

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

F.A.I. ROUTE 290 / F.A.P. ROUTE 342 I-290 / ILL 53
US 12 (RAND RD.) TO ILL 72 (HIGGINS RD.)
SECTION: (531-3.1, 0305-302 K) RS-5
RESURFACING, BRIDGE DECK REPAIR, JOINT REPAIR
PROJECT: --
COOK COUNTY
C-91-033-10

FOR INDEX OF SHEETS, SEE SHEET NO. 2

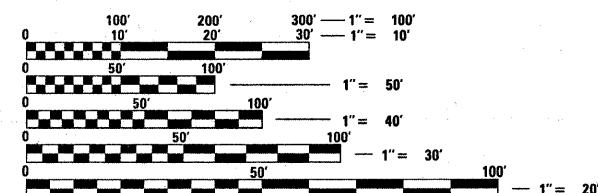
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(531-3.1, 0305-302) RS-5	COOK	314	1
FED. ROAD DIST. NO. 1	ILLINOIS	CONTRACT NO. 60138		

★ 314 + 2 = 316

D-91-033-10



PROJECT IS LOCATED IN THE CITY OF
ROLLING MEADOWS AND THE VILLAGES OF
ARLINGTON HEIGHTS, PALATINE, & SCHAUMBURG



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

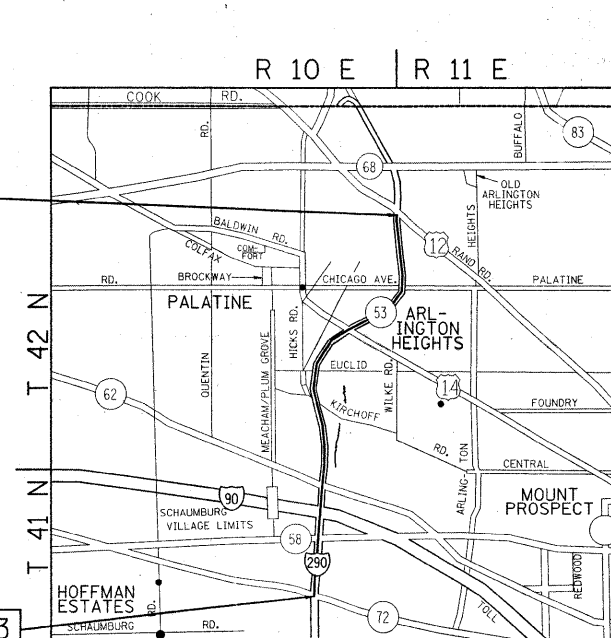
J.U.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENDS STA. 436+00

RESURFACING OMISSIONS:

STA. 81+05 TO STA. 82+71
STA. 109+80 TO STA. 112+01
STA. 133+91 TO STA. 137+47
STA. 153+26 TO STA. 154+74
STA. 173+87 TO STA. 178+97
STA. 224+22 TO STA. 230+98
STA. 274+37 TO STA. 280+65
STA. 298+84 TO STA. 308+60
STA. 360+26 TO STA. 366+78
STA. 383+64 TO STA. 389+05
STA. 433+68 TO STA. 436+00

PROJECT BEGINS STA. 58+43



PALATINE, SCHAUMBURG
& ELK GROVE TOWNSHIPS

TRAFFIC DATA (MAINLINE)
SPEED LIMIT: 55 MPH
2007 ADT: 194,100

PROJECT ENGINEER: DAN WILGREEN (847) 705-4240
PROJECT MANAGER: KEN ENG

CONTRACT NO. 60138

GROSS LENGTH OF PROJECT = 37,757 FEET (7.2 MILES)
NET LENGTH OF PROJECT = 32,651 FEET (6.2 MILES)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED FEBRUARY 3, 2010
Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
March 19, 2010
Scott E. Stott, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT
March 19, 2010
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS		STATE STANDARDS		GENERAL NOTES:
SHEET NO.	DESCRIPTION			
1	TITLE SHEET	000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS	BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)
2	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES	442201-03	CLASS C AND D PATCHES	
3-5	SUMMARY OF QUANTITIES	482011-03	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS	THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, THE CITY OF ROLLING MEADOWS, AND THE VILLAGES OF ARLINGTON HEIGHTS, PALATINE, & SCHAUMBURG.
6-10	SUGGESTED SEQUENCE OF OPERATIONS FOR ROADWAY WORK (TYPICAL & NOTES)	602001-01	CATCH BASIN TYPE A	
11-13	TYPICAL SECTIONS	604036-02	GRATE TYPE 8	THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
14-46	ROADWAY & PAVEMENT MARKING PLANS	606401-01	PAVED DITCH	
46A, 46B	TRAFFIC PLAN DETAILS	635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT	ALL HOT-MIX ASPHALT PAVEMENT PATCHING SHALL BE CLASS D.
47-137	MAINTANENCE OF TRAFFIC PLANS FOR BRIDGE REPAIRS	642001-01	SHOULDER RUMBLE STRIPS	
138-263	BRIDGE JOINT REPAIR PLANS	664001-02	CHAIN LINK FENCE	BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
264-269	FRONTAGE ROAD DRAINAGE PLANS	701101-02	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE	
270-274	DETECTOR LOOP REPLACEMENT PLANS	701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M) AWAY	WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40MM) WHERE THE SPEED LIMIT IS 45 MPH (80KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80 KM/H), WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
275-297	INDUCTION LOOP PLANS	701400-04	APPROACH TO LANE CLOSURE, FREEWAY/ EXPRESSWAY	
298	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER (BD-07)	701401-05	LANE CLOSURE FREEWAY/ EXPRESSWAY	10 FEET (3 METER) TRANSITION SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER TO EXISTING CURB AND GUTTERS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
299	PAVEMENT PATCHING FOR HOT-MIX ASPHALT SURFACED PAVEMENT (BD-22)	701411-06	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH	
300	BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS (BD-32)	701426-03	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≥ 45 MPH	THE RESIDENT ENGINEER SHALL VERIFY THE LOCATIONS OF ALL EXISTING PAVEMENT MARKINGS PRIOR TO MILLING OR RESURFACING.
301	FREEWAY ENTRANCE AND EXIIT RAMP CLOSURE DETAILS (TC-08)	701446-01	TWO LANE CLOSURE FREEWAY/ EXPRESSWAY	
303	FREEWAY SINGLE AND MULTI-LANE WEAVE (TC-09)	701601-06	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN	ALL PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE IMPROVEMENT ACCORDING TO DISTRICT 1 TYPICAL PAVEMENT MARKING.
304	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC-11)	701701-06	URBAN LANE CLOSURE MULTILANE INTERSECTION	
305	MULTI-LANE FREEWAY PAVEMENT MARKING (TC-12)	701901-01	TRAFFIC CONTROL DEVICES	TWO WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS, CONTACT WALLY CZARNY, AREA TRAFFIC FIELD ENGINEER AT (773) 685-4342.
306	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)	704001-06	TEMPORARY CONCRETE BARRIER	
307	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)	720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS	RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED THROUGHOUT THE IMPROVEMENT ACCORDING TO THE DISTRICT STANDARDS AS NOTED IN THE DETAIL.
308	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16)	728001-01	TELESCOPING STEEL SIGN SUPPORT	
309	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)	729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS AND MARKERS)	THE UNIT WEIGHT (CONVERSION FACTOR) QUOTED IS FOR THE ESTIMATING PLAN QUANTITIES ONLY. ACTUAL QUANTITIES TO FULFILL CONTRACT REQUIREMENTS WILL BE DETERMINED BASED ON UNIT WEIGHT OF APPROVED MIX DESIGN, PLAN DIMENSIONS, AND DENSITY LIMITATIONS. MAXIMUM PAYMENT WILL BE COMPUTED BASED ON WEIGHT AVERAGE DENSITIES OF THE IN-PLACE MIXTURE.
310	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS (TC-18)			
311	TRAFFIC CONTROL DETAILS FOR FREEWAY CENTER LANE CLOSURE SHOULDER LANE (TC-25)			THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.
312	DISTRICT 1 DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)			
313-314	TOLLWAY SIGNING			

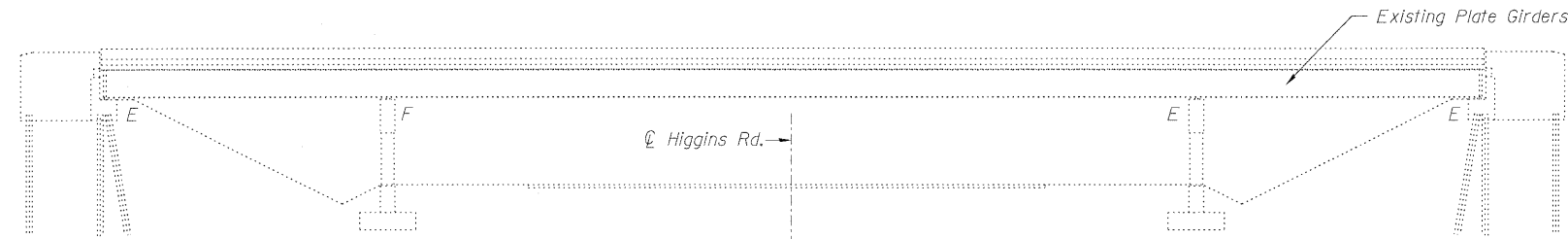
Existing Structure: S.N. 016-0983 built in 1969 as F.A.I. Route 90, Section 0404-313-HB at Station 561+70.00. Structure consists of a three span steel plate girder bridge with 238'-4" back-to-back abutments, 74'-1³/₄" out-to-out deck width, multi-column piers and stub abutments. In 1989, expansion joints replaced, backwall repairs, and approaches rebuilt. In 1995, overlay replacement, expansion joints replaced, deck slab repairs, pin and connection replacement, and substructure repairs. In 2003, superstructure replacement, substructure widening, slopewall replacement, and substructure repairs.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

See Roadway plans for maintenance of traffic.



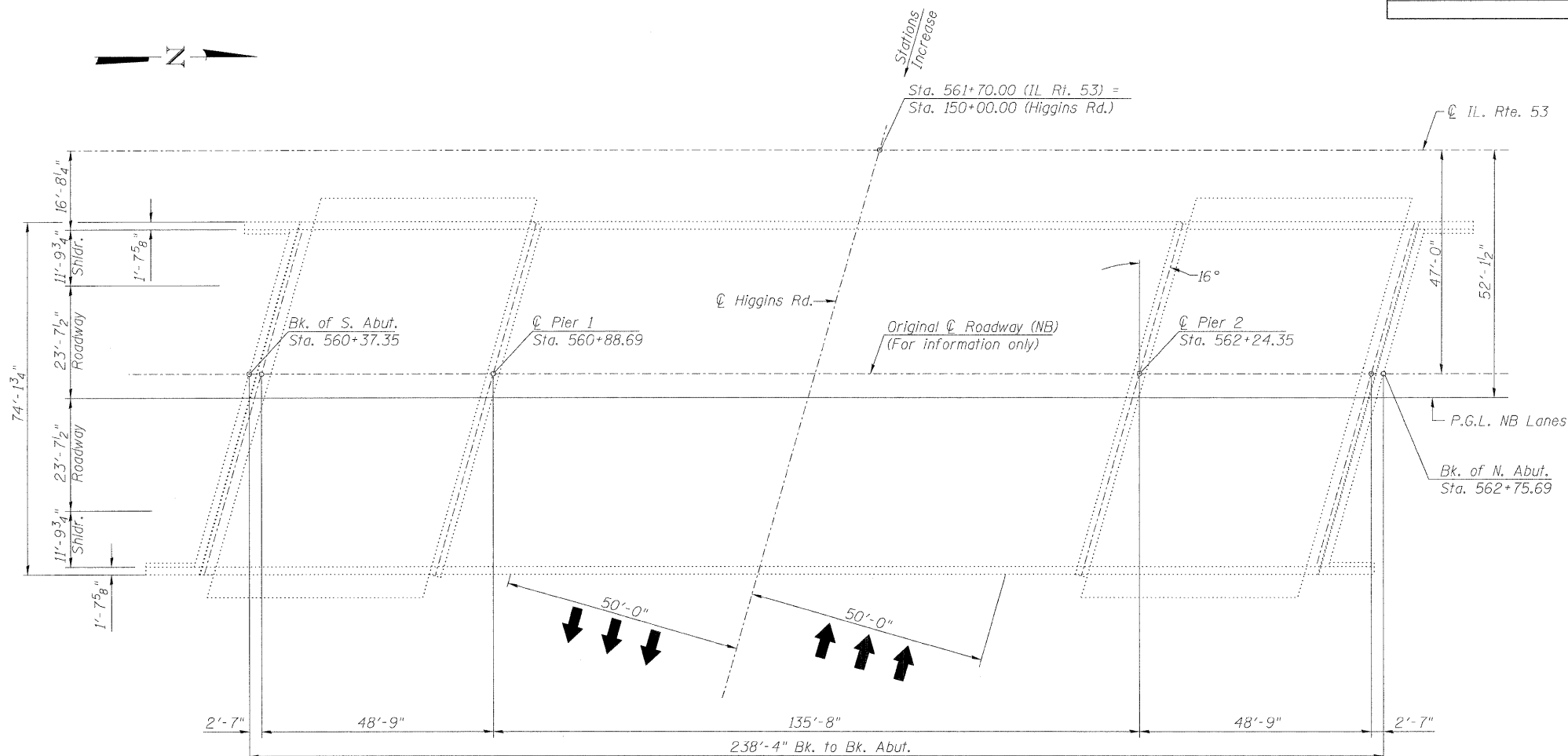
ELEVATION

TOTAL BILL OF MATERIAL

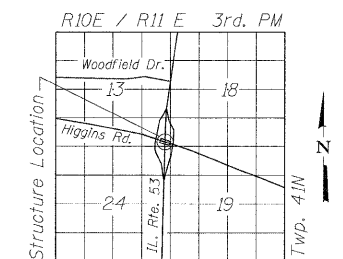
Item	Unit	Total
Concrete Sealer	Sq. Ft.	18364

SCOPE OF WORK

Apply Concrete Sealer to top of deck surface and top and inside vertical face of parapets.



PLAN



LOCATION SKETCH



Michael J. Haley 2/8/10
Michael T. Haley Date
Licensed Structural Engineer
State of Illinois No. 81-5991
Expires 11/30/2010

GENERAL PLAN AND ELEVATION
NB IL ROUTE 53 OVER HIGGINS RD.
F.A.I. 290 SEC (531-3.1,0305-302K)RS-5
COOK COUNTY
STATION 561+70.00
STRUCTURE NO. 016-0983

 LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois	SHEET NO. 1 1 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		290	(531-3.1,0305-302K)RS-5	COOK	314	263	
					CONTRACT NO. 60138		
		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
Designed By: ADB Checked By: MTH Drawn By: ADB							
Date: 12/20/99 File: 05: 0991.dwg							