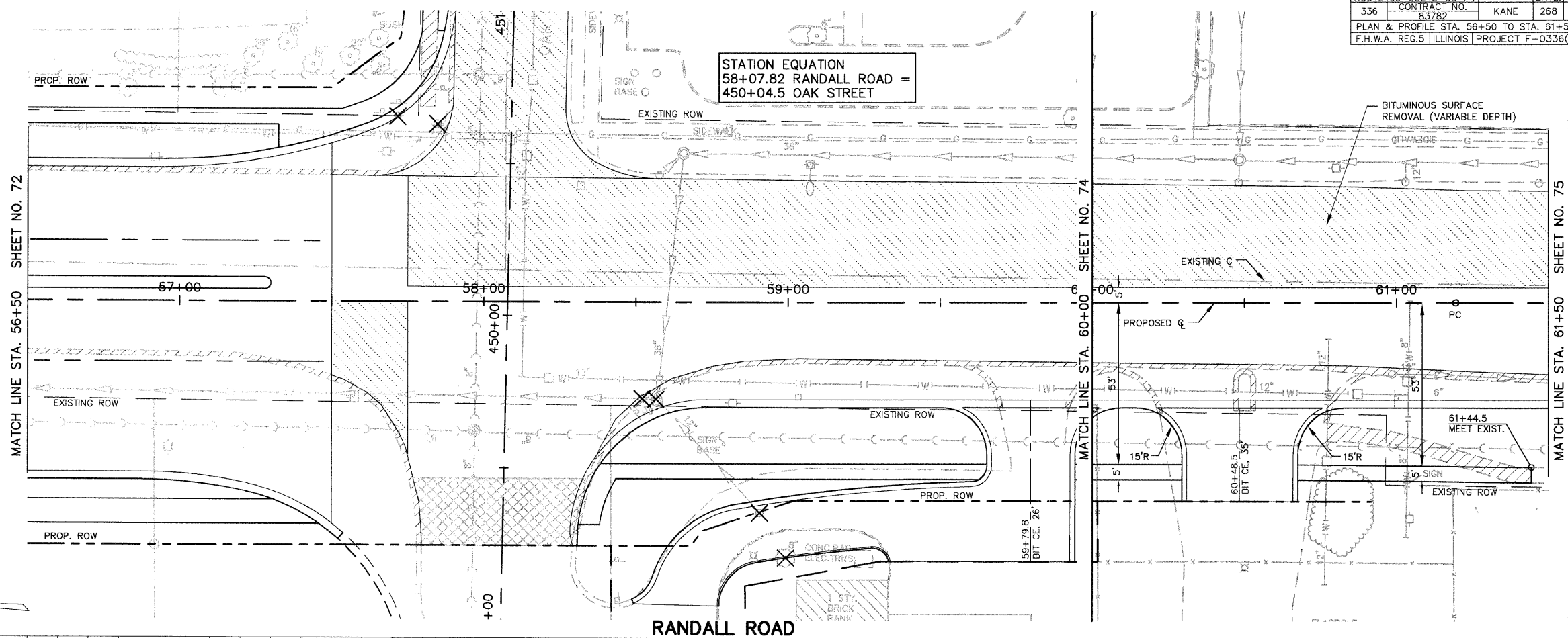
SCALE: 1" = 20'

RANDALL ROAD

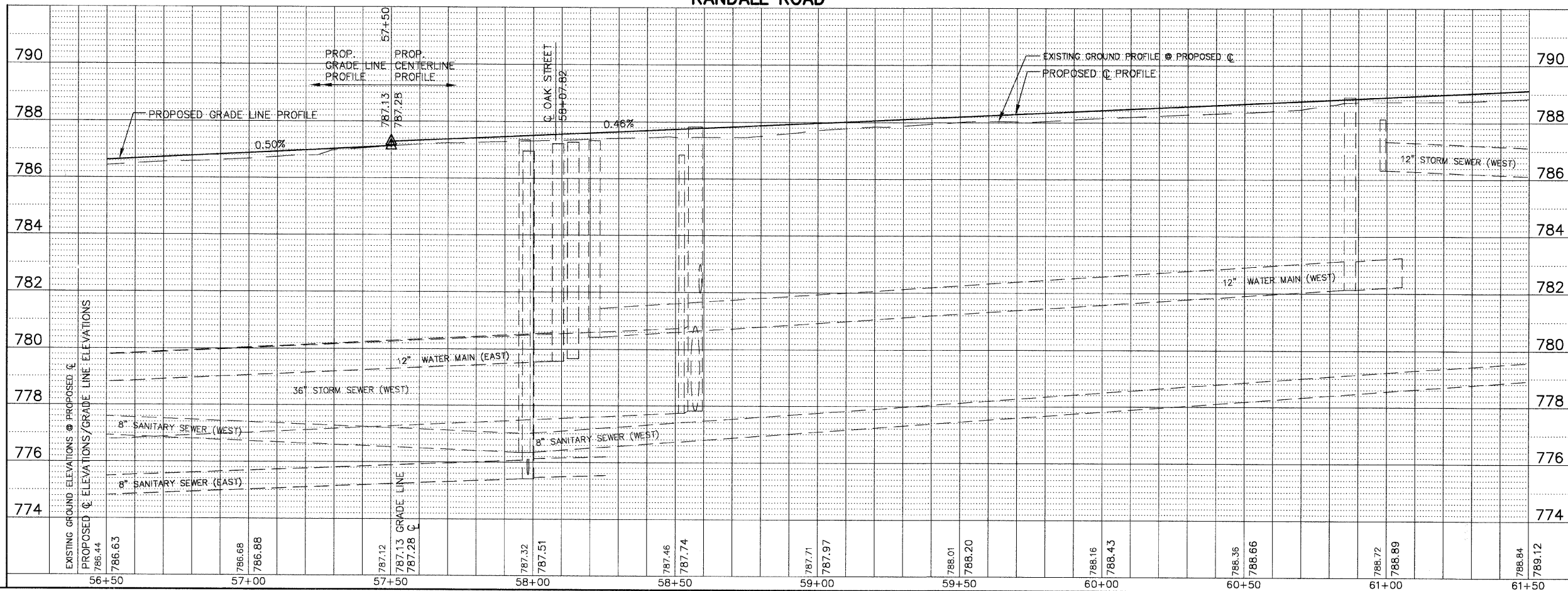


RANDALL ROAD
☉ CURVE #4

RADIUS = 20000.00'
 ARC LENGTH = 579.00'
 CHORD LENGTH = 578.98'
 TANGENT LENGTH = 289.52'
 DEGREE OF CURVE = 00°-17'-11"
 MID ORDINATE = 2.10'
 EXTERNAL SECANT = 2.10'
 INCLUDED ANGLE = 01°-39'-31"
 PC = 61+19.52
 PT = 66+98.52

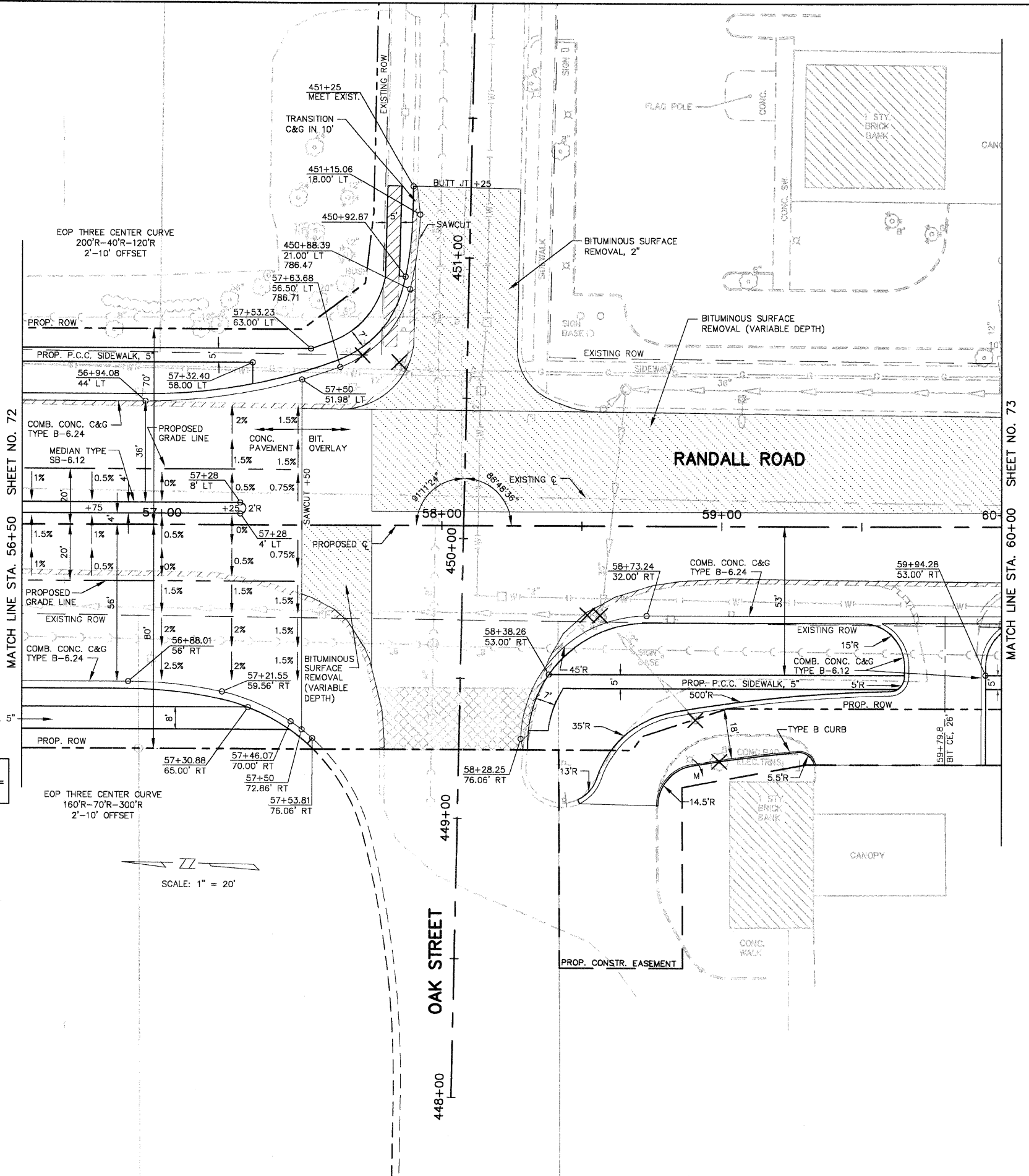


SCALE: 1" = 20'



F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
	CONTRACT NO.		74
	83782		
PLAN STA. 56+50 TO STA. 60+00			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			

STATION EQUATION
 58+07.82 RANDALL ROAD =
 450+04.5 OAK STREET



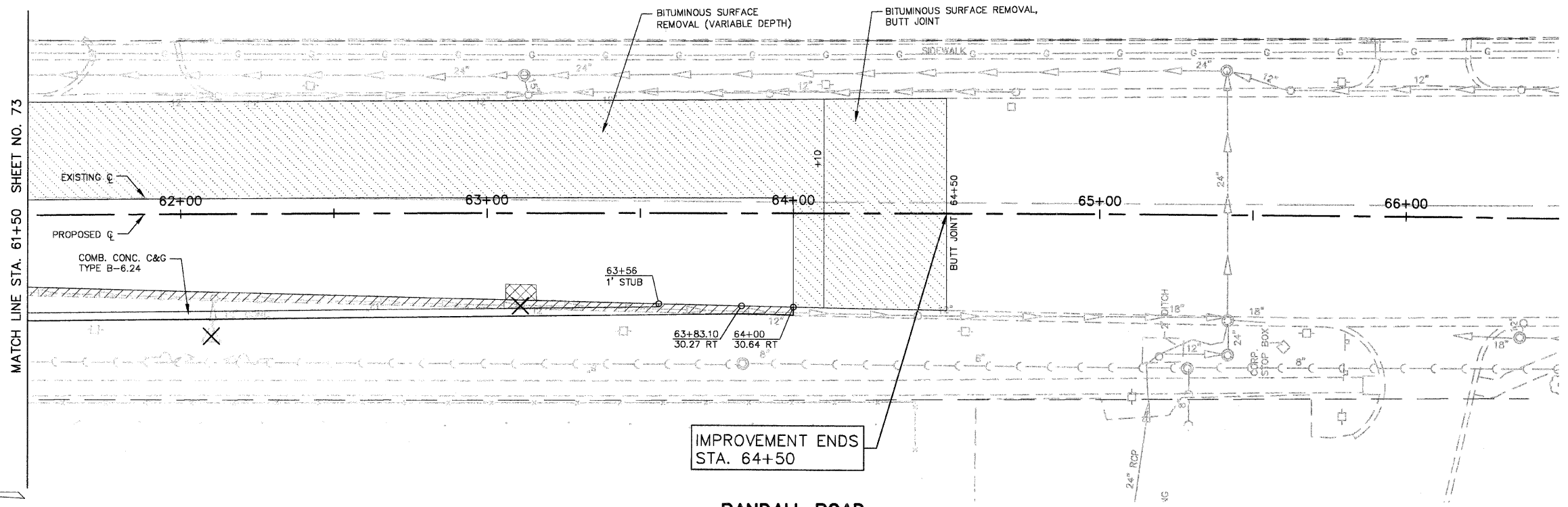
MATCH LINE STA. 56+50 SHEET NO. 72

MATCH LINE STA. 60+00 SHEET NO. 73

SCALE: 1" = 20'

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
	CONTRACT NO.		75
	83782		
PLAN & PROFILE STA. 61+50 TO 66+50			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			

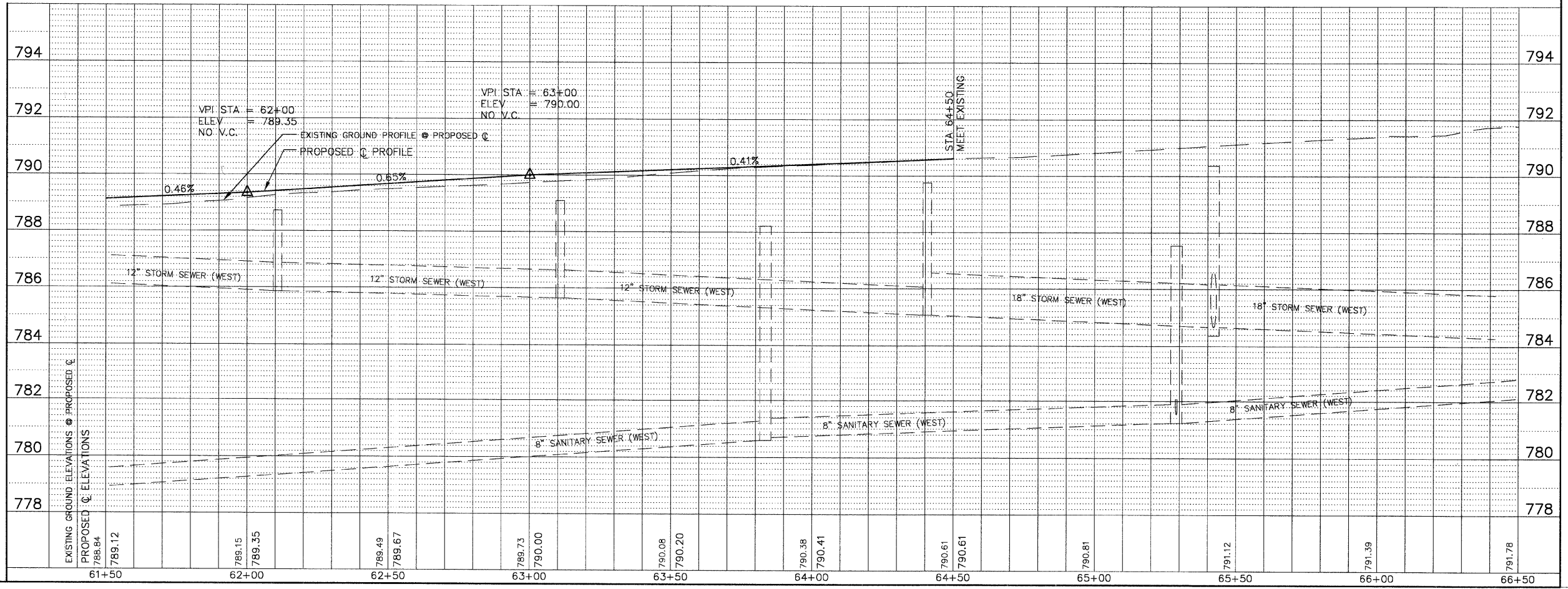
KANE COUNTY CLERK'S OFFICE

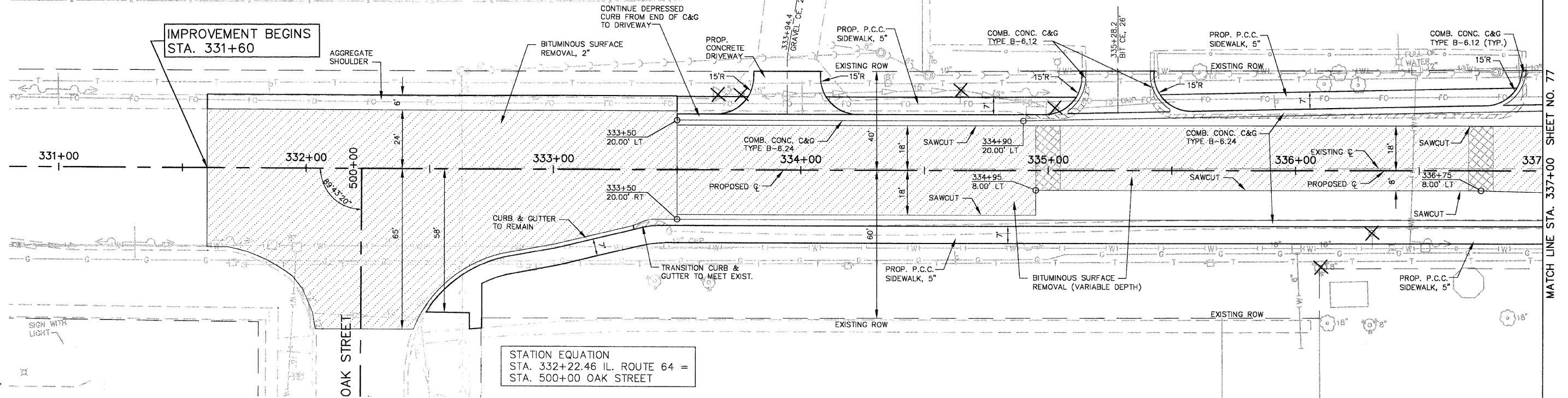


IMPROVEMENT ENDS
 STA. 64+50

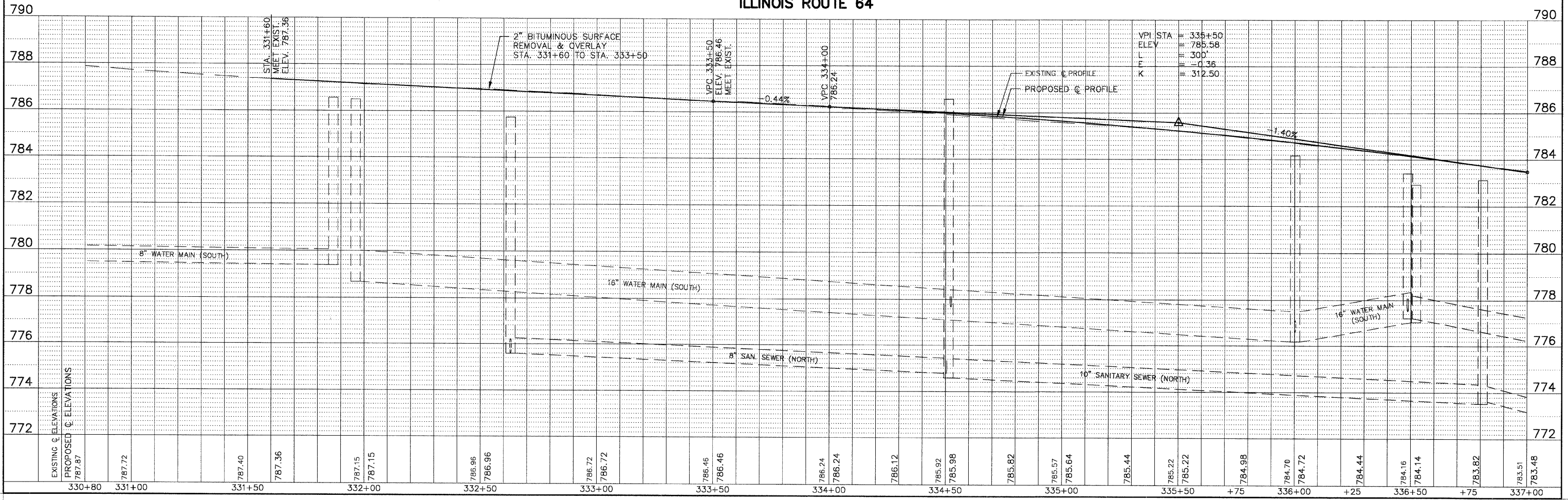
RANDALL ROAD

SCALE: 1" = 20'

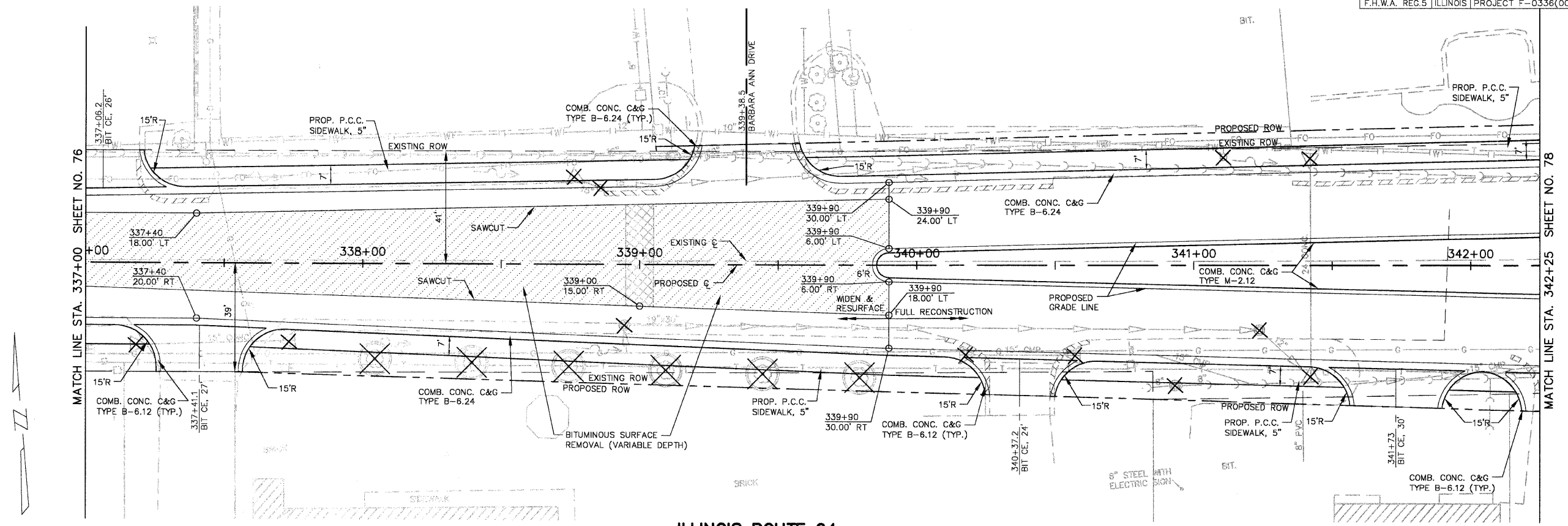




ILLINOIS ROUTE 64

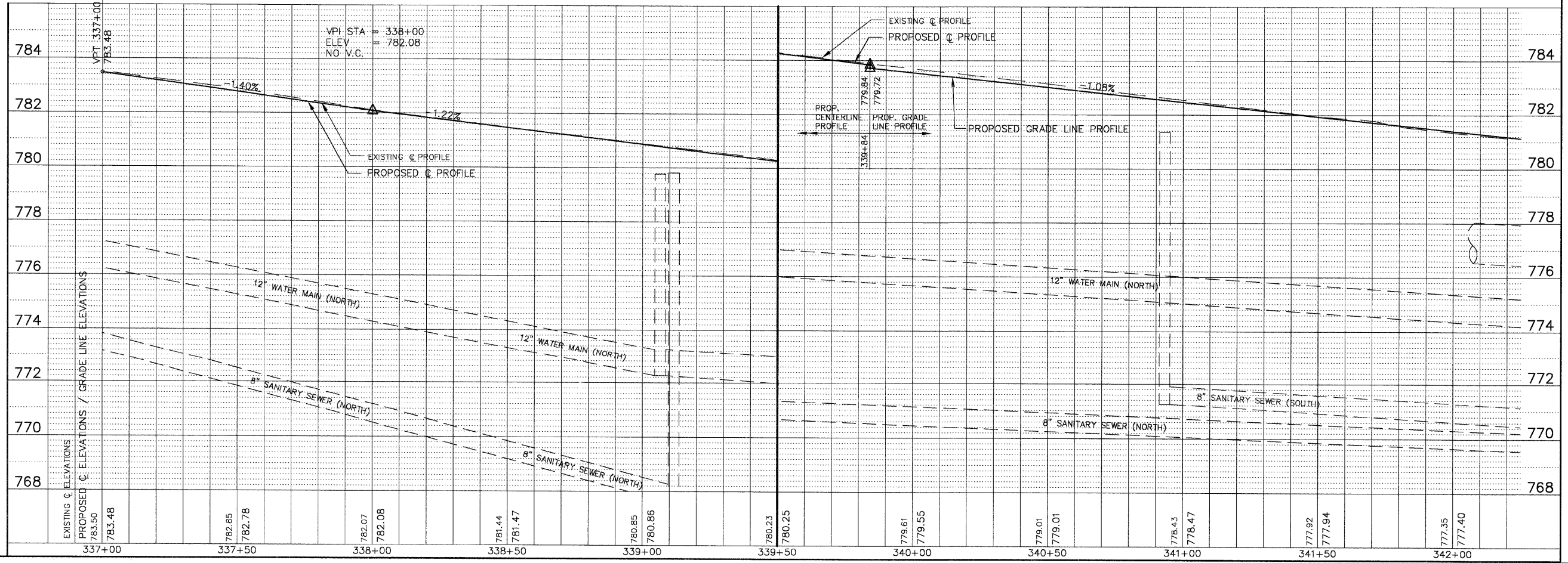


F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
CONTRACT NO.	83782		77
PLAN & PROFILE STA. 353+50 TO STA. 341+50			
F.H.W.A. REC.5 ILLINOIS PROJECT F-0336(008)			

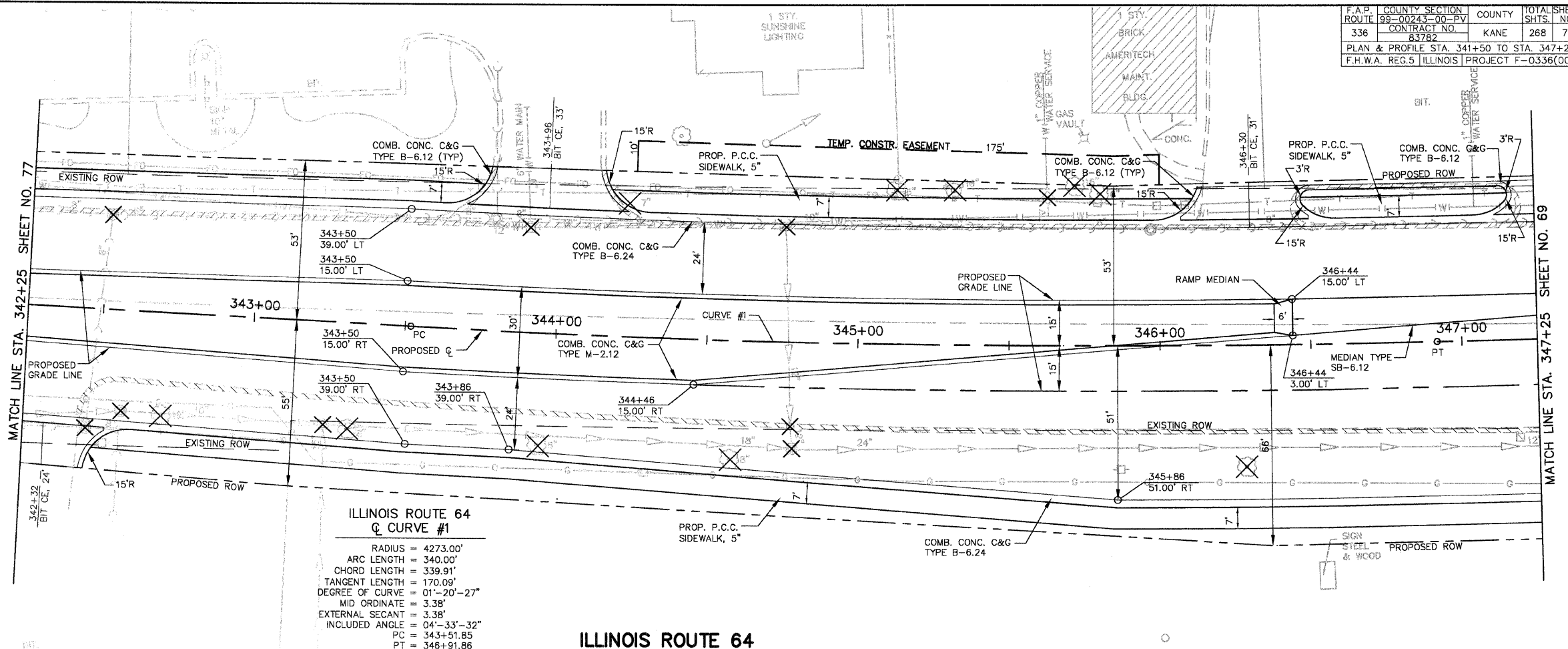


ILLINOIS ROUTE 64

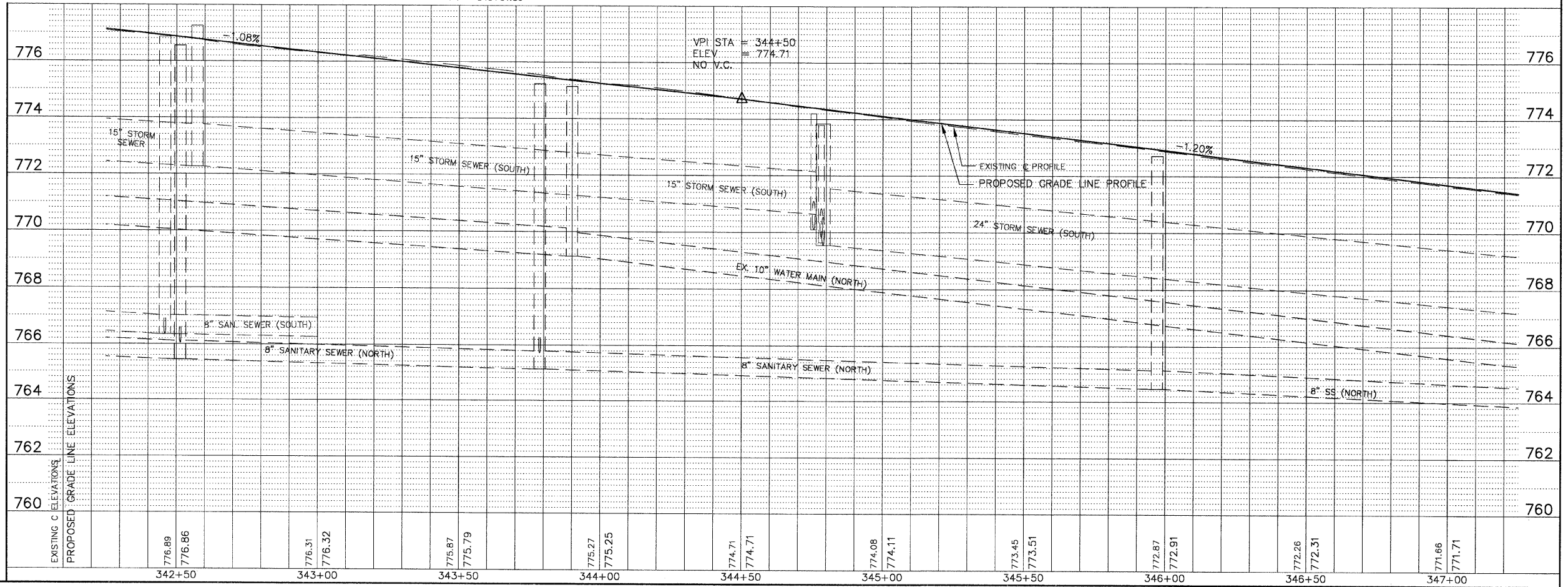
SCALE: 1" = 20'

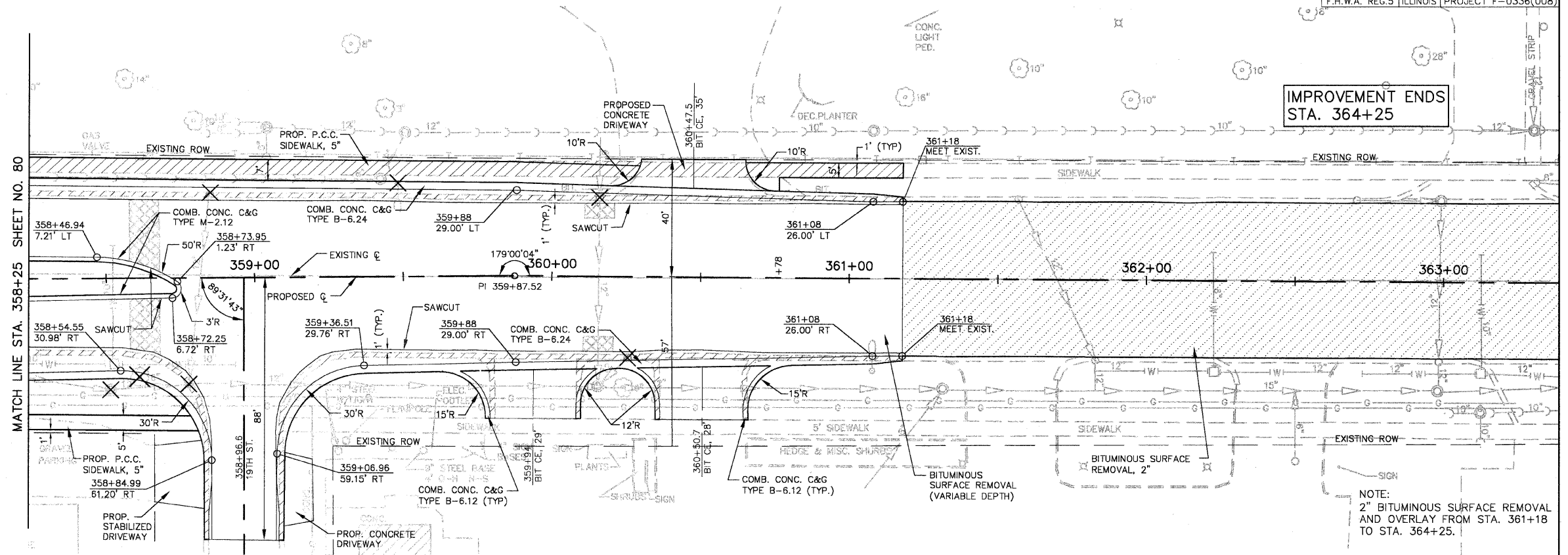


F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
	CONTRACT NO.		78
PLAN & PROFILE STA. 341+50 TO STA. 347+25			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



SCALE: 1" = 20'



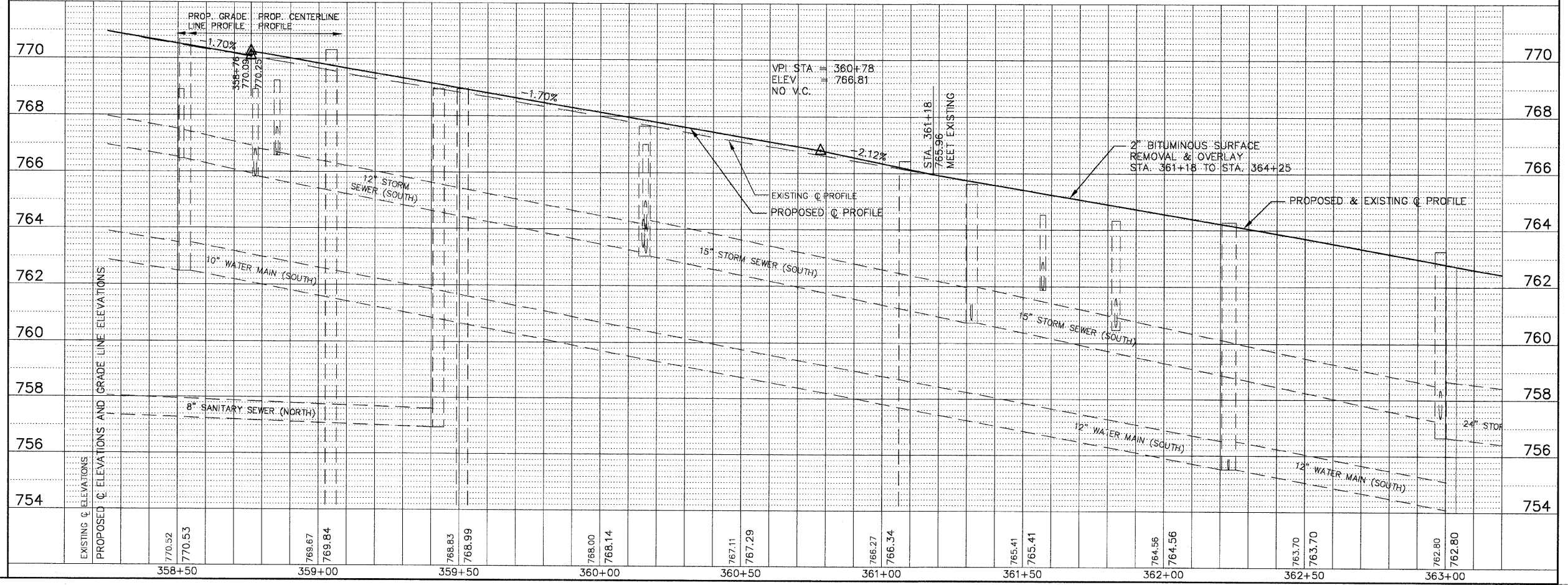


IMPROVEMENT ENDS
 STA. 364+25

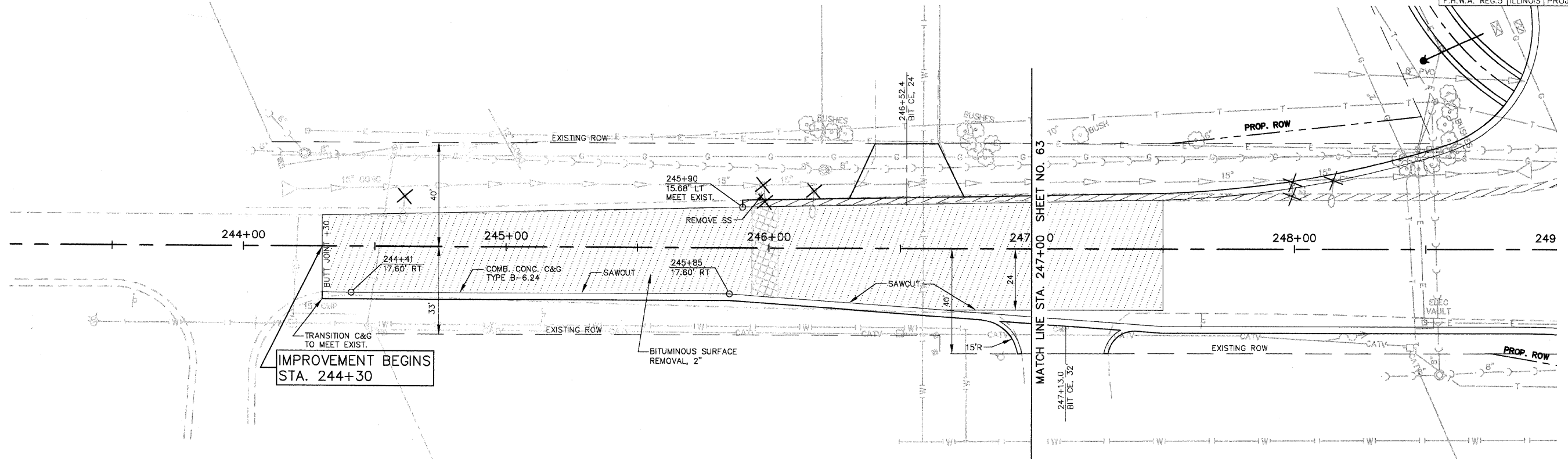
NOTE:
 2" BITUMINOUS SURFACE REMOVAL AND OVERLAY FROM STA. 361+18 TO STA. 364+25.

SCALE: 1" = 20'

ILLINOIS ROUTE 64

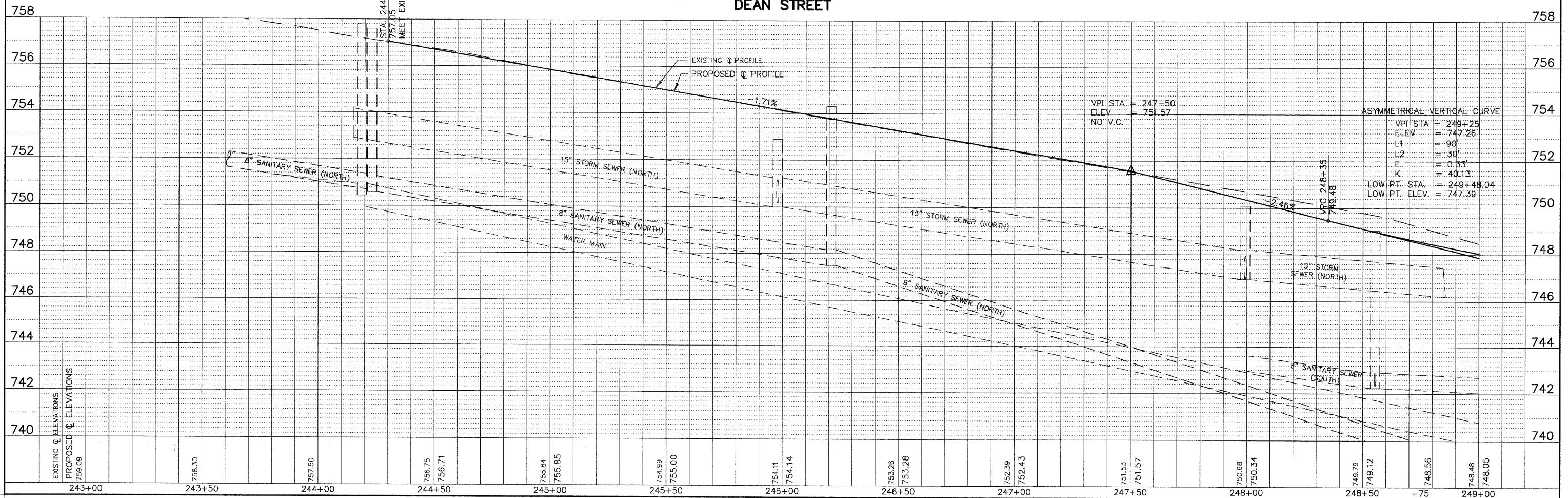


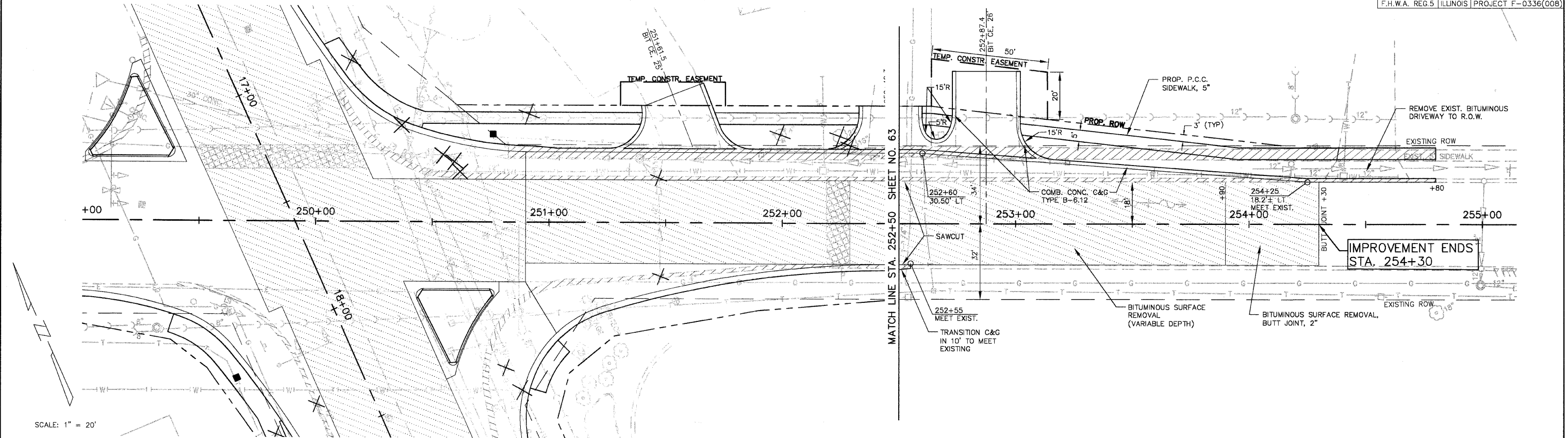
STATION	EXISTING C ELEVATIONS	PROPOSED C ELEVATIONS AND GRADE LINE ELEVATIONS
358+50	770.92	770.53
359+00	769.67	769.84
359+50	768.83	768.99
360+00	768.00	768.14
360+50	767.11	767.29
361+00	766.27	766.34
361+50	765.41	765.41
362+00	764.56	764.56
362+50	763.70	763.70
363+00	762.80	762.80



SCALE: 1" = 20'

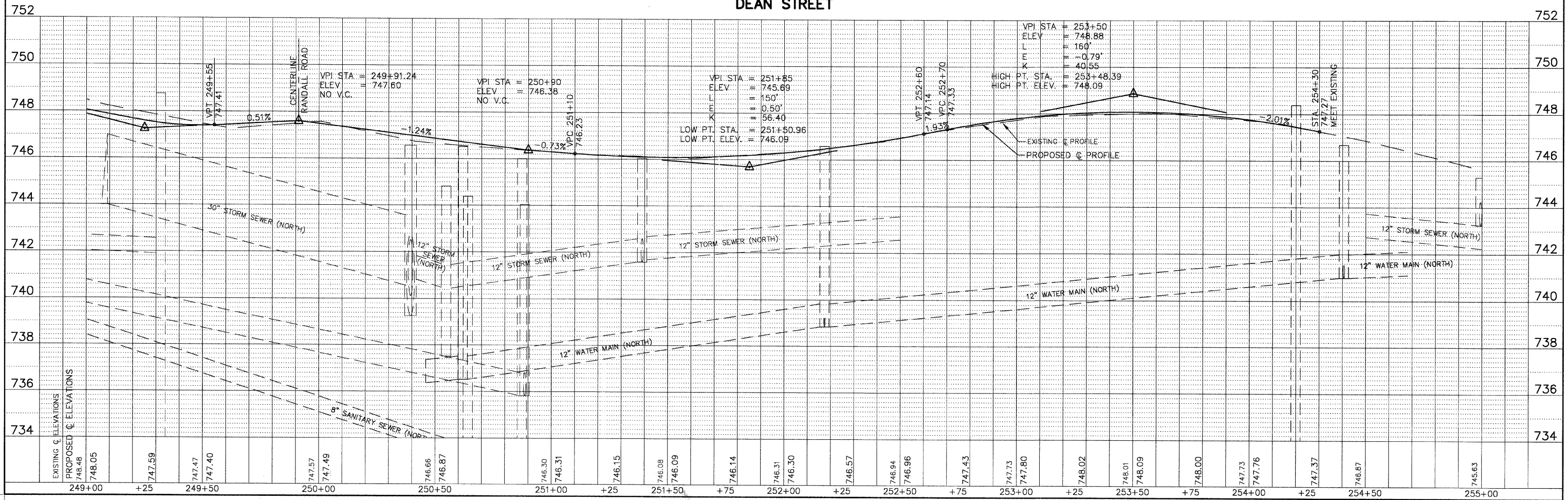
DEAN STREET

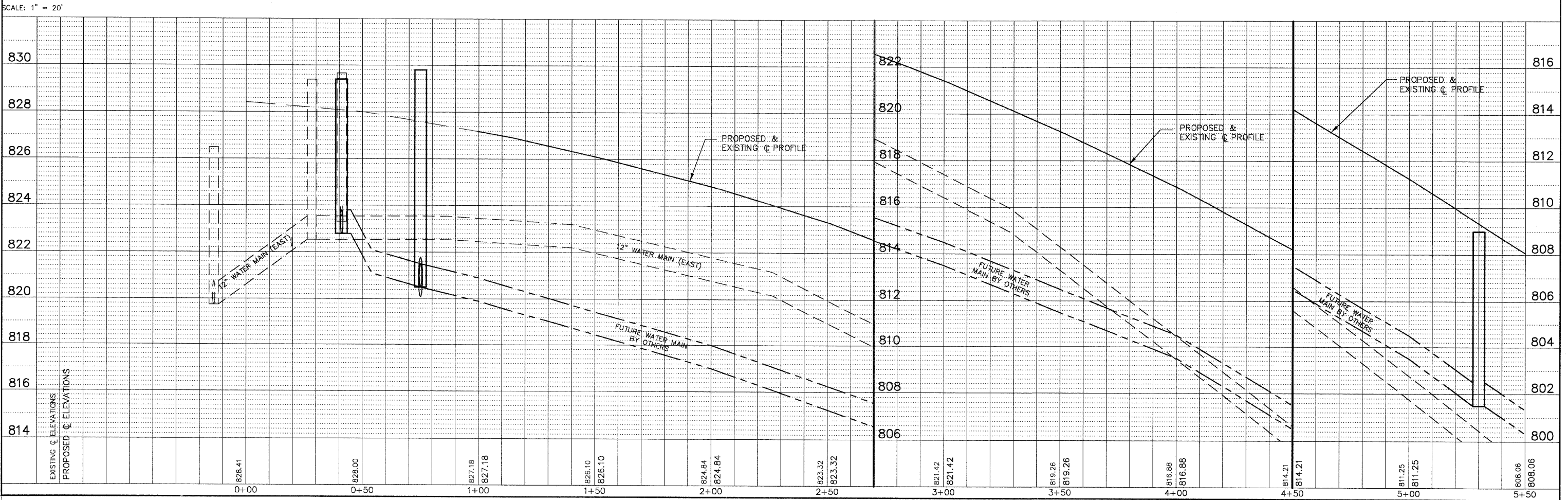
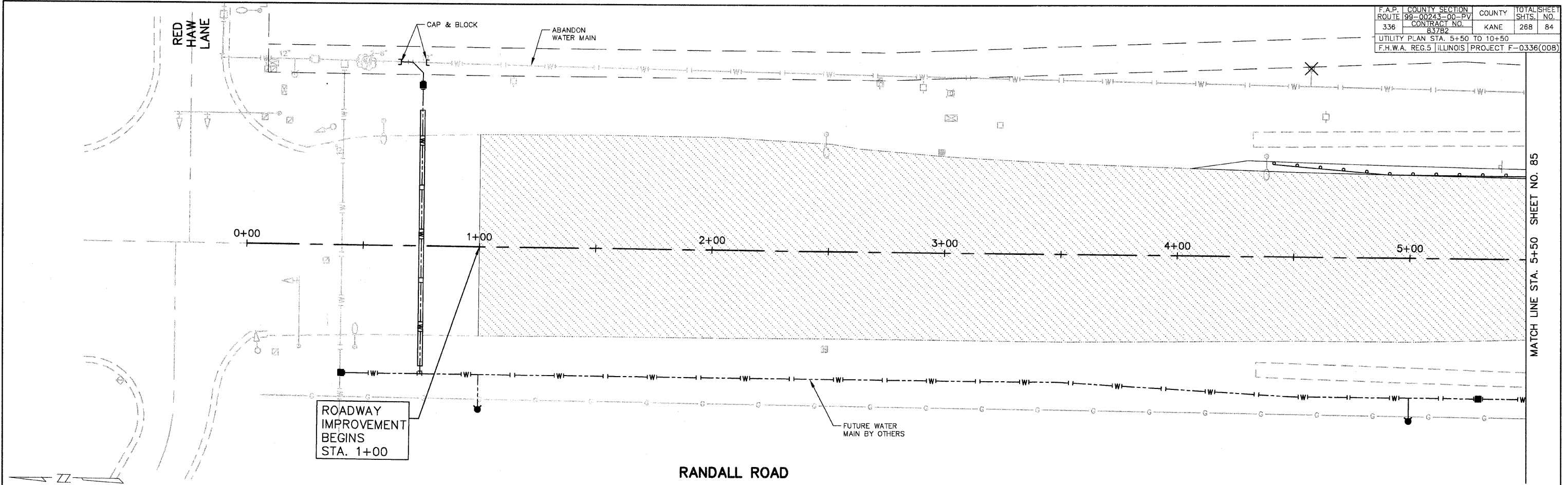




SCALE: 1" = 20'

DEAN STREET





SCALE: 1" = 20'

MATCH LINE STA. 5+50 SHEET NO. 85

DRAINAGE STRUCTURE TABLE STA. 5+50 TO STA. 10+50

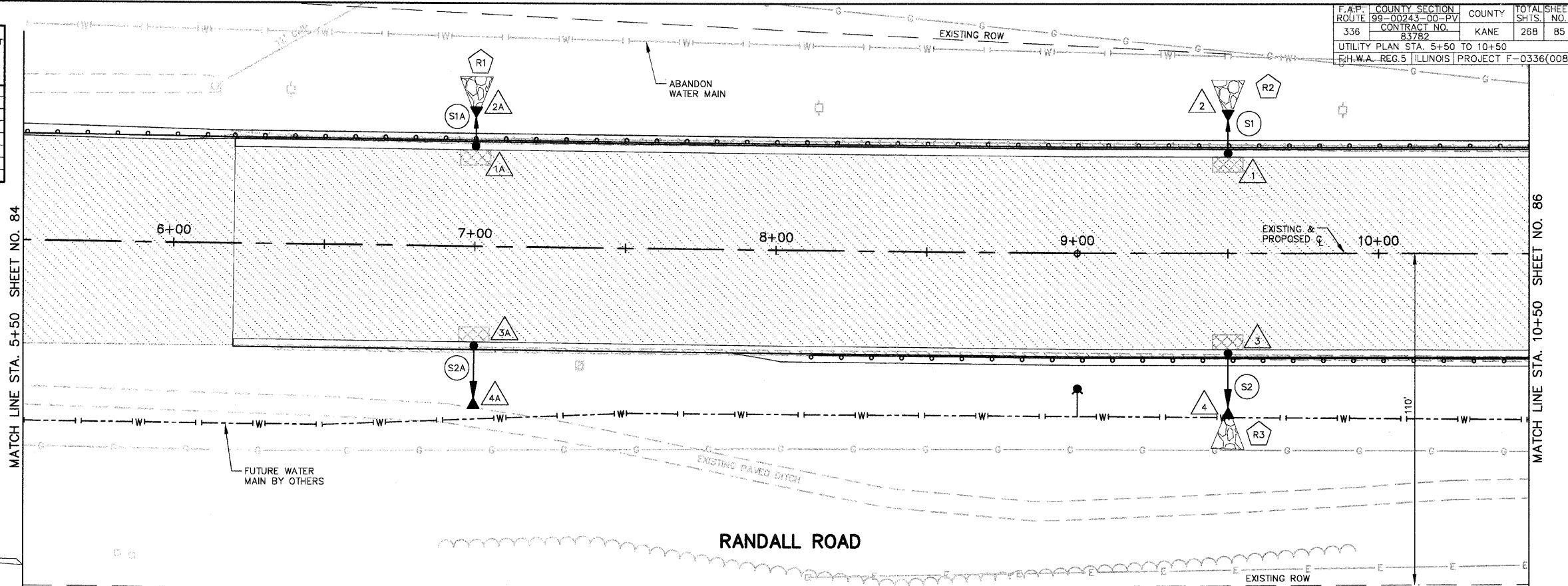
NO.	STA.	OFFSET	STRUCTURE TYPE/SIZE				FRAME & GRATE	RIM ELEV EP/FR	INVERT (N)	INVERT (S)	INVERT (E)	INVERT (W)
			MH	CB	INL	OTHER						
1A	7+00	32' LT		A 4			24	797.01			792.73	
2A	7+00	46' LT			PRC FES 12						792.60	
3A	7+00	32' RT		C 2			24	797.01			794.69	
4A	7+00	54' RT			PRC FES 12						794.60	
1	9+50	32' LT		A 4			24	779.56			775.84	
2	9+50	47' LT			PRC FES 12						775.70	
3	9+50	32' RT		A 4			24	779.56			776.16	
4	9+50	55' RT			PRC FES 12						776.00	

PIPE TABLE STA. 5+50 TO STA. 10+50

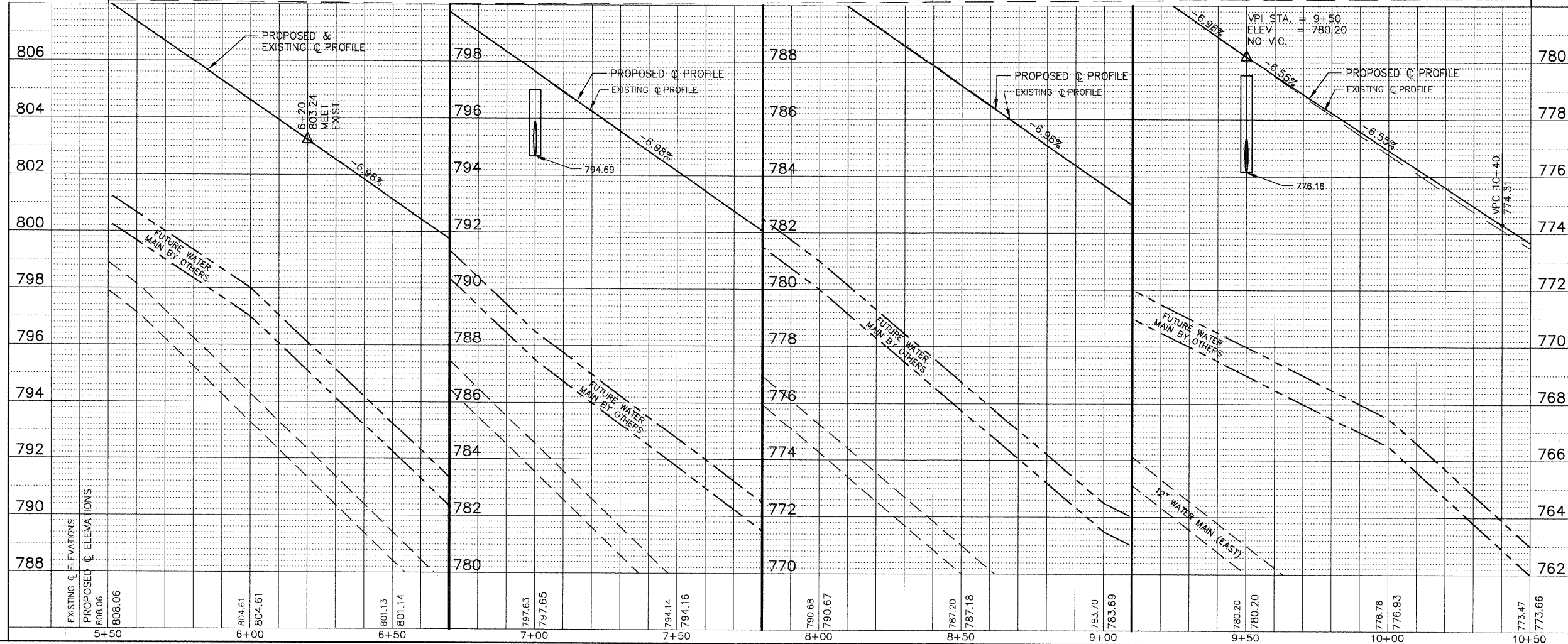
PIPE NO.	LOCATION		DESCRIPTION	DIA (IN)	L (FT)	S (%)	TRENCH BACKFILL	
	FROM STR #	TO STR #					L (FT)	VOL (CY)
S1A	1A	2A	SS 1 RCCP IV	12	7	1.00	2	0.7
S2A	3A	4A	SS 1 RCCP IV	12	15	0.44	2	0.3
S1	1	2	SS 1 RCCP IV	12	8	1.00	2	0.6
S2	3	4	SS 1 RCCP IV	12	16	0.73	2	0.5

ROCK OUTLET PROTECTION TABLE STA. 5+50 TO STA. 10+50

NO.	ASSOCIATED STRUCTURE OUTLET NO.	ROCK GRADATION	DEPTH (IN.)	WIDTH (FT.)		LENGTH (FT.)	AREA (SQ. YD.)
				1	2		
R1	2A	3	15	3	11	10	8
R2	2	3	15	3	11	10	8
R3	4	3	15	3	11	10	8



SCALE: 1" = 20'



F.A.P. COUNTY SECTION	ROUTE 99-00243-00-PV	COUNTY	TOTAL SHEET
336	CONTRACT NO. 83782	KANE	288
UTILITY PLAN STA. 5+50 TO 10+50			85
I.H.W.A. REG. 5 ILLINOIS PROJECT F-0336(008)			

MATCH LINE STA. 10+50 SHEET NO. 86

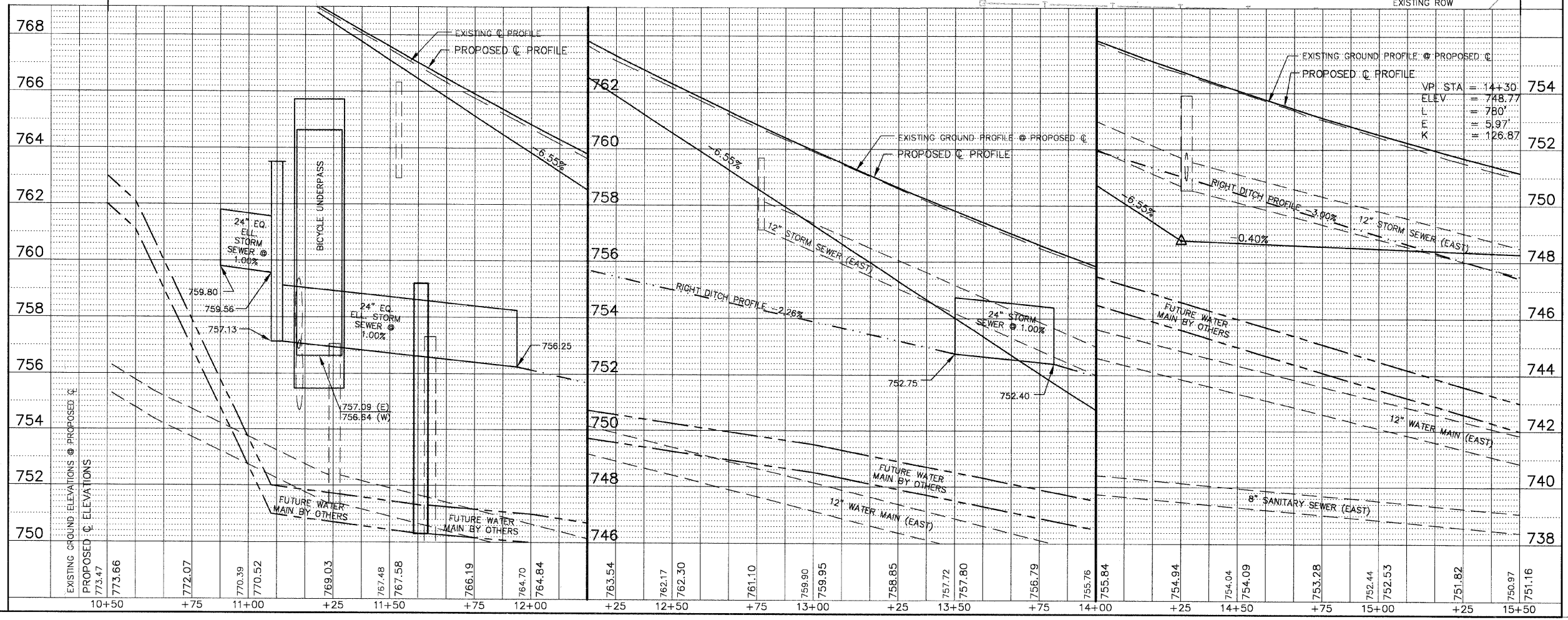
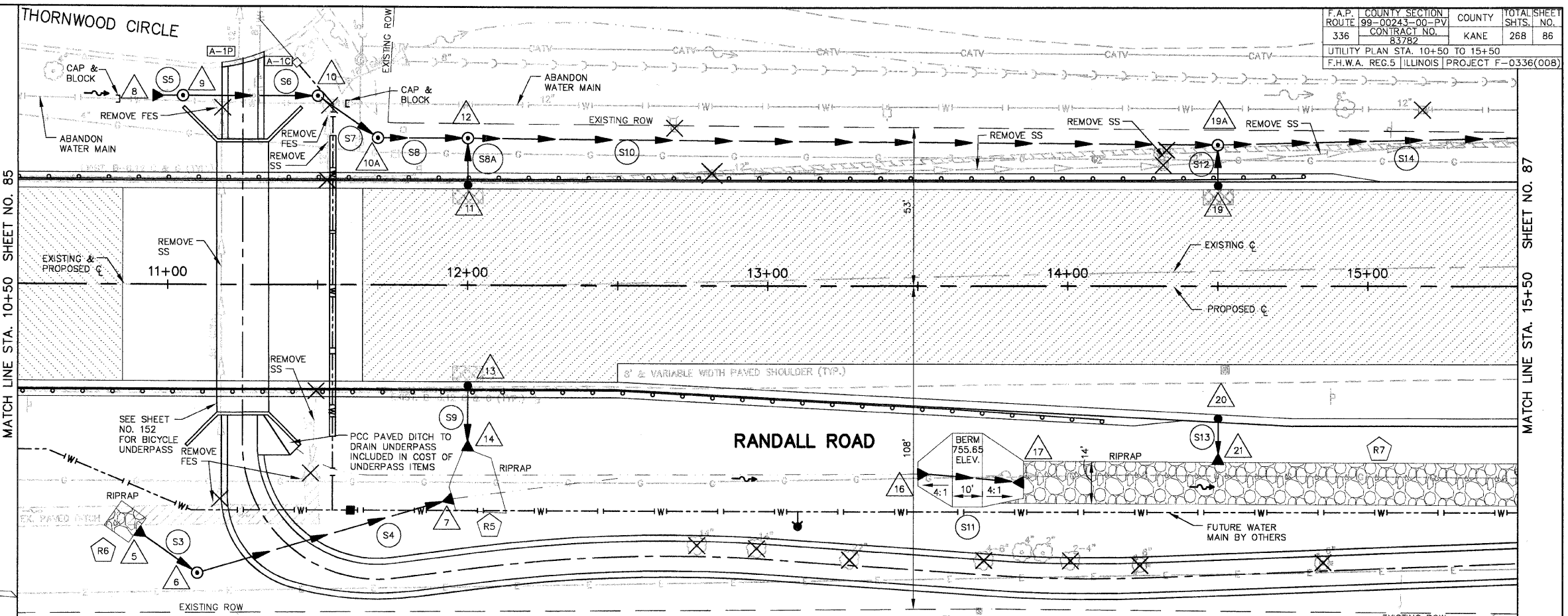
MATCH LINE STA. 5+50 SHEET NO. 84

NO.	STA.	OFFSET	STRUCTURE TYPE/SIZE	FRAME & GRATE	RIM ELEV. EPI/FR	INVERT (N)	INVERT (S)	INVERT (E)	INVERT (W)
5	10+90	82' RT	24 EQ ELL	GRATE	759.80				
6	11+10	96' RT	A5	1C	763.50	759.56	757.13		
7	11+85	71' RT	24 EQ ELL	GRATE			756.25		
8	10+95	63' LT	18 EQ ELL	GRATE	757.20				
9	11+05	63' LT	A5	1C	759.60	756.92	754.55		
10	11+50	63' LT	A5	1C	755.75	753.29	759.29		
10A	11+70	49' LT	A4	1C	761.40	752.87	752.87		
11	12+00	32' LT	A4	24	764.20			754.40	
12	12+00	49' LT	A4	1C	760.70	752.34	752.24		754.24
13	12+00	32' RT	A4	24	764.20				760.20
14	12+00	55' RT	12	24	764.20				760.00
15	NOT USED								
16	13+50	62.5' RT	24	GRATE	752.75				
17	13+85	65' RT	24	GRATE			752.40		
18	NOT USED								
19	14+50	32' LT	A4	24	753.45	748.95			
19A	14+50	47' LT	A4	1C	754.00	747.86	747.76		748.81
20	14+50	42.67' RT	A4	24	753.18				750.52
21	14+50	59' RT	12						750.45
22	NOT USED								
23	NOT USED								

NO.	ASSOCIATED STRUCTURE OUTLET NO.	ROCK GRADATION	DEPTH (IN.)	WIDTH 1 (FT.)	WIDTH 2 (FT.)	LENGTH (FT.)	AREA (SQ. YD.)
R4	NOT USED						
R5	14	4	20	19 (Avg)	10	19 (Avg)	32
R6	5	4	20	10	10	10	12
R7	17	4	20	14	14	215	335

* MEET EXISTING PAVED DITCH

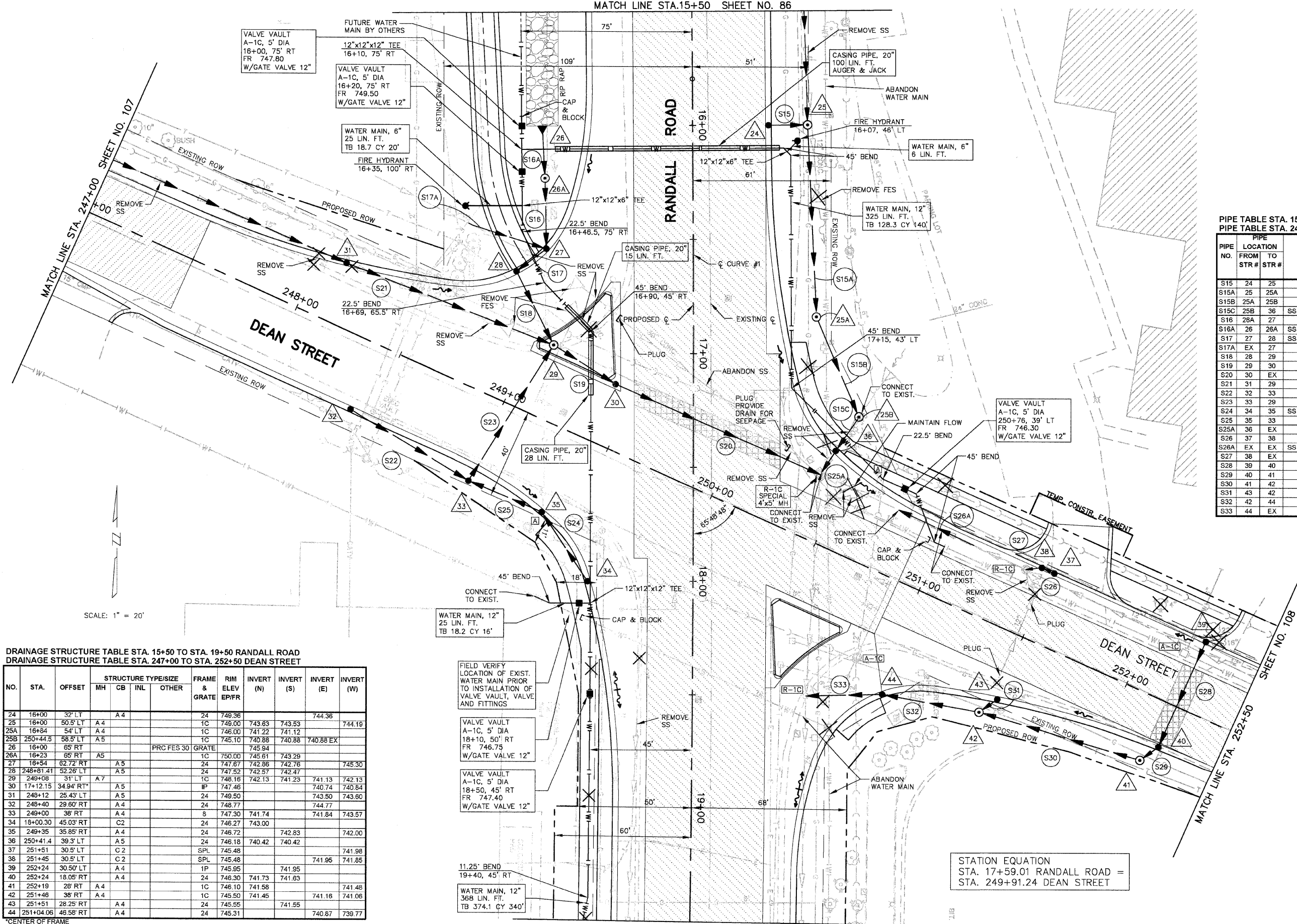
PIPE NO.	PIPE LOCATION		DESCRIPTION	DIA (IN)	L (FT)	S (%)	TRENCH BACKFILL	
	FROM STR #	TO STR #					L (FT)	VOL (CY)
S3	5	6	SS 1 RCCP IV	24 EQ ELL	18	1.00		
S4	6	7	SS 1 RCCP IV	24 EQ ELL	82	1.00	28	4.1
S5	8	9	SS 1 RCCP IV	18 EQ ELL	4	2.80		
S6	9	10	SS 1 RCCP IV	18 EQ ELL	45	2.80	18	11.6
S7	10	10A	SS 2 RCCP IV	18 EQ ELL	24	1.75		
S8	10A	12	SS 2 RCCP IV	18	30	1.75		
S8A	11	12	SS 2 RCCP IV	12	16	1.00	2	2.5
S9	13	14	SS 1 RCCP IV	12	16	1.00	2	0.6
S10	12	19A	SS 2 RCCP IV	18	250	1.75		
S11	16	17	SS 1 RCCP IV	24	23	1.00		
S12	19	19A	SS 2 RCCP IV	12	14	1.00	2	1.3
S13	20	21	SS 1 RCCP IV	12	9	0.47	2	0.5
S14	19A	25	SS 2 RCCP IV	18	150	2.75		



MATCH LINE STA. 15+50 SHEET NO. 87

MATCH LINE STA. 10+50 SHEET NO. 85

MATCH LINE STA.15+50 SHEET NO. 86



RANDALL ROAD
 Q CURVE #1

INCLUDED ANGLE = 01'-32'-13"
 RADIUS = 17520.00'
 TANGENT LENGTH = 234.98'
 ARC LENGTH = 469.93'
 CHORD LENGTH = 469.92'
 EXTERNAL SECANT = 1.58'
 MID ORDINATE = 1.58'
 DEGREE OF CURVE = 00'-19'-37"
 PC STA. = 15+79.77
 PT STA. = 20+49.70

PIPE TABLE STA. 15+50 TO STA. 19+50 RANDALL ROAD
 PIPE TABLE STA. 247+00 TO STA. 252+50 DEAN STREET

PIPE NO.	LOCATION		DESCRIPTION	DIA (IN)	L (FT)	S (%)	TRENCH BACKFILL	
	FROM STR #	TO STR #					L (FT)	VOL (CY)
S15	24	25	SS 2 RCCP IV	12	17	1.00	2	1.4
S15A	25	25A	SS 2 RCCP IV	18	84	2.75		
S15B	25A	25B	SS 2 RCCP IV	18	47	0.50		
S15C	25B	36	SS 1 RCCP IV "O" RING	24	18	2.52	10	6.8
S16	28A	27	SS 1 RCCP IV	30	30	1.43	5	4.2
S16A	26	26A	SS 1 RCCP IV "O" RING	30	17	1.43		
S17	27	28	SS 1 RCCP IV "O" RING	30	19	1.00	19	2.4
S17A	EX	27	SS 1 PVC	8	35	5.00	30	4.2
S18	28	29	SS 1 RCCP IV	30	34	1.00	34	7.7
S19	29	30	SS 2 RCCP IV	42	32	0.90	32	33.3
S20	30	EX	SS 2 RCCP IV	42	89	0.90	99	49.7
S21	31	29	SS 2 RCCP IV	30	96	1.43	96	34.8
S22	32	33	SS 1 RCCP IV	12	60	2.00	30	9.0
S23	33	29	SS 2 RCCP IV	12	69	0.74	69	25.0
S24	34	35	SS 2 RCCP IV "O" RING	12	37	0.46	37	10.3
S25	35	33	SS 2 RCCP IV	12	35	0.46	16	10.6
S25A	36	EX	SS 2 RCCP IV	24	12	2.52	12	11.1
S26	37	38	SS 1 RCCP IV	12	6	0.44	6	0.8
S26A	EX	EX	SS 1 RCCP IV "O" RING	12	35	EX	35	11.2
S27	38	EX	SS 1 RCCP IV	12	6	0.44	6	0.8
S28	39	40	SS 2 RCCP IV	12	50	0.44	50	9.7
S29	40	41	SS 2 RCCP IV	12	10	0.50	3	1.2
S30	41	42	SS 2 RCCP IV	12	73	0.44		
S31	43	42	SS 1 RCCP IV	12	10	1.00	3	1.0
S32	42	44	SS 2 RCCP IV	12	42	0.45	8	2.9
S33	44	EX	SS 2 RCCP IV	12	34	1.00	34	9.8

SCALE: 1" = 20'

DRAINAGE STRUCTURE TABLE STA. 15+50 TO STA. 19+50 RANDALL ROAD
 DRAINAGE STRUCTURE TABLE STA. 247+00 TO STA. 252+50 DEAN STREET

NO.	STA.	OFFSET	STRUCTURE TYPE/SIZE				FRAME & GRATE	RIM ELEV EP/FR	INVERT (N)	INVERT (S)	INVERT (E)	INVERT (W)
			MH	CB	INL	OTHER						
24	16+00	32' LT		A 4			24	749.36		744.36		
25	16+00	50.5' LT	A 4				1C	749.00	743.63	743.53	744.19	
25A	16+84	54' LT	A 4				1C	746.00	741.22	741.12		
25B	250+44.5	58.5' LT	A 5				1C	745.10	740.88	740.88	EX	
26	16+00	65' RT			PRC FES 30	GRATE		745.94				
26A	16+23	65' RT	A 5				1C	750.00	745.61	743.29		
27	16+54	62.72' RT	A 5				24	747.67	742.86	742.76	745.30	
28	248+81.41	52.28' LT	A 5				24	747.52	742.57	742.47		
29	249+08	31' LT	A 7				1C	748.16	742.13	741.23	741.13	
30	17+12.15	34.94' RT	A 5				IF	747.48		740.74	740.84	
31	249+12	25.43' LT	A 5				24	749.50		743.50	743.60	
32	248+40	29.60' RT	A 4				24	748.77		744.77		
33	249+00	38' RT	A 4				8	747.30	741.74		741.84	
34	19+00.30	45.03' RT	C 2				24	746.27	743.00			
35	249+35	35.85' RT	A 4				24	746.72		742.83	742.00	
36	250+41.4	39.3' LT	A 5				24	746.18	740.42	740.42		
37	251+51	30.5' LT	C 2			SPL		745.48			741.98	
38	251+45	30.5' LT	C 2			SPL		745.48			741.95	
39	252+24	30.50' LT	A 4			1P		745.95		741.95		
40	252+24	18.05' RT	A 4			24		746.30	741.73	741.63		
41	252+19	28' RT	A 4			1C		746.10	741.58		741.48	
42	251+46	38' RT	A 4			1C		745.50	741.45		741.16	
43	251+51	28.25' RT	A 4			24		745.55		741.55		
44	251+04.06	46.58' RT	A 4			24		745.31		740.87	739.77	

*CENTER OF FRAME

FIELD VERIFY LOCATION OF EXIST. WATER MAIN PRIOR TO INSTALLATION OF VALVE VAULT, VALVE AND FITTINGS

VALVE VAULT A-1C, 5' DIA 18+10, 50' RT FR 746.75 W/GATE VALVE 12"

VALVE VAULT A-1C, 5' DIA 18+50, 45' RT FR 747.40 W/GATE VALVE 12"

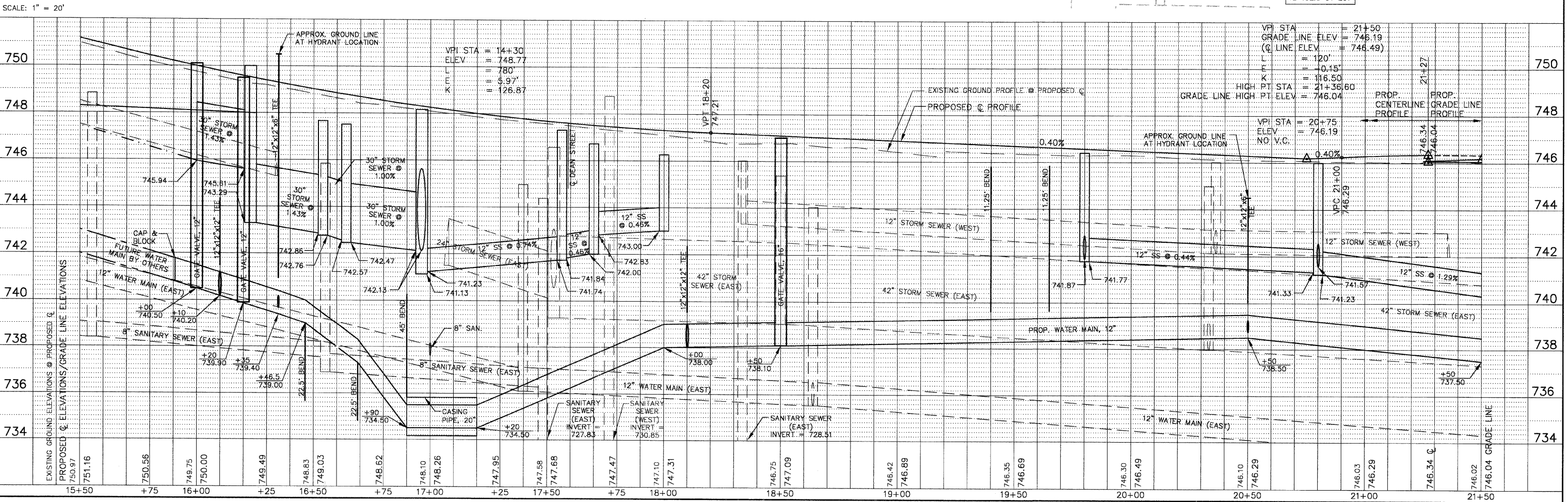
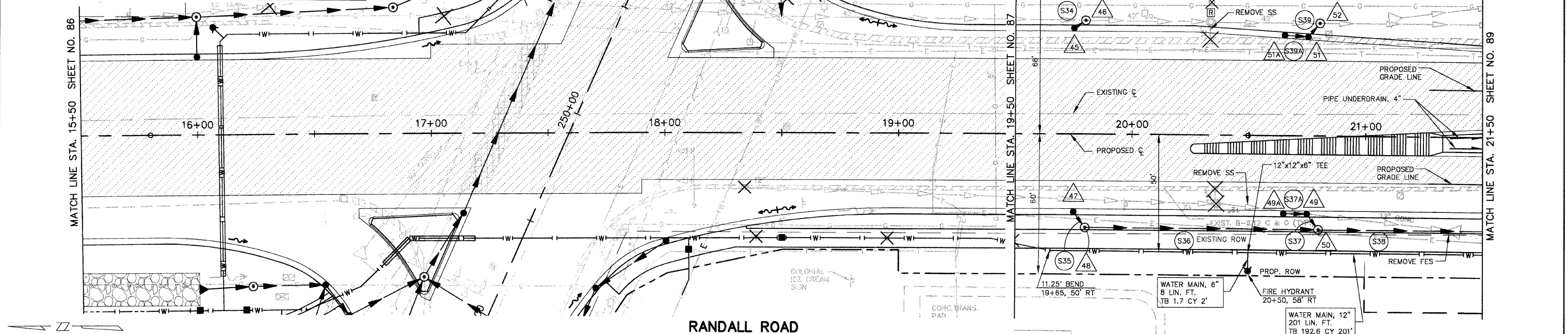
WATER MAIN, 12" 368 LIN. FT. TB 374.1 CY 340'

MATCH LINE STA.19+50 SHEET NO. 88

STATION EQUATION
 STA. 17+59.01 RANDALL ROAD =
 STA. 249+91.24 DEAN STREET

NO.	STA.	OFFSET	STRUCTURE TYPE/SIZE				FRAME & GRATE	RIM ELEV EPI/FR	INVERT (N)	INVERT (S)	INVERT (E)	INVERT (W)
			MH	CB	INL	OTHER						
45	19+75	44' LT	C 2				24	745.83			742.41	
46	19+80	48.60' LT	A 5				1C	746.10	738.28 EX	738.28 EX	742.35	
47	19+75	32' RT	A 4				24	745.95			741.95	
48	19+80	40' RT	A 4				1C	746.40		741.77	741.87	
49	20+75	32' RT	A 4				24	745.63	741.55		741.45	
49A	20+85	32' RT	A 4				24	745.65		741.65		
50	20+80	40' RT	A 4				1C	746.00	741.33	741.23	741.37	
51	20+75	41.12' LT	A 4				24	745.53	741.92		741.92	
51A	20+85	41.71' LT	A 4				24	745.55		742.02		
52	20+80	48.20' LT	A 5				1C	745.00	737.71 EX	737.71 EX	741.84	

PIPE NO.	LOCATION FROM STR #	TO STR #	DESCRIPTION	DIA (IN)	L (FT)	S (%)	TRENCH BACKFILL	
							L (FT)	VOL (CY)
S34	45	46	SS 1 RCCP IV	12	6	1.00	6	1.7
S35	47	48	SS 1 RCCP IV	12	8	1.00	8	2.7
S36	48	50	SS 2 RCCP IV	12	100	0.44	100	38.3
S37	49	50	SS 1 RCCP IV	12	8	1.00	8	2.9
S37A	49A	49	SS 1 RCCP IV	12	10	1.00	10	1.3
S38	50	57	SS 2 RCCP IV	12	171	1.29	171	124.5
S39	51	52	SS 1 RCCP IV	12	8	1.00	5	1.3
S39A	51A	51	SS 1 RCCP IV	12	10	1.00	10	1.3



DRAINAGE STRUCTURE TABLE STA. 21+50 TO STA. 26+50

NO.	STA.	OFFSET	STRUCTURE TYPE/SIZE	FRAME & GRATE	RIM ELEV EP/FR	INVERT (N)	INVERT (S)	INVERT (E)	INVERT (W)
53-56			NOT USED						
57	22+51	40' RT	A 7	1C	745.70	739.02	739.02 SE	737.02	737.02 W
57A	22+27	57' RT	A 4	1C	742.80		737.31		737.02 NW
58	22+73	32' RT	A 4	24	745.34	741.11			
59	22+63	32' RT	A 4	24	745.38	739.15 NW	741.01		
60	22+51	70' RT		60" PRC FES	GRATE				737.32
61	22+63	CL	A 4	8	745.80	738.74			
62	22+73	32' LT	A 4	24	745.34	739.11			
63	22+63	32' LT	A 4	24	745.38	738.41	739.01		
64	22+25	48' 21" LT	A 5	1C	744.60	736.89 EX	736.54		
65	22+43	64' LT		42" PRC FES	GRATE				736.40
66	22+99	32' RT	C 2	24	745.37		741.24		
67	23+05.5	32' RT	A 4	24	745.41	741.18		741.08	
68	22+99	8' RT	C 2	11V	745.37		741.24		
69	23+05.5	8' RT	A 4	11V	745.42	741.18		740.73	740.83
70	23+05.5	CL	A 4	8	745.73			740.56	740.86
71	22+99	8' LT	C 2	11V	745.37		741.24		
72	23+05.5	8' LT	A 4	11V	745.42	741.18		740.39	740.49
73	22+99	32' LT	C 2	24	745.37		741.24		
74	23+05.5	32' LT	A 4	24	745.41	741.18		739.60	740.14
75			NOT USED						
76	23+13	68' RT		12" PRC FES				740.72	
77	23+13	54' RT	A 5	1C	745.20		740.65	740.65	
78	23+53	73' RT	A 4	1C	747.70	737.68	737.68 SW	740.65	
79	22+56	73' RT		18" PRC FES	GRATE				
79A	23+81	44' LT	A 6	1C	745.70	740.04	740.25 EX	740.04	
80	24+05	8' RT	A 4	11V	746.10		742.38		
80A	23+12	53' LT	STR	1C	744.22	739.39 NW	739.45	739.37	739.45
81	24+05	8' LT	A 4	11V	746.10		742.21		742.31
81A	23+12	65' LT		30" PRC FES	GRATE				739.28
82	24+65	32' 44' RT	A 4	24	746.58			742.31	
83	24+65	CL	A 4	8	746.90	741.94	742.07	741.84	741.98
84	25+05	8.67' RT	A 4	11V	746.93			742.72	
85	25+05	8.67' LT	A 4	11V	746.93	742.47			742.57
86	24+65	32' 44' LT	A 4	24	746.58		741.41	741.51	
87	24+65	45.30' LT	A 5	1C	745.85	740.77 EX	740.77 EX		743.12
88	25+50	34.33' LT	A 4	24	747.53		743.23		
89	25+50	46.60' LT	A 5	1C	747.00	741.30 EX	741.30 EX		743.12
90	26+30	36.11' RT	A 4	24	748.82		744.01	744.10	
91	26+30	10.06' RT	A 4	11V	748.86		743.64	743.74	
92	26+30	CL	A 4	8	748.93		743.45	743.55	
93	26+30	10.06' LT	A 4	11V	748.86		743.26	743.36	
94	26+30	36.11' LT	A 4	24	748.82		742.89	742.99	
95	26+30	47.40' LT	A 5	1C	748.30	742.45 EX	742.45 EX		742.79

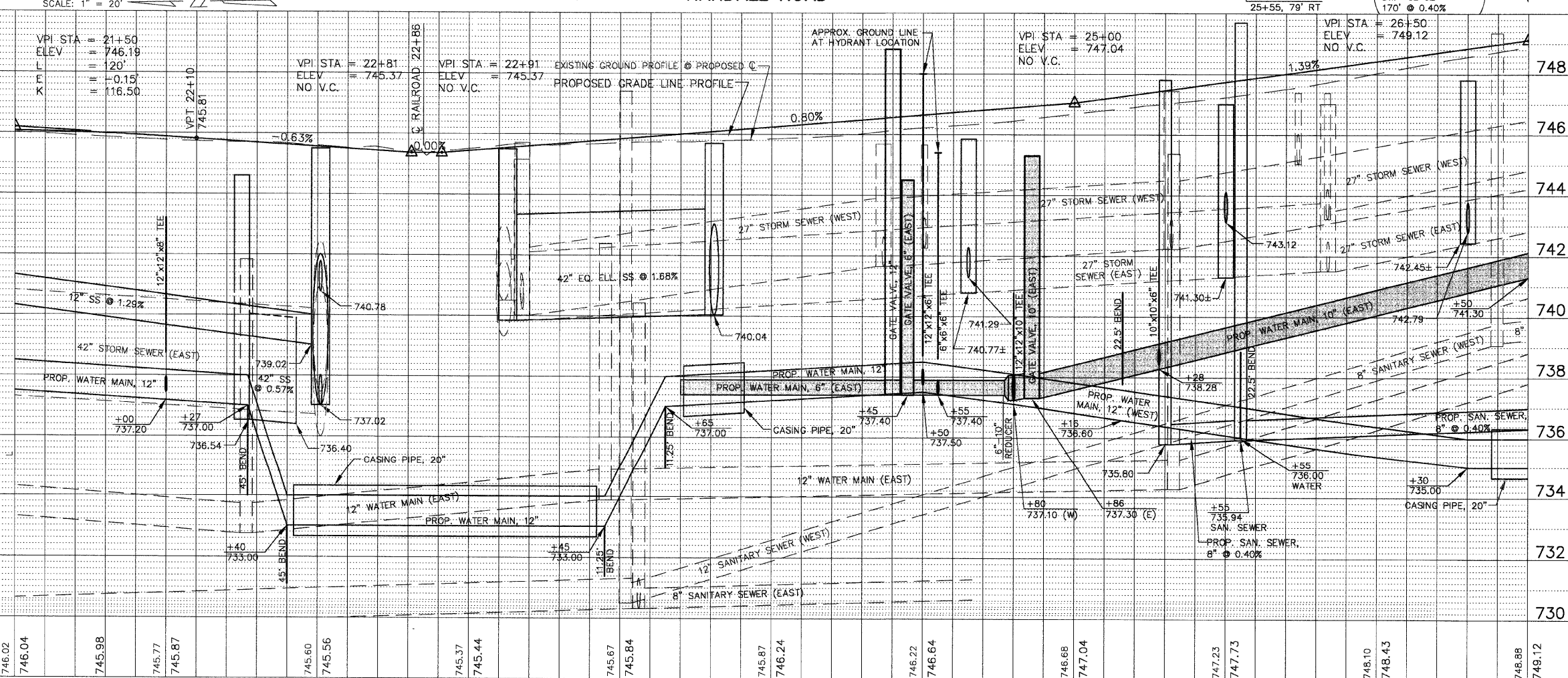
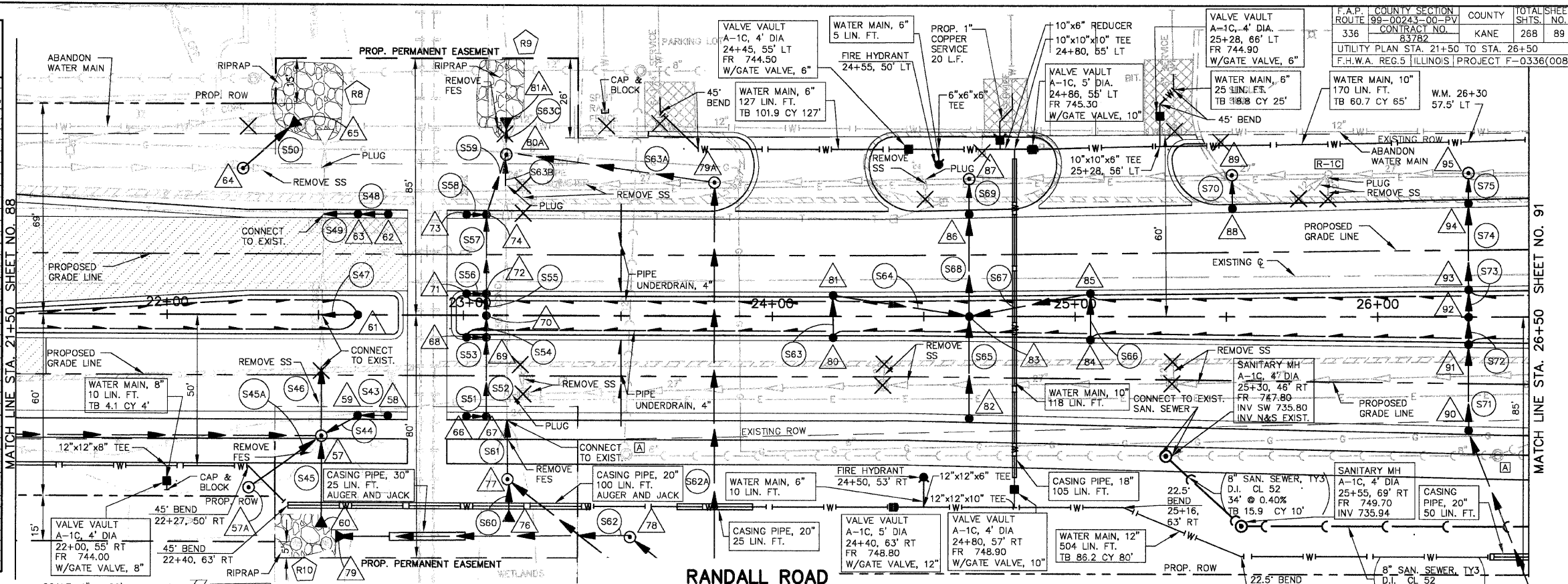
*SEE DRAINAGE STRUCTURE DETAIL

PIPE TABLE STA. 21+50 TO STA. 26+50

PIPE NO.	LOCATION FROM STR #	TO STR #	DESCRIPTION	DIA (IN)	L (FT)	S (%)	TRENCH BACKFILL L (FT)	VOL (CY)
S40-S42			NOT USED					
S43	58	59	SS 1 RCCP IV	12	10	1.00	10	1.5
S44	59	57	SS 1 RCCP IV	12	13	1.00	13	5.0
S45	60	57	SS 1 RCCP IV	60	22	1.00	17	22.3
S45A	57A	57	SS 2 RCCP IV "O" RING	12	29	1.00	20	23.5
S46	57	EX	SS 1 RCCP IV	60	21	1.00	21	14.8
S47	61	EX	SS 2 RCCP IV	12	12	1.00		
S48	62	63	SS 1 RCCP IV	12	10	1.00	10	3.6
S49	63	EX	SS 2 RCCP IV	12	12	1.00	12	8.4
S50	64	65	SS 2 RCCP IV	42	16	0.57		
S51	66	67	SS 1 RCCP IV	12	6	1.00	6	0.8
S52	67	69	SS 2 RCCP IV	12	25	1.00	25	4.3
S53	68	69	SS 1 RCCP IV	12	6	1.00	6	0.9
S54	69	70	SS 2 RCCP IV	12	7	1.00	2	0.5
S55	70	72	SS 2 RCCP IV	12	7	1.00	2	0.5
S56	71	72	SS 1 RCCP IV	12	6	1.00	6	0.9
S57	72	74	SS 2 RCCP IV	12	25	1.00	25	5.9
S58	73	74	SS 1 RCCP IV	12	6	1.00	6	0.9
S59	74	80A	SS 2 RCCP IV	12	21	1.00	2	1.6
S60	78	77	SS 1 RCCP IV	12	8	0.50		
S61	77	EX	SS 1 RCCP IV	30	19	1.16	19	5.6
S62	78	79	SS 1 RCCP IV	18	91	0.27		
S62A	408	79A	SS 1 RCCP IV	36	126	0.20	88	50.3
S63	80	81	SS 1 RCCP IV	12	14	0.50	4	0.5
S63A	79A	80A	SS 1 RCCP IV	42	69	0.85		
S63B	EX.	80A	SS 1 RCCP IV	30	6	1.15		
S63C	80A	81A	SS 1 RCCP IV	30	2	1.15		
S64	81	83	SS 2 RCCP IV	12	45	0.60	20	3.9
S65	82	83	SS 2 RCCP IV	12	33	1.00	27	3.6
S66	84	85	SS 1 RCCP IV	12	15	1.00	4	0.5
S67	85	83	SS 2 RCCP IV	12	40	1.00	15	2.0
S68	83	86	SS 2 RCCP IV	12	33	1.00	27	3.6
S69	86	87	SS 2 RCCP IV	12	12	1.00	2	1.3
S70	88	89	SS 1 RCCP IV	12	11	1.00	2	0.7
S71	90	91	SS 1 RCCP IV	15	27	1.00	27	3.3
S72	91	92	SS 2 RCCP IV	15	9	1.00	2	0.5
S73	92	93	SS 2 RCCP IV	15	9	1.00	2	0.5
S74	93	94	SS 2 RCCP IV	15	27	1.00	27	4.6
S75	94	95	SS 2 RCCP IV	15	10	1.00	2	1.5

ROCK OUTLET PROTECTION TABLE STA. 21+50 TO STA. 26+50

NO.	ASSOCIATED STRUCTURE OUTLET NO.	ROCK GRADATION	DEPTH (IN.)	WIDTH 1 (FT.)	WIDTH 2 (FT.)	LENGTH (FT.)	AREA (SQ. YD.)
R8	65	6	32	24	-	26	57
R9	81A	5	28	16	-	22	36
R10	79	4	20	13	-	20	24



ROCK OUTLET PROTECTION TABLE STA. 23+00 TO STA. 27+00

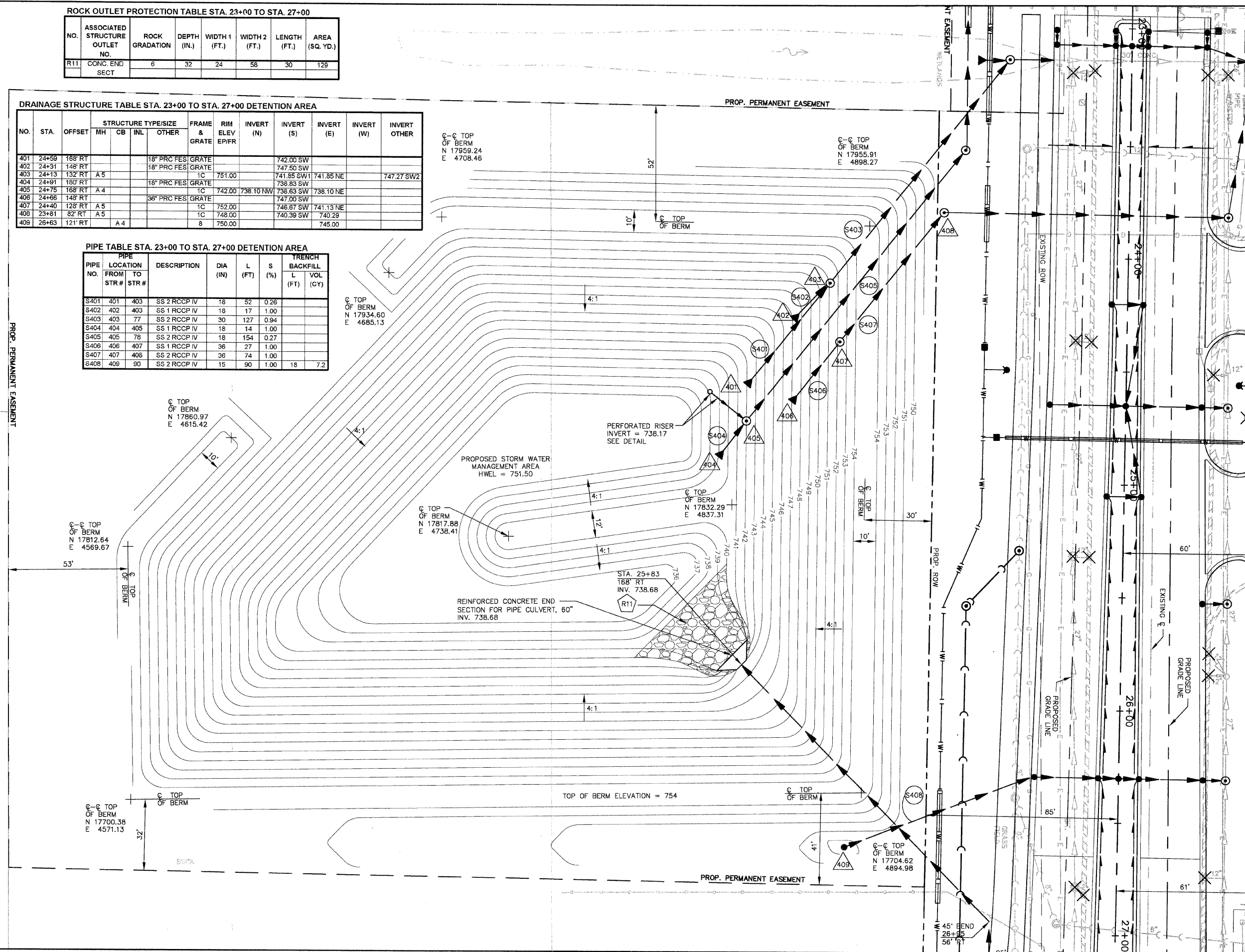
NO.	ASSOCIATED STRUCTURE OUTLET NO.	ROCK GRADATION	DEPTH (IN.)	WIDTH 1 (FT.)	WIDTH 2 (FT.)	LENGTH (FT.)	AREA (SQ. YD.)
R11	CONC. END SECT	6	32	24	58	30	129

DRAINAGE STRUCTURE TABLE STA. 23+00 TO STA. 27+00 DETENTION AREA

NO.	STA.	OFFSET	STRUCTURE TYPE/SIZE	FRAME & GRATE	RIM ELEV EPI/FR	INVERT (N)	INVERT (S)	INVERT (E)	INVERT (W)	INVERT OTHER
401	24+59	168' RT	18" PRC FES	GRATE		742.00 SW				
402	24+31	148' RT	18" PRC FES	GRATE		747.50 SW				
403	24+13	132' RT	A 5		751.00	741.85 SW	741.85 SW	741.85 NE		747.27 SW2
404	24+91	180' RT	18" PRC FES	GRATE		738.83 SW				
405	24+75	168' RT	A 4		742.00	738.10 NW	738.63 SW	738.10 NE		
406	24+66	148' RT	36" PRC FES	GRATE		747.00 SW				
407	24+40	128' RT	A 5		752.00	746.67 SW	741.13 NE			
408	23+81	82' RT	A 5		748.00	740.39 SW	740.29			
409	26+63	121' RT	A 4		750.00					

PIPE TABLE STA. 23+00 TO STA. 27+00 DETENTION AREA

PIPE NO.	PIPE LOCATION		DESCRIPTION	DIA (IN)	L (FT)	S (%)	TRENCH BACKFILL	
	FROM STR #	TO STR #					L (FT)	VOL (CY)
S401	401	403	SS 2 RCCP IV	18	52	0.28		
S402	402	403	SS 1 RCCP IV	18	17	1.00		
S403	403	77	SS 2 RCCP IV	30	127	0.94		
S404	404	405	SS 1 RCCP IV	18	14	1.00		
S405	405	78	SS 2 RCCP IV	18	154	0.27		
S406	406	407	SS 1 RCCP IV	36	27	1.00		
S407	407	408	SS 2 RCCP IV	36	74	1.00		
S408	409	90	SS 2 RCCP IV	15	90	1.00	18	7.2



SCALE: 1" = 20'

**RANDALL ROAD
 @ CURVE #2**

RADIUS = 9950.00'
 ARC LENGTH = 232.66'
 CHORD LENGTH = 232.65'
 TANGENT LENGTH = 116.33'
 DEGREE OF CURVE = 00°-34'-33"
 MID ORDINATE = 0.68"
 EXTERNAL SECANT = 0.68"
 INCLUDED ANGLE = 01°-20'-23"
 PC = 30+95.36
 PT = 33+28.01

DRAINAGE STRUCTURE TABLE STA. 26+50 TO STA. 31+50

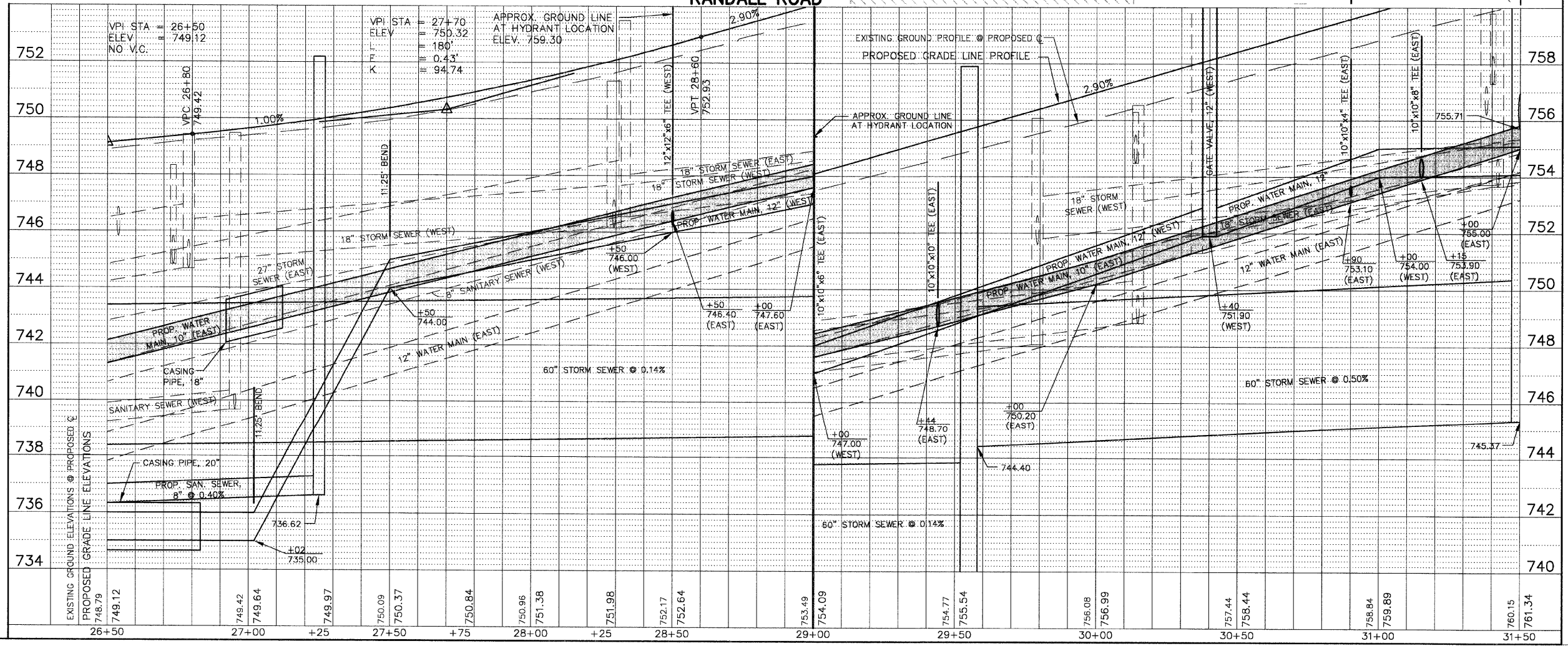
NO.	STA.	OFFSET	MH	CB	INL	OTHER	FRAME & GRATE	RIM ELEV EPIFR	INVERT (N)	INVERT (S)	INVERT (E)	INVERT (W)
96	27+75	39.33 RT	A 4				24	750.59			747.59	
97	27+75	11.67 RT	A 4				11V	750.65			746.39	747.30
98	27+75	CL	A 4				8	750.90			746.18	746.28
99	27+75	11.67 LT	A 4				11V	750.66			745.97	746.07
100	27+75	39.33 LT	A 4				24	750.59			745.58	745.68
101	27+75	48.50 LT	A 5				1C	752.40	745.38 EX	745.38 EX	745.50	745.50
102	29+55	43.33 LT	A 4				24	755.39			750.11	750.21
102A	29+55	52' LT	A 4				1C	755.80	748.07	751.86	750.11	750.04
102B	29+55	59.5 LT	C 2				11V	756.20	752.24	752.24	750.11	750.04
102C	29+55	59.5 LT	C 2				1P	756.90	752.40	752.50 EX	750.11	750.04
103	29+55	13.67 LT	A 4				11V	755.50			750.52	750.62
104	29+55	CL	A 4				8	755.88			750.75	750.85
105	29+55	13.67 RT	A 4				11V	755.50			750.98	751.99
106	29+55	43.33 RT	A 4				24	755.39			752.30	
107	29+55	56' RT	A 7			3' SUMP	1C	757.90	739.27	744.40		
107A	31+50	61.5 RT	A 7			3' SUMP	1C	761.60	745.37	750.37	755.71	

*PLACE STRUCTURE TO INTERCEPT EXISTING 8" STORM SEWER

SCALE: 1" = 20'

PIPE TABLE STA. 26+50 TO STA. 31+50

PIPE NO.	FROM STR #	TO STR #	DESCRIPTION	DIA (IN)	L (FT)	S (%)	TRENCH BACKFILL	
							L (FT)	VOL (CY)
S76	96	97	SS 1 RCCP IV	12	29	1.00	29	3.8
S77	97	98	SS 2 RCCP IV	12	11	1.00	2	0.4
S78	98	99	SS 2 RCCP IV	12	11	1.00	2	0.5
S79	99	100	SS 2 RCCP IV	12	29	1.00	29	6.8
S80	100	101	SS 2 RCCP IV	12	8	1.00	2	1.7
S80A	102A	EX	SS 2 DI CL 52	18	122	1.25		
S81	103	102	SS 2 RCCP IV	12	31	1.00	31	9.3
S82	104	103	SS 2 RCCP IV	12	13	1.00	2	0.5
S83	105	104	SS 2 RCCP IV	12	13	1.00	2	0.5
S84	106	105	SS 1 RCCP IV	12	31	1.00	31	4.1
S85	102	102A	SS 2 RCCP IV	12	7	1.00	2	1.5
S85A	102B	102A	SS 1 DI CL 52	12	38	1.00	2	0.5
S85B	102C	102B	SS 1 DI CL 52	12	32	0.50	32	8.6
S86	107	POND	SS3 RCCP IV	60	418	0.14	260	1233.2
S86A	107A	107	SS 2 RCCP IV	60	195	0.50	195	677.8



MATCH LINE STA. 26+50
 SHEET NO. 89

MATCH LINE STA. 31+50
 SHEET NO. 92

**RANDALL ROAD
 @ CURVE #2**

RADIUS = 9950.00'
 ARC LENGTH = 232.66'
 CHORD LENGTH = 116.33'
 DEGREE OF CURVE = 00°-34'-33"
 MID ORDINATE = 0.68'
 EXTERNAL SECANT = 0.68'
 INCLUDED ANGLE = 01°-20'-23"
 PC = 30+95.36
 PT = 33+28.01

ROCK OUTLET PROTECTION TABLE STA. 31+50 TO STA. 36+50

NO.	ASSOCIATED STRUCTURE OUTLET NO.	ROCK GRADATION	DEPTH (IN.)	WIDTH 1 (FT.)	WIDTH 2 (FT.)	LENGTH (FT.)	AREA (SQ. YD.)
R12	113A	6	32	13	28	28	65

DRAINAGE STRUCTURE TABLE STA. 31+50 TO STA. 36+50

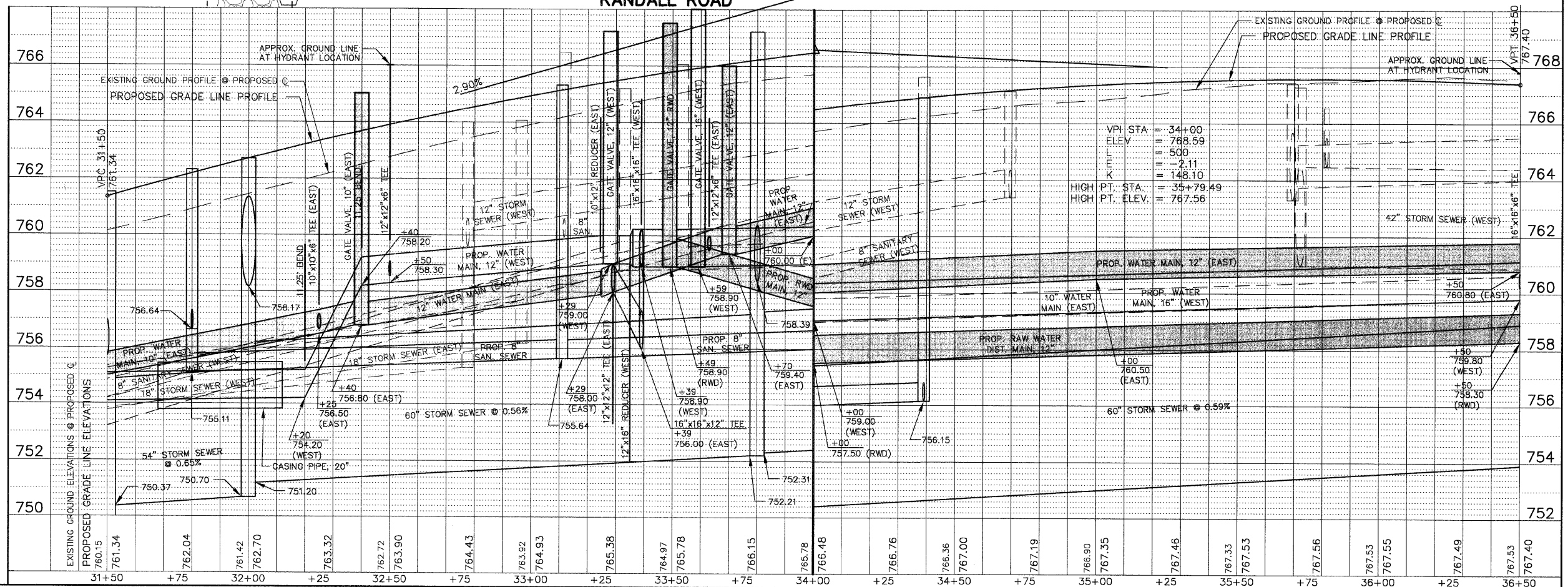
NO.	STA.	OFFSET	STRUCTURE TYPE/SIZE	FRAME & GRATE	RIM ELEV. EPI/FR	INVERT (N)	INVERT (S)	INVERT (E)	INVERT (W)
108	31+70	48.11' LT	A 4		24	781.55			757.30
109	31+70	15' LT	A 4		8	781.90		756.96	756.86
110	31+70	CL	A 4		8	781.90		756.72	756.82
111	31+70	15' RT	A 4		11V	781.73		756.48	756.58
112	31+70	48.11' RT	A 4		24	781.55		756.04	755.94
113	32+00	63' RT	JCT*		1C	784.00	750.70	751.20	758.17
113A	32+05	48' RT		PRC FES 48 EQ ELL					757.53
114	36+00	58' LT			8	767.00			762.17
114A	36+00	39' LT	A 4		1C	767.37	764.11		764.11
115	34+80	58' LT			8	766.80			762.55
115A	34+80	39' LT	A 4		1C	767.05	762.11	763.73	762.38
115A	34+80	39' LT	A 4		1C	767.05	762.11	763.73	762.38
115B	35+12.2	58' LT			11V	766.70	762.70 NW		762.77
116	34+80	1.23' RT	A 4		8	766.75			761.50
117	33+80	58' LT			8	765.75			761.34
118	33+80	51' LT	A 4		24	765.80		761.44	761.34
118A	33+80	39' LT	A 4		1C	766.04	760.30	761.11	760.20
119	33+80	15' LT	A 4		11V	766.04		759.96	759.66
120	33+80	2.35' LT	A 4		8	766.17		759.74	759.64
121	33+80	10.29' RT	A 5		11V	765.95		759.52	759.02
122	33+80	51' RT	A 5		24	765.80		758.60	758.50
123	33+80	63' RT	A 7		1C	767.20	752.21	752.31	758.39

*SEE JUNCTION STRUCTURE DETAIL

SCALE: 1" = 20'

PIPE TABLE STA. 31+50 TO STA. 36+50

PIPE NO.	PIPE LOCATION FROM STR # TO STR #	DESCRIPTION	DIA (IN)	L (FT)	S (%)	TRENCH BACKFILL	
						L (FT)	VOL (CY)
S87	113 107A	SS 2 RCCP CL IV	54	50	0.65	50	168.1
S88	108 109	SS 2 RCCP CL IV	15	34	1.00	34	7.2
S89	109 110	SS 2 RCCP CL IV	15	14	1.00	2	0.5
S90	110 111	SS 2 RCCP CL IV	15	14	1.00	2	0.6
S91	111 112	SS 2 RCCP CL IV	15	34	1.00	34	10.4
S92	112 107A	SS 2 RCCP CL IV	15	23	1.00	10	7.8
S93	123 113	SS 2 RCCP CL IV	60	180	0.56	180	571.7
S94	114A 115A	SS 1 RCCP CL IV	15	120	0.32	120	14.5
S94A	114 114A	SS 1 RCCP CL IV	15	19	0.32	15	1.8
S95	115A 118A	SS 2 RCCP CL IV	18	100	1.00	100	12.0
S96	115 115A	SS 2 RCCP CL IV	15	19	1.00	15	1.8
S96A	115B 115A	SS 2 RCCP CL IV	12	37	1.00	37	4.9
S96B	116 115A	SS 2 RCCP CL IV	12	39	1.00	30	4.0
S97	117 118	SS 2 RCCP CL IV	15	6	1.00	2	0.3
S97A	EX 118A	SS 2 RCCP CL IV	12	82	0.44	82	15.9
S98	118 118A	SS 2 RCCP CL IV	15	13	1.00	13	1.6
S98A	118A 119	SS 2 RCCP CL IV	18	24	1.00	24	5.9
S99	119 120	SS 2 RCCP CL IV	18	12	1.00	2	0.5
S100	120 121	SS 2 RCCP CL IV	18	12	1.00	2	0.6
S101	121 122	SS 2 RCCP CL IV	24	42	1.00	42	16.1
S102	122 123	SS 2 RCCP CL IV	24	11	1.00	2	1.0
S103	113 113A	SS 1 RCCP CL IV	48 EQ ELL	417	0.15	12	32.8



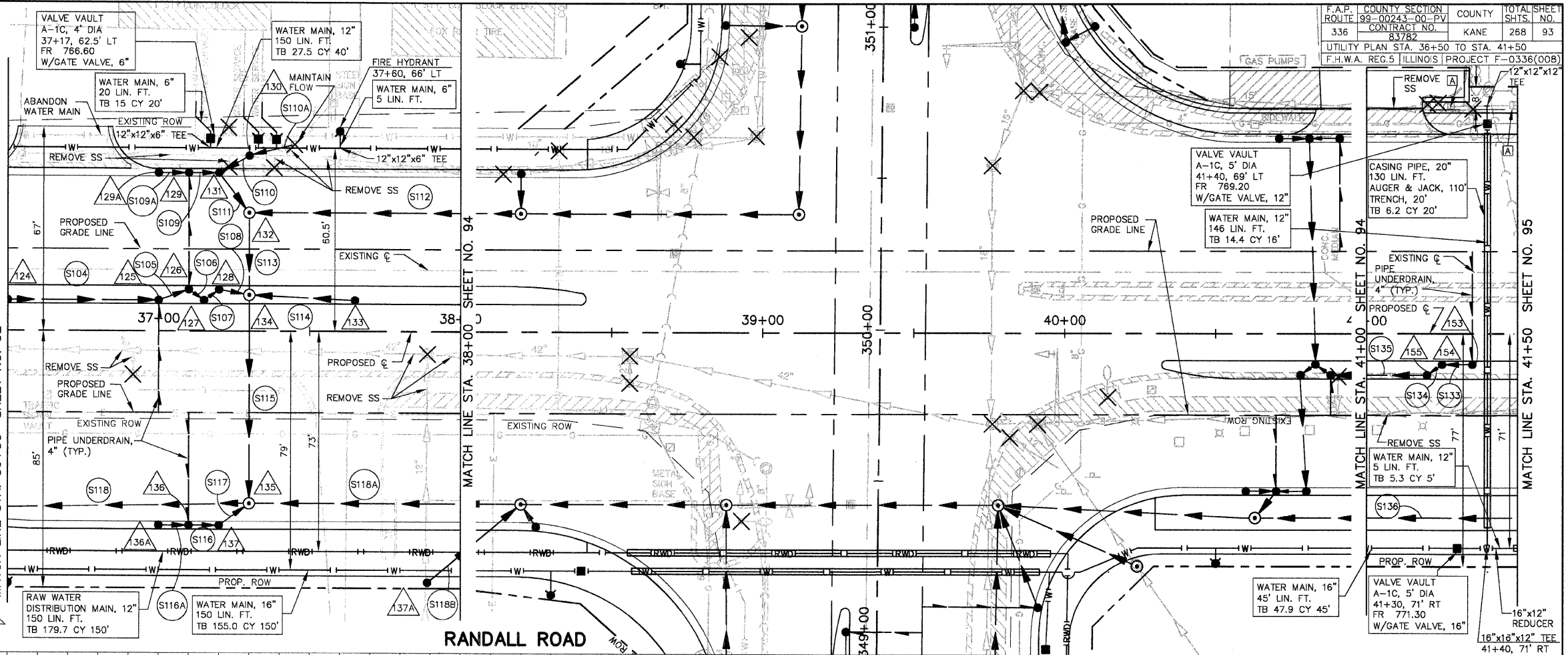
F.A.P. COUNTY SECTION	99-00243-00-PV	COUNTY	KANE	TOTAL SHEETS	92
ROUTE	336	CONTRACT NO.	83782		
UTILITY PLAN STA.	31+50 TO STA. 36+50	F.H.W.A. REG. 5	ILLINOIS PROJECT F-0336(00B)		

MATCH LINE STA. 36+50 SHEET NO. 93

MATCH LINE STA. 36+50 SHEET NO. 93

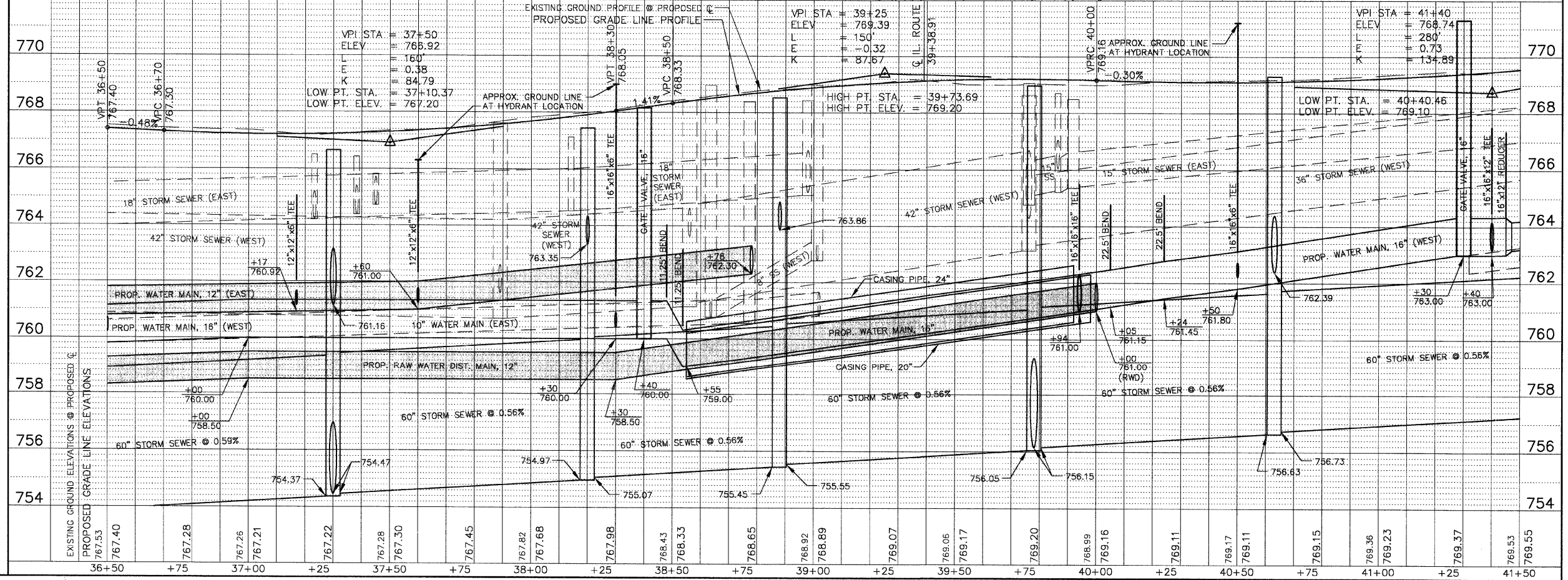
DRAINAGE STRUCTURE TABLE STA. 36+50 TO STA. 41+50

NO.	STA.	OFFSET	STRUCTURE TYPE/SIZE	FRAME & GRATE	RIM ELEV EPI/FR	INVERT (N)	INVERT (S)	INVERT (E)	INVERT (W)
124	36+50	9' LT	A 4		11V 766.74		762.74		
125	37+00	9' LT	A 4		11V 766.55	762.24	762.14		
126	37+10	15' LT	A 4		11V 767.02	762.03	761.93		
127	37+15	9' LT	A 5		11V 766.61	761.86	760.76		
128	37+20	15' LT	A 5		11V 767.03	760.69	760.59		
129	37+10	51' LT	A 4		24 766.78	762.88	762.78		
129A	37+00	51' LT	A 4		24 766.79		762.98		
130	37+30	58' LT	C 2		1P 766.50	761.50	763.30		
131	37+20	51' LT	A 5		24 766.79	762.68	761.39		780.28
132	37+30	39' LT	A 5		1C 767.05		755.34	760.12	755.24
133	37+65	9' LT	A 4		11V 767.13	763.13			
134	37+30	12' LT	A 5		1C 767.32	760.49	762.78	755.05	754.95
135	37+30	57' RT	A 7		1C 766.65	754.37	754.47	754.47	761.16
136	37+10	63' RT	A 4		24 766.48	762.58	762.48		
136A	37+00	63' RT	A 4		24 766.49		762.68		
137	37+20	63' RT	A 5		24 766.48	762.38		761.28	
137A	37+89	83' RT	C 2		1C 768.70		755.90		761.95 EX
153	41+35	9' RT	A 4		11V 769.00	765.00			
154	41+25	9' RT	A 5		11V 769.01		764.90		783.74
155	41+20	15' RT	A 5		11V 769.22	763.57			



PIPE TABLE STA. 36+50 TO STA. 41+50

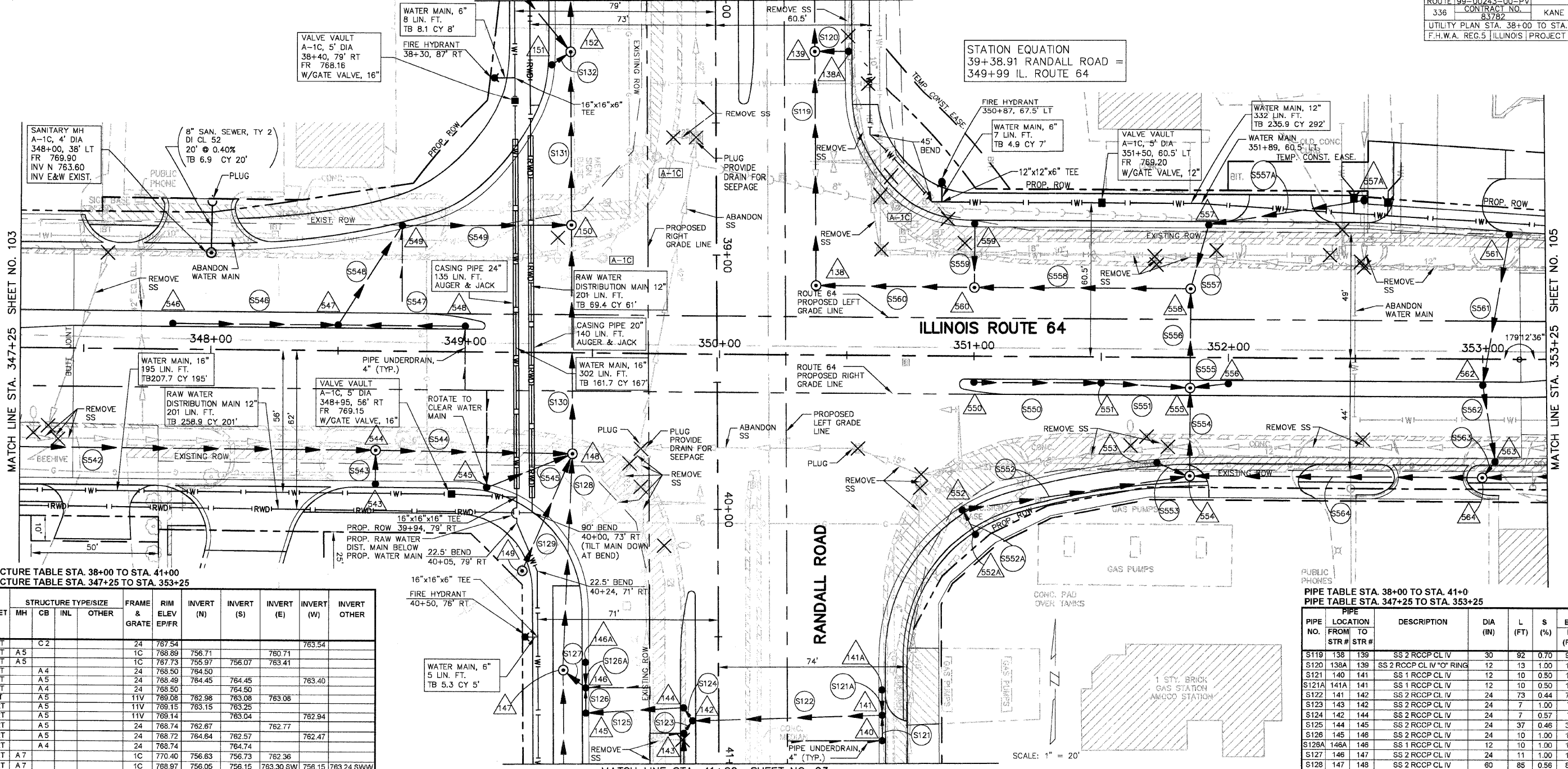
PIPE NO.	LOCATION FROM STR #	TO STR #	DESCRIPTION	DIA (IN)	L (FT)	S (%)	TRENCH BACKFILL L (FT)	VOL (CY)
S104	124	125	SS 2 RCCP CL IV	12	50	1.00	50	6.6
S105	125	126	SS 2 RCCP CL IV	12	11	1.00	11	1.5
S106	126	127	SS 2 RCCP CL IV	12	7	1.00	7	0.9
S107	127	128	SS 2 RCCP CL IV	24	7	1.00	7	1.9
S108	128	134	SS 2 RCCP CL IV	24	10	1.00	10	3.2
S109	129	131	SS 1 DI CL 52	12	10	1.00	10	1.3
S109A	129A	129	SS 1 DI CL 52	12	10	1.00	10	1.3
S110	130	131	SS 2 DI CL 52	12	11	1.00	4	1.3
S110A	EX	130	SS 1 PVC	6	20	7.10		
S111	131	132	SS 2 RCCP CL IV	24	16	1.00	16	5.6
S112	139	132	SS 2 RCCP CL IV	30	90	0.70	90	144.7
S113	132	134	SS 2 RCCP CL IV	30	27	0.70	27	44.6
S114	133	134	SS 2 RCCP CL IV	12	35	1.00	35	4.6
S115	134	135	SS 2 RCCP CL IV	30	69	0.70	69	120.3
S116	136	137	SS 1 DI CL 52	12	10	1.00	10	1.3
S116A	136A	136	SS 1 DI CL 52	12	10	1.00	10	1.3
S117	137	135	SS 2 RCCP CL IV	24	12	1.00	12	1.8
S118	135	123	SS 2 RCCP CL IV	60	350	0.59	350	915.1
S118A	152	135	SS 2 RCCP CL IV	60	90	0.56	90	165.9
S118B	137A	152	SS 2 RCCP CL IV	12	40	1.00	40	52.2
S133	153	154	SS 1 RCCP CL IV	12	10	1.00	10	1.3
S134	154	155	SS 2 RCCP CL IV	24	7	1.00	7	1.0
S135	155	143	SS 2 RCCP CL IV	24	32	1.00	32	6.6
S136	161	147	SS 2 RCCP CL IV	60	107	0.56	107	304.2



SCALE: 1" = 20'

RANDALL ROAD

MATCH LINE STA. 38+00 SHEET NO. 93



DRAINAGE STRUCTURE TABLE STA. 38+00 TO STA. 41+00

DRAINAGE STRUCTURE TABLE STA. 347+25 TO STA. 353+25

NO.	STA.	OFFSET	STRUCTURE TYPE/SIZE	FRAME & GRATE	RIM ELEV EPI/FR	INVERT (N)	INVERT (S)	INVERT (E)	INVERT (W)	INVERT OTHER
138A	38+20	51' LT	C 2		767.54					763.54
138	38+12	39' LT	A 5	1C	768.89	756.71		760.71		
139	38+20	39' LT	A 5	1C	767.73	755.97		756.07		763.41
140	40+91	63' LT	A 4	24	768.50			764.50		
141	40+81	63' LT	A 5	24	768.49			764.45		763.40
141A	40+71	63' LT	A 4	24	768.50			764.50		
142	40+83	9' RT	A 5	11V	768.08	762.98		763.08		
143	40+88	15' RT	A 5	11V	769.15	763.15		763.25		
144	40+78	15' RT	A 5	11V	769.14			763.04		762.94
145	40+80	51' RT	A 5	24	768.74	762.67		762.77		
146	40+70	51' RT	A 5	24	768.72	764.64		762.57		762.47
146A	40+60	51' RT	A 4	24	768.74			764.74		
147	40+63	61' RT	A 7	1C	770.40	756.63	756.73	762.36		
148	39+78	57' RT	A 7	1C	768.97	756.05	756.15	763.30 SW	756.15	763.24 SWW
149	40+24	77' RT	A 4	1C	768.60	763.80	764.00 EX.			
150	38+88	57' RT	A 7	1C	768.53	755.45	755.55			763.86
151	38+25	63.22' RT	A 4	24	767.43			763.43		
152	38+20	57' RT	A 7	1C	767.44	754.97	755.07			763.35 755.40 NW
543	348+65	51' RT	C 2	24	768.83	764.83				
544	348+65	39' RT	A 5	1C	769.03			764.70	756.92	760.83
545	349+09	52' RT	A 5	24	768.68					763.60 NE
546	347+85	9' LT	A 4	11V	770.26			766.04		
547	348+50	9' LT	A 4	11V	768.39	764.83		764.93	765.39	
548	349+00	9' LT	A 4	11V	769.00			765.15		
549	348+75	48.26' LT	A 4	24	768.62			764.62	764.52	
550	351+00	9' RT	A 4	11V	769.05			765.05		
551	351+50	9' RT	A 4	11V	769.35			764.45		764.55
552	350+85	59.38' RT	A 5	24	768.58			765.08	764.08	
552A	351+01	70' RT	C 2	1P	770.05	765.19				
553	351+70	40.21' RT	A 4	24	768.27			765.27		
554	351+85	46.5' RT	A 5	1C	769.80	763.88		764.18	763.68	765.11 NW
555	351+85	12' RT	A 5	1C	770.27	763.24	763.34	765.67	764.10	
556	352+00	9' RT	A 4	11V	769.82			765.82		
557	351+92	51' LT	A 4	24	768.28			765.40	766.40	
557A	352+53	63' LT	C 2	1C	770.50	768.20 EX.				767.02
558	351+85	27' LT	A 5	1C	769.72	765.14	762.75			762.65
559	351+00	51' LT	A 4	24	768.32			764.32		
560	351+00	27' LT	A 5	1C	768.77	764.07		761.59	761.49	
561	353+10	47.77' LT	A 4	24	770.46			766.46		
562	353+00	9' RT	A 4	11V	770.73	768.20	768.10			
563	353+05	39' RT	A 4	24	770.64	765.96	765.86			
564	353+00	46.5' RT	A 4	1C	771.00	765.78		765.75	765.50	

PIPE TABLE STA. 38+00 TO STA. 41+00

PIPE TABLE STA. 347+25 TO STA. 353+25

PIPE NO.	LOCATION FROM STR #	LOCATION TO STR #	DESCRIPTION	DIA (IN)	L (FT)	S (%)	TRENCH L (FT)	BACKFILL VOL (CY)
S119	138	139	SS 2 RCCP CL IV	30	92	0.70	92	152.1
S120	138A	139	SS 2 RCCP CL IV *O' RING	12	13	1.00	13	1.7
S121	140	141	SS 1 RCCP CL IV	12	10	0.50	10	1.3
S121A	141A	141	SS 1 RCCP CL IV	12	10	0.50	10	1.3
S122	141	142	SS 2 RCCP CL IV	24	73	0.44	73	12.8
S123	143	142	SS 2 RCCP CL IV	24	7	1.00	7	1.6
S124	142	144	SS 2 RCCP CL IV	24	7	0.57	7	1.8
S125	144	145	SS 2 RCCP CL IV	24	37	0.46	37	9.8
S126	145	146	SS 2 RCCP CL IV	24	10	1.00	10	2.4
S126A	146A	146	SS 1 RCCP CL IV	12	10	1.00	10	1.3
S127	146	147	SS 2 RCCP CL IV	24	11	1.00	11	11.1
S128	147	148	SS 2 RCCP CL IV	60	85	0.56	85	168.0
S129	149	148	SS 2 RCCP CL IV *O' RING	12	50	1.00	50	22.3
S130	148	150	SS 2 RCCP CL IV	60	90	0.56	90	183.9
S131	150	152	SS 2 RCCP CL IV	60	68	0.56	68	134.4
S132	151	152	SS 1 RCCP CL IV	12	8	1.00	8	1.1
S542	541	544	SS 2 RCCP CL IV	36	145	1.00	145	118.3
S543	543	544	SS 2 RCCP CL IV *O' RING	12	13	1.00	13	1.7
S544	544	148	SS 2 RCCP CL IV	36	77	1.00	77	138.9
S545	545	148	SS 2 RCCP CL IV *O' RING	24	36	1.00	36	5.3
S546	546	547	SS 1 RCCP CL IV	12	65	1.00	65	8.6
S547	548	547	SS 2 RCCP CL IV	12	50	0.44	50	6.6
S548	547	549	SS 2 RCCP CL IV	12	47	0.45	47	6.2
S549	549	150	SS 2 RCCP CL IV	12	66	1.00	66	8.7
S550	550	551	SS 2 RCCP CL IV	12	50	1.00	50	9.7
S551	551	555	SS 2 RCCP CL IV	12	35	1.00	35	11.2
S552	552	554	SS 1 RCCP CL IV	24	91	0.44	91	57.5
S552A	552A	552	SS 1 RCCP CL IV	12	11	1.00	11	2.6
S553	553	554	SS 2 RCCP CL IV	12	16	1.00	16	4.8
S554	554	555	SS 2 RCCP CL IV	24	34	1.00	34	23.2
S555	556	555	SS 2 RCCP CL IV	12	15	1.00	15	2.9
S556	555	558	SS 2 RCCP CL IV	24	39	1.25	39	29.8
S557	557	558	SS 2 RCCP CL IV *O' RING	12	26	1.00	26	5.0
S557A	557A	557	SS 1 RCCP CL IV *O' RING	12	62	1.00	62	12.1
S558	558	560	SS 2 RCCP CL IV	24	85	1.25	85	68.4
S559	559	560	SS 2 RCCP CL IV	12	25	1.00	25	4.9
S560	560	138	SS 2 RCCP CL IV	24 EQ. ELL	62	1.25	62	44.8
S561	561	562	SS 2 RCCP CL IV *O' RING	12	39	0.44	39	11.4
S562	562	563	SS 2 RCCP CL IV	12	31	0.45	31	6.7
S563	563	564	SS 2 RCCP CL IV	12	8	1.00	8	2.9
S564	564	554	SS 2 RCCP CL IV	18	115	1.15	115	78.7

**RANDALL ROAD
 C CURVE #3**

INCLUDED ANGLE = 00°-36'-46"
 RADIUS = 4000.00'
 TANGENT LENGTH = 21.39'
 ARC LENGTH = 42.79'
 CHORD LENGTH = 42.79'
 EXTERNAL SECANT = 0.05'
 MID ORDINATE = 0.06'
 DEGREE OF CURVE = 01°-25'-57"
 PC = 45+43.70
 PT = 45+86.48

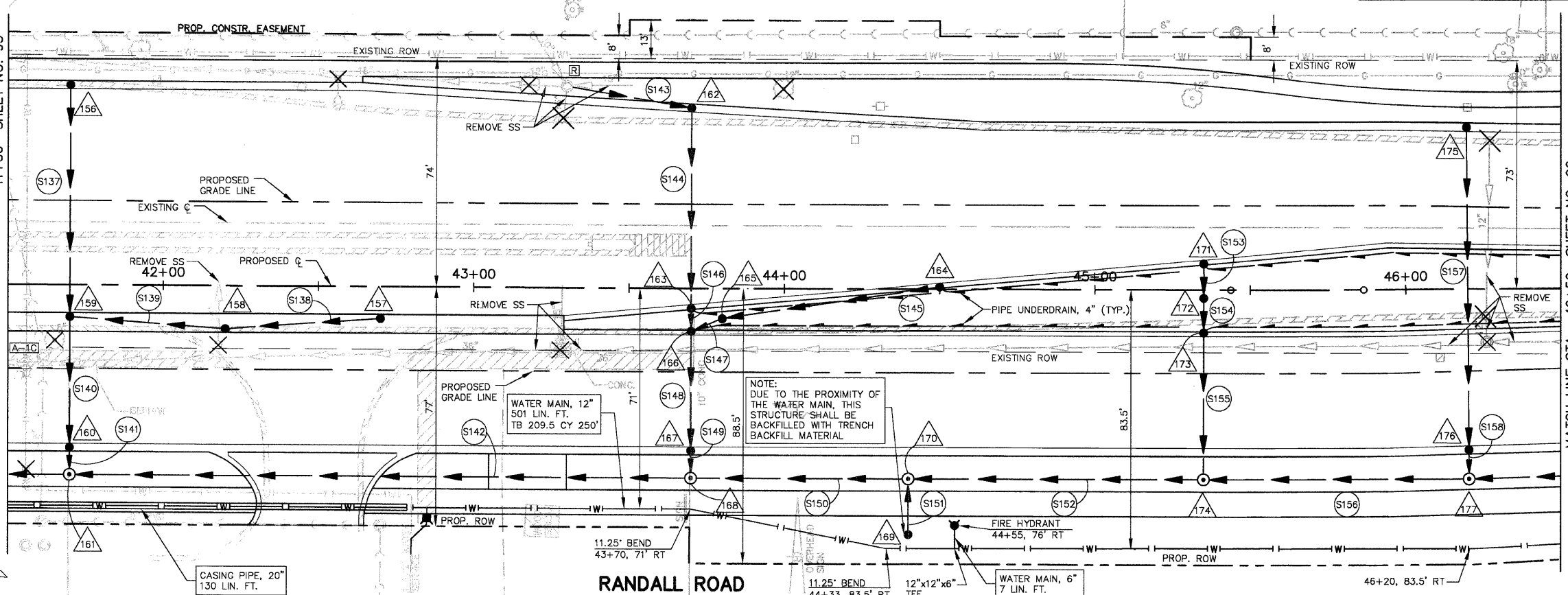
DRAINAGE STRUCTURE TABLE STA. 41+50 TO STA. 46+50

NO.	STA.	OFFSET	STRUCTURE TYPE/SIZE	FRAME & GRATE	RIM ELEV EPI/FR	INVERT (N)	INVERT (S)	INVERT (E)	INVERT (W)
156	41+70	63' LT	A 4		24	769.00			765.00
157	42+70	9' RT	A 4		11V	770.39	766.18		
158	42+20	15' RT	A 4		11V	770.12	765.58	765.88	
159	41+70	9' RT	A 4		11V	769.08		764.88	764.58
160	41+70	51' RT	A 4		24	769.30		764.16	764.06
161	41+70	61' RT	A 7		1C	770.60	757.33	757.43	763.93
162	43+70	56.64' LT	A 4		24	772.27	768.60		768.02
163	43+70	5.29' RT	A 4		11V	772.24		767.39	767.29
164	44+50	1.96' LT	A 4		11V	773.81	769.35		
165	43+80	9.69' RT	A 4		8	772.70	768.50	768.60	
168	43+70	15' RT	A 4		11V	772.85	768.39	767.21	766.97
167	43+70	51' RT	A 4		24	772.41		766.60	766.50
168	43+70	61' RT	A 7		1C	773.90	758.55	758.65	766.37
169	44+40	80' RT	3 MOD*	GRATE*		774.93		764.93	
170	44+40	61' RT	A 7		1C	774.70	759.04	760.04	764.72
171	45+35	9.66' LT	A 4		11V	775.47		771.36	
172	45+35	2.67' RT	A 4		8	775.25		771.25	771.15
173	45+35	15' RT	A 4		11V	775.58		771.04	770.94
174	45+35	61' RT	A 6		1C	776.70	760.76	761.76	770.48
175	46+20	50.42' LT	A 4		24	776.85		772.95	
176	46+20	50.42' RT	A 4		24	776.85		771.83	771.73
177	46+20	61' RT	A 5		1C	777.60	762.53	762.63	771.64

SEE TYPE 3 MODIFIED DRAINAGE STRUCTURE DETAIL

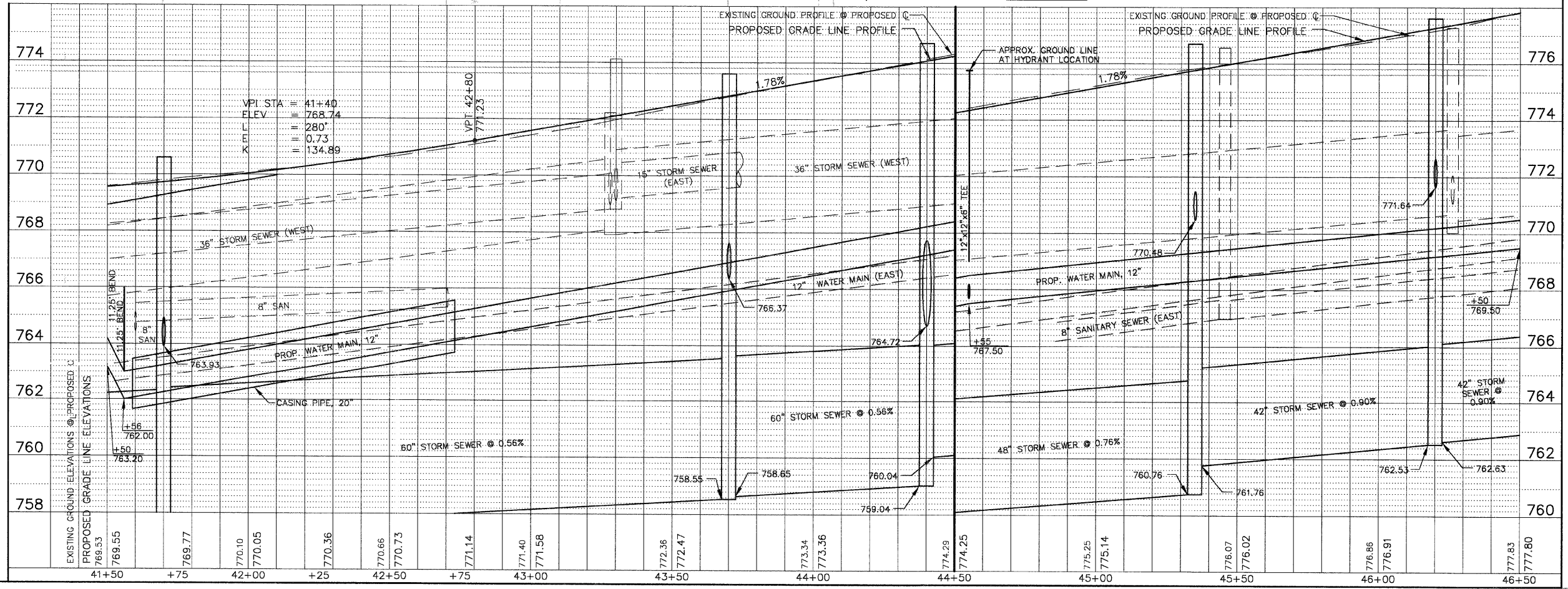
MATCH LINE STA. 41+50
 SHEET NO. 93

MATCH LINE STA. 46+50
 SHEET NO. 96



PIPE TABLE STA. 41+50 TO STA. 46+50

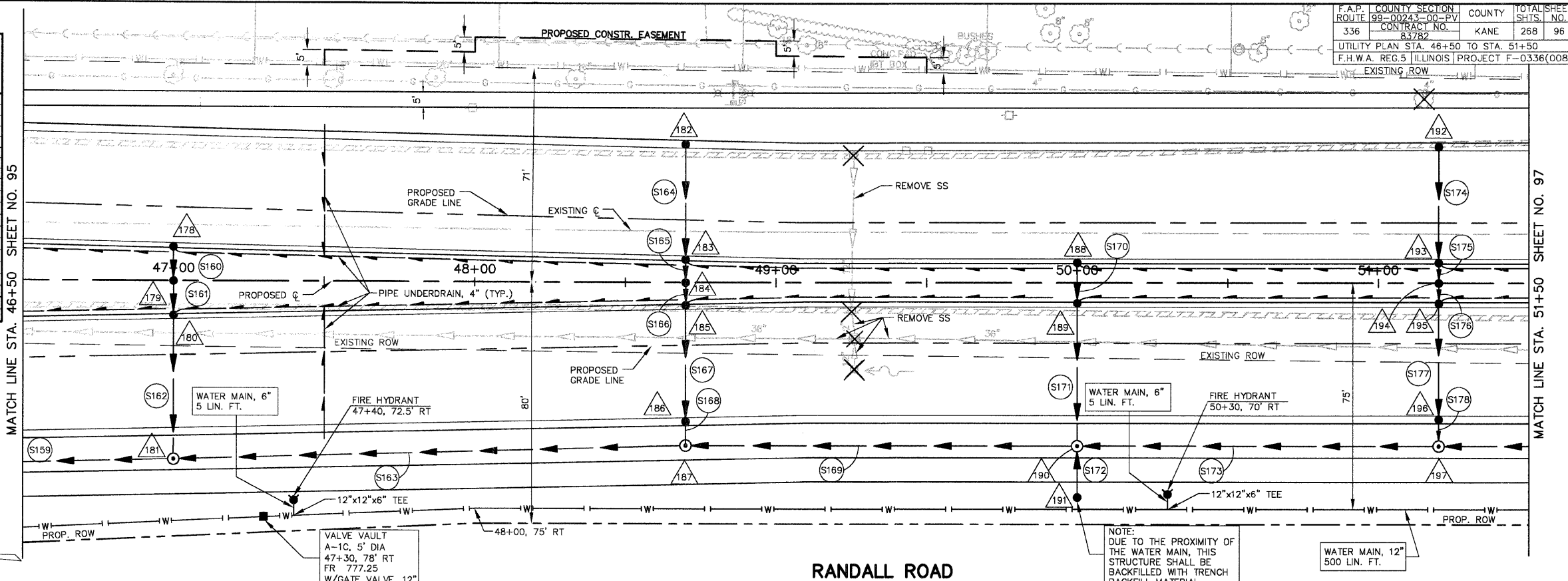
PIPE NO.	LOCATION FROM STR #	TO STR #	DESCRIPTION	DIA (IN)	L (FT)	S (%)	TRENCH BACKFILL L (FT)	VOL (CY)
S137	156	159	SS 2 RCCP CL IV	12	73	0.44	73	9.6
S138	157	158	SS 2 RCCP CL IV	12	50	1.00	50	6.6
S139	158	159	SS 2 RCCP CL IV	12	50	1.00	50	6.6
S140	159	160	SS 2 RCCP CL IV	12	42	1.00	42	5.5
S141	160	161	SS 2 RCCP CL IV	12	9	1.44	2	1.6
S142	168	161	SS 2 RCCP CL IV	60	200	0.56	200	638.6
S143	EX	162	SS 1 RCCP CL IV	15	40	1.00	40	11.3
S144	162	163	SS 2 RCCP CL IV	15	63	1.00	63	13.4
S145	164	165	SS 2 RCCP CL IV	12	75	1.00	75	13.0
S146	163	166	SS 2 RCCP CL IV	15	8	1.00	8	2.6
S147	165	166	SS 2 RCCP CL IV	12	11	1.00	11	
S148	166	167	SS 2 RCCP CL IV	15	37	1.00	37	
S149	167	168	SS 2 RCCP CL IV	15	9	1.44	2	1.8
S150	170	168	SS 3 RCCP CL IV	60	70	0.56	70	255.0
S151	169	170	SS 2 RCCP CL IV	36	19	1.11	19	31.5
*O RING								
S152	174	170	SS 3 RCCP CL IV	48	95	0.76	95	315.0
S153	171	172	SS 2 RCCP CL IV	12	11	1.00	2	0.3
S154	172	173	SS 2 RCCP CL IV	12	11	1.00	2	0.4
S155	173	174	SS 2 RCCP CL IV	12	46	1.00	41	10.5
S156	177	174	SS 3 RCCP CL IV	42	85	0.90	85	266.4
S157	175	176	SS 2 RCCP CL IV	12	102	1.00	102	13.5
S158	176	177	SS 2 RCCP CL IV	12	9	1.00	2	1.4



SCALE: 1" = 20'

DRAINAGE STRUCTURE TABLE STA. 46+50 TO STA. 51+50

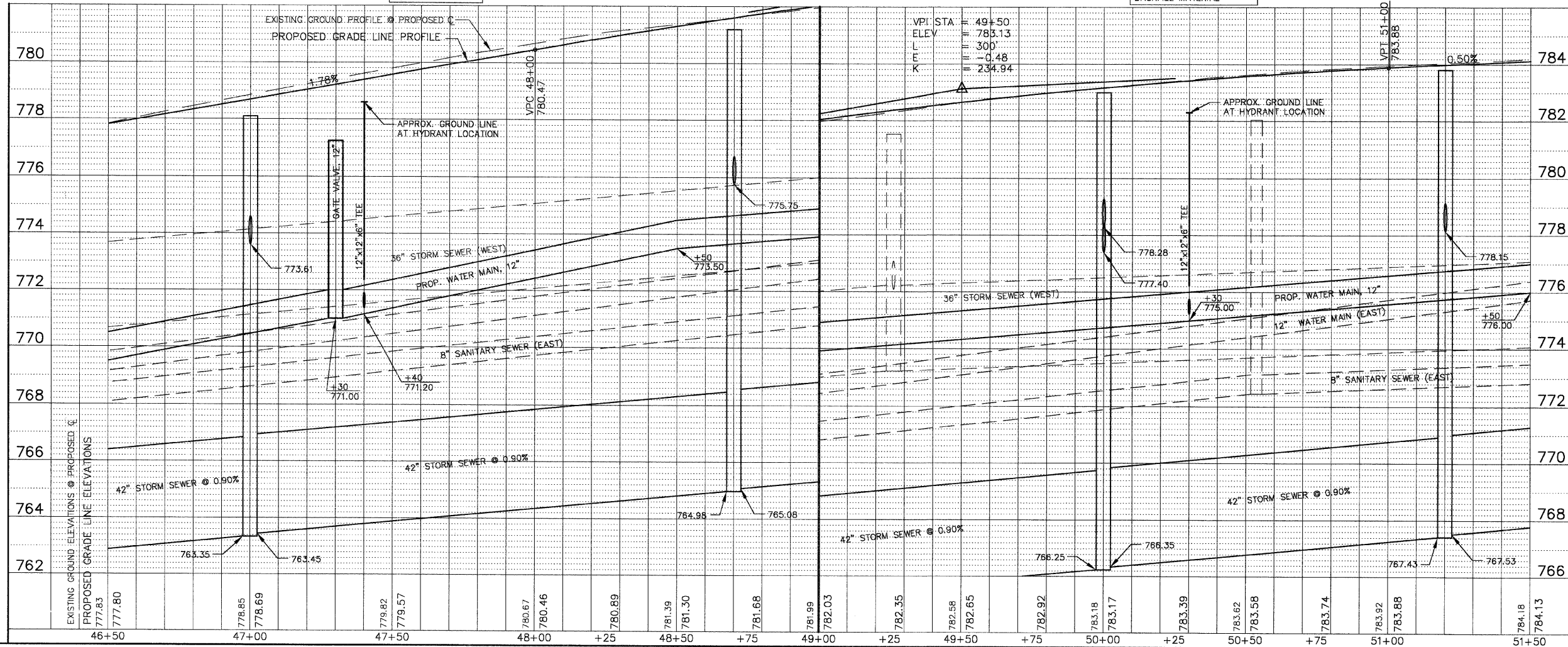
NO.	STA.	OFFSET	STRUCTURE TYPE/SIZE				FRAME & GRATE	RIM ELEV EPI/FR	INVERT (N)	INVERT (S)	INVERT (E)	INVERT (W)
			MH	CB	INL	OTHER						
178	47+00	12.64' LT	A 4				11V 778.51				774.51	
179	47+00	CL	A 4				8 778.73			774.39	774.28	
180	47+00	12.64' RT	A 4				11V 778.51			774.17	774.07	
181	47+00	59' RT	A 5				1C 779.00	763.35	763.45	773.61		
182	48+70	44.87' LT	A 4				24 781.18			777.18		
183	48+70	8.87' LT	A 4				11V 781.42			778.81	778.71	
184	48+70	CL	A 4				8 781.70			778.63	778.53	
185	48+70	8.87' RT	A 4				11V 781.42			778.45	778.35	
186	48+70	44.87' RT	A 4				24 781.18			775.98	775.88	
187	48+70	55' RT	A 5				1C 781.50	764.98	765.08	775.75		
188	50+00	8' LT	A 4				11V 782.99			778.99		
189	50+00	8' RT	A 4				11V 782.99			778.84	778.74	
190	50+00	54' RT	A 5				1C 783.00	766.25	766.35	778.28	777.40	
191	50+00	71' RT	C 2				8 781.60			777.57		
192	51+20	44' LT	A 4				24 783.56			779.09		
193	51+20	8' LT	A 4				11V 783.80			779.19	779.09	
194	51+20	CL	A 4				8 784.10			779.02	778.92	
195	51+20	8' RT	A 4				11V 783.80			778.85	778.75	
196	51+20	44' RT	A 4				24 783.56			778.38	778.28	
197	51+20	54' RT	A 5				1C 784.15	767.43	767.53	778.15		



SCALE: 1" = 20'

PIPE TABLE STA. 46+50 TO STA. 51+50

PIPE NO.	PIPE LOCATION		DESCRIPTION	DIA (IN)	L (FT)	S (%)	TRENCH BACKFILL	
	FROM STR #	TO STR #					L (FT)	VOL (CY)
S159	181	177	SS 3 RCCP CL IV	42	80	0.90	80	259.3
S160	178	179	SS 2 RCCP CL IV	12	12	1.00	2	0.3
S161	179	180	SS 2 RCCP CL IV	12	12	1.00	2	0.4
S162	180	181	SS 2 RCCP CL IV	12	46	1.00	41	5.4
S163	187	181	SS 3 RCCP CL IV	42	170	0.90	170	569.3
S164	182	183	SS 2 RCCP CL IV	12	37	1.00	37	4.9
S165	183	184	SS 2 RCCP CL IV	12	8	1.00	2	0.5
S166	184	185	SS 2 RCCP CL IV	12	8	1.00	2	0.5
S167	185	186	SS 2 RCCP CL IV	12	37	1.00	37	6.4
S168	186	187	SS 2 RCCP CL IV	12	9	1.44	2	1.4
S169	190	187	SS 3 RCCP CL IV	42	130	0.90	130	463.2
S170	188	189	SS 1 RCCP CL IV	12	15	1.00	4	0.6
S171	189	190	SS 2 RCCP CL IV	12	46	1.00	41	5.4
S172	191	190	SS 2 RCCP CL IV	12	17	1.00	12	4.1
O RING								
S173	197	190	SS 3 RCCP CL IV	42	120	0.90	120	431.0
S174	192	193	SS 2 RCCP CL IV	12	37	1.00	37	4.9
S175	193	194	SS 2 RCCP CL IV	12	7	1.00	2	0.5
S176	194	195	SS 2 RCCP CL IV	12	7	1.00	2	0.5
S177	195	196	SS 2 RCCP CL IV	12	37	1.00	37	6.4
S178	196	197	SS 2 RCCP CL IV	12	9	1.44	2	1.5

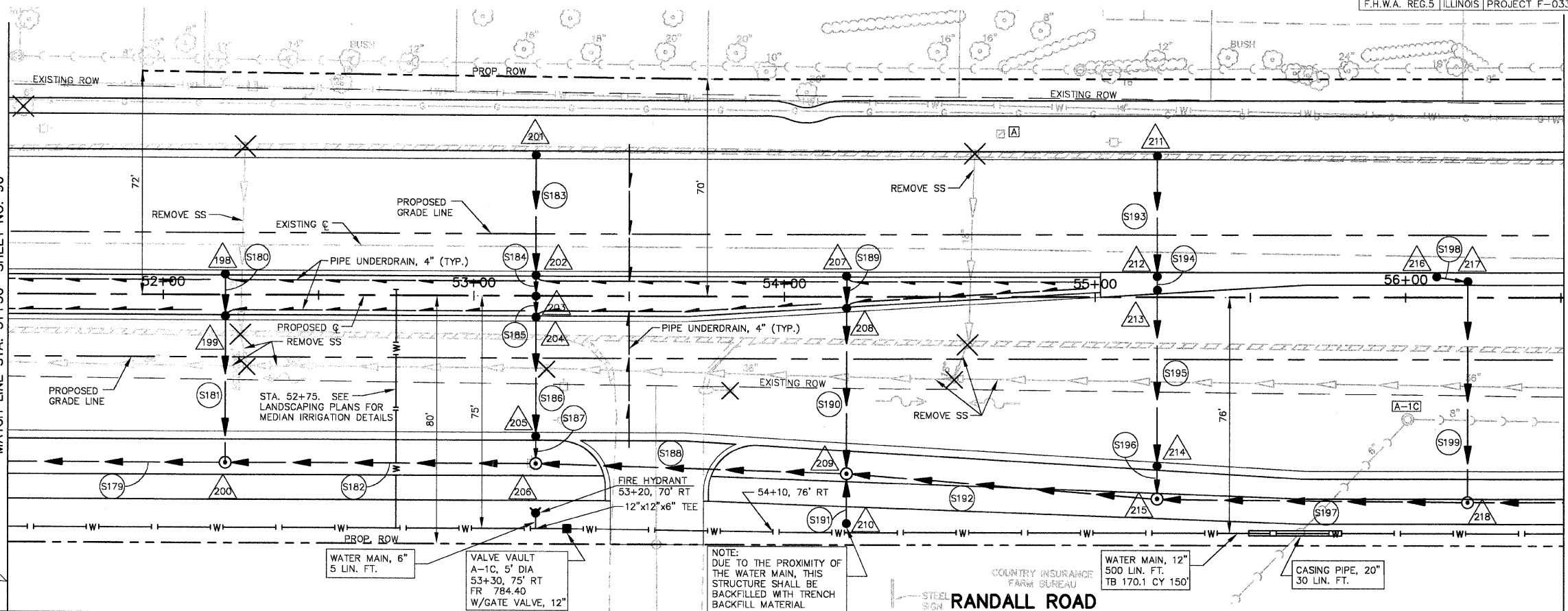


DRAINAGE STRUCTURE TABLE STA. 51+50 TO STA. 56+50

NO.	STA.	OFFSET	STRUCTURE TYPE/SIZE				FRAME & GRATE	RIM ELEV EPI/FR	INVERT (N)	INVERT (S)	INVERT (E)	INVERT (W)
			MH	CB	INL	OTHER						
198	52+20	8' LT	A 4				11V 784.30				780.30	
199	52+20	8' RT	A 4				11V 784.30			780.15	780.05	
200	52+20	54' RT	A 5				1C 784.50	788.43	788.53	779.59		
201	53+20	44' LT	A 4				24 784.56				780.56	
202	53+20	8' LT	A 4				11V 784.80			780.19	780.09	
203	53+20	CL	A 4				8 785.10			780.02	779.92	
204	53+20	8' RT	A 4				11V 784.80			779.85	779.75	
205	53+20	44' RT	A 4				24 784.56			779.38	779.28	
206	53+20	54' RT	A 5				1C 784.90	789.43	789.53	779.15		
207	54+20	8' LT	A 4				11V 785.30				781.30	
208	54+20	4.88' RT	A 4				11V 785.24			781.19	781.09	
209	54+20	57' RT	A 5				1C 784.80	770.43	770.53	780.57	778.64	
210	54+20	73' RT	C 2				8 782.80				778.80	
211	55+20	44' LT	A 4				24 785.56				781.56	
212	55+20	8' LT	A 4				11V 785.80			781.19	781.09	
213	55+20	1.12' LT	A 4				11V 785.62			781.04	780.94	
214	55+20	53.12' RT	A 4				24 785.33			780.39	780.29	
215	55+20	85' RT	A 5				1C 785.10	771.43	771.53	780.13		
216	56+10	8' LT	A 4				11V 786.25			782.16		
217	56+20	4' LT	A 4				11V 786.06			782.06		
218	56+20	86' RT	A 5				1C 786.00	771.78	771.78	781.25		

MATCH LINE STA. 51+50 SHEET NO. 96

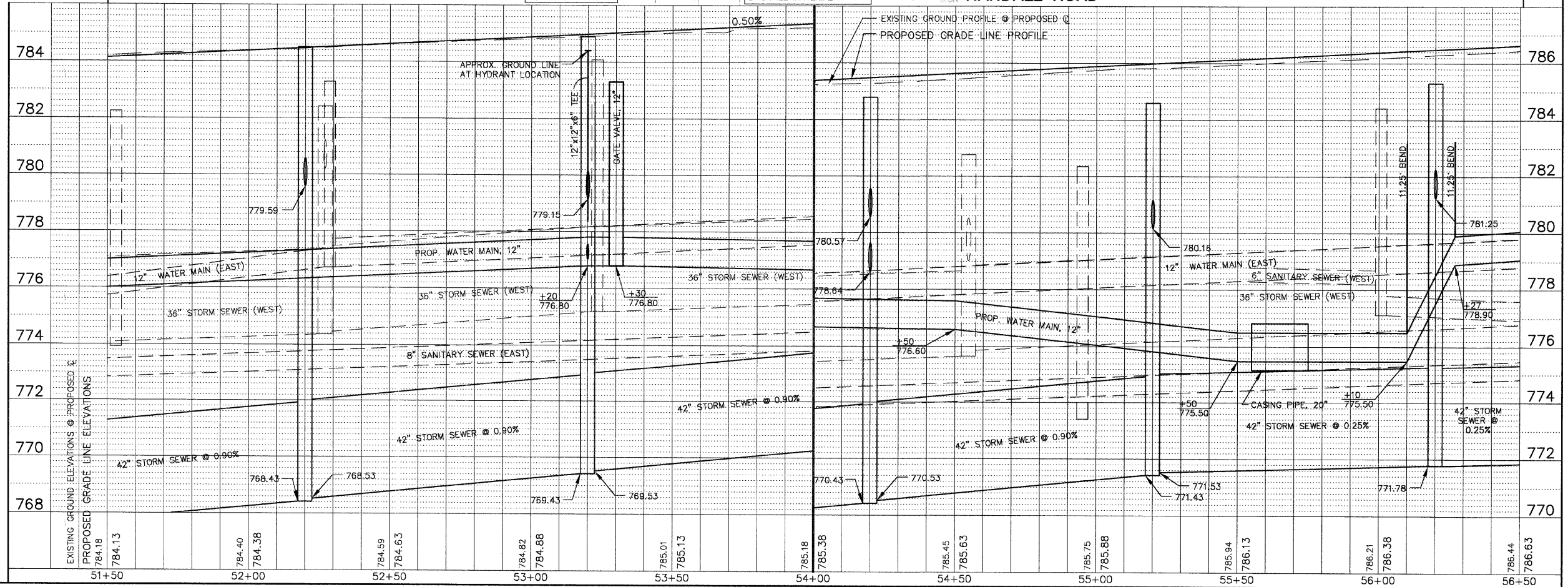
MATCH LINE STA. 56+50 SHEET NO. 98



PIPE TABLE STA. 51+50 TO STA. 56+50

PIPE NO.	LOCATION FROM STR #	LOCATION TO STR #	DESCRIPTION	DIA (IN)	L (FT)	S (%)	TRENCH BACKFILL	
							L (FT)	VOL (CY)
S179	200	197	SS 3 RCCP CL IV	42	100	0.90	100	351.1
S180	198	199	SS 1 RCCP CL IV	12	15	1.00	4	0.6
S181	199	200	SS 2 RCCP CL IV	12	46	1.00	41	5.4
S182	206	200	SS 3 RCCP CL IV	42	100	0.90	100	340.4
S183	201	202	SS 2 RCCP CL IV	12	37	1.00	37	4.9
S184	202	203	SS 2 RCCP CL IV	12	7	1.00	2	0.5
S185	203	204	SS 2 RCCP CL IV	12	7	1.00	2	0.5
S186	204	205	SS 2 RCCP CL IV	12	37	1.00	37	6.4
S187	205	206	SS 2 RCCP CL IV	12	9	1.44	2	1.5
S188	209	206	SS 3 RCCP CL IV	42	100	0.90	100	312.4
S189	207	208	SS 1 RCCP CL IV	12	11	1.00	2	0.3
S190	208	209	SS 2 RCCP CL IV	12	52	1.00	47	6.2
S191	210	209	SS 2 RCCP CL IV	12	16	1.00	12	4.6
"O" RING								
S192	215	209	SS 3 RCCP CL IV	42	100	0.90	100	286.8
S193	211	212	SS 2 RCCP CL IV	12	37	1.00	37	4.9
S194	212	213	SS 2 RCCP CL IV	12	5	1.00	5	0.7
S195	213	214	SS 2 RCCP CL IV	12	55	1.00	55	7.3
S196	214	215	SS 2 RCCP CL IV	12	11	1.44	2	0.8
S197	218	215	SS 2 RCCP CL IV	42	100	0.25	100	275.8
S198	216	217	SS 1 RCCP CL IV	12	10	1.00	10	1.3
S199	217	218	SS 2 RCCP CL IV	12	71	1.00	71	9.4

SCALE: 1" = 20'



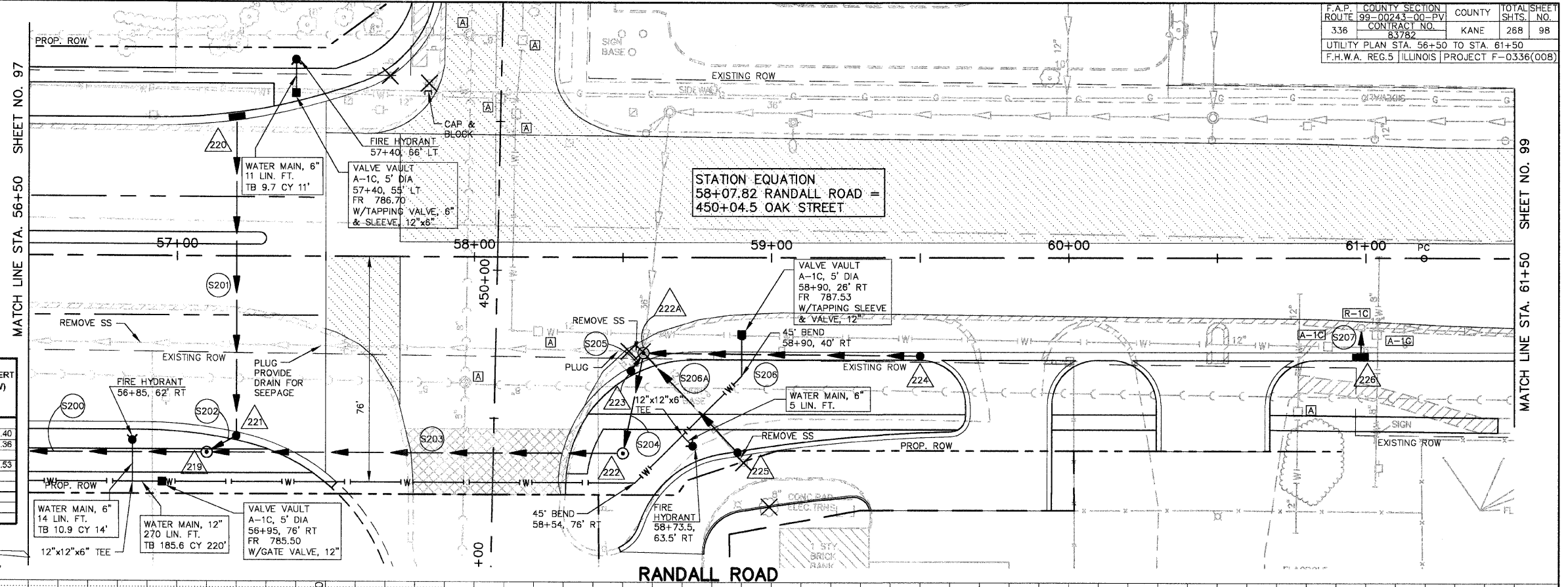
**RANDALL ROAD
 @ CURVE #4**
 RADIUS = 20000.00'
 ARC LENGTH = 579.00'
 CHORD LENGTH = 578.98'
 TANGENT LENGTH = 289.52'
 DEGREE OF CURVE = 0°-17'-11"
 MID ORDINATE = 2.10'
 EXTERNAL SECANT = 2.10'
 INCLUDED ANGLE = 01°-39'-31"
 PC = 61+19.52
 PT = 66+98.52

DRAINAGE STRUCTURE TABLE STA. 56+50 TO STA. 61+50

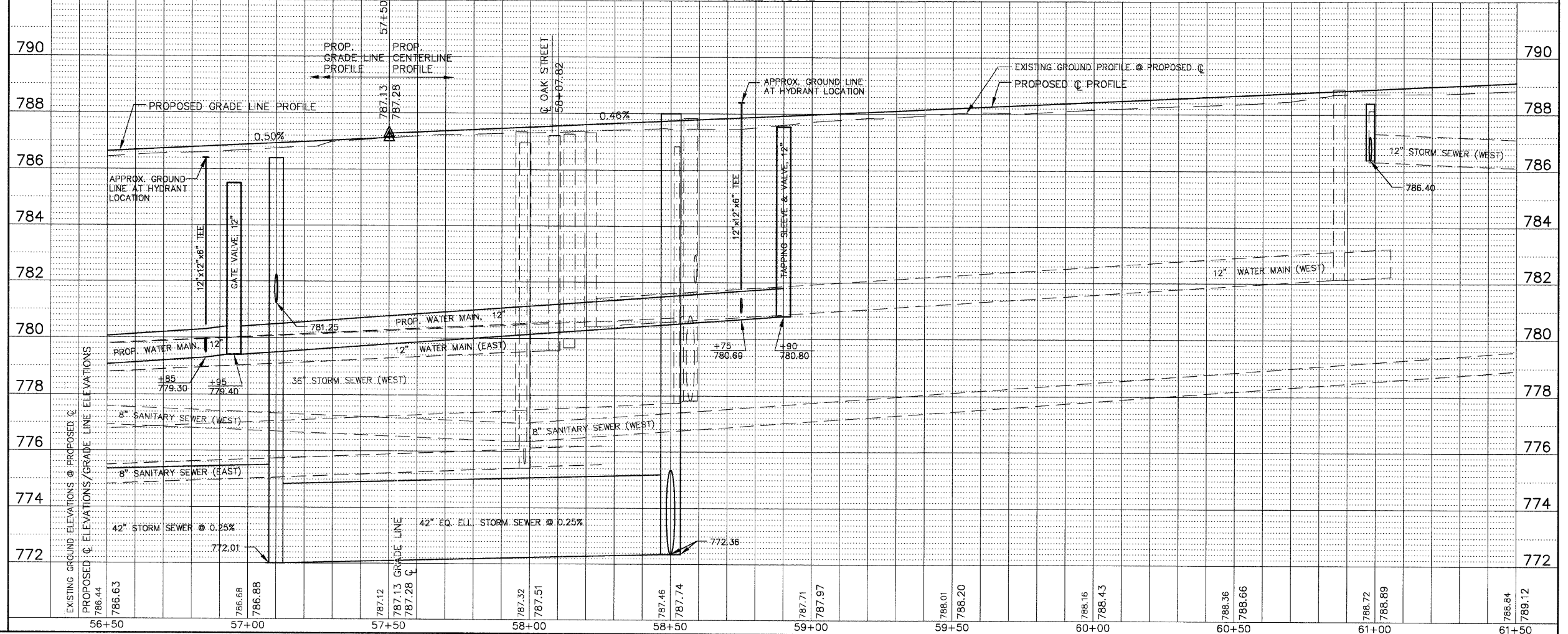
NO.	STA.	OFFSET	STRUCTURE TYPE/SIZE	FRAME & GRATE	RIM ELEV. EP/FR	INVERT (N)	INVERT (S)	INVERT (E)	INVERT (W)
219	57+10	66' RT	A 7	1C	786.40	772.01	772.01	781.25	783.40
220	57+20	45.69' LT	A 2	24	786.53				783.40
221	57+20	58.23' RT	A 4	24	786.24			782.33	781.36
222	58+50	66' RT	A 7	1C	788.00	772.36		772.36	
222A	58+57	32.5' RT	A 5	1C	787.28	783.12	782.79	777.83 EX	772.53
223	58+52	37.33' RT	A 4	24	787.19		783.19		SW 783.28
224	59+50	32' RT	A 4	24	787.72	783.72			
225	58+90	66.6' RT	A 4	11V	788.10			783.75	
226	60+98	32' RT	A 2	24	788.40			786.40	

PIPE TABLE STA. 56+50 TO STA. 61+50

PIPE NO.	LOCATION FROM STR # TO STR #	DESCRIPTION	DIA (IN)	L (FT)	S (%)	TRENCH BACKFILL	
						L (FT)	VOL (CY)
S200	219	SS 3 RCCP CL IV	42	90	0.25	90	253.1
S201	220	SS 1 RCCP CL IV	12	107	1.00	107	14.1
S202	221	SS 2 RCCP CL IV	12	11	1.00	11	7.3
S203	222	SS 3 RCCP CL IV	42	140	0.25	140	391.5
S204	222A	SS 3 RCCP CL IV	36	34	0.50	24	84.8
S205	223	SS 1 RCCP CL IV	12	7	1.00	7	0.9
S206	224	SS 2 RCCP CL IV	12	93	1.00	93	12.3
S206A	225	SS 1 RCCP CL IV	12	47	1.00	20	6.0
S207	226	SS 1 DI CL 52	10	9	0.56		



SCALE: 1" = 20'

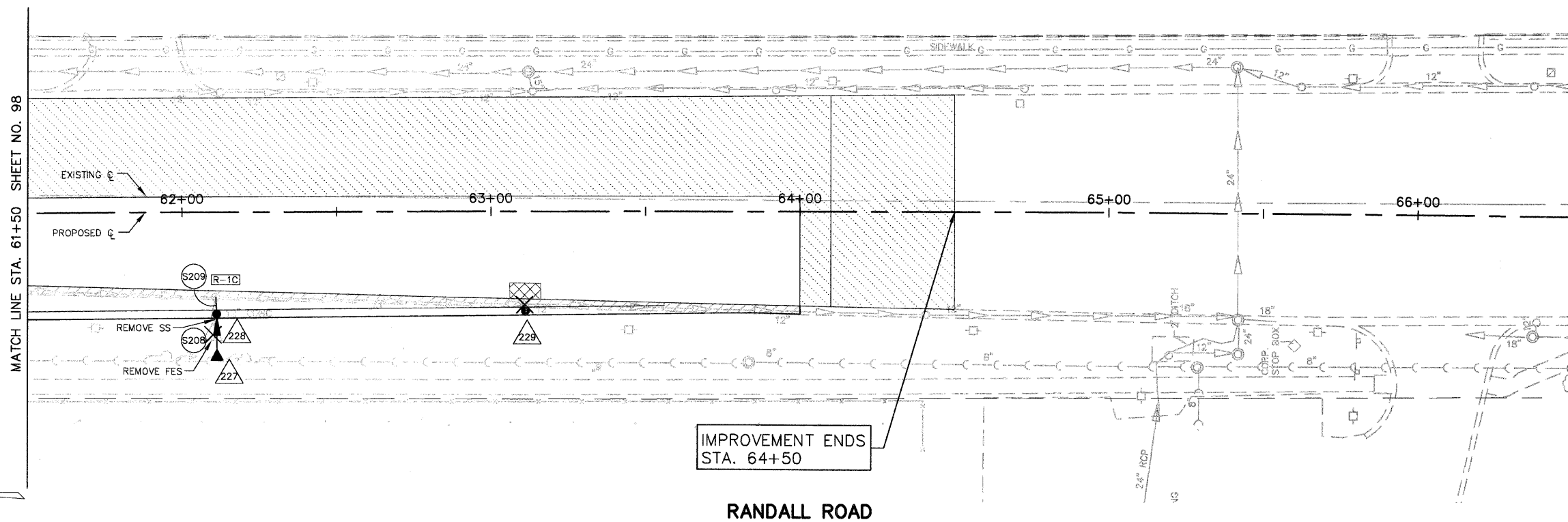


DRAINAGE STRUCTURE TABLE STA. 61+50 TO STA. 66+50

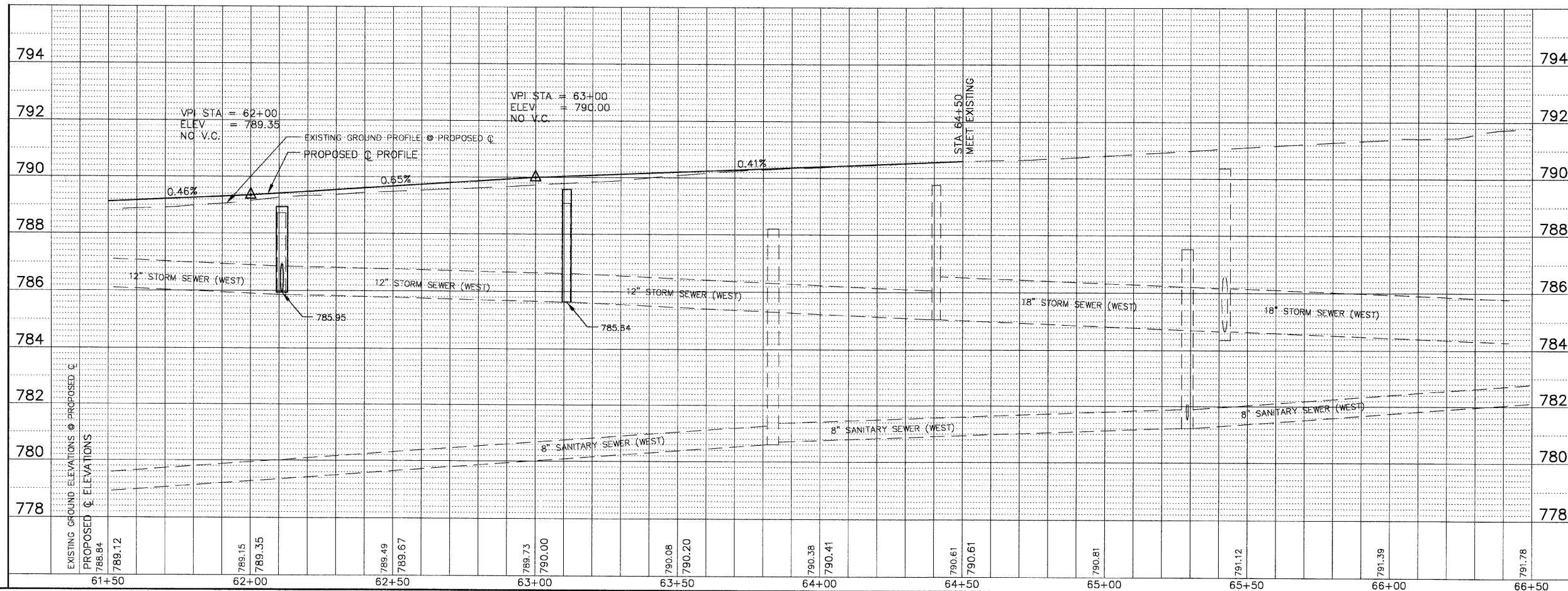
NO.	STA.	OFFSET	STRUCTURE TYPE/SIZE				FRAME & GRATE	RIM ELEV EP/FR	INVERT (N)	INVERT (S)	INVERT (E)	INVERT (W)
			MH	CB	INL	OTHER						
227	62+11	48.0' RT				PRC FES 12					786.15	
228	62+11	31.79' RT	A 4				24	788.94		785.95	785.95	
229	63+11	31.08' RT	A 4				24	789.58	785.64 EX	785.64 EX		

PIPE TABLE STA. 61+50 TO STA. 66+50

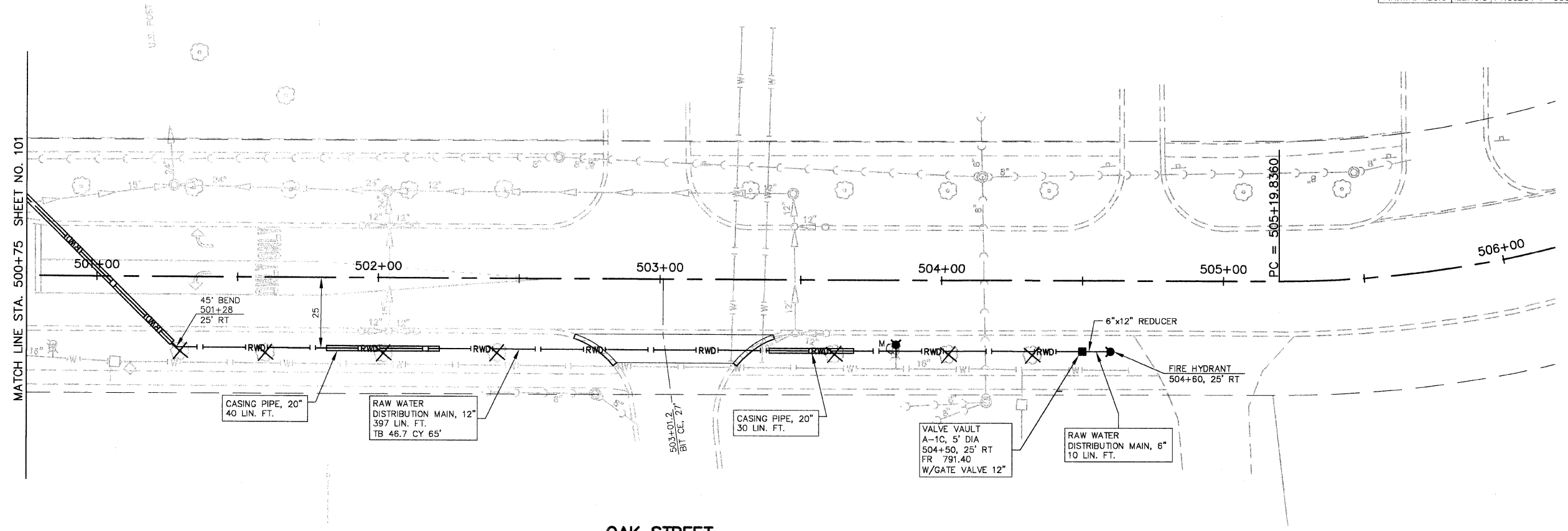
PIPE NO.	LOCATION FROM STR #	TO STR #	DESCRIPTION	DIA (IN)	L (FT)	S (%)	TRENCH BACKFILL	
							L (FT)	VOL (CY)
S208	227	228	SS 1 RCCP IV	12	9	1.35	2	0.4
S209	228	EX	SS 1 RCCP IV	12	5	1.35	5	0.7



SCALE: 1" = 20'

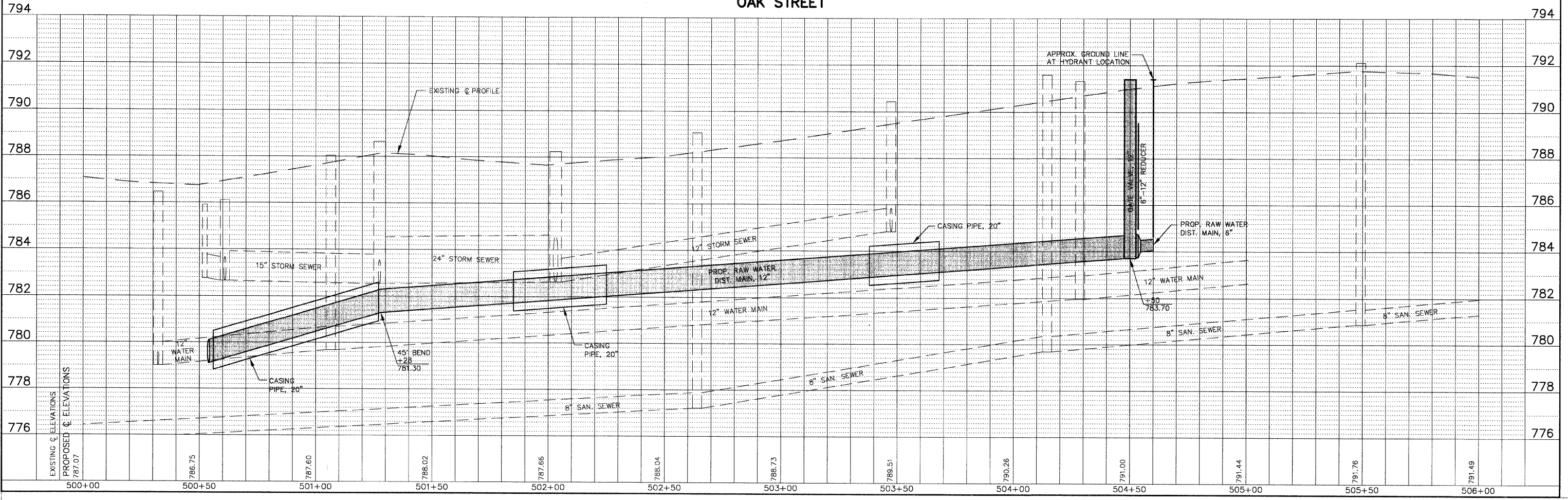


F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
	STATE SECTION		100
	83782		
OAK STREET UTILITY PLAN			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



SCALE: 1" = 20'

OAK STREET



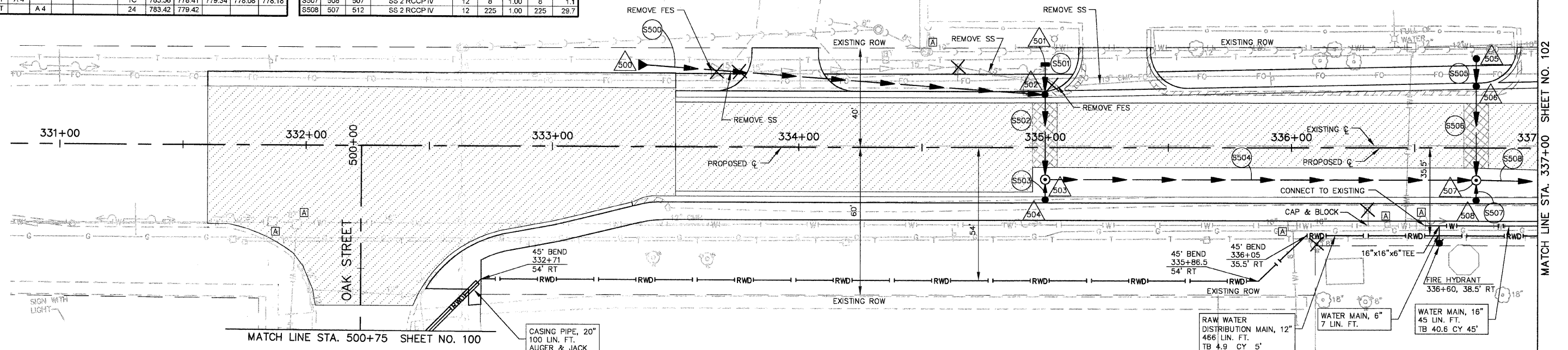
EXISTING C ELEVATIONS	787.07
PROPOSED C ELEVATIONS	787.07

500+00	500+50	501+00	501+50	502+00	502+50	503+00	503+50	504+00	504+50	505+00	505+50	506+00
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DRAINAGE STRUCTURE TABLE STA. 331+00 TO STA. 337+00												
NO.	STA.	OFFSET	STRUCTURE TYPE/SIZE				FRAME & GRATE	RIM ELEV EP/FR	INVERT (N)	INVERT (S)	INVERT (E)	INVERT (W)
			MH	CB	INL	OTHER						
500	333+35	33' LT				PRC FES 12						784.70
501	335+00	33.5' LT				A 2	8	785.24		783.00		
502	335+00	20.2' LT	A 4				24	785.24	782.88	780.37		780.47
503	335+00	13' RT	A 4			1C	8	785.38	780.03	781.16	779.93	
504	335+00	20' RT	A 4				24	785.24	781.24			
505	336+75	37' LT	C 2				8	783.00		779.00		
506	336+75	23.7' LT	A 4				24	783.35	778.88	778.78		
507	336+75	13' RT	A 4			1C	8	783.56	778.41	779.34	778.08	778.18
508	336+75	20' RT	A 4				24	783.42	779.42			

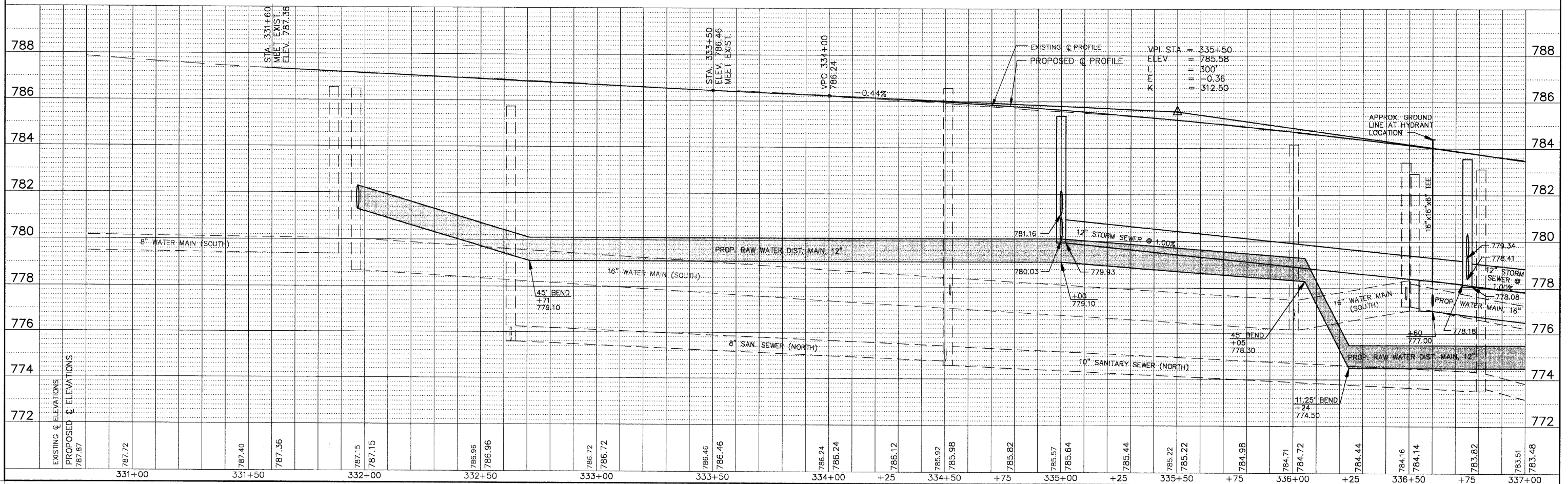
PIPE TABLE STA. 331+00 TO STA. 337+00									
PIPE NO.	LOCATION FROM STR #	LOCATION TO STR #	DESCRIPTION	DIA (IN)	L (FT)	S (%)	TRENCH BACKFILL		
							L (FT)	VOL (CY)	
S500	500	502	SS 2 RCCP IV	12	159	2.56	159	37.3	
S501	501	502	SS 1 RCCP IV	12	12	1.00	10	1.3	
S502	502	503	SS 2 RCCP IV	12	34	1.00	34	4.5	
S503	504	503	SS 1 RCCP IV	12	8	1.00	8	1.1	
S504	503	507	SS 2 RCCP IV	12	175	1.00	175	30.3	
S505	505	506	SS 2 RCCP IV "O" RING	12	12	1.00	12	3.6	
S506	506	507	SS 2 RCCP IV	12	37	1.00	37	4.9	
S507	508	507	SS 2 RCCP IV	12	8	1.00	8	1.1	
S508	507	512	SS 2 RCCP IV	12	225	1.00	225	29.7	

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
CONTRACT NO.	83782		101
UTILITY PLAN STA. 331+00 TO STA. 337+00			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(00B)			



SCALE: 1" = 20'

ILLINOIS ROUTE 64



DRAINAGE STRUCTURE TABLE STA. 337+00 TO STA. 342+25

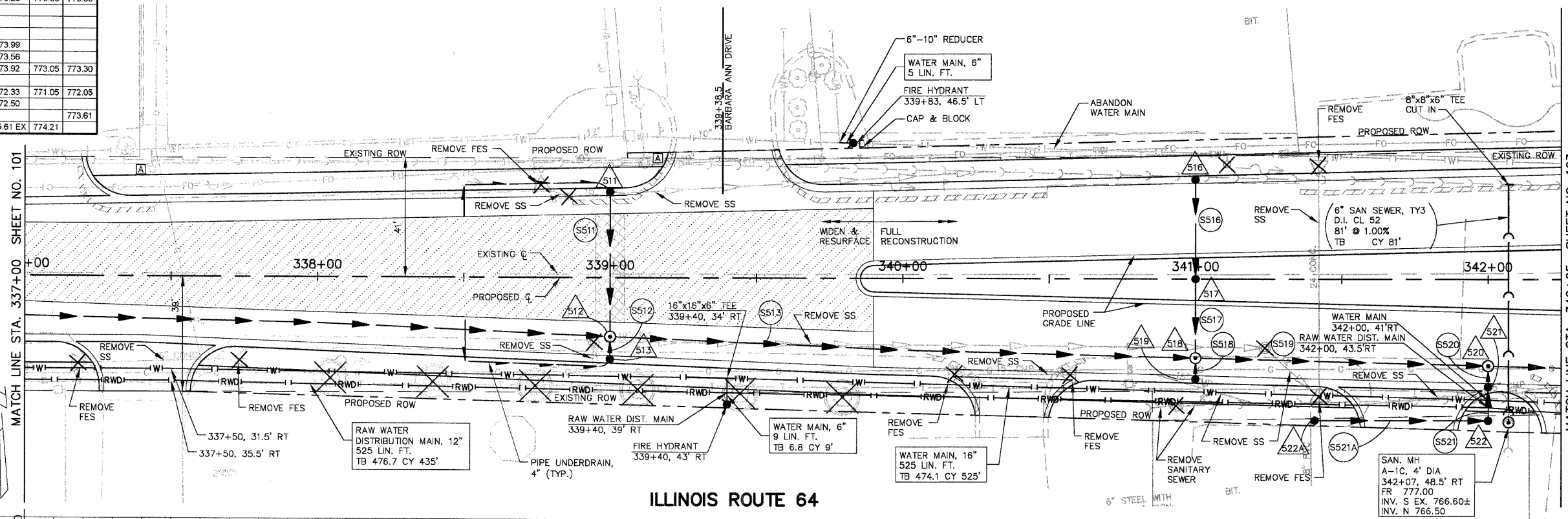
NO.	STA.	OFFSET	STRUCTURE TYPE/SIZE			FRAME & GRATE	RIM ELEV EP/FR	INVERT (N)	INVERT (S)	INVERT (E)	INVERT (W)
			MH	CB	INL						
509	NOT USED										
510	NOT USED										
511	339+00	28.2' LT		A 4		24	780.30		776.30		
512	339+00	20.0' RT	A 4			1C	780.46	775.81	776.26	775.30	775.83
513	339+00	26.4' RT		A 4		24	780.33	776.33			
514	NOT USED										
515	NOT USED										
516	341+00	32.75' LT		A 4		24	777.99		773.99		
517	341+00	CL		A 4							
518	341+00	26.75' RT	A 4			1P	778.51	773.66	773.56		
519	341+00	32.75' RT		A 4		24	777.98	773.99			
520	342+00	29.25' RT	A 5			1C	777.04		772.33	771.05	772.05
521	342+00	35.25' RT		A 5		24	776.92	772.40	772.50		
522	342+00	48' RT		A 5		8	776.90	772.61			773.61
522A	341+39.5	48' RT		C 2		8	777.10	775.61 EX	774.21		

*LOCATE TO INTERCEPT EXIST. 8" PVC SS

PIPE TABLE STA. 337+00 TO STA. 342+25

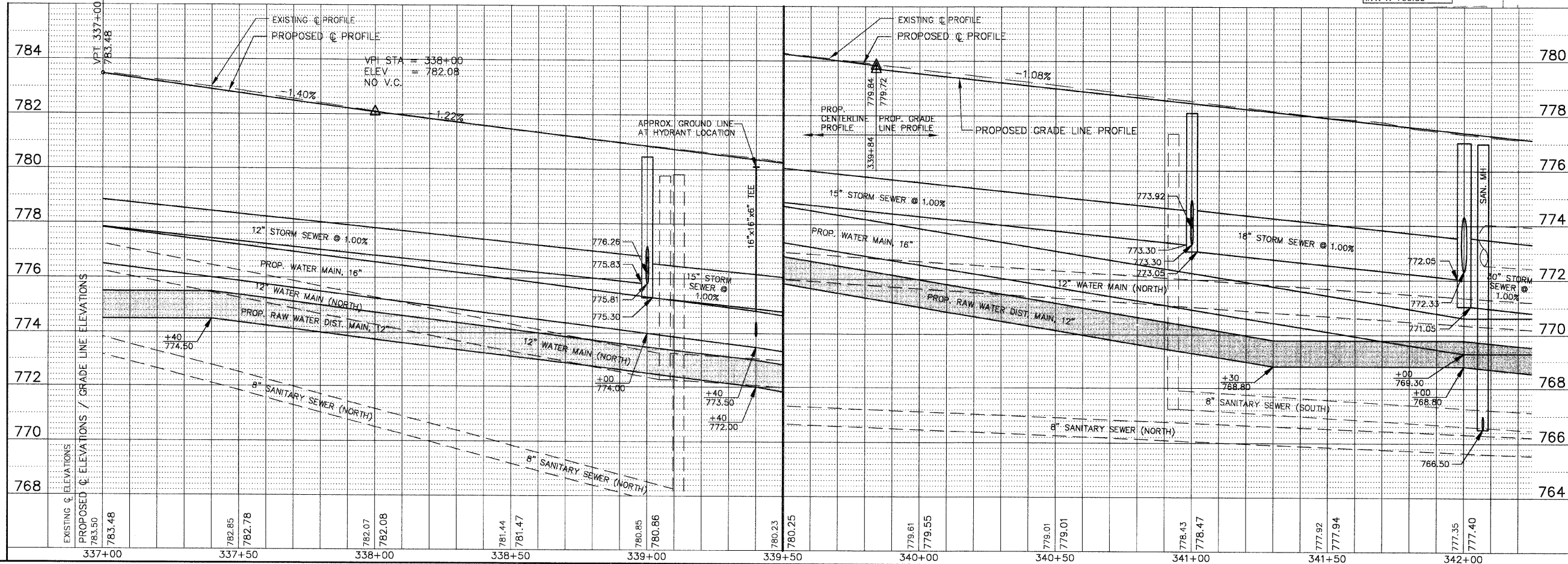
PIPE NO.	LOCATION FROM STR #	LOCATION TO STR #	DESCRIPTION	DIA (IN)	L (FT)	S (%)	TRENCH BACKFILL	
							L (FT)	VOL (CY)
S509	NOT USED							
S510	NOT USED							
S511	511	512	SS 2 RCCP IV	12	49	1.00	49	6.5
S512	513	512	SS 1 RCCP IV "O" RING	12	7	1.00	7	0.9
S513	512	518	SS 2 RCCP IV	15	200	1.00	200	24.2
S514	NOT USED							
S515	NOT USED							
S516	516	517	SS 2 RCCP IV	12	33	1.00	33	4.4
S517	517	518	SS 2 RCCP IV	12	26	1.00	26	3.4
S518	519	518	SS 1 RCCP IV "O" RING	12	7	1.00	7	0.9
S519	518	520	SS 2 RCCP IV	18	100	1.00	100	10.5
S520	521	520	SS 1 RCCP IV "O" RING	24	7	1.00	7	0.8
S521	522	521	SS 1 RCCP IV "O" RING	24	11	1.00	11	3.3
S521A	522A	522	SS 1 DI CL S2	12	60	1.00	60	7.9

F.A.P. COUNTY SECTION	ROUTE 99-00243-00-PV	COUNTY	TOTAL SHEET
336	CONTRACT NO. 83782	KANE	268 102
UTILITY PLAN STA. 337+00 TO STA. 342+25			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(00B)			

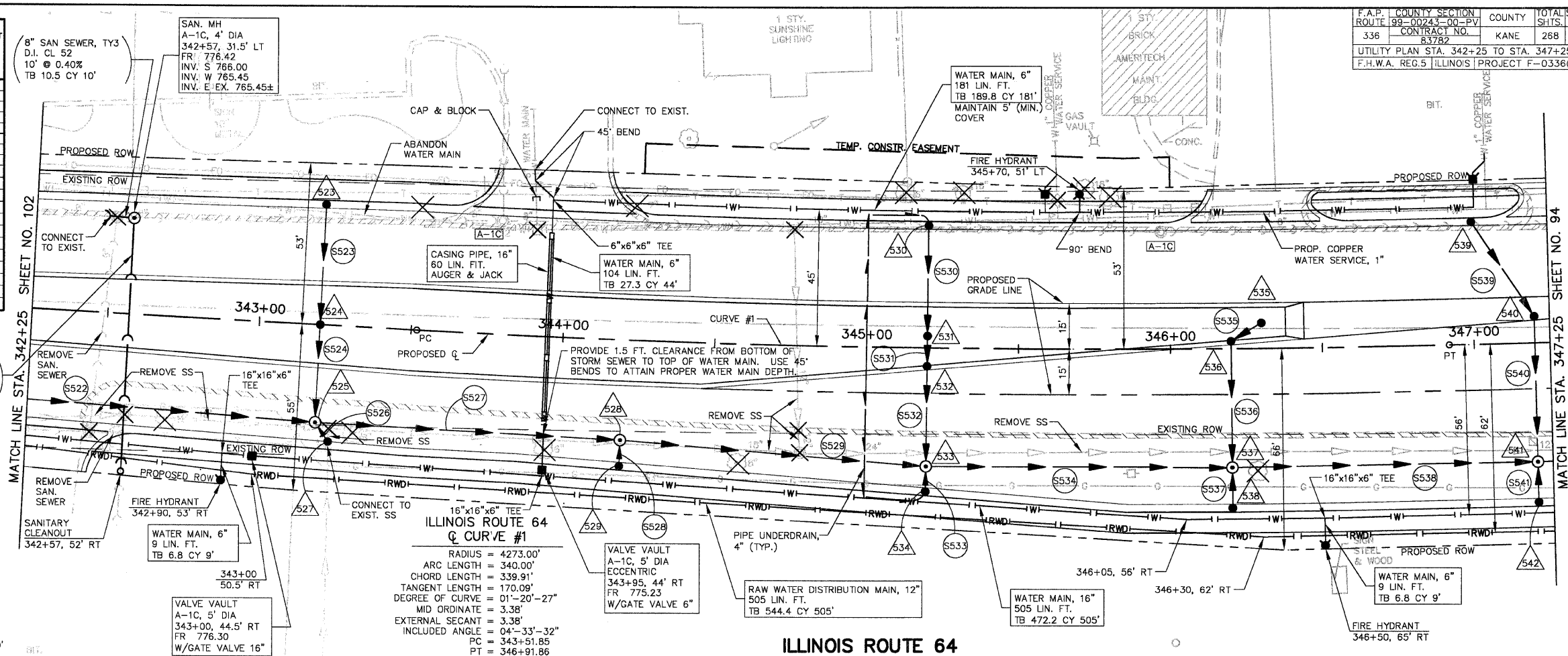


ILLINOIS ROUTE 64

SCALE: 1" = 20'

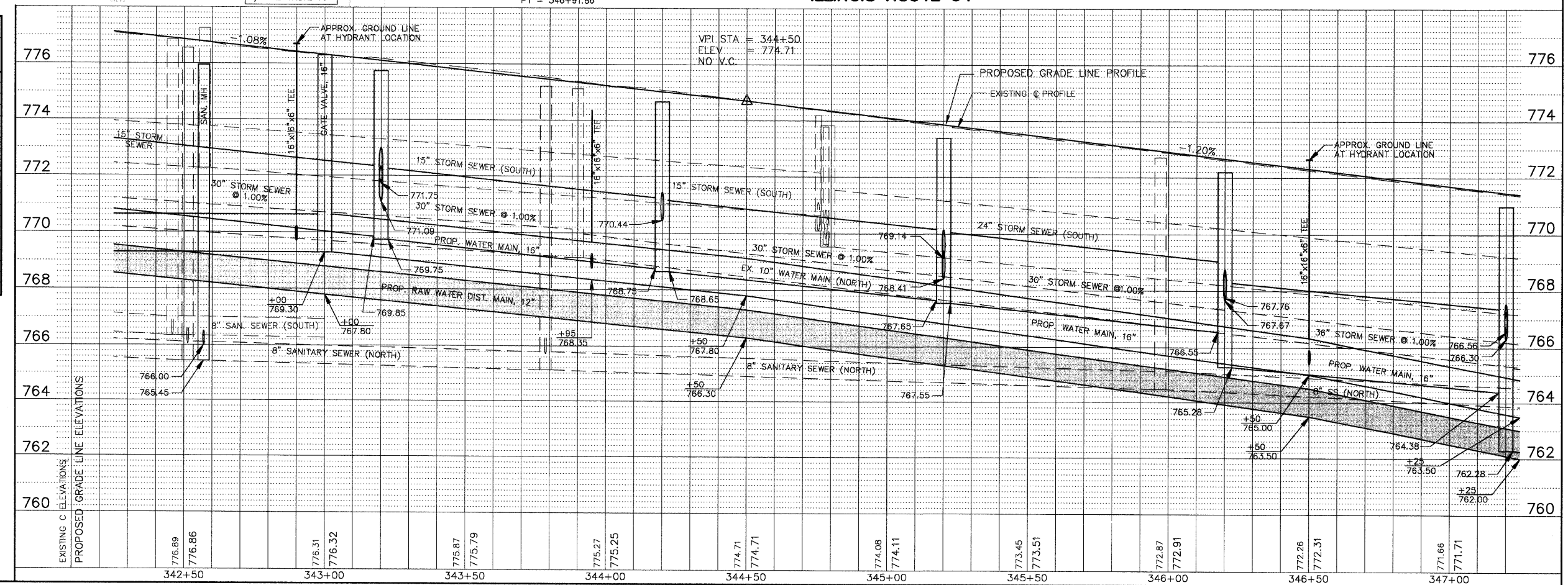


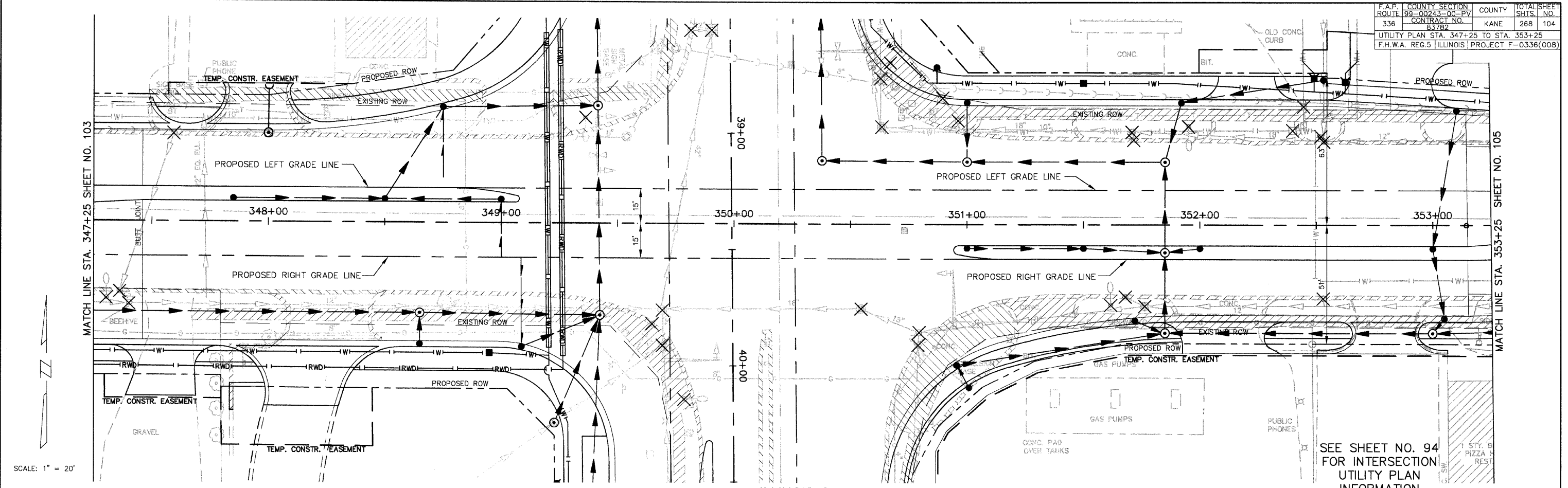
NO.	STA.	OFFSET	STRUCTURE			RIM ELEV EPI/FR	INVERT (N)	INVERT (S)	INVERT (E)	INVERT (W)
			TYPE/SIZE	FRAME & GRATE	INCL					
523	343+20	38.25' LT	A 4"	24	775.63		772.05	772.44		
524	343+20	CL	A 4"	1P	776.04		772.05	771.41		
525	343+20	32.25' RT	A 5"	1C	775.75		771.09	771.75	769.75	769.85
526	NOT USED									
527	343+24.5	38.36' RT	A 4"	24	775.59		771.63	772.19 EX		
528	344+20	33.0' RT	A 5"	1C	774.67		770.44	770.44	768.85	768.75
529	344+20	40.37' RT	C 2	24	774.52		770.52			
530	345+20	39.0' LT	A 4"	24	773.39		769.93			
531	345+20	4.0' LT	A 4"	1P	773.67		769.57	768.93		
532	345+20	7.18' RT	A 4"	SPL 1	773.75		768.83	768.73		
533	345+20	38.0' RT	A 5"	1C	773.39		768.41	769.14	767.55	767.65
534	345+20	45.99' RT	C 2	24	773.22		769.22			
535	346+30	8.5' LT	A 4"	1P	772.29		768.29			
536	346+20	1.31' LT	A 4"	SPL 1	772.43		768.17	768.07		
537	346+20	39.0' RT	A 5"	1C	772.19		767.67	767.76	765.28	765.55
538	346+20	51.0' RT	C 2	24	771.89		767.89			
539	347+00	39.0' LT	A 4"	24	771.23		767.77			
540	347+20	7.54' LT	A 4"	11V	771.13		767.41	766.77		
541	347+20	39.0' RT	A 5"	1C	770.99		766.30	766.56	762.28	764.38
542	347+20	51.0' RT	C 2	24	770.69		766.69			



F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
UTILITY PLAN STA. 342+25 TO STA. 347+25	CONTRACT NO. 83782		103
	F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(OOB)		

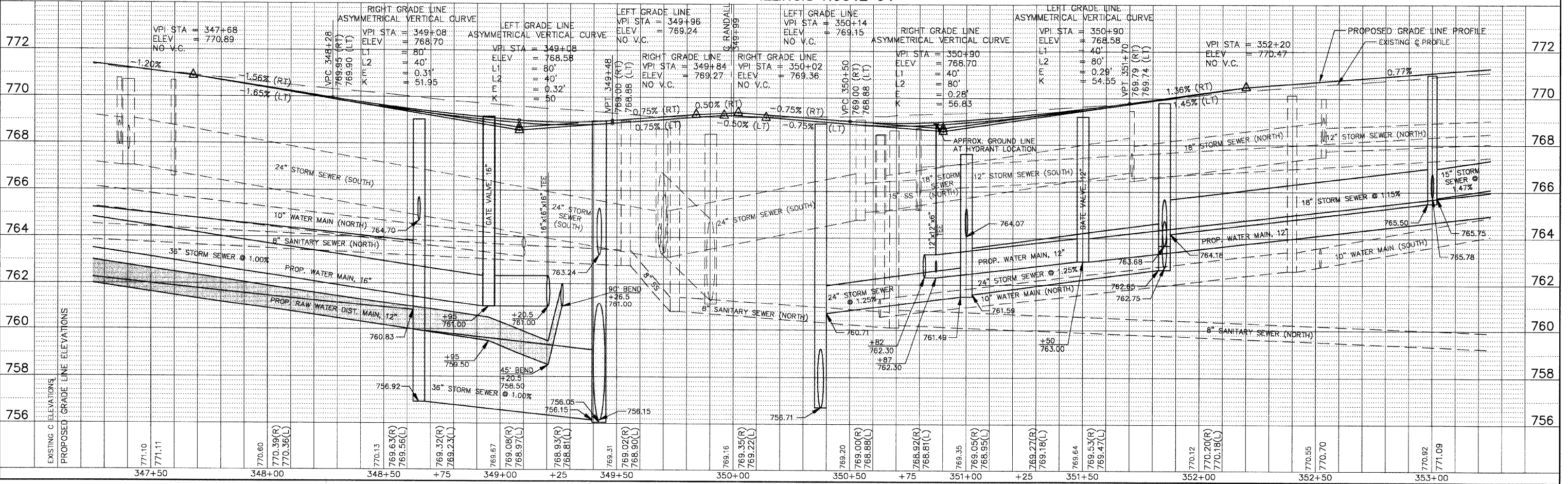
PIPE NO.	LOCATION FROM TO STR #	DESCRIPTION	DIA (IN)	L (FT)	S (%)	TRENCH BACKFILL	
						L (FT)	VOL (CY)
S522	520	SS 2 RCCP IV	30	120	1.00	120	19.0
S523	523	SS 2 RCCP IV "O" RING	12	39	1.00	39	5.4
S524	524	SS 2 RCCP IV	12	32	1.00	32	4.2
S525	NOT USED						
S526	527	SS 1 RCCP IV "O" RING	15	8	1.00	8	1.0
S527	525	SS 2 RCCP IV "O" RING	30	100	1.00	100	15.8
S528	529	SS 1 RCCP IV "O" RING	12	8	1.00	8	1.1
S529	528	SS 2 RCCP IV	30	100	1.00	100	15.8
S530	530	SS 2 RCCP IV	12	36	1.00	36	4.8
S531	531	SS 2 RCCP IV	12	10	1.00	10	1.3
S532	532	SS 2 RCCP IV	12	32	1.00	32	4.2
S533	534	SS 1 RCCP IV "O" RING	12	8	1.00	8	1.1
S534	533	SS 2 RCCP IV	30	100	1.00	100	12.4
S535	535	SS 1 RCCP IV	12	12	1.00	12	1.6
S536	536	SS 2 RCCP IV	12	40	1.00	40	5.3
S537	538	SS 2 RCCP IV "O" RING	12	13	1.00	13	1.7
S538	537	SS 2 RCCP IV	36	100	1.00	100	24.4
S539	539	SS 1 RCCP IV	12	36	1.00	36	4.8
S540	540	SS 2 RCCP IV	12	47	1.00	47	8.1
S541	542	SS 2 RCCP IV "O" RING	12	13	1.00	13	1.7





ILLINOIS ROUTE 64

SEE SHEET NO. 94
 FOR INTERSECTION
 UTILITY PLAN
 INFORMATION

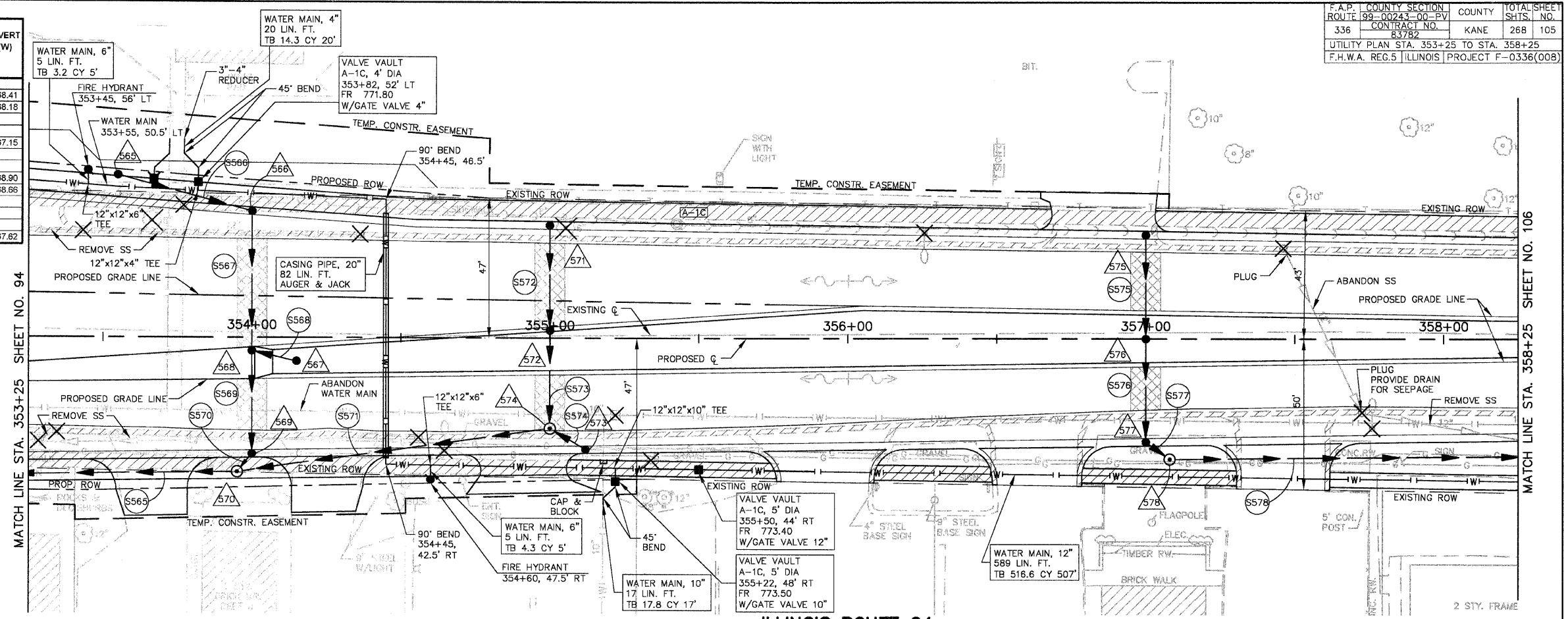


STATION	EXISTING GRADE LINE ELEVATION	PROPOSED GRADE LINE ELEVATION
347+50	770.10	771.11
348+00	770.60	770.39(R) 770.36(L)
348+50	770.13	769.63(R) 769.56(L)
349+00	769.32(R) 769.23(L)	768.67 769.08(R) 768.97(L)
349+25	768.93(R) 768.81(L)	768.31 769.02(R) 768.90(L)
350+00	769.16	769.35(R) 769.22(L)
350+50	769.20	769.00(R) 768.88(L)
351+00	768.92(R) 768.81(L)	769.35 769.05(R) 768.95(L)
351+25	769.27(R) 769.18(L)	769.64 769.53(R) 769.47(L)
352+00	770.12	770.20(R) 770.18(L)
352+50	770.55	770.70
353+00	770.92	771.09

DRAINAGE STRUCTURE TABLE STA. 353+25 TO STA. 358+25

NO.	STA.	OFFSET	STRUCTURE TYPE/SIZE	FRAME & GRATE	RIM ELEV EPI/FR	INVERT (N)	INVERT (S)	INVERT (E)	INVERT (W)
565	353+55	54.5' LT	C 2	1C	771.36	768.92 EX.		768.62	
566	354+00	41.14' LT	A 4	24	771.41		768.31		768.41
567	354+15	7.8' RT	A 4	1P	772.14				768.18
568	354+00	3.14' RT	A 4	11V	771.72	768.11	768.01	768.11	
569	354+00	37.73' RT	A 4	24	771.49	767.85	767.49		
570	353+95	45.0' RT	A 4	1C	771.90	767.41		767.40	767.15
571	355+00	36.45' LT	A 4	24	772.47		769.47		
572	355+00	3.76' LT	A 4	SPL1	772.82	769.32	769.22		
573	355+13	36.05' RT	A 4	24	772.57				768.90
574	355+00	30.25' RT	A 4	1C	772.59	769.07		768.76	768.66
575	357+10	33.35' LT	A 4	24	772.21		768.21		
576	357+10	CL	A 4	1P	772.73	768.06	767.96		
577	357+10	33.13' RT	A 4	24	772.21	767.81		767.71	
578	357+10	38.0' RT	A 4	1C	772.60		767.52	767.62	

LOCATE TO INTERCEPT EXISTING 6" STORM SEWER



F.A.P. COUNTY SECTION	ROUTE 99-00243-00-PV	COUNTY	TOTAL SHEET
336	CONTRACT NO. 83782	KANE	268
UTILITY PLAN STA. 353+25 TO STA. 358+25			105
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(00B)			

MATCH LINE STA. 353+25 SHEET NO. 94

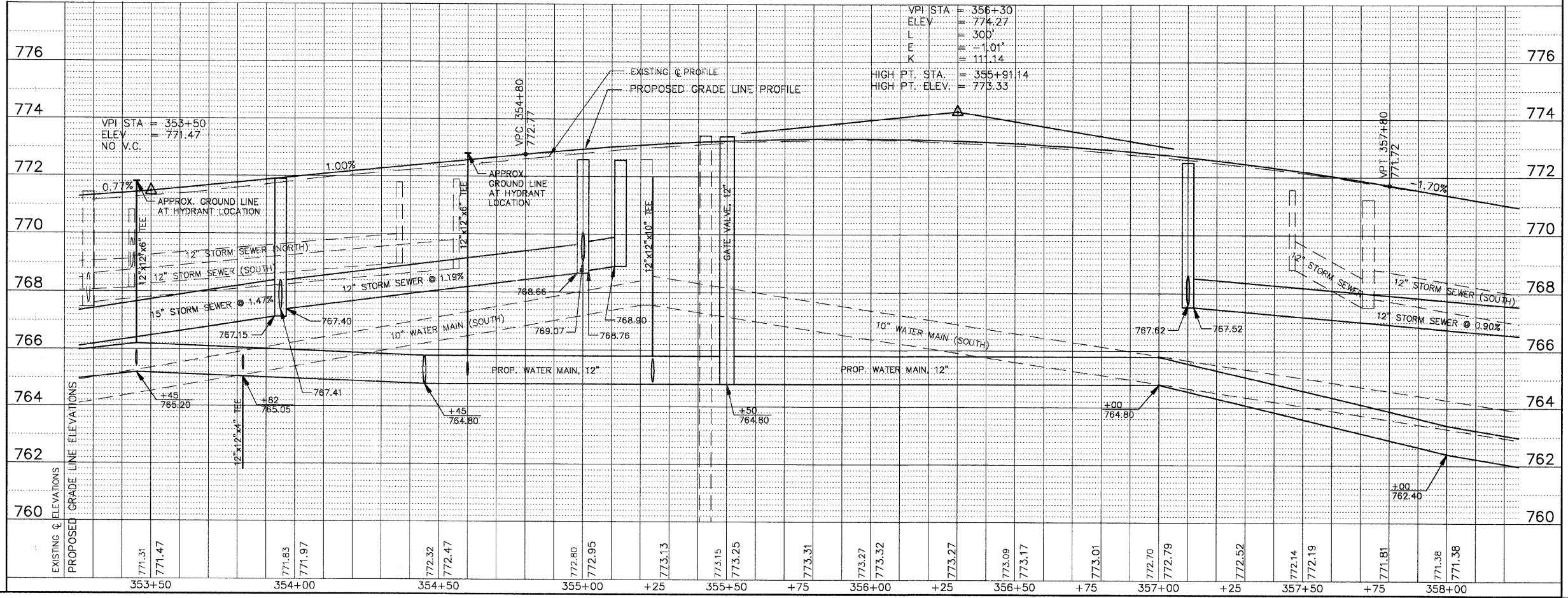
MATCH LINE STA. 358+25 SHEET NO. 106

ILLINOIS ROUTE 64

SCALE: 1" = 20'

DRAINAGE STRUCTURE TABLE STA. 353+25 TO STA. 358+25

PIPE NO.	LOCATION FROM STR #	TO STR #	DESCRIPTION	DIA (IN)	L (FT)	S (%)	BACKFILL L (FT)	VOL (CY)
S565	570	564	SS 2 RCCP IV	15	95	1.47	95	35.6
S566	565	566	SS 1 RCCP IV "O" RING	12	46	0.46	46	7.0
S567	566	568	SS 1 RCCP IV "O" RING	12	45	0.44	45	5.9
S568	567	568	SS 1 RCCP IV	12	15	0.47	15	2.0
S569	568	569	SS 1 RCCP IV	12	35	0.46	35	4.6
S570	569	570	SS 2 RCCP IV	12	8	1.00	8	2.4
S571	574	570	SS 2 RCCP IV "O" RING	12	106	1.19	106	18.4
S572	571	572	SS 1 RCCP IV	12	34	0.44	34	4.5
S573	572	574	SS 1 RCCP IV	12	33	0.45	33	4.3
S574	573	574	SS 1 RCCP IV "O" RING	12	14	1.00	14	2.3
S575	575	576	SS 2 RCCP IV	12	34	0.44	34	4.5
S576	576	577	SS 2 RCCP IV	12	34	0.44	34	4.5
S577	577	578	SS 2 RCCP IV "O" RING	12	10	0.90	10	3.8
S578	578	582	SS 2 DI CL S2	12	157	0.90	47	14.1

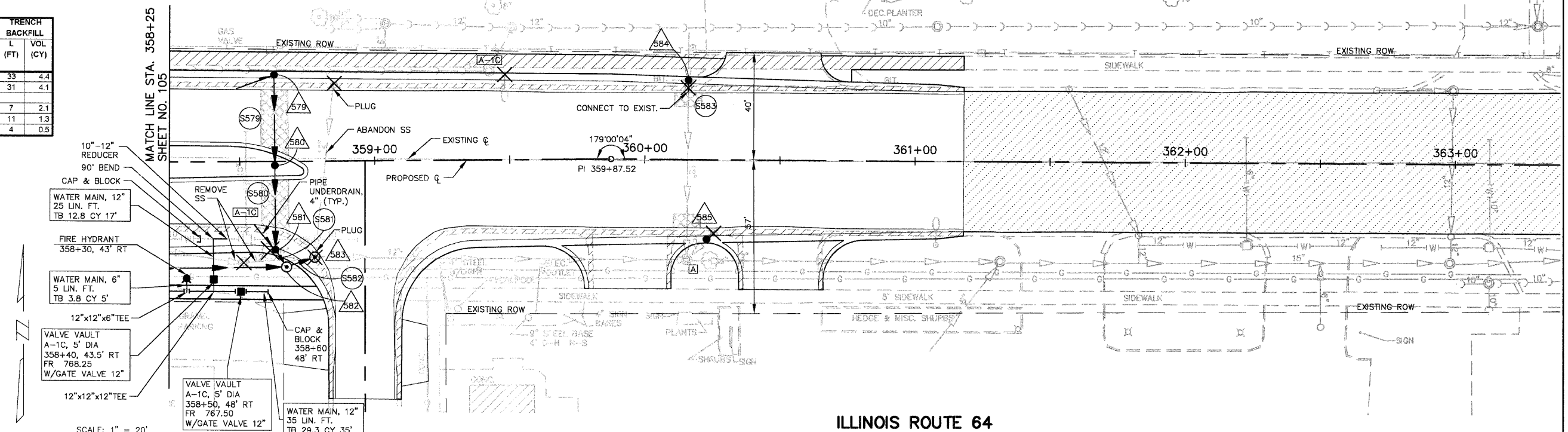


PIPE TABLE STA. 358+25 TO STA. 363+00

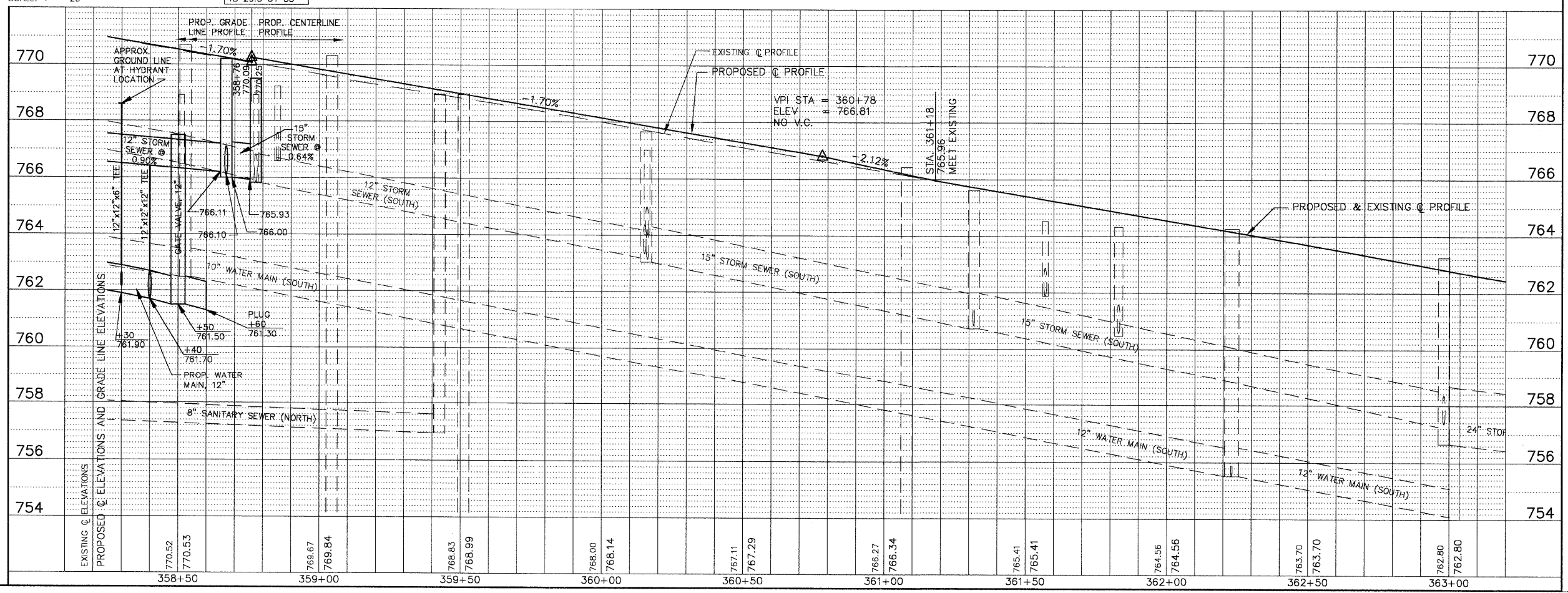
NO.	STA.	OFFSET	STRUCTURE TYPE/SIZE	FRAME & GRATE	RIM ELEV EPI/FR	INVERT (N)	INVERT (S)	INVERT (E)	INVERT (W)
579	358+63	30.95' LT	A4		24 769.83		766.63		
580	358+63	1.5' RT	A4		1P 770.34	766.48	766.38		
581	358+63	32.06' RT	A4		24 769.81	766.24	766.14		
582	358+67	39.0' RT	A4		1C 770.20	766.10		766.00	766.11
583	358+77.5	35.5' RT	A4		1C 769.51			765.83 EX	765.93
584	360+16	28.30' LT	A4		24 767.30	764.82 EX	764.03		
585	360+23	28.13' RT	A4		24 767.18		763.41 EX		

PIPE TABLE STA. 358+25 TO STA. 363+00

PIPE NO.	LOCATION FROM STR #	TO STR #	DESCRIPTION	DIA (IN)	L (FT)	S (%)	TRENCH BACKFILL	
							L (FT)	VOL (CY)
S579	579	580	SS 1 RCCP IV	12	33	0.45	33	4.4
S580	580	581	SS 1 RCCP IV	12	31	0.45	31	4.1
			"O" RING					
S581	581	582	SS 1 RCCP IV	12	7	0.57	7	2.1
S582	582	583	SS 1 RCCP IV	15	11	0.64	11	1.3
S583	584	EX	SS 1 RCCP IV	12	4	1.00	4	0.5



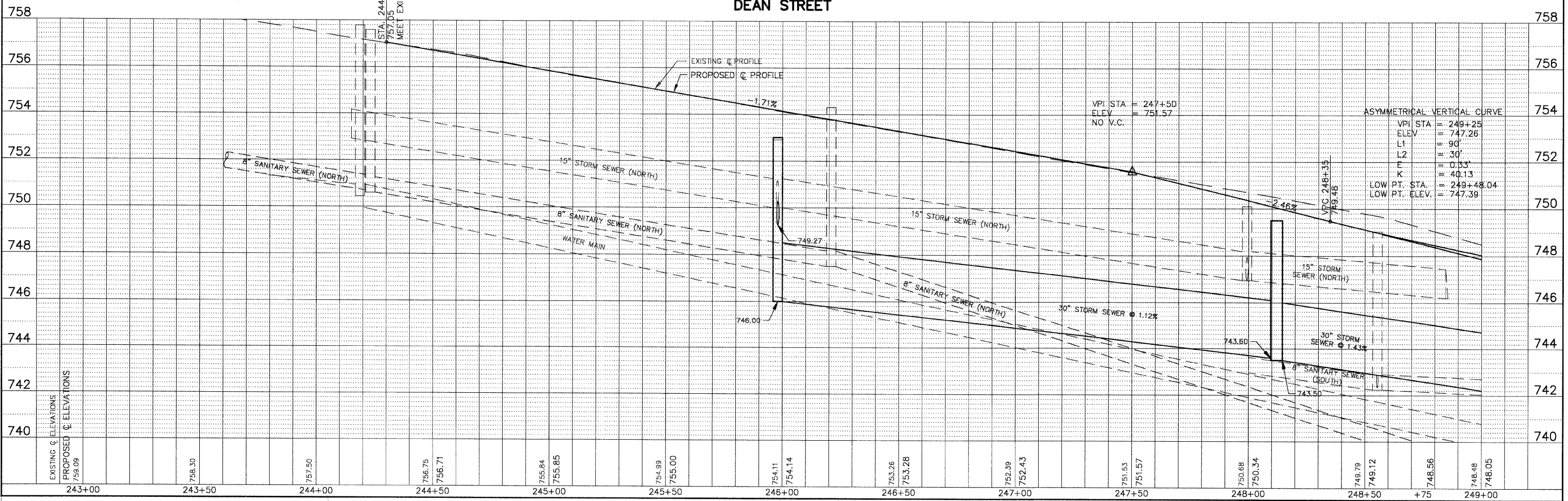
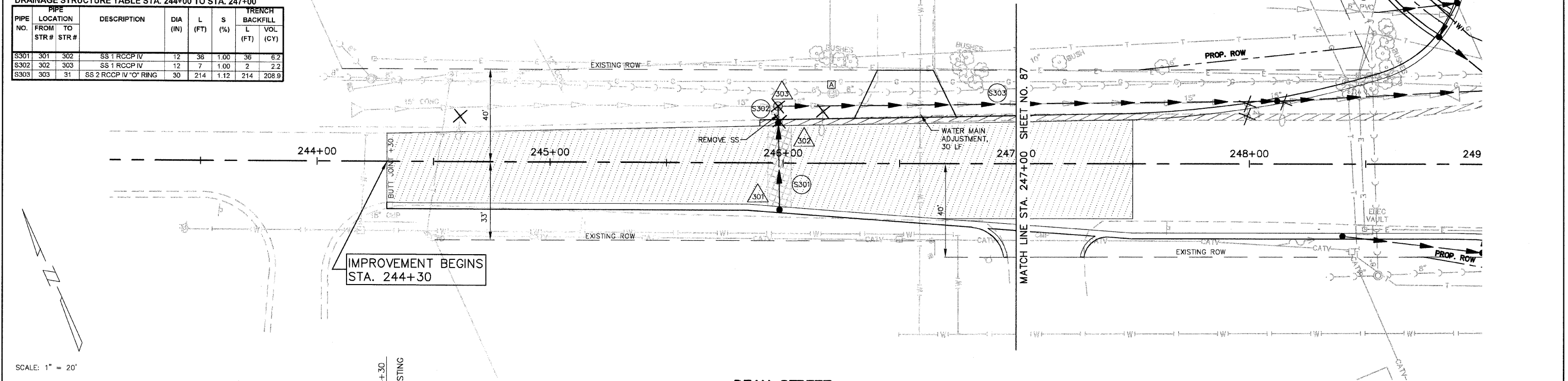
SCALE: 1" = 20'



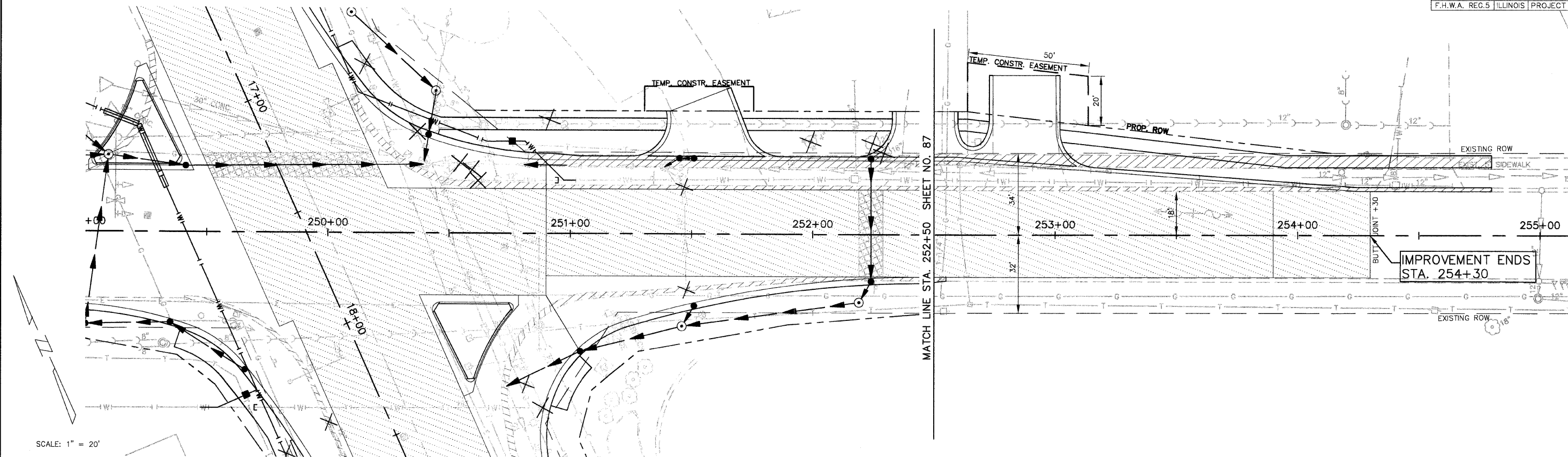
NO.	STA.	OFFSET	STRUCTURE TYPE/SIZE				FRAME & GRATE	RIM ELEV EP/FR	INVERT (N)	INVERT (S)	INVERT (E)	INVERT (W)
			MH	CB	INL	OTHER						
301	245+98	18.55' RT	A	4			24	753.80	749.80			
302	245+98	15.83' LT	A	4			24	753.83	749.34	749.44		
303	245+98	24.0' LT	B				7	753.00	749.27	746.00	750.00 EX	

PIPE NO.	LOCATION FROM STR #	LOCATION TO STR #	DESCRIPTION	DIA (IN)	L (FT)	S (%)	TRENCH BACKFILL	
							L (FT)	VOL (CY)
S301	301	302	SS 1 RCCP IV	12	36	1.00	36	6.2
S302	302	303	SS 1 RCCP IV	12	7	1.00	2	2.2
S303	303	31	SS 2 RCCP IV "O" RING	30	214	1.12	214	208.9

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET SHITS. NO.
99-00243-00-PV	837B2	KANE	268 107
UTILITY PLAN STA. 244+30 TO STA. 249+00			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			

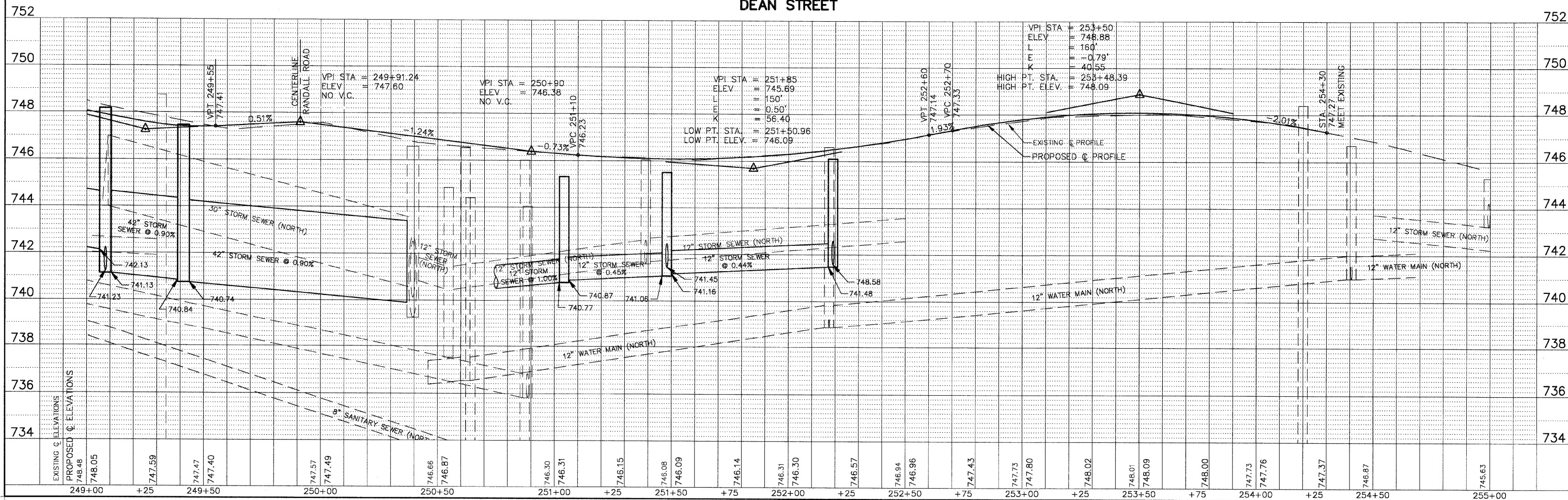


EXISTING C ELEVATIONS	PROPOSED C ELEVATIONS	243+00	243+50	244+00	244+50	245+00	245+50	246+00	246+50	247+00	247+50	248+00	248+50	+75	249+00										
	759.09		758.30	757.50	756.75	756.71	755.84	755.85	754.99	755.00	754.11	754.14	753.26	753.28	752.39	752.43	751.53	751.57	750.68	750.34	749.79	749.12	748.56	748.48	748.05

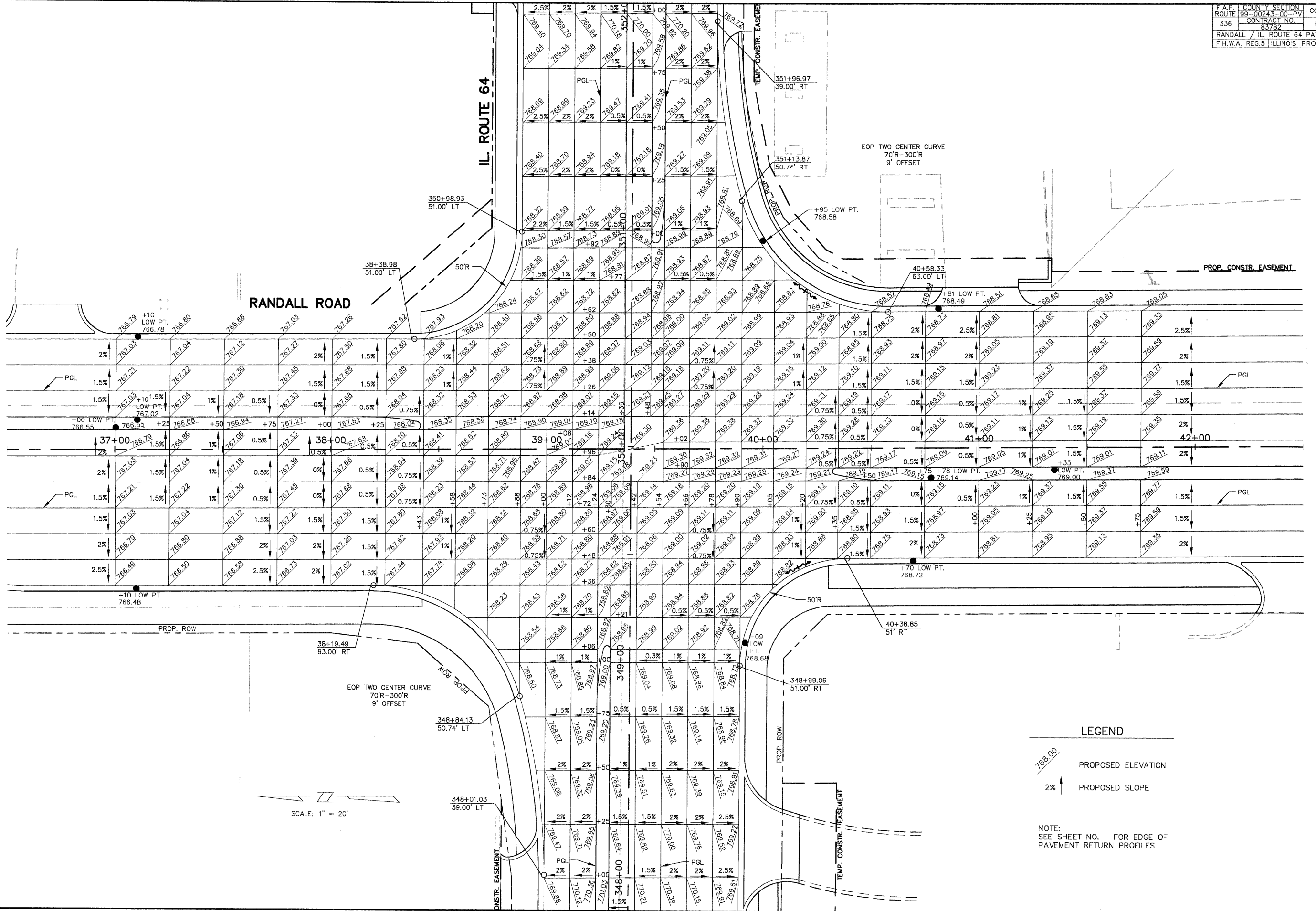


SCALE: 1" = 20'

DEAN STREET



F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
99-00243-00-PV		KANE	268
336	CONTRACT NO.		109
	83782		
RANDALL / IL. ROUTE 64 PAVEMENT ELEVATIONS			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



RANDALL ROAD

IL. ROUTE 64

LEGEND

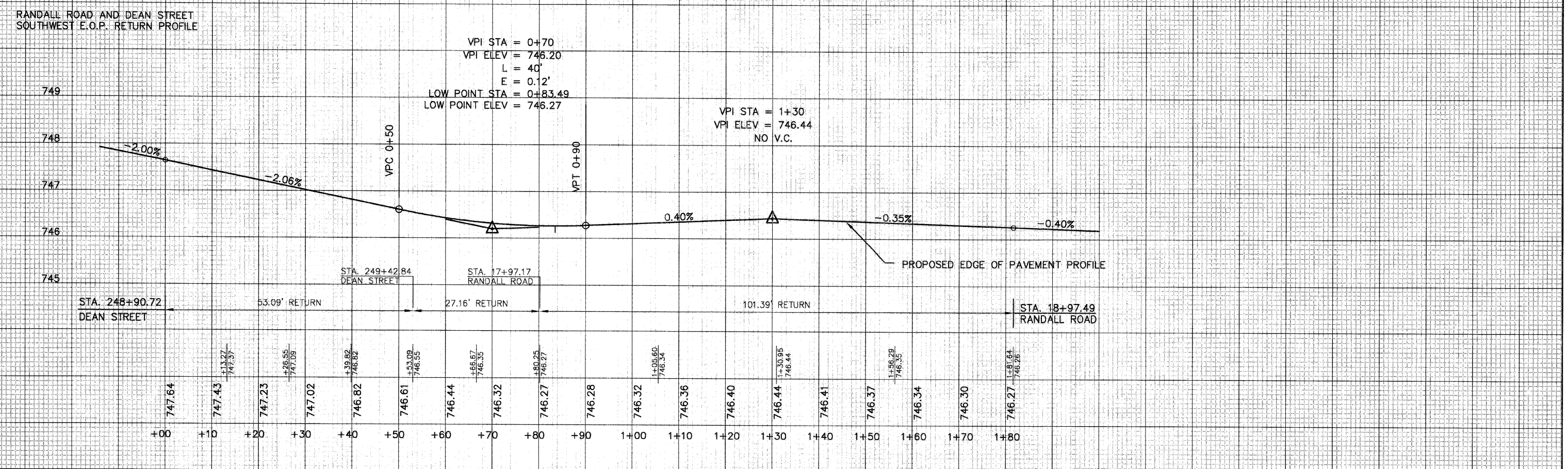
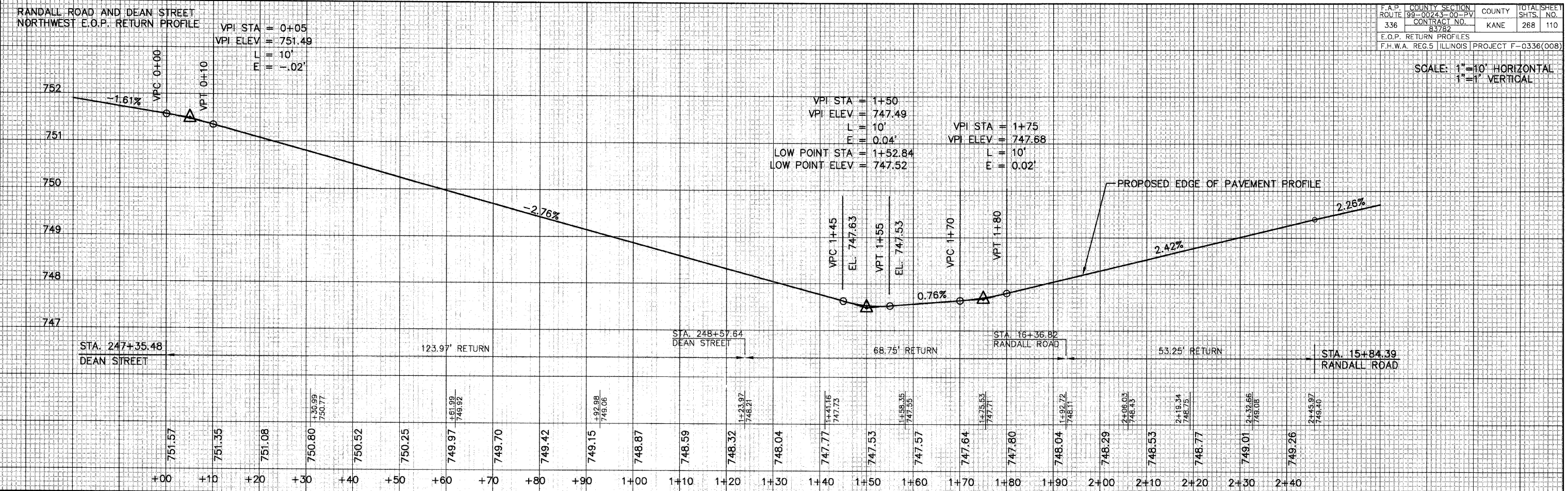
- 768.00 PROPOSED ELEVATION
- 2% ↑ PROPOSED SLOPE

NOTE:
 SEE SHEET NO. FOR EDGE OF
 PAVEMENT RETURN PROFILES

SCALE: 1" = 20'

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
CONTRACT NO. 83782			110
E.O.P. RETURN PROFILES			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			

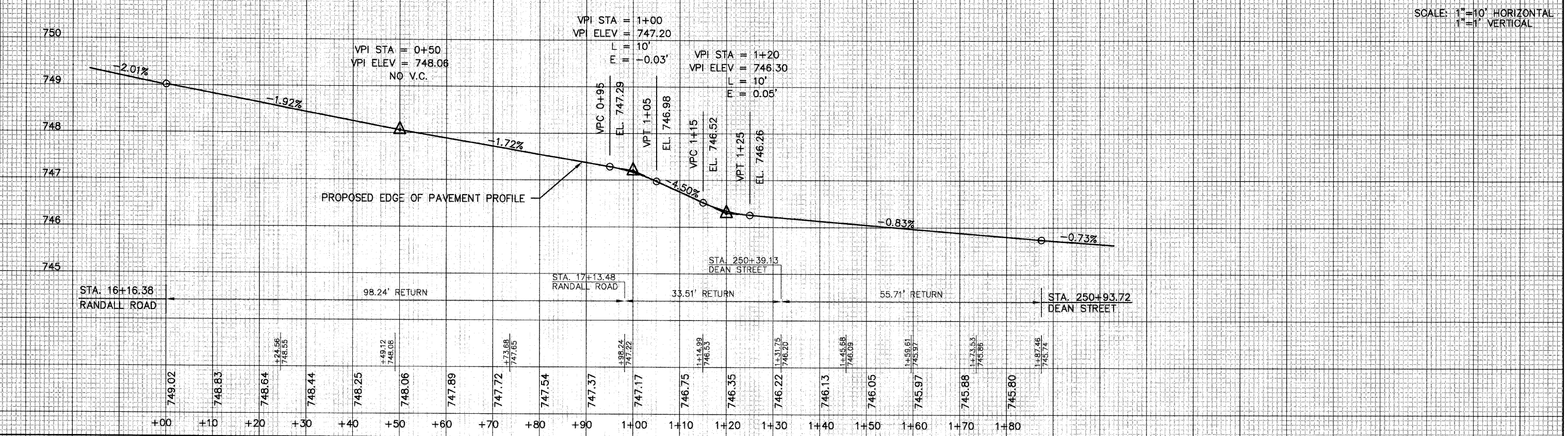
SCALE: 1"=10' HORIZONTAL
 1"=1' VERTICAL



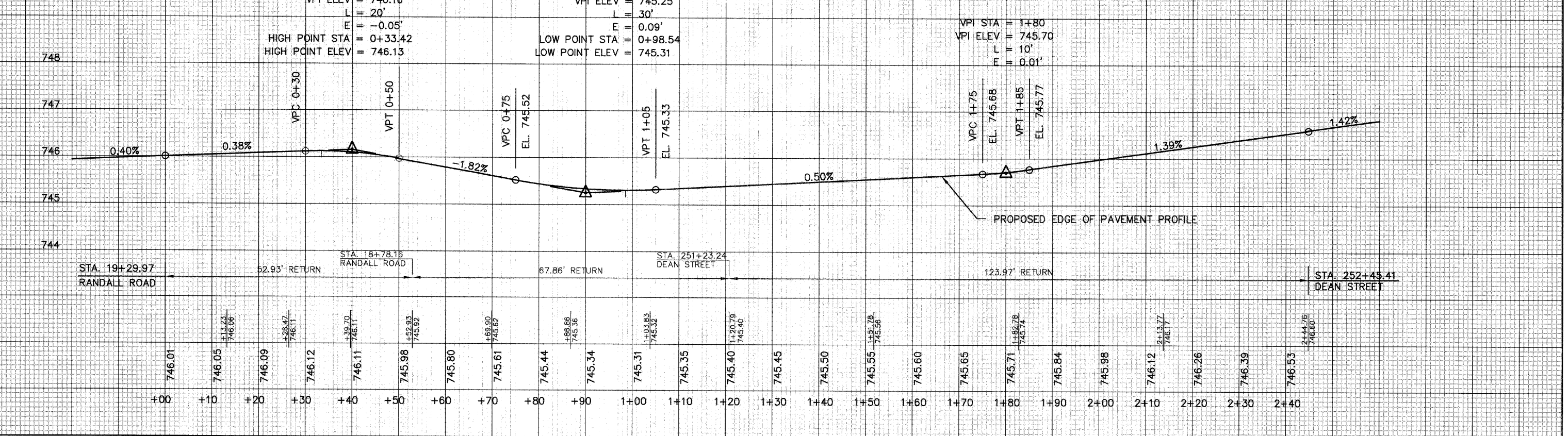
RANDALL ROAD AND DEAN STREET
 NORTHEAST E.O.P. RETURN PROFILE

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEETS
336	99-00243-00-PV	KANE	268
CONTRACT NO. 83782			111
E.O.P. RETURN PROFILES			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			

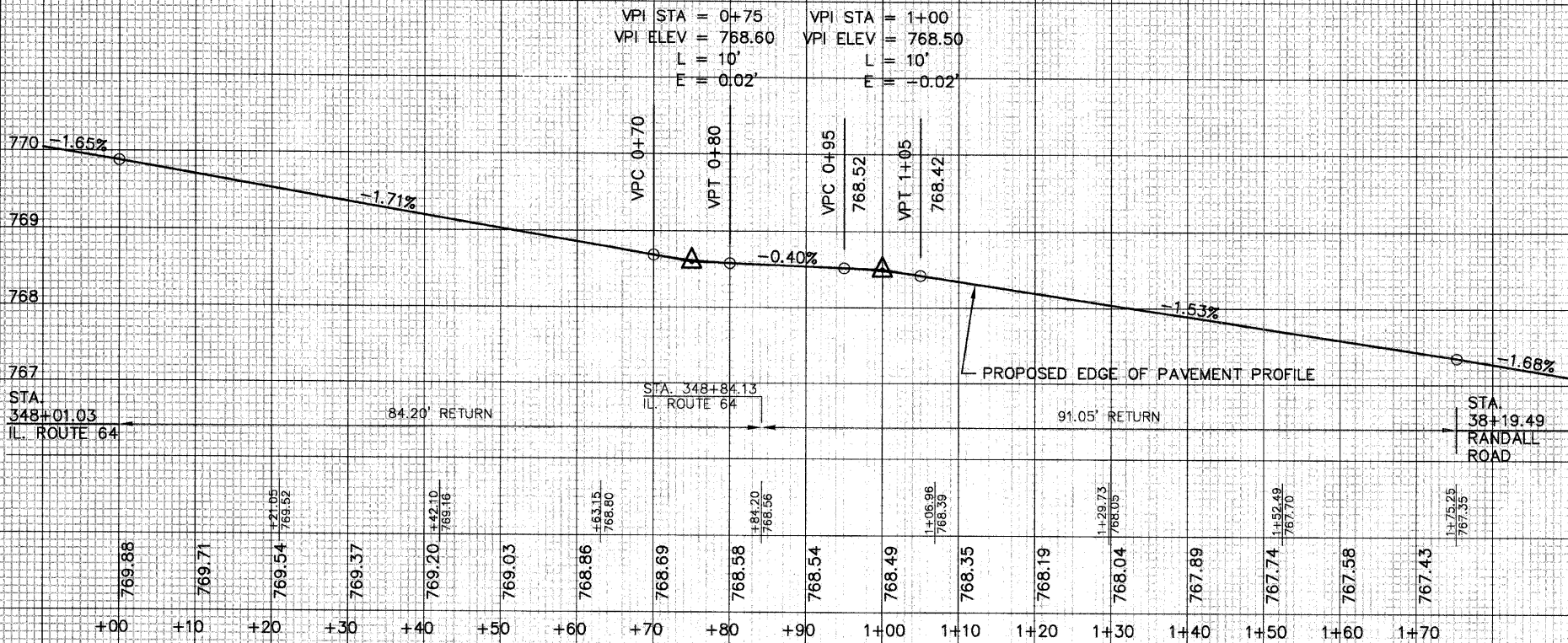
SCALE: 1"=10' HORIZONTAL
 1"=1' VERTICAL



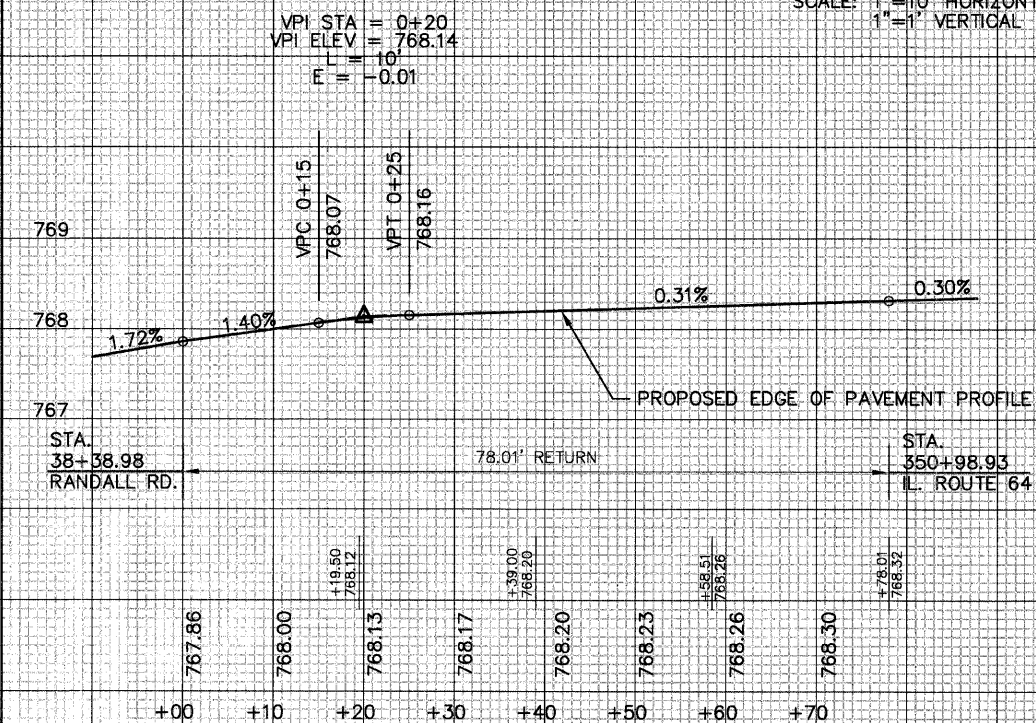
RANDALL ROAD AND DEAN STREET
 SOUTHEAST E.O.P. RETURN PROFILE



RANDALL ROAD AND IL. ROUTE 64
 NORTHWEST E.O.P. RETURN PROFILE



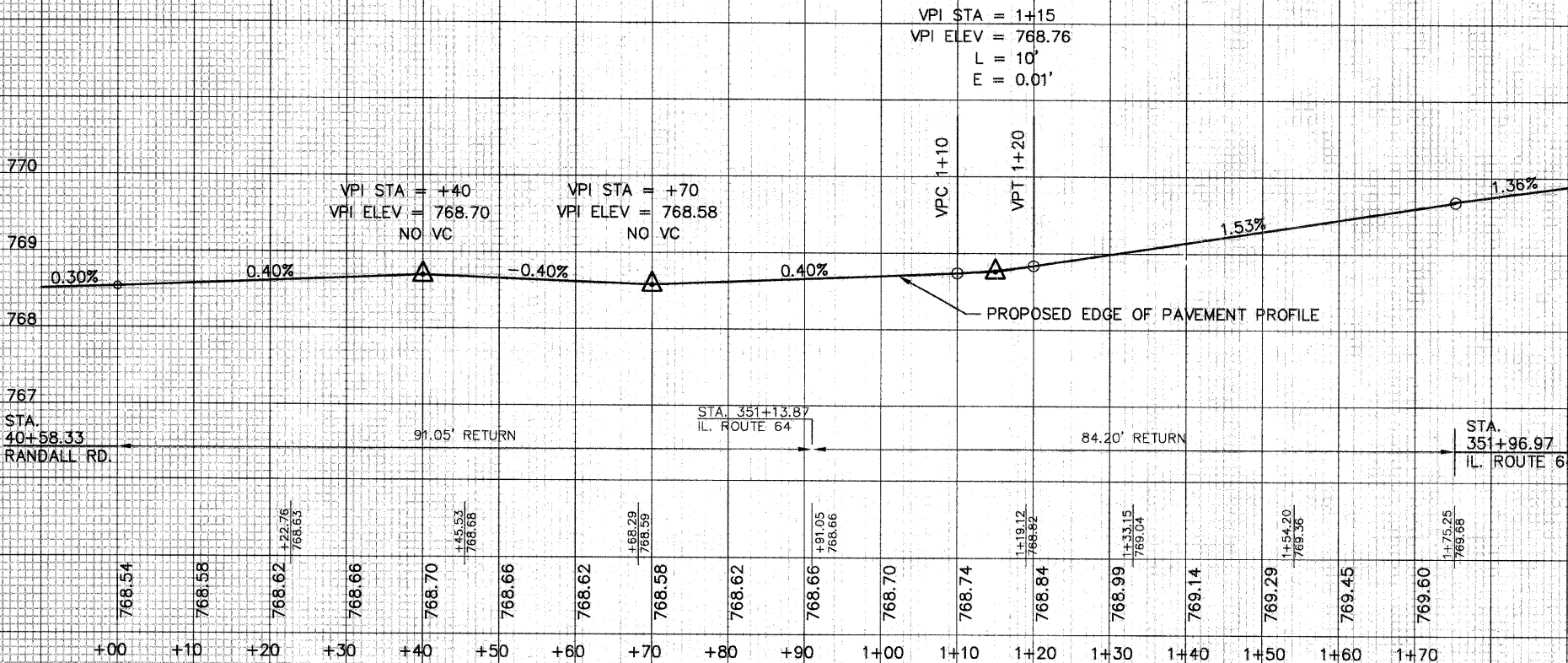
RANDALL ROAD AND IL. ROUTE 64
 NORTHEAST E.O.P. RETURN PROFILE



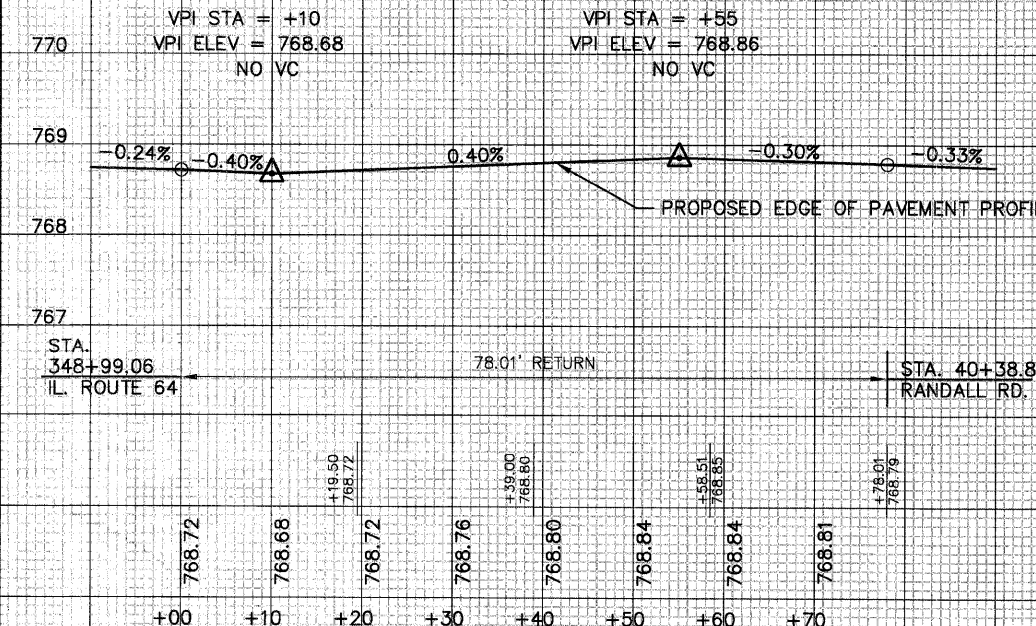
F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
99-00243-00-PV	336	KANE	268
CONTRACT NO.	83782		112
E.O.P. RETURN PROFILES			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			

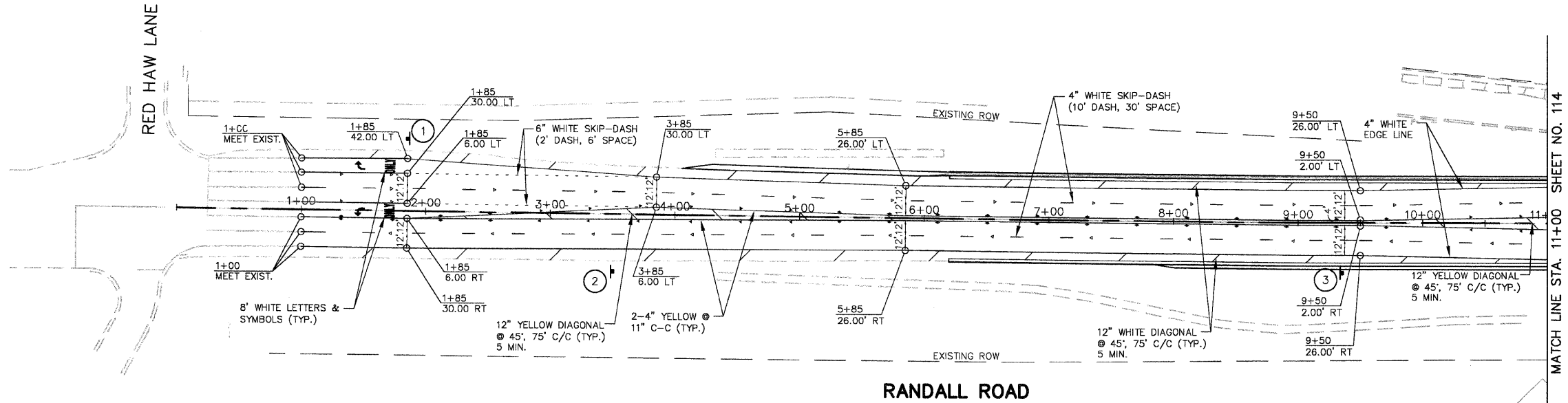
SCALE: 1"=10' HORIZONTAL
 1"=1' VERTICAL

RANDALL ROAD AND IL. ROUTE 64
 SOUTHEAST E.O.P. RETURN PROFILE



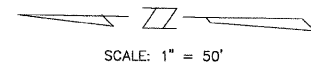
RANDALL ROAD AND IL. ROUTE 64
 SOUTHWEST E.O.P. RETURN PROFILE





SIGN SCHEDULE - STA. 1+00 TO STA. 11+00

NO.	STATION	OFFSET	SIGN TYPES	SUPPL. INFO.	TOTAL SIGN AREA	POST TYPE	TOTAL POST LENGTH
1	1+85	58' LT	R3-5R	-	7.5	2T	21.0
2	3+50	46' RT	R2-1	"45"	7.5	2T	24.0
3	9+35	40' RT	W3-3 & W16-8	"DEAN STREET"	13.0	2T	25.5



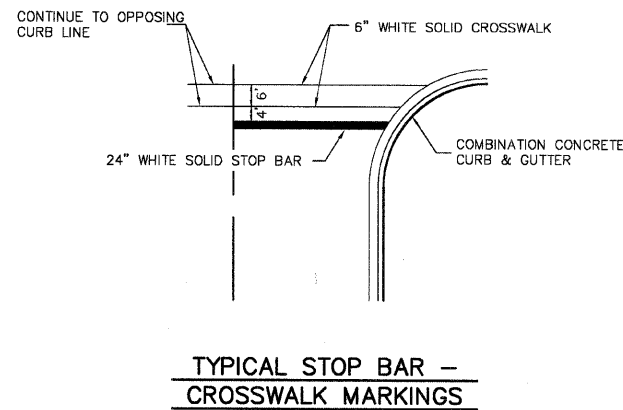
PAVEMENT MARKING AND SIGNING LEGEND

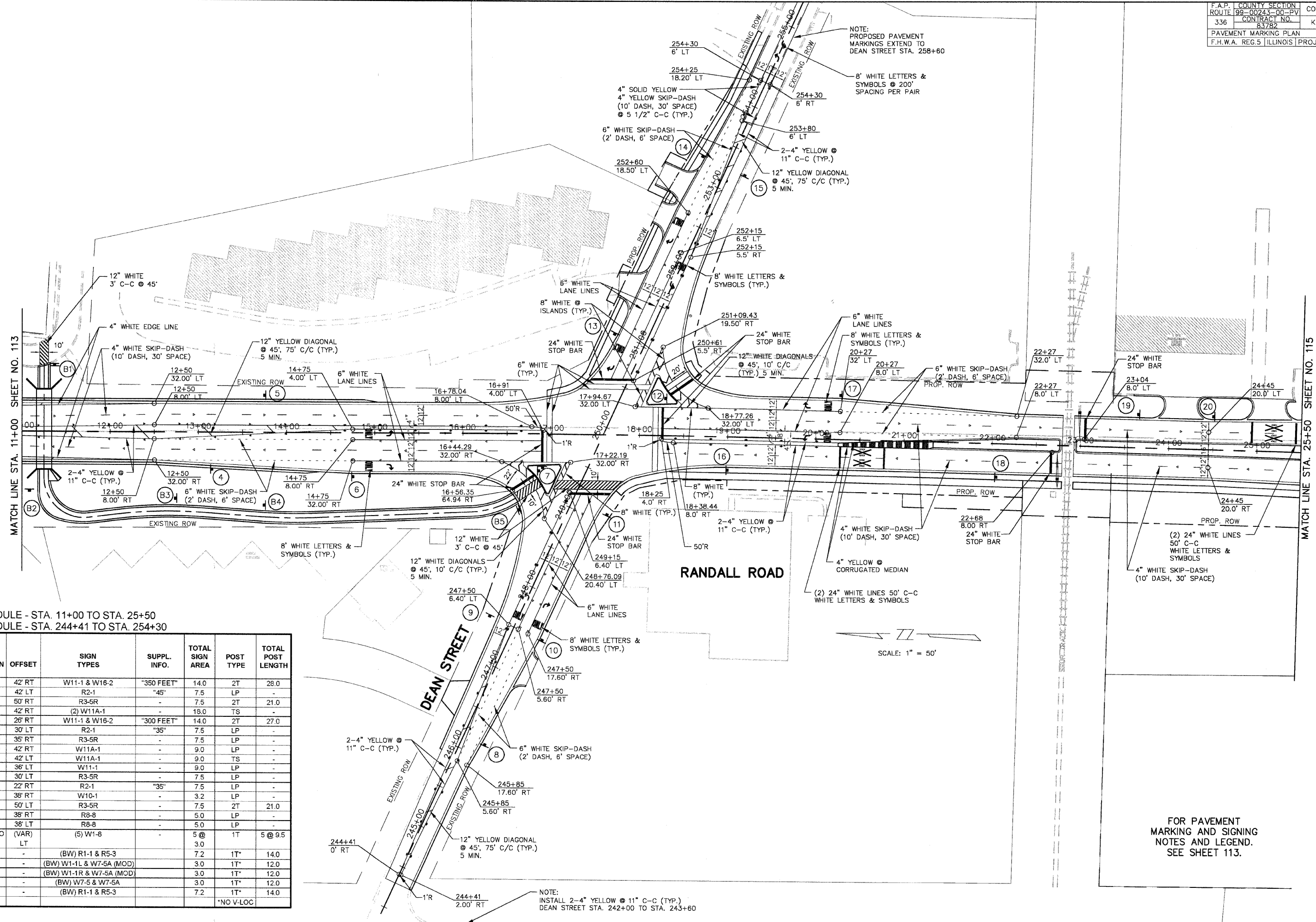
	R1-1 30" x 30"		W1-8 18" x 24"		W9-1 36" x 36"		(BW)R1-1 18" x 18"
	R2-1 30" x 36"		W2-1 36" x 36" & W16-8 VAR. x 18"		W10-1 24" DIA.		R5-3 24" x 24"
	R3-5(R/L) 30" x 36"		W2-2(R & L) 36" x 36" & W16-8 VAR. x 18"		W11-1 36" x 36" & W16-2 30" x 24"		(BW) W7-5 18" x 18" & W7-5R 12" x 9"
	R3-8b 60" x 30" 2-3 THRU ARROWS SEE SCHEDULE		W3-3 36" x 36" & W16-8 VAR. x 18"		W11-2 30" x 24"		(BW) W1-1(R/L) 18" x 18" 2 W7-5A(MOD) 12" x 9"
	R3-5L (MOD) 48" x 36"		W4-2R 36" x 36"				
	R3-9b 24" x 36"						
	R8-8 24" x 30"						

- ▷ ONE-WAY CRYSTAL MARKER
- ▶ ONE-WAY AMBER MARKER
- ◆ TWO-WAY AMBER MARKER
- ⊕ 11 PROPOSED SIGN - SEE SCHEDULE

SIGNS
 THE CONTRACTOR WILL BE REQUIRED TO RELOCATE OR REMOVE AND REPLACE EXISTING SIGNS WHICH INTERFERE WITH HIS CONSTRUCTION OPERATIONS AND TO TEMPORARILY RESET ALL SUCH SIGNS DURING CONSTRUCTION OPERATIONS. AN INVENTORY OF ALL EXISTING SIGNS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO THIS WORK. THIS WORK WILL BE CONSIDERED INCLUDED IN THE CONTRACT.

- ALL WORK INVOLVING SIGNS SHALL BE GOVERNED BY THE FOLLOWING REQUIREMENTS:
- SIGNS SHALL NOT BE MOVED UNTIL PROGRESS OF WORK NECESSITATES IT.
 - EVERY SIGN REMOVED MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER AND BE VISIBLE TO TRAFFIC FOR WHICH IT IS INTENDED IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
 - ALL SIGNS SHALL BE RE-ERECTED IN PERMANENT LOCATIONS AS THE ROADWAY IS COMPLETED. HORIZONTAL LOCATION FROM THE EDGE OF PAVEMENT SHALL BE AS DESIGNATED BY THE ENGINEER.
 - ALL EXISTING SIGNS THAT ARE REPLACED BY NEW SIGNS IN PERMANENT LOCATIONS, OR OTHERWISE DETERMINED BY THE ENGINEER TO BE OBSOLETE, SHALL BE REMOVED AND DELIVERED TO THE STATE, COUNTY, OR CITY, AS APPROPRIATE.
 - LONGER POSTS MAY BE REQUIRED AT SOME TEMPORARY OR PERMANENT SIGN LOCATIONS TO MAINTAIN PROPER SIGN ELEVATIONS.





NOTE:
 PROPOSED PAVEMENT MARKINGS EXTEND TO DEAN STREET STA. 258+60

RANDALL ROAD

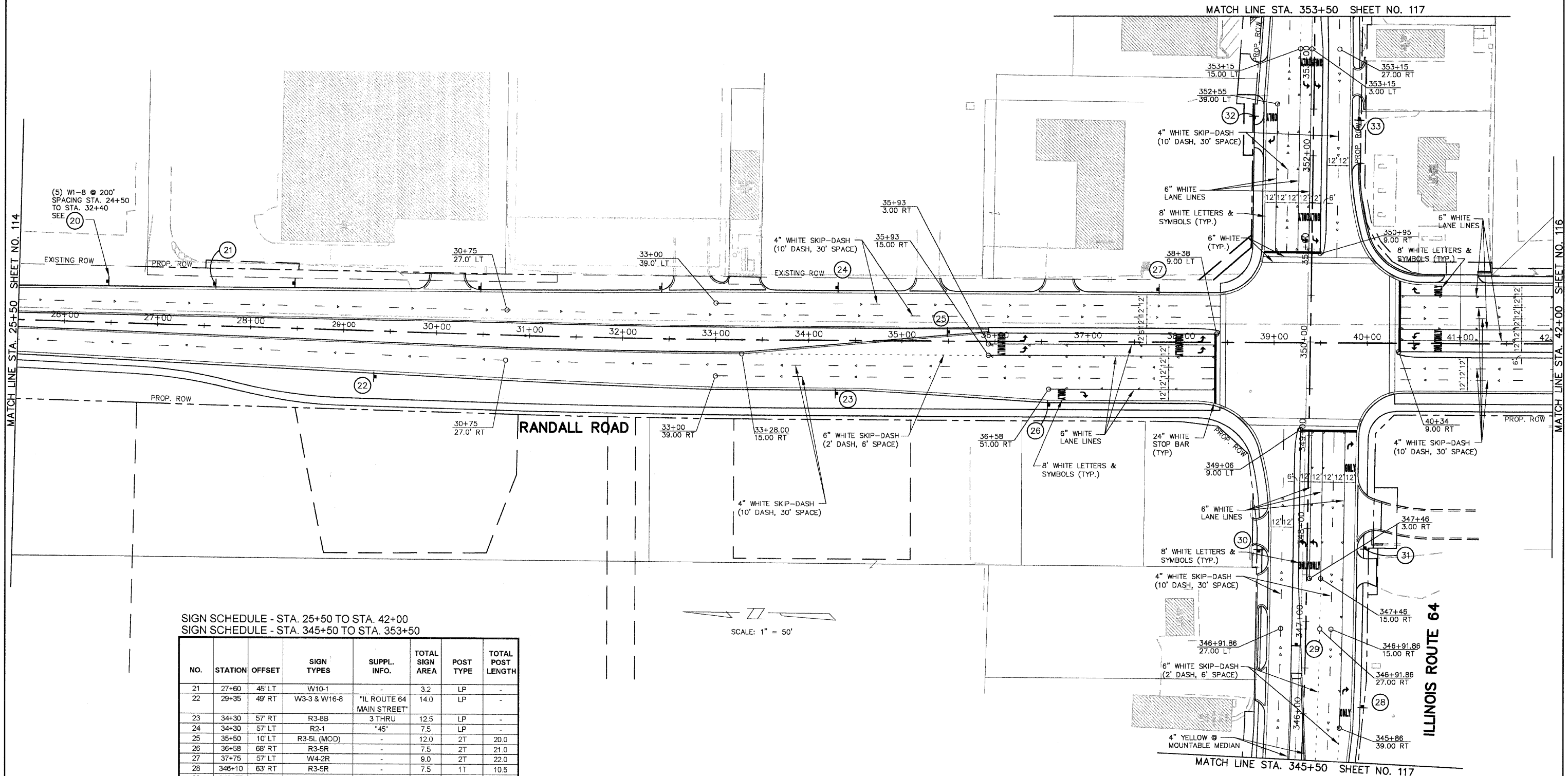
DEAN STREET

SCALE: 1" = 50'

SIGN SCHEDULE - STA. 11+00 TO STA. 25+50
 SIGN SCHEDULE - STA. 244+41 TO STA. 254+30

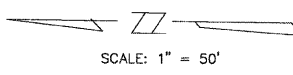
NO.	STATION	OFFSET	SIGN TYPES	SUPL. INFO.	TOTAL SIGN AREA	POST TYPE	TOTAL POST LENGTH
4	13+15	42' RT	W11-1 & W16-2	"350 FEET"	14.0	2T	28.0
5	13+75	42' LT	R2-1	"45"	7.5	LP	-
6	14+75	50' RT	R3-5R	-	7.5	2T	21.0
7	16+86	42' RT	(2) W11A-1	-	18.0	TS	-
8	246+15	26' RT	W11-1 & W16-2	"300 FEET"	14.0	2T	27.0
9	247+50	30' LT	R2-1	"35"	7.5	LP	-
10	247+50	35' RT	R3-5R	-	7.5	LP	-
11	249+10	42' RT	W11A-1	-	9.0	LP	-
12	18+29	42' LT	W11A-1	-	9.0	TS	-
13	251+00	36' LT	W11-1	-	9.0	LP	-
14	253+25	30' LT	R3-5R	-	7.5	LP	-
15	253+25	22' RT	R2-1	"35"	7.5	LP	-
16	19+00	38' RT	W10-1	-	3.2	LP	-
17	20+27	50' LT	R3-5R	-	7.5	2T	21.0
18	22+05	38' RT	R8-8	-	5.0	LP	-
19	23+65	38' LT	R8-8	-	5.0	LP	-
20	24+50 TO 32+40	(VAR) LT	(5) W1-8	-	5 @ 3.0	1T	5 @ 9.5
B1	-	-	(BW) R1-1 & R5-3	-	7.2	1T*	14.0
B2	-	-	(BW) W1-1L & W7-5A (MOD)	-	3.0	1T*	12.0
B3	-	-	(BW) W1-1R & W7-5A (MOD)	-	3.0	1T*	12.0
B4	-	-	(BW) W7-5 & W7-5A	-	3.0	1T*	12.0
B5	-	-	(BW) R1-1 & R5-3	-	7.2	1T*	14.0
							*NO V-LOC

FOR PAVEMENT MARKING AND SIGNING NOTES AND LEGEND. SEE SHEET 113.

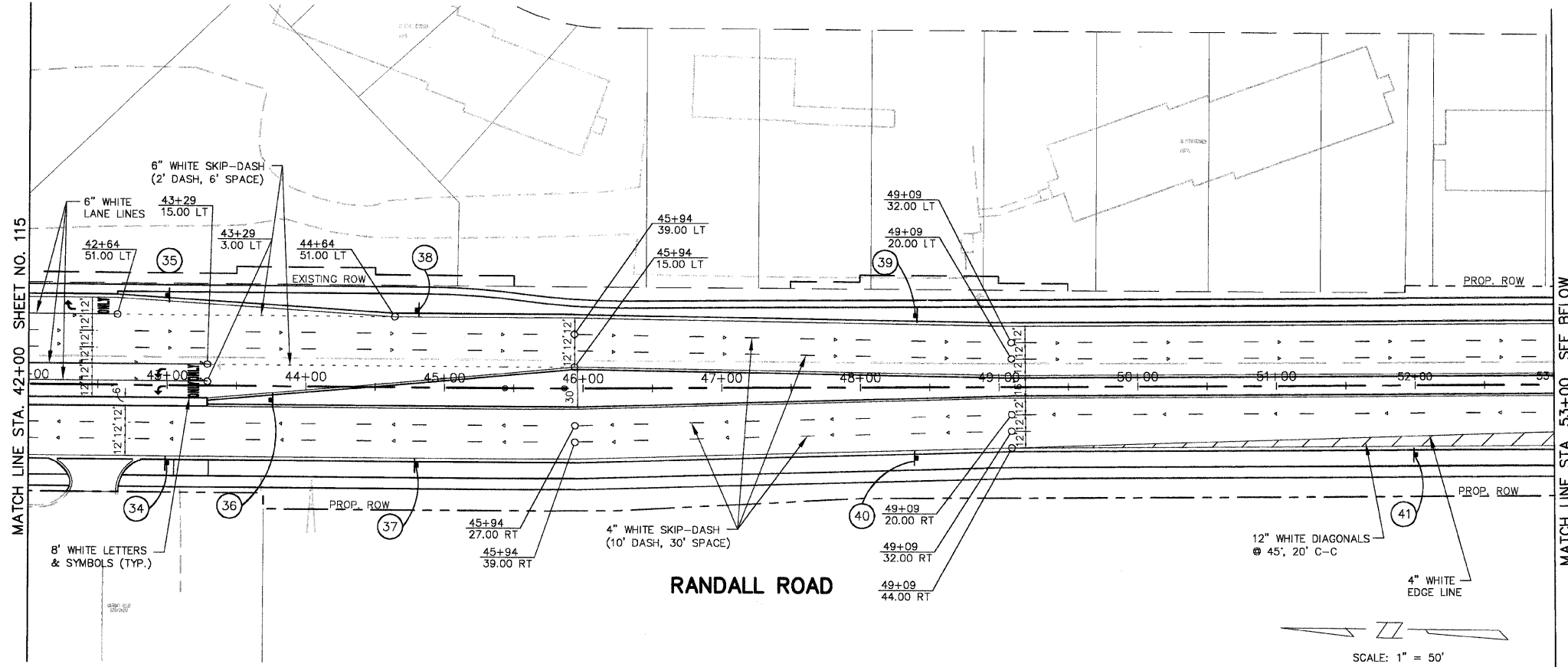


SIGN SCHEDULE - STA. 25+50 TO STA. 42+00
 SIGN SCHEDULE - STA. 345+50 TO STA. 353+50

NO.	STATION	OFFSET	SIGN TYPES	SUPPL. INFO.	TOTAL SIGN AREA	POST TYPE	TOTAL POST LENGTH
21	27+60	45' LT	W10-1	-	3.2	LP	-
22	29+35	49' RT	W3-3 & W16-8	"IL ROUTE 64 MAIN STREET"	14.0	LP	-
23	34+30	57' RT	R3-8B	3 THRU	12.5	LP	-
24	34+30	57' LT	R2-1	"45"	7.5	LP	-
25	35+50	10' LT	R3-5L (MOD)	-	12.0	2T	20.0
26	36+58	68' RT	R3-5R	-	7.5	2T	21.0
27	37+75	57' LT	W4-2R	-	9.0	2T	22.0
28	346+10	63' RT	R3-5R	-	7.5	1T	10.5
29	346+75	10' LT	R3-5L (MOD)	-	12.0	2T	19.0
30	347+75	52' LT	R2-1	"35"	7.5	LP	-
31	347+75	65' RT	R3-5R	-	7.5	LP	-
32	352+40	64' LT	R3-5R	-	7.5	LP	-
33	352+40	49' RT	R2-1	"35"	7.5	LP	-

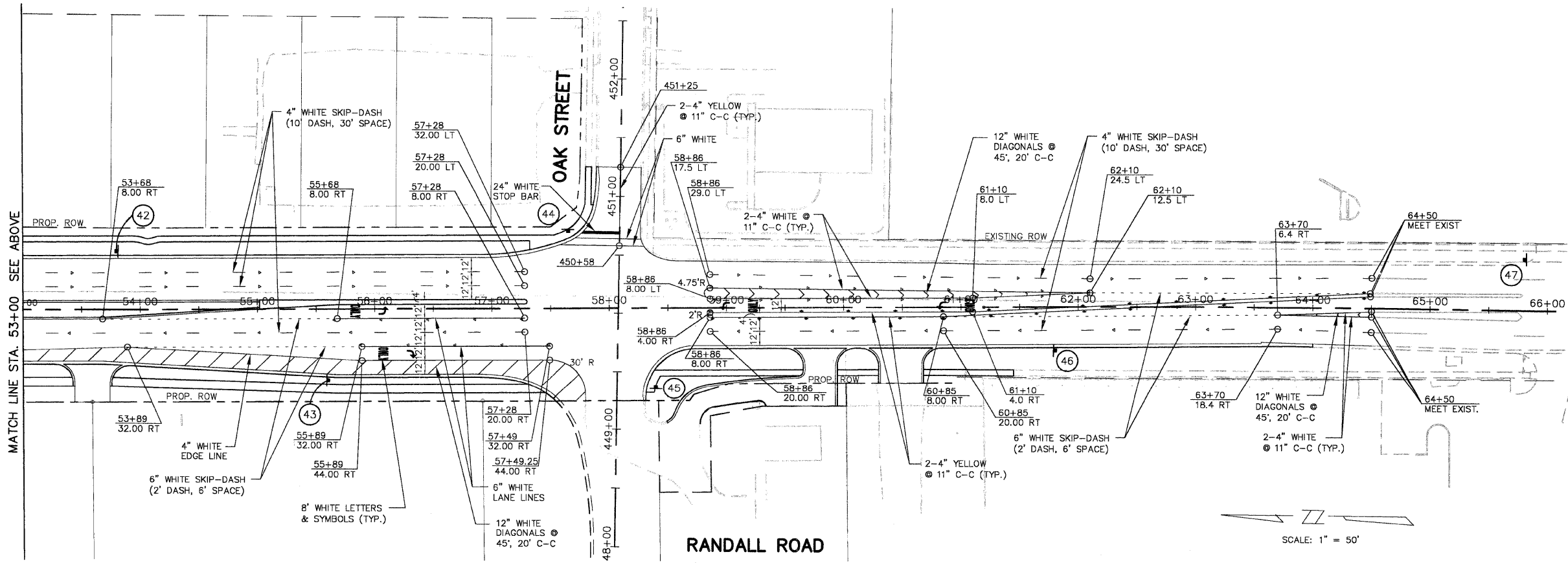


FOR PAVEMENT MARKING AND SIGNING NOTES AND LEGEND. SEE SHEET 113.

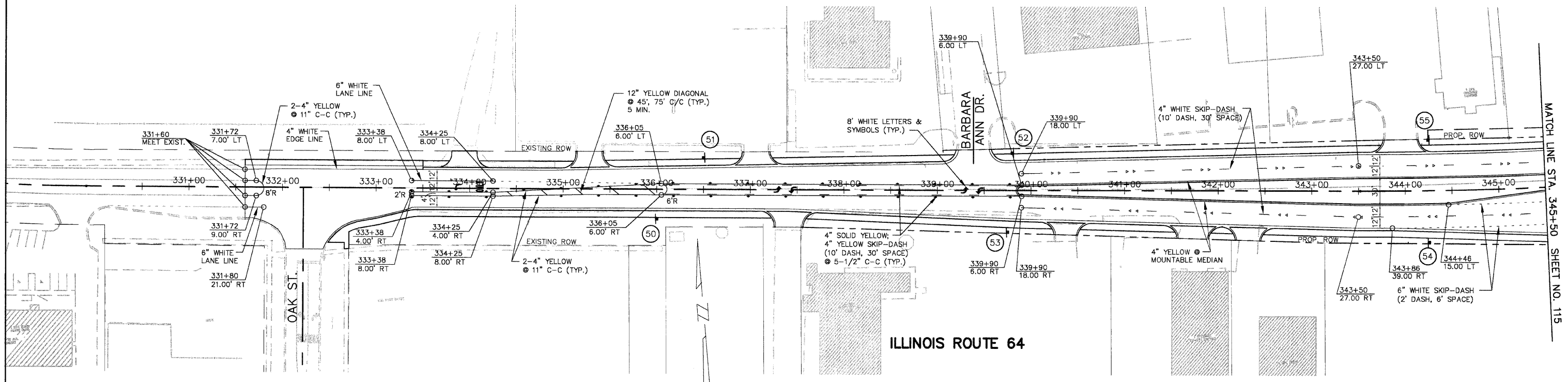


SIGN SCHEDULE - STA. 42+00 TO STA. 64+50
 SIGN SCHEDULE - STA. 449+00 TO STA. 451+25

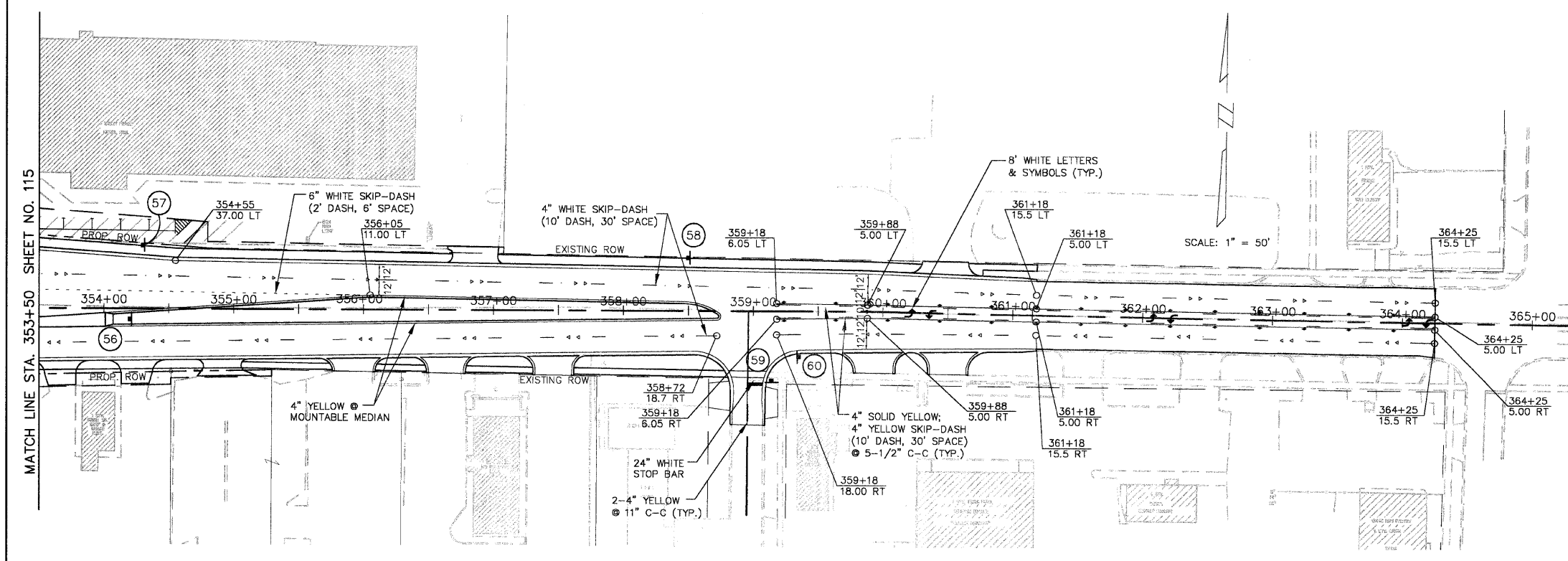
NO.	STATION	OFFSET	SIGN TYPES	SUPPL. INFO.	TOTAL SIGN AREA	POST TYPE	TOTAL POST LENGTH
34	43+00	56' RT	W4-2R	-	9.0	LP	-
35	43+00	85' LT	R3-5R	-	7.5	LP	-
36	43+75	10' RT	R3-5L (MOD)	-	12.0	2T	20.0
37	44+80	56' RT	R2-1	"45"	7.5	LP	-
38	44+80	56' LT	R3-8B	3 THRU	12.5	LP	-
39	48+40	52' LT	W3-3 & W16-8	"IL ROUTE 64 MAIN STREET"	14.0	LP	-
40	48+40	51' RT	W9-1	-	9.0	LP	-
41	52+00	50' RT	W2-1 & W16-8	"OAK STREET"	13.0	LP	-
42	53+80	50' LT	R2-1	"45"	7.5	LP	-
43	55+60	61' RT	R3-5R	-	7.5	LP	-
44	450+70	44' LT	R1-1	-	5.2	1T	10.0
45	449+37	33' RT	R1-1	-	5.2	1T	10.0
46	61+80	37' RT	R2-1	"45"	7.5	2T	21.0
47	65+80	44' LT	W2-1 & W16-8	"OAK STREET"	13.0	2T	23.0
48-49	NOT USED						



FOR PAVEMENT MARKING AND SIGNING NOTES AND LEGEND. SEE SHEET 113.



SCALE: 1" = 50'



SCALE: 1" = 50'

SIGN SCHEDULE - STA. 331+60 TO STA. 345+50
 SIGN SCHEDULE - STA. 353+50 TO STA. 364+25

NO.	STATION	OFFSET	SIGN TYPES	SUPPL. INFO.	TOTAL SIGN AREA	POST TYPE	TOTAL POST LENGTH
50	336+00	31' RT	R2-1 & R3-9B	"35"	13.5	2T	27.0
51	336+50	34' LT	W2-2L & W16-8	"OAK STREET"	13.0	2T	27.0
52	339+75	43' LT	R3-9B	-	6.0	LP	-
53	339+75	44' RT	W3-3 & W16-8	"RANDALL ROAD"	14.0	LP	-
54	344+25	55' RT	R3-8B	2 THRU	12.5	LP	-
55	344+25	54' LT	W4-2R	-	9.0	LP	-
56	354+20	8' RT	R3-5L (MOD)	-	12.0	2T	20.0
57	354+30	49' LT	R3-8B	2 THRU	12.5	LP	-
58	358+50	41' LT	W3-3 & W16-8	"IL ROUTE 64 MAIN STREET"	14.0	LP	-
59	359+14	54' RT	R1-1	-	5.2	1T	10.0
60	359+35	35' RT	R3-9B	-	6.0	1T	10.0

FOR PAVEMENT MARKING AND SIGNING NOTES AND LEGEND. SEE SHEET 113.

TRAFFIC SIGNAL SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL QUANTITY	RED HAW LANE & RANDALL RD	DEAN STREET & RANDALL RD	ILLINOIS RTE. 64 & RANDALL RD	PRAIRIE STREET & RANDALL RD	ILLINOIS RTE. 38 & RANDALL RD	RANDALL RD. SYSTEM INTERCONNECT
SIGN PANEL - TYPE 1	SQ FT	82		27	55			
SIGN PANEL - TYPE 2	SQ FT	25			25			
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	5005		410	115			4480
CONDUIT IN TRENCH, 2-1/2" DIA., GALVANIZED STEEL	FOOT	270		70	200			
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	20		20				
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	190		20	170			
CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL	FOOT	16		16				
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	65						65
CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	105		105				
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	1290		560	700			30
HANDHOLE	EACH	11		6				9
DOUBLE HANDHOLE	EACH	7		2	5			
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	5500		535	485			4480
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1		1				
FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	1			1			
TRANSCEIVER - FIBER OPTIC	EACH	2		1	1			
UNINTERRUPTIBLE POWER SUPPLY	EACH	2		1	1			
ELECTRICAL CABLE IN CONDUIT, TRACER NO. 14 1C	FOOT	7600						7600
ELECTRICAL CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	3697		1764	1933			
ELECTRICAL CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	6670		3455	3215			
ELECTRICAL CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4886		1016	3870			
ELECTRICAL CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	5289		3084	2205			
ELECTRICAL CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1330		1330				
ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 16, 5.5 PAIR	FOOT	2258		1120	1140			
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	187		61	126			
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	7962						7962
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1798		832	966			
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	1934		654	1280			
ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	85			85			
TRAFFIC SIGNAL POST, PAINTED STEEL 10 FT.	EACH	2		2				
TRAFFIC SIGNAL POST, PAINTED STEEL 16 FT.	EACH	6		2	4			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT. WITH 15 FT. LIGHTING ARM AT 40 FT. MOUNTING HEIGHT	EACH	1		1				
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT. WITH 15 FT. LIGHTING ARM AT 40 FT. MOUNTING HEIGHT	EACH	1		1				

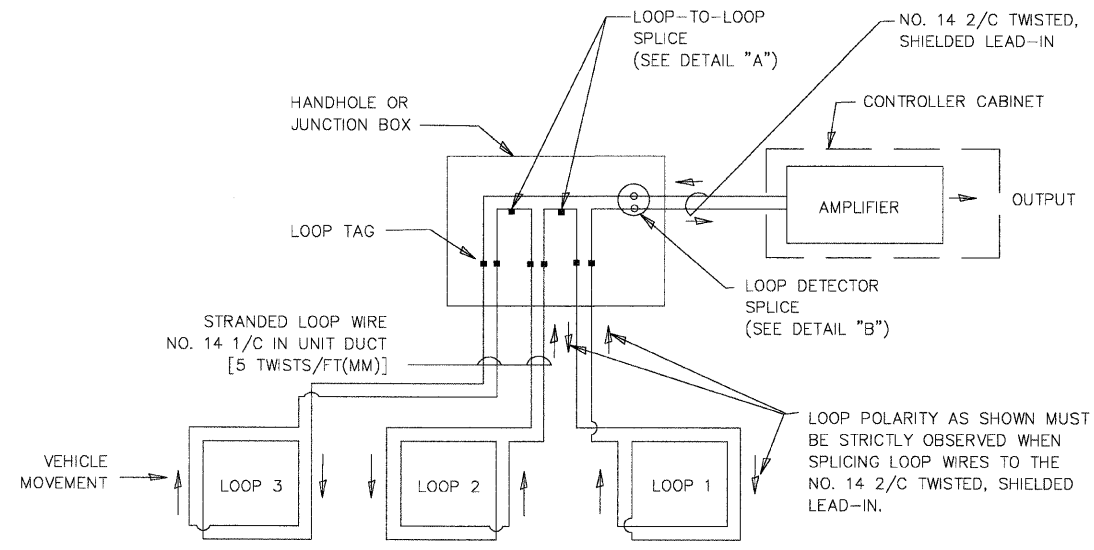
ITEM	UNIT	TOTAL QUANTITY	RED HAW LANE & RANDALL RD	DEAN STREET & RANDALL RD	ILLINOIS RTE. 64 & RANDALL RD	PRAIRIE STREET & RANDALL RD	ILLINOIS RTE. 38 & RANDALL RD	RANDALL RD. SYSTEM INTERCONNECT
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT. WITH 15 FT. LIGHTING ARM AT 40 FT. MOUNTING HEIGHT	EACH	2		2				
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT. WITH DUAL 15 FT. LIGHTING ARMS AT 45 FT. MOUNTING HEIGHT	EACH	1			1			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT. WITH DUAL 15 FT. LIGHTING ARMS AT 45 FT. MOUNTING HEIGHT	EACH	1			1			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 55 FT. WITH DUAL 15 FT. LIGHTING ARMS AT 45 FT. MOUNTING HEIGHT	EACH	2			2			
CONCRETE FOUNDATION, TYPE A	FOOT	38		19	19			
CONCRETE FOUNDATION, TYPE D	FOOT	8		4	4			
CONCRETE FOUNDATION, TYPE E 36" DIAMETER	FOOT	120		60	60			
DRILL EXISTING HANDHOLE	EACH	1						1
TRAFFIC SIGNAL BACKPLATE, LOUVERED ALUMINUM	EACH	20		8	12			
INDUCTIVE LOOP DETECTOR	EACH	6		6				
DETECTOR LOOP, TYPE 1	FOOT	162		162				
* LIGHT DETECTOR	EACH	7		3	4			
* LIGHT DETECTOR AMPLIFIER	EACH	2		1	1			
PEDESTRIAN PUSH-BUTTON	EACH	16		8	8			
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2		1	1			
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3	1			1	1	
MAINTAIN EXISTING TRAFFIC SIGNAL INTERCONNECT	L. SUM	1						1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2		1	1			
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4330						4330
REMOVE EXISTING HANDHOLE	EACH	27		10	13			4
REMOVE EXISTING CONCRETE FOUNDATION	EACH	18		9	9			
SIGNAL HEAD, POLY, L.E.D., 1-FACE, 3-SECTION, MAST ARM MTD	EACH	12		2	10			
SIGNAL HEAD, POLY, L.E.D., 1-FACE, 5-SECTION, BRACKET MTD	EACH	2			2			
SIGNAL HEAD, POLY, L.E.D., 1-FACE, 5-SECTION, MAST ARM MTD	EACH	8		6	2			
SIGNAL HEAD, POLY, L.E.D., 2-FACE, 5-SECTION, BRACKET MTD	EACH	2		2				
SIGNAL HEAD, POLY, L.E.D., 2-FACE, 1-3 SEC., 1-5 SEC., BRACKET MTD	EACH	6		2	4			
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED	EACH	14		6	8			
PEDESTRIAN SIGNAL HEAD, L.E.D., 3-FACE, BRACKET MOUNTED	EACH	2		2				
SERVICE INSTALLATION, GROUND MOUNTED	EACH	2		1	1			
VIDEO DETECTION SYSTEM (COMPLETE INTERSECTION)	EACH	2		1	1			
REMOTE-CONTROLLED VIDEO SYSTEM	EACH	1			1			
VIDEO TRANSMISSION SYSTEM	EACH	1			1			
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	L. SUM	1						1

* 100% TO BE PAID BY THE CITY OF ST. CHARLES

DIVISION OF TRANSPORTATION	
TRAFFIC SIGNAL SCHEDULE OF QUANTITIES	
RANDALL ROAD (RED HAW LANE TO IL. RTE. 38)	
NAME	DATE
REVISIONS	
SCALE: NONE	DESIGNED BY: DMH
DATE: SEPTEMBER 23, 2004	CHECKED BY: JRL

LOOP DETECTOR NOTES

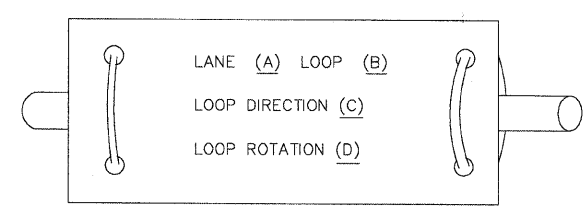
- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED 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 DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- 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.



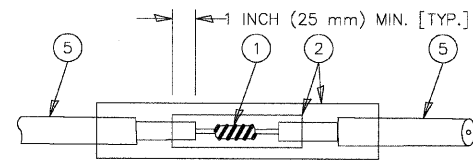
DETECTOR LOOP WIRING SCHEMATIC

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

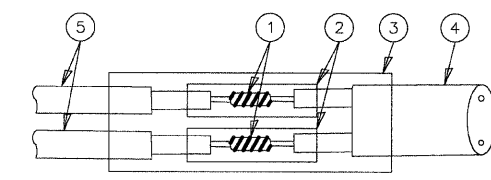
LOOP LEAD-IN CABLE TAG



- 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.



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

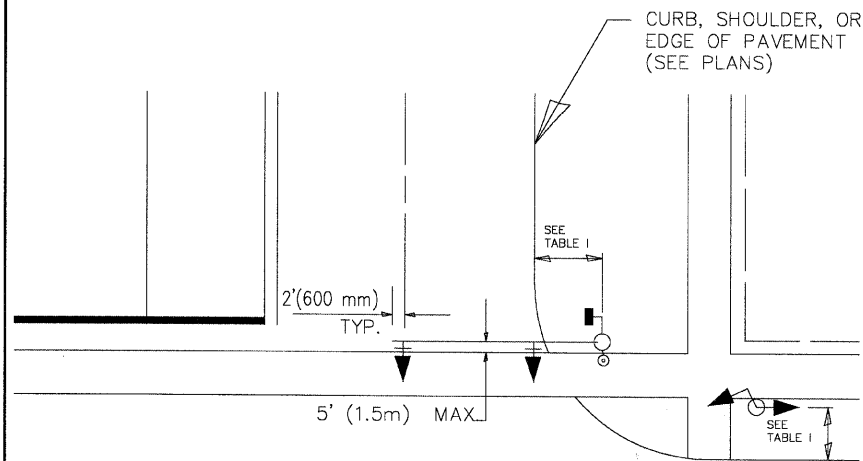
- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- NO. 14 2/C TWISTED, SHIELDED CABLE.
-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

ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	
NAME	DATE
REVISIONS	
VERT. SCALE: NONE	DRAWN BY: RWP
HORZ. SCALE: NONE	DESIGNED BY: DAD
DATE: 1-01-02	CHECKED BY: DAZ
	SHEET 1 OF 4

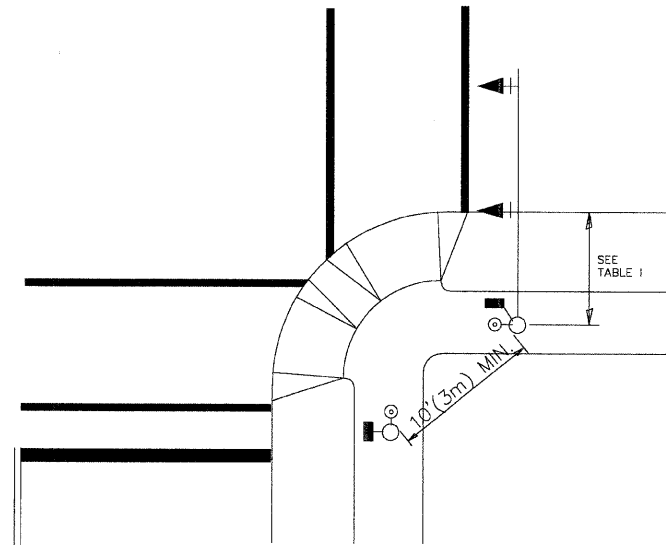
F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET SHTS.	NO.
336	99-00243-00-PV	KANE	268	120
CONTRACT NO. 83782				
STANDARD TRAFFIC SIGNAL DESIGN DETAILS				
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(00B)				

TRAFFIC SIGNAL MAST ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



PEDESTRIAN SIGNAL PUSHBUTTON



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

NOTES:

- AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION, EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.

AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.

PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:
 - ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
 - WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
 - WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
 - PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
 - NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK
- PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

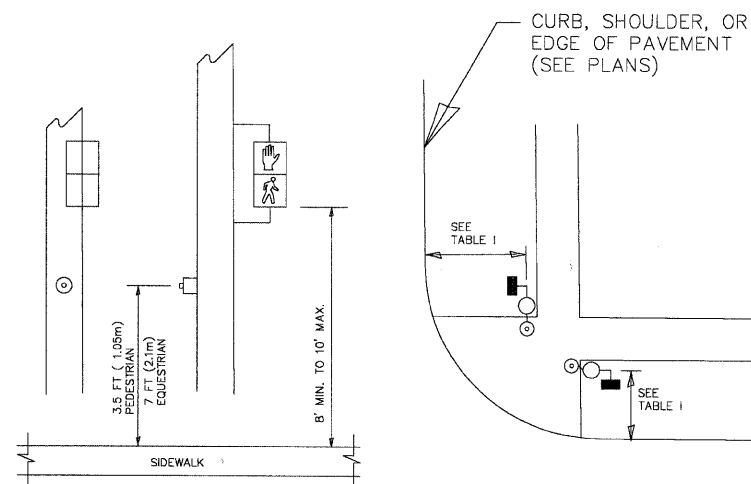
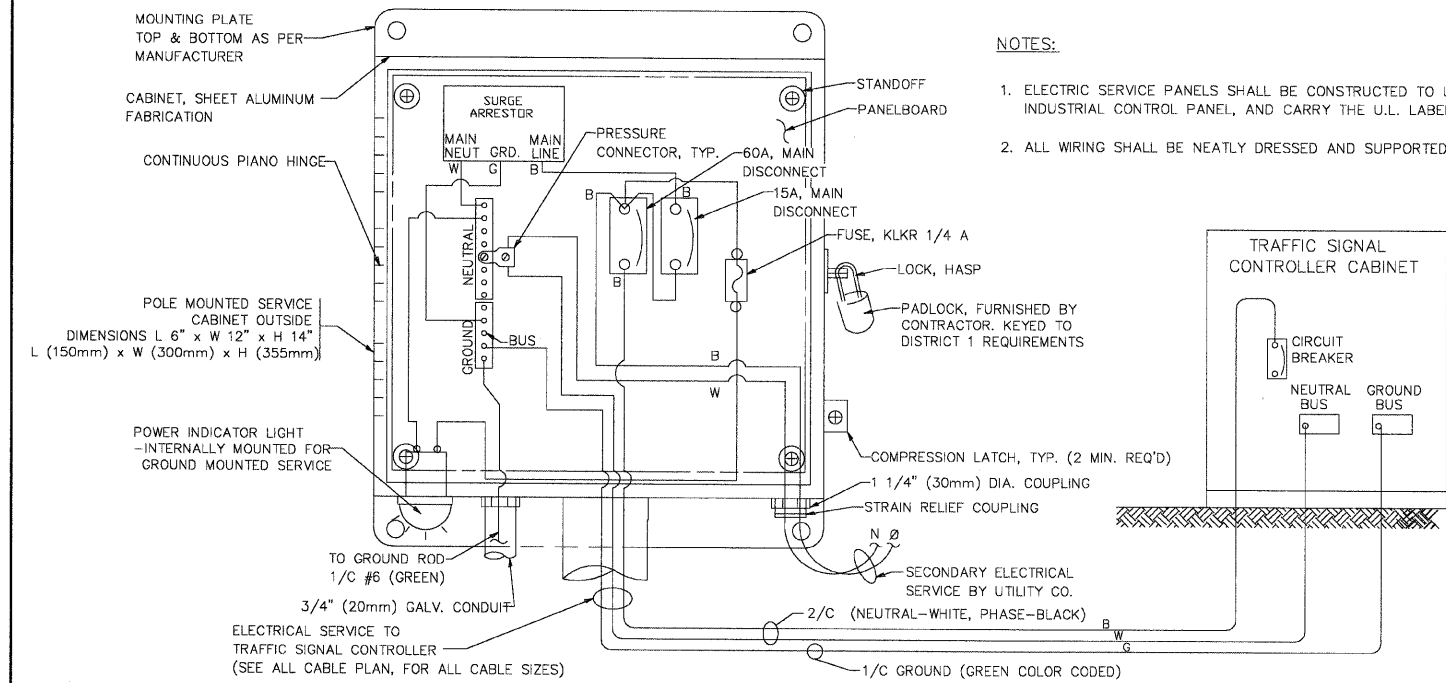


TABLE 1

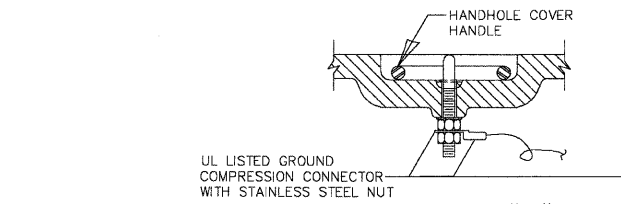
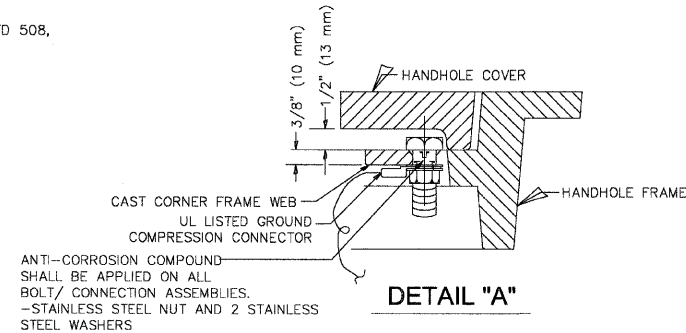
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	
NAME	DATE
REVISIONS	
VERT. SCALE: NONE	HORZ. SCALE: NONE
DATE: 1-01-02	
DRAWN BY: RWP	DESIGNED BY: DAD
CHECKED BY: DAZ	SHEET 2 OF 4

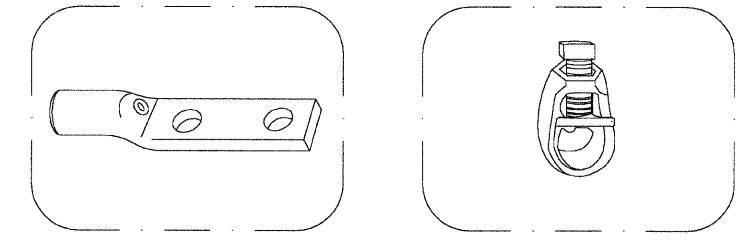
F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET SHTS.	SHEET NO.
336	99-00743-00-PV	KANE	268	121
CONTRACT NO. 83782				
STANDARD TRAFFIC SIGNAL DESIGN DETAILS				
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(00B)				



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



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

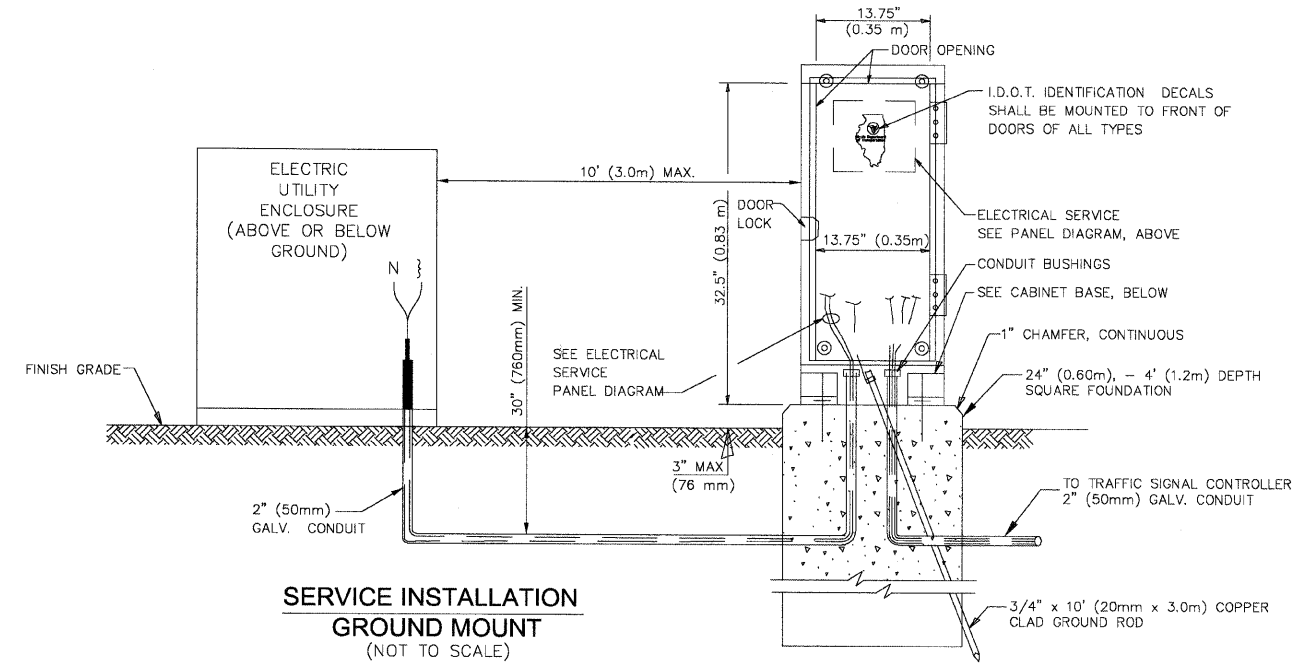


HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL) 3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

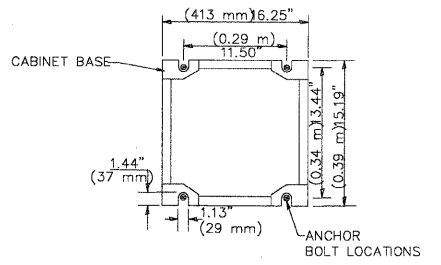
- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES. 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES. 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.

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

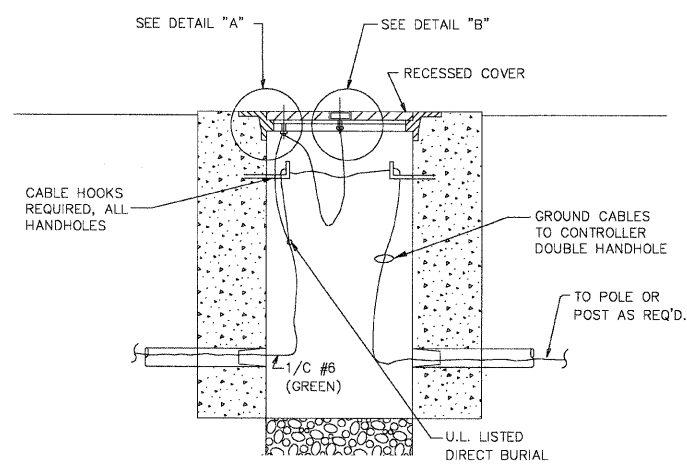
SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)



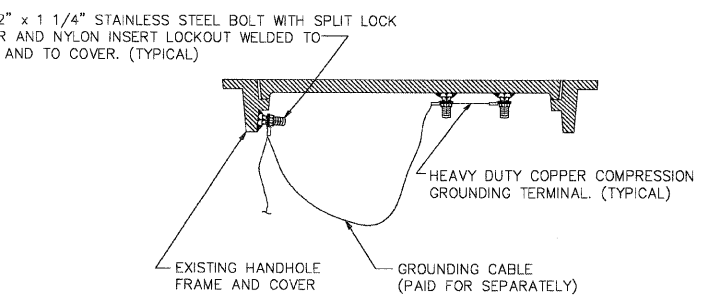
SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)



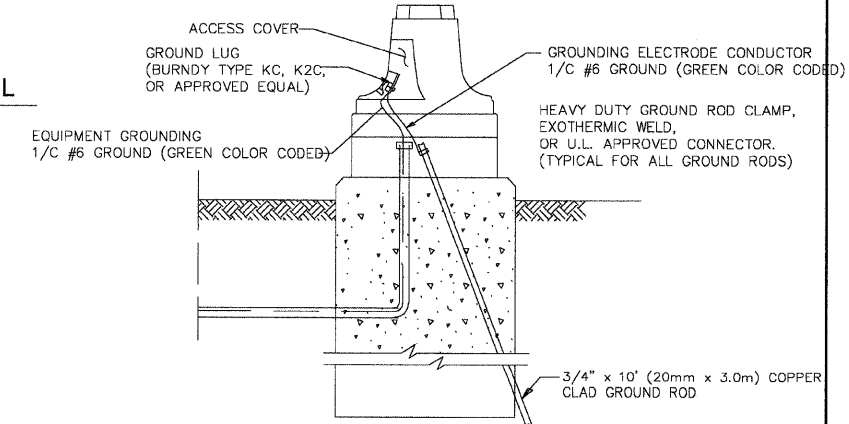
CABINET - BASE BOLT PATTERN (NOT TO SCALE)



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

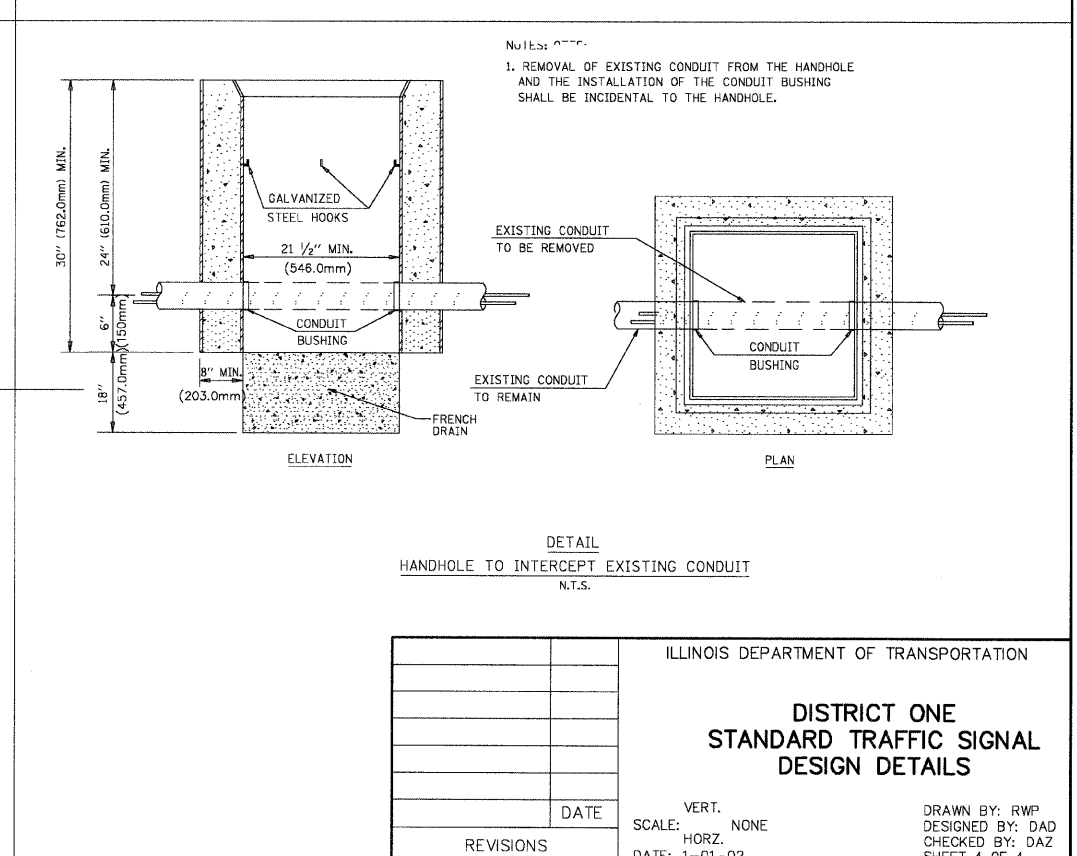
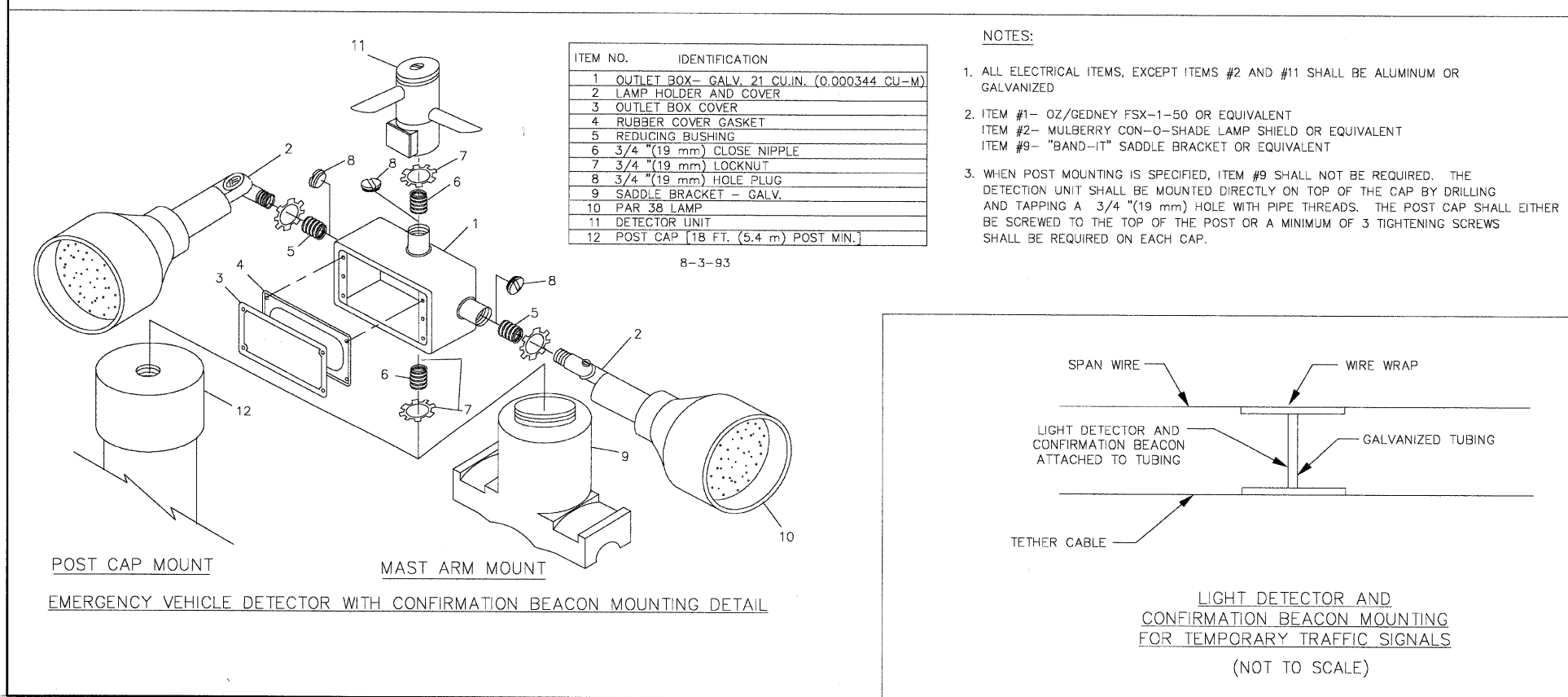
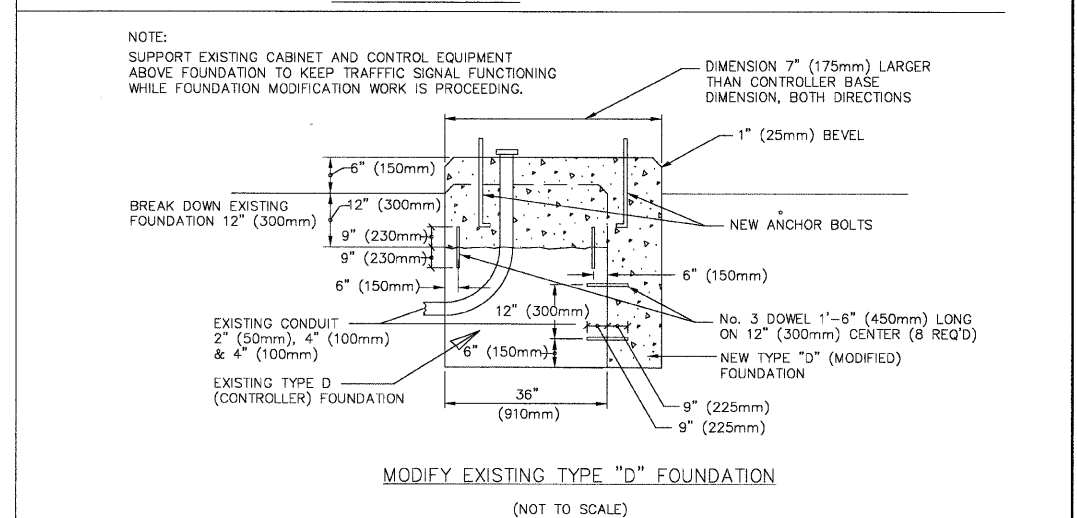
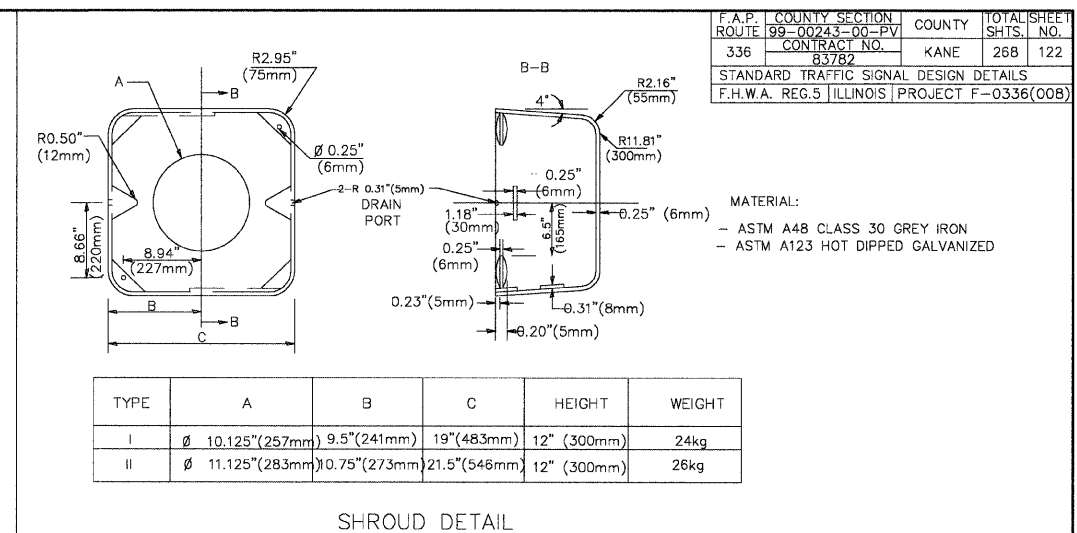
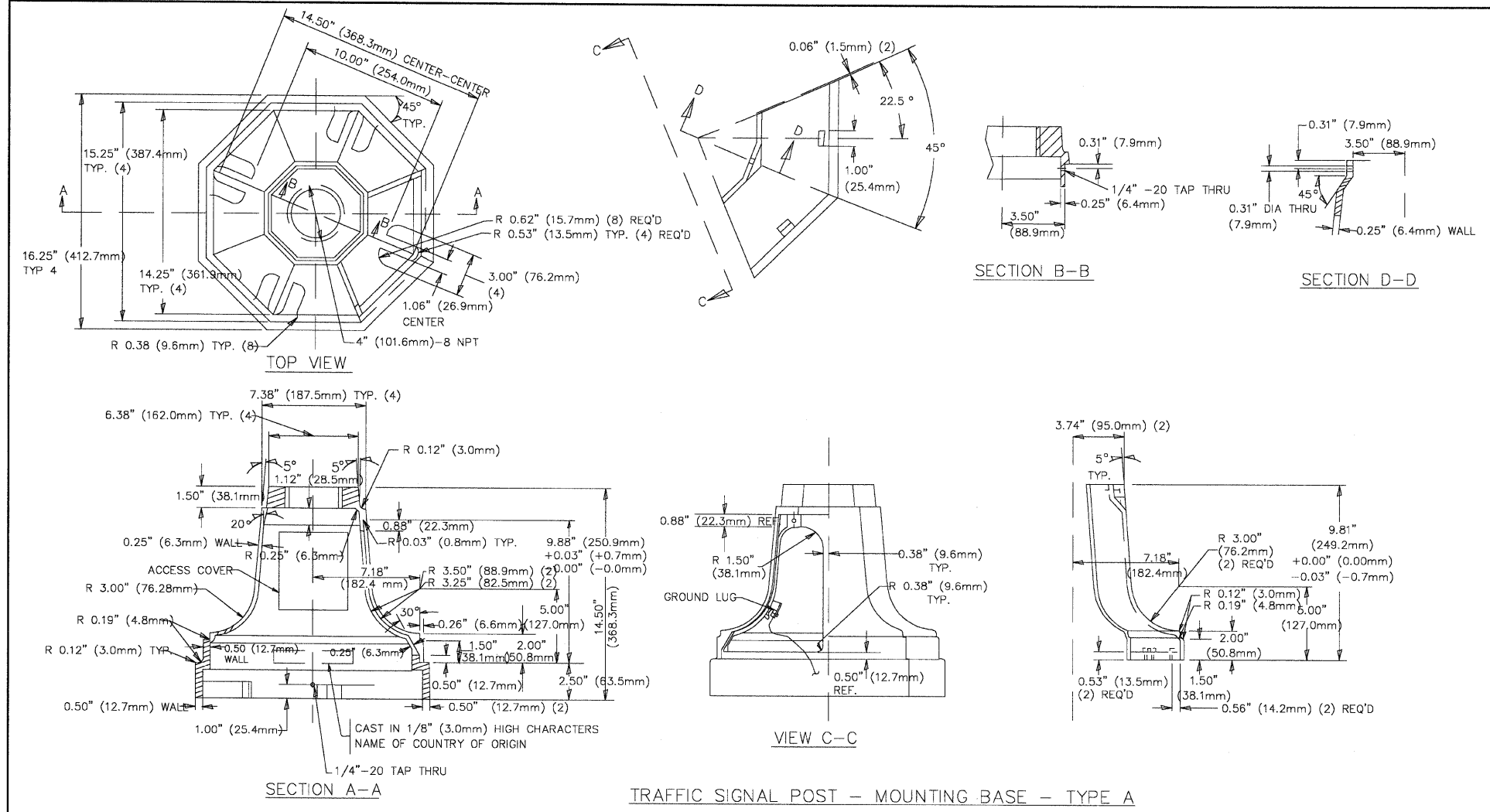


EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)



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

ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	
NAME	DATE
REVISIONS	
VERT. SCALE: NONE	
HORZ. DATE: 1-01-02	
DRAWN BY: RWF	
DESIGNED BY: DAD	
CHECKED BY: DAZ	
SHEET 3 OF 4	



F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEETS
336	99-00243-00-PV	KANE	268
CONTRACT NO. 83782			123
TEMPORARY TRAFFIC SIGNAL INSTALLATION			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(00B)			

PROPOSED TEMPORARY TRAFFIC SIGNAL LEGEND

- ▲ TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
- ▼ TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION
- ⊗ TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MIN.
- ⊠ TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE
- ⊕ TEMPORARY SERVICE INSTALLATION
- TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- ⊙ MACHINE VISION PROCESSOR (MVP)
- PEDESTRIAN PUSHBUTTON DETECTOR
- ⊙ EMERGENCY VEHICLE LIGHT DETECTOR
- ⊙ CONFIRMATION BEACON
- ⊙ TEMPORARY LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400W AND 20' ARM
- VEHICLE DETECTOR, INDUCTION LOOP
- G.S. CONDUIT IN TRENCH (T) OR PUSHED (P) HANDHOLE
- ⊠ HEAVY DUTY HANDHOLE
- CT COMMON TRENCH
- UD UNIT DUCT
- FOCUS AREAS FOR VIDEO DETECTION
- ⊙ YAGI ANTENNA

EXISTING EQUIPMENT TO BE REMOVED LEGEND

- ▲ EXISTING SIGNAL HEAD TO BE REMOVED
- EXISTING SERVICE INSTALLATION TO BE REMOVED
- EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED
- ⊠ EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED
- ⊠ EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED
- ⊠ EXISTING HANDHOLE TO BE REMOVED
- ⊠ EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
- ⊙ EXISTING PEDESTRIAN PUSHBUTTON TO BE REMOVED
- ⊙ EMERGENCY VEHICLE LIGHT DETECTOR TO BE REMOVED
- ⊙ CONFIRMATION BEACON TO BE REMOVED
- ⊠ EXISTING HEAVY-DUTY HANDHOLE TO BE REMOVED
- EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED
- ⊠ EXISTING COMBINATION STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED

NOTE: EXISTING SIGNAL CONDUITS, LOOP DETECTORS AND MAGNETIC DETECTORS SHALL BE ABANDONED.

SCALE: 1" = 20'

1 EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: KANE COUNTY D.O.T.

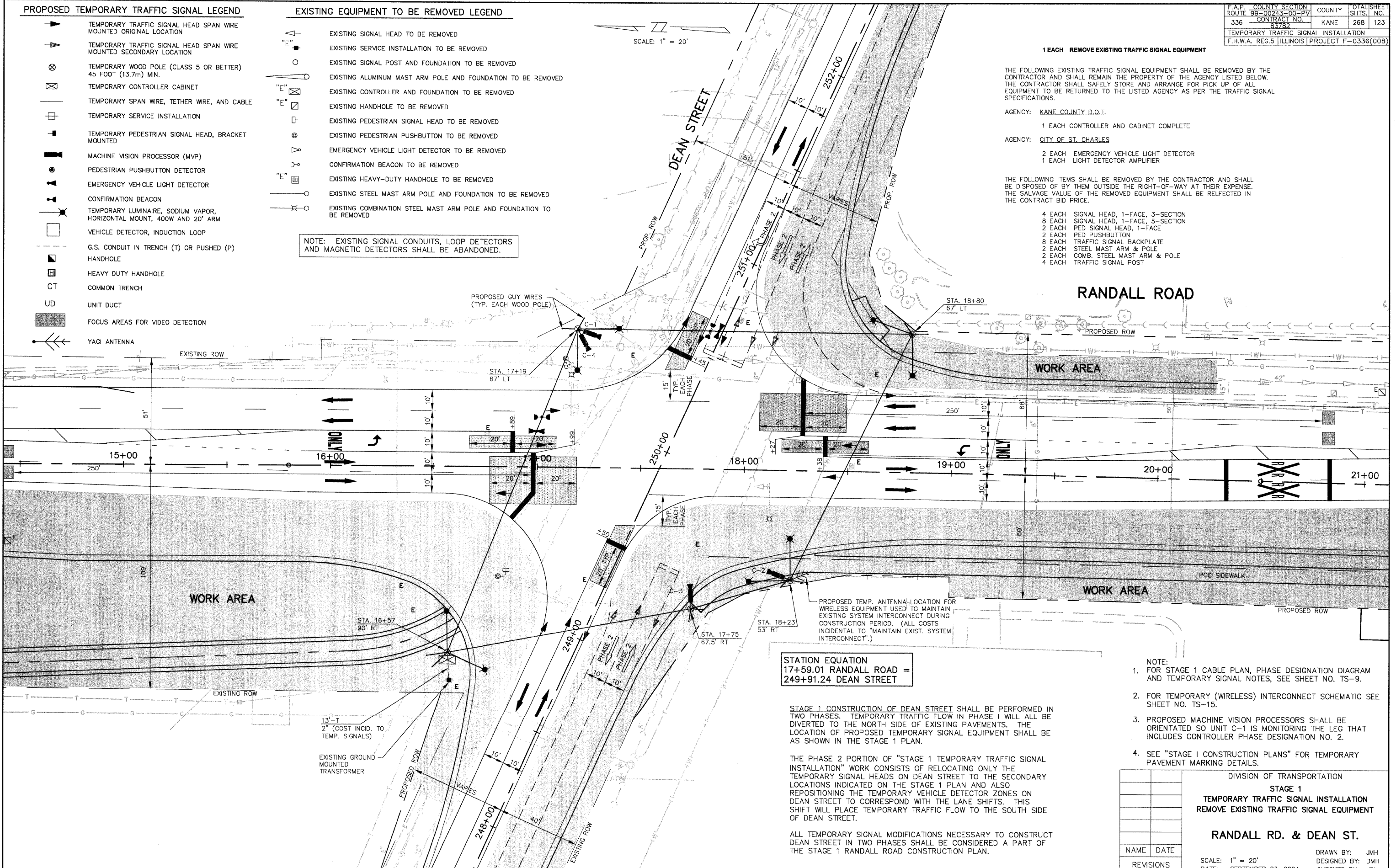
1 EACH CONTROLLER AND CABINET COMPLETE

AGENCY: CITY OF ST. CHARLES

2 EACH EMERGENCY VEHICLE LIGHT DETECTOR
1 EACH LIGHT DETECTOR AMPLIFIER

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.

4 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
8 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
2 EACH PED SIGNAL HEAD, 1-FACE
2 EACH PED PUSHBUTTON
8 EACH TRAFFIC SIGNAL BACKPLATE
2 EACH STEEL MAST ARM & POLE
2 EACH COMB. STEEL MAST ARM & POLE
4 EACH TRAFFIC SIGNAL POST



STATION EQUATION
17+59.01 RANDALL ROAD =
249+91.24 DEAN STREET

STAGE 1 CONSTRUCTION OF DEAN STREET SHALL BE PERFORMED IN TWO PHASES. TEMPORARY TRAFFIC FLOW IN PHASE 1 WILL ALL BE DIVERTED TO THE NORTH SIDE OF EXISTING PAVEMENTS. THE LOCATION OF PROPOSED TEMPORARY SIGNAL EQUIPMENT SHALL BE AS SHOWN IN THE STAGE 1 PLAN.

THE PHASE 2 PORTION OF "STAGE 1 TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK CONSISTS OF RELOCATING ONLY THE TEMPORARY SIGNAL HEADS ON DEAN STREET TO THE SECONDARY LOCATIONS INDICATED ON THE STAGE 1 PLAN AND ALSO REPOSITIONING THE TEMPORARY VEHICLE DETECTOR ZONES ON DEAN STREET TO CORRESPOND WITH THE LANE SHIFTS. THIS SHIFT WILL PLACE TEMPORARY TRAFFIC FLOW TO THE SOUTH SIDE OF DEAN STREET.

ALL TEMPORARY SIGNAL MODIFICATIONS NECESSARY TO CONSTRUCT DEAN STREET IN TWO PHASES SHALL BE CONSIDERED A PART OF THE STAGE 1 RANDALL ROAD CONSTRUCTION PLAN.

- NOTE:
- FOR STAGE 1 CABLE PLAN, PHASE DESIGNATION DIAGRAM AND TEMPORARY SIGNAL NOTES, SEE SHEET NO. TS-9.
 - FOR TEMPORARY (WIRELESS) INTERCONNECT SCHEMATIC SEE SHEET NO. TS-15.
 - PROPOSED MACHINE VISION PROCESSORS SHALL BE ORIENTATED SO UNIT C-1 IS MONITORING THE LEG THAT INCLUDES CONTROLLER PHASE DESIGNATION NO. 2.
 - SEE "STAGE 1 CONSTRUCTION PLANS" FOR TEMPORARY PAVEMENT MARKING DETAILS.

DIVISION OF TRANSPORTATION	
STAGE 1	
TEMPORARY TRAFFIC SIGNAL INSTALLATION	
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	
RANDALL RD. & DEAN ST.	
NAME	DATE
REVISIONS	

SCALE: 1" = 20'
DATE: SEPTEMBER 23, 2004

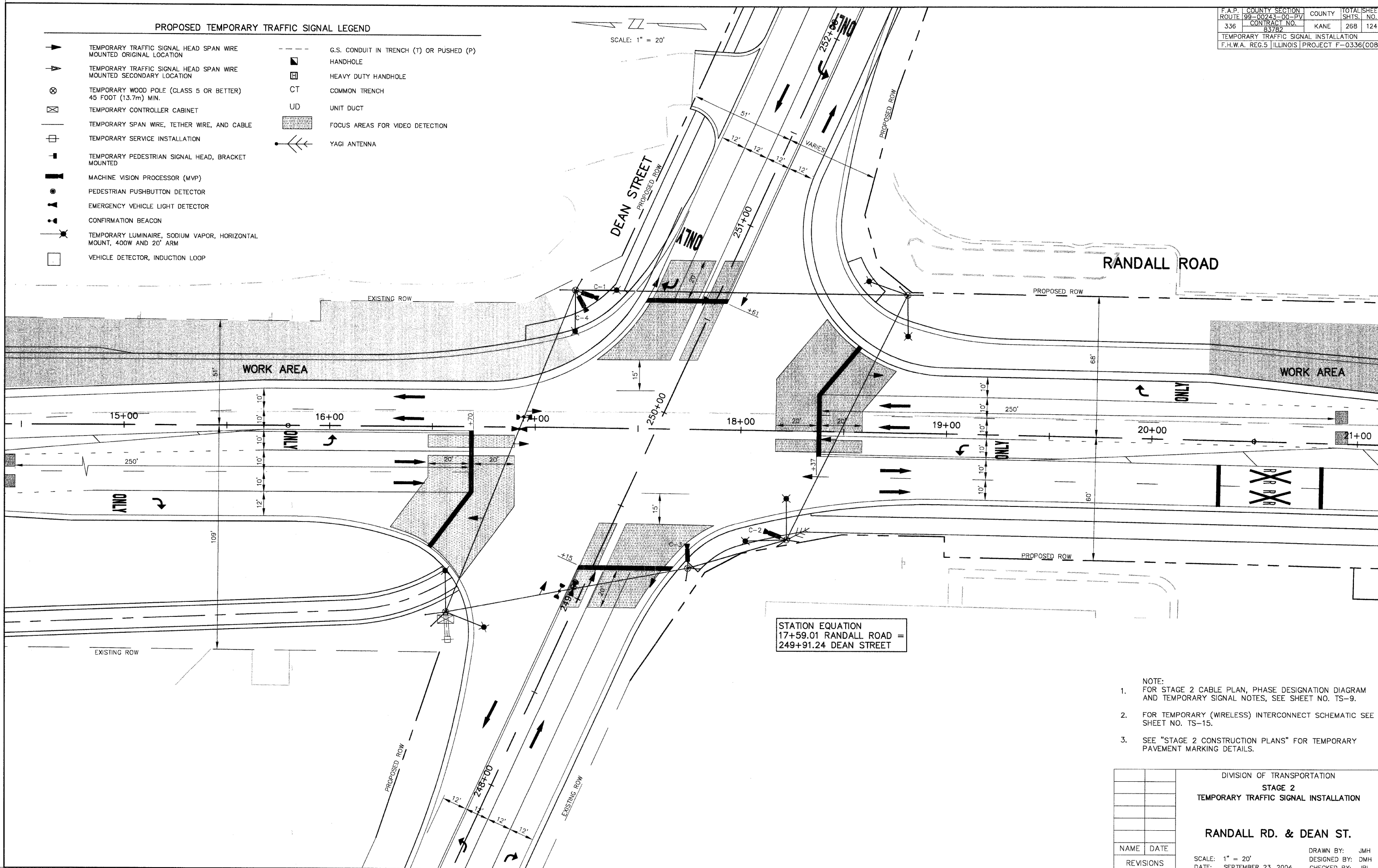
DRAWN BY: JMH
DESIGNED BY: DMH
CHECKED BY: JRL

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
99-00243-00-PV	837B2	KANE	268 124
336	CONTRACT NO.		
	837B2		
TEMPORARY TRAFFIC SIGNAL INSTALLATION			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(00B)			

PROPOSED TEMPORARY TRAFFIC SIGNAL LEGEND

- | | | | |
|---|---|-----|--|
| ▶ | TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION | --- | G.S. CONDUIT IN TRENCH (T) OR PUSHED (P) |
| ▶ | TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION | ■ | HANDHOLE |
| ⊗ | TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MIN. | ▣ | HEAVY DUTY HANDHOLE |
| ⊠ | TEMPORARY CONTROLLER CABINET | CT | COMMON TRENCH |
| — | TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE | UD | UNIT DUCT |
| ⊠ | TEMPORARY SERVICE INSTALLATION | ▨ | FOCUS AREAS FOR VIDEO DETECTION |
| — | TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED | ⊏ | YAGI ANTENNA |
| — | MACHINE VISION PROCESSOR (MVP) | | |
| ● | PEDESTRIAN PUSHBUTTON DETECTOR | | |
| ▲ | EMERGENCY VEHICLE LIGHT DETECTOR | | |
| ● | CONFIRMATION BEACON | | |
| ⊠ | TEMPORARY LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400W AND 20' ARM | | |
| □ | VEHICLE DETECTOR, INDUCTION LOOP | | |

SCALE: 1" = 20'



STATION EQUATION
17+59.01 RANDALL ROAD =
249+91.24 DEAN STREET

- NOTE:
- FOR STAGE 2 CABLE PLAN, PHASE DESIGNATION DIAGRAM AND TEMPORARY SIGNAL NOTES, SEE SHEET NO. TS-9.
 - FOR TEMPORARY (WIRELESS) INTERCONNECT SCHEMATIC SEE SHEET NO. TS-15.
 - SEE "STAGE 2 CONSTRUCTION PLANS" FOR TEMPORARY PAVEMENT MARKING DETAILS.

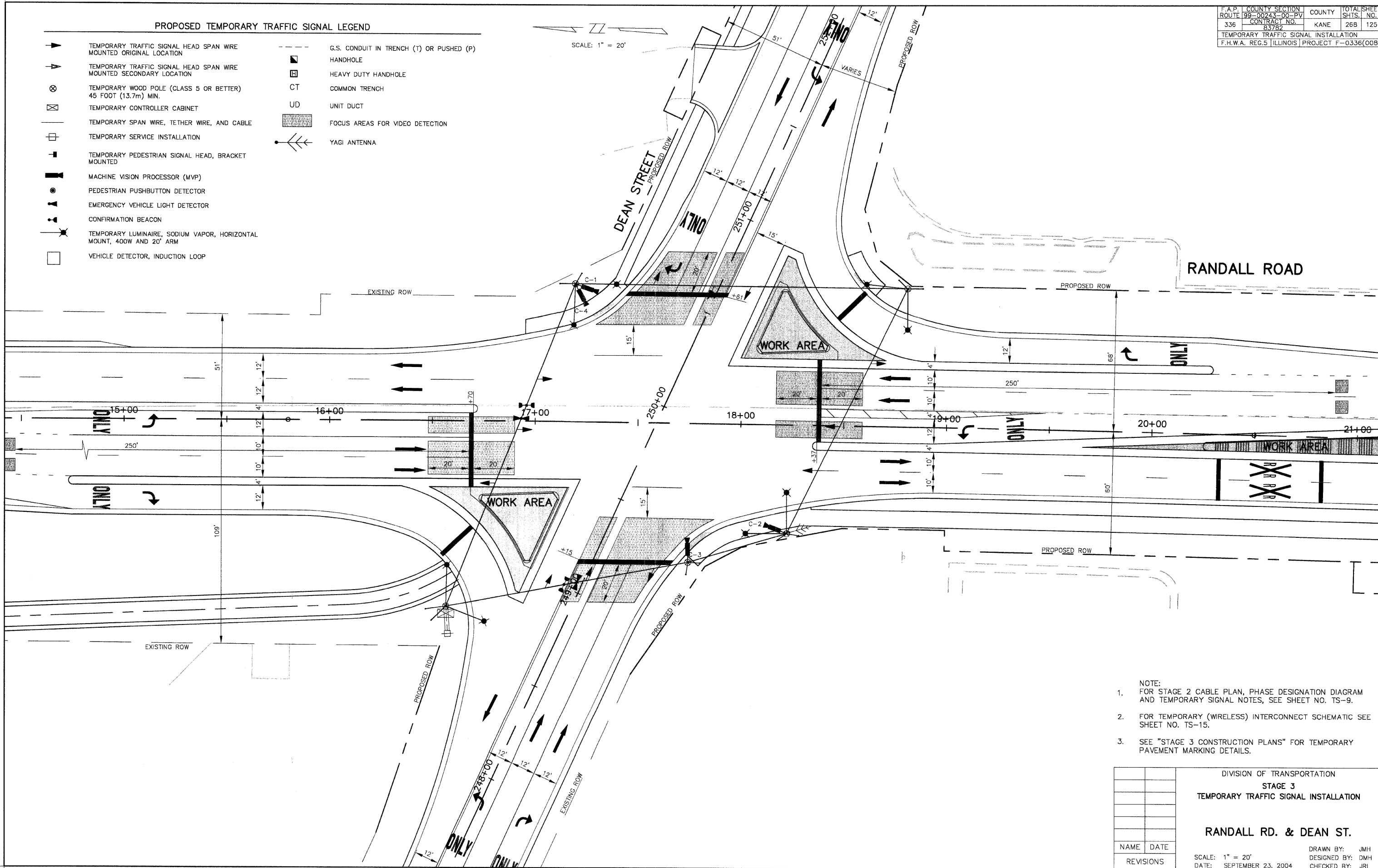
DIVISION OF TRANSPORTATION	
STAGE 2	
TEMPORARY TRAFFIC SIGNAL INSTALLATION	
RANDALL RD. & DEAN ST.	
NAME	DATE
REVISIONS	
SCALE: 1" = 20'	DATE: SEPTEMBER 23, 2004
DRAWN BY: JMH	DESIGNED BY: DMH
CHECKED BY: JRL	

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
	CONTRACT NO.		125
	83782		
TEMPORARY TRAFFIC SIGNAL INSTALLATION			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			

PROPOSED TEMPORARY TRAFFIC SIGNAL LEGEND

- | | | | |
|---|---|-----|--|
| ▲ | TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION | --- | G.S. CONDUIT IN TRENCH (T) OR PUSHED (P) |
| ▼ | TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION | ■ | HANDHOLE |
| ⊗ | TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MIN. | ▣ | HEAVY DUTY HANDHOLE |
| ⊠ | TEMPORARY CONTROLLER CABINET | CT | COMMON TRENCH |
| — | TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE | UD | UNIT DUCT |
| □ | TEMPORARY SERVICE INSTALLATION | ■ | FOCUS AREAS FOR VIDEO DETECTION |
| — | TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED | ⋈ | YAGI ANTENNA |
| ■ | MACHINE VISION PROCESSOR (MVP) | | |
| ● | PEDESTRIAN PUSHBUTTON DETECTOR | | |
| ▲ | EMERGENCY VEHICLE LIGHT DETECTOR | | |
| ★ | CONFIRMATION BEACON | | |
| ⋈ | TEMPORARY LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400W AND 20' ARM | | |
| □ | VEHICLE DETECTOR, INDUCTION LOOP | | |

SCALE: 1" = 20'

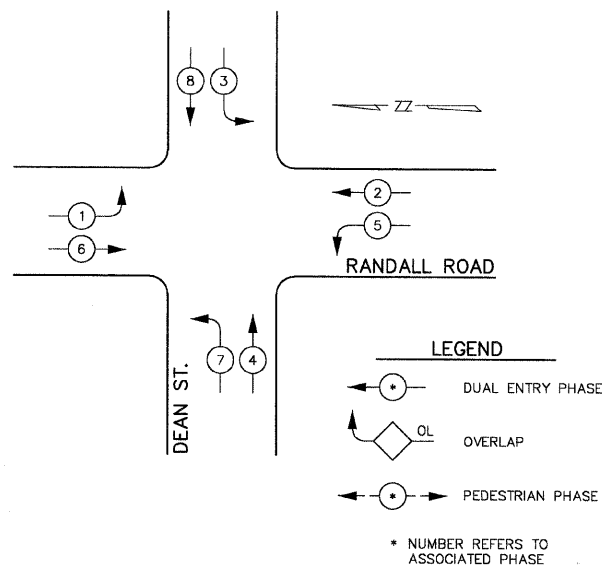


- NOTE:
- FOR STAGE 2 CABLE PLAN, PHASE DESIGNATION DIAGRAM AND TEMPORARY SIGNAL NOTES, SEE SHEET NO. TS-9.
 - FOR TEMPORARY (WIRELESS) INTERCONNECT SCHEMATIC SEE SHEET NO. TS-15.
 - SEE "STAGE 3 CONSTRUCTION PLANS" FOR TEMPORARY PAVEMENT MARKING DETAILS.

DIVISION OF TRANSPORTATION	
STAGE 3	
TEMPORARY TRAFFIC SIGNAL INSTALLATION	
RANDALL RD. & DEAN ST.	
NAME	DATE
REVISIONS	
SCALE: 1" = 20'	DATE: SEPTEMBER 23, 2004
DRAWN BY: JMH	DESIGNED BY: DMH
CHECKED BY: JRL	

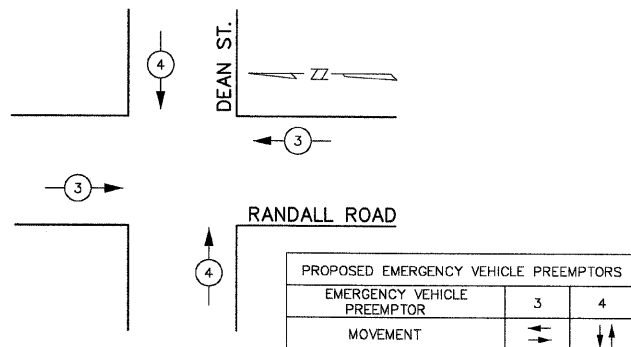
F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEETS
99-00243-00-PV	336	KANE	268
CONTRACT NO.	83782		126
TEMPORARY CABLE PLAN			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(00B)			

STAGE 1, 2 & 3 TEMPORARY TRAFFIC SIGNAL CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

TEMPORARY TRAFFIC SIGNAL EMERGENCY VEHICLE PREEMPTION SEQUENCE



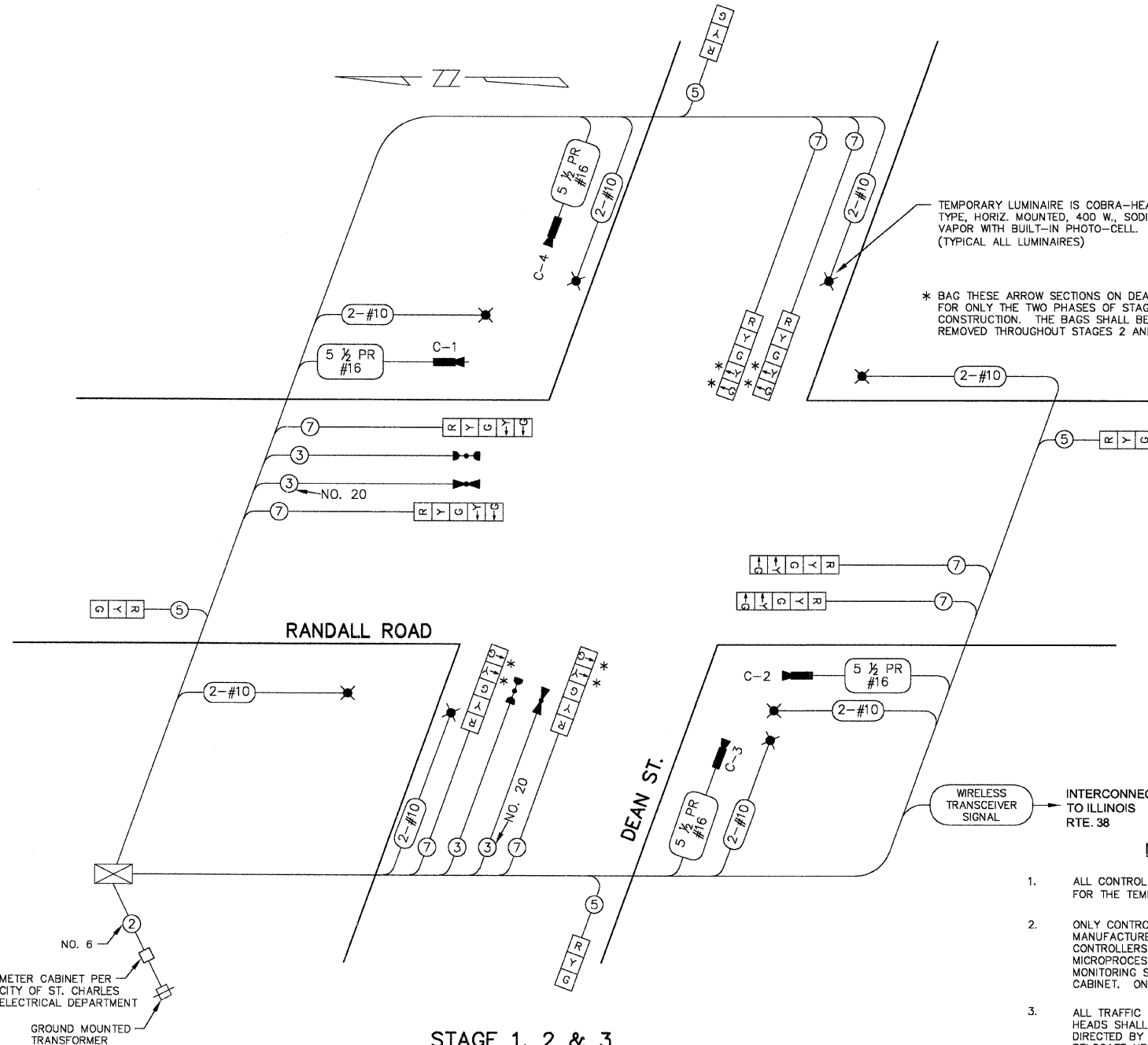
I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	x WATTAGE		% OPERATION	
		INCAND.	LED		
SIGNAL (RED)	12	135	47	0.50	810.0
(YELLOW)	12	135	25	0.25	405.0
(GREEN)	12	135	19	0.25	405.0
ARROW	16	135	12	0.10	216.0
PED. SIGNAL	90	25		1.00	0.0
CONTROLLER	1	100	400	1.00	100.0
ILLUM. SIGN		84		0.05	0.0
VIDEO DETECT	4	23	23	1.00	92.0
LUMINAIRE	8	400		0.50	1600.0
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	3628.0
CITY OF ST. CHARLES 2 EAST MAIN STREET ST. CHARLES, IL 60174					
ENERGY SUPPLY CONTACT: Tom Lesawicz PHONE: (630) 377-4486 COMPANY: St. Charles Electric Department					

TEMPORARY CABLE PLAN LEGEND

- [R] TEMPORARY TRAFFIC SIGNAL SECTION 12"
- [X] TEMPORARY CONTROLLER CABINET
- [□] TEMPORARY SERVICE INSTALLATION
- (5) INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- ▲ EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- [□] VEHICLE DETECTOR, INDUCTION LOOP
- PUSHBUTTON DETECTOR
- [P] 12" PEDESTRIAN SIGNAL SECTION
- MACHINE VISION PROCESSOR
- ✱ TEMPORARY LUMINAIRE, S.V. 400W

TEMPORARY LUMINAIRE IS COBRA-HEAD TYPE, HORIZ. MOUNTED, 400 W., SODIUM VAPOR WITH BUILT-IN PHOTO-CELL. (TYPICAL ALL LUMINAIRES)

* BAG THESE ARROW SECTIONS ON DEAN ST. FOR ONLY THE TWO PHASES OF STAGE 1 CONSTRUCTION. THE BAGS SHALL BE REMOVED THROUGHOUT STAGES 2 AND 3.



STAGE 1, 2 & 3 TEMPORARY TRAFFIC SIGNAL CABLE PLAN

NOTES FOR TEMPORARY TRAFFIC SIGNAL

- 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 ACCTPED FOR ANY ONE CONTRACT.
- ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12" (300mm). 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 CONTRUCTION 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.
- 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.
- ALL TEMPORARY SIGNAL HEADS SHALL USE INCANDESCENT BULBS.

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

DIVISION OF TRANSPORTATION	
STAGE 1, 2 & 3	
TEMPORARY TRAFFIC SIGNAL CABLE PLAN	
PHASE DESIGNATION DIAGRAM	
RANDALL RD. & DEAN STREET	
NAME	DATE
REVISIONS	SCALE: NONE
	DATE: SEPTEMBER 23, 2004
	DRAWN BY: JMH
	DESIGNED BY: DMH
	CHECKED BY: JRL

EXISTING EQUIPMENT TO BE REMOVED LEGEND

- EXISTING SIGNAL HEAD TO BE REMOVED
- EXISTING SERVICE INSTALLATION TO BE REMOVED
- EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED
- EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED
- EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED
- EXISTING HANDHOLE TO BE REMOVED
- EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
- EXISTING PEDESTRIAN PUSHBUTTON TO BE REMOVED
- EMERGENCY VEHICLE LIGHT DETECTOR TO BE REMOVED
- CONFIRMATION BEACON TO BE REMOVED
- EXISTING HEAVY-DUTY HANDHOLE TO BE REMOVED
- EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED

NOTE: EXISTING SIGNAL CONDUITS, LOOP DETECTORS AND MAGNETIC DETECTORS SHALL BE ABANDONED.

1 EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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

1 EACH CONTROLLER AND CABINET COMPLETE

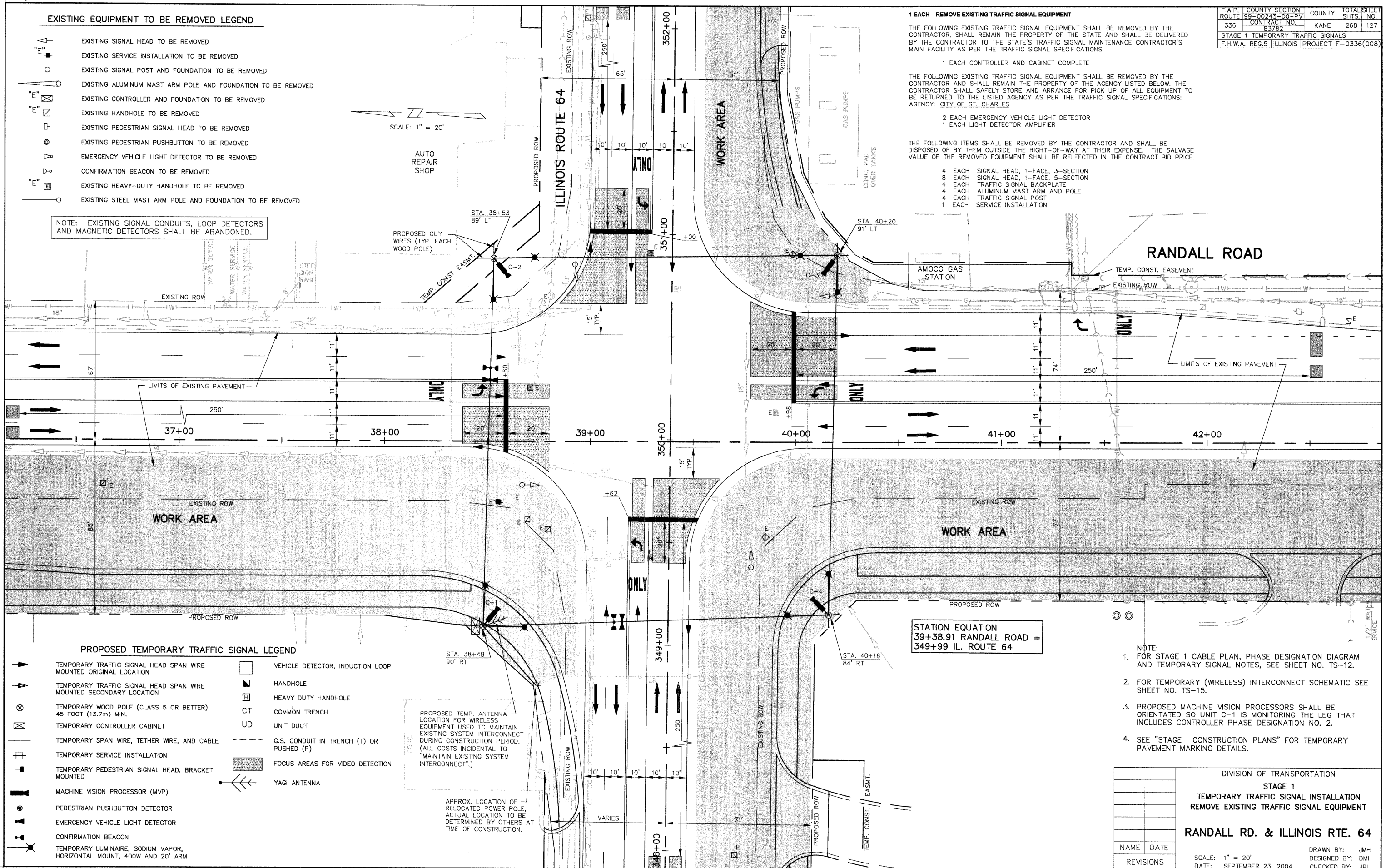
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS: AGENCY: CITY OF ST. CHARLES

2 EACH EMERGENCY VEHICLE LIGHT DETECTOR
1 EACH LIGHT DETECTOR AMPLIFIER

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.

4 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
8 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
4 EACH TRAFFIC SIGNAL BACKPLATE
4 EACH ALUMINUM MAST ARM AND POLE
4 EACH TRAFFIC SIGNAL POST
1 EACH SERVICE INSTALLATION

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEETS
99-00243-00-PV	336	KANE	268
CONTRACT NO.	83782		127
STAGE 1 TEMPORARY TRAFFIC SIGNALS			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



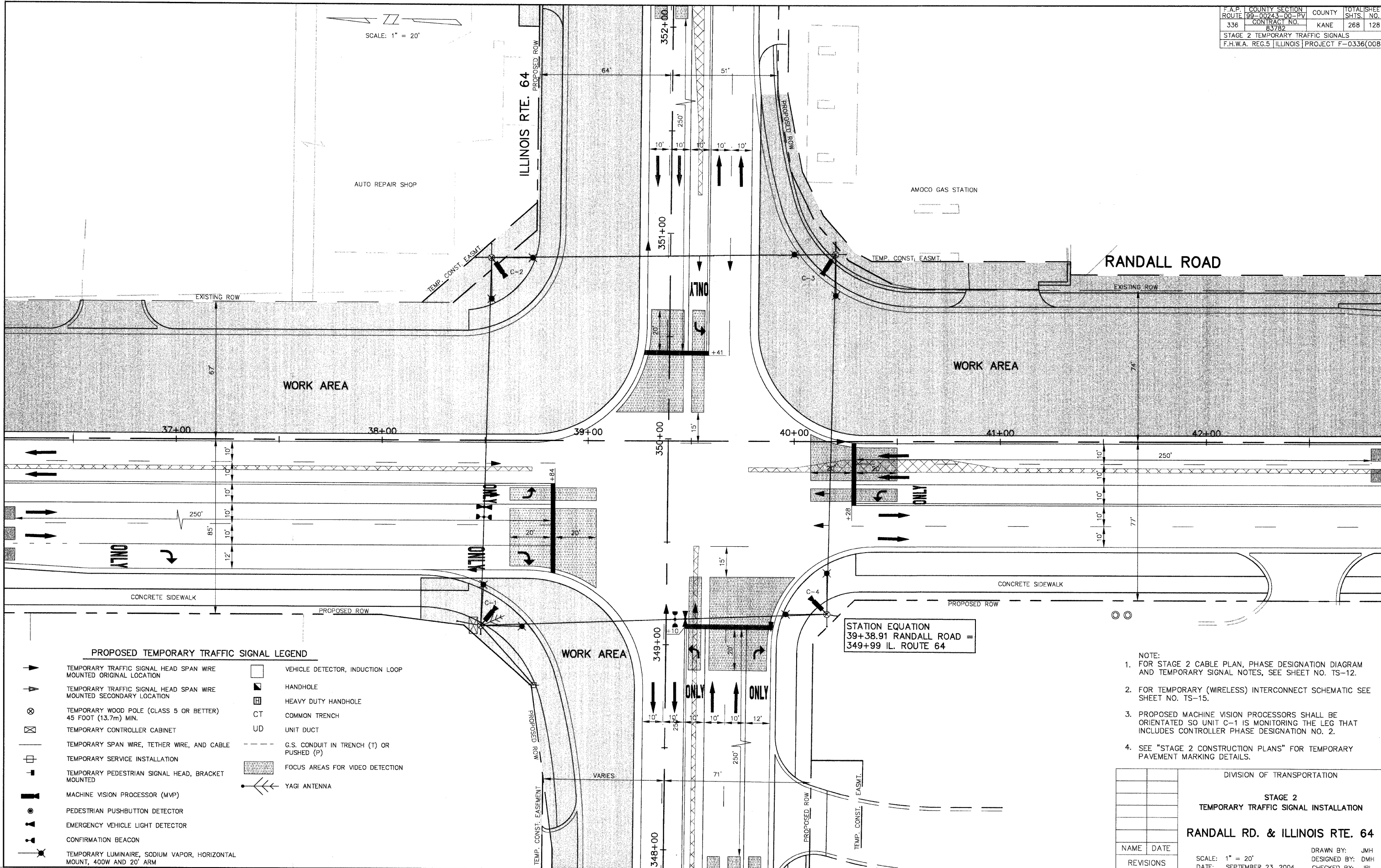
PROPOSED TEMPORARY TRAFFIC SIGNAL LEGEND

- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION
- TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MIN.
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE
- TEMPORARY SERVICE INSTALLATION
- TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- MACHINE VISION PROCESSOR (MVP)
- PEDESTRIAN PUSHBUTTON DETECTOR
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- TEMPORARY LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400W AND 20' ARM
- VEHICLE DETECTOR, INDUCTION LOOP
- HANDHOLE
- HEAVY DUTY HANDHOLE
- COMMON TRENCH
- UNIT DUCT
- G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)
- FOCUS AREAS FOR VIDEO DETECTION
- YAGI ANTENNA

- NOTE:
- FOR STAGE 1 CABLE PLAN, PHASE DESIGNATION DIAGRAM AND TEMPORARY SIGNAL NOTES, SEE SHEET NO. TS-12.
 - FOR TEMPORARY (WIRELESS) INTERCONNECT SCHEMATIC SEE SHEET NO. TS-15.
 - PROPOSED MACHINE VISION PROCESSORS SHALL BE ORIENTATED SO UNIT C-1 IS MONITORING THE LEG THAT INCLUDES CONTROLLER PHASE DESIGNATION NO. 2.
 - SEE "STAGE I CONSTRUCTION PLANS" FOR TEMPORARY PAVEMENT MARKING DETAILS.

DIVISION OF TRANSPORTATION	
STAGE 1	
TEMPORARY TRAFFIC SIGNAL INSTALLATION	
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	
RANDALL RD. & ILLINOIS RTE. 64	
NAME	DATE
REVISIONS	
SCALE: 1" = 20'	DRAWN BY: JMH
DATE: SEPTEMBER 23, 2004	DESIGNED BY: DMH
	CHECKED BY: JRL

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
	CONTRACT NO.		SHTS. NO.
	83782		128
STAGE 2 TEMPORARY TRAFFIC SIGNALS			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



PROPOSED TEMPORARY TRAFFIC SIGNAL LEGEND

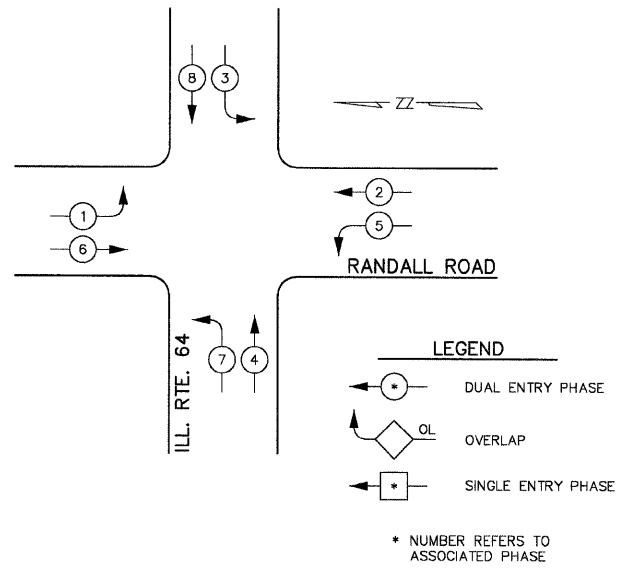
- | | | | |
|---|---|-----|--|
| ▶ | TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION | □ | VEHICLE DETECTOR, INDUCTION LOOP |
| ▶ | TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION | ■ | HANDHOLE |
| ⊗ | TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MIN. | ▣ | HEAVY DUTY HANDHOLE |
| ⊠ | TEMPORARY CONTROLLER CABINET | CT | COMMON TRENCH |
| — | TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE | UD | UNIT DUCT |
| — | TEMPORARY SERVICE INSTALLATION | --- | G.S. CONDUIT IN TRENCH (T) OR PUSHED (P) |
| — | TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED | ▨ | FOCUS AREAS FOR VIDEO DETECTION |
| — | MACHINE VISION PROCESSOR (MVP) | Y | YAGI ANTENNA |
| — | PEDESTRIAN PUSHBUTTON DETECTOR | | |
| — | EMERGENCY VEHICLE LIGHT DETECTOR | | |
| — | CONFIRMATION BEACON | | |
| — | TEMPORARY LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400W AND 20' ARM | | |

- NOTE:
- FOR STAGE 2 CABLE PLAN, PHASE DESIGNATION DIAGRAM AND TEMPORARY SIGNAL NOTES, SEE SHEET NO. TS-12.
 - FOR TEMPORARY (WIRELESS) INTERCONNECT SCHEMATIC SEE SHEET NO. TS-15.
 - PROPOSED MACHINE VISION PROCESSORS SHALL BE ORIENTATED SO UNIT C-1 IS MONITORING THE LEG THAT INCLUDES CONTROLLER PHASE DESIGNATION NO. 2.
 - SEE "STAGE 2 CONSTRUCTION PLANS" FOR TEMPORARY PAVEMENT MARKING DETAILS.

DIVISION OF TRANSPORTATION	
STAGE 2 TEMPORARY TRAFFIC SIGNAL INSTALLATION	
RANDALL RD. & ILLINOIS RTE. 64	
NAME	DATE
REVISIONS	
SCALE: 1" = 20'	DATE: SEPTEMBER 23, 2004
DRAWN BY: JMH	DESIGNED BY: DMH
	CHECKED BY: JRL

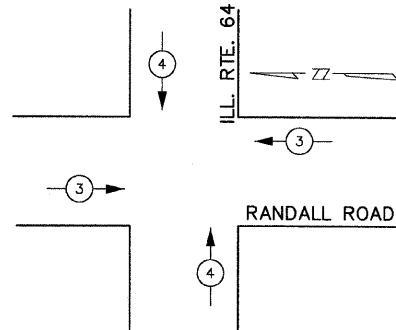
F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
CONTRACT NO. 83782			129
TEMPORARY CABLE PLAN			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			

STAGE 1 & 2 TEMPORARY TRAFFIC SIGNAL CONTROLLER SEQUENCE

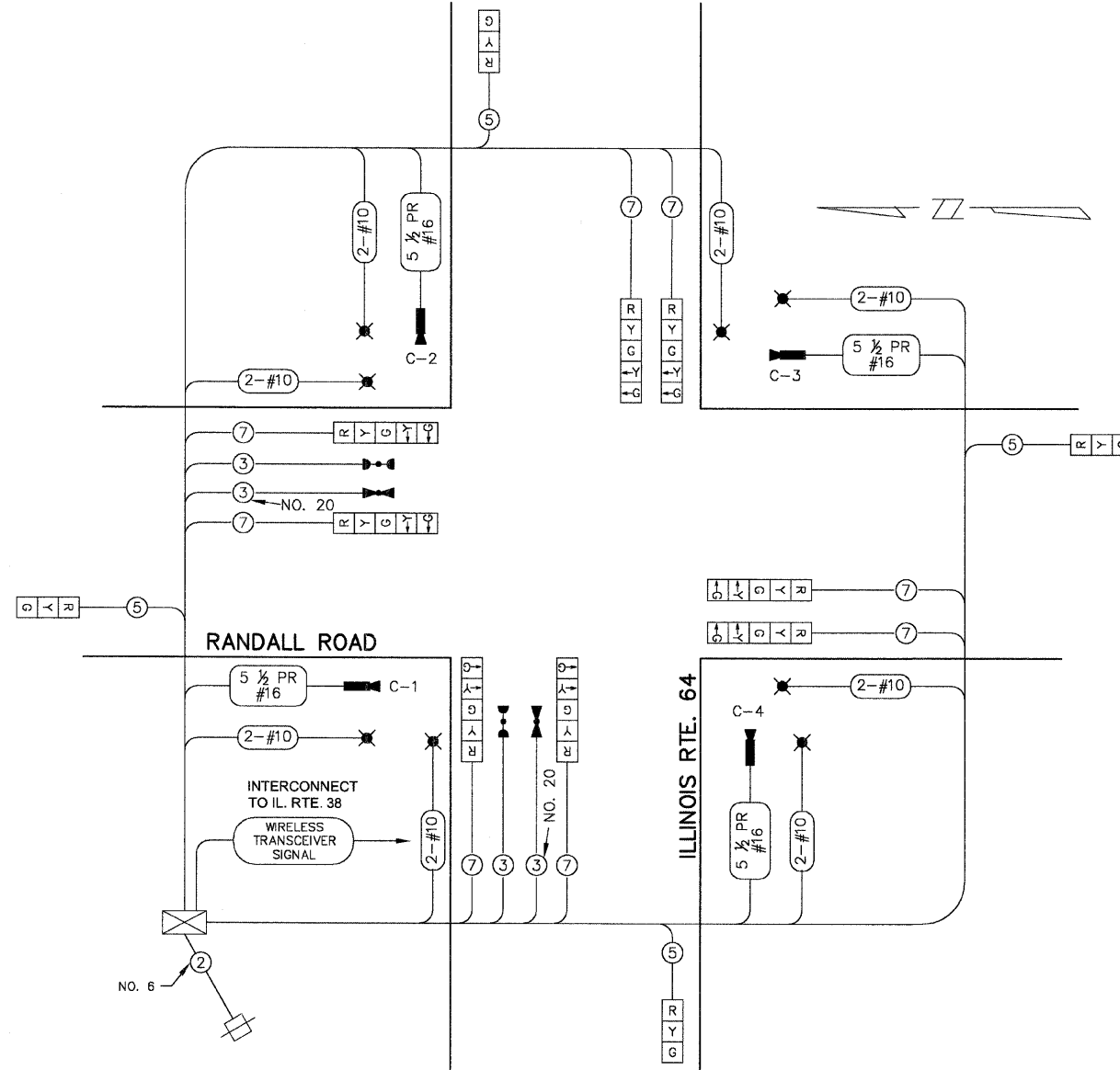


PHASE DESIGNATION DIAGRAM

TEMPORARY TRAFFIC SIGNAL EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↕



STAGE 1 & 2 TEMPORARY TRAFFIC SIGNAL CABLE PLAN

TEMPORARY CABLE PLAN LEGEND

- TEMPORARY TRAFFIC SIGNAL SECTION 12"
- TEMPORARY CONTROLLER
- TEMPORARY SERVICE INSTALLATION
- INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- PEDESTRIAN PUSHBUTTON DETECTOR
- 12" PEDESTRIAN SIGNAL SECTION
- MACHINE VISION PROCESSOR (MVP)
- TEMPORARY LUMINAIRE, S.V. 400 W

NOTES FOR TEMPORARY TRAFFIC SIGNAL

- 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 12" (300mm). 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.
- 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.
- ALL TEMPORARY SIGNAL HEADS SHALL USE INCANDESCENT BULBS.

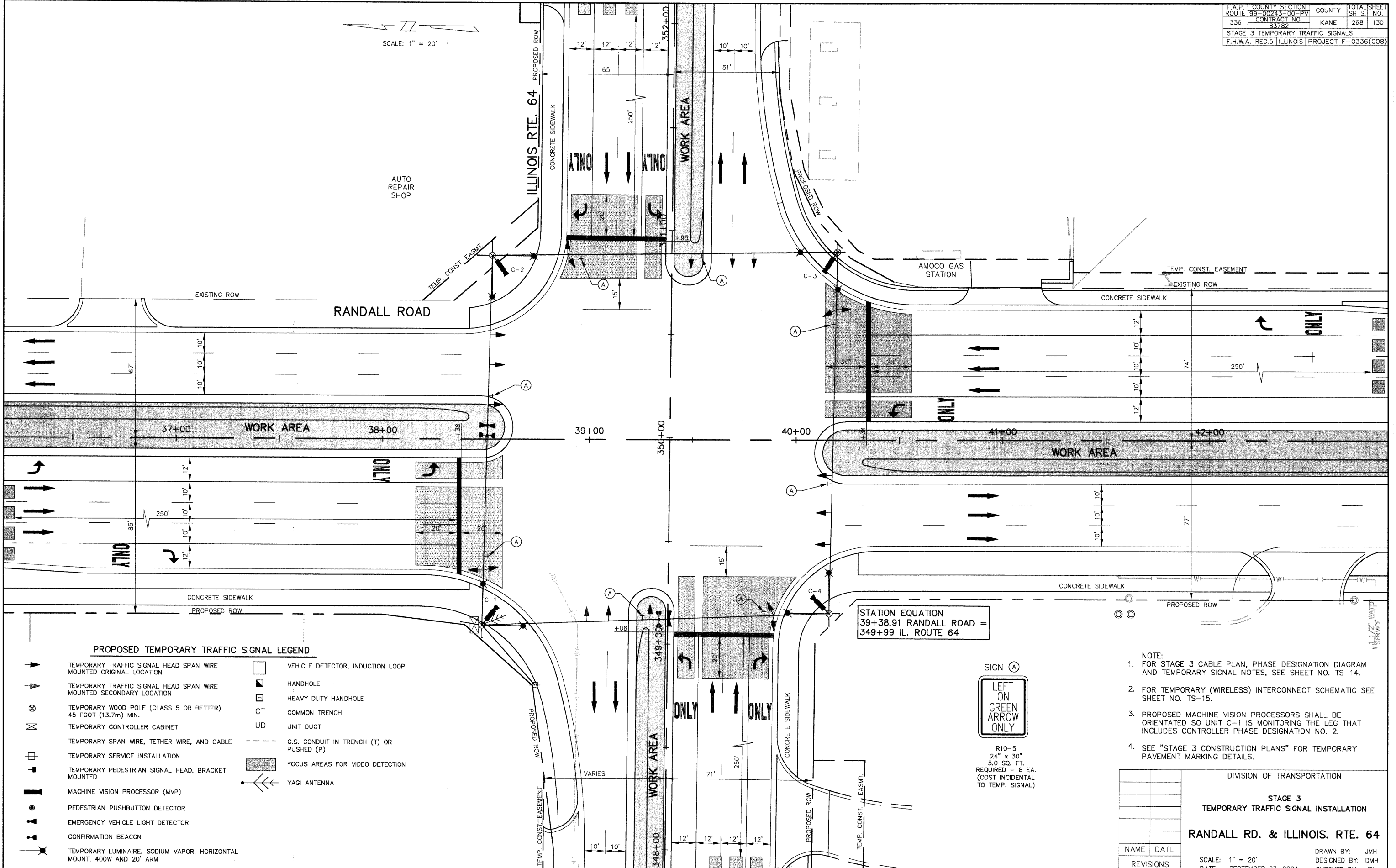
TYPE	NO. LAMPS	x WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	12	135	27	0.50	810.0
(YELLOW)	12	135	27	0.25	405.0
(GREEN)	12	135	27	0.25	405.0
ARROW	16	135	27	0.10	216.0
PED. SIGNAL		90	27	1.00	0.0
CONTROLLER	1	100		1.00	100.0
ILLUM. SIGN		84		0.05	0.0
VIDEO DETECT	4	23	27	1.00	92.0
LUMINAIRE	4	400		0.50	800.0
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	2828.0

CITY OF ST. CHARLES
2 EAST MAIN STREET
ST. CHARLES, IL 60174

ENERGY SUPPLY CONTACT: Tom Lesiewicz
PHONE: (630) 377-4486
COMPANY: St. Charles Electric Department

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

DIVISION OF TRANSPORTATION	
STAGE 1 & 2	
TEMPORARY TRAFFIC SIGNAL CABLE PLAN	
PHASE DESIGNATION DIAGRAM	
RANDALL RD. & ILLINOIS RTE. 64	
NAME	DATE
REVISIONS	SCALE: NONE
	DATE: SEPTEMBER 23, 2004
	DRAWN BY: JMH
	DESIGNED BY: DMH
	CHECKED BY: JRL



PROPOSED TEMPORARY TRAFFIC SIGNAL LEGEND

- | | | | |
|---|---|-------|--|
| ▶ | TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION | □ | VEHICLE DETECTOR, INDUCTION LOOP |
| ▶ | TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION | ■ | HANDHOLE |
| ⊗ | TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MIN. | ▣ | HEAVY DUTY HANDHOLE |
| ⊠ | TEMPORARY CONTROLLER CABINET | CT | COMMON TRENCH |
| — | TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE | UD | UNIT DUCT |
| ⊠ | TEMPORARY SERVICE INSTALLATION | - - - | G.S. CONDUIT IN TRENCH (T) OR PUSHED (P) |
| ■ | TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED | ■ | FOCUS AREAS FOR VIDEO DETECTION |
| ■ | MACHINE VISION PROCESSOR (MVP) | ⋈ | YAGI ANTENNA |
| ● | PEDESTRIAN PUSHBUTTON DETECTOR | | |
| ▲ | EMERGENCY VEHICLE LIGHT DETECTOR | | |
| ● | CONFIRMATION BEACON | | |
| ⋈ | TEMPORARY LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400W AND 20' ARM | | |

- NOTE:
1. FOR STAGE 3 CABLE PLAN, PHASE DESIGNATION DIAGRAM AND TEMPORARY SIGNAL NOTES, SEE SHEET NO. TS-14.
 2. FOR TEMPORARY (WIRELESS) INTERCONNECT SCHEMATIC SEE SHEET NO. TS-15.
 3. PROPOSED MACHINE VISION PROCESSORS SHALL BE ORIENTATED SO UNIT C-1 IS MONITORING THE LEG THAT INCLUDES CONTROLLER PHASE DESIGNATION NO. 2.
 4. SEE "STAGE 3 CONSTRUCTION PLANS" FOR TEMPORARY PAVEMENT MARKING DETAILS.

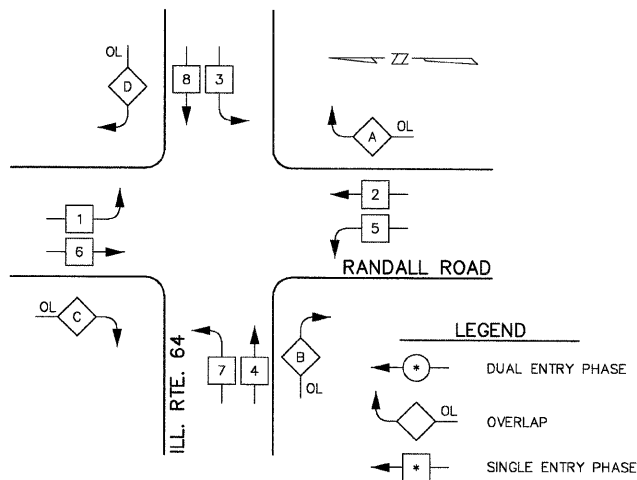


R10-5
24" x 30"
5.0 SQ. FT.
REQUIRED - 8 EA.
(COST INCIDENTAL TO TEMP. SIGNAL)

DIVISION OF TRANSPORTATION	
STAGE 3 TEMPORARY TRAFFIC SIGNAL INSTALLATION	
RANDALL RD. & ILLINOIS. RTE. 64	
NAME	DATE
REVISIONS	SCALE: 1" = 20'
	DATE: SEPTEMBER 23, 2004
	DRAWN BY: JMH
	DESIGNED BY: DMH
	CHECKED BY: JRL

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEETS	SHTS. NO.
99-00243-00-PV	336	KANE	268	131
CONTRACT NO. 83782		TEMPORARY CABLE PLAN		
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)				

STAGE 3 TEMPORARY TRAFFIC SIGNAL CONTROLLER SEQUENCE

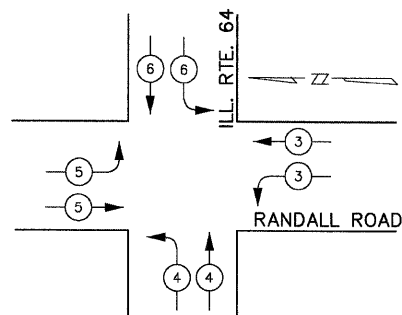


PHASE DESIGNATION DIAGRAM

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

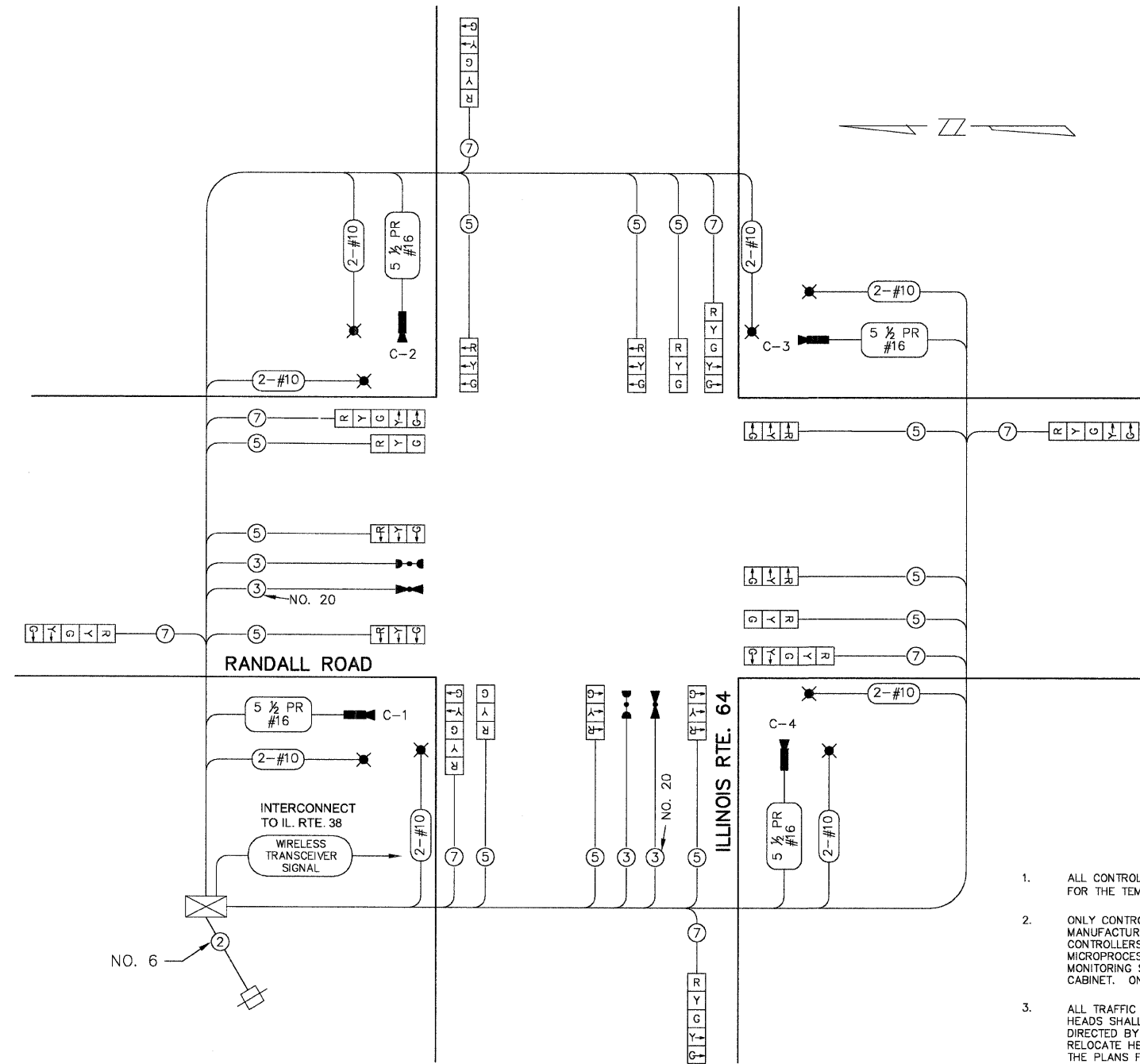
* NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY TRAFFIC SIGNAL EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	←	↑	→	↓

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	x WATTAGE		% OPERATION	
		INCAND.	LED		
SIGNAL (RED)	20	135	28	0.50	1350.0
(YELLOW)	20	135	28	0.25	675.0
(GREEN)	20	135	28	0.25	675.0
ARROW	16	135	28	0.10	216.0
PED. SIGNAL		90	28	1.00	0.0
CONTROLLER	1	100		1.00	100.0
ILLUM. SIGN		84		0.05	0.0
VIDEO DETECT	4	23	28	1.00	92.0
LUMINAIRE	8	400		0.50	1600.0
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	4708.0
CITY OF ST. CHARLES 2 EAST MAIN STREET ST. CHARLES, IL. 60174					
CONTACT: Tom Leskiewicz PHONE: (630) 377-4496 COMPANY: St. Charles Electric Department					



STAGE 3 TEMPORARY TRAFFIC SIGNAL CABLE PLAN

TEMPORARY CABLE PLAN LEGEND

- [R] TEMPORARY TRAFFIC SIGNAL SECTION 12"
- [X] TEMPORARY CONTROLLER
- [] TEMPORARY SERVICE INSTALLATION
- (5) INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- [] EMERGENCY VEHICLE LIGHT DETECTOR
- [] CONFIRMATION BEACON
- [] VEHICLE DETECTOR, INDUCTION LOOP
- [] PEDESTRIAN PUSHBUTTON DETECTOR
- [] 12" PEDESTRIAN SIGNAL SECTION
- [] MACHINE VISION PROCESSOR (MVP)
- [] TEMPORARY LUMINAIRE, S.V. 400 W

NOTES FOR TEMPORARY TRAFFIC SIGNAL

- 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 12" (300mm). 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.
- 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.
- ALL TEMPORARY SIGNAL HEADS SHALL USE INCANDESCENT BULBS.

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

DIVISION OF TRANSPORTATION	
STAGE 3 TEMPORARY TRAFFIC SIGNAL CABLE PLAN PHASE DESIGNATION DIAGRAM	
RANDALL RD. & ILLINOIS RTE. 64	
NAME	DATE
REVISIONS	
SCALE: NONE	DRAWN BY: JMH
DATE: SEPTEMBER 23, 2004	DESIGNED BY: DMH
	CHECKED BY: JRL

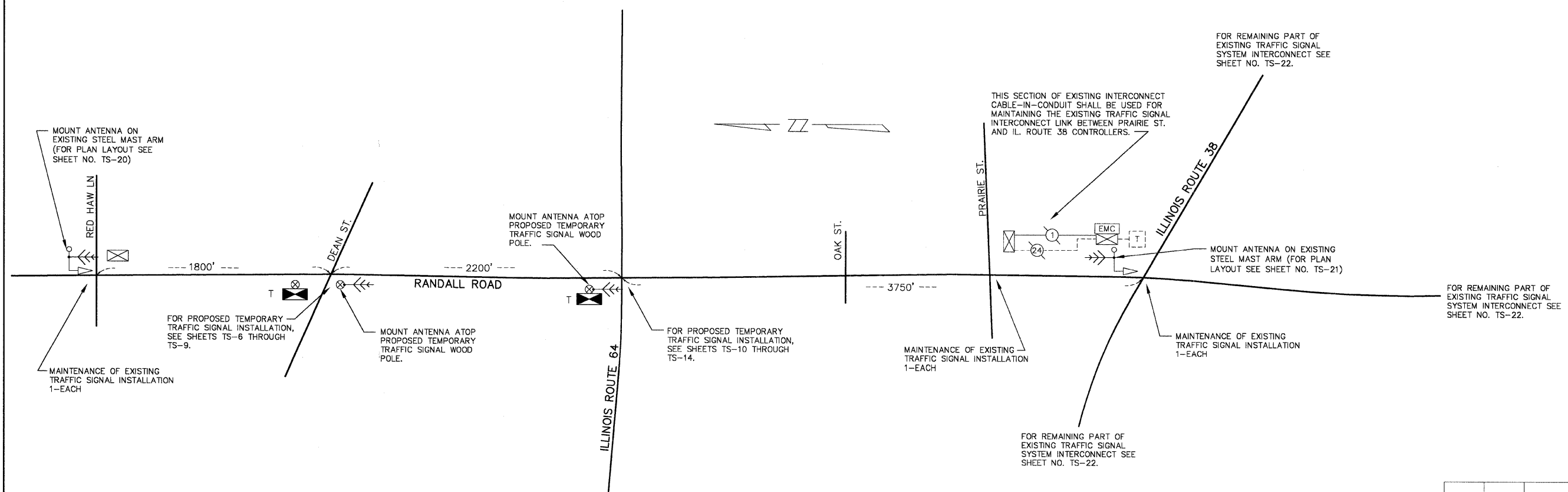
F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET SHITS	NO.
336	99-00243-00-PV	KANE	268	132
CONTRACT NO. 83782				
TEMPORARY INTERCONNECT SCHEMATIC				
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(00B)				

TEMPORARY TRAFFIC SIGNAL INTERCONNECT SCHEDULE OF QUANTITIES

- 1 L. SUM MAINTAIN EXISTING TRAFFIC SIGNAL INTERCONNECT
- 3 EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

WIRELESS INTERCONNECT SCHEMATIC LEGEND

EXISTING	PROPOSED	
		MASTER CONTROLLER
		INTERSECTION CONTROLLER
		TEMPORARY CONTROLLER
		SIGNAL HEAD
		SIGNAL POST
		MAST ARM ASSEMBLY AND POLE, STEEL
		TEMPORARY WOOD POLE
		YAGI ANTENNA (SHOWING DIRECTION TO BE INSTALLED)
		FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12
		ELECTRIC CABLE, 1/C NO. 14
		TELEPHONE CONNECTION



PROPOSED TEMPORARY TRAFFIC SIGNAL (WIRELESS) INTERCONNECT SCHEMATIC

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

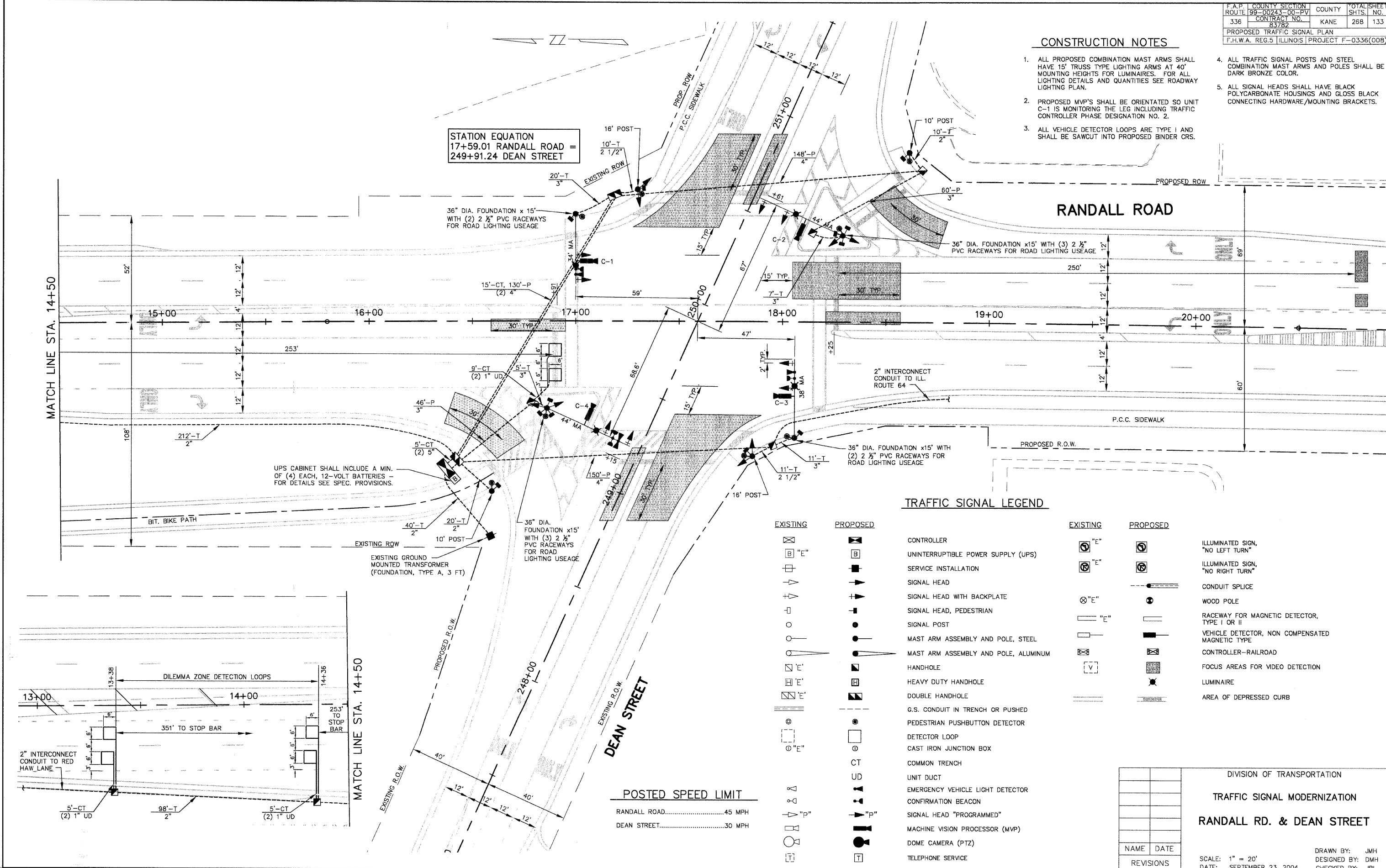
DIVISION OF TRANSPORTATION	
TEMPORARY TRAFFIC SIGNALS INTERCONNECT SCHEMATIC	
RANDALL ROAD (FROM RED HAW LANE TO IL. ROUTE 38)	
NAME	DATE
REVISIONS	
SCALE: NONE	DATE: SEPTEMBER 23, 2004
DRAWN BY: JMH	DESIGNED BY: DMH
CHECKED BY: JRL	

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEETS
99-00243-00-PV	83782	KANE	268 133
PROPOSED TRAFFIC SIGNAL PLAN			
F.H.W.A. REG. 5 ILLINOIS PROJECT F-0336(OOB)			

CONSTRUCTION NOTES

- ALL PROPOSED COMBINATION MAST ARMS SHALL HAVE 15' TRUSS TYPE LIGHTING ARMS AT 40' MOUNTING HEIGHTS FOR LUMINAIRES. FOR ALL LIGHTING DETAILS AND QUANTITIES SEE ROADWAY LIGHTING PLAN.
- PROPOSED MVP'S SHALL BE ORIENTATED SO UNIT C-1 IS MONITORING THE LEG INCLUDING TRAFFIC CONTROLLER PHASE DESIGNATION NO. 2.
- ALL VEHICLE DETECTOR LOOPS ARE TYPE I AND SHALL BE SAWCUT INTO PROPOSED BINDER CRS.
- ALL TRAFFIC SIGNAL POSTS AND STEEL COMBINATION MAST ARMS AND POLES SHALL BE DARK BRONZE COLOR.
- ALL SIGNAL HEADS SHALL HAVE BLACK POLYCARBONATE HOUSINGS AND GLOSS BLACK CONNECTING HARDWARE/MOUNTING BRACKETS.

STATION EQUATION
 17+59.01 RANDALL ROAD =
 249+91.24 DEAN STREET



TRAFFIC SIGNAL LEGEND

EXISTING	PROPOSED	EXISTING	PROPOSED	DESCRIPTION
[Symbol]	[Symbol]	[Symbol]	[Symbol]	CONTROLLER
[Symbol]	[Symbol]	[Symbol]	[Symbol]	UNINTERRUPTIBLE POWER SUPPLY (UPS)
[Symbol]	[Symbol]	[Symbol]	[Symbol]	SERVICE INSTALLATION
[Symbol]	[Symbol]	[Symbol]	[Symbol]	SIGNAL HEAD
[Symbol]	[Symbol]	[Symbol]	[Symbol]	SIGNAL HEAD WITH BACKPLATE
[Symbol]	[Symbol]	[Symbol]	[Symbol]	SIGNAL HEAD, PEDESTRIAN
[Symbol]	[Symbol]	[Symbol]	[Symbol]	SIGNAL POST
[Symbol]	[Symbol]	[Symbol]	[Symbol]	MAST ARM ASSEMBLY AND POLE, STEEL
[Symbol]	[Symbol]	[Symbol]	[Symbol]	MAST ARM ASSEMBLY AND POLE, ALUMINUM
[Symbol]	[Symbol]	[Symbol]	[Symbol]	HANDHOLE
[Symbol]	[Symbol]	[Symbol]	[Symbol]	HEAVY DUTY HANDHOLE
[Symbol]	[Symbol]	[Symbol]	[Symbol]	DOUBLE HANDHOLE
[Symbol]	[Symbol]	[Symbol]	[Symbol]	G.S. CONDUIT IN TRENCH OR PUSHED
[Symbol]	[Symbol]	[Symbol]	[Symbol]	PEDESTRIAN PUSHBUTTON DETECTOR
[Symbol]	[Symbol]	[Symbol]	[Symbol]	DETECTOR LOOP
[Symbol]	[Symbol]	[Symbol]	[Symbol]	CAST IRON JUNCTION BOX
[Symbol]	[Symbol]	[Symbol]	[Symbol]	COMMON TRENCH
[Symbol]	[Symbol]	[Symbol]	[Symbol]	UNIT DUCT
[Symbol]	[Symbol]	[Symbol]	[Symbol]	EMERGENCY VEHICLE LIGHT DETECTOR
[Symbol]	[Symbol]	[Symbol]	[Symbol]	CONFIRMATION BEACON
[Symbol]	[Symbol]	[Symbol]	[Symbol]	SIGNAL HEAD "PROGRAMMED"
[Symbol]	[Symbol]	[Symbol]	[Symbol]	MACHINE VISION PROCESSOR (MVP)
[Symbol]	[Symbol]	[Symbol]	[Symbol]	DOME CAMERA (PTZ)
[Symbol]	[Symbol]	[Symbol]	[Symbol]	TELEPHONE SERVICE
[Symbol]	[Symbol]	[Symbol]	[Symbol]	ILLUMINATED SIGN, "NO LEFT TURN"
[Symbol]	[Symbol]	[Symbol]	[Symbol]	ILLUMINATED SIGN, "NO RIGHT TURN"
[Symbol]	[Symbol]	[Symbol]	[Symbol]	CONDUIT SPLICE
[Symbol]	[Symbol]	[Symbol]	[Symbol]	WOOD POLE
[Symbol]	[Symbol]	[Symbol]	[Symbol]	RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR II
[Symbol]	[Symbol]	[Symbol]	[Symbol]	VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE
[Symbol]	[Symbol]	[Symbol]	[Symbol]	CONTROLLER-RAILROAD
[Symbol]	[Symbol]	[Symbol]	[Symbol]	FOCUS AREAS FOR VIDEO DETECTION
[Symbol]	[Symbol]	[Symbol]	[Symbol]	LUMINAIRE
[Symbol]	[Symbol]	[Symbol]	[Symbol]	AREA OF DEPRESSED CURB

POSTED SPEED LIMIT
 RANDALL ROAD.....45 MPH
 DEAN STREET.....30 MPH

DIVISION OF TRANSPORTATION
TRAFFIC SIGNAL MODERNIZATION
RANDALL RD. & DEAN STREET

NAME	DATE	SCALE: 1" = 20'	DRAWN BY: JMH
REVISIONS		DATE: SEPTEMBER 23, 2004	DESIGNED BY: DMH
			CHECKED BY: JRL

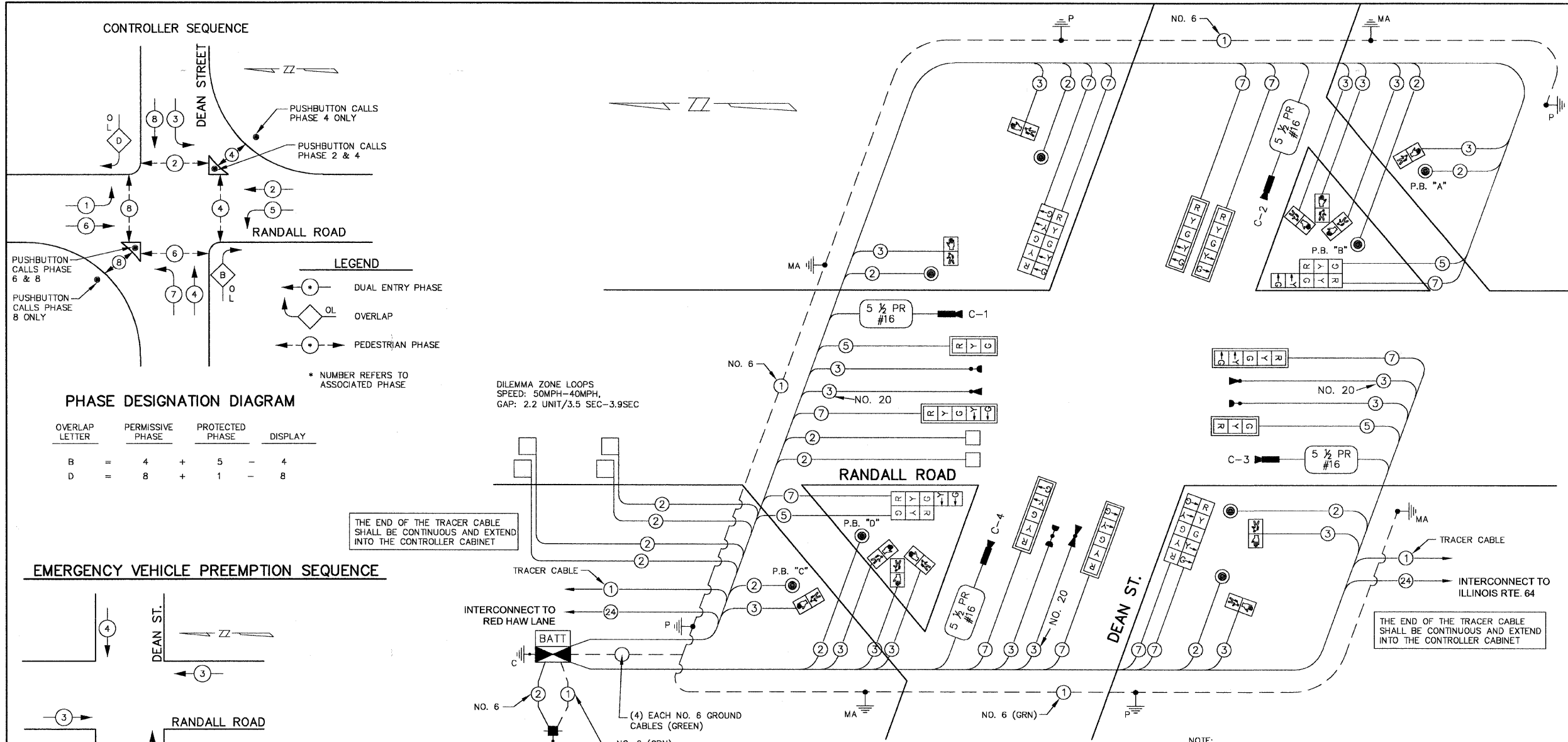
CABLE PLAN LEGEND

- | EXISTING | PROPOSED | |
|----------|----------|---|
| | | 8" (200mm) TRAFFIC SIGNAL SECTION |
| | | 12" (300mm) TRAFFIC SIGNAL SECTION |
| | | 12" (300mm) PEDESTRIAN SIGNAL SECTION |
| | | 12" (300mm) PEDESTRIAN SIGNAL SECTION |
| | | CONTROLLER CABINET |
| | | UNINTERRUPTIBLE POWER SUPPLY |
| | | SERVICE INSTALLATION |
| | | TELEPHONE CONNECTION |
| | | MAGNETIC DETECTOR |
| | | EMERGENCY VEHICLE LIGHT DETECTOR |
| | | CONFIRMATION BEACON |
| | | PUSHBUTTON DETECTOR |
| | | VEHICLE DETECTOR, INDUCTION LOOP |
| | | 1 DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
| | | 24 FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F & SM12F |
| | | 1P SINGLE PAIR IN COAXIAL CABLE |
| | | MACHINE VISION PROCESSOR (MVP) |
| | | DOMA CAMERA (PTZ) |
| | | SIGNAL FACE WITH BACK PLATE, "P" INDICATES PROGRAMMED HEAD. |
| | | RAILROAD CONTROL CABINET |
| | | ILLUMINATED SIGN, "NO LEFT TURN" |
| | | ILLUMINATED SIGN, "NO RIGHT TURN" |
| | | H/C GROUND ROD AT HANDHOLE, (H) DOUBLE HANDHOLE (H), OR CONTROLLER (C) |
| | | P GROUND ROD AT POST (P) OR MAST ARM POLE (MA) |
| | | S GROUND ROD AT ELECTRIC SERVICE INSTALLATION |

PROPOSED TRAFFIC SIGNAL EQUIPMENT SHALL BE ONLY EAGLE BRAND OF CONTROLLERS & AUTO-SCOPE BRAND OF VIDEO VEHICLE DETECTION EQUIPMENT SO AS TO MATCH EXISTING SYSTEMS OR LOCAL STANDARDS.

NAME	DATE	REVISIONS

DIVISION OF TRANSPORTATION
CABLE PLAN
 PHASE DESIGNATION DIAGRAM
 SCHEDULE OF QUANTITIES
RANDALL RD. & DEAN ST.
 SCALE: NONE
 DATE: SEPTEMBER 23, 2004
 DRAWN BY: JMH
 DESIGNED BY: DMH
 CHECKED BY: JRL



NOTE:
 PUSHBUTTON A SHALL PLACE CALLS IN PHASE 4 ONLY.
 PUSHBUTTON B SHALL PLACE CALLS IN PHASE 2 AND 4.
 PUSHBUTTON C SHALL PLACE CALLS IN PHASE 8 ONLY.
 PUSHBUTTON D SHALL PLACE CALLS IN PHASE 6 AND 8.

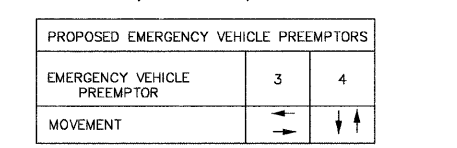
CABLE PLAN
SCHEDULE OF QUANTITIES

QTY	UNIT	ITEM
27	SQ FT	SIGN PANEL - TYPE 1
410	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
70	FOOT	CONDUIT IN TRENCH, 2-1/2" DIA., GALVANIZED STEEL
20	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
20	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
16	FOOT	CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL
105	FOOT	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL
560	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
6	EACH	HANDHOLE
2	EACH	DOUBLE HANDHOLE
535	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET

QTY	UNIT	ITEM
1	EACH	TRANSCEIVER - FIBER OPTIC
1	EACH	UNINTERRUPTIBLE POWER SUPPLY
1	EACH	VIDEO DETECTION SYSTEM (COMPLETE INTERSECTION)
1	EACH	VIDEO TRANSMISSION SYSTEM
1764	FOOT	ELECTRICAL CABLE IN CONDUIT, SIGNAL NO. 14 2C
3465	FOOT	ELECTRICAL CABLE IN CONDUIT, SIGNAL NO. 14 3C
1016	FOOT	ELECTRICAL CABLE IN CONDUIT, SIGNAL NO. 14 5C
3084	FOOT	ELECTRICAL CABLE IN CONDUIT, SIGNAL NO. 14 7C
1330	FOOT	ELECTRICAL CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
61	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
832	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
654	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED
1120	FOOT	ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 16, 5.5 PAIR
2	EACH	TRAFFIC SIGNAL POST, PAINTED STEEL 10 FT.
2	EACH	TRAFFIC SIGNAL POST, PAINTED STEEL 16 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT. WITH 15 FT. LIGHTING ARM AT 40 FT. MTD. HEIGHT
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT. WITH 15 FT. LIGHTING ARM AT 40 FT. MTD. HEIGHT
2	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT. WITH 15 FT. LIGHTING ARM AT 40 FT. MTD. HEIGHT
19	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE D

QTY	UNIT	ITEM
60	FOOT	CONCRETE FOUNDATION, TYPE E 36" DIAMETER
8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED ALUMINUM
6	EACH	INDUCTIVE LOOP DETECTOR
162	FOOT	DETECTOR LOOP, TYPE 1
3	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
10	EACH	REMOVE EXISTING HANDHOLE
9	EACH	REMOVE EXISTING CONCRETE FOUNDATION
2	EACH	SIGNAL HEAD, POLY, L.E.D., 1-FACE, 3-SECTION, MAST ARM MTD
6	EACH	SIGNAL HEAD, POLY, L.E.D., 1-FACE, 5-SECTION, MAST ARM MTD
2	EACH	SIGNAL HEAD, POLY, L.E.D., 2-FACE, 5-SECTION, BRACKET MTD
2	EACH	SIGNAL HEAD, POLY, L.E.D., 2-FACE, 1-3 SEC., 1-5 SEC., BRACKET MTD
6	EACH	PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, L.E.D., 3-FACE, BRACKET MOUNTED
1	EACH	SERVICE INSTALLATION, GROUND MOUNTED

FOUNDATION	DEPTH FT. (m)	CABLE SLACK	FT. (m)	VERTICAL CABLE	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - D-CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20+L-2+
E - M. ARM POLE		SIGNAL POST	2 (1.0)		(6m+L-0.6m)
<30" MA 30" (750mm) DIA.	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
<40" MA 30" (750mm) DIA.	13.5 (4.1)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
<40" MA 36" (900mm) DIA.	11 (3.4)	ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
<50" MA 36" (900mm) DIA.	13 (4.0)	GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
>50" MA 36" (900mm) DIA.	15 (4.6)			POST MOUNTED	6(1.8)



PROPOSED EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑

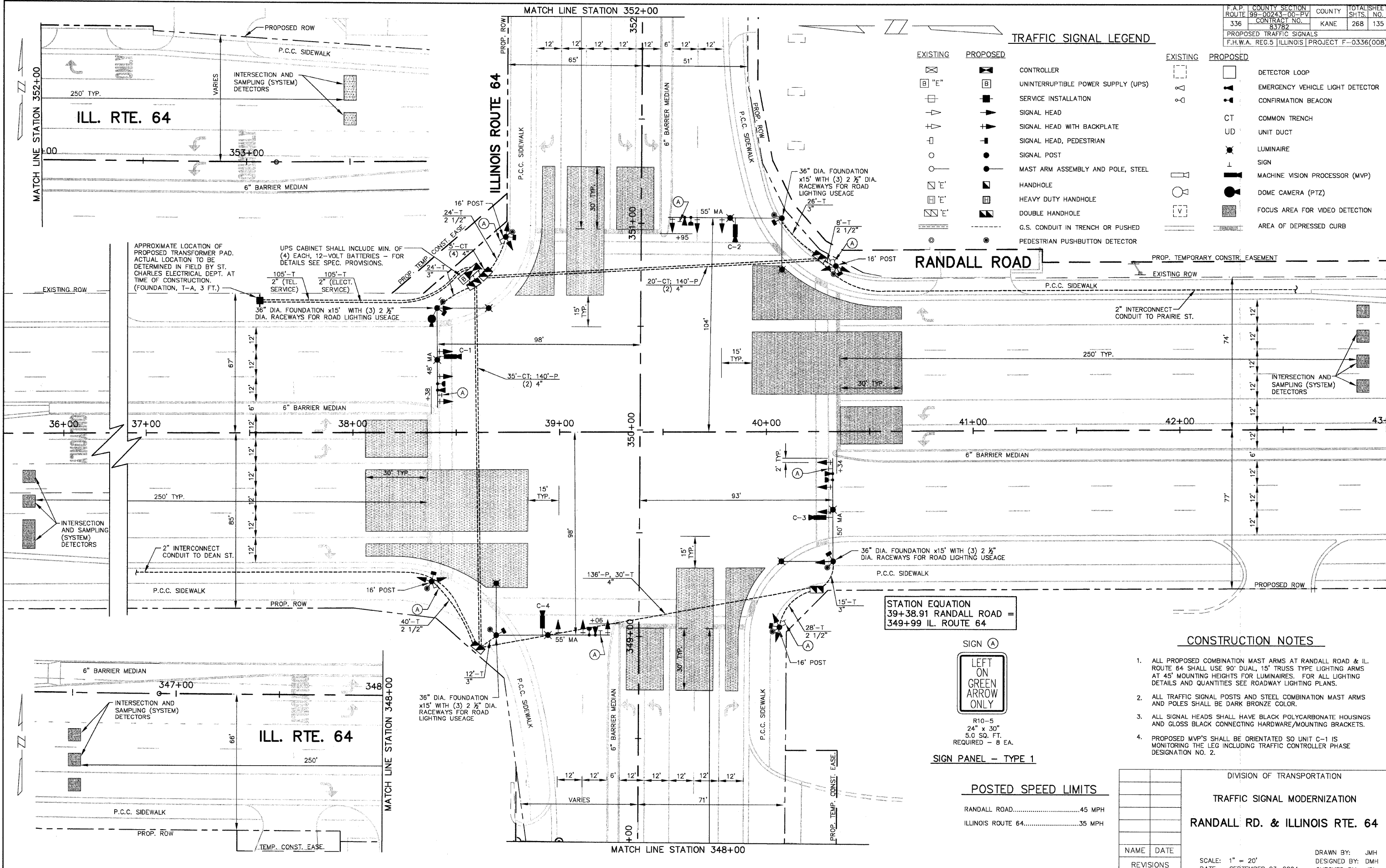
I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	x WATTAGE	% OPERATION		
SIGNAL (RED)	16	125	17	0.50	136.0
(YELLOW)	16	125	25	0.25	100.0
(GREEN)	16	125	15	0.25	90.0
ARROW	12	125	12	0.10	14.4
PED. SIGNAL	12	30	25	1.00	300.0
CONTROLLER	1	100	100	1.00	100.0
ILLUM. SIGN				0.05	0.0
VIDEO DETECT	4	23	1.00		92.0
FLASHER				0.50	
ENERGY COSTS TO:					TOTAL = 802.4

CITY OF ST. CHARLES
 2 EAST MAIN STREET
 ST. CHARLES, IL 60174

CONTACT: Tom Lesiewicz (630) 377-4486
 COMPANY: St. Charles Electric Department

* 100% TO BE PAID BY THE CITY ST. CHARLES

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEETS	SHTS. NO.
336	99-00243-00-PV	KANE	268	135
PROPOSED TRAFFIC SIGNALS				
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)				



TRAFFIC SIGNAL LEGEND

EXISTING	PROPOSED	CONTROLLER	EXISTING	PROPOSED
[Symbol]	[Symbol]	CONTROLLER	[Symbol]	DETECTOR LOOP
[Symbol]	[Symbol]	UNINTERRUPTIBLE POWER SUPPLY (UPS)	[Symbol]	EMERGENCY VEHICLE LIGHT DETECTOR
[Symbol]	[Symbol]	SERVICE INSTALLATION	[Symbol]	CONFIRMATION BEACON
[Symbol]	[Symbol]	SIGNAL HEAD	[Symbol]	COMMON TRENCH
[Symbol]	[Symbol]	SIGNAL HEAD WITH BACKPLATE	[Symbol]	UNIT DUCT
[Symbol]	[Symbol]	SIGNAL HEAD, PEDESTRIAN	[Symbol]	LUMINAIRE
[Symbol]	[Symbol]	SIGNAL POST	[Symbol]	SIGN
[Symbol]	[Symbol]	MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	MACHINE VISION PROCESSOR (MVP)
[Symbol]	[Symbol]	HANDHOLE	[Symbol]	DOME CAMERA (PTZ)
[Symbol]	[Symbol]	HEAVY DUTY HANDHOLE	[Symbol]	FOCUS AREA FOR VIDEO DETECTION
[Symbol]	[Symbol]	DOUBLE HANDHOLE	[Symbol]	AREA OF DEPRESSED CURB
[Symbol]	[Symbol]	G.S. CONDUIT IN TRENCH OR PUSHED		
[Symbol]	[Symbol]	PEDESTRIAN PUSHBUTTON DETECTOR		

APPROXIMATE LOCATION OF PROPOSED TRANSFORMER PAD. ACTUAL LOCATION TO BE DETERMINED IN FIELD BY ST. CHARLES ELECTRICAL DEPT. AT TIME OF CONSTRUCTION. (FOUNDATION, T-A, 3 FT.)

UPS CABINET SHALL INCLUDE MIN. OF (4) EACH, 12-VOLT BATTERIES - FOR DETAILS SEE SPEC. PROVISIONS.

STATION EQUATION
 39+38.91 RANDALL ROAD =
 349+99 IL. ROUTE 64



SIGN PANEL - TYPE 1

POSTED SPEED LIMITS

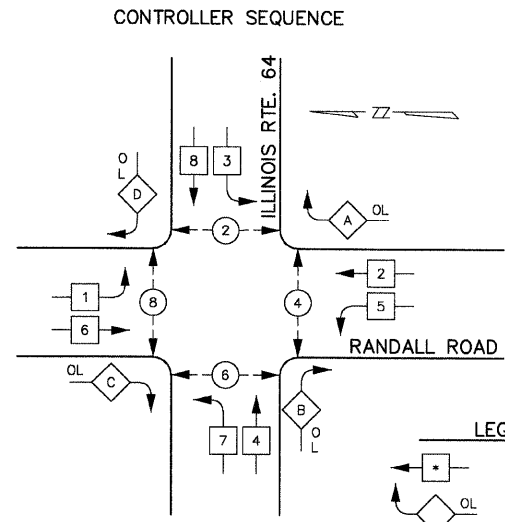
RANDALL ROAD.....	45 MPH
ILLINOIS ROUTE 64.....	35 MPH

CONSTRUCTION NOTES

- ALL PROPOSED COMBINATION MAST ARMS AT RANDALL ROAD & IL. ROUTE 64 SHALL USE 90' DUAL, 15' TRUSS TYPE LIGHTING ARMS AT 45' MOUNTING HEIGHTS FOR LUMINAIRES. FOR ALL LIGHTING DETAILS AND QUANTITIES SEE ROADWAY LIGHTING PLANS.
- ALL TRAFFIC SIGNAL POSTS AND STEEL COMBINATION MAST ARMS AND POLES SHALL BE DARK BRONZE COLOR.
- ALL SIGNAL HEADS SHALL HAVE BLACK POLYCARBONATE HOUSINGS AND GLOSS BLACK CONNECTING HARDWARE/MOUNTING BRACKETS.
- PROPOSED MVP'S SHALL BE ORIENTATED SO UNIT C-1 IS MONITORING THE LEG INCLUDING TRAFFIC CONTROLLER PHASE DESIGNATION NO. 2.

DIVISION OF TRANSPORTATION	
TRAFFIC SIGNAL MODERNIZATION	
RANDALL RD. & ILLINOIS RTE. 64	
NAME	DATE
REVISIONS	
SCALE: 1" = 20'	
DATE: SEPTEMBER 23, 2004	
DRAWN BY: JMH	DESIGNED BY: DMH
CHECKED BY: JRL	

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET NO.
99-00243-00-PV	336	KANE	268
CONTRACT NO.	83782		136
CABLE PLAN			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(00B)			

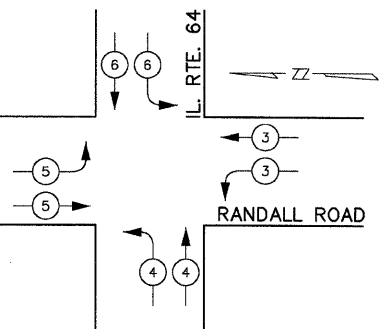


PHASE DESIGNATION DIAGRAM

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

* NUMBER REFERS TO ASSOCIATED PHASE

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS

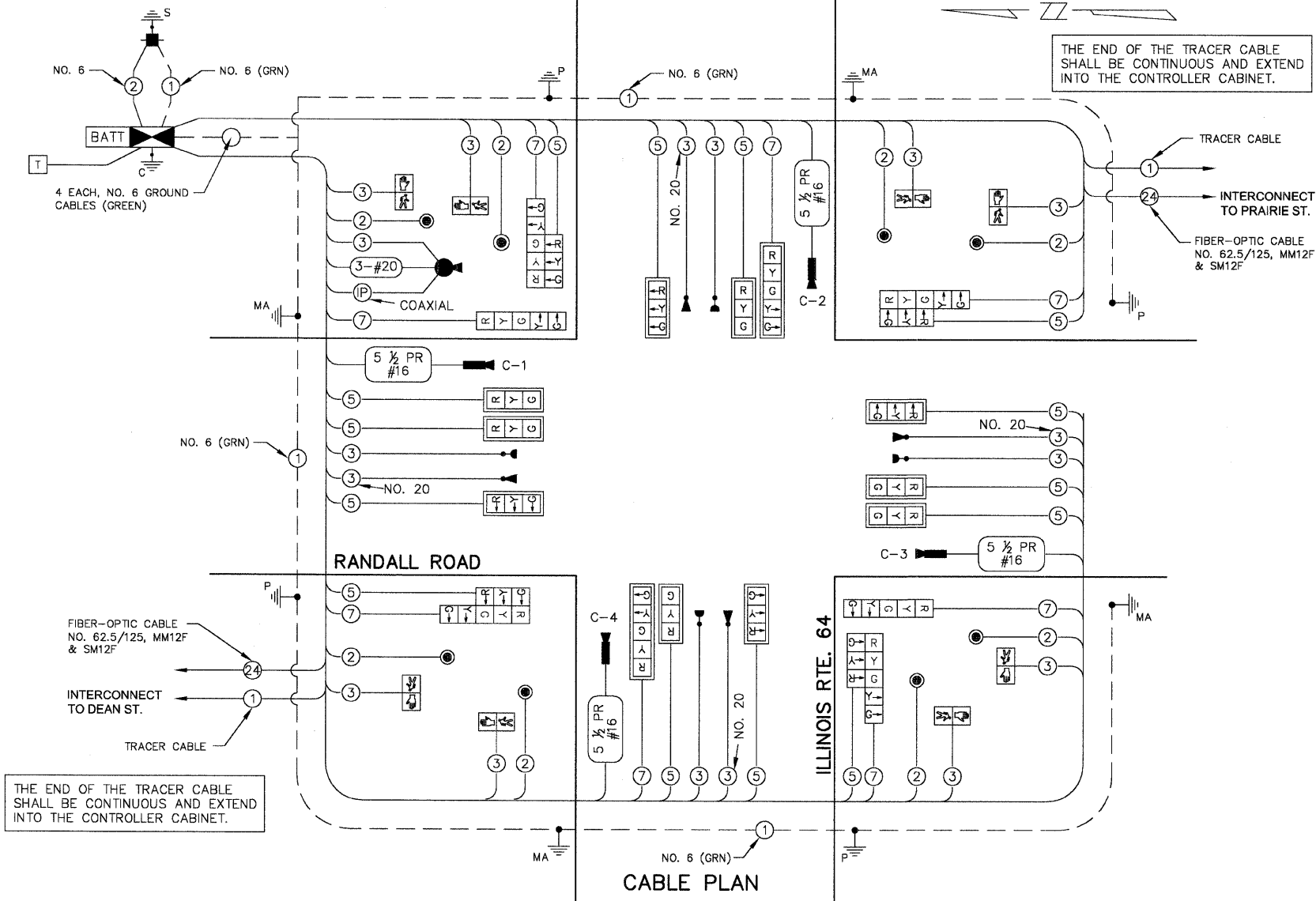
EMERGENCY VEHICLE PREEMPTOR MOVEMENT	3	4	5	6

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	INCAND.	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	22	120	17	0.50	187.0
(YELLOW)	22	120	25	0.25	137.5
(GREEN)	22	120	15	0.25	82.5
ARROW	16	120	12	0.10	19.2
PED. SIGNAL	8	24	25	1.00	200.0
CONTROLLER	1	100	100	1.00	100.0
ILLUM. SIGN				0.05	
VIDEO DETECT	5	25	23	1.00	115.0
FLASHER				0.50	
ENERGY COSTS TO:	TOTAL =				841.2

ENERGY SUPPLY: CITY OF ST. CHARLES, 2 EAST MAIN STREET, ST. CHARLES, IL. 60174
 CONTACT: Tom Lesiewicz (850) 377-4285
 COMPANY: St. Charles Electric Department

FOUNDATION	DEPTH FT. (m)	CABLE SLACK	FT. (m)	VERTICAL CABLE	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - D-CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'-L-2=
E - M. ARM POLE		SIGNAL POST	2 (1.0)	(8m-L-0.6m)	
<30' MA 30" (750mm) DIA.	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
<40' MA 30" (750mm) DIA.	13.5 (4.1)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
<40' MA 36" (900mm) DIA.	11 (3.4)	ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
<50' MA 36" (900mm) DIA.	13 (4.0)	GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
≥50' MA 36" (900mm) DIA.	15 (4.6)			POST MOUNTED	6(1.8)



CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
G	G	8" (200mm) TRAFFIC SIGNAL SECTION
R	R	12" (300mm) TRAFFIC SIGNAL SECTION
W	W	12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
BATT "E"	BATT	UNINTERRUPTIBLE POWER SUPPLY
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
2	2	DENOTES NUMBER OF CONDUCTORS ALL CABLE NO. 14 EXCEPT AS INDICATED ALL LOOP DETECTOR CABLE TO BE SHIELDED
1	1	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
24	24	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F & SM12F
IP	IP	SINGLE PAIR IN COAXIAL CABLE
		MACHINE VISION PROCESSOR (MVP)
		DOME CAMERA (PTZ)
		SIGNAL FACE WITH BACK PLATE, "P" INDICATES PROGRAMMED HEAD.
		RAILROAD CONTROL CABINET
"E"	"E"	ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
"E"	"E"	ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
H/C	H/C	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
P	P	GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION

SCHEDULE OF QUANTITIES

QTY	UNIT	ITEM
55	SQ FT	SIGN PANEL - TYPE 1
25	SQ FT	SIGN PANEL - TYPE 2
115	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
200	FOOT	CONDUIT IN TRENCH, 2-1/2" DIA., GALVANIZED STEEL
170	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
700	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
6	EACH	DOUBLE HANDHOLE
485	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE V CABINET
1	EACH	UNINTERRUPTIBLE POWER SUPPLY
1	EACH	VIDEO DETECTION SYSTEM (FULL INTERSECTION)
1	EACH	REMOTE-CONTROLLED VIDEO SYSTEM
1	EACH	VIDEO TRANSMISSION SYSTEM
1	EACH	TRANSCIVER - FIBER OPTIC
1933	FOOT	ELECTRICAL CABLE IN CONDUIT, SIGNAL NO. 14 2C
3215	FOOT	ELECTRICAL CABLE IN CONDUIT, SIGNAL NO. 14 3C
3870	FOOT	ELECTRICAL CABLE IN CONDUIT, SIGNAL NO. 14 5C
2205	FOOT	ELECTRICAL CABLE IN CONDUIT, SIGNAL NO. 14 7C
1140	FOOT	ELECTRICAL CABLE IN CONDUIT, COMMUNICATION NO. 16, 5 5 PAIR
126	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
966	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
1280	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED
85	FOOT	ELECTRIC CABLE IN CONDUIT, COAXIAL

QTY	UNIT	ITEM
4	EACH	TRAFFIC SIGNAL POST, PAINTED STEEL 16 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT. WITH DUAL 15 FT. LIGHTING ARMS AT 45° M.H.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT. WITH DUAL 15 FT. LIGHTING ARMS AT 45° M.H.
2	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 55 FT. WITH DUAL 15 FT. LIGHTING ARMS AT 45° M.H.
19	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE D
60	FOOT	CONCRETE FOUNDATION, TYPE E 36" DIAMETER
12	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED ALUMINUM
4	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
13	EACH	REMOVE EXISTING HANDHOLE
9	EACH	REMOVE EXISTING CONCRETE FOUNDATION
10	EACH	SIGNAL HEAD, POLY. L.E.D., 1-FACE 3-SECTION, MAST ARM MTD
2	EACH	SIGNAL HEAD, POLY. L.E.D., 1-FACE 5-SECTION, BRACKET MTD
2	EACH	SIGNAL HEAD, POLY. L.E.D., 1-FACE 5-SECTION, MAST ARM MTD
4	EACH	SIGNAL HEAD, POLY. L.E.D., 2-FACE, 1-3 SEC., 1-5 SEC., BRACKET MTD
8	EACH	PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED
1	EACH	SERVICE INSTALLATION, GROUND MOUNTED

PROPOSED TRAFFIC SIGNAL EQUIPMENT SHALL BE ONLY EAGLE BRAND OF CONTROLLERS & AUTO-SCOPE BRAND OF VIDEO VEHICLE DETECTION EQUIPMENT SO AS TO MATCH EXISTING SYSTEMS OR LOCAL STANDARDS.

DIVISION OF TRANSPORTATION
CABLE PLAN
 PHASE DESIGNATION DIAGRAM
 SCHEDULE OF QUANTITIES

RANDALL RD. & ILLINOIS RTE. 64

SCALE: NONE
 DATE: SEPTEMBER 23, 2004

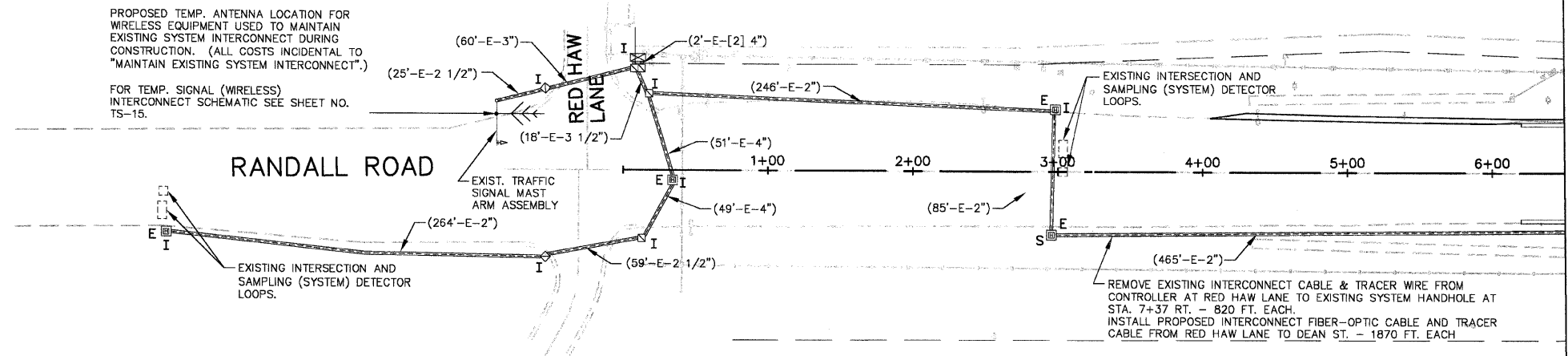
DRAWN BY: JMH
 DESIGNED BY: DMH
 CHECKED BY: JRL

NAME DATE
 REVISIONS

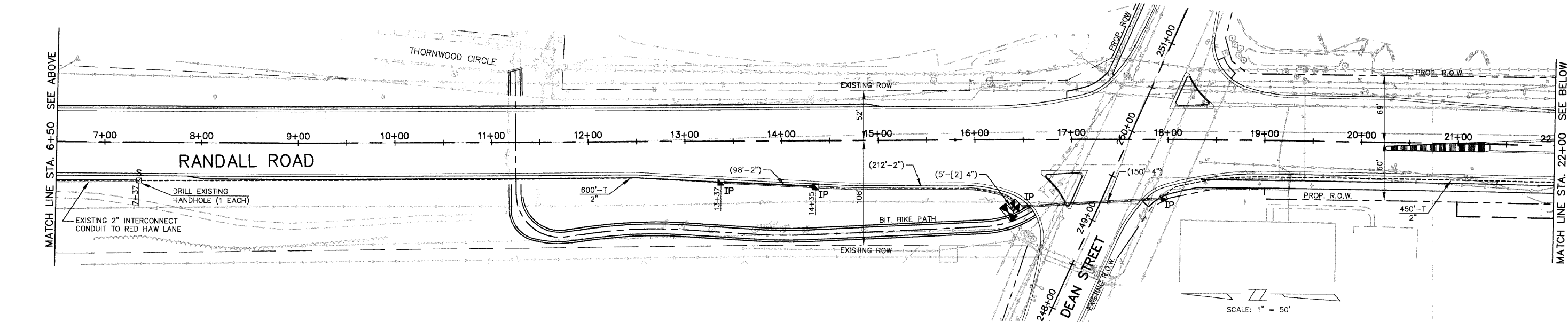
F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	99-00243-00-PV	KANE	268	137
PROPOSED SYSTEM INTERCONNECT PLAN				
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)				

INTERCONNECT PLAN LEGEND

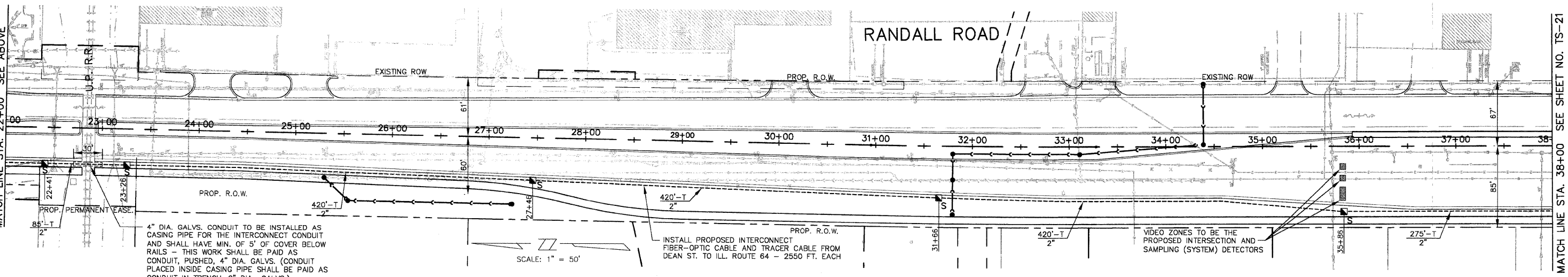
- | EXISTING | PROPOSED | |
|----------|----------|--|
| | | CONTROLLER |
| | | HANDHOLE |
| | | DOUBLE HANDHOLE |
| | | HEAVY DUTY HANDHOLE |
| | | G.S. CONDUIT IN TRENCH (T) OR PUSHED (P) |
| | | DETECTOR LOOP |
| | | UD SYSTEM |
| | | INTERSECTION |
| | | VIDEO DETECTION ZONE |
| | | YAGI ANTENNA |



MATCH LINE STA. 6+50 SEE BELOW



MATCH LINE STA. 22+00 SEE BELOW



MATCH LINE STA. 38+00 SEE SHEET NO. TS-21

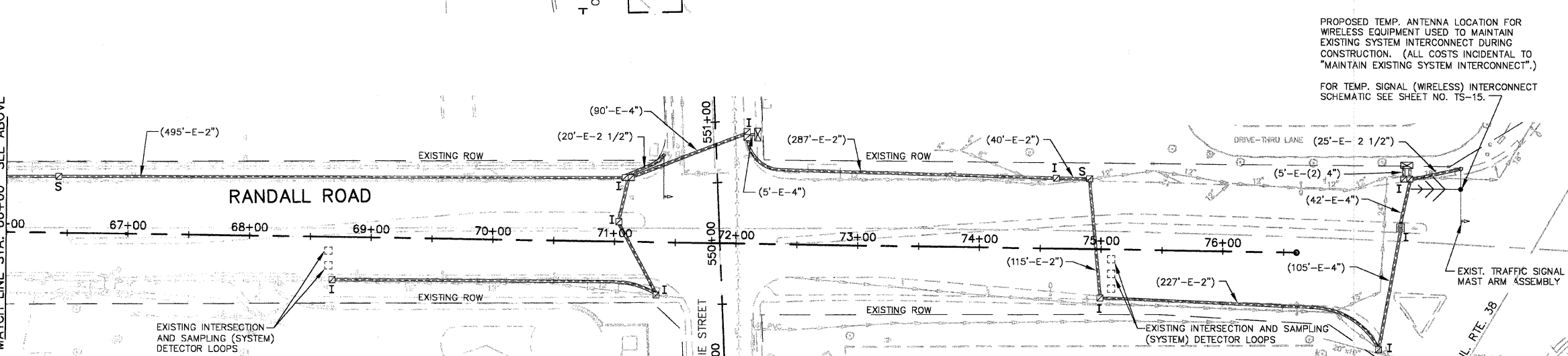
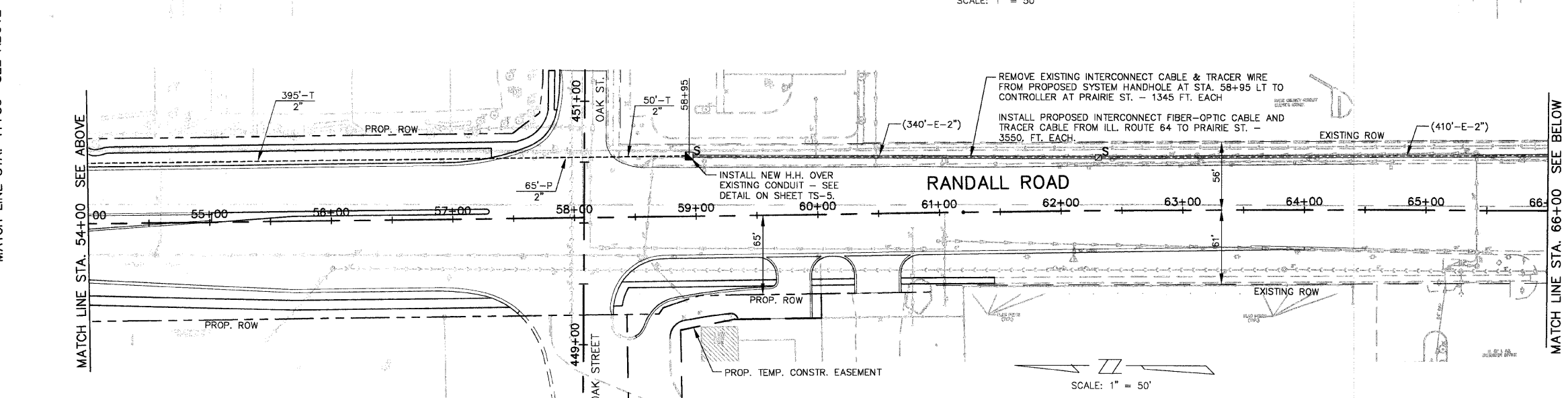
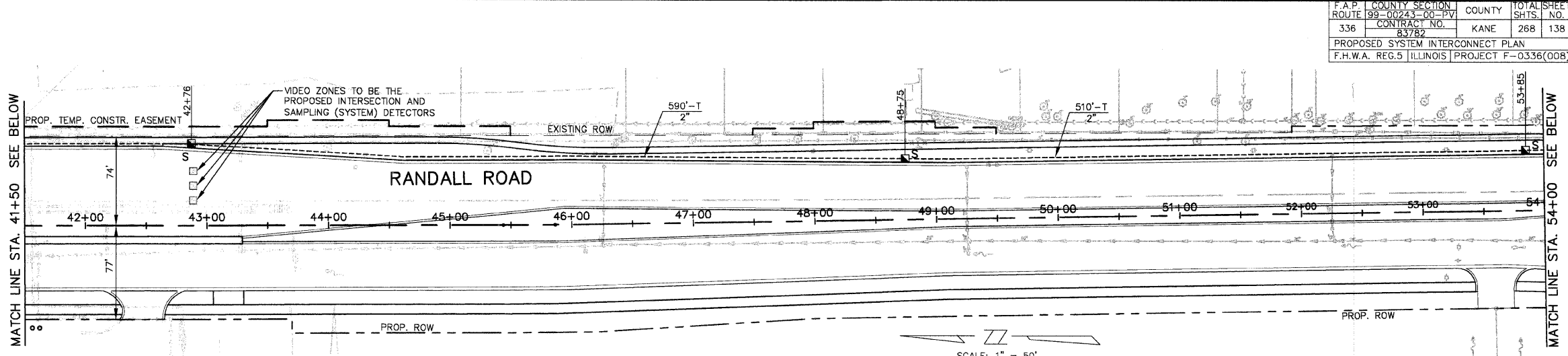
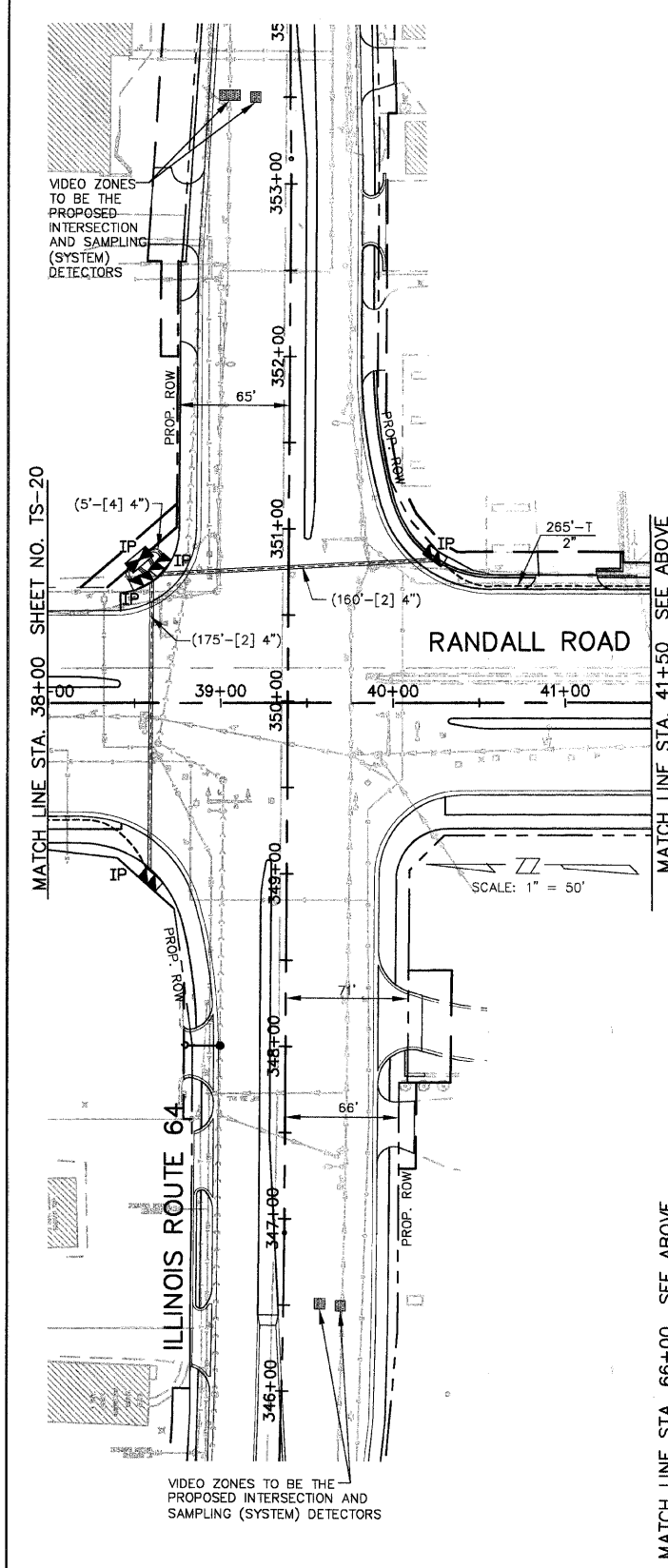
4" DIA. GALVS. CONDUIT TO BE INSTALLED AS CASING PIPE FOR THE INTERCONNECT CONDUIT AND SHALL HAVE MIN. OF 5" OF COVER BELOW RAILS - THIS WORK SHALL BE PAID AS CONDUIT, PUSHED, 4" DIA. GALVS. (CONDUIT PLACED INSIDE CASING PIPE SHALL BE PAID AS CONDUIT IN TRENCH, 2" DIA., GALVS.)

INSTALL PROPOSED INTERCONNECT FIBER-OPTIC CABLE AND TRACER CABLE FROM DEAN ST. TO ILL. ROUTE 64 - 2550 FT. EACH

VIDEO ZONES TO BE THE PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

DIVISION OF TRANSPORTATION	
PROPOSED SYSTEM INTERCONNECT PLAN (STA. 7+00 TO STA. 38+00)	
SHEET 1 OF 3	
RANDALL ROAD	
SCALE: 1" = 50'	DRAWN BY: JMH
DATE: SEPTEMBER 23, 2004	DESIGNED BY: DMH
	CHECKED BY: JRL

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEETS
99-00243-00-PV	336	KANE	268
CONTRACT NO.	83782		138
PROPOSED SYSTEM INTERCONNECT PLAN			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



NOTE:
FOR INTERCONNECT PLAN LEGEND
SEE SHEET NO. TS-20.

NAME	DATE

DIVISION OF TRANSPORTATION
PROPOSED SYSTEM INTERCONNECT PLAN
(STA. 38+00 TO STA. 75+00)
SHEET 2 OF 3
RANDALL ROAD
SCALE: 1" = 50'
DATE: SEPTEMBER 23, 2004
DRAWN BY: JMH
DESIGNED BY: DMH
CHECKED BY: JRL

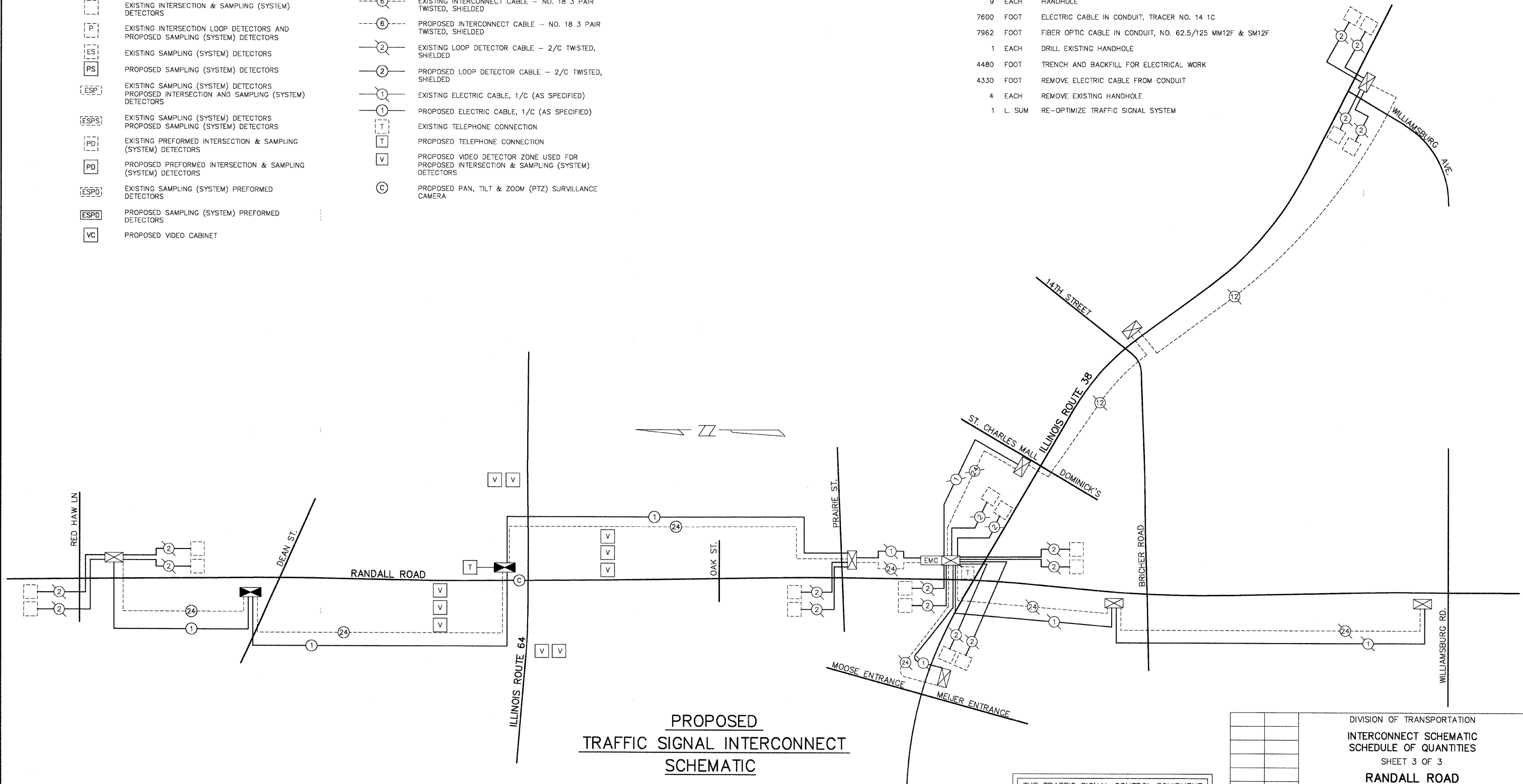
F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
99-00243-00-PV	336	KANE	268
CONTRACT NO.	83782		139
INTERCONNECT SCHEMATIC			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			

INTERCONNECT SCHEMATIC LEGEND

- | | | | |
|--|--|--|---|
| | PROPOSED INTERSECTION CONTROLLER | | EXISTING FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F |
| | EXISTING INTERSECTION CONTROLLER | | PROPOSED FIBER OPTIC CABLE IN CONUIT, NO. 62.5 / 125, MM12F SM12F |
| | PROPOSED MASTER CONTROLLER | | EXISTING INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE |
| | EXISTING MASTER CONTROLLER | | PROPOSED INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE |
| | MASTER MASTER CONTROLLER | | EXISTING INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED |
| | PROPOSED INTERSECTION & SAMPLING (SYSTEM) DETECTORS | | PROPOSED INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED |
| | EXISTING INTERSECTION & SAMPLING (SYSTEM) DETECTORS | | EXISTING LOOP DETECTOR CABLE - 2/C TWISTED, SHIELDED |
| | EXISTING INTERSECTION LOOP DETECTORS AND PROPOSED SAMPLING (SYSTEM) DETECTORS | | PROPOSED LOOP DETECTOR CABLE - 2/C TWISTED, SHIELDED |
| | EXISTING SAMPLING (SYSTEM) DETECTORS | | EXISTING ELECTRIC CABLE, 1/C (AS SPECIFIED) |
| | PROPOSED SAMPLING (SYSTEM) DETECTORS | | PROPOSED ELECTRIC CABLE, 1/C (AS SPECIFIED) |
| | EXISTING SAMPLING (SYSTEM) DETECTORS PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS | | EXISTING TELEPHONE CONNECTION |
| | EXISTING SAMPLING (SYSTEM) DETECTORS PROPOSED SAMPLING (SYSTEM) DETECTORS | | PROPOSED TELEPHONE CONNECTION |
| | EXISTING PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS | | PROPOSED VIDEO DETECTOR ZONE USED FOR PROPOSED INTERSECTION & SAMPLING (SYSTEM) DETECTORS |
| | PROPOSED PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS | | PROPOSED PAN, TILT & ZOOM (PTZ) SURVILLANCE CAMERA |
| | EXISTING SAMPLING (SYSTEM) PREFORMED DETECTORS | | |
| | PROPOSED SAMPLING (SYSTEM) PREFORMED DETECTORS | | |
| | PROPOSED VIDEO CABINET | | |

TRAFFIC SIGNAL INTERCONNECT SCHEDULE OF QUANTITIES

4480	FOOT	CONDUIT IN TRENCH, 2" DIA., GLVANIZED STEEL
65	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
30	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
9	EACH	HANDHOLE
7600	FOOT	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1C
7962	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125 MM12F & SM12F
1	EACH	DRILL EXISTING HANDHOLE
4480	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
4330	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
4	EACH	REMOVE EXISTING HANDHOLE
1	L. SUM	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM

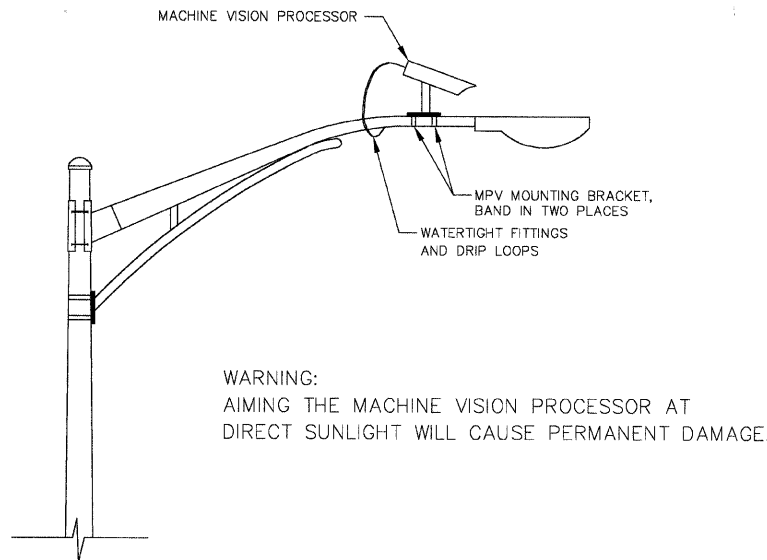


PROPOSED TRAFFIC SIGNAL INTERCONNECT SCHEMATIC

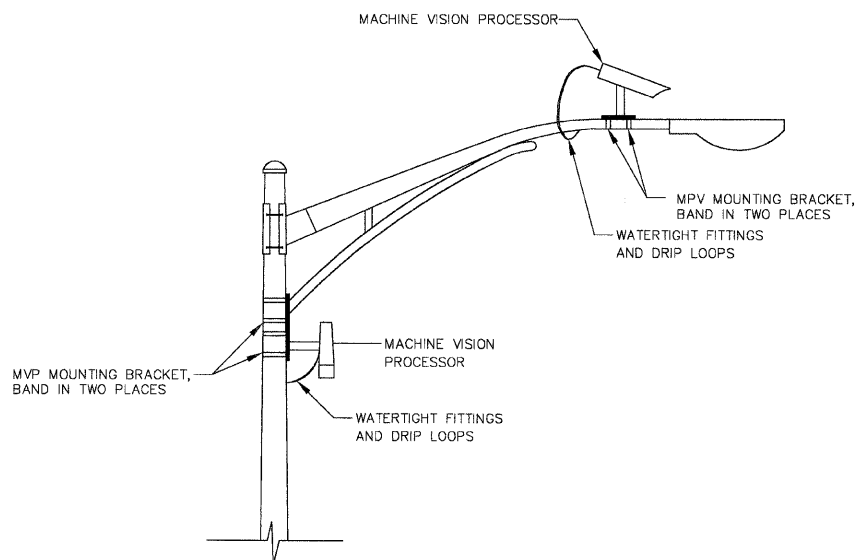
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING SYSTEM.

DIVISION OF TRANSPORTATION	
INTERCONNECT SCHEMATIC SCHEDULE OF QUANTITIES	
SHEET 3 OF 3	
RANDALL ROAD (FROM RED HAW LANE TO WILLIAMSBURG ROAD)	
NAME	DATE
REVISIONS	
SCALE: NONE	DRAWN BY: JMH
DATE: SEPTEMBER 23, 2004	DESIGNED BY: DMH
	CHECKED BY: JRL

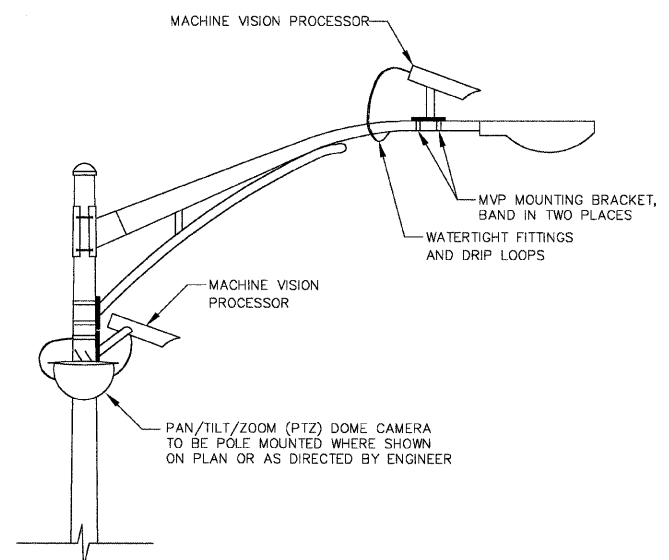
F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268 140
CONTRACT NO. 83782			
VIDEO DETECTION DETAILS			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



TYPICAL
SINGLE MACHINE VISION PROCESSOR
MOUNTING DETAIL
 (NOT TO SCALE)

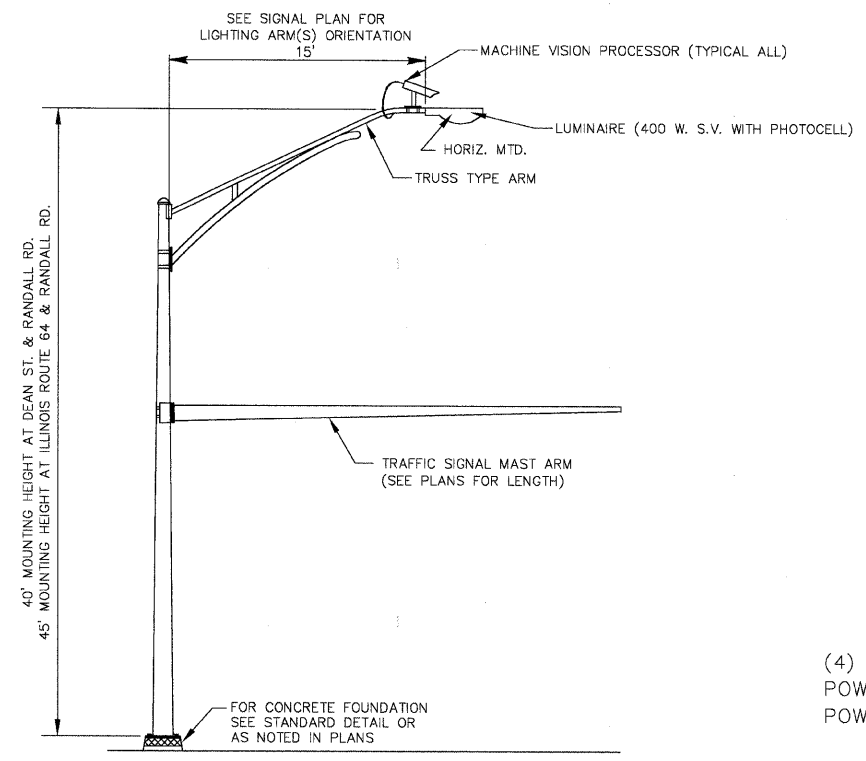


TYPICAL
DUAL MACHINE VISION PROCESSORS
MOUNTING DETAILS
 (NOT TO SCALE)



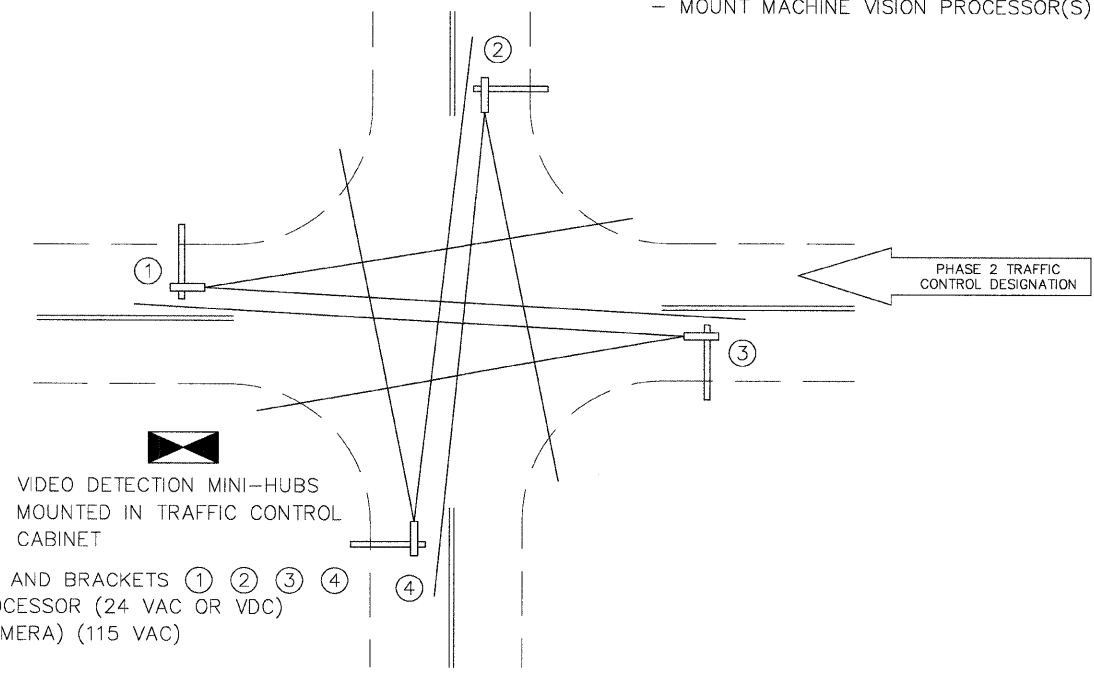
TYPICAL
MULTIPLE MACHINE VISION PROCESSORS
MOUNTING DETAILS
 (NOT TO SCALE)

- NOTES FOR SINGLE, DUAL AND MULTIPLE MVP MOUNTING:
- SECURE MVP MOUNTING BRACKET(S) AS HIGH AS POSSIBLE.
 - AIM MVP BRACKET(S) TOWARD DIRECTION OF TRAFFIC TO BE DETECTED.
 - MOUNT MACHINE VISION PROCESSOR(S) DOWN AT 30 DEGREE ANGLE.



COMBINATION MAST ARM ASSEMBLY
DETAIL
 (NOT TO SCALE)

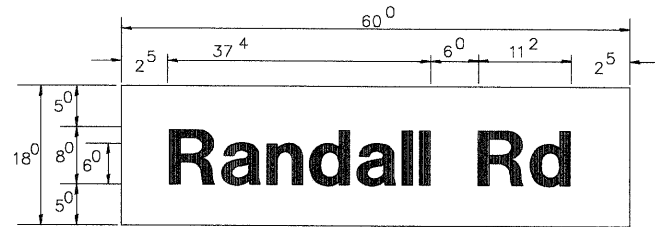
- (4) MACHINE VISION PROCESSOR ASSEMBLIES AND BRACKETS ① ② ③ ④
 POWER CABLE TO EACH MACHINE VISION PROCESSOR (24 VAC OR VDC)
 POWER CABLE TO PAN/TILT/ZOOM (DOME CAMERA) (115 VAC)



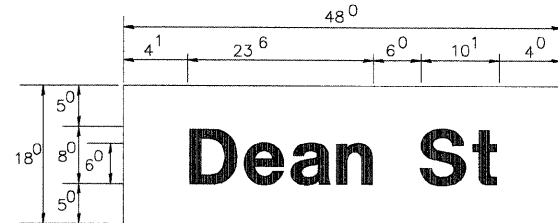
TYPICAL VIDEO VEHICLE
DETECTION SYSTEM
 (NOT TO SCALE)

DIVISION OF TRANSPORTATION	
TYPICAL VIDEO DETECTION LAYOUT AND MOUNTING DETAILS	
RANDALL RD.	
NAME	DATE
REVISIONS	
SCALE: NONE	DRAWN BY: JMH
DATE: SEPTEMBER 23, 2004	DESIGNED BY: DMH
	CHECKED BY: JRL

PANEL SIGN DESIGN TYPE 1



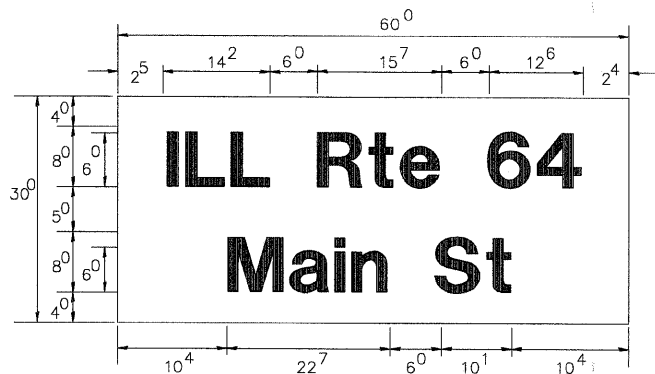
7.5 Sq. Ft. each
4 Required
Design Series D



6.0 Sq. Ft. each
2 Required
Design Series D

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

PANEL SIGN DESIGN TYPE 2



12.5 Sq. Ft. each
2 Required
Design Series D

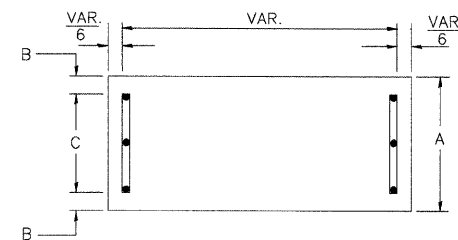
GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 834001, 834006 AND 834011, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 6'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
- THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 6'-0".
- ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4".
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:
 - * A.K.T. CORPORATION SCHAUMBURG, IL
 - * TUCKER COMPANY, INC. WAUWATOSA, WI
 - * AMERICAN FABRICATION CO. CHICAGO HEIGHTS, IL
 - * WESTERN TRAFFIC CONTROL INC. CICERO, IL

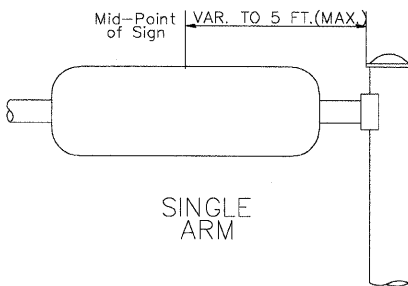
PARTS LISTING:
SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
BRACKETS PART #HPN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

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

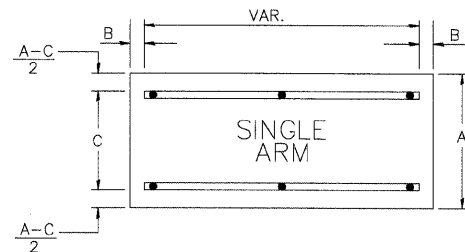
SUPPORTING CHANNELS



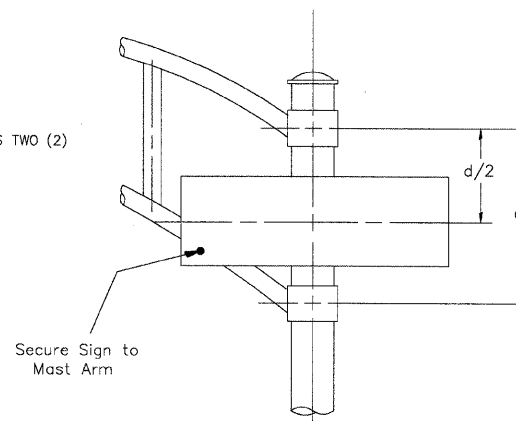
A	B	C
18"	2"	14"



SUPPORTING CHANNELS



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



Secure Sign to Mast Arm

DUAL ARM

SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM
Shall be used. See Note #5.

Upper Case To Lower Case
Spacing Chart 8-6 Inch Series "C & D"

EXAMPLE, 2³ DENOTES 3"

FIRST LETTER	SECOND LETTER															
	a c d e		b h i k l		f w		j		s t		v y		x		z	
	g o q	m n p r u														
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
A W X	12	14	14	15	12	14	06	10	11	14	06	10	11	12	12	14
B	14	15	20	21	14	15	11	12	14	15	12	14	12	14	16	17
C E G	14	15	20	21	12	14	06	10	12	14	12	14	14	15	14	15
D O Q R	14	15	20	21	14	15	06	10	12	14	12	14	14	15	14	15
F	05	06	14	15	06	10	05	06	06	10	06	10	06	10	11	12
H I M N	20	21	22	24	20	21	14	15	16	17	16	17	20	21	20	21
J U	20	21	20	21	16	17	14	15	16	17	16	17	16	17	20	21
K L	11	12	16	17	11	12	05	06	11	12	11	12	11	12	12	14
P	12	14	14	15	12	14	05	06	11	12	11	12	12	14	12	14
S	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14
T	11	12	16	17	06	10	06	10	11	12	11	12	11	12	12	14
V	06	10	14	15	11	12	06	10	12	14	12	14	12	14	12	14
Y	05	06	14	15	06	10	05	06	05	07	05	06	06	10	11	12
Z	16	17	22	24	16	17	12	14	16	17	16	17	16	17	20	21

Lower Case To Lower Case
Spacing Chart 6 Inch Series "C & D"

FIRST LETTER	SECOND LETTER															
	a c d e		b h i k l		f w		j		s t		v y		x		z	
	g o q	m n p r u														
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
a d h g i j	16	17	22	24	16	17	12	14	14	15	14	15	16	17	16	17
l m n q u																
b f k o p s	12	14	16	17	11	12	05	06	11	12	11	12	12	14	12	14
c e	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14
r	06	10	12	14	06	10	03	03	05	06	05	06	06	10	06	10
t z	12	14	16	17	12	14	06	10	11	12	11	12	12	14	12	14
v y	11	12	14	15	11	12	05	06	06	10	06	10	11	12	11	12
w	11	12	14	15	11	12	05	06	11	12	11	12	11	12	12	14
x	12	14	16	17	11	12	05	06	11	12	11	12	11	12	12	14

Number To Number
Spacing Chart 8 Inch Series "C & D"

FIRST NUMBER	SECOND NUMBER																				
	0		1		2		3		4		5		6		7		8		9		
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	
0 9	16	17	16	17	14	15	12	14	14	15	14	15	16	17	12	14	16	17	16	17	
1	20	21	20	21	20	21	16	17	14	15	20	21	20	21	14	15	20	21	20	21	
2 3 4	14	15	14	15	14	15	12	14	12	14	14	15	14	15	11	12	16	17	14	15	
5	14	15	14	15	14	15	11	12	11	12	14	15	14	15	11	12	14	15	14	15	
6	16	17	14	15	14	15	12	14	14	15	14	15	14	15	11	12	14	15	14	15	
7	12	14	12	14	14	15	12	14	05	06	12	14	14	15	11	12	14	15	12	14	
8	16	17	16	17	14	15	12	14	15	12	14	14	15	16	17	12	14	16	17	14	15

UPPER AND LOWER CASE LETTER WIDTHS

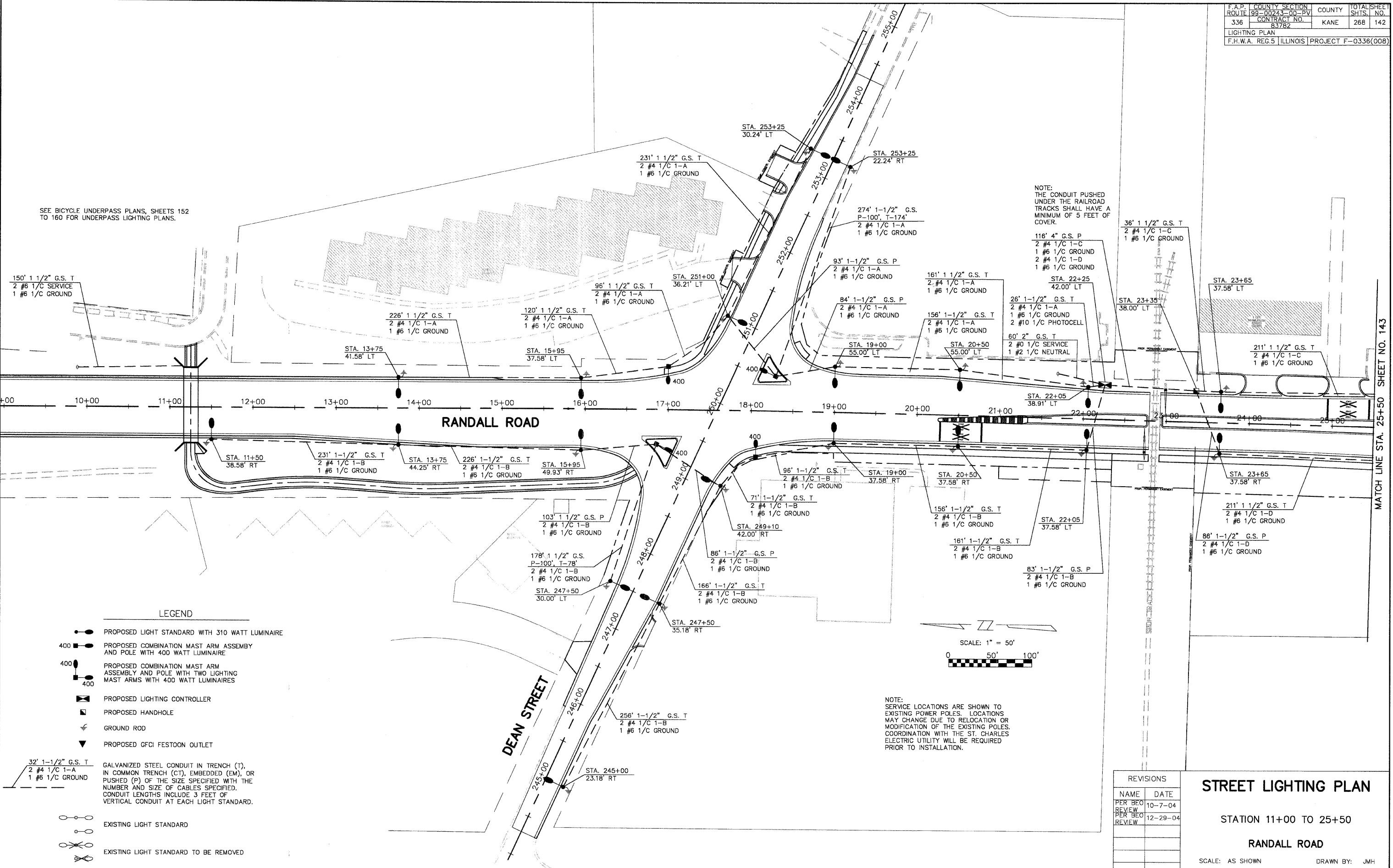
LETTERS	6 INCH UPPER CASE LETTERS				8 INCH UPPER CASE LETTERS				LETTERS	6 INCH LOWER CASE LETTERS	
	SERIES		SERIES		SERIES		SERIES			SERIES	
	C	D	C	D	C	D	C	D		C	D
A	3 ⁶	5 ⁰	5 ⁰	6 ⁵	a	3 ⁵	4 ²				
B	3 ²	4 ⁰	4 ³	5 ³	b	3 ⁵	4 ²				
C	3 ²	4 ⁰	4 ³	5 ³	c	3 ⁵	4 ¹				
D	3 ²	4 ⁰	4 ³	5 ³	d	3 ⁵	4 ²				
E	3 ⁰	3 ⁵	4 ⁰	4 ⁷	e	3 ⁵	4 ²				
F	3 ⁰	3 ⁵	4 ⁰	4 ⁷	f	2 ³	2 ⁶				
G	3 ²	4 ⁰	4 ³	5 ³	g	3 ⁵	4 ²				
H	3 ²	4 ⁰	4 ³	5 ³	h	3 ⁵	4 ²				
I	0 ⁷	0 ⁷	1 ¹	1 ²	i	1 ¹	1 ¹				
J	3 ⁰	3 ⁶	4 ⁰	5 ⁰	j	2 ⁰	2 ²				
K	3 ²	4 ¹	4 ³	5 ⁴	k	3 ⁵	4 ²				
L	3 ⁰	3 ⁵	4 ⁰	4 ⁷	l	1 ¹	1 ¹				
M	3 ⁷	4 ⁵	5 ¹	6 ¹	m	6 ⁰	7 ⁰				
N	3 ²	4 ⁰	4 ³	5 ³	n	3 ⁵	4 ²				
O	3 ⁴	4 ²	4 ⁵	5 ⁵	o	3 ⁶	4 ³				
P	3 ²	4 ⁰	4 ³	5 ³	p	3 ⁵	4 ²				
Q	3 ⁴	4 ²	4 ⁵	5 ⁵	q	3 ⁵	4 ²				
R	3 ²	4 ⁰	4 ³	5 ³	r	2 ⁶	3 ²				
S	3 ²	4 ⁰	4 ³	5 ³	s	3 ⁶	4 ²				
T	3 ⁰	3 ⁵	4 ⁰	4 ⁷	t	2 ⁷	3 ²				
U	3 ²	4 ⁰	4 ³	5 ³	u	3 ⁵	4 ²				
V	3 ⁵	4 ⁴	4 ⁷	6 ⁰	v	4 ²	4 ⁷				
W	4 ⁴	5 ²	6 ⁰	7 ⁰	w	5 ⁵	6 ⁴				
X	3 ⁴	4 ⁰	4 ⁵	5 ³	x	4 ⁴	5 ¹				
Y	3 ⁶	5 ⁰	5 ⁰	6 ⁶	y	4 ⁶	5 ³				
Z	3 ²	4 ⁰	4 ³	5 ³	z	3 ⁶	4 ³				

NUMBER	6 INCH SERIES		8 INCH SERIES	
	C	D	C	D
1	1 ²	1 ⁴	1 ⁵	2 ⁰
2	3 ²	4 ⁰	4 ³	5 ³
3	3 ²	4 ⁰	4 ³	5 ³
4	3 ⁵	4 ³	4 ⁷	5 ⁷
5	3 ²	4 ⁰	4 ³	5 ³
6	3 ²	4 ⁰	4 ³	5 ³
7	3 ²	4 ⁰	4 ³	5 ³
8	3 ²	4 ⁰	4 ³	5 ³
9	3 ²	4 ⁰	4 ³	5 ³
0	3 ⁴	4 ²	4 ⁵	5 ⁵

REVISIONS	
NAME	DATE
D.A.Z./D.A.G.	11/90
	6/98
CADD	10/00

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT ONE
MAST ARM MOUNTED
STREET NAME SIGNS
RANDALL ROAD
SCALE: NONE
DATE: 11-18-02
DRAWN BY: RDB
DESIGNED BY: JHE
CHECKED BY: DAD

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268 142
CONTRACT NO.		SHTS. NO.	
83782		268 142	
LIGHTING PLAN			
F.H.W.A. REG. 5 ILLINOIS PROJECT F-0336(008)			



NOTE:
 THE CONDUIT PUSHED
 UNDER THE RAILROAD
 TRACKS SHALL HAVE A
 MINIMUM OF 5 FEET OF
 COVER.

SEE BICYCLE UNDERPASS PLANS, SHEETS 152
 TO 160 FOR UNDERPASS LIGHTING PLANS.

LEGEND

- PROPOSED LIGHT STANDARD WITH 310 WATT LUMINAIRE
- PROPOSED COMBINATION MAST ARM ASSEMBLY AND POLE WITH 400 WATT LUMINAIRE
- PROPOSED COMBINATION MAST ARM ASSEMBLY AND POLE WITH TWO LIGHTING MAST ARMS WITH 400 WATT LUMINAIRES
- PROPOSED LIGHTING CONTROLLER
- PROPOSED HANDHOLE
- GROUND ROD
- PROPOSED GFCl FESTOON OUTLET

32' 1-1/2" G.S. T
 2 #4 1/C 1-A
 1 #6 1/C GROUND

GALVANIZED STEEL CONDUIT IN TRENCH (T), IN COMMON TRENCH (C.T), EMBEDDED (EM), OR PUSHED (P) OF THE SIZE SPECIFIED WITH THE NUMBER AND SIZE OF CABLES SPECIFIED. CONDUIT LENGTHS INCLUDE 3 FEET OF VERTICAL CONDUIT AT EACH LIGHT STANDARD.

- EXISTING LIGHT STANDARD
- EXISTING LIGHT STANDARD TO BE REMOVED

REVISIONS	
NAME	DATE
PER BEO REVIEW	10-7-04
PER BEO REVIEW	12-29-04

STREET LIGHTING PLAN

STATION 11+00 TO 25+50

RANDALL ROAD

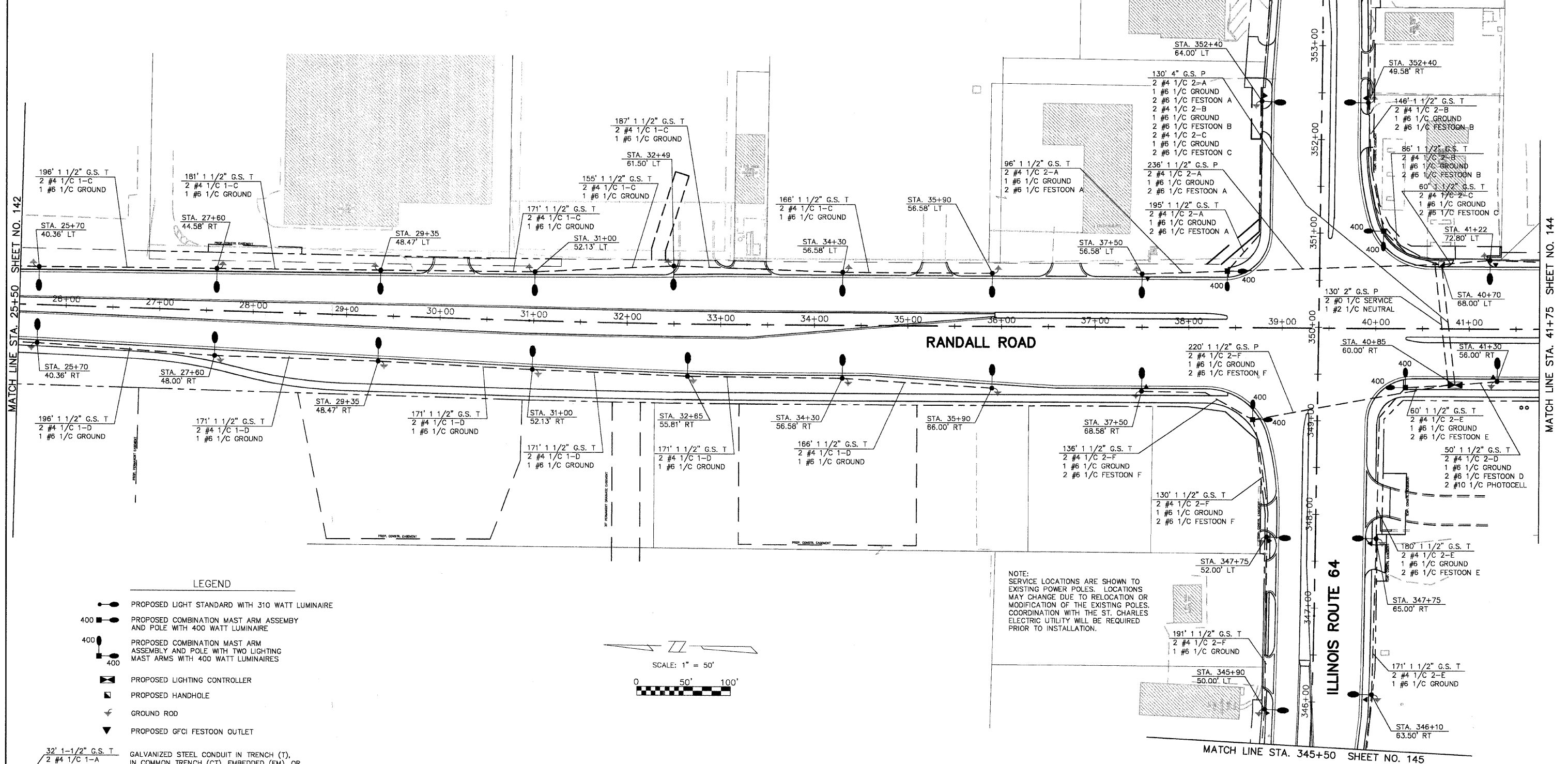
SCALE: AS SHOWN
 DATE: 5-26-04

DRAWN BY: JMH
 CHECKED BY: DAY

MATCH LINE STA. 25+50 SHEET NO. 143

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
CONTRACT NO. 83782			143
LIGHTING PLAN			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			

MATCH LINE STA. 353+50 SHEET NO. 145



MATCH LINE STA. 25+50 SHEET NO. 142

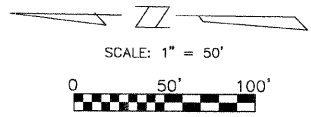
MATCH LINE STA. 41+75 SHEET NO. 144

LEGEND

- PROPOSED LIGHT STANDARD WITH 310 WATT LUMINAIRE
- PROPOSED COMBINATION MAST ARM ASSEMBLY AND POLE WITH 400 WATT LUMINAIRE
- PROPOSED COMBINATION MAST ARM ASSEMBLY AND POLE WITH TWO LIGHTING MAST ARMS WITH 400 WATT LUMINAIRES
- PROPOSED LIGHTING CONTROLLER
- PROPOSED HANDHOLE
- GROUND ROD
- PROPOSED GFCI FESTOON OUTLET

GALVANIZED STEEL CONDUIT IN TRENCH (T), IN COMMON TRENCH (CT), EMBEDDED (EM), OR PUSHED (P) OF THE SIZE SPECIFIED WITH THE NUMBER AND SIZE OF CABLES SPECIFIED. CONDUIT LENGTHS INCLUDE 3 FEET OF VERTICAL CONDUIT AT EACH LIGHT STANDARD.

- EXISTING LIGHT STANDARD
- EXISTING LIGHT STANDARD TO BE REMOVED



NOTE: SERVICE LOCATIONS ARE SHOWN TO EXISTING POWER POLES. LOCATIONS MAY CHANGE DUE TO RELOCATION OR MODIFICATION OF THE EXISTING POLES. COORDINATION WITH THE ST. CHARLES ELECTRIC UTILITY WILL BE REQUIRED PRIOR TO INSTALLATION.

REVISIONS	
NAME	DATE
PER BEC REVIEW	10-7-04
PER BEC REVIEW	12-29-04

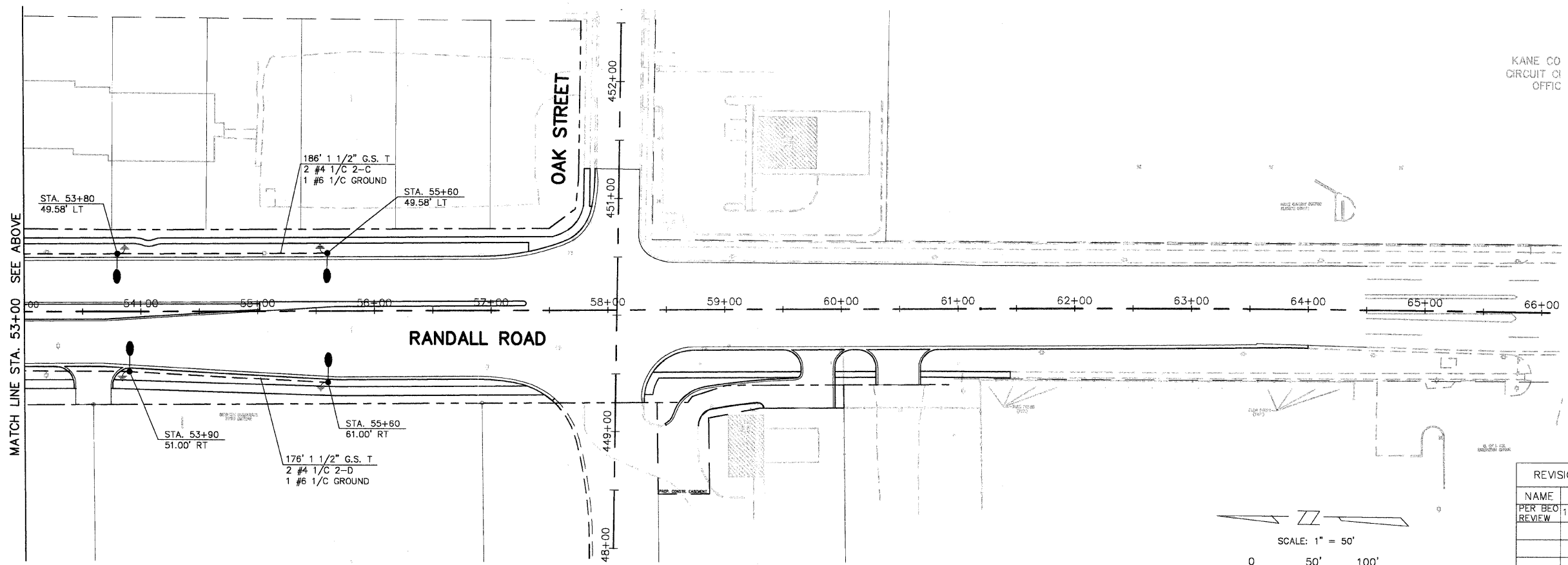
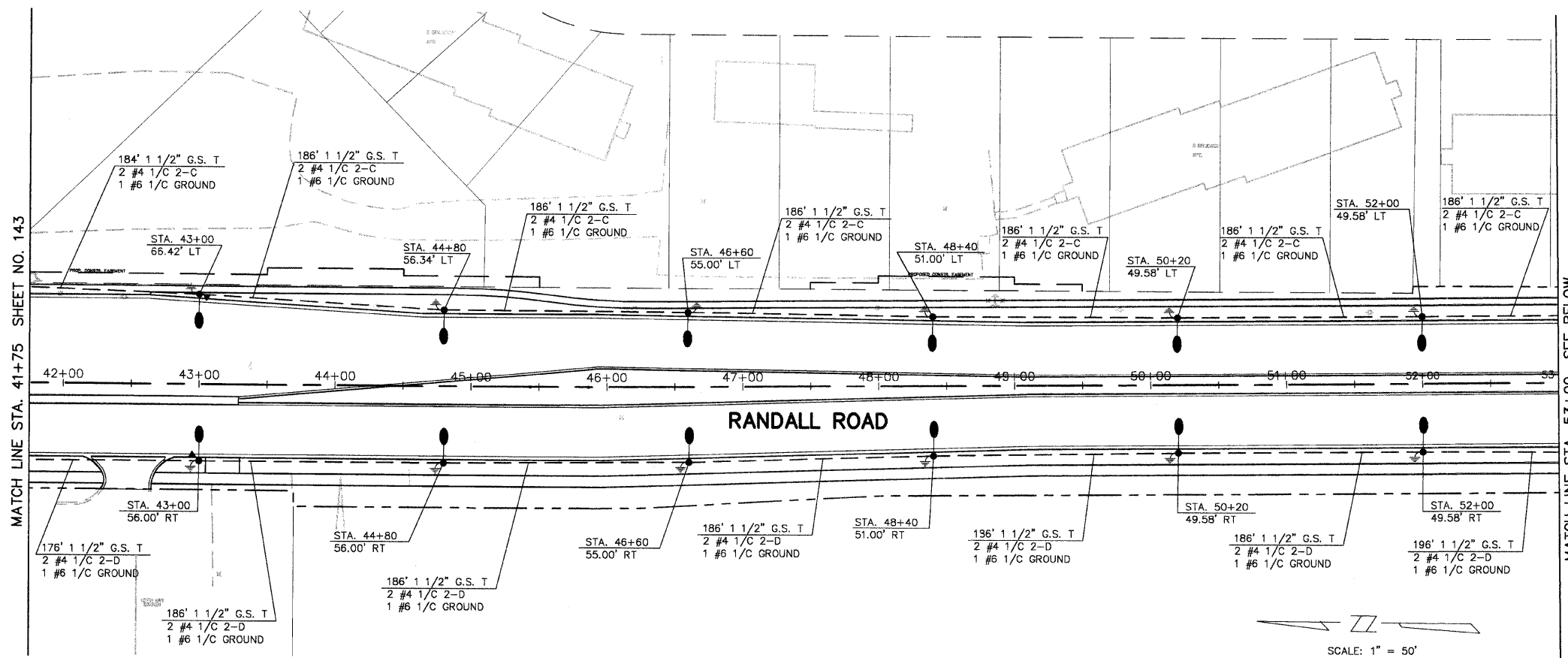
STREET LIGHTING PLAN

STATION 25+50 TO 41+75

RANDALL ROAD

SCALE: AS SHOWN
 DATE: 5-26-04
 DRAWN BY: JMH
 CHECKED BY: DAY

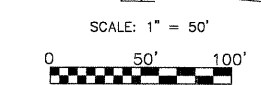
F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
99-00243-00-PV		KANE	268 144
336	CONTRACT NO.		
	83782		
LIGHTING PLAN			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



LEGEND

- PROPOSED LIGHT STANDARD WITH 310 WATT LUMINAIRE
- PROPOSED COMBINATION MAST ARM ASSEMBLY AND POLE WITH 400 WATT LUMINAIRE
- PROPOSED COMBINATION MAST ARM ASSEMBLY AND POLE WITH TWO LIGHTING MAST ARMS WITH 400 WATT LUMINAIRES
- PROPOSED LIGHTING CONTROLLER
- PROPOSED HANDHOLE
- GROUND ROD
- PROPOSED GFCI FESTOON OUTLET
- GALVANIZED STEEL CONDUIT IN TRENCH (T), IN COMMON TRENCH (CT), EMBEDDED (EM), OR PUSHED (P) OF THE SIZE SPECIFIED WITH THE NUMBER AND SIZE OF CABLES SPECIFIED. CONDUIT LENGTHS INCLUDE 3 FEET OF VERTICAL CONDUIT AT EACH LIGHT STANDARD.
- EXISTING LIGHT STANDARD
- EXISTING LIGHT STANDARD TO BE REMOVED

SCALE: 1" = 50'



KANE CO
 CIRCUIT CI
 OFFIC

REVISIONS	
NAME	DATE
PER BEO	10-7-04
REVIEW	

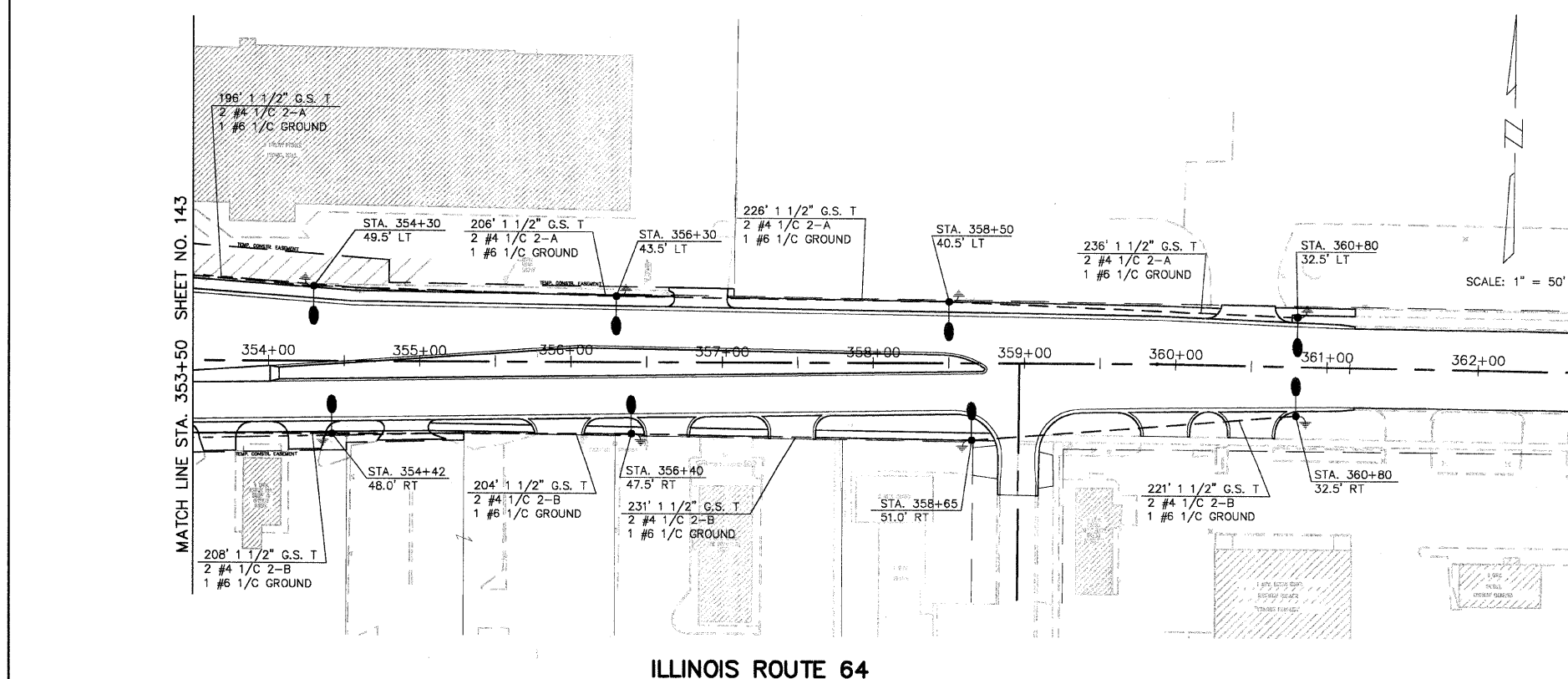
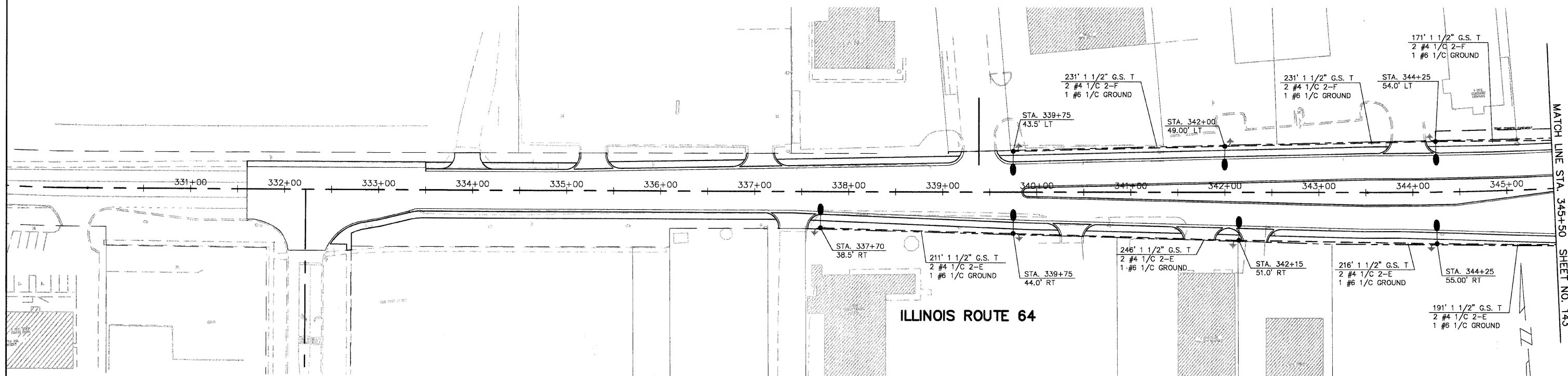
STREET LIGHTING PLAN

STATION 41+75 TO 57+00

RANDALL ROAD

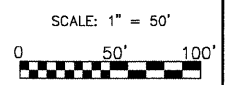
SCALE: AS SHOWN
 DATE: 5-26-04
 DRAWN BY: JMH
 CHECKED BY: DAY

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
CONTRACT NO. 83782			145
LIGHTING PLAN			
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(008)			



LEGEND

- PROPOSED LIGHT STANDARD WITH 310 WATT LUMINAIRE
- PROPOSED COMBINATION MAST ARM ASSEMBLY AND POLE WITH 400 WATT LUMINAIRE
- PROPOSED COMBINATION MAST ARM ASSEMBLY AND POLE WITH TWO LIGHTING MAST ARMS WITH 400 WATT LUMINAIRES
- PROPOSED LIGHTING CONTROLLER
- PROPOSED HANDHOLE
- GROUND ROD
- PROPOSED GFCI FESTOON OUTLET
- GALVANIZED STEEL CONDUIT IN TRENCH (T), IN COMMON TRENCH (CT), EMBEDDED (EM), OR PUSHED (P) OF THE SIZE SPECIFIED WITH THE NUMBER AND SIZE OF CABLES SPECIFIED. CONDUIT LENGTHS INCLUDE 3 FEET OF VERTICAL CONDUIT AT EACH LIGHT STANDARD.
- EXISTING LIGHT STANDARD
- EXISTING LIGHT STANDARD TO BE REMOVED



REVISIONS	
NAME	DATE
PER BEQ	10-7-04
REVIEW	

STREET LIGHTING PLAN

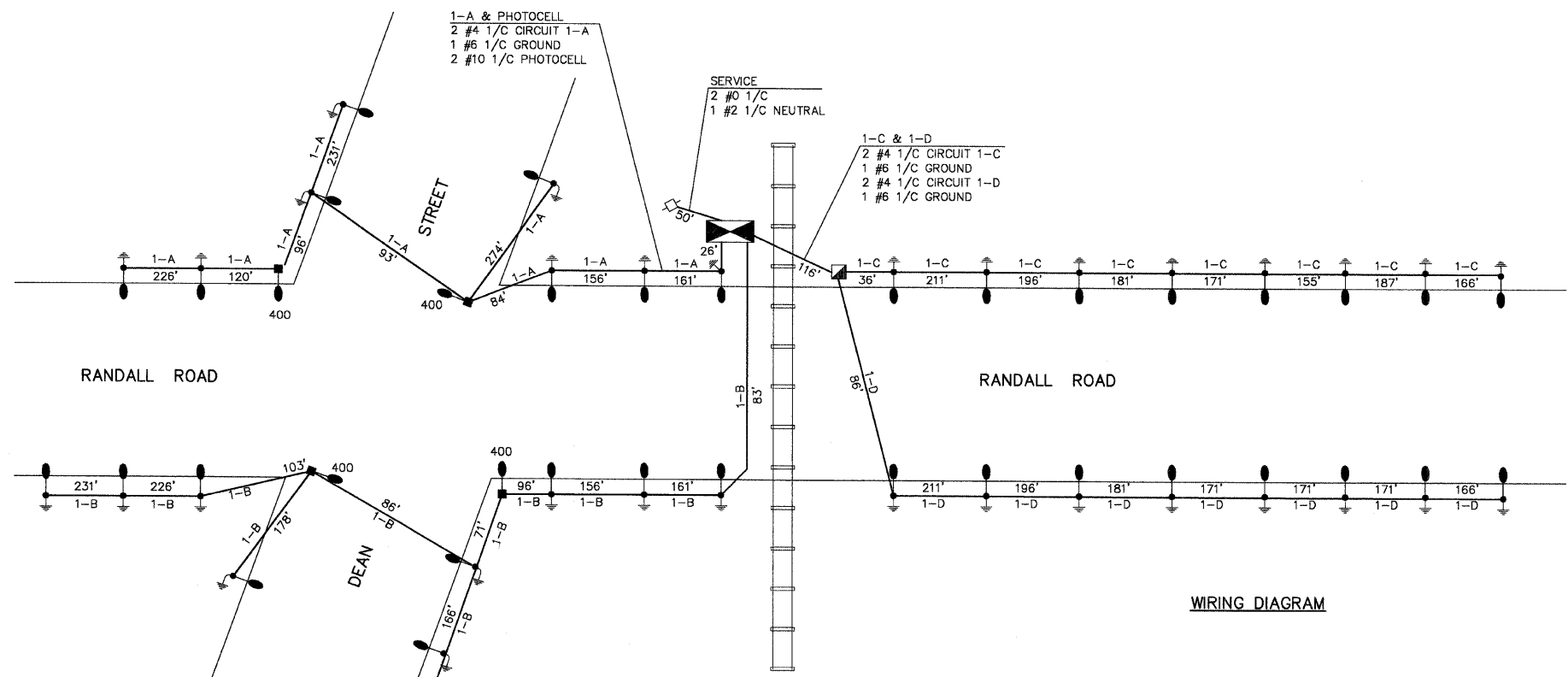
STATION 330+00 TO 360+00

MAIN STREET (ILLINOIS ROUTE 64)

SCALE: AS SHOWN
 DATE: 5-26-04

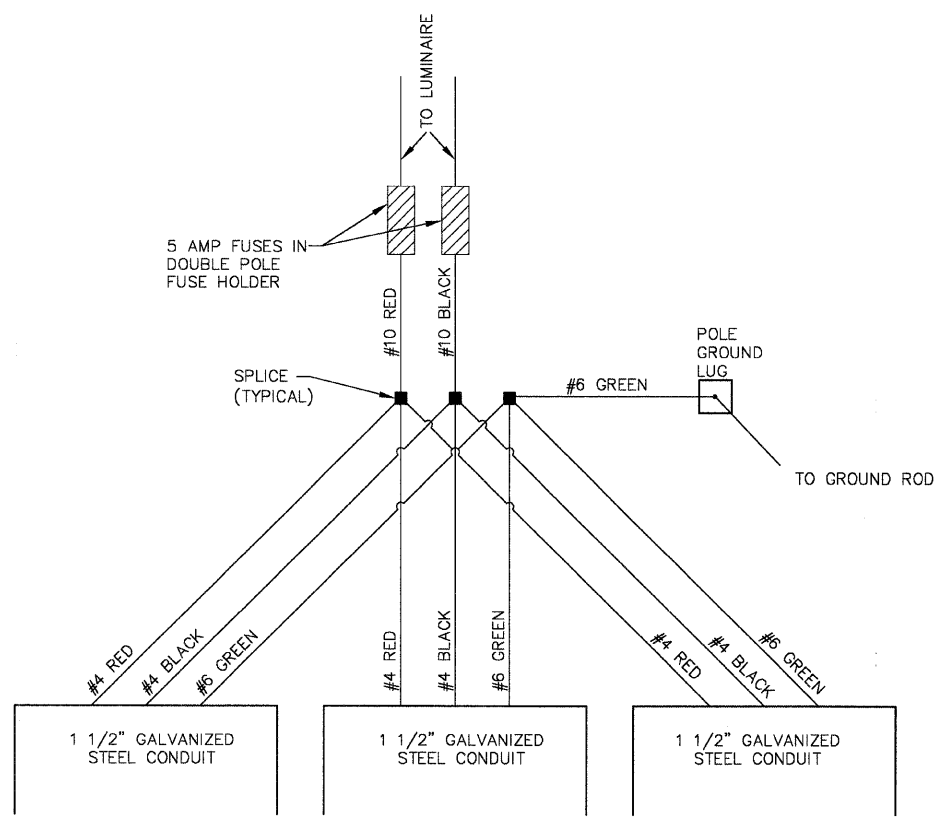
DRAWN BY: JMH
 CHECKED BY: DAY

F.A.P. ROUTE	COUNTY SECTION	COUNTY	TOTAL SHEET
336	99-00243-00-PV	KANE	268
CONTRACT NO. 83782		SHTS. NO. 146	
LIGHTING DETAILS			
F.H.W.A. REC. 5 ILLINOIS PROJECT F-0336(008)			

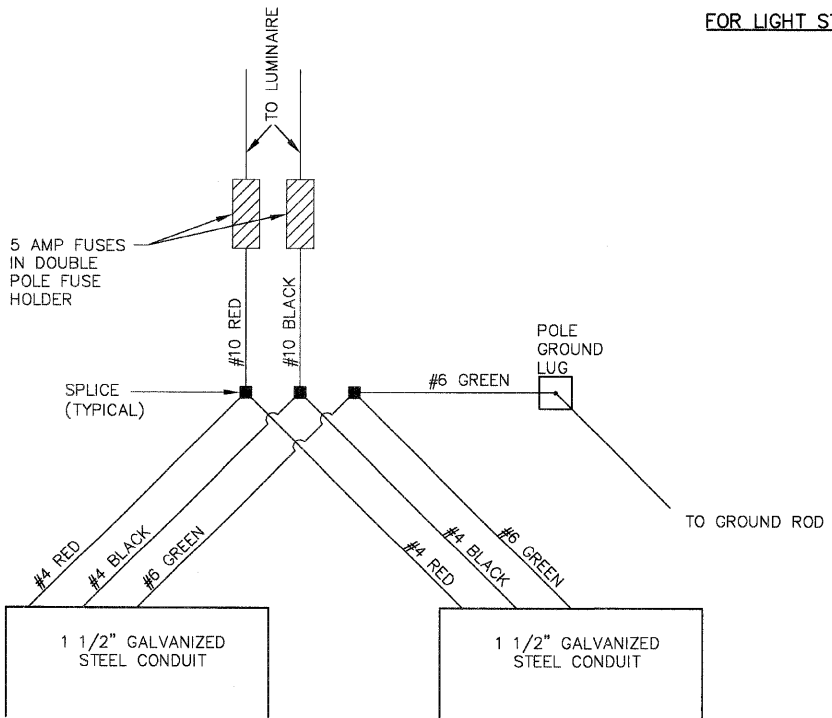


CIRCUIT	WATTS	AMPS
1-A	3,280	13.7
1-B	3,900	16.3
1-C	2,480	10.3
1-D	2,480	10.3
TOTAL	12,140	50.6

- LEGEND**
- LIGHT STANDARD WITH 310W LUMINAIRE
 - ⊕ GROUND ROD
 - COMBINATION MAST ARM ASSEMBLY AND POLE WITH 400 WATT LUMINAIRE
 - COMBINATION MAST ARM ASSEMBLY AND POLE WITH TWO MAST ARMS AND 400W LUMINAIRES
 - ▭ LIGHTING CONTROLLER
 - ▭ HANDHOLE
 - ▼ PROPOSED FESTOON OUTLET
 - 2-B GALVANIZED STEEL CONDUIT FOR THE CIRCUIT SPECIFIED. EACH CONDUIT CONTAINS: 2 #4 1/C STREET LIGHTS 1 #6 1/C GROUND UNLESS OTHERWISE SHOWN
 - 215
 - POWER POLE



POLE WIRING DETAIL FOR LIGHT STANDARDS AND COMBINATION MAST ARM ASSEMBLIES AND POLES WITH THREE CONDUITS



POLE WIRING DETAIL FOR LIGHT STANDARDS AND COMBINATION MAST ARM ASSEMBLIES AND POLES WITH TWO CONDUITS

REVISIONS	
NAME	DATE
PER BEO REVIEW	10-7-04
PER BEO REVIEW	12-29-04

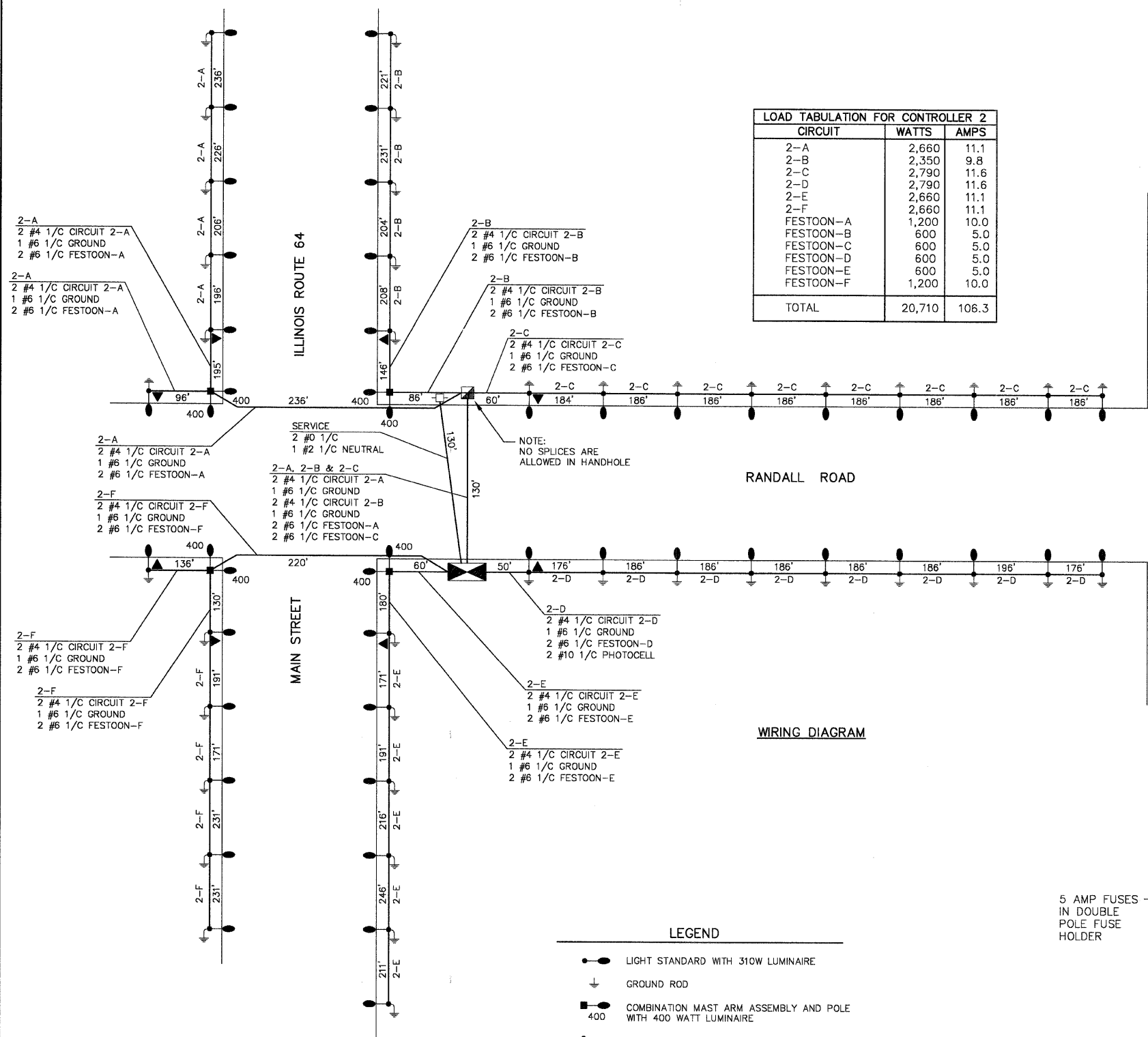
STREET LIGHTING DETAILS

CONTROLLER 1 AND POLE WIRING DIAGRAMS

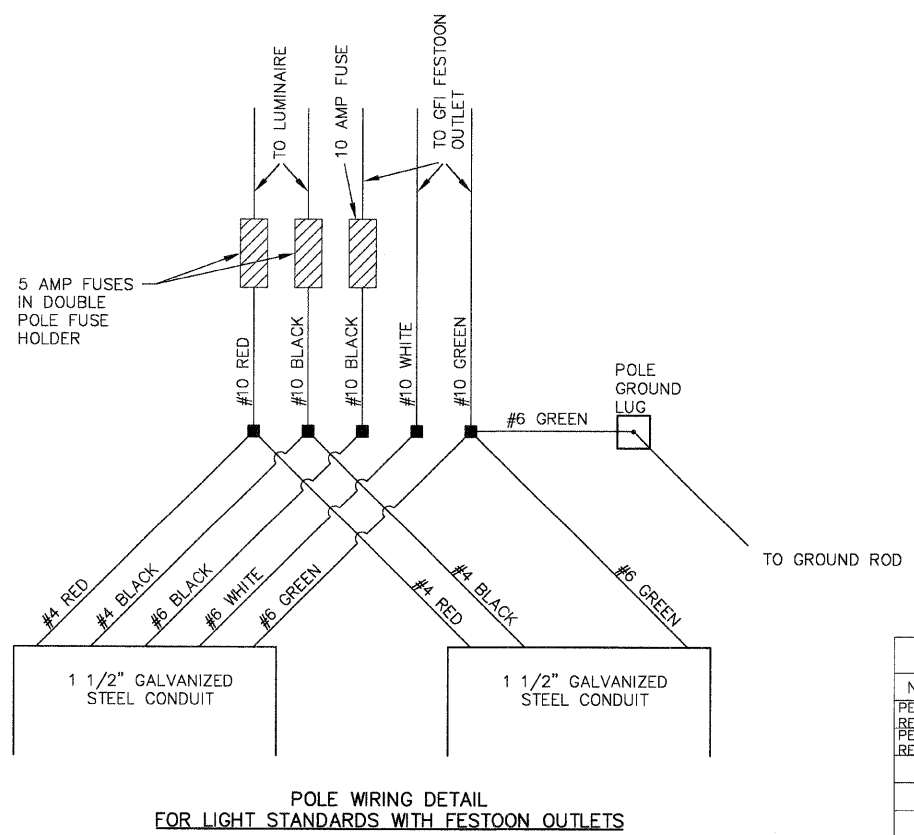
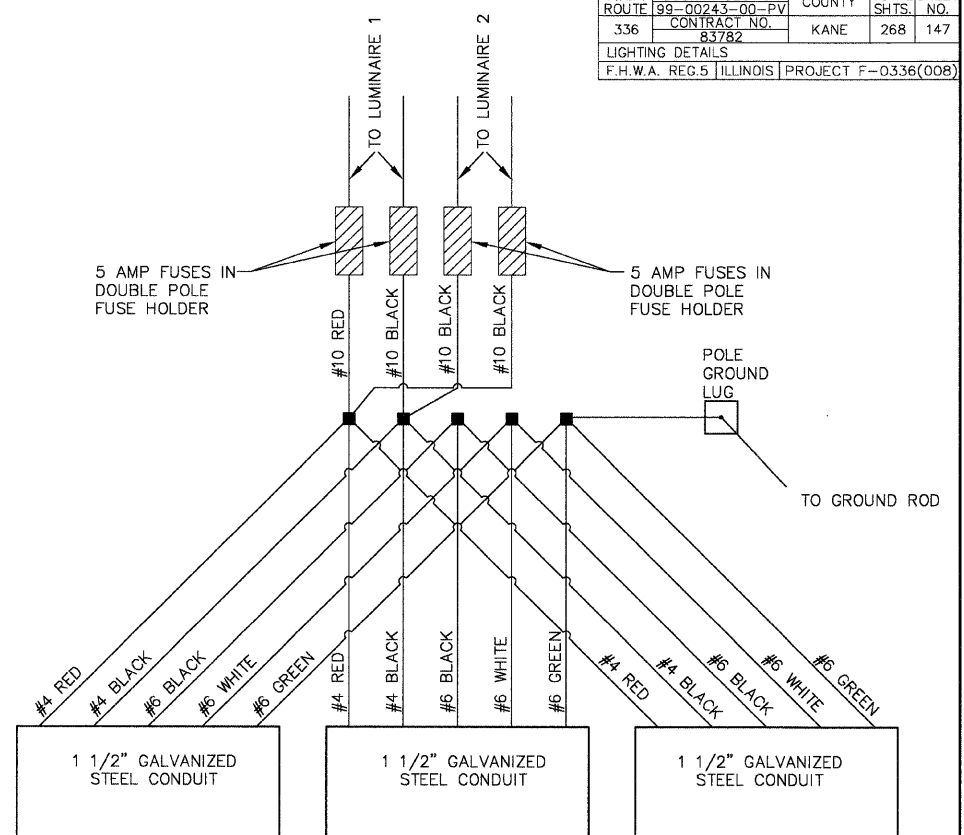
RANDALL ROAD

SCALE: NONE DRAWN BY: JMH
DATE: 5-26-04 CHECKED BY: DAY

CIRCUIT	WATTS	AMPS
2-A	2,660	11.1
2-B	2,350	9.8
2-C	2,790	11.6
2-D	2,790	11.6
2-E	2,660	11.1
2-F	2,660	11.1
FESTOON-A	1,200	10.0
FESTOON-B	600	5.0
FESTOON-C	600	5.0
FESTOON-D	600	5.0
FESTOON-E	600	5.0
FESTOON-F	1,200	10.0
TOTAL	20,710	106.3



- LEGEND**
- LIGHT STANDARD WITH 310W LUMINAIRE
 - ⊥ GROUND ROD
 - COMBINATION MAST ARM ASSEMBLY AND POLE WITH 400 WATT LUMINAIRE
 - COMBINATION MAST ARM ASSEMBLY AND POLE WITH TWO MAST ARMS AND 400W LUMINAIRES
 - ⊠ LIGHTING CONTROLLER
 - HANDHOLE
 - ▽ PROPOSED FESTOON OUTLET
 - GALVANIZED STEEL CONDUIT FOR THE CIRCUIT SPECIFIED. EACH CONDUIT CONTAINS: 2 #4 1/C STREET LIGHTS, 1 #6 1/C GROUND UNLESS OTHERWISE SHOWN
 - POWER POLE



NAME	DATE
PER BEO	10-7-04
REVIEW	
PER BEO	12-29-04
REVIEW	

STREET LIGHTING DETAILS

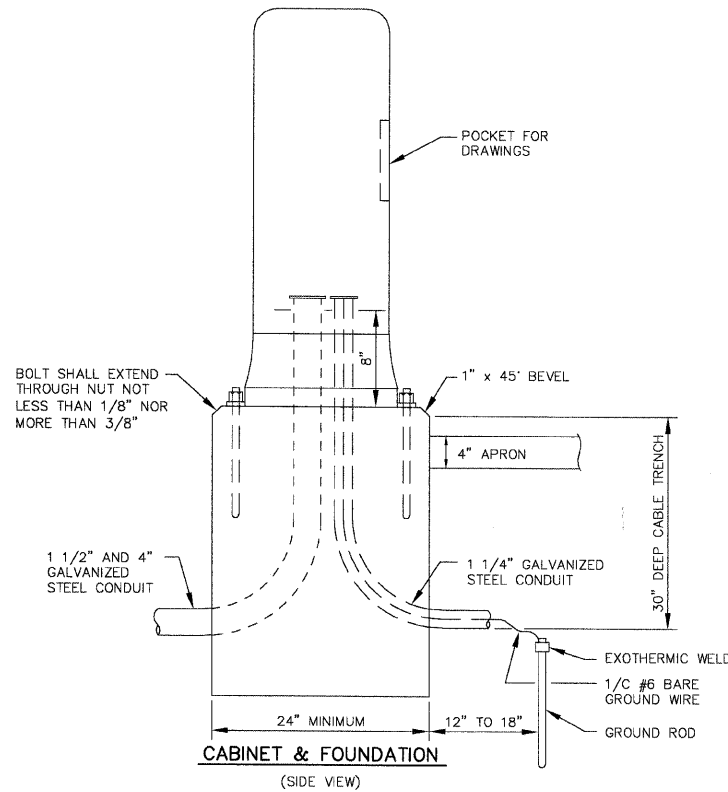
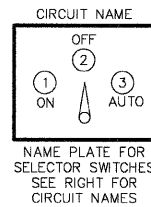
CONTROLLER 2 AND POLE WIRING DIAGRAMS

RANDALL ROAD

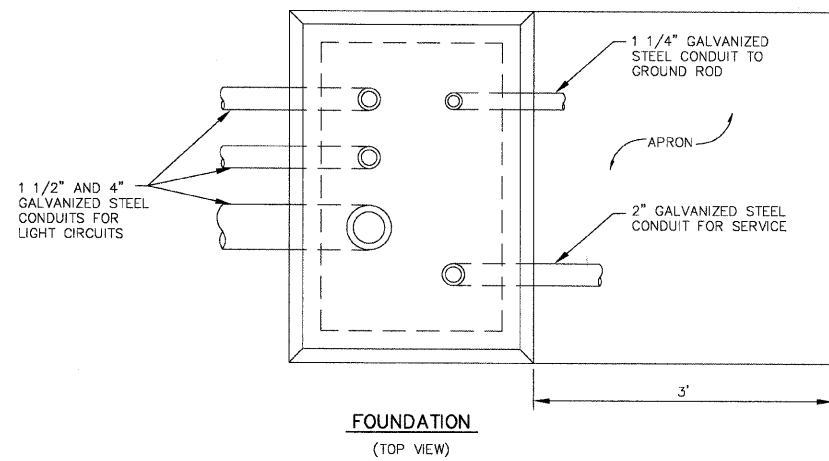
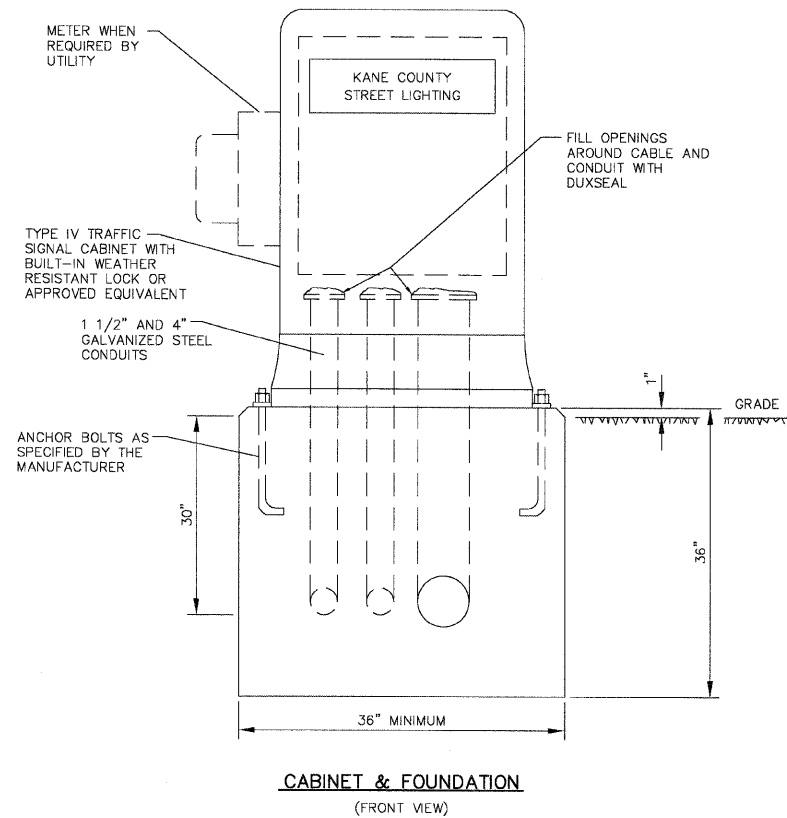
SCALE: NONE
DATE: 5-26-04

DRAWN BY: JMH
CHECKED BY: DAY

F.A.P. COUNTY SECTION	ROUTE 99-00243-00-PV	COUNTY	TOTAL SHEET
336	CONTRACT NO. B3782	KANE	268
CONTROL INSTALLATION, SPECIAL DETAIL			148
F.H.W.A. REG.5 ILLINOIS PROJECT F-0336(00B)			

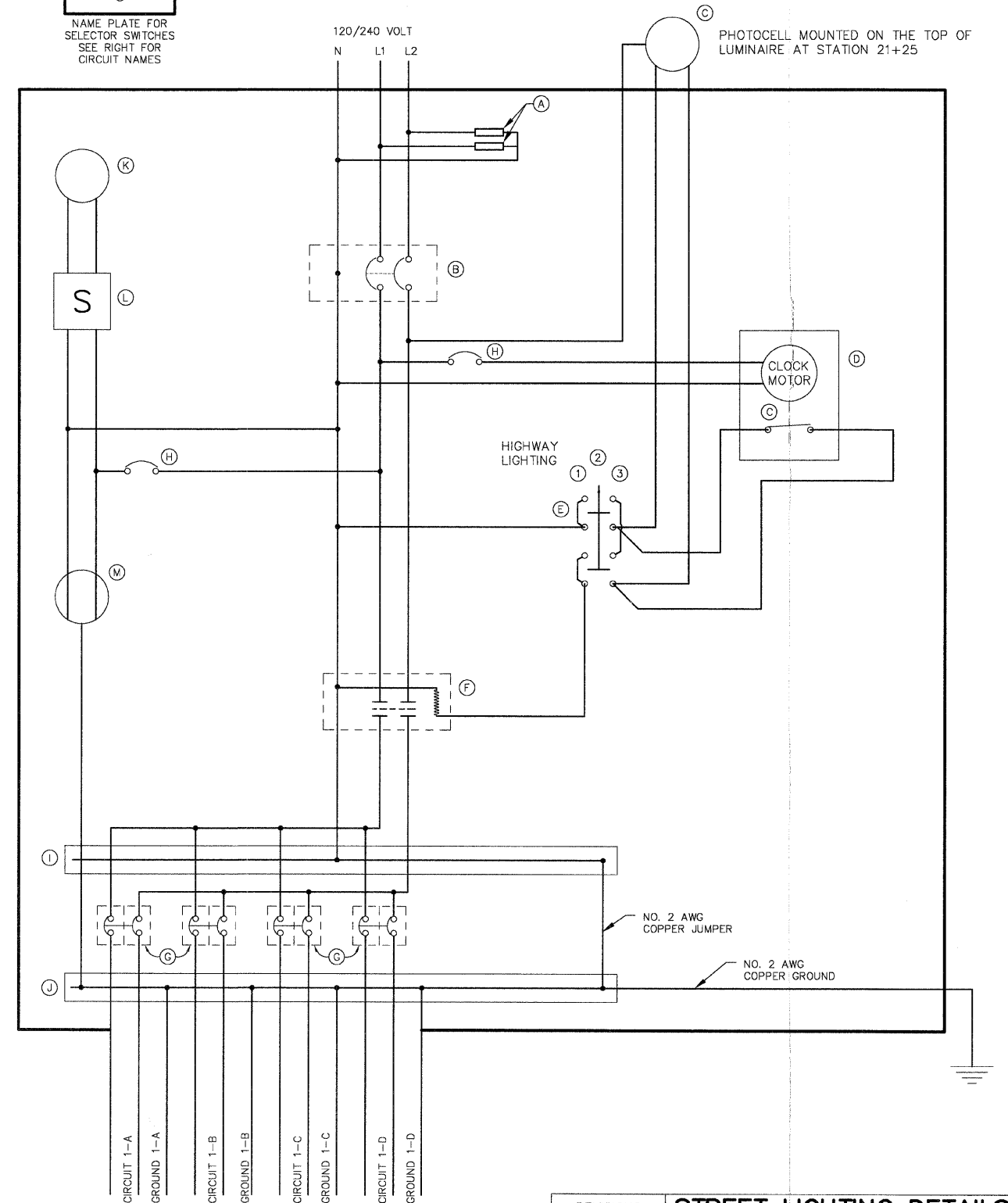


NOTE: CONCRETE FOUNDATION SHALL CONFORM TO STANDARD B78001 FOR TYPE D FOUNDATION.



ITEMS

- (A) LIGHTNING ARRESTERS
- (B) MAIN CIRCUIT BREAKER - MOLDED CASE, THERMAL MAGNETIC, 2-POLE, 600V. A.C., 100 AMP FRAME, 225A. NON-INTERCHANGABLE TRIP, BOLT-ON TYPE, INTERRUPTING CAPACITY OF NOT LESS THAN 22,000 RMS SYMMETRICAL AMPERES AT 480V.
- (C) PHOTOCELL
- (D) SINGLE CHANNEL ASTRONOMICAL CLOCK
- (E) SELECTOR SWITCH
- (F) CONTROL CONTACTOR; 100 AMP. TWO POLE
- (G) BRANCH CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 2-POLE, 240V. BOLT-IN TYPE 30A. WITH AN INTERRUPTING RATING OF NOT LESS THAN 22,000 RMS SYMMETRICAL AMPERES AT 240V.
- (H) CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 1-POLE, 120V., BOLT-ON TYPE, 20A. WITH AN INTERRUPTING RATING OF NOT LESS THAN 10,000 RMS SYMMETRICAL AMPERES AT 120V.
- (I) NEUTRAL BUS BAR
- (J) GROUND BUS BAR
- (K) CABINET LIGHT, 60 WATT INCANDESCENT
- (L) CABINET LIGHT SWITCH
- (M) GFCI DUPLEX OUTLET



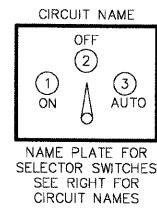
REVISIONS	
NAME	DATE
PER BEQ	10-7-04
REVIEW	
PER BEQ	12-29-04
REVIEW	

STREET LIGHTING DETAILS

CONTROL INSTALLATION, SPECIAL CONTROLLER 1

RANDALL ROAD

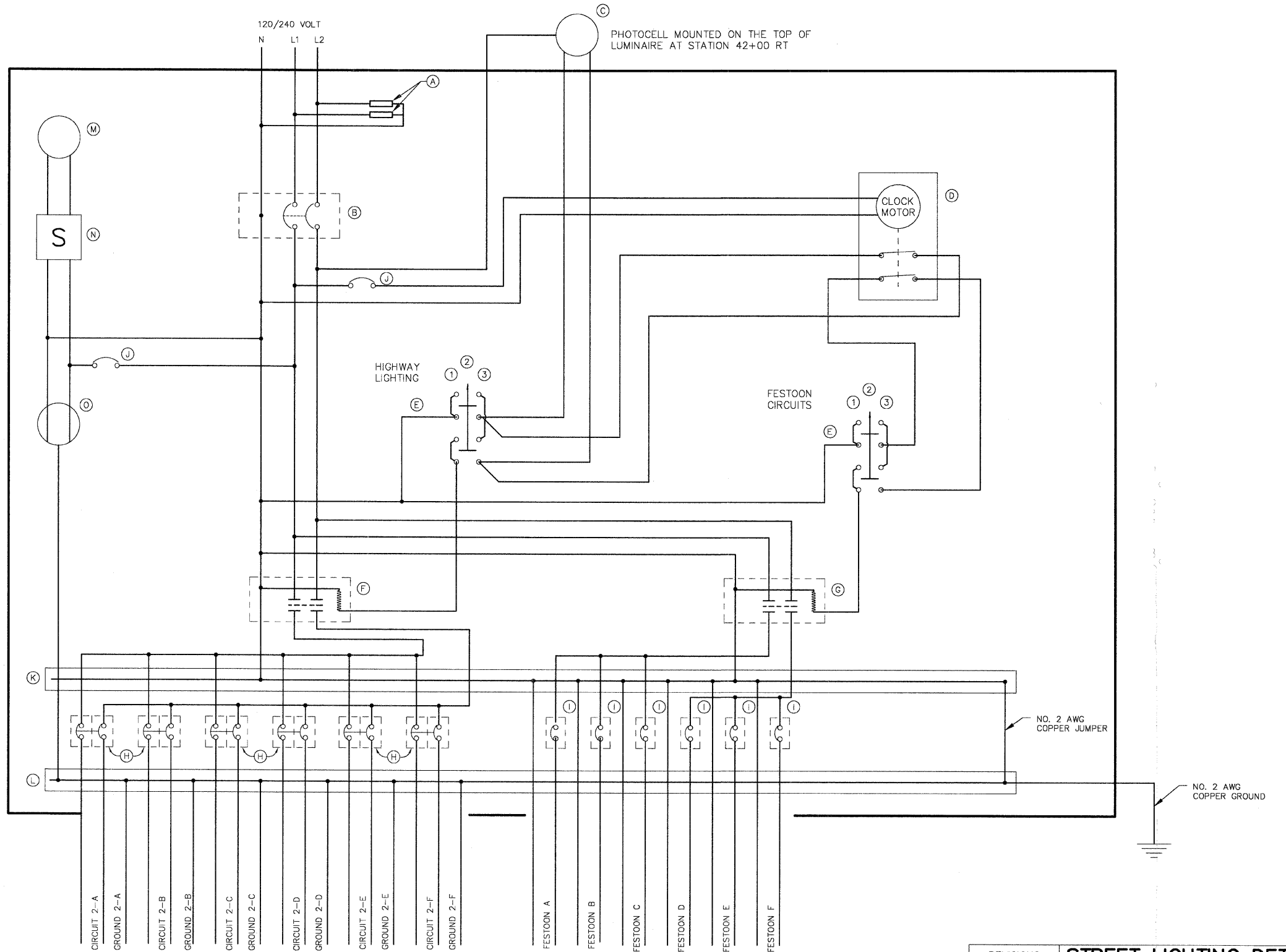
SCALE: NONE DRAWN BY: JMH
DATE: 5-26-04 CHECKED BY: DAY



ITEMS

- (A) LIGHTNING ARRESTERS
- (B) MAIN CIRCUIT BREAKER - MOLDED CASE, THERMAL MAGNETIC, 2-POLE, 600V. A.C., 150 AMP FRAME, 150A. NON-INTERCHANGABLE TRIP, BOLT-ON TYPE, INTERRUPTING CAPACITY OF NOT LESS THAN 22,000 RMS SYMMETRICAL AMPERES AT 480V.
- (C) PHOTOCELL
- (D) TWO CHANNEL ASTRONOMICAL CLOCK
- (E) SELECTOR SWITCH
- (F) CONTROL CONTACTOR; 100 AMP, TWO POLE
- (G) CONTROL CONTACTOR; 60 AMP, TWO POLE
- (H) BRANCH CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 2-POLE, 240V. BOLT-IN TYPE 20A. WITH AN INTERRUPTING RATING OF NOT LESS THAN 22,000 RMS SYMMETRICAL AMPERES AT 240V.
- (I) BRANCH CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 1-POLE, 120V., BOLT-ON TYPE, 20A. WITH AN INTERRUPTING RATING OF NOT LESS THAN 10,000 RMS SYMMETRICAL AMPERES AT 120V.
- (J) CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 1-POLE, 120V., BOLT-ON TYPE, 20A. WITH AN INTERRUPTING RATING OF NOT LESS THAN 10,000 RMS SYMMETRICAL AMPERES AT 120V.
- (K) NEUTRAL BUS BAR
- (L) GROUND BUS BAR
- (M) CABINET LIGHT, 60 WATT INCANDESCENT
- (N) CABINET LIGHT SWITCH
- (O) GFCI DUPLEX OUTLET

SEE CONTROLLER 1 DETAIL
FOR CABINET AND
FOUNDATION DETAILS



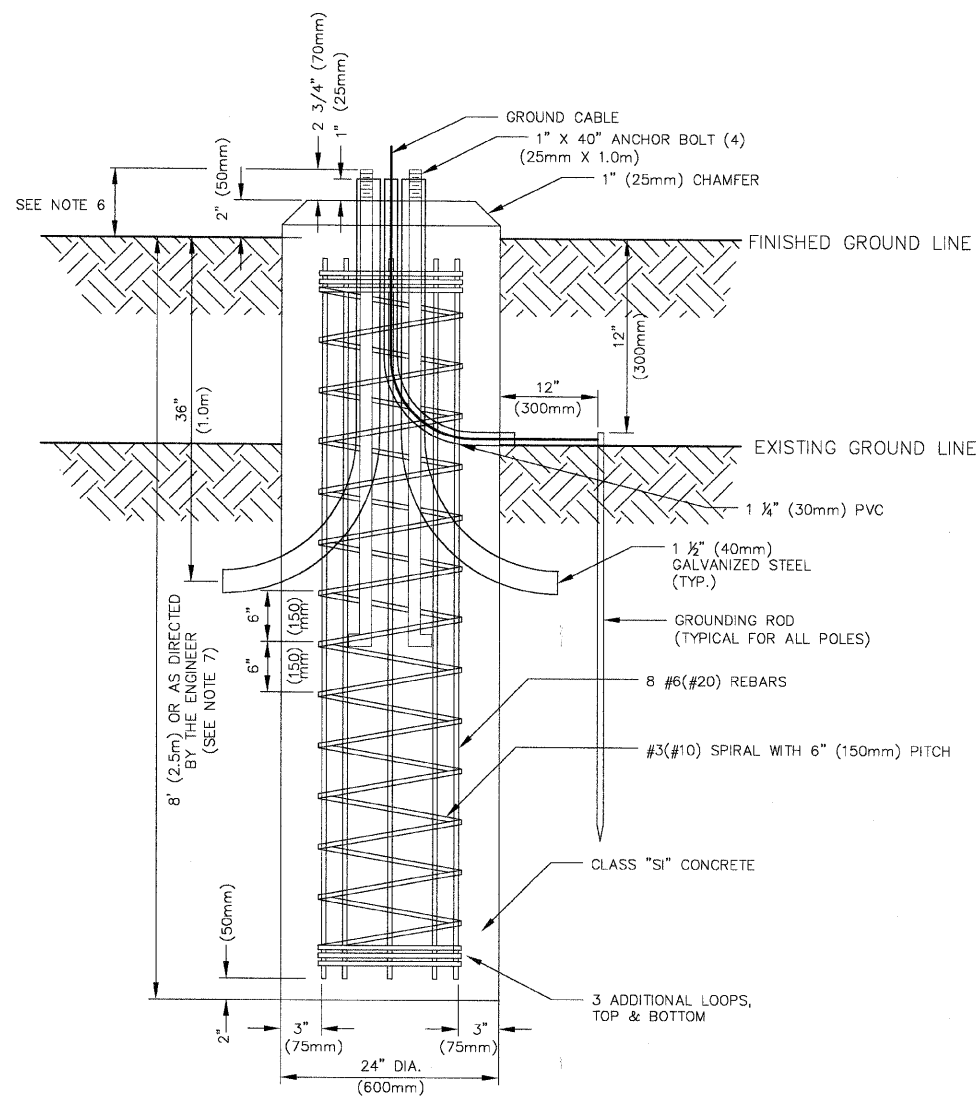
REVISIONS	
NAME	DATE
PER BEG	10-7-04
REVIEW	
PER BEG	12-29-04
REVIEW	

STREET LIGHTING DETAILS

CONTROL INSTALLATION, SPECIAL
CONTROLLER 2

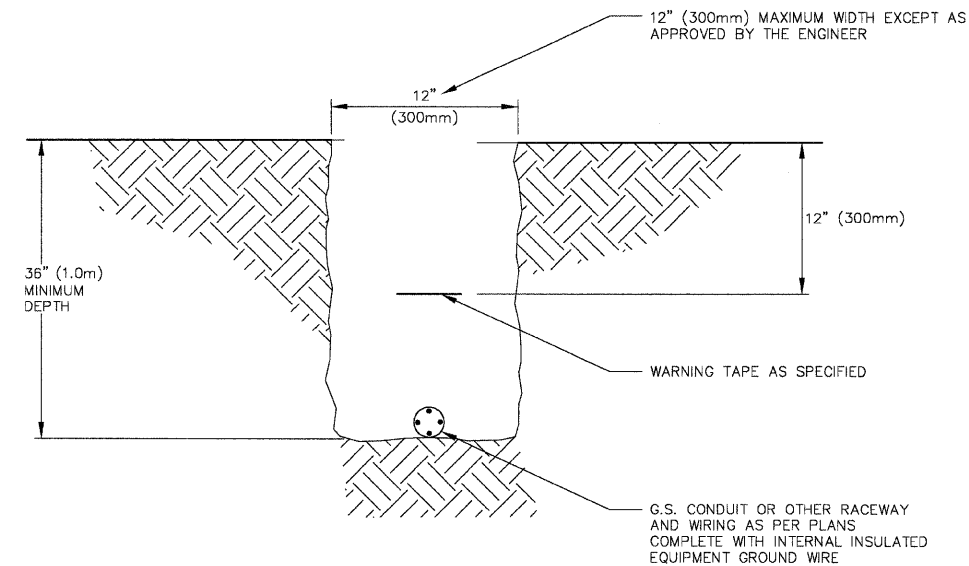
RANDALL ROAD

SCALE: NONE DRAWN BY: JMH
DATE: 5-26-04 CHECKED BY: DAY



SECTION A-A
N.T.S.

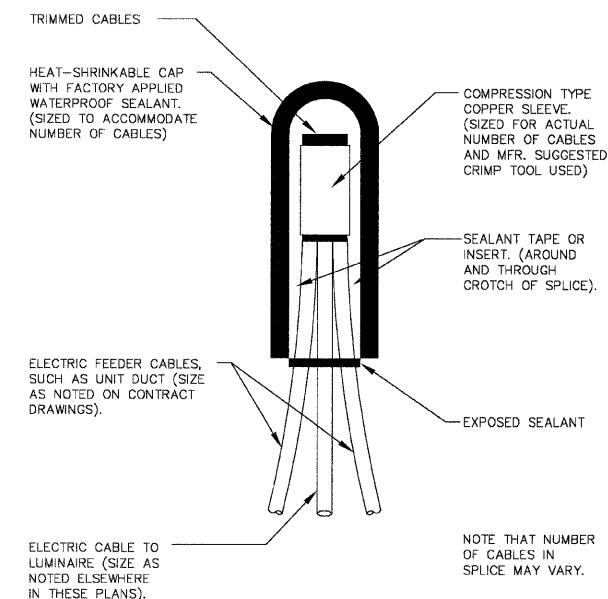
- MINIMUM UNCONFINED COMPRESSIVE STRENGTH FOR COHESIVE SOILS $Q_u = 0.8$ TONS PER SQ. FT. MINIMUM STANDARD PENETRATION TEST VALUE FOR GRANULAR SOILS $N = 10$ BLOWS PER FOOT.
- MINIMUM COMPRESSIVE STRENGTH FOR CONCRETE SHALL BE 3500 PSI AT THE END OF 28 DAYS.
- ALL REINFORCEMENT SHALL BE EPOXY COATED WITH A MINIMUM YIELD POINT OF 60000 PSI.
- THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN FORMS.
- EXCAVATION FOR THE POLE FOUNDATION SHALL BE WITH AN AUGER 24 INCHES (600mm) IN DIAMETER.
- WHEN INSTALLED WITHIN THE CLEAR ZONE, THE FOUNDATION, WITH ANCHOR RODS AND BREAKAWAY DEVICE INCLUDED, SHALL NOT PROTRUDE MORE THAN 4 INCHES (100mm) ABOVE THE FINISHED GRADE.
- THE FOLLOWING FOUNDATIONS MAY BE PLACED WITHIN THE LIMITS OF THE TRENCH BACKFILL THAT WAS PLACED FOR THE INSTALLATION OF STORM SEWER, WATER MAIN OR OTHER UTILITIES. THIS MAY REQUIRE THE USE OF A FORM TO PREVENT THE TRENCH BACKFILL MATERIAL FROM ENTERING THE EXCAVATION. IN ADDITION, DUE TO THE DEPTHS OF SOME UTILITIES, DEPTHS BEYOND THE NOMINAL 8 FEET SHOWN MAY BE NEEDED AT SOME LOCATIONS. THE EXCAVATIONS FOR THESE LOCATIONS SHALL BE INSPECTED BY THE ENGINEER PRIOR TO INSTALLING THE REINFORCING BARS. THE ENGINEER SHALL DETERMINE IF ADDITIONAL FOUNDATION DEPTH IS REQUIRED DUE TO SOIL CONDITIONS ACCORDING TO THE FOUNDATION DEPTH TABLE BELOW. A QUANTITY OF 240 FEET OF ADDITIONAL LIGHT POLE FOUNDATION, 24" DIAMETER HAS BEEN INCLUDED. A QUANTITY OF 36 FEET OF LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET HAS BEEN INCLUDED IN THE EVENT THAT A STANDARD FOUNDATION CAN NOT BE USED.



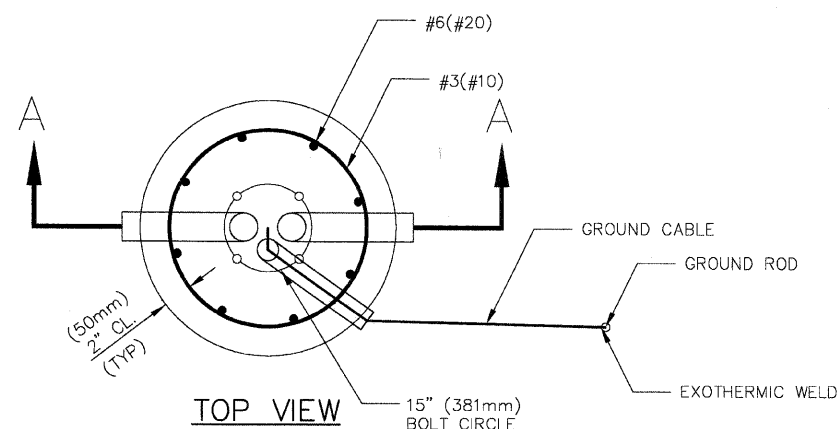
TYPICAL CONDUIT IN TRENCH DETAIL
N.T.S.

RANDALL ROAD		MAIN STREET (ILL. ROUTE 64)
11+50 RT	37+50 RT	337+70 RT
27+60 RT	37+50 LT	339+75 RT
29+35 RT	41+30 RT	342+15 RT
29+35 LT	43+00 RT	344+25 RT
31+00 RT	44+80 RT	346+10 RT
31+00 LT	46+60 RT	347+75 RT
32+65 RT	48+40 RT	354+30 LT
32+49 LT	50+20 RT	354+42 RT
34+30 RT	53+90 RT	356+40 RT
34+30 LT	55+60 RT	
35+90 RT		
35+90 LT		

LIGHT POLE FOUNDATION DEPTH TABLE	
SOIL CONDITIONS	DESIGN DEPTH OF FOUNDATION
	SINGLE ARM POLE
SOFT CLAY $Q_u = 0.375$ TON/SQ. FT.	3.96M (13'-0")
MEDIUM CLAY $Q_u = 0.75$ TON/SQ. FT.	2.09M (9'-6")
STIFF CLAY $Q_u = 1.50$ TON/SQ. FT.	2.13M (7'-0")
LOOSE SAND $\phi = 34'$	2.74M (9'-0")
MEDIUM SAND $\phi = 37.5'$	2.52M (8'-3")
DENSE SAND $\phi = 40'$	2.36M (7'-9")



SPlicing ELECTRIC CABLES BASIC MATERIALS AND METHODS
N.T.S.



TOP VIEW
LIGHT POLE FOUNDATION DETAIL
N.T.S.

REVISIONS	
NAME	DATE
PER BEO REVIEW	10-7-04
PER BEO REVIEW	12-29-04

STREET LIGHTING DETAILS

LIGHT POLE FOUNDATION
CONDUIT IN TRENCH
CABLE SPLICE

RANDALL ROAD

SCALE: NONE
DATE: 5-26-04

DRAWN BY: JMH
CHECKED BY: DAY