

SUMMARY OF QUANTITIES										SUMMARY OF QUANTITIES							
CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE					CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE				
				0003	0003	0010	0010	0021					0003	0003	0010	0010	0021
				100% STATE	20% LOCAL 80% STATE	100% LOCAL	049-0533	049-0534					100% STATE	20% LOCAL 80% STATE	100% LOCAL	049-0533	049-0534
87200400	SPAN WIRE	FOOT	940	940					21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SO YD	28,412	28,412				
87200500	TETHER WIRE	FOOT	940	940					Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	7	7				
87302225	ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 3C	FOOT	830	830					Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	6	6				
87302245	ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 5C	FOOT	2,700	2,700					Z0030332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2				
87302255	ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 7C	FOOT	590	590					Z0030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	6	6				
87302505	ELECTRIC CABLE AERIAL SUSPENDED, SERVICE, NO. 6 2 C	FOOT	210	210					Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	133	133				
88700200	LIGHT DETECTOR	EACH	5	5					Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	10					10
88700300	LIGHT DETECTOR AMPLIFIER	EACH	2	2					Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1	1				
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5,274					5,274	Z0034210	MECHANICALLY STABILIZED EARTH RETAINING WALL	SO FT	15359	2710			9,009	3,640
X0323443	PRECAST MODULAR RETAINING WALL	SO FT	1,142	1,142					Z0042002	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	16465	16465				
X0325134	WIRELESS INTERCONNECT (COMPLETE)	EACH	1	1					Z0062456	TEMPORARY PAVEMENT	SO YD	8,010	8,010				
X0325598	DRAINAGE SCUPPERS, DS-12M10	EACH	12			6	6		Z0065704	BITUMINOUS COATED AGGREGATE SLOPEWALL 6"	SO YD	1,219			539	680	
X0326885	VIDEO DETECTION SYSTEM	EACH	2	2					Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SO FT	1,140	1,140				
X0327301	RELOCATE EXISTING MAILBOX	EACH	2			2(L)			Z0073345	SLEEPER SLAB	FOOT	589	589				
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	4	4					Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	4	4				
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	4	4					X8800025	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED	EACH	13	13				
X400110	TEMPORARY PAVEMENT REMOVAL	SO YD	6,560	6,560					X8800046	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, SPAN WIRE MOUNTED	EACH	2	2				
X4024100	TEMPORARY ACCESS (WINTERIZE)	SO YD	318	318					X0327391	WOOD POLE, 45 FOOT, CLASS 5	EACH	8	8				
X5010522	REMOVE CONCRETE END SECTION	EACH	9	9					81100320	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	40					40
X5538200	STORM SEWERS TO BE CLEANED 24"	FOOT	61	61					X8130370	JUNCTION BOX, NON-METALLIC, EMBEDDED IN STRUCTURE, 8" X 6" X 6"	EACH	4					4
60621600	CONCRETE MEDIAN, TYPE SM	SO FT	412	412					83050715	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 6 FT. DAVIT ARM	EACH	2					2
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1					X0327393	WOOD POLE, 100 FOOT, CLASS 2	EACH	2					2
X8250060	TEMPORARY LIGHTING CONTROLLER	EACH	1					1	X0327392	WOOD POLE, 60 FOOT, CLASS 4	EACH	1					1
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1	1					X5030272	BRIDGE DECK (SHRINKAGE REDUCING ADMIXTURE)	CU YD	265.9				265.9	
X8570230	FULL-ACTUATED CONTROLLER AND CABINET, TYPE V, SPECIAL	EACH	1	1					XX001249	ORNAMENTAL FENCE	FOOT	555	170			379(L)	
X8620200	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	2	2					X6062206	STAMPED COLORED P.C.C. MEDIAN SURFACE 6"	SO FT	13386	7282			6104(L)	
X8730255	ELECTRIC CABLE AERIAL SUSPENDED NO. 20 3/C, TWISTED, SHIELDED	FOOT	830	830					X6062243	STAMPED COLORED P.C.C. MEDIAN SURFACE 13"	SO FT	11090	6860			4230(L)	
30300112	AGGREGATE SUBGRADE IMPROVEMENT, 12"	SO YD	28,412	28,412					X0327391	BIKE PATH APPROACH GUARDRAIL ADJUSTMENT	FOOT	93	93				
Z0004552	APPROACH SLAB REMOVAL	SO YD	308	308					X60900200	NON-SPECIAL WASTE DISPOSAL	CU YD	16800	16800				
Z0005216	HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL	SO YD	306	306					X60900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1					X60900530	SOIL DISPOSAL ANALYSIS	EACH	3	3				
Z0014800	CULVERT TO BE CLEANED	FOOT	647	647													

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\* SPECIALTY ITEMS  
NOTES:  
1. COLUMN FOR "0003 20% LOCAL 80% STATE" THE LOCAL AGENCY IS LAKE COUNTY HIGHWAY DEPARTMENT  
2. COLUMN FOR "0003 100% LOCAL" THE LOCAL AGENCY IS VILLAGE OF WADSWORTH

3. (W) 100% VILLAGE OF WADSWORTH  
4. (L) 100% LAKE COUNTY

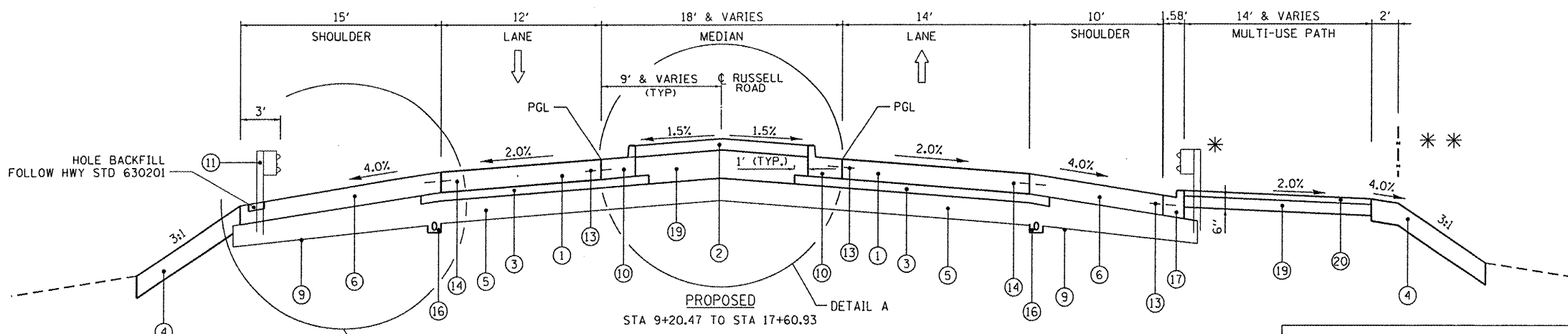
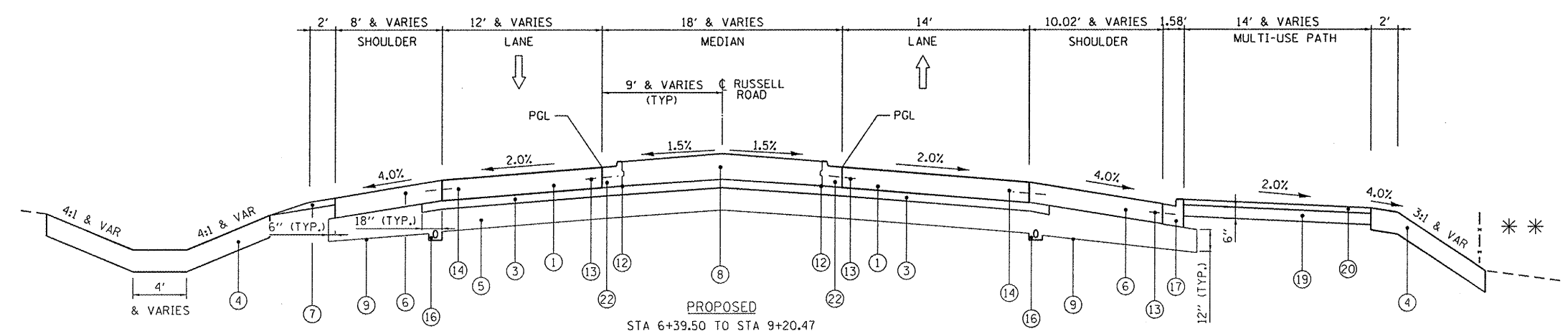
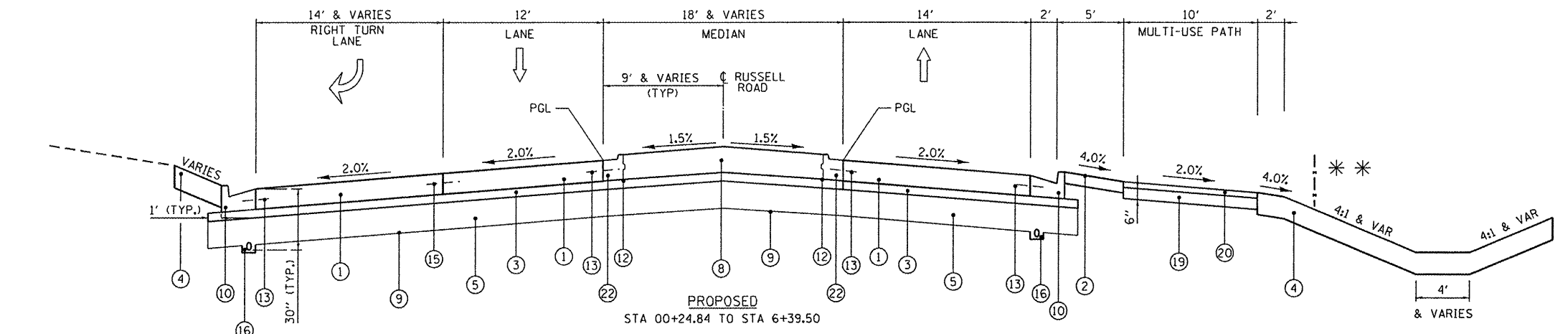
Rev. 4-17-12

FILE NAME: #FILES#	USER NAME: default	DESIGNED: RGR	REVISED:	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A. RTE. 94	SECTION 49-10HB & HB-1DR	COUNTY LAKE	TOTAL SHEETS 225	SHEET NO. 6	
PLOT SCALE: #SCALE#	CHECKED: RGR	DATE: 01/25/2012	REVISED:	SCALE: NA	SHEET NO. 4 OF 4 SHEETS	STA. NA	TO STA. NA	CONTRACT NO. 60L76			
PLOT DATE: 2/18/2012	DATE: 01/25/2012			ILLINOIS FED. AID PROJECT							

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**PROPOSED LEGEND**

- ① PORTLAND CEMENT CONCRETE PAVEMENT, 11" (JOINTED)
- ② STAMPED COLORED P.C.C. MEDIAN SURFACE 6 INCH
- ③ STABILIZED SUBBASE - HOT MIX ASPHALT, 4 1/2"
- ④ TOPSOIL EXCAVATION AND PLACEMENT (1')
- ⑤ AGGREGATE SUB-GRADE IMPROVEMENT, 12"
- ⑥ PORTLAND CEMENT CONCRETE SHOULDERS, 11"
- ⑦ AGGREGATE SHOULDER, 6", TYPE B
- ⑧ STAMPED COLORED P.C.C. MEDIAN SURFACE 13 INCH
- ⑨ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑩ COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ⑪ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
- ⑫ LONGITUDINAL KEYED CONSTRUCTION JOINT PER STD. 420001 (SHALL BE INCLUDED IN THE COST OF STAMPED COLORED P.C.C. MEDIAN SURFACE 13 INCH (SPECIAL))
- ⑬ LONGITUDINAL CONSTRUCTION JOINT. DRILL AND GROUT NO. 6 DEFORMED EPOXY TIE BARS 24" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF THE APPLICABLE COMB. CONC. CURB & GUTTER TYPE)
- ⑭ LONGITUDINAL CONSTRUCTION JOINT. DRILL AND GROUT NO. 6 DEFORMED EPOXY TIE BARS 30" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE SHOULDERS, 11")
- ⑮ LONGITUDINAL SAWS OR CONSTRUCTION JOINT. FOR LONGITUDINAL SAWS JOINT, POUR IN PLACE NO. 6 DEFORMED EPOXY TIE BARS 30" LONG AT 30" C-C. FOR LONGITUDINAL CONSTRUCTION JOINT, DRILL AND GROUT NO. 8 DEFORMED EPOXY TIE BARS 24" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE PAVEMENT, 11" (JOINTED))
- ⑯ PIPE UNDERDRAIN, 4"
- ⑰ COMBINATION CURB & GUTTER, TYPE B-6.12
- ⑱ CONCRETE MEDIAN, TYPE SM
- ⑲ AGGREGATE BASE COURSE, TYPE B
- ⑳ HOT MIX ASPHALT SURFACE COURSE MIX "D", N50 (3')
- ㉑ HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARDRAIL
- ㉒ COMBINATION CONCRETE CURB & GUTTER, TYPE M-2.12 (SPECIAL)



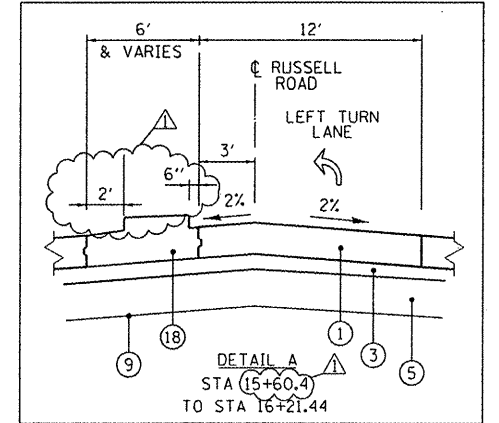
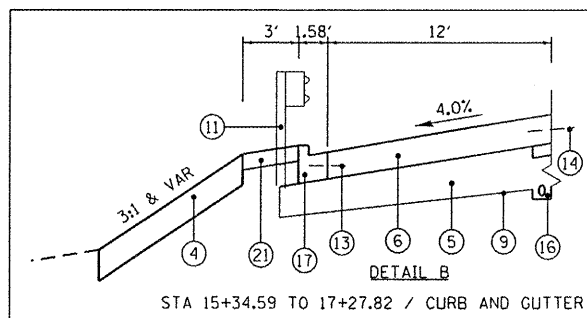
BRIDGE OMISSION  
STA 11+47.02 TO 15+42.11

**RUSSELL ROAD-STRUCTURAL PAVEMENT DESIGN BLOCK**

STRUCTURAL DESIGN TRAFFIC:	YEAR 2021
PV= 2,663	SU= 380
ROAD/STREET CLASSIFICATION:	MU= 761
P= 50%	S= 50%
TRAFFIC FACTOR:	ACTUAL TF= 4.84
	MINIMUM TF= NONE
	AC TYPE= N/A
SUBGRADE SUPPORT RATING:	SSR= POOR

\* PLACE BIKE PATH GUARDRAIL ADJUSTMENT FROM:  
STA 10+58.2 TO 11+51.0 (RT)

\* \* CHAIN LINK FENCE, 4':  
STA 3+71.16 TO 7+90.83 (LT)  
STA 3+71.7 TO 11+00 (RT)  
ORNAMENTAL FENCE:  
SAT 10+58.20 TO 11+53.12 (RT)  
STA 15+52 TO 17+24 (RT)



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FILE NAME = #FILES#	USER NAME = default	DESIGNED - JGR	REVISED - 4/16/12 RGR
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		CHECKED - RGR	REVISED -
		DATE - 03/09/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE:	SHEET NO. 2 OF 4 SHEETS	STA.	TO STA.
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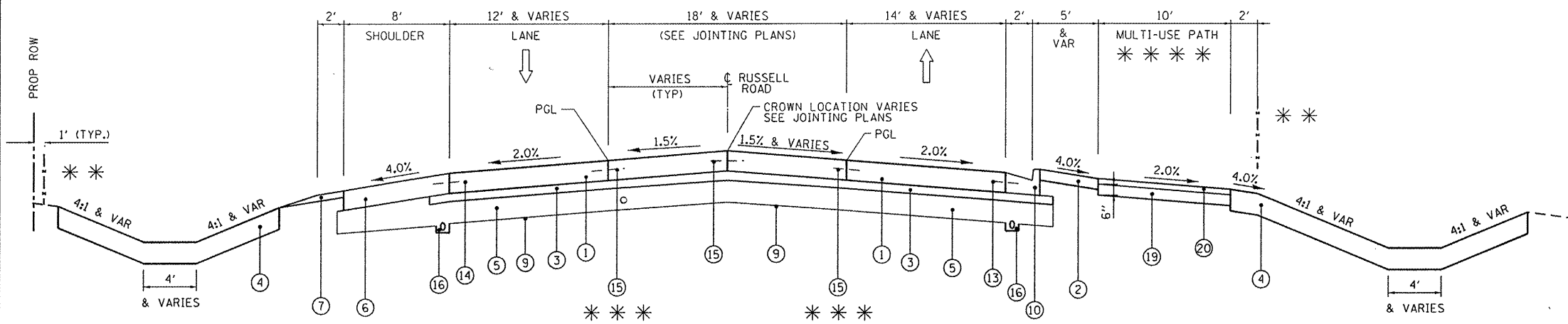
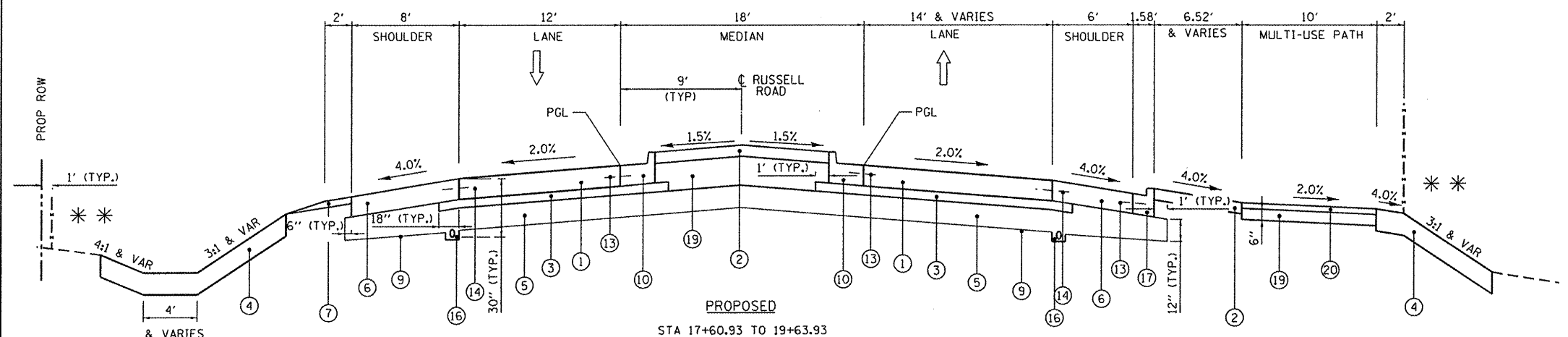
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	8
				CONTRACT NO. 60L76
ILLINOIS FED. AID PROJECT				

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PROPOSED LEGEND

- ① PORTLAND CEMENT CONCRETE PAVEMENT, 11" (JOINTED)
- ② STAMPED COLORED P.C.C. MEDIAN SURFACE 6 INCH
- ③ STABILIZED SUBBASE - HOT MIX ASPHALT, 4 1/2"
- ④ TOPSOIL EXCAVATION AND PLACEMENT (1')
- ⑤ AGGREGATE SUB-GRADE IMPROVEMENT, 12"
- ⑥ PORTLAND CEMENT CONCRETE SHOULDERS, 11"
- ⑦ AGGREGATE SHOULDER, 6", TYPE B
- ⑧ STAMPED COLORED P.C.C. MEDIAN SURFACE 13 INCH
- ⑨ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑩ COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ⑪ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
- ⑫ LONGITUDINAL KEYED CONSTRUCTION JOINT PER STD. 420001 (SHALL BE INCLUDED IN THE COST OF STAMPED COLORED P.C.C. MEDIAN SURFACE 13 INCH (SPECIAL))
- ⑬ LONGITUDINAL CONSTRUCTION JOINT. DRILL AND GROUT NO. 6 DEFORMED EPOXY TIE BARS 24" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF THE APPLICABLE COMB. CONC. CURB & GUTTER TYPE)
- ⑭ LONGITUDINAL CONSTRUCTION JOINT. DRILL AND GROUT NO. 6 DEFORMED EPOXY TIE BARS 30" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE SHOULDERS, 11")
- ⑮ LONGITUDINAL SAWED OR CONSTRUCTION JOINT. FOR LONGITUDINAL SAWED JOINT, POUR IN PLACE NO. 6 DEFORMED EPOXY TIE BARS 30" LONG AT 30" C-C. FOR LONGITUDINAL CONSTRUCTION JOINT, DRILL AND GROUT NO. 8 DEFORMED EPOXY TIE BARS 24" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE PAVEMENT, 11" (JOINTED))
- ⑯ PIPE UNDERDRAIN, 4"
- ⑰ COMBINATION CURB & GUTTER, TYPE B-6.12
- ⑱ CONCRETE MEDIAN, TYPE SM
- ⑲ AGGREGATE BASE COURSE, TYPE B
- ⑳ HOT MIX ASPHALT SURFACE COURSE MIX "D", N50 (3")
- ㉑ HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARDRAIL
- ㉒ COMBINATION CONCRETE CURB & GUTTER, TYPE M-2.12 (SPECIAL)

NOTE: ANY PLAN REFERENCE TO "STAMPED COLORED P.C.C. MEDIAN SURFACE (SPECIAL)" SHALL MEAN "STAMPED COLORED P.C.C. MEDIAN SURFACE".



\* \* ORNAMENTAL FENCE:  
 STA 18+30 TO 22+72 (LT)  
 STA 18+40 TO 19+45 (RT)  
 STA 20+28 TO 22+03 (RT)

\* \* \* STA 19+49.35 TO 24+62.68 (LT)  
 STA 19+61.74 TO 24+62.68 (RT)

\* \* \* \* MULTI-USE PATH ENDS AT STA 24+22.55

RUSSELL ROAD - STRUCTURAL PAVEMENT DESIGN BLOCK

STRUCTURAL DESIGN TRAFFIC:	YEAR 2021
PV= 2,663	SU= 380
ROAD/STREET CLASSIFICATION:	MU= 761
P= 50%	CLASS II
S= 50%	M= 50%
TRAFFIC FACTOR:	ACTUAL TF= 4.84
	MINIMUM TF= NONE
SUBGRADE SUPPORT RATING:	SSR= POOR
	AC TYPE= N/A

NOTE: LAKE COUNTY SPECIFIED THE 11" THICKNESS FOR THIS PAVEMENT AS IT IS BEING JURISDICTIONALLY TRANSFERRED TO THEM.

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PLOT DATE = 4/16/2012		DATE - 03/09/2012	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

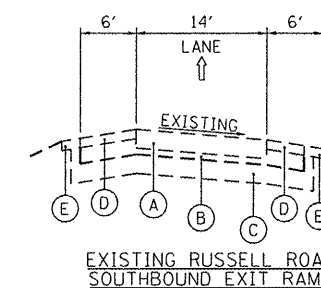
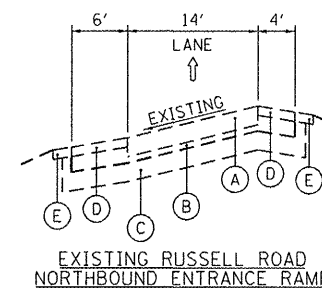
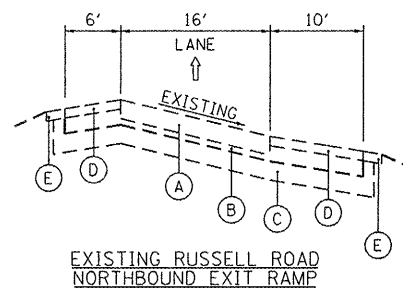
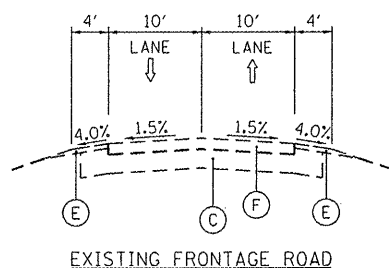
TYPICAL SECTIONS	
SCALE:	SHEET NO. 3 OF 4 SHEETS
STA.	TO STA.

F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	9
CONTRACT NO. 60L76			ILLINOIS FED. AID PROJECT	

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**EXISTING LEGEND**

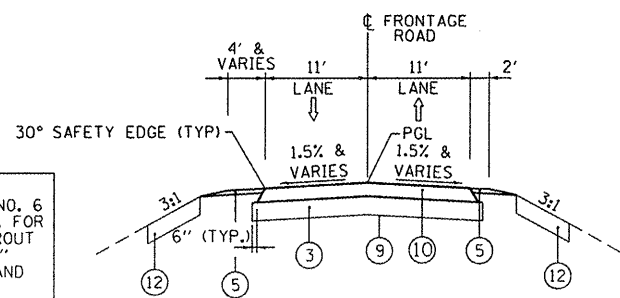
- (A) EXISTING P.C.C. PAVEMENT, 10"
- (B) EXISTING STABILIZED SUB-BASE, 4"
- (C) EXISTING AGGREGATE SUB-GRADE, 12"
- (D) EXISTING BITUMINOUS CONCRETE SHOULDER, 3"
- (E) EXISTING AGGREGATE SHOULDER (TYPICAL)
- (F) EXISTING AGGREGATE BASE COURSE WITH BITUMINOUS SURFACE TREATMENT, 7"



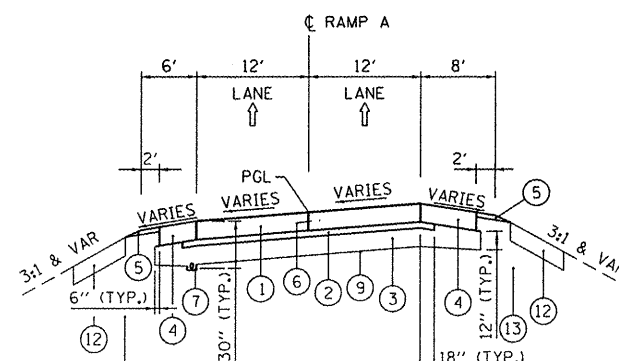
**EXISTING CONDITIONS**

**PROPOSED LEGEND**

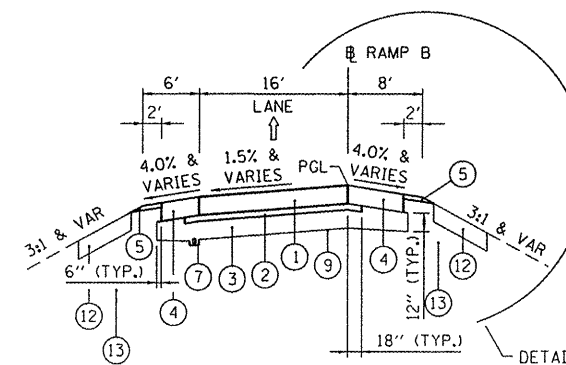
- (1) P.C.C. PAVEMENT, 12" (JOINTED)
- (2) STABILIZED SUB-BASE - HOT-MIX ASPHALT 4 1/2"
- (3) AGGREGATE SUB-GRADE IMPROVEMENT, 12"
- (4) PORTLAND CEMENT CONCRETE SHOULDERS, 12"
- (5) AGGREGATE SHOULDERS, 6" TYPE B
- (6) LONGITUDINAL SAWED OR CONSTRUCTION JOINT. FOR LONGITUDINAL SAWED JOINT, POUR IN PLACE NO. 6 DEFORMED EPOXY TIE BARS 30" LONG AT 30" C-C. FOR LONGITUDINAL CONSTRUCTION JOINT, DRILL AND GROUT NO. 8 DEFORMED EPOXY TIE BARS 24" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE PAVEMENT, 12" (JOINTED))
- (7) PIPE UNDERDRAIN, 4"
- (8) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
- (9) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (10) HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9" 2" HMA SURFACE COURSE, MIX "D", N70 - 7" HMA BINDER COURSE, IL 19.0, N70
- (11) HOT-MIX ASPHALT STABILIZATION 6' AT STEEL PLATE BEAM GUARDRAIL
- (12) TOPSOIL EXCAVATION AND PLACEMENT (1')
- (13) POROUS GRANULAR EMBANKMENT, SUBGRADE \*\*



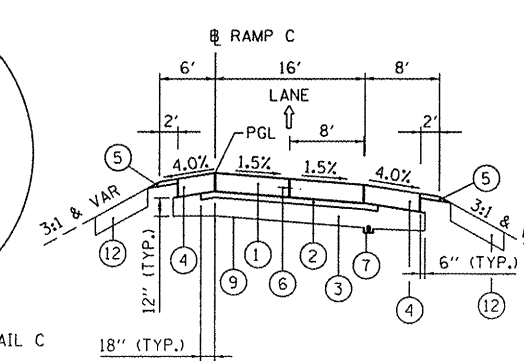
STA 71+75.50 TO STA 72+96.91  
SUPER ELEVATED RIGHT +4.6% FROM STA 72+96.91 TO 74+93.77  
STA 74+93.77 TO STA 75+41.50



STA 53+80 TO STA 55+13.25  
STA 56+94.24 TO STA 60+18.04  
STA 60+44.96 TO STA 61+47.24



STA 32+12.57 TO STA 32+57.72  
STA 34+54.08 TO STA 37+65.16



STA 54+00 TO STA 57+97.96

NOTE: PLACE TIE BARS BETWEEN THE P.C.C. PAVEMENT, 12" (JOINTED) AND THE PORTLAND CEMENT CONCRETE SHOULDERS, 12" AS FOLLOWS:

LONGITUDINAL CONSTRUCTION JOINT. DRILL AND GROUT NO. 6 DEFORMED EPOXY TIE BARS 30" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE SHOULDERS, 12")

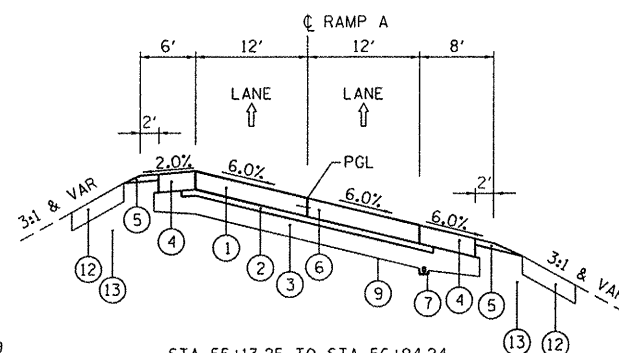
**FRONTAGE ROAD - STRUCTURAL PAVEMENT DESIGN BLOCK**

STRUCTURAL DESIGN TRAFFIC:	YEAR 2021
PV=	SU=
ROAD/STREET CLASSIFICATION:	CLASS
P= 50%	S= 50%
M= 50%	
TRAFFIC FACTOR:	ACTUAL TF= 2.3 AC TYPE= N/A
	MINIMUM TF= NONE
SUBGRADE SUPPORT RATING:	SSR= POOR

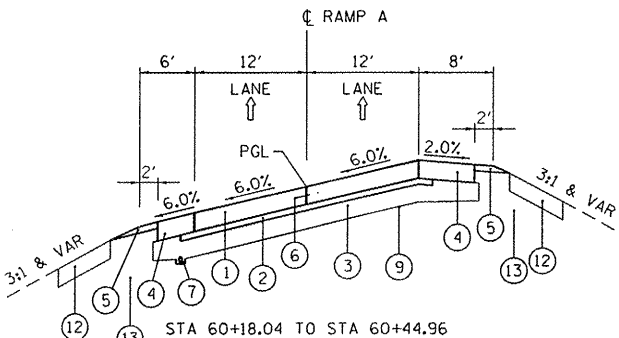
STA 75+41.50 TO STA 76+48.88  
SUPER ELEVATED LEFT -4.6% FROM STA 76+48.88 TO 78+83.09  
STA 78+83.09 TO STA 79+84.72

\* PAVEMENT TAPERS FROM 20' TO 22' FROM STA 71+75.50 TO 72+36.50

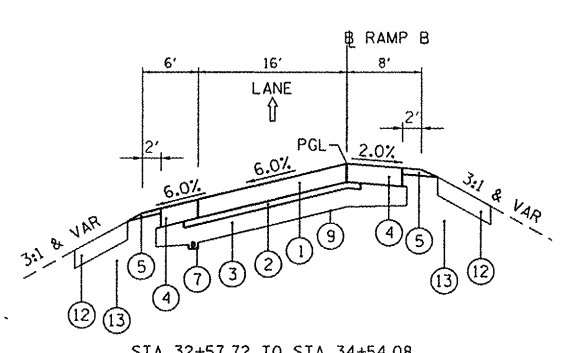
\*\* POROUS GRANULAR EMBANKMENT, SUBGRADE TO BE USED AS EMBANKMENT ON RAMPS A AND B TO MEET STAGING REQUIREMENTS.



STA 55+13.25 TO STA 56+94.24



STA 60+18.04 TO STA 60+44.96

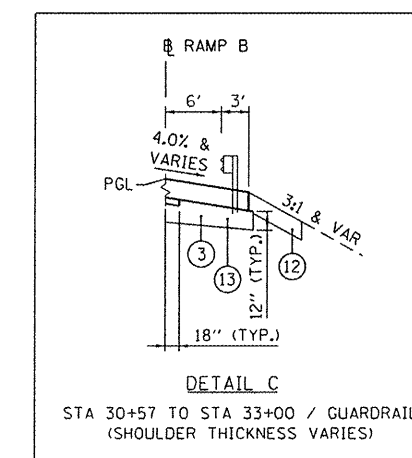


STA 32+57.72 TO STA 34+54.08

**I-94 RAMPS - STRUCTURAL PAVEMENT DESIGN BLOCK**

STRUCTURAL DESIGN TRAFFIC:	YEAR 2021
PV= 2,663	SU= 380
ROAD/STREET CLASSIFICATION:	CLASS I
P= 50%	S= 50%
M= 50%	
TRAFFIC FACTOR:	ACTUAL TF= 5.85 AC TYPE= N/A
	MINIMUM TF= 11.17
SUBGRADE SUPPORT RATING:	SSR= POOR

NOTE: THE RAMPS ON THIS PROJECT WERE DESIGNED TO MATCH THE MAINLINE PAVEMENT.



**PROPOSED CONDITIONS**

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FILE NAME = #FILES#	USER NAME = default	DESIGNED - JGR	REVISED - 4/16/12 RGR
		DRAWN - JGR	REVISED -
	PLOT SCALE = #SCALE#	CHECKED - RGR	REVISED -
	PLOT DATE = 4/16/2012	DATE - 03/09/2012	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**TYPICAL SECTIONS**

SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	10
CONTRACT NO. 60L76			ILLINOIS FED. AID PROJECT	

S:\1101\05-1400\60L76 Russell\60L76 Sheets\0160L76-4111-1010.dgn





