

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	16G-WPS0)BR	HANCOCK	41	1

*FAP ROUTE 522 (IL 96)

D-94-023-02



LOCATION OF SECTION INDICATED THUS: -

GEOTECH
ENGINEERING & TESTING, INC.

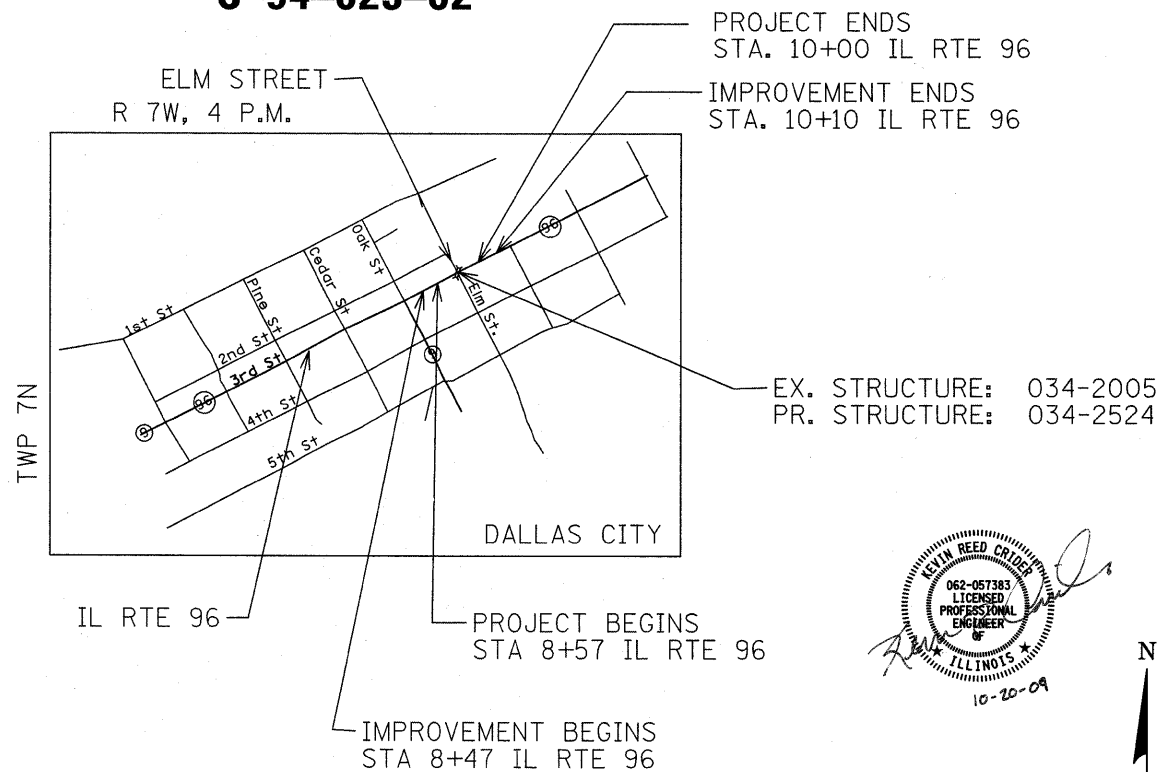
601 NORTH 4th STREET MURRAY, KENTUCKY 42071
 500 SOUTH 17th STREET PADUCAH, KENTUCKY 42003
 403 NORTH COURT STREET MARION, ILLINOIS 62959
 PHONE - 270.753.7307 PHONE - 270.443.1995 PHONE - 618.997.9190

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

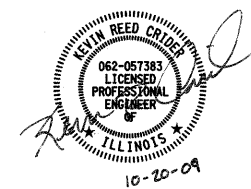
FAP ROUTE 522 (IL 96)
SECTION (6G-WPS0)BR
PROJECT NO. *ACF-0522(007)*
HANCOCK COUNTY

C-94-023-02



PROJECT ENDS
STA. 10+00 IL RTE 96
IMPROVEMENT ENDS
STA. 10+10 IL RTE 96

EX. STRUCTURE: 034-2005
PR. STRUCTURE: 034-2524



JOB DESCRIPTION

This project consists of removing a single barrel concrete arch box culvert carrying IL 96 over Thompson Creek and replacing it with a 12' X 10' double barrel cast-in-place box culvert (existing S.N. 034-2005, proposed S.N. 034-2524), new hot-mix pavement, and relocating South Elm Street.

FAP RTE 522 (IL 96):

GROSS LENGTH OF PROJECT : 163 FT. = 0.031 MILES
NET LENGTH OF PROJECT: 143 FT. = 0.027 MILES

APPROX. SCALE
1" = 1000'

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO.4

STATION EQUATION:
NONE

OMISSIONS:
NONE

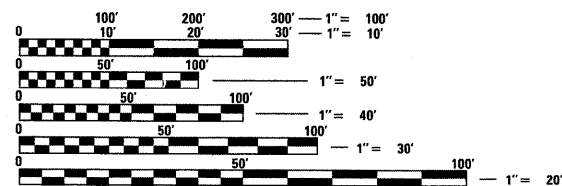
DESIGN DESIGNATION

MINOR ARTERIAL (NON-URBAN)
ADT = 2150
ADTT =175

HIGHWAY STANDARDS

000001-05	666001-01
001001-02	668001-01
280001-05	701901-01
353001-04	720001-01
424001-05	720006-02
482006-03	780001-02
542601-02	BLR23-3
602306-02	701001-02
602401-02	701006-03
602501-01	701011-02
602701-02	BLR21-8
604001-03	BLR22-6
606001-04	
630001-08	
664001-02	

TOWNSHIPS: DALLAS CITY



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

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

CONTRACT NO. 68214

CATALOG NO. 032494-00D

PROJECT ENGINEER: JIM MILLER (309) 671-3451

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 06/23/09

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Scott Stitt P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

Christine M. Reed P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

INDEX OF SHEETS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	TITLE SHEET
2	INDEX OF SHEETS
3	GENERAL NOTES; COMMITMENTS
4-5	SUMMARY OF QUANTITIES
6	TYPICAL SECTION SHEETS
7-10	SCHEDULES OF QUANTITIES
11-12	ALIGNMENT, TIES, AND BENCHMARKS
13	IL 96 PLAN AND PROFILE SHEETS
14	ELM STREET PLAN AND PROFILE SHEETS
15	LOCAL TRAFFIC DETOUR PLAN SHEET
16	TRUCK AND NON LOCAL TRAFFIC DETOUR PLAN SHEET
17	EROSION CONTROL SHEETS
18	IL RTE 96 DRAINAGE SHEETS
19	ELM STREET DRAINAGE SHEETS
20	UTILITY SHEETS
21	RIGHT-OF-WAY SHEETS
22	GEOMETRIC SHEETS
23	PAVEMENT MARKING DETAILS
24-26	STRUCTURAL SHEETS
27	DETAIL: BUTT JOINTS
28	DETAIL: PIPE CULVERT EXTENSION COLLAR
29	DETAIL: INLETS SPECIAL
30	DETAIL: OUTLET SPECIAL FOR CONCRETE CURB AND GUTTER, CURB TRANSITION, AND PERMANENT SURVEY MARKERS TY.I - TY.II
31	DETAIL: RETAINING WALL
32	DETAIL: EXCAVATION AND BACKFILL FOR BOX CULVERTS
33	DETAIL: UNSUITABLE EXCAVATION TREATMENT FOR CULVERTS
34-37	IL 96 CROSS SECTIONS
38-39	NORTH ELM STREET CROSS SECTIONS
40-41	SOUTH ELM STREET CROSS SECTIONS

FILE NAME = #FILEL#	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -		SCALE: NTS	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	522	(6G-WPSO)BR	HANCOCK	41	2
		CHECKED -	REVISED -							CONTRACT NO. 68214			
		DATE -	REVISED -						ILLINOIS FED. AID PROJECT				

GENERAL NOTES

MIXTURE REQUIREMENTS

LOCATION(S):		
MIXTURE USE(S):	SURFACE COURSE (IL RTE 96 2" - ELM ST. 1 1/2")	BINDER COURSE 2 1/4" (ELM ST.)
AC/PG:	PG 64-22	PG 64-22
RAP % (MAX):	15%	25%
DESIGN AIR VOIDS:	4.0% @ N=50	4.0% @ N=50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 9.5 OR IL 12.5	IL 19.0
FRICTION AGGREGATE:	MIXTURE D (DOLOMITE ONLY)	N.A.

105.07 UTILITIES - LOCATIONS / INFORMATION ON PLANS

The locations of existing water mains, gas mains, sewers, electric power lines, telephone lines and other utilities as shown on the plans are based on careful field investigation and the best information available, but they are not guaranteed. Unless elevations are shown — all utility locations shown on the cross sections are based on the approximate depth supplied by the utility company. It shall be the Contractor's responsibility to ascertain their exact location from the utility companies and by field inspection.

107.00 COMMITMENTS

Commitments are not to be altered without the written approval of all parties to which the commitment was made.

107.09 PROPERTY OWNER ACCESS REQUIREMENTS

Access must be maintained to all existing properties during construction per Article 107.09 unless arrangements are made in writing by the Contractor with the property owners with a copy to the Engineer for short-term closures.

108.02 CRITICAL PATH WORK SCHEDULE REQUIREMENT

The Contractor will submit to the Engineer a satisfactory progress schedule and critical path schedule which shall show the proposed sequence of work at the time of the pre-construction conference.

201.04 TREE REMOVAL

The District Four Tree Committee should be contacted and prior approval obtained for any tree removal beyond the limits/locations included in the plans.

204.00 EMBANKMENT/TOPSOIL PLACEMENT SHRINKAGE FACTOR

1. A shrinkage factor of 73.7% was used to determine the quantity of embankment for IL Route 96.
2. A shrinkage factor of 48.1% was used to determine the quantity of embankment for North Elm Street.
3. A shrinkage factor of 76.6% was used to determine the quantity of embankment for South Elm Street.

406.18 BUTT JOINT CUTTING TIME RESTRICTION

Butt joints shall not be milled more than three (3) days prior to placement of the bituminous surface course.

542.00 ORDERING LENGTH CONFIRMATION - DRAINAGE ITEMS

The Contractor shall consult with the Engineer in regard to the exact length of the box/pipe culverts, storm sewers, and/or pipe drains required prior to ordering these items.

TRANSITION PAYMENT METHOD - NEWOLD CONSTRUCTION

Three meter (3m) (10 ft.) transitions shall be used to match proposed items of work to existing items in the field unless otherwise shown. The transition shall be paid for at the contract unit price for the proposed item of work specified.

ENGINEERS FIELD OFFICE

All Engineers Field Offices shall contain one fully equipped first-aid cabinet. This item will not be paid for separately, but shall be considered as included in the pay item for ENGINEERS FIELD OFFICE.

SUB BASE GRANULAR MATERIAL

The quantity for SUB BASE GRANULAR MATERIAL shown in the plans is based on a thickness of 4" under the IL Rte 96 pavement and the mainline curb and gutter and an additional quantity above the proposed box culvert. See Detail Sheet: Excavation and Backfill For Box Culverts for a detail of the SUB BASE GRANULAR MATERIAL and the Cross Sections for the depth of the SUB BASE GRANULAR MATERIAL above the box.

COMMITMENTS

NONE AS OF 8/28/09

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, COMMITMENTS, MIXTURE REQUIREMENTS AND STANDARDS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILEL#	PLOT SCALE = #SCALE#	DRAWN -	REVISED -				522	(6G-WPS)BR	HANCOCK	41	3
	PLOT DATE = #DATE#	CHECKED -	REVISED -		SCALE: NTS	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	(ILLINOIS) FED. AID PROJECT	CONTRACT NO. 68214
		DATE -	REVISED -								

SUMMARY OF QUANTITIES

COUNTY: HANCOCK		
LOCATION: URBAN		
ROUTE: FAP 522 (IL 96)		
FUNDING: 80% FEDERAL / 20% STATE		
WORK TYPE:	ROADWAY	BRIDGE

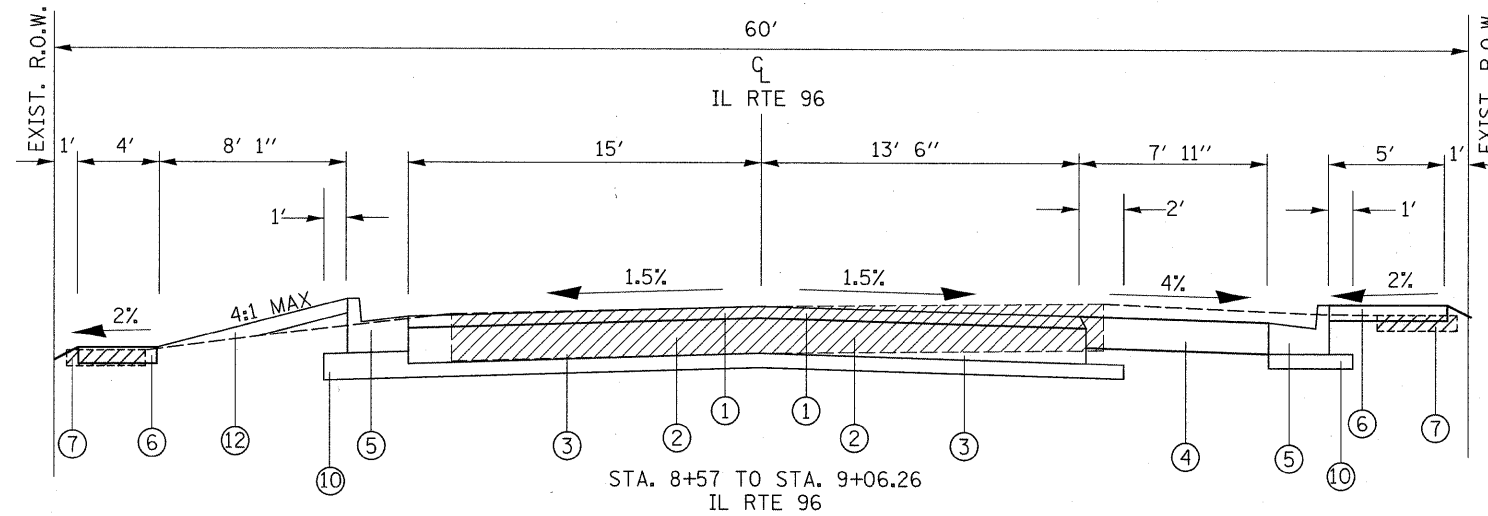
COUNTY: HANCOCK		
LOCATION: URBAN		
ROUTE: FAP 522 (IL 96)		
FUNDING: 80% FEDERAL / 20% STATE		
WORK TYPE:	ROADWAY	BRIDGE

CODE NUMBER	ITEM DESCRIPTION	UNIT	CONSTRUCTION TYPE CODE:	
			I000-2A	X028-2A
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	118	118
20200100	EARTH EXCAVATION	CU YD	968	968
20200200	ROCK EXCAVATION	CU YD	718	718
20300100	CHANNEL EXCAVATION	CU YD	256	256
20700220	POROUS GRANULAR EMBANKMENT	CU YD	300	300
20800150	TRENCH BACKFILL	CU YD	130	55 75
*25000400	NITROGEN FERTILIZER NUTRIENT	POUND	15.90	15.90
*25000500	PHOSPHOROUS FERTILIZER NUTRIENT	POUND	15.90	15.90
*25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	15.90	15.90
*25200100	SODDING	SQ YD	1307	1307
*25200200	SUPPLEMENTAL WATERING	UNIT	60	60
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100	100
28000400	PERIMETER EROSION BARRIER	FOOT	484	484
28000500	INLET AND PIPE PROTECTION	EACH	6	6
28100107	STONE RIPRAP, CLASS A4	SQ YD	129	129
28200200	FILTER FABRIC	SQ YD	129	129
31100100	SUB-BASE GRANULAR MATERIAL, TYPE A	TON	405	405
35100700	AGGREGATE BASE COURSE, TYPE A 8"	SQ YD	813	813
35300300	PORTLAND CEMENT CONCRETE BASE COURSE 8"	SQ YD	453	453
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	417	417
40600300	AGGREGATE (PRIME COAT)	TON	6	6
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	155	155
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	84	84
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	395	395
42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	23	23
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	1146	1146
44000100	PAVEMENT REMOVAL	SQ YD	440	440
44000600	SIDEWALK REMOVAL	SQ FT	1083	1083
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	65	65
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50200100	STRUCTURE EXCAVATION	CU YD	1260	1260
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	95	95
50300225	CONCRETE STRUCTURES	CU YD	20.4	20.4
50300300	PROTECTIVE COAT	SQ YD	298	298
50800105	REINFORCEMENT BARS	POUND	108740	1920 106820
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	940	940

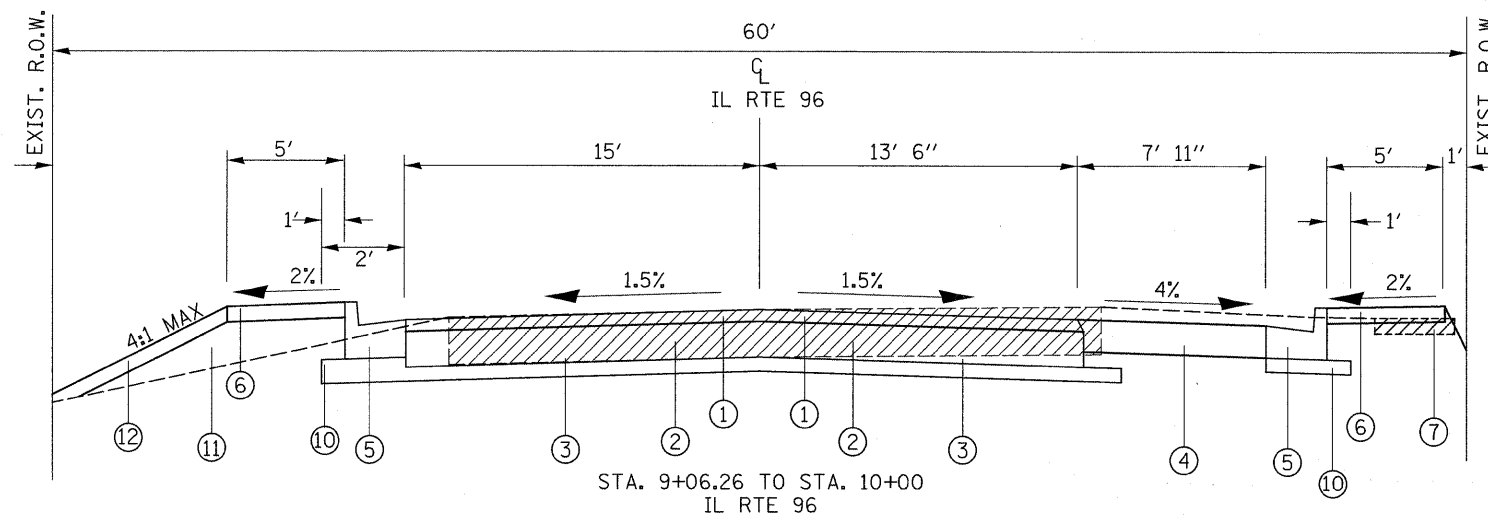
*SPECIALTY ITEM

CODE NUMBER	ITEM DESCRIPTION	UNIT	CONSTRUCTION TYPE CODE:	
			I000-2A	X028-2A
51500100	NAME PLATES	EACH	1	1
54003000	CONCRETE BOX CULVERTS	CU YD	452.2	452.2
54215973	REINFORCED CONCRETE PIPE ELBOW 18"	EACH	1	1
54248510	CONCRETE COLLAR	CU YD	0.21	0.21
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	52	52
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	124	124
55100500	STORM SEWER REMOVAL 12"	FOOT	25	25
55100900	STORM SEWER REMOVAL 18"	FOOT	62	62
*56102900	DUCTILE IRON WATER MAIN 4"	FOOT	5	5
*56103000	DUCTILE IRON WATER MAIN 6"	FOOT	179	179
*56200700	WATER SERVICE LINE 2"	FOOT	28	28
*56104800	WATER VALVES 4"	EACH	1	1
*56104900	WATER VALVES 6"	EACH	2	2
*56400100	FIRE HYDRANTS TO BE MOVED	EACH	1	1
60228110	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2
60248700	VALVE VAULTS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	3
60240215	INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID	EACH	2	2
60242900	INLETS, SPECIAL, TYPE 1	EACH	6	6
60500060	REMOVING INLETS	EACH	1	1
60500090	REMOVING INLETS TO MAINTAIN FLOW	EACH	1	1
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	4.8	4.8
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	411.5	411.5
*63000002	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6.75 POSTS	FOOT	62.5	62.5
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1
63200310	GUARDRAIL REMOVAL	FOOT	109	109
66400305	CHAIN LINK FENCE, 6'	FOOT	131	131
66410300	CHAIN LINK FENCE REMOVAL	FOOT	40	40
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	8	8
66700105	PERMANENT SURVEY MARKERS (SPECIAL)	EACH	1	1
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	1	1
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8
67100100	MOBILIZATION	L SUM	1	1
70103700	TRAFFIC CONTROL COMPLETE	L SUM	1	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	103	103
70300220	TEMPORARY PAVEMENT MARKING-LINE 4"	FOOT	1050	1050
70300240	TEMPORARY PAVEMENT MARKING-LINE 6"	FOOT	114	114

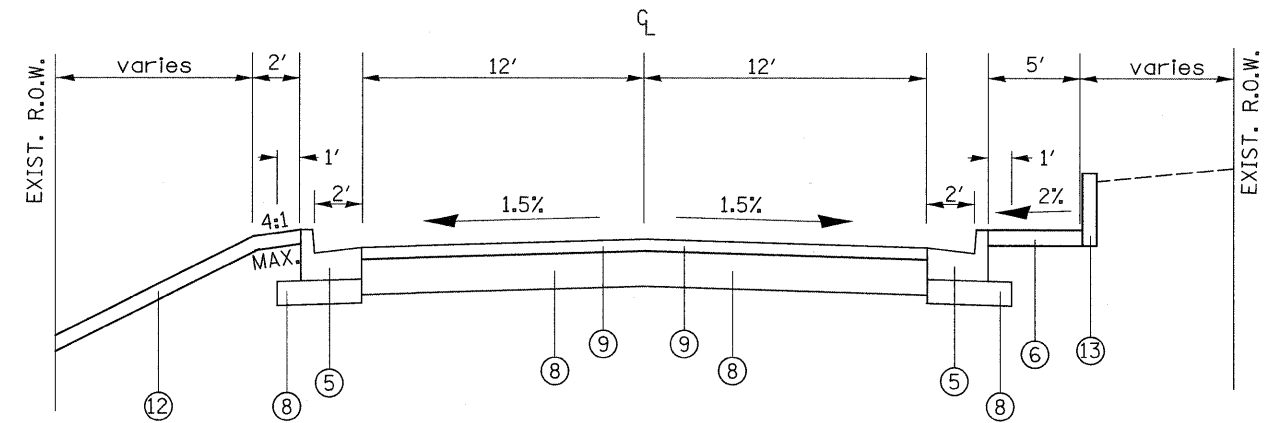
FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE. 522	SECTION (66-WPS0)BR	COUNTY HANCOCK	TOTAL SHEETS 41	SHEET NO. 4
#FILE#		DRAWN -	REVISED -		SCALE: NTS	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 68214	
		CHECKED -	REVISED -									
		DATE -	REVISED -									



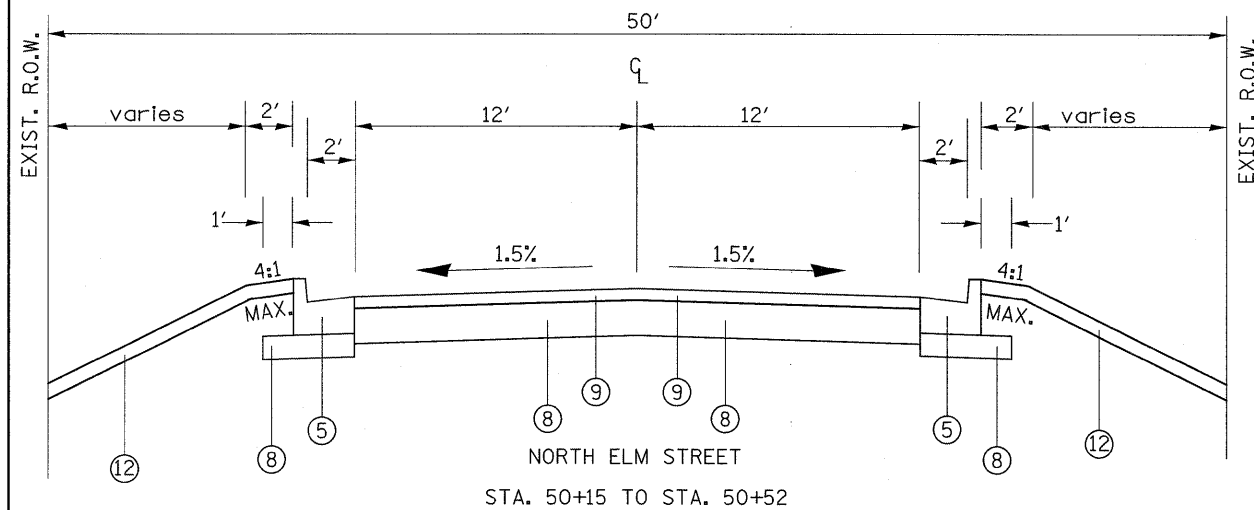
STA. 8+57 TO STA. 9+06.26
IL RTE 96



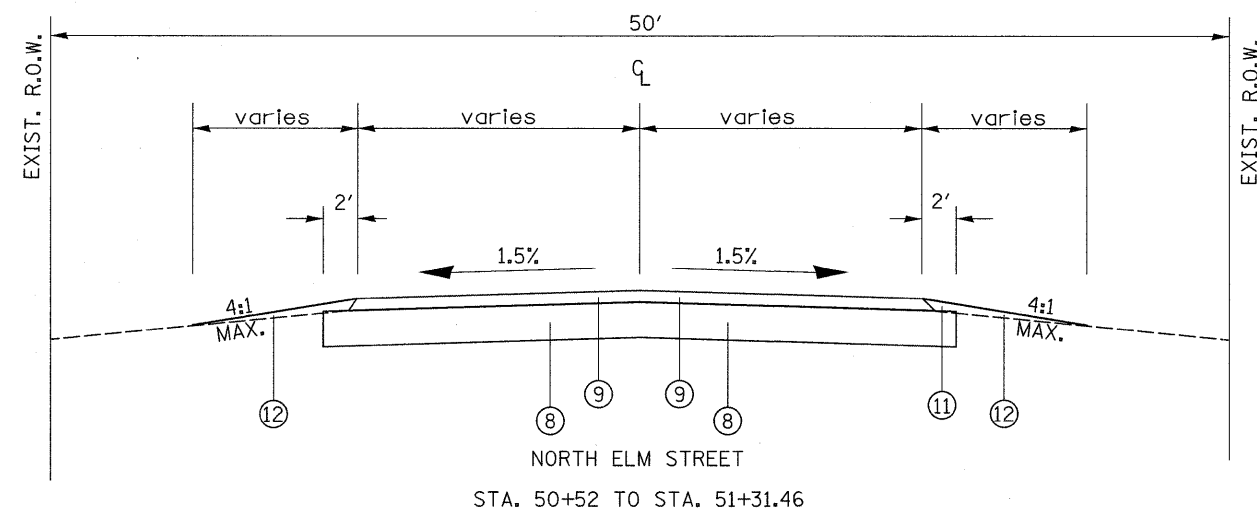
STA. 9+06.26 TO STA. 10+00
IL RTE 96



SOUTH ELM STREET RELOCATION
STA. 48+53.77 TO STA. 49+86.68



NORTH ELM STREET
STA. 50+15 TO STA. 50+52



NORTH ELM STREET
STA. 50+52 TO STA. 51+31.46

- ① PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50 2"
- ② PROPOSED PORTLAND CEMENT CONCRETE BASE COURSE, 8"
- ③ EXISTING PAVEMENT TO BE REMOVED
- ④ PROPOSED HOT-MIX ASPHALT SHOULDERS, 8"
- ⑤ PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- ⑥ PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH
- ⑦ EXISTING SIDEWALK TO BE REMOVED
- ⑧ PROPOSED AGGREGATE BASE COURSE, TYPE A 8"
- ⑨ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50 1.5" AND HOT-MIX ASPHALT BINDER COURSE, IL 19, N50 2.25" (MIN.)
- ⑩ PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE A (4")
- ⑪ PROPOSED EMBANKMENT
- ⑫ PROPOSED SODDING
- ⑬ PROPOSED CONCRETE STRUCTURES (RETAINING WALL)

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS IL RTE 96, NORTH ELM ST., SOUTH ELM ST.		F.A.P. RTE. 522	SECTION (6G-WPS0)BR	COUNTY HANCOCK	TOTAL SHEETS 41	SHEET NO. 6	
	PLOT SCALE = #SCALE#	DRAWN -	REVISED -		SCALE: NTS	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			
	PLOT DATE = #DATE#	CHECKED -	REVISED -		CONTRACT NO. 68214							
		DATE -	REVISED -									

SCHEDULES OF QUANTITIES

PAVEMENT

LOCATION STATION TO STATION	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	PCC BASE COURSE 8"	AGGREGATE *** BASE COURSE, TYPE A 8"	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	HOT-MIX ASPHALT SHOULDERS, 8"	PCC DRIVEWAY PAVEMENT, 7"	PROTECTIVE * COAT	SUB-BASE *** GRANULAR MATERIAL, TYPE A
	TON	TON	SQ. YD.	SQ. YD.	GALLON	TON	SQ. YD.	SQ. YD.	SQ. YD.	TON
FAP ROUTE 522 (IL 96)										
STA. 8+47 TO STA. 8+57	4	-	-	-	3	-	-	-	-	-
RT. STA. 8+61	-	-	-	-	-	-	-	23	23	5
RT. STA. 8+70 TO RT. STA. 9+23	-	-	-	-	-	-	45	-	-	-
STA. 8+57 TO STA. 10+00	51	-	453	-	41	-	-	-	-	377
RT. STA. 9+77 TO STA. 10+00	-	-	-	-	-	-	20	-	-	-
STA. 10+00 TO STA. 10+10	4	-	-	-	3	-	-	-	-	-
NORTH ELM STREET										
STA. 50+14.46 TO STA. 50+52	9	14	-	108	19	0.2	-	-	-	-
STA. 50+52 TO 51+31.46	15	23	-	219	18	0.3	-	-	-	-
SOUTH ELM STREET										
STA. 48+53.77 TO STA. 48+82.79	6	9	-	86	7	0.1	-	-	-	-
STA. 48+82.79 TO STA. 49+86.50	26	38	-	314	27	0.4	-	-	-	-
LOCAL TRAFFIC DETOUR PLAN										
5TH STREET & LINN STREET	280	-	-	-	299	5.0	-	-	-	-
TOTALS										
	395	84	453	727	417	6	65	23	23	382

CONCRETE CURB & GUTTER

LOCATION STATION TO STATION	COMBINATION CONCRETE CURB AND GUTTER, TYPE B - 6.24	PROTECTIVE ** COAT	CLASS SI CONCRETE (OUTLET)	AGGREGATE **** BASE COURSE, TYPE A 8"	SUB-BASE **** GRANULAR MATERIAL, TYPE A
	FOOT	SQ YD	CU YD	SQ YD	TON
FAP ROUTE 522 (IL 96)					
LT. STA. 8+60 TO STA. 8+72	-	7.2	1.2	-	1.2
LT. STA. 8+72 TO STA. 9+09.26	42.5	14.2	-	-	3.8
LT. STA. 9+33 TO STA. 9+98	70.5	23.5	-	-	6.3
LT. STA. 9+98 TO STA. 10+10	-	7.2	1.2	-	1.2
RT. STA. 8+70 TO STA. 9+38	73.5	24.5	-	-	6.6
RT. STA. 9+62 TO STA. 10+00	43.5	14.5	-	-	3.9
NORTH ELM STREET					
LT. STA. 50+29.32 TO STA. 50+40	10.5	3.5	-	4.2	-
LT. STA. 50+40 TO STA. 50+52	-	7.2	1.2	6.5	-
RT. STA. 50+30.70 TO STA. 50+40	9.5	3.2	-	3.8	-
RT. STA. 50+40 TO STA. 50+52	-	7.2	1.2	6.5	-
SOUTH ELM STREET					
LT. STA. 48+82.57 TO STA. 49+63.58	79.5	26.5	-	31.7	-
RT. STA. 48+82.79 TO STA. 49+63.49	82.0	27.3	-	32.7	-
TOTALS					
	411.5	166	4.8	85.4	23.0

- * SEE CONCRETE CURB & GUTTER SCHEDULE AND CONCRETE STRUCTURES SCHEDULE FOR ADDITIONAL QUANTITIES
- ** SEE CONCRETE STRUCTURES SCHEDULE AND PAVEMENT SCHEDULE FOR ADDITIONAL QUANTITIES
- *** SEE CONCRETE CURB & GUTTER SCHEDULE FOR ADDITIONAL QUANTITIES
- **** SEE PAVEMENT SCHEDULE FOR ADDITIONAL QUANTITIES

FILE NAME = #FILEL#	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULES OF QUANTITIES			F.A.P RTE. 522	SECTION (6G-WPSO)BR	COUNTY HANCOCK	TOTAL SHEETS 41	SHEET NO. 7
		DRAWN -	REVISED -		SCALE: NTS	SHEET NO. 1 OF 4 SHEETS	STA.	TO STA.	CONTRACT NO. 68214			
		CHECKED -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									

SCHEDULES OF QUANTITIES

UTILITY SCHEDULE

LOCATION STATION TO STATION	DUCTILE IRON WATER MAIN 4"	DUCTILE IRON WATER MAIN 6"	DUCTILE IRON SANITARY SEWER 8"	WATER SERVICE LINE 2"	WATER MAIN ENCASEMENT	SEWER MAIN ENCASEMENT
	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT
FAP ROUTE 522 (IL 96)						
STA. 10+00, 17.33' LT TO STA. 10+00, 22.33' LT		5				
STA. LT. 8+56.96 TO STA. LT. 10+00.00		174				
STA. 9+38 TO STA. 9+76, 21.5' LT.					38	
STA. LT. 9+74.25				19		
STA. RT. 9+74.45				9		
STA. 9+17.00 TO STA. 9+53.00						36
STA. 9+13.55 TO 9+65.60			51			
NORTH ELM STREET						
STA. 50+21.44 TO STA. 50+26.41, 7.2' LT.	5					
SOUTH ELM STREET						
9.14' LT. STA. 49+64.74 TO 0.58' RT. STA. 9+65.60 (IL 96)			43			
TOTALS	5	179	94	28	38	36

NOTE-SEE SHEET 20 FOR ADDITIONAL UTILITY RELOCATION QUANTITIES

SIDEWALK

LOCATION STATION TO STATION	SIDEWALK REMOVAL	PCC SIDEWALK 4"
	SQ FT	SQ FT
FAP ROUTE 522 (IL 96)		
LT. STA. 8+60.00 TO STA. 9+07.22	159	184
LT. STA. 9+35.32 TO STA. 10+46.36	-	516
RT. STA. 8+57.00 TO STA. 8+96.00	164	-
RT. STA. 8+57.04 TO STA. 9+36.00	-	402
RT. STA. 9+41.44 TO STA. 10+10.00	263	-
RT. STA. 10+00.00 TO STA. 10+10.00	-	44
SOUTH ELM STREET		
RT. STA. 48+77.59 TO STA. 49+71.00	497	
TOTALS	1083	1146

GUARDRAIL

LOCATION STATION TO STATION	STEEL PLATE BEAM GUARDRAIL, TYPE A	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	GUARDRAIL REMOVAL
	FOOT	EACH	FOOT
FAP ROUTE 522 (IL 96)			
LT. STA. 9+59.59 TO STA. 9+91.99	-	-	33
SOUTH ELM STREET			
LT. STA. 48+53.77 TO STA. 49+83.58	62.5	1	76
TOTALS	62.5	1	109

SEEDING AND FERTILIZING SCHEDULE

LOCATION STATION TO STATION	TEMPORARY EROSION CONTROL SEEDING	SODDING	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT
	POUND	SQ YD	POUND	POUND	POUND
IL 96					
RT STA 8+46 TO STA 10+10	8	97	1.2	1.2	1.2
LT STA 8+59 TO STA 10+48	12	145	2.7	2.7	2.7
NORTH ELM ST.					
RT STA 50+32 TO STA 51+31	24	387	3.6	3.6	3.6
LT STA 50+29 TO STA 51+31	8	97	1.2	1.2	1.2
SOUTH ELM ST.					
RT STA 49+63 TO STA 48+50	8	97	1.2	1.2	1.2
LT STA 49+63 TO STA 48+53	40	484	6.0	6.0	6.0
TOTALS	100	1307	15.9	15.9	15.9

SCHEDULES OF QUANTITIES

REMOVAL

LOCATION STATION TO STATION	HOT-MIX ASPHALT SURFACE REMOVAL- BUTT JOINT	PAVEMENT REMOVAL	RETAINING WALL REMOVAL
	SQ YD	SQ YD	FOOT
FAP ROUTE 522 (IL 96)			
STA. 8+47 TO STA. 8+57	33	440	
STA. 8+57 TO STA. 10+00			
STA. 10+00 TO STA. 10+10	33		
RT. STA. 9+54 TO STA. 10+00			46
SOUTH ELM STREET			
RT. STA. 48+77.59 TO STA. 49+70.89			94
LOCAL TRAFFIC DETOUR PLAN			
5TH STREET & LINN STREET	89		
TOTALS			
	155	440	140

TREE REMOVAL

LOCATION STATION TO STATION	OFFSET FROM E.P.	TREE REMOVAL (OVER 15 UNITS DIAMETER)
	FEET	UNIT
FAP ROUTE 522 (IL 96)		
RT. STA. 8+75	110	38
RT. STA. 8+76	98	36
RT. STA. 8+80	84	24
RT. STA. 8+87	65	20
TOTALS		
		118

EARTHWORK

LOCATION STATION TO STATION	EARTH EXCAVATION CU YD	FOR INFORMATION ONLY				REMARKS
		AVERAGE SHRINKAGE FACTOR %	EARTH EXCAVATION (ADJUSTED) CU YD	EMBANKMENT CU YD	EARTHWORK BALANCE WASTE (+) SHORTAGE (-) CU YD	
FAP ROUTE 522 (IL 96)						
STA. 8+57 TO STA. 10+00	366	73.7	270	399	-129	
NORTH ELM STREET						
STA. 50+15 TO STA. 51+31.46	22	48.1	11	101	-90	
SOUTH ELM STREET						
STA. 48+53.77 TO STA. 49+86.52	580	76.6	444	-	+444	
TOTAL						
	968				+225	

PERMANENT PAVEMENT MARKINGS

LOCATION STATION TO STATION	EPOXY PAVEMENT MARKING				
	LINE 4"			LINE 6"	LINE 24"
	SOLID WHITE FOOT	SOLID YELLOW FOOT	SKIP DASH FOOT	SOLID WHITE FOOT	SOLID WHITE FOOT
FAP ROUTE 522 (IL 96)					
STA. 8+47 TO STA. 10+10			40		
LT. STA. 8+47 TO STA. 9+09	71				
LT. STA. 9+33 TO STA. 10+10	86				
RT. STA. 8+47 TO STA. 9+38	104				
RT. STA. 9+62 TO STA. 10+10	61				
NORTH ELM STREET					
STA. 50+29 TO STA. 51+31			30		
LT. STA. 50+29					13
LT. STA. 50+30 TO STA. 51+31	101				
RT. STA. 50+29 TO STA. 51+31	102				
STA. 9+08.25 (25.58' LT) TO 9+36.13 (21.21' LT) (IL 96)				54	
SOUTH ELM STREET					
STA. 48+53.77 TO STA. 49+71		235			
LT. STA. 48+53.77 TO STA. 49+64	110				
RT. STA. 48+53.77 TO STA. 49+64	110				
RT. STA. 49+71					14
STA. 9+34.08 (23.60' RT) TO 9+65.91 (23.60' RT) (IL 96)				60	
SUBTOTALS					
	745	235	70	114	27
TOTALS					
		1050		114	27

ROW MARKERS

LOCATION STATION TO STATION	OFFSET FROM C	FURNISHING AND ERECTING RIGHT OF WAY MARKERS
	FEET	EACH
FAP ROUTE 522 (IL 96)		
RT. STA. 8+73.09	30	1
RT. STA. 8+73.09	100	1
RT. STA. 8+98.09	100	1
RT. STA. 9+48.09	150	1
LT. STA. 9+48.09	70	1
RT. STA. 9+98.09	35	1
LT. STA. 10+28.09	30	1
LT. STA. 10+28.09	70	1
TOTALS		
		8

SCHEDULES OF QUANTITIES

STORM SEWERS AND INLETS

FENCE

LOCATION STATION TO STATION	CHAIN LINK FENCE 6'	CHAIN LINK FENCE REMOVAL
	FOOT	FOOT
FAP ROUTE 522 (IL 96)		
LT. STA. 9+41 TO STA. 10+10	69	-
RT. STA. 8+70 TO STA. 9+29	62	-
RT. STA. 8+83.92 TO STA. 9+14.34	-	40
TOTALS	131	40

LOCATION STATION TO STATION	STORM SEWER REMOVAL		STORM SEWERS, CLASS A, TYPE 1	STORM SEWERS, CLASS A, TYPE 2	REINFORCED CONCRETE PIPE ELBOW	CONCRETE COLLAR	TRENCH BACKFILL	INLETS, TYPE B TYPE 1, FRAME, CLOSED LID	INLETS SPECIAL TYPE 1	REMOVING INLETS TO MAINTAIN FLOW	REMOVING INLETS
	12" FOOT	18" FOOT	18" FOOT	12" FOOT	18" EACH	CU YD	CU YD	EACH	EACH	EACH	EACH
FAP ROUTE 522 (IL 96)											
LT. STA. 9+76.69 TO STA. 9+95.50				22							
LT. STA. 9+91.10					1	0.21					
LT. STA. 9+95.50									1		
RT. STA. 8+79				3			0.90	1	1	1	
RT. STA. 8+79 TO STA. 9+07	25										
RT. STA. 8+79 TO STA. 8+99.2				18			12.24				
RT. STA. 9+33.2 TO STA. 9+87		62	52				13.96				
RT. STA. 9+44.90											1
RT. STA. 9+87								1			
NORTH ELM STREET											
STA. 50+34				28			5.14				
LT. STA. 50+34									1		
RT. STA. 50+34				10			6.48		1		
SOUTH ELM STREET											
STA. 49+56				28			5.14				
LT. STA. 49+56				15			5.60		1		
RT. STA. 49+55.60									1		
TOTALS	25	62	52	124	1	0.21	54.88	2	6	1	1

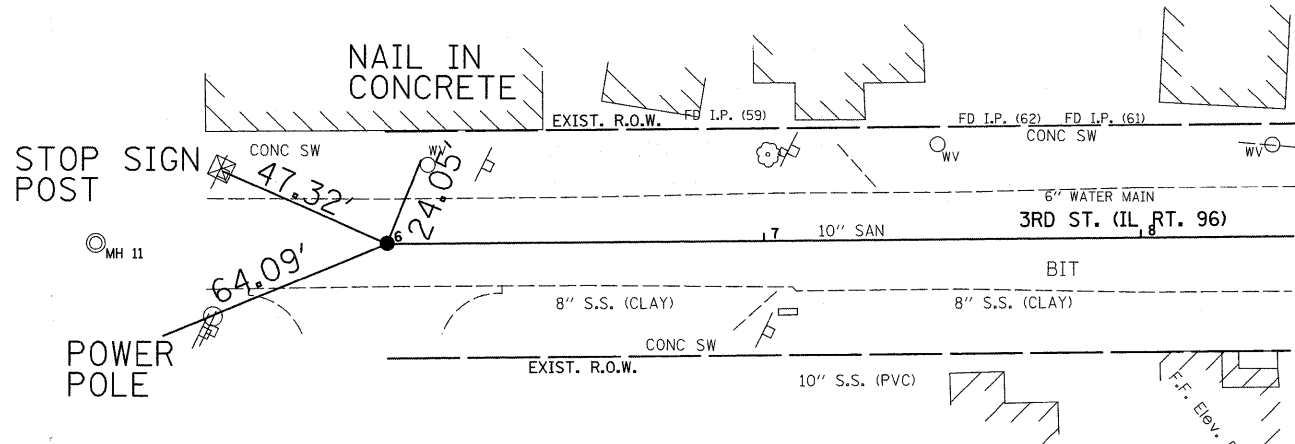
EROSION CONTROL

LOCATION STATION TO STATION	INLET AND PIPE PROTECTION	PERIMETER EROSION BARRIER
	EACH	FOOT
IL 96		
STA LT 8+59.9 TO STA LT 50+52.4 (N. ELM)		64
STA RT 8+79	1	
STA RT 8+84 TO STA LT 48+73 (S. ELM)		92
STA LT 9+79 TO STA RT 51+31.6 (N. ELM)		114
STA LT 9+83.7 TO STA LT 10+09.7		
STA RT 9+95.5	1	
STA LT 10+00 TO STA LT 10+37		44
NORTH ELM		
STA RT 50+34	1	
STA LT 50+34	1	
STA RT 50+59.1 TO STA RT 50+80.8		
SOUTH ELM		
STA LT 48+54 TO STA LT 49+00		49
STA RT 48+82.5 TO STA RT 10+00 (IL 96)		121
STA LT 49+23.4 TO STA LT 49+39.7		
STA RT 49+56	1	
STA LT 49+56	1	
TOTALS	6	484

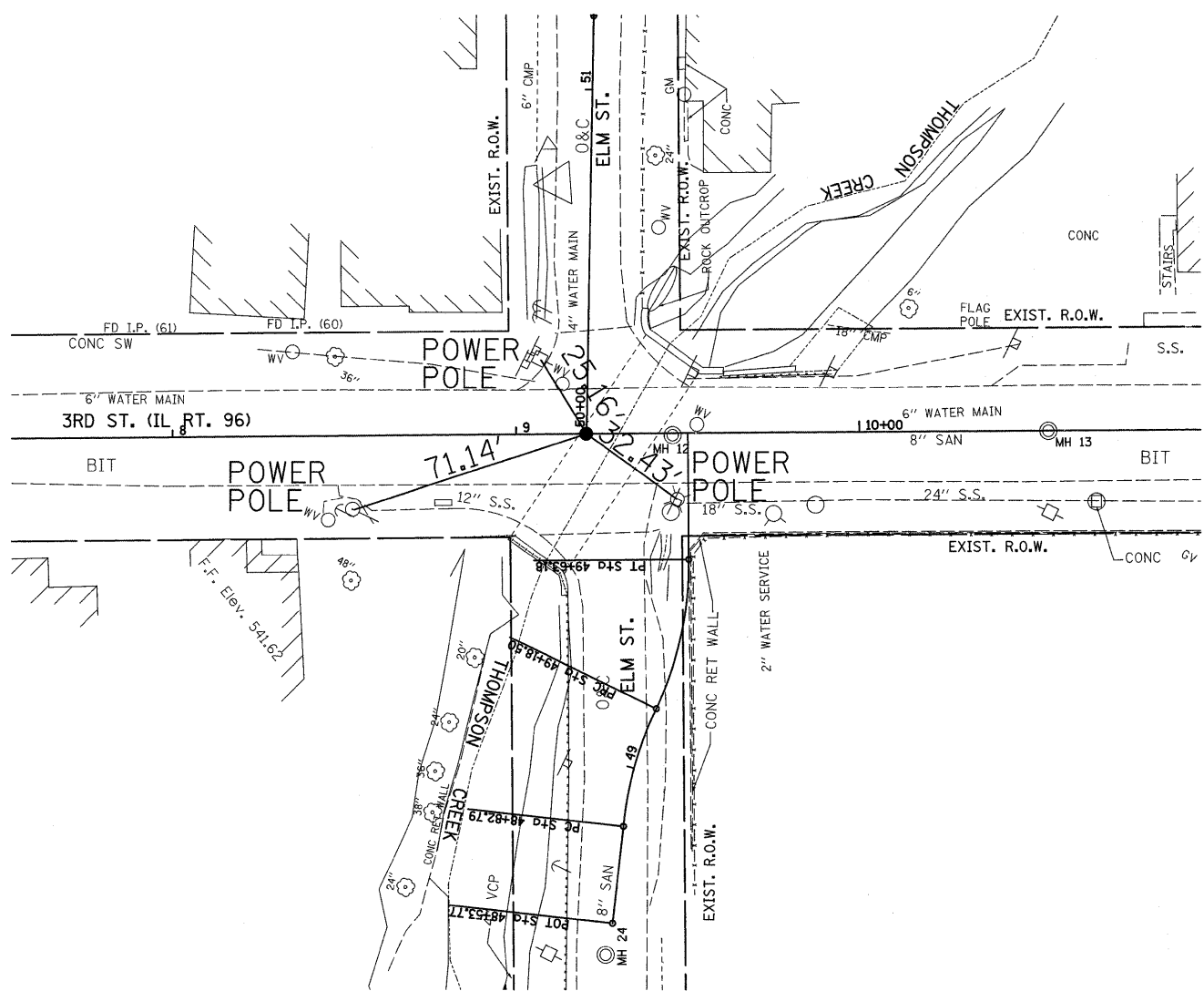
CONCRETE STRUCTURES

LOCATION STATION TO STATION	REINFORCEMENT BARS	CONCRETE STRUCTURES	PROTECTIVE * COAT
	POUND	CU YD	SQ YD
RT. STA. 48+77.65 (SOUTH ELM) TO STA. 10+00 (FAP 522 IL 96)	1920	20.4	109
TOTALS	1920	20.4	109

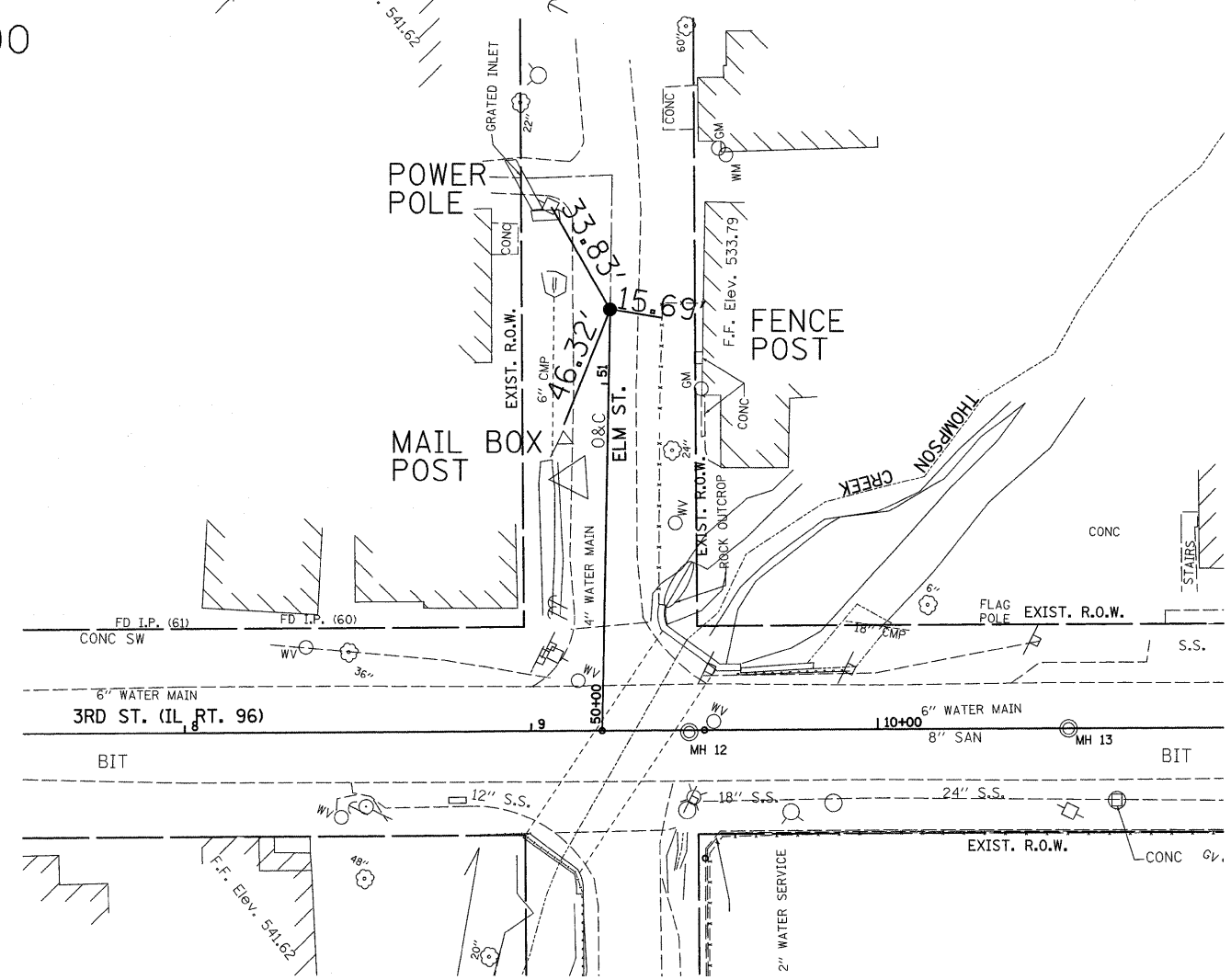
* SEE PAVEMENT SCHEDULE AND CONCRETE CURB & GUTTER SCHEDULE FOR ADDITIONAL QUANTITIES



STA. 6+00

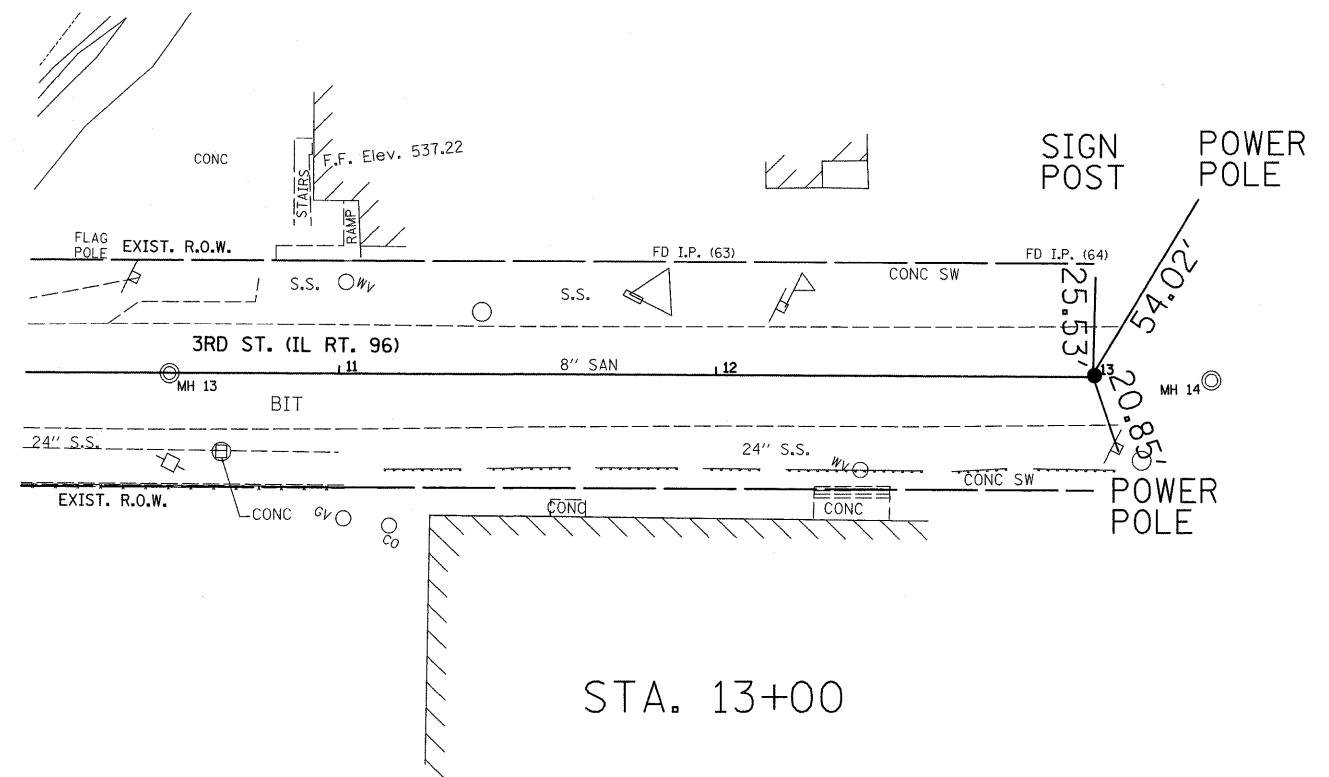
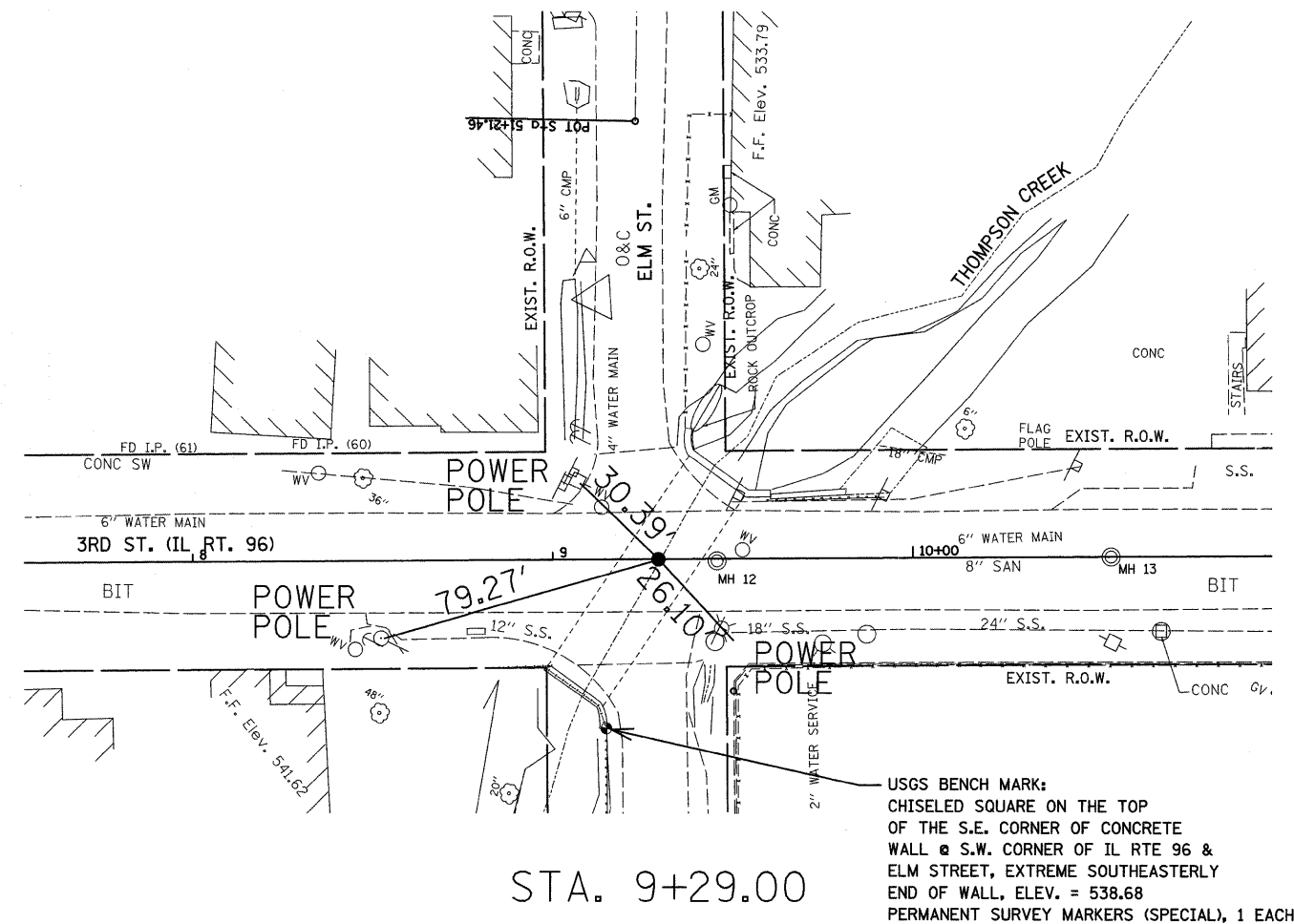
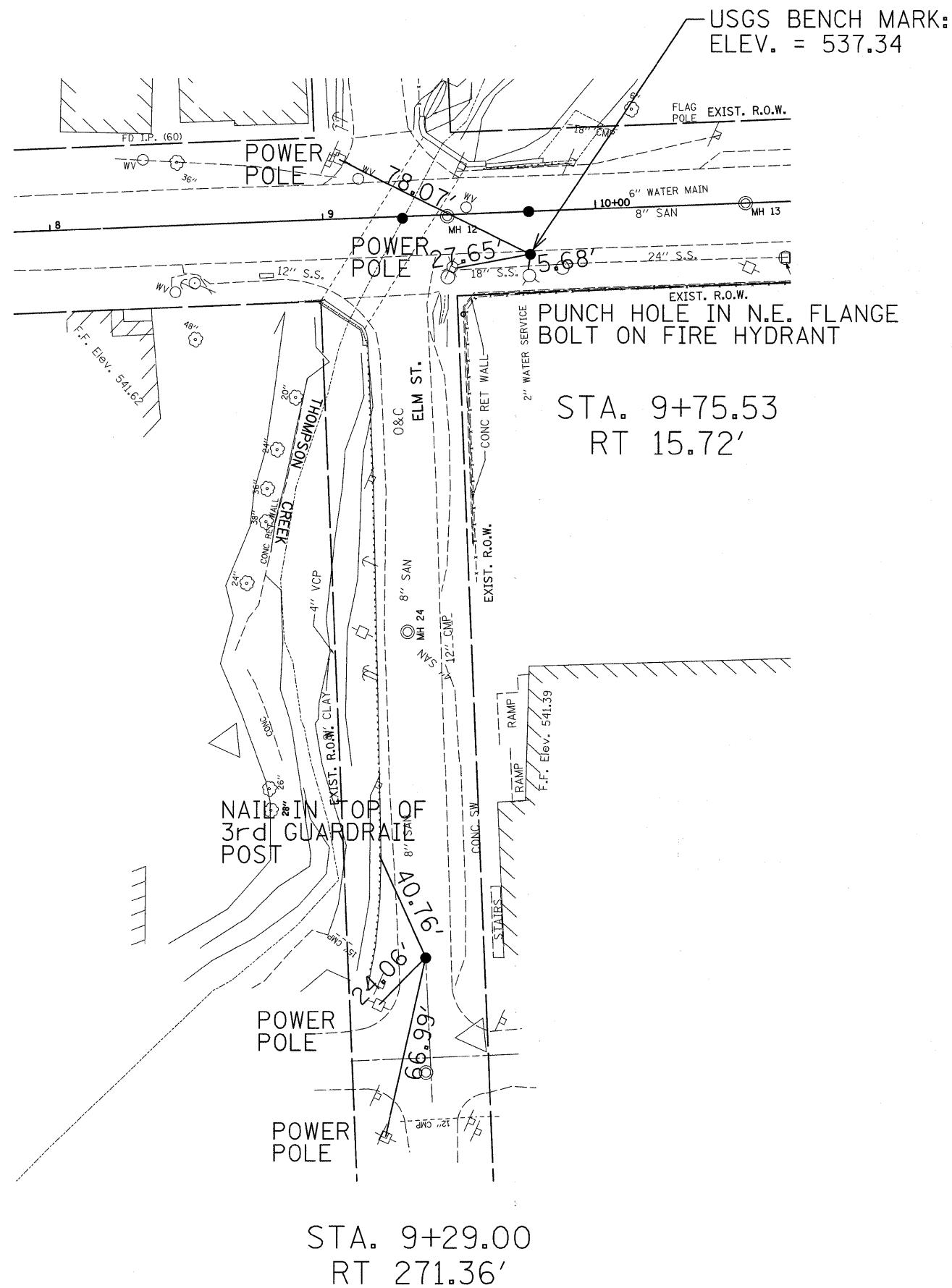


STA. 9+20.50



STA. 9+20.50
LT. 121.46'

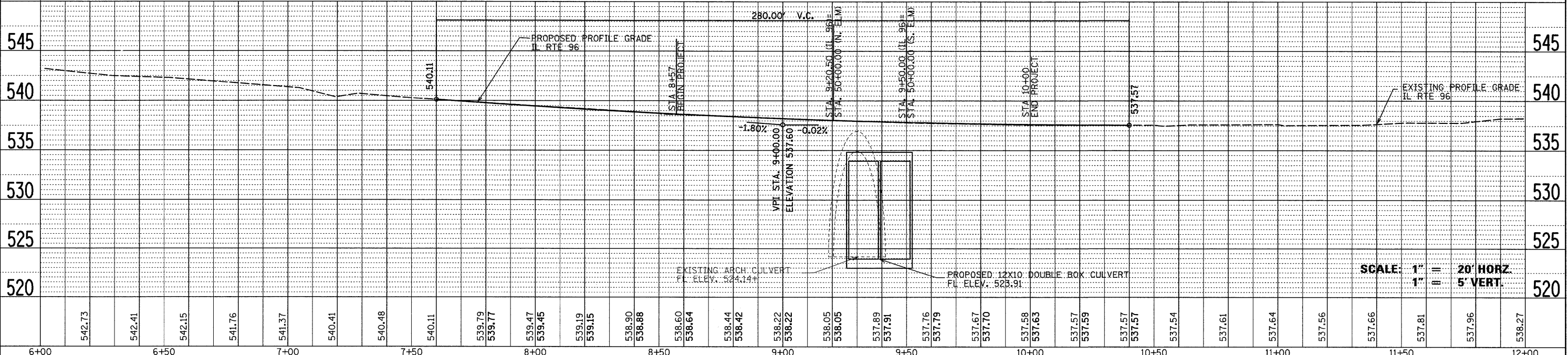
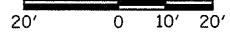
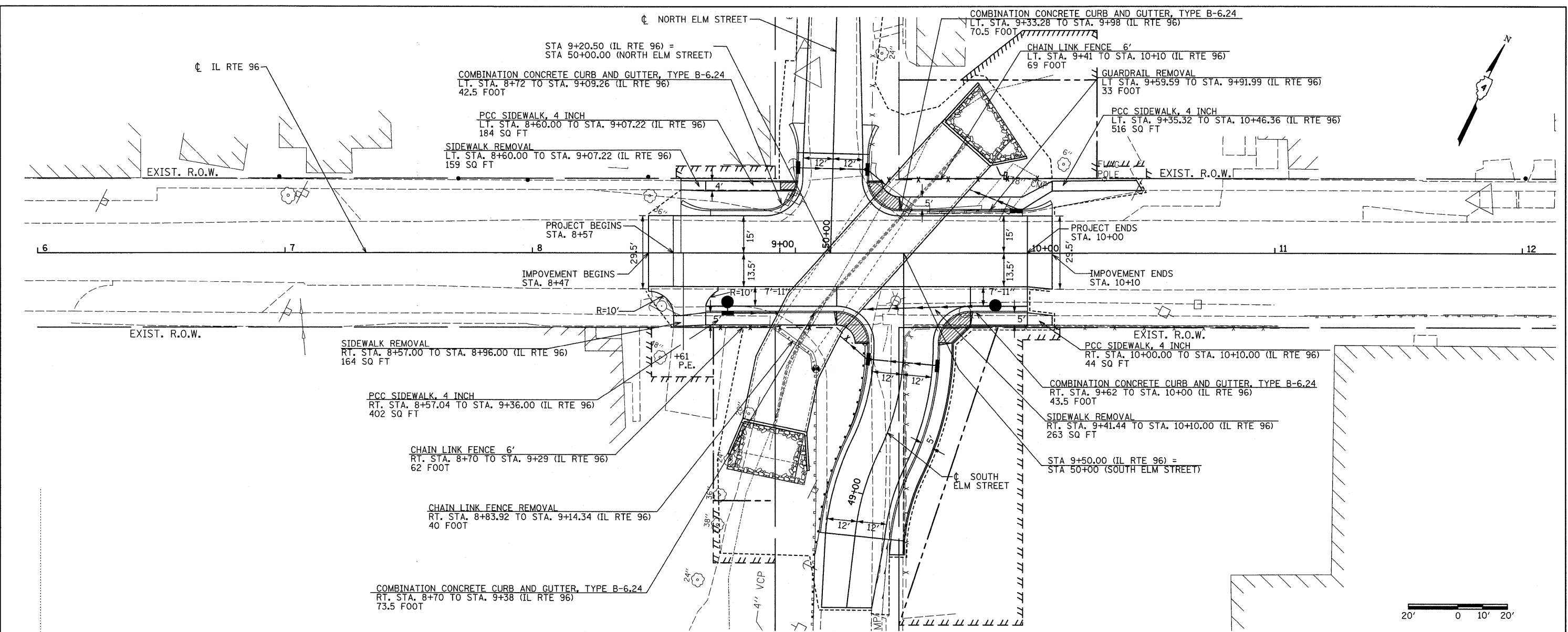
FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TIE POINTS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#	DRAWN -	REVISED -		SCALE: N.T.S.	SHEET NO. 1 OF 2 SHEETS	522	(6G-WPSO)BR	HANCOCK	41	11
	PLOT DATE = #DATE#	CHECKED -	REVISED -		STA.	TO STA.	CONTRACT NO. 68214				
		DATE -	REVISED -				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TIE POINTS		F.A.P. RTE. 522	SECTION (6G-WP50)BR	COUNTY HANCOCK	TOTAL SHEETS 41	SHEET NO. 12
	PLOT SCALE = #SCALE#	DRAWN -	REVISED -		SCALE: N.T.S.	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	CONTRACT NO. 68214		
	PLOT DATE = #DATE#	CHECKED -	REVISED -						FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT		
		DATE -	REVISED -								

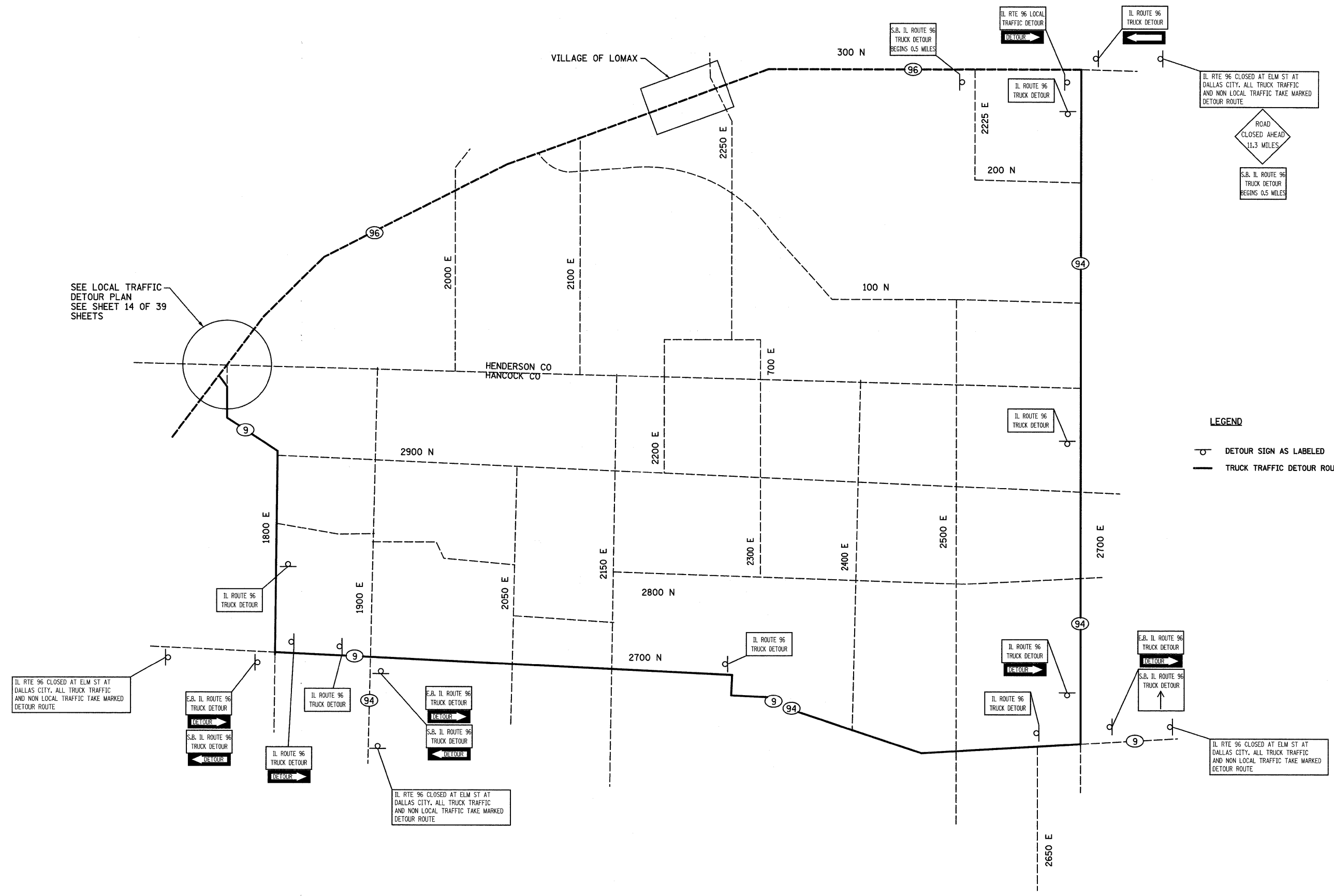
DATE	
BY	
REVIEWED	
PLANNED	
NOTED	
NO.	

DATE	
BY	
REVIEWED	
PLANNED	
NOTED	
NO.	



SCALE: 1" = 20' HORIZ.
1" = 5' VERT.

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RT 96 PLAN PROFILE				F.A.P. RTE. 522	SECTION (6G-WPS)BR	COUNTY HANCOCK	TOTAL SHEETS 41	SHEET NO. 13
#FILEL#	PLOT SCALE = #SCALE#	DRAWN -	REVISED -		SCALE: 1"=20 SHEET NO. OF SHEETS STA. TO STA.				CONTRACT NO. 68214				
	PLOT DATE = #DATE#	CHECKED -	REVISED -						FED. ROAD DIST. NO. (ILLINOIS) FED. AID PROJECT				
		DATE -	REVISED -										

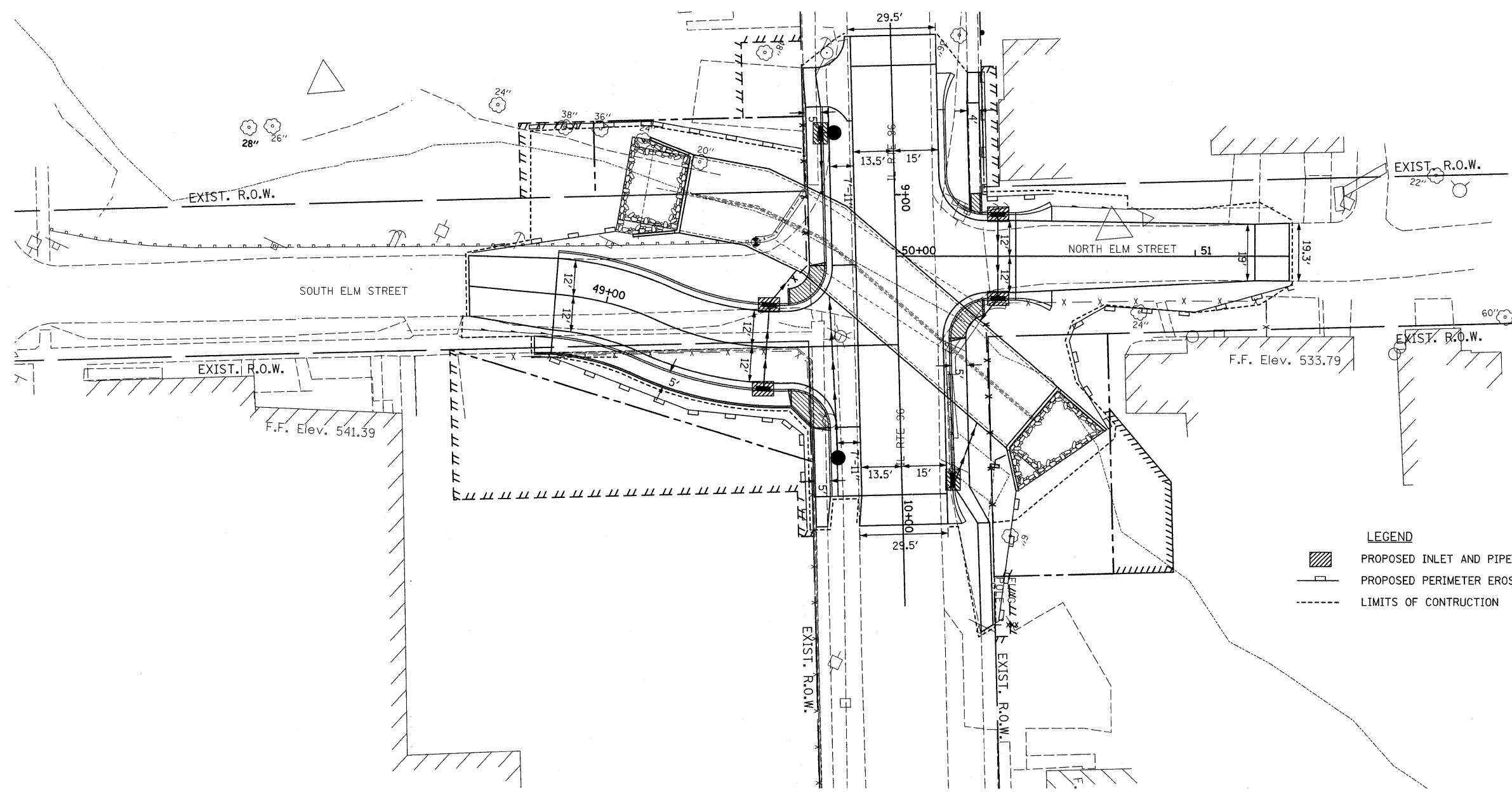
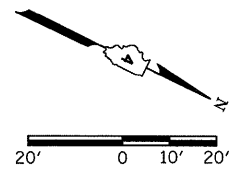


LEGEND

○ DETOUR SIGN AS LABELED

— TRUCK TRAFFIC DETOUR ROUTE

FILE NAME = #FILEL#	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRUCK AND NON LOCAL TRAFFIC DETOUR PLAN			F.A.P. RTE. 522	SECTION (6G-WPSO)BR	COUNTY HANCOCK	TOTAL SHEETS 41	SHEET NO. 16
	PLOT SCALE = #SCALE#	DRAWN -	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	
	PLOT DATE = #DATE#	CHECKED -	REVISED -									
		DATE -	REVISED -									

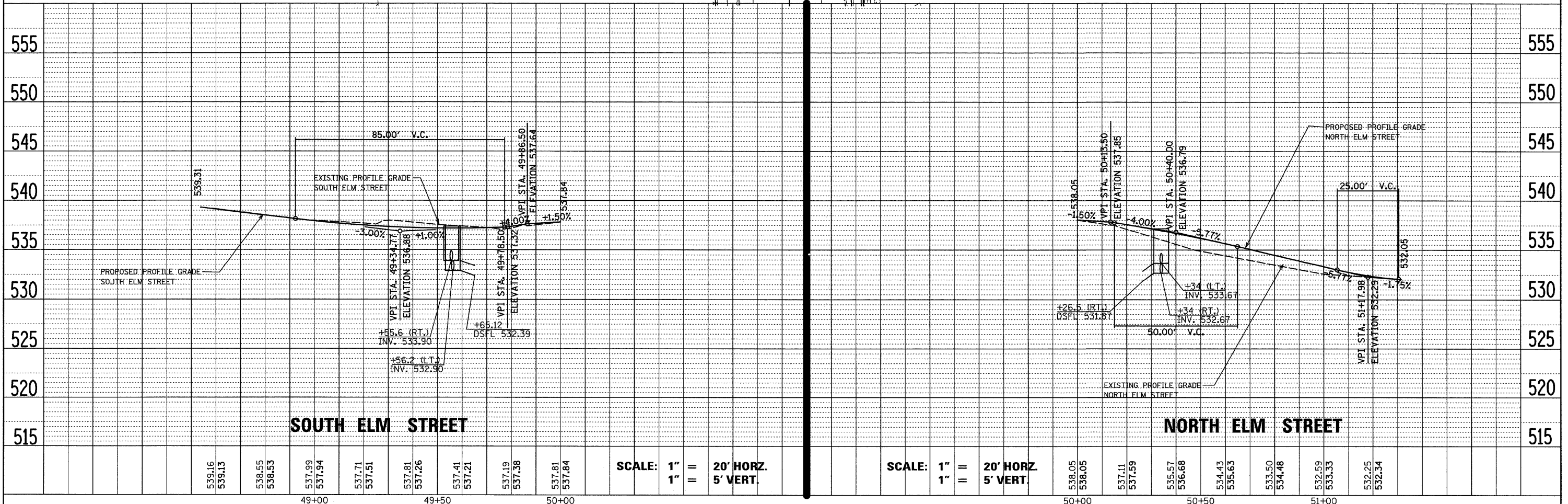
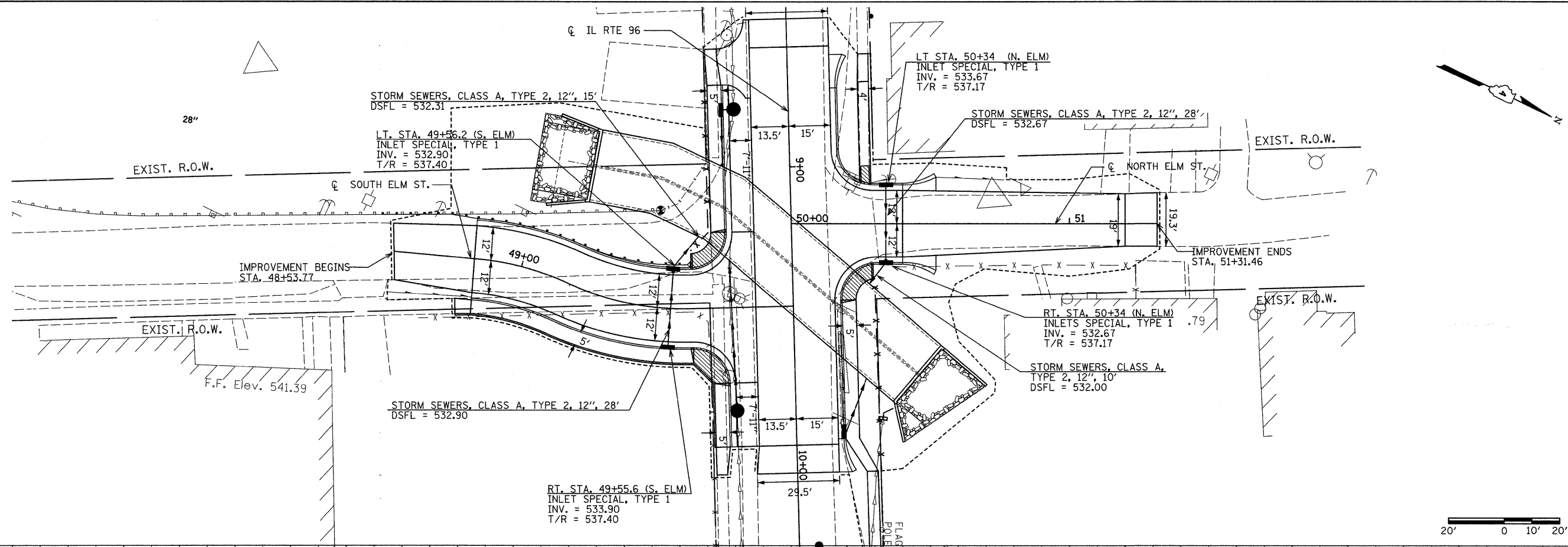


- LEGEND**
- PROPOSED INLET AND PIPE PROTECTION
 - PROPOSED PERIMETER EROSION BARRIER
 - LIMITS OF CONSTRUCTION

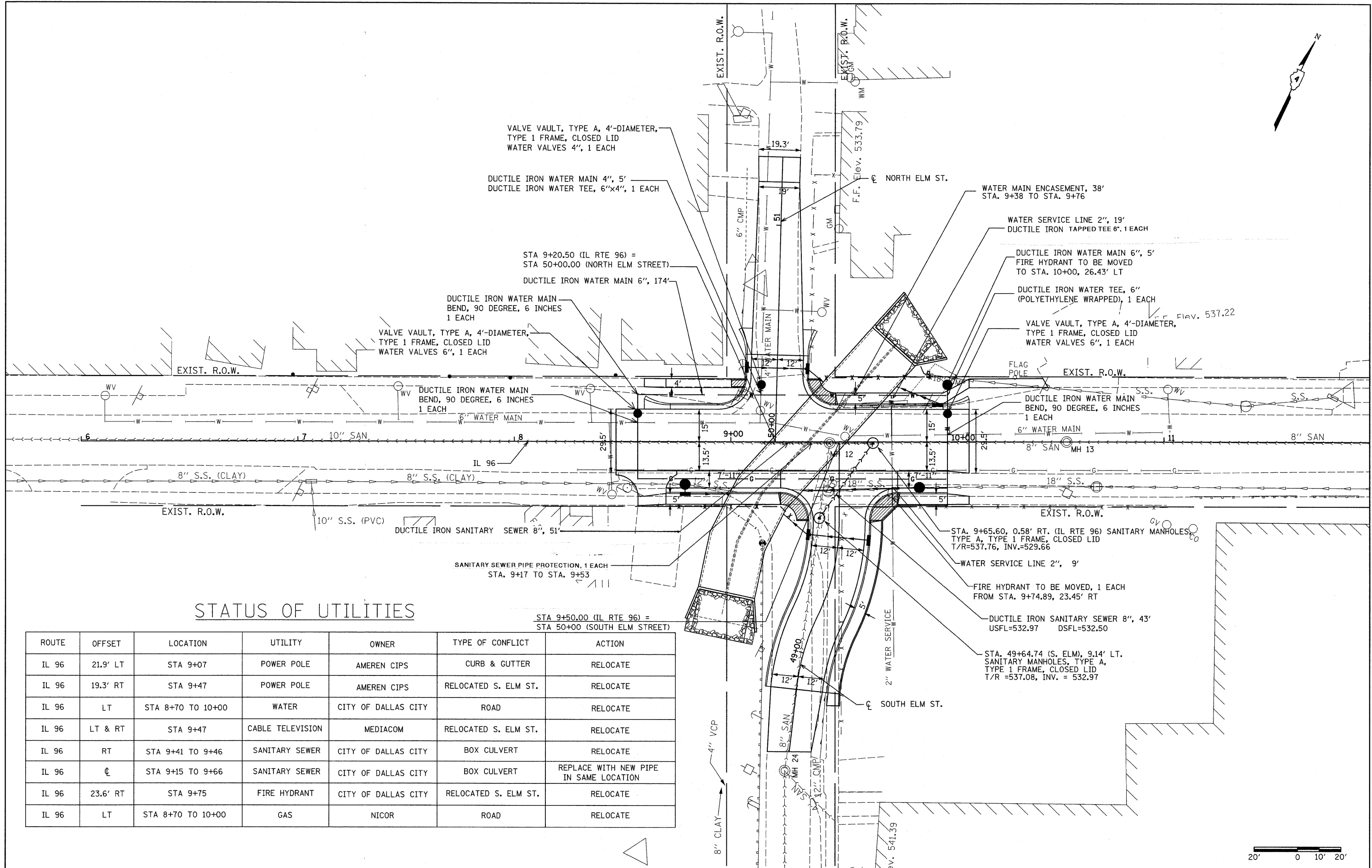
FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = #SCALE#	DRAWN -	REVISED -		SCALE: 1"=20'	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	522	(6G-WPSO)BR	HANCOCK	41	17
	PLOT DATE = #DATE#	DATE -	REVISED -						FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 68214		

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHKD	
	NO.	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHKD	
	NO.	
	CADD FILE NAME	



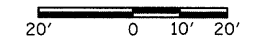
FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELM STREET DRAINAGE			F.A.P. RT#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN -	REVISED -		522	(6G-WP50)BR	HANCOCK	41	19			
PLOT SCALE = #SCALE#		CHECKED -	REVISED -		SCALE: 1"=20'			CONTRACT NO. 68214				
PLOT DATE = #DATE#		DATE -	REVISED -		SHEET NO. OF SHEETS STA. TO STA.			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

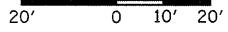
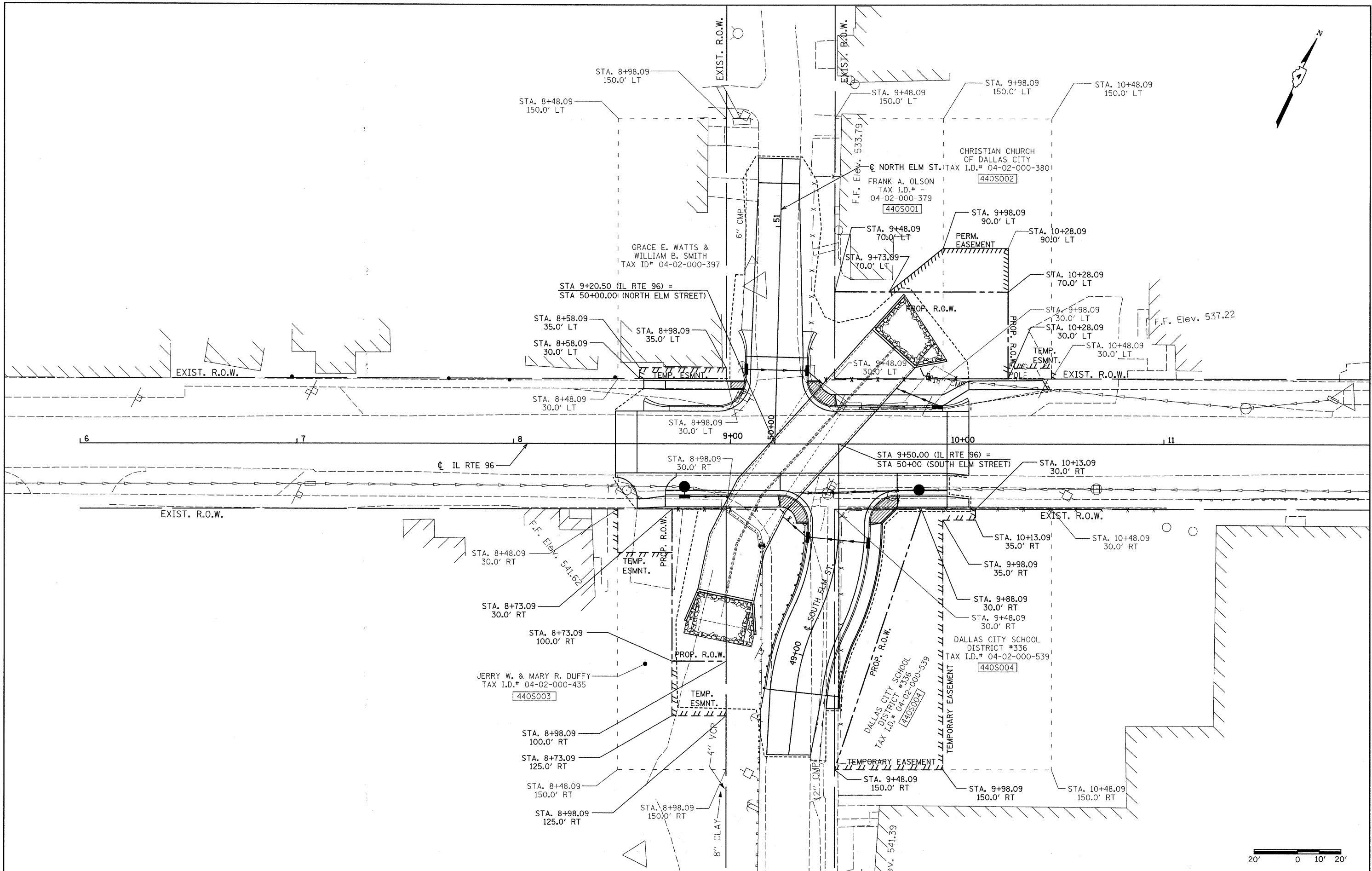


STATUS OF UTILITIES

ROUTE	OFFSET	LOCATION	UTILITY	OWNER	TYPE OF CONFLICT	ACTION
IL 96	21.9' LT	STA 9+07	POWER POLE	AMEREN CIPS	CURB & GUTTER	RELOCATE
IL 96	19.3' RT	STA 9+47	POWER POLE	AMEREN CIPS	RELOCATED S. ELM ST.	RELOCATE
IL 96	LT	STA 8+70 TO 10+00	WATER	CITY OF DALLAS CITY	ROAD	RELOCATE
IL 96	LT & RT	STA 9+47	CABLE TELEVISION	MEDIACOM	RELOCATED S. ELM ST.	RELOCATE
IL 96	RT	STA 9+41 TO 9+46	SANITARY SEWER	CITY OF DALLAS CITY	BOX CULVERT	RELOCATE
IL 96	CL	STA 9+15 TO 9+66	SANITARY SEWER	CITY OF DALLAS CITY	BOX CULVERT	REPLACE WITH NEW PIPE IN SAME LOCATION
IL 96	23.6' RT	STA 9+75	FIRE HYDRANT	CITY OF DALLAS CITY	RELOCATED S. ELM ST.	RELOCATE
IL 96	LT	STA 8+70 TO 10+00	GAS	NICOR	ROAD	RELOCATE

STA 9+50.00 (IL RTE 96) =
STA 50+00 (SOUTH ELM STREET)





FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -
*FILE#		DRAWN -	REVISED -
	PLOT SCALE = *SCALE*	CHECKED -	REVISED -
	PLOT DATE = *DATE*	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

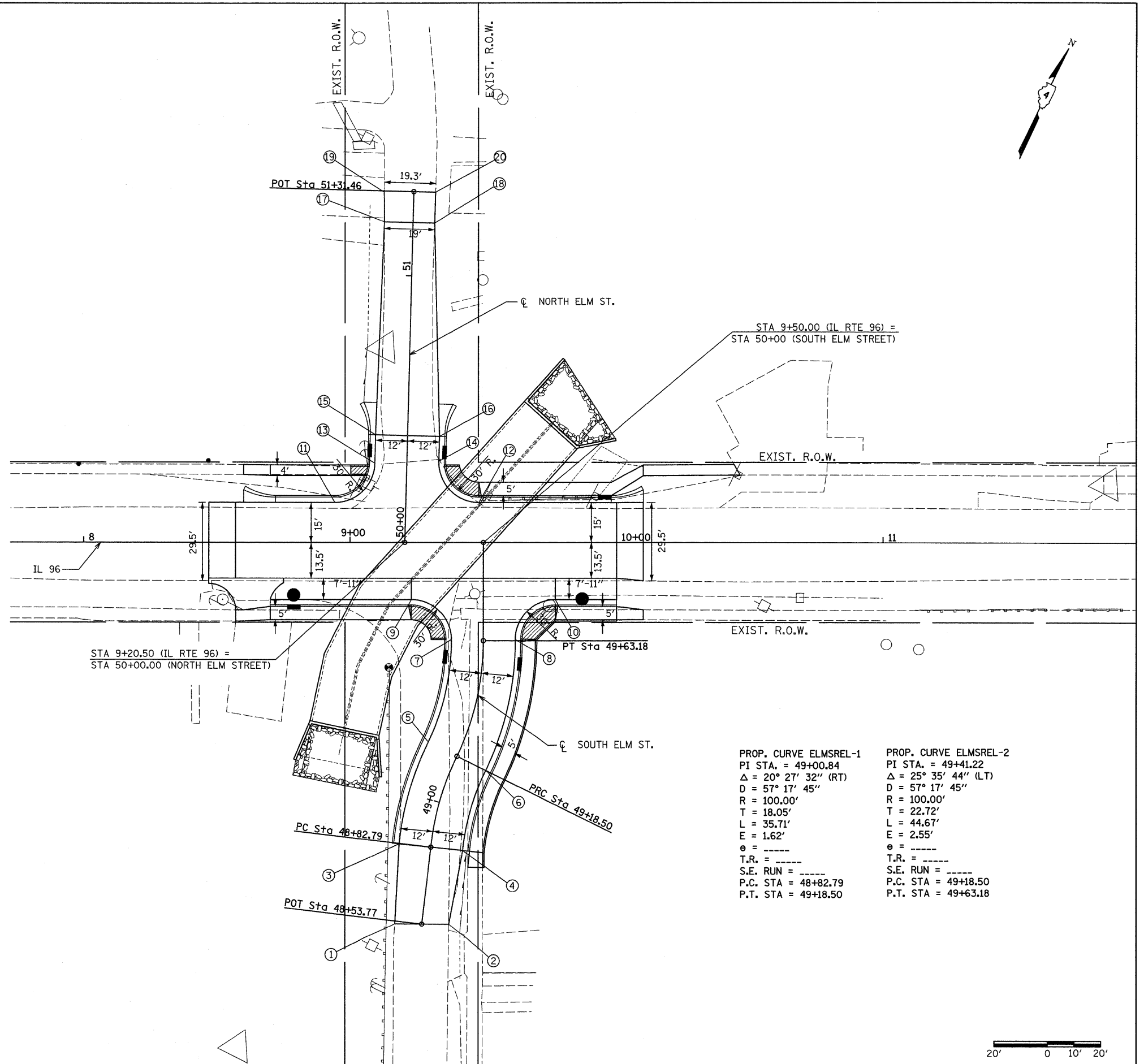
RIGHT OF WAY SHEETS

SCALE: 1"=20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	(6G-WP50)BR	HANCOCK	41	21
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

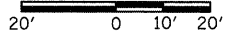


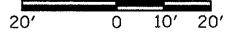
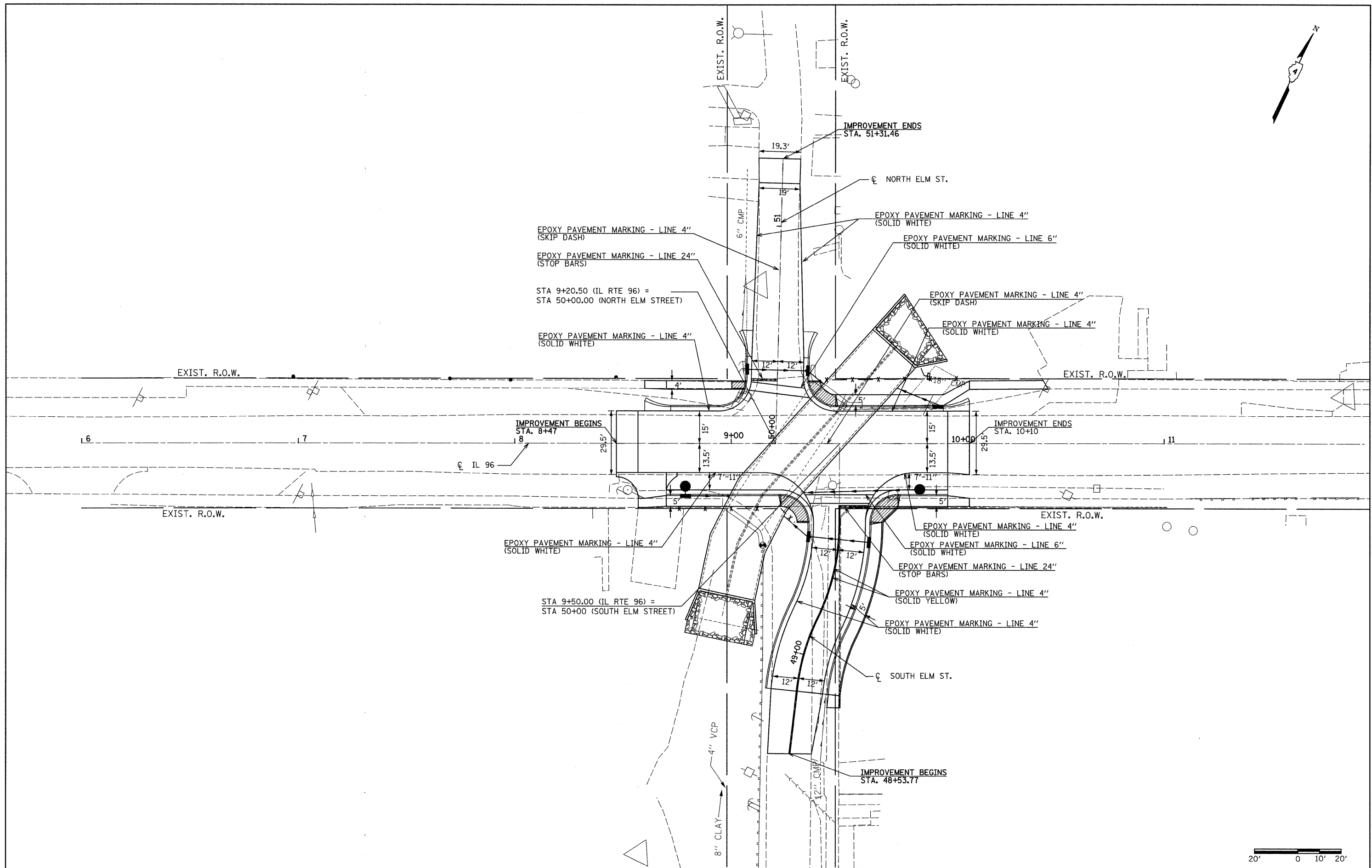
NUMBER	STATION	OFFSET	ELEVATION
SOUTH ELM ST. :			
1	48+53.77	10.06' LT	538.92
2	48+54.87	10.06' RT	539.13
3	48+82.61	12.00' LT	538.27
4	48+82.79	12.00' RT	538.26
5	49+18.58	12.00' LT	537.35
6	49+18.50	12.00' RT	537.35
7	49+63.58	12.00' LT	537.03
8	49+63.58	12.00' RT	537.03
IL 96:			
9	9+23.00	21.42' RT	537.71
10	9+77.00	21.42' RT	537.39
11	8+94.26	15.00' LT	538.05
12	9+48.28	15.00' LT	537.63
NORTH ELM ST. :			
13	50+29.32	12.00' LT	537.00
14	50+30.70	12.00' RT	536.94
15	50+40.00	12.00' LT	536.50
16	50+40.00	12.00' RT	536.50
17	51+20.00	10.76' LT	532.18
18	51+20.00	8.10' RT	532.22
19	51+31.46	11.11' LT	532.28
20	51+31.46	8.16' RT	531.42



PROP. CURVE ELMSREL-1
 PI STA. = 49+00.84
 $\Delta = 20^\circ 27' 32''$ (RT)
 $D = 57^\circ 17' 45''$
 $R = 100.00'$
 $T = 18.05'$
 $L = 35.71'$
 $E = 1.62'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA = 48+82.79$
 $P.T. STA = 49+18.50$

PROP. CURVE ELMSREL-2
 PI STA. = 49+41.22
 $\Delta = 25^\circ 35' 44''$ (LT)
 $D = 57^\circ 17' 45''$
 $R = 100.00'$
 $T = 22.72'$
 $L = 44.67'$
 $E = 2.55'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA = 49+18.50$
 $P.T. STA = 49+63.18$





FILE NAME = #FILEL#	USER NAME = #USER#	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -
	PLOT DATE = #DATE#	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING DETAILS			
SCALE: 1"=20'	SHEET NO. OF SHEETS	STA. TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	(6G-WPSO)BR	HANCOCK	41	23
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 68214	

Bench Mark: Chiseled square on the top of the southeast corner of concrete wall @ southwest corner of 3rd. & Elm Streets, extreme southeasterly end of wall, elev. 538.68.

Existing Structure: S.N. 034-2005 was built in 1937 as Section 6G-WSP0, FAP 522 (IL Route 96) as a cast-in-place concrete arch culvert. It has a length of 73'-6" and the culvert opening is approximately 19'-0" wide at the base and approximately 10'-0" high at it's apex. The structure has a 35° left ahead skew.

No Salvage

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60. See Special Provisions.
Reinforcement bars designated (E) shall be epoxy coated.
Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
For backfilling and embankment see Standard Specifications.
Precast culvert alternate is not allowed.

INDEX OF SHEETS

1. General Plan
2. Culvert Details
3. Soil Borings

DESIGN SPECIFICATIONS

2002 AASHTO Standard specifications for Highway Bridges

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

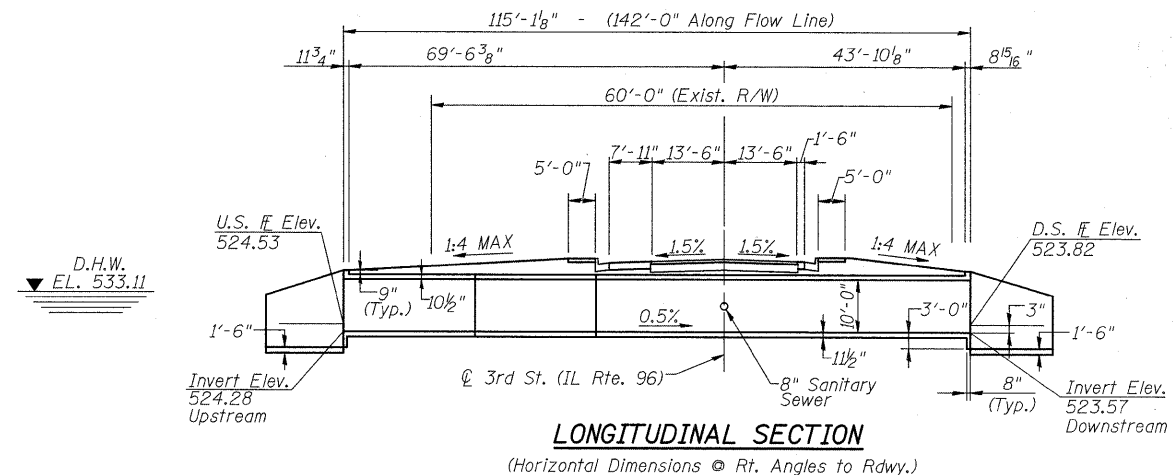
LOADING HS20-44

Allow 50#/sq. ft. for future wearing surface.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Temporary Support System *	L. Sum	1
Rock Excavation for Structures	Cu. Yd.	95
Porous Granular Embankment	Cu. Yd.	300
Trench Backfill	Cu. Yd.	75
Stone Riprap, Class A4	Sq. Yd.	129
Filter Fabric	Sq. Yd.	129
Removal of Existing Structures	Each	1
Reinforcement Bars	Pound	106820
Reinforcement Bars, Epoxy Coated	Pound	940
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	452.2
Granular Culvert Backfill *	Cu. Yd.	343.3
Structure Excavation	Cu. Yd.	1260

* See Special Provisions



LONGITUDINAL SECTION

(Horizontal Dimensions @ Rt. Angles to Rdwy.)

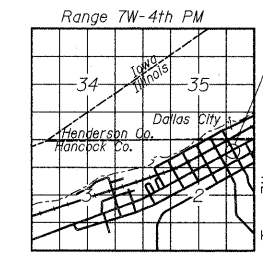
APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Relve Anderson (TJD)
ENGINEER OF BRIDGES AND STRUCTURES

STATION 9+39.04
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. ROUTE 522 SEC. (6G-WPSO)BR
LOADING HS20-44
STR. NO. 034-2524

NAME PLATE

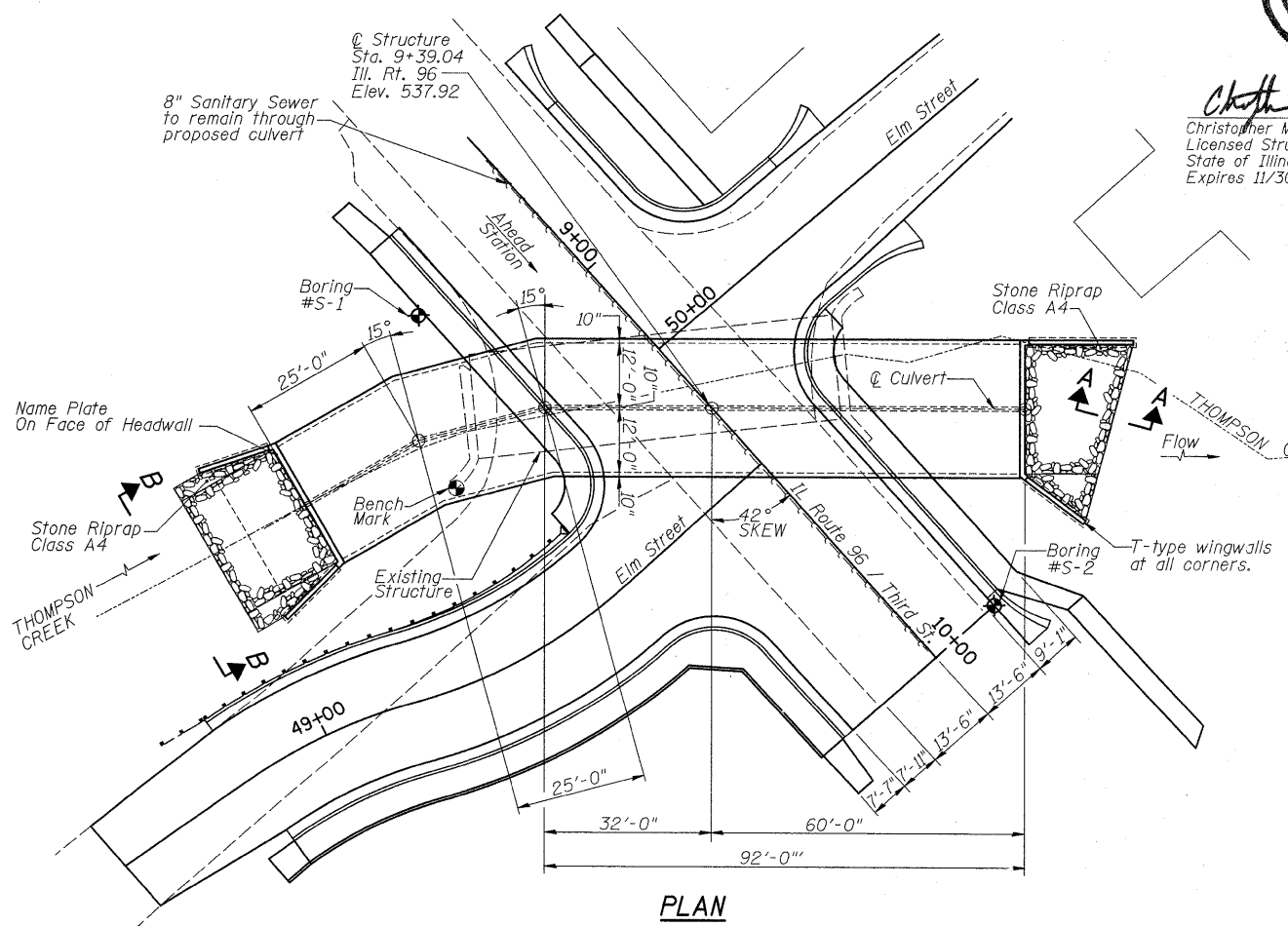
See Std. 515001



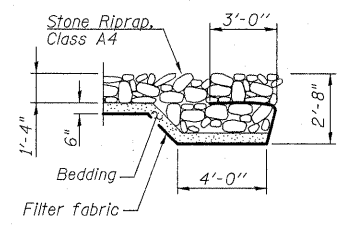
LOCATION SKETCH



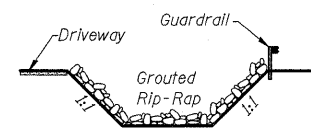
Christopher M. Whiting
Licensed Structural Engineer
State of Illinois
Expires 11/30/2010
Date 10/20/09



PLAN



SECTION A-A



SECTION B-B

DESIGN SCOUR ELEVATION TABLE

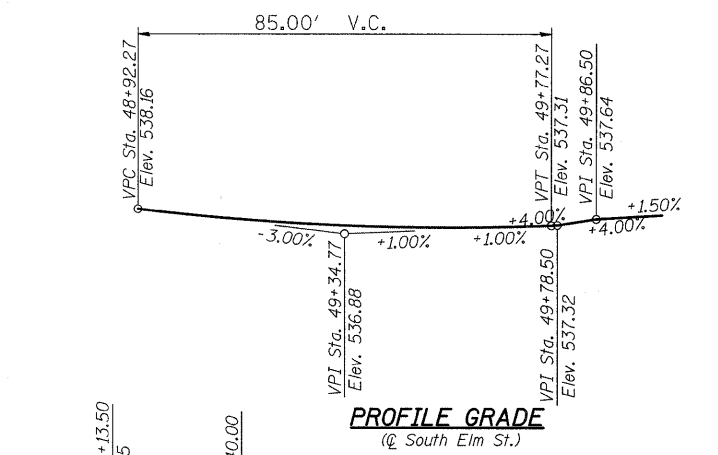
Design Scour Elevation (ft.)	D.S. Invert	U.S. Invert
	520.62	521.14

WATERWAY INFORMATION

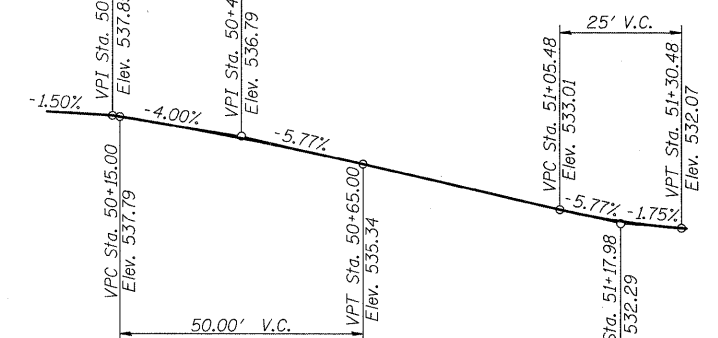
Existing Low Grade Elev. = 537.49 ft. @ Sta. 10+52.85
Proposed Low Grade Elev. = 537.49 ft. @ Sta. 10+52.85

Flood	Freq. Yr.	Q (TOTAL) C.F.S.	Opening Sq. Ft.		Nat. H.W. EL.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	10	756	117	187	531.50	531.70	0.55	0.22	532.05	531.92
Design	50	1270	134	230	532.90	533.11	1.27	0.61	534.17	533.72
Base	100	1520	145	248	533.42	533.63	1.71	0.86	535.13	534.49
Max. Calc.	500	2130	145	240	534.49	534.75	2.74	1.60	537.23	536.35

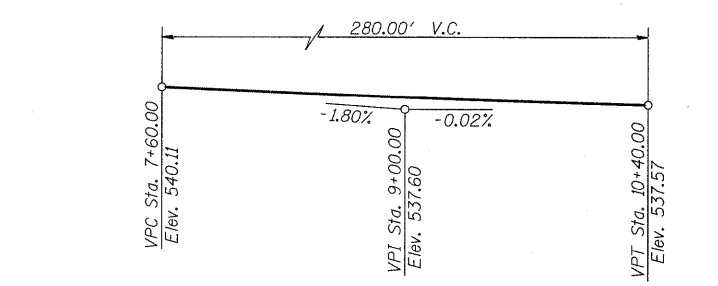
10 Yr. Velocity through Ex. Bridge=4.6 f.p.s. 10 Yr. Velocity through Prop. Bridge=4.2 f.p.s.



PROFILE GRADE
(@ South Elm St.)



PROFILE GRADE
(@ North Elm St.)



PROFILE GRADE
(@ IL Route 96)

GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 96 OVER THOMPSON CREEK
F.A.P. ROUTE 522 SECTION (6G-WPSO) BR
HANCOCK COUNTY
STATION 9+39.04
STRUCTURE NO. 034-2524

DESIGNED	PMW
CHECKED	CMW
DRAWN	MKC
DATE	9/18/09
FILE	Box Culvert Details.dwg

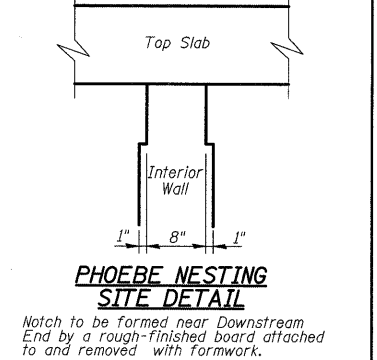
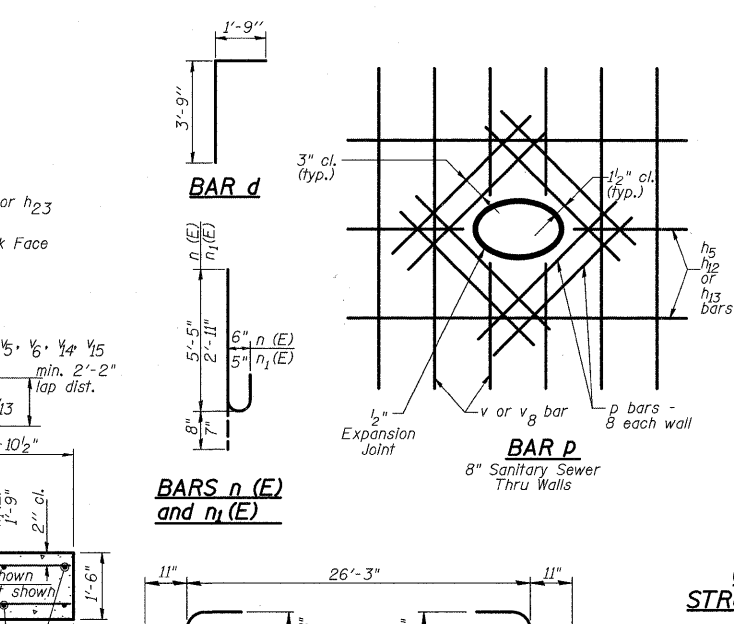
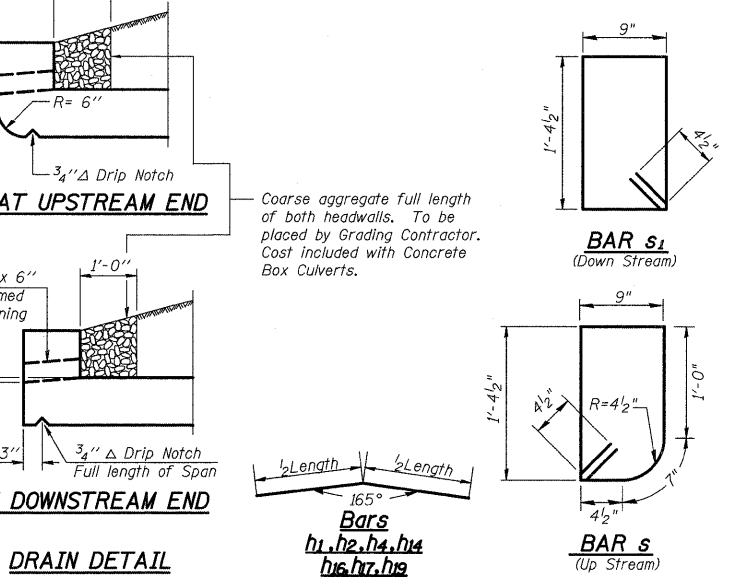
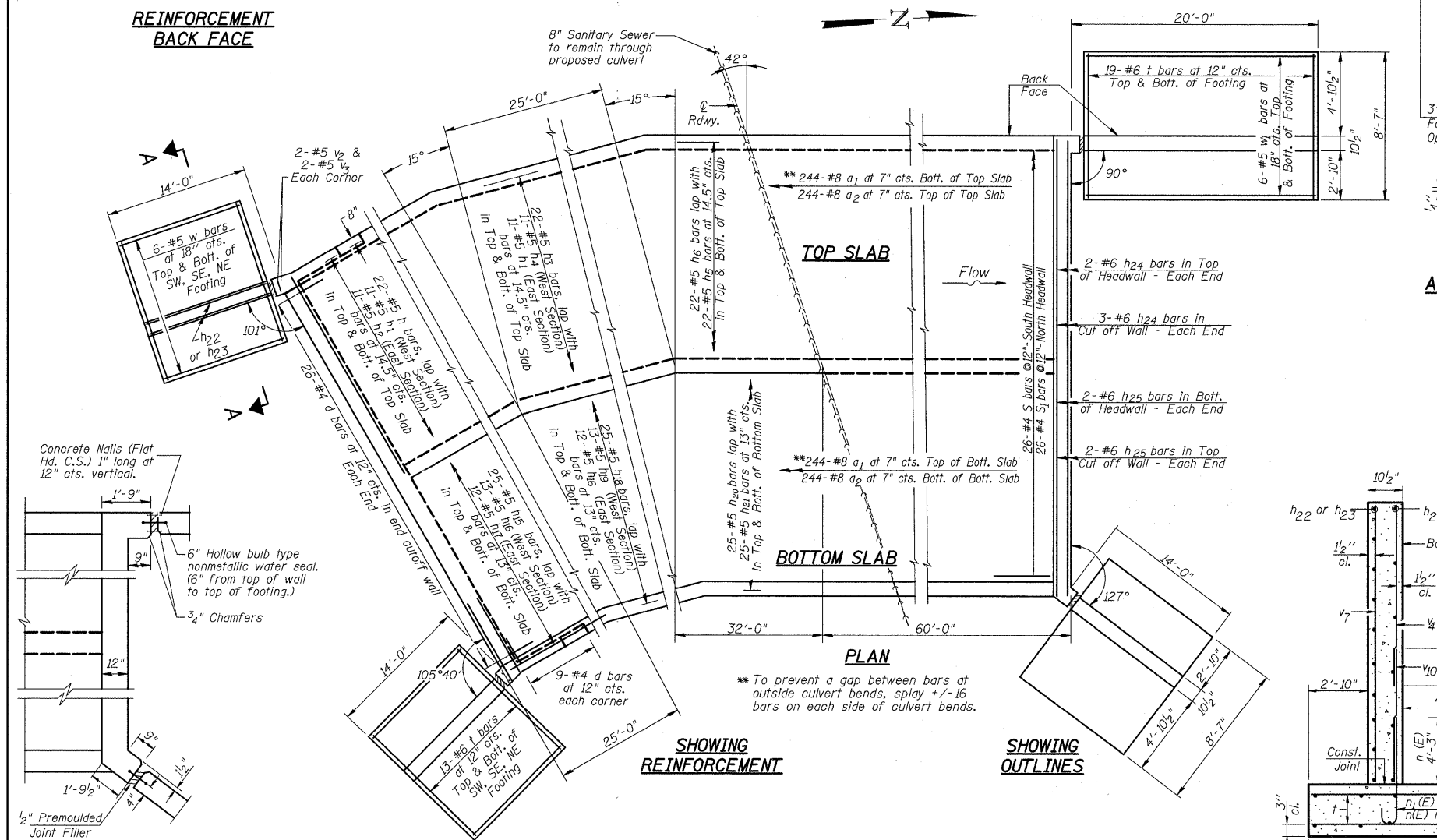
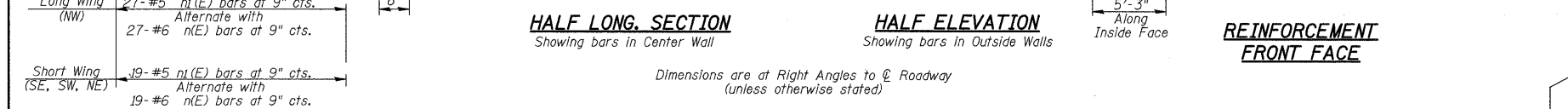
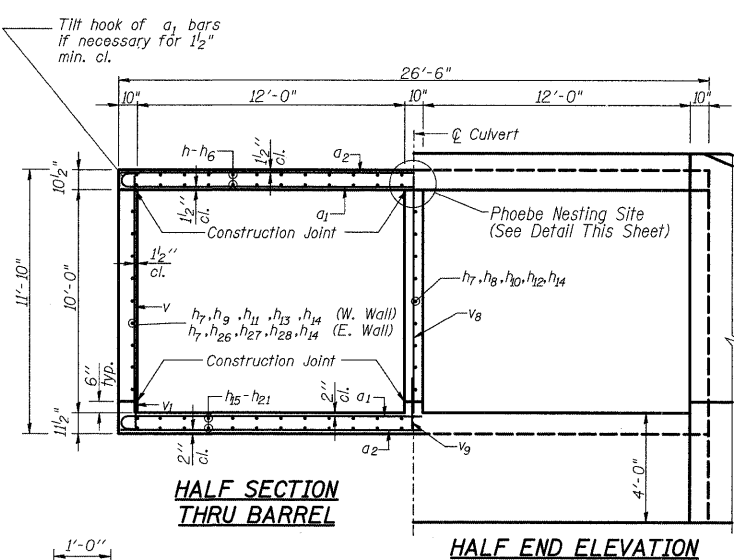
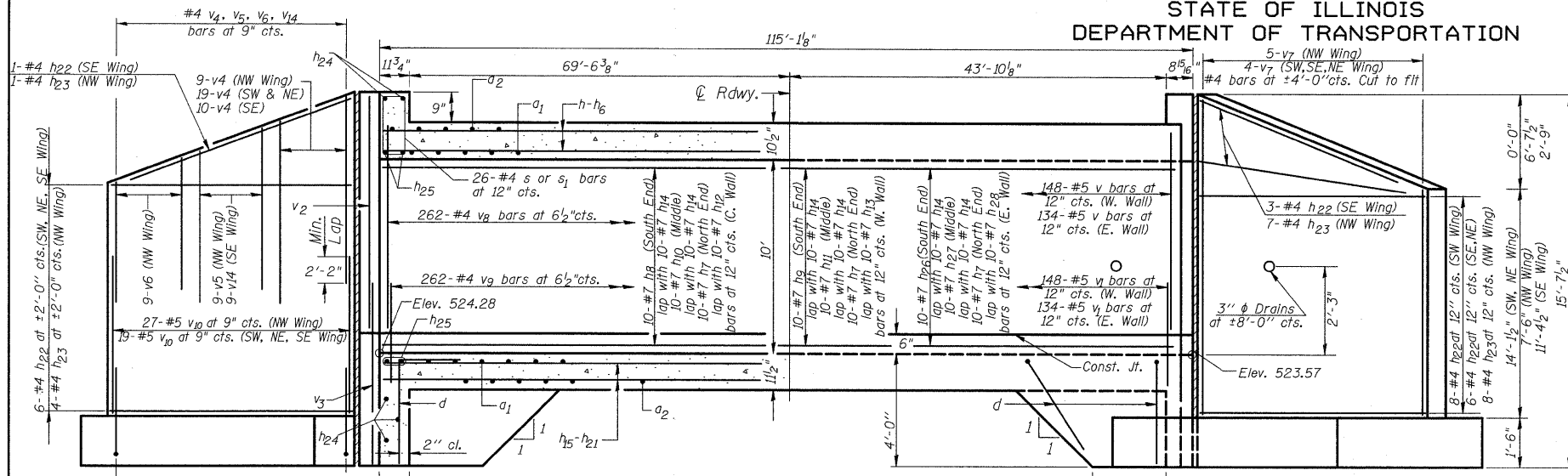


SHEET NO. 1
3 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	(6G-WPSO)BR	HANCOCK	41	24

CONTRACT NO. 68214

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1	488	#8	28'-1"	
a2	488	#8	26'-3"	
d	88	#4	5'-6"	
h	44	#5	23'-0"	
h1	44	#5	12'-9"	
h2	22	#5	9'-3"	
h3	44	#5	21'-6"	
h4	22	#5	19'-9"	
h5	44	#5	42'-9"	
h6	44	#5	50'-0"	
h7	30	#7	50'-0"	
h8	10	#7	24'-9"	
h9	10	#7	26'-6"	
h10	10	#7	25'-0"	
h11	10	#7	28'-6"	
h12	10	#7	44'-6"	
h13	10	#7	46'-3"	
h14	60	#7	5'-8"	
h15	50	#5	23'-0"	
h16	50	#5	10'-7"	
h17	24	#5	7'-7"	
h18	50	#5	21'-6"	
h19	26	#5	17'-1"	
h20	50	#5	41'-10"	
h21	50	#5	50'-0"	
h22	62	#4	13'-0"	
h23	20	#4	19'-0"	
h24	10	#6	26'-3"	
h25	8	#6	26'-3"	
h26	10	#7	23'-0"	
h27	10	#7	21'-6"	
h28	10	#7	42'-9"	
n	24	#4	3'-0"	
n(E)	84	#6	5'-5"	
n1(E)	84	#5	2'-11"	
t	116	#6	8'-4"	
v	282	#5	10'-1"	
v1	282	#5	1'-0"	
v2	8	#5	10'-10 1/2"	
v3	8	#5	6'-2"	
v4	57	#4	9'-11"	
v5	9	#4	7'-8 1/2"	
v6	9	#4	5'-6"	
v7	17	#4	13'-10 1/2"	
v8	262	#4	10'-1"	
v9	262	#4	1'-0"	
v10	84	#4	6'-3"	
v13	Not Used	-	-	
v14	9	#4	8'-0"	
v15	Not Used	-	-	
w	36	#5	13'-9"	
w1	12	#5	19'-9"	
s	26	#4	4'-10 1/4"	
s1	26	#4	5'-1 3/4"	
Concrete Box Culverts	Cu. Yd.		452.2	
Reinf. Bars, Epoxy Coated	Pound		940	
Reinforcement Bars	Pound		106820	

CULVERT DETAILS
STRUCTURE NO. 034-2524



SOIL BORING LOG

Page 1 of 1
Date 06/06/2007

ROUTE FAP 522 (IL 96) DESCRIPTION IL 96 Over Thompson Creek LOGGED BY Brett Watkins

SECTION (6G-WPSO)BR LOCATION Dallas City, Illinois SEC. 2 TWP. 7N RNG. 7W PM 4

COUNTY Hancock STRUCTURE NO. 034-2005 (Exist.) 034-2524 (Prop.)

BORING NO. S-1 DRILLING METHOD Rotary / Hollow Stem HAMMER TYPE Automatic

SOIL DESCRIPTION	DEPTH (ft.)	SPT (blows)	UCS (tsf)	MOIST. (%)	SOIL DESCRIPTION	DEPTH (ft.)	SPT (blows)	UCS (tsf)	MOIST. (%)
Station 8+85					Surface Water Elev. 524 (ft.)				
Offset R30					Groundwater Elev.				
Ground Surface Elev. 538 (ft.)					First Encounter N/A (ft.)				
					Upon Completion N/A (ft.)				
					After N/A Hrs. N/A (ft.)				
Topsoil		2	.5p	14					
Firm, moist, dark brown, mottled, Silty Clay Loam, A7-6	536.5	3							
		3							
Soft, moist, lt. brown to dark brown Silty Clay Loam, A-6		1	.5p	15					
		2			Coring Terminated 515.0	-23			
		1							
Soft, moist, lt. brown to dark brown Silty Clay Loam A-6		2	.5p	22					
	-5	1				-25			
		2							
Firm, moist, brown to dark brown Silty Clay Loam, A-6		3	1p	18					
		2							
		3							
Firm, moist, brown to dark brown Silty Clay Loam, A-6	528.0	2	1.5p	18					
	-10	5				-30			
		7							
Auger Refusal @ 13.0 feet 525.0	-13								
Hard, light gray crystalline limestone Start Rock Coring									
Recovery = 60%	-15					-35			
Rock Quality Designation (RQD) = 33%									
Start 2 nd Core Run	-18								
Recovery = 80%									
RQD = 42%									
	-20					-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)



SOIL BORING LOG

Page 1 of 1
Date 06/06/2007

ROUTE FAP 522 (IL 96) DESCRIPTION IL 96 Over Thompson Creek LOGGED BY Brett Watkins

SECTION (6G-WPSO)BR LOCATION Dallas City, Illinois SEC. 2 TWP. 7N RNG. 7W PM 4

COUNTY Hancock STRUCTURE NO. 034-2005 (Exist.) 034-2524 (Prop.)

BORING NO. S-2 DRILLING METHOD Rotary / Hollow Stem HAMMER TYPE Automatic

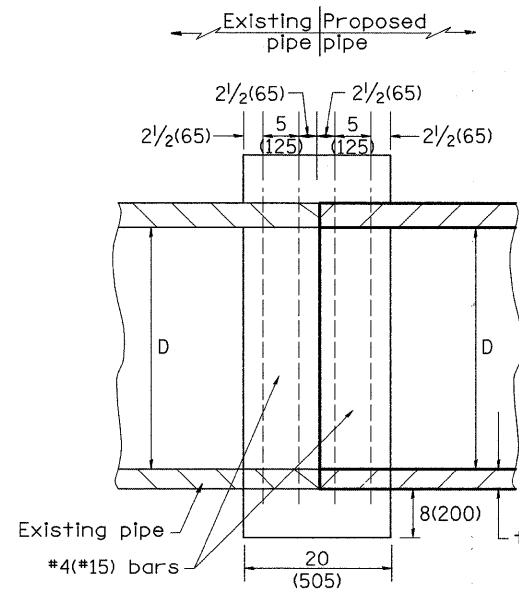
SOIL DESCRIPTION	DEPTH (ft.)	SPT (blows)	UCS (tsf)	MOIST. (%)	SOIL DESCRIPTION	DEPTH (ft.)	SPT (blows)	UCS (tsf)	MOIST. (%)
Station 10+00					Surface Water Elev. 524 (ft.)				
Offset L15					Groundwater Elev.				
Ground Surface Elev. 536.5 (ft.)					First Encounter N/A (ft.)				
					Upon Completion N/A (ft.)				
					After N/A Hrs. N/A (ft.)				
Asphalt Surface (12-inches)									
	535.5				Coring Terminated @ 21.0 Feet	515.5			
Firm, moist, dark brown, mottled, Silty Clay Loam, A7-6		2	.5p	20					
		3							
		2							
	533.5	-3							
Soft, moist, lt. brown to dark brown Silty Clay Loam A-6		0	.25p	16					
		1							
		1							
Firm, moist, brown to dark brown Silty Clay Loam, A-6		2	.5p	13					
		2							
		2							
Firm, moist, brown to dark brown Silty Clay Loam, A-6		1	.5p	20					
		2							
		1							
Firm, moist, brown to dark brown Silty Clay Loam, A-6		1	.5p	19					
	-10	1				-30			
		2							
Firm, moist, brown to dark brown Silty Clay Loam, A-6		2	.5p	20					
		2							
		5							
	523.0								
Light gray crystalline limestone Highly weathered, augered		4		12					
		22							
		50+							
	520.5	-16							
Auger Refusal @ 16.0 Started Coring - Light gray crystalline limestone Weathered									
Recovery = 80%									
Rock Quality Designation (RQD) = 42%									
	-20					-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

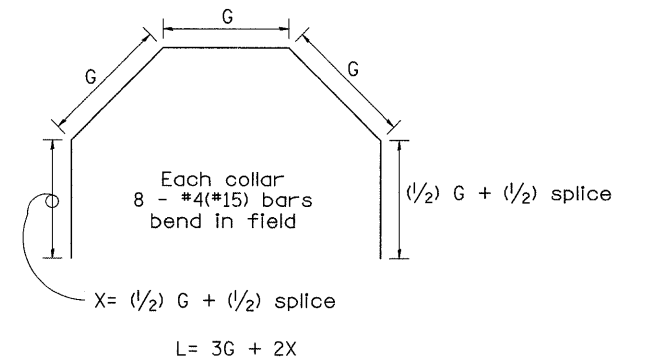
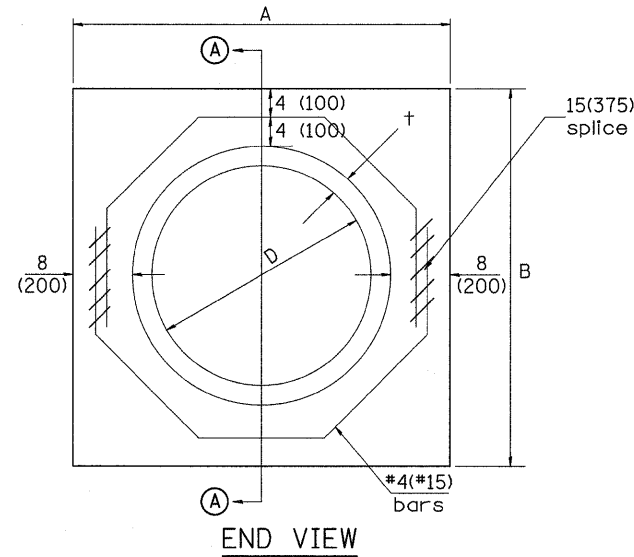
BBS 137 (9/05)

SOIL BORINGS
STRUCTURE NO. 034-2524

DESIGNED: PMH		SHEET NO. 3	F.A.P. RTE. 522	SECTION (6G-WPSO)BR	COUNTY HANCOCK	TOTAL SHEETS 41	SHEET NO. 26	
CHECKED: CMW		3 SHEETS	CONTRACT NO. 68214					
DRAWN: MKK		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT						
CHECKED: S/BB/09								
FILE: Riv. Culvert Detail.dwg								



SECTION A - A



		Each Collar							
		Reinforcement Bars							
D	t	A	B	CL. SI CONC.	G	X	L	Weight	
in (mm)	in (mm)	ft (m)	ft (m)	cu. yd. (m ³)	in (mm)	in (mm)	ft (m)	lb (kg)	
12 (300)	2.00 (51)	2.67 (0.814)	2.67 (0.814)	0.4 (0.270)	9 ¹⁵ / ₁₆ (253)	12 ⁷ / ₁₆ (317)	4.57 (1.393)	24 (11)	
15 (375)	2.25 (57)	2.96 (0.902)	2.96 (0.902)	0.4 (0.315)	11 ³ / ₈ (290)	13 ³ / ₁₆ (335)	5.05 (1.541)	27 (12)	
18 (450)	2.50 (64)	3.25 (0.991)	3.25 (0.991)	0.5 (0.362)	12 ¹³ / ₁₆ (327)	13 ⁷ / ₈ (354)	5.54 (1.689)	30 (14)	
21 (525)	2.75 (70)	3.54 (1.079)	3.54 (1.079)	0.5 (0.411)	14 ¹ / ₄ (364)	14 ⁵ / ₈ (372)	6.02 (1.836)	32 (15)	
24 (600)	3.00 (76)	3.83 (1.167)	3.84 (1.167)	0.6 (0.460)	15 ¹¹ / ₁₆ (401)	15 ⁵ / ₁₆ (391)	6.51 (1.984)	35 (16)	
27 (675)	3.25 (83)	4.13 (1.259)	4.13 (1.259)	0.7 (0.516)	17 ¹ / ₄ (438)	16 ¹ / ₁₆ (409)	6.99 (2.131)	37 (17)	
30 (750)	3.50 (89)	4.42 (1.347)	4.42 (1.347)	0.7 (0.570)	18 ¹¹ / ₁₆ (475)	16 ³ / ₄ (428)	7.48 (2.279)	40 (18)	
33 (825)	3.75 (95)	4.71 (1.436)	4.71 (1.436)	0.8 (0.624)	20 ¹ / ₈ (512)	17 ¹ / ₂ (446)	7.96 (2.426)	43 (19)	
36 (900)	4.00 (102)	5.00 (1.524)	5.00 (1.524)	0.9 (0.682)	21 ⁹ / ₁₆ (549)	18 ³ / ₁₆ (465)	8.44 (2.574)	45 (20)	
42 (1050)	4.50 (114)	5.58 (1.701)	5.58 (1.701)	1.0 (.800)	24 ⁷ / ₁₆ (622)	19 ³ / ₄ (501)	9.41 (2.869)	50 (23)	
48 (1200)	5.00 (127)	6.17 (1.881)	6.17 (1.881)	1.2 (0.930)	27 ⁵ / ₁₆ (696)	21 ³ / ₁₆ (538)	10.38 (3.164)	55 (25)	

GENERAL NOTES

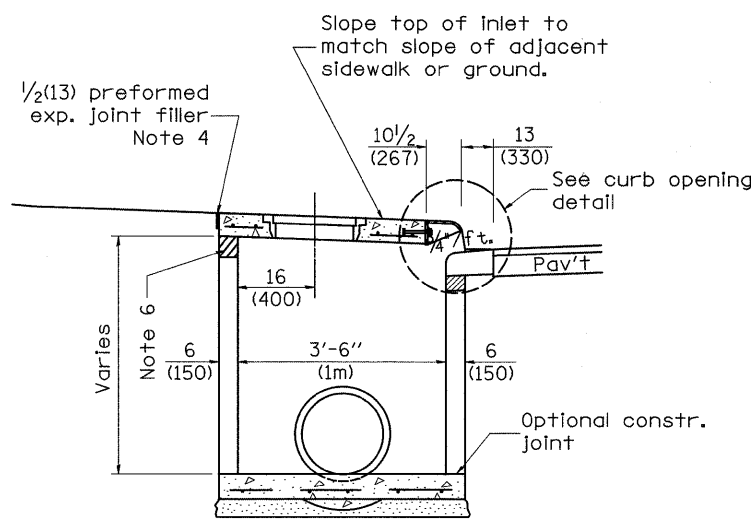
1. THE COLLAR SHALL BE CONSTRUCTED ENTIRELY OF CLASS SI CONCRETE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 503 OF THE STANDARD SPECIFICATIONS. REINFORCEMENT BARS SHALL CONFORM TO SECTION 508.

QUANTITIES	
CALC. BY: R. J. D.	2-2-98
CHECKED BY: R. D. H.	2-6-98
DATE:	
DATE:	
QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION	

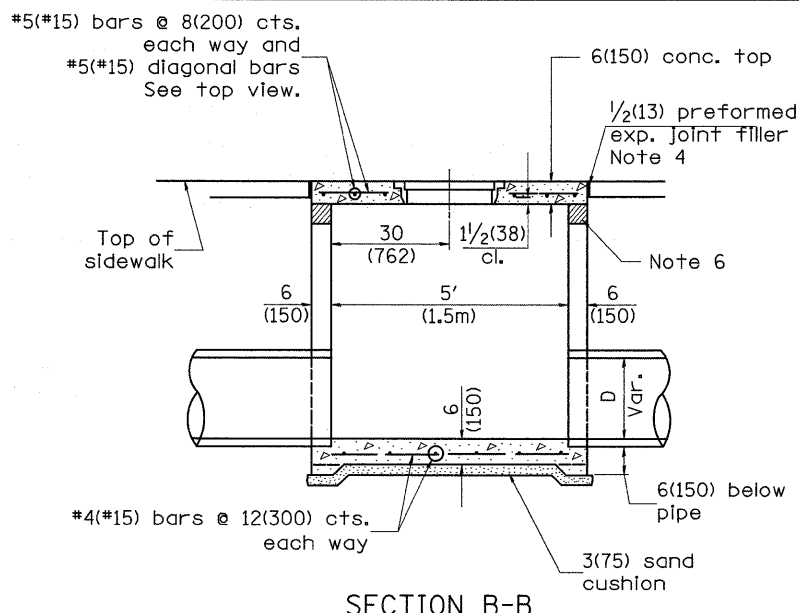
All dimensions are in inches (millimeters) unless otherwise noted.

DATE	REVISIONS	BY
1-1-97	RENUM. B-8.03, NEW REVISION BOX ADDED QUANTITY CALCULATION BOX, REVISED TITLE BOX	T.P.
4-1-97	CORRECT BAR	J.A.
2-10-98	REVISE QUANTITIES	J.A.
9-1-00	CORRECT WEIGHT	J.A.
10-16-06	REV. TO 2007 SPEC., CORRECT mm UNITS	M.A.

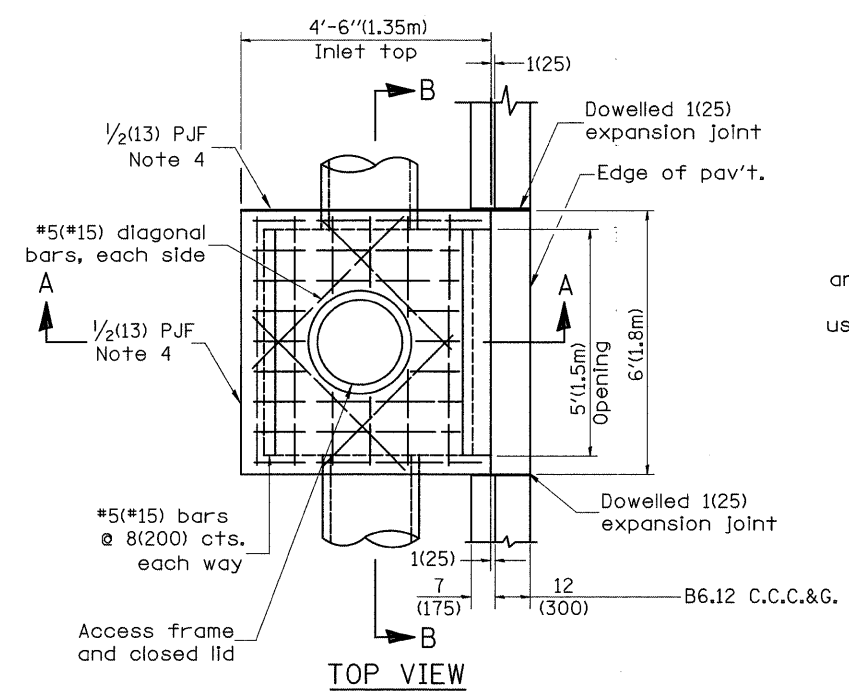
FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		PIPE CULVERT EXTENSION COLLAR (WITHOUT END SECTION) CADD STANDARD 542016-D4		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILEL#		DRAWN -	REVISED -					522	(6G-WPSO)BR	HANCOCK	41	28
PLOT SCALE = #SCALE#		CHECKED -	REVISED -									
PLOT DATE = #DATE#		DATE -	REVISED -									
						SCALE: N/A		SHEET NO. OF SHEETS		STA. N/A TO STA. N/A		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT



SECTION A-A

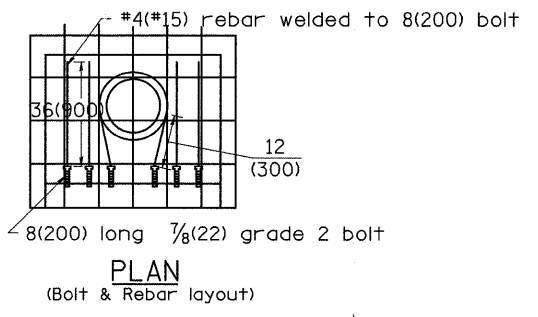


SECTION B-B

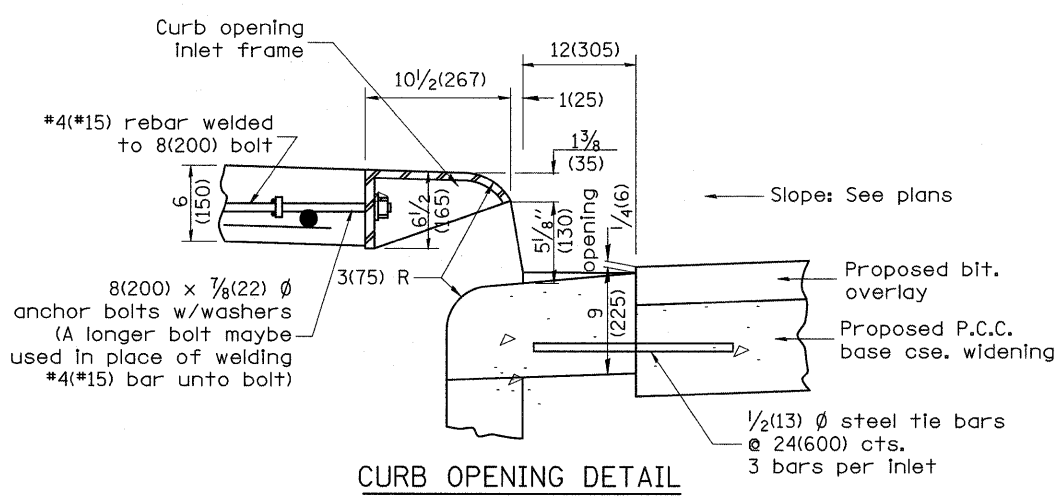


INLET SPECIAL TYPE 1

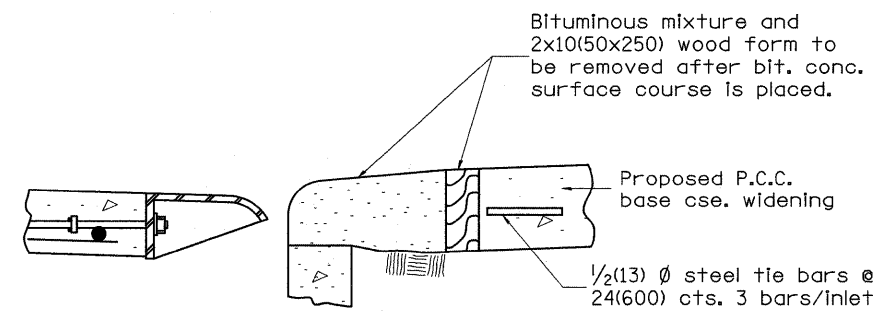
(Front Opening 4'-6" (1.35) Top)



PLAN (Bolt & Rebar layout)



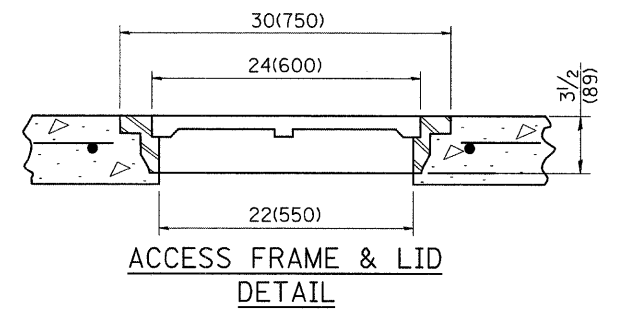
CURB OPENING DETAIL



CURB OPENING DETAIL FOR TEMPORARY PAVEMENT DRAINAGE

GENERAL NOTES

- Class PC concrete for precast concrete and CLASS SI CONCRETE for cast-in-place concrete used throughout.
- The sidewalks may be built as precast segmental sections.
- Except as noted herein, INLET SPECIAL TYPE 1, TYPE2, AND, TYPE 3 shall be constructed in accordance with section 602 of the Standard Specifications.
- 1/2(13) preformed expansion joints shall be provided on sides of inlet adjacent to sidewalks or other structures. (See section 1051)
- Curb opening inlet frame, and access frame and lid shall be cast gray Iron and conform to A48-83 class 35B
Approximate weight:
Curb opening inlet frame: 100lbs/30(45kg/750)
section Access frame and lid: 160 lbs(73kg)/ casting.
- The height of the box may be constructed 6(150) short to allow for field adjustment. The wall adjustments shall be made with concrete building brick or CLASS SI CONCRETE. (See article 1041.02 and applicable portions of section 503).

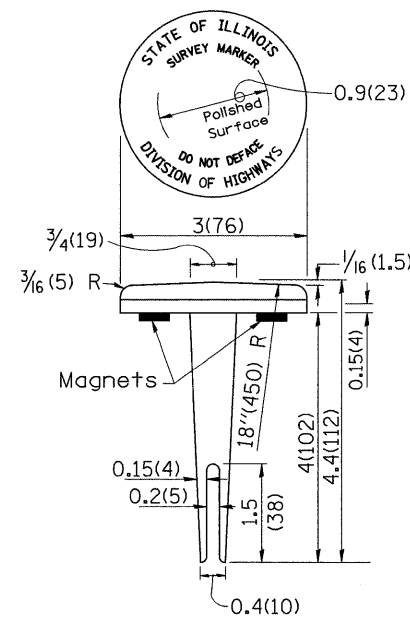


ACCESS FRAME & LID DETAIL

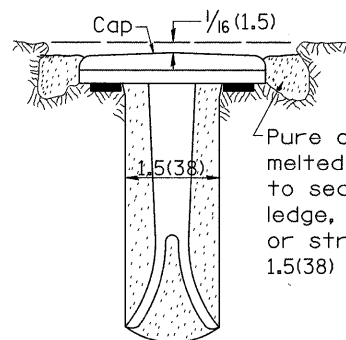
All dimensions are in inches (millimeters) unless otherwise noted.

DATE	REVISIONS	BY
1-1-97	RENUM B-4.12, NEW REVISION BOX, ADDED DESIGNER NOTES, NEW FORMAT.	
10-16-06	REVISED TO 2007 SPEC.	M.A.

PERMANENT SURVEY MARKERS



**BRONZE TABLET - No Scale
TYPE I**

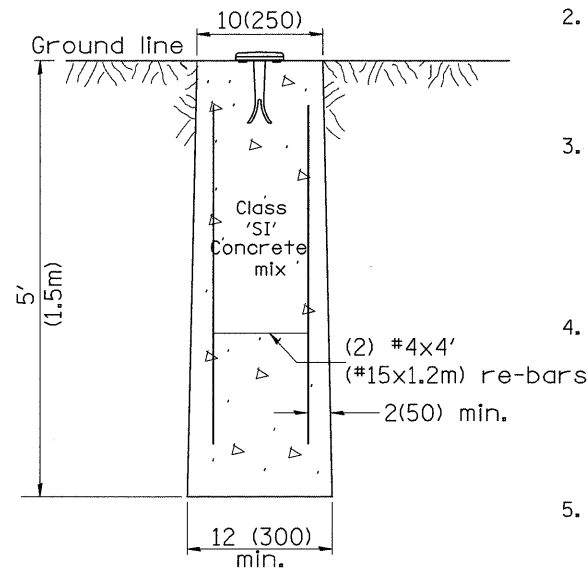


INSTALLED

Pure cement and water or melted sulfur user to seal tablet in rock ledge, concrete pavement or structure, set in hole 1.5(38) in diameter.

GENERAL NOTES

- All type II markers shall be cast in place, and precast markers will not be allowed.
- Two permanent magnets, each having a diameter of 3/4 (19) and a thickness of 1/4 (6), or equivalent, shall be attached to the underside of the tablet with an approved epoxy bonding agent.
- The location of the markers shall be in accordance with the plans in general, the markers will be placed at the P.T.'s and P.C.'s of horizontal curves and spaces along the tangents in a way that a minimum of two markers are always inter-visible, and not to exceed 1000' (300m).
- The markers shall be placed under the direction of the Engineer and shall be installed in a workmanlike manner in order that there will be no further settlement or horizontal shifting. The monuments shall be placed in a way that the survey point will fall within the portion of the plaque provided for that purpose.
- The project designation, the centerline station, the survey point, and the elevation shall be permanently marked by the use of metal dies after marker has been installed.

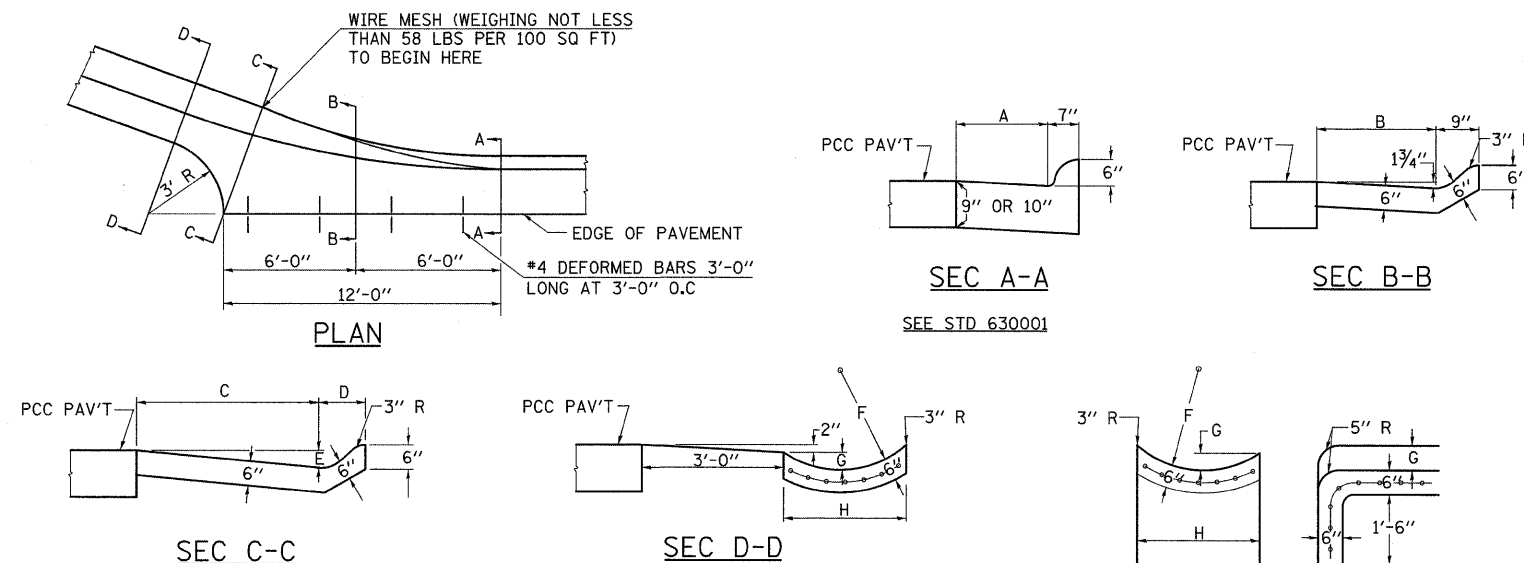


**MARKER CAST IN PLACE
TYPE II**

All dimensions are in Inches (millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION		
DISTRICT CADD STANDARD		
DATE	REVISIONS	BY
1-1-97	RENUM. D-3.01, NEW REVISION BOX ADD DESIGNER NOTE, REVISED TITLE BOX	T.P.
7-7-98	ADD DESIGNER NOTE	J.A.
5-24-06	REMOVED GEN. NOTE UNDER TIES	M.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.
PERMANENT SURVEY MARKERS TY.I - TY.II		
CADD STD. NO. 667101-D4		
SCALE: NOT DRAWN TO SCALE		
DRAWN BY CADD		
CHECKED BY		

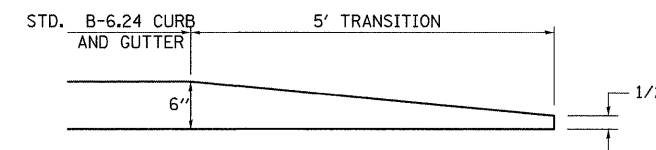
OUTLET SPECIAL FOR CONCRETE CURB AND GUTTER



STD 2130 TYPE	A	B	C	D	E	F	G	H	SEC A-A TO SEC D-D & CURTAIN WALL CU YDS	TROUGH CU YDS/FOOT
M-6.06	6"	11"	2'-7 1/2"	8 1/2"	2"	1'-3"	3"	1'-6"	0.7	0.03
B-6.12 OR M-6.12	1'-0"	1'-6"	2'-10 3/4"	10 3/4"	3"	1'-6"	4"	2'-0"	0.9	0.04
B-6.18 OR M-6.18	1'-6"	1'-11"	3'-2"	1'-0"	3"	2'-0"	4"	2'-3"	1.0	0.04
B-6.24 OR M-6.24	2'-0"	2'-5 1/2"	3'-6 1/2"	1'-1 1/2"	4"	2'-0"	5"	2'-6"	1.2	0.05

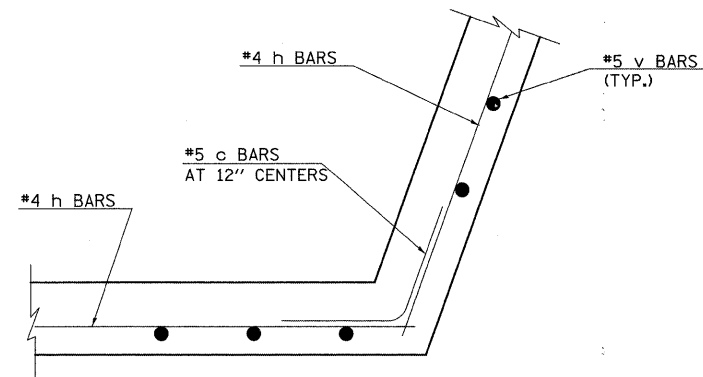
NOTES:

CLASS SI CONCRETE SHALL BE USED THROUGHOUT. OUTLET SPECIAL SHALL BE TIED TO THE PAVEMENT BY #4 DEFORMED BARS 3'-0" LONG AND SPACED 3'-0" CENTERS. GUTTER OUTLET SHALL BE REINFORCED WITH WIRE MESH HAVING A WEIGHT OF AT LEAST 58 POUNDS PER 100 SQ. FT. OUTLET SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR CLASS SI CONCRETE (OUTLET) WHICH PRICE SHALL INCLUDE THE COST OF THE TIE BARS AND THE WIRE MESH REINFORCEMENT.

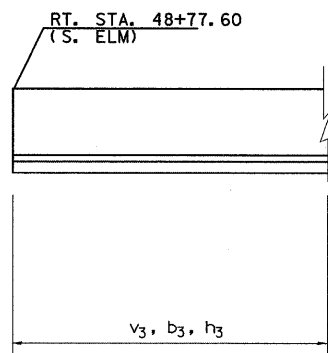


**CURB TRANSITION DETAIL TO BE USED
AT RT. STA. 8+70 AND RT. STA. 10+00 IL 96
AND AT LT. AND RT. STA. 48+72.85 SOUTH ELM ST.**

RETAINING WALL DETAIL

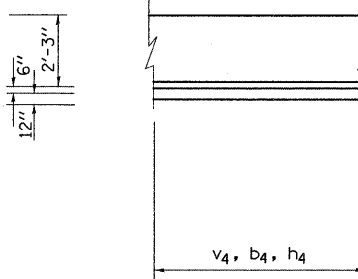


TO BE USED AT CORNERS
 RT. STA. 49+63.70 (S. ELM)
 RT. STA. 9+77.03 (IL RTE 96)



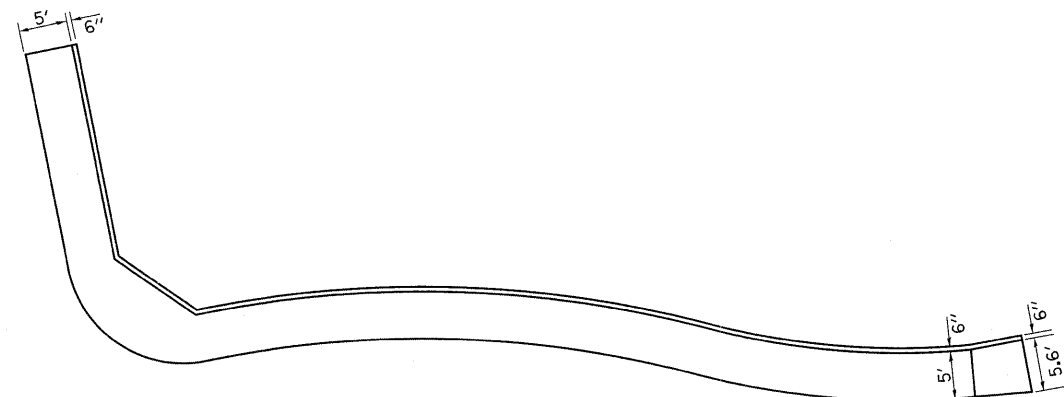
ELEVATION

TO BE USED:
 RT. STA. 48+77.60 TO
 STA. 49+63.70 (S. ELM)

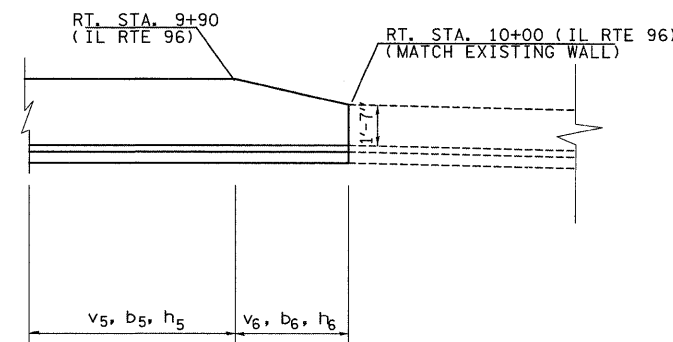


ELEVATION

TO BE USED:
 RT. STA. 49+63.70 (S. ELM) TO
 RT. STA. 9+77.03 (IL RTE 96)



PLAN

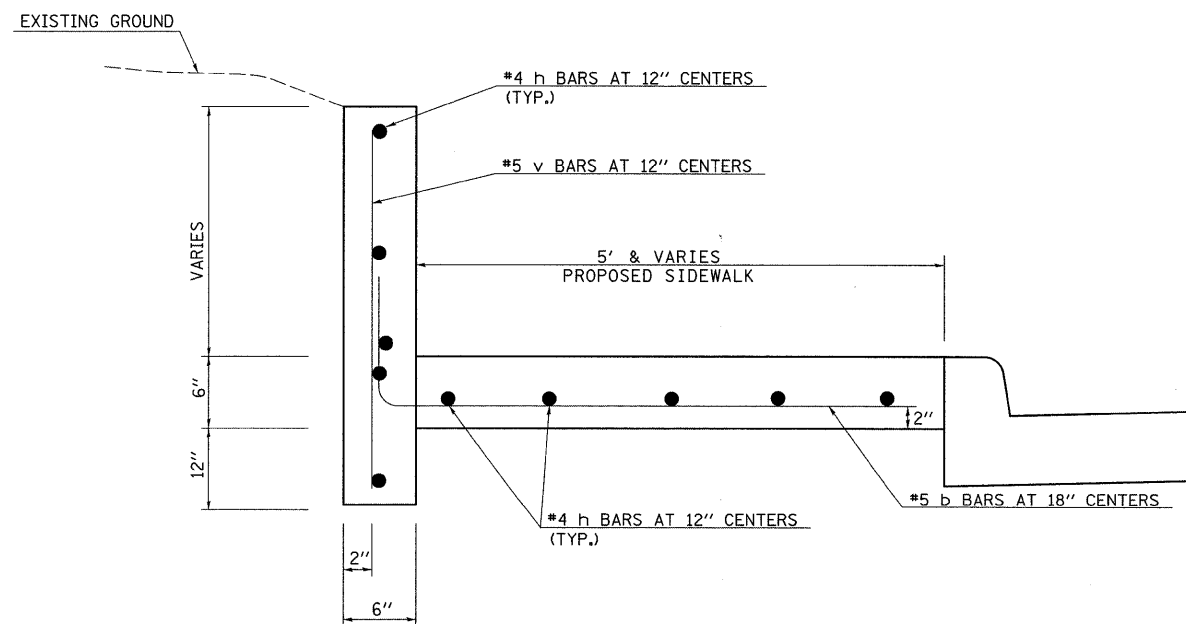


ELEVATION

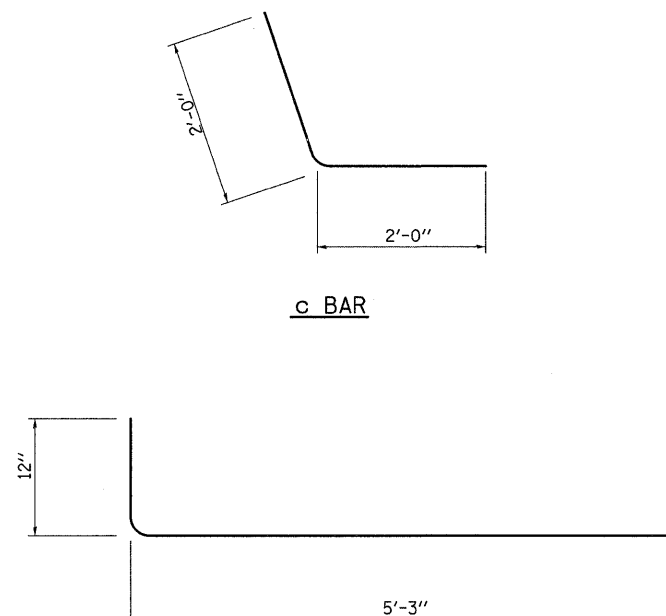
TO BE USED:
 RT. STA. 9+77.03 TO
 STA. 10+10 (IL RTE 96)

BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH	SHAPE
c	8	#5	4.00'	L
v ₃	89	#5	3.45'	—
b ₃	59	#5	6.25'	L
h ₃	50	#4	19.25'	—
v ₄	11	#5	3.45'	—
b ₄	7	#5	6.38' AVE.	L
h ₄	11	#4	12.4' AVE.	—
v ₅	13	#5	3.45'	—
b ₅	9	#5	6.25'	L
h ₅	10	#4	14.97'	—
v ₆	10	#5	3.12' AVE.	—
b ₆	7	#5	6.25'	L
h ₆	10	#4	12.00'	—
REINFORCEMENT BARS			1920	POUND
CONCRETE STRUCTURES			20.4	CU. YD.
PROTECTIVE COAT			109	SQ. YD.



RETAINING WALL

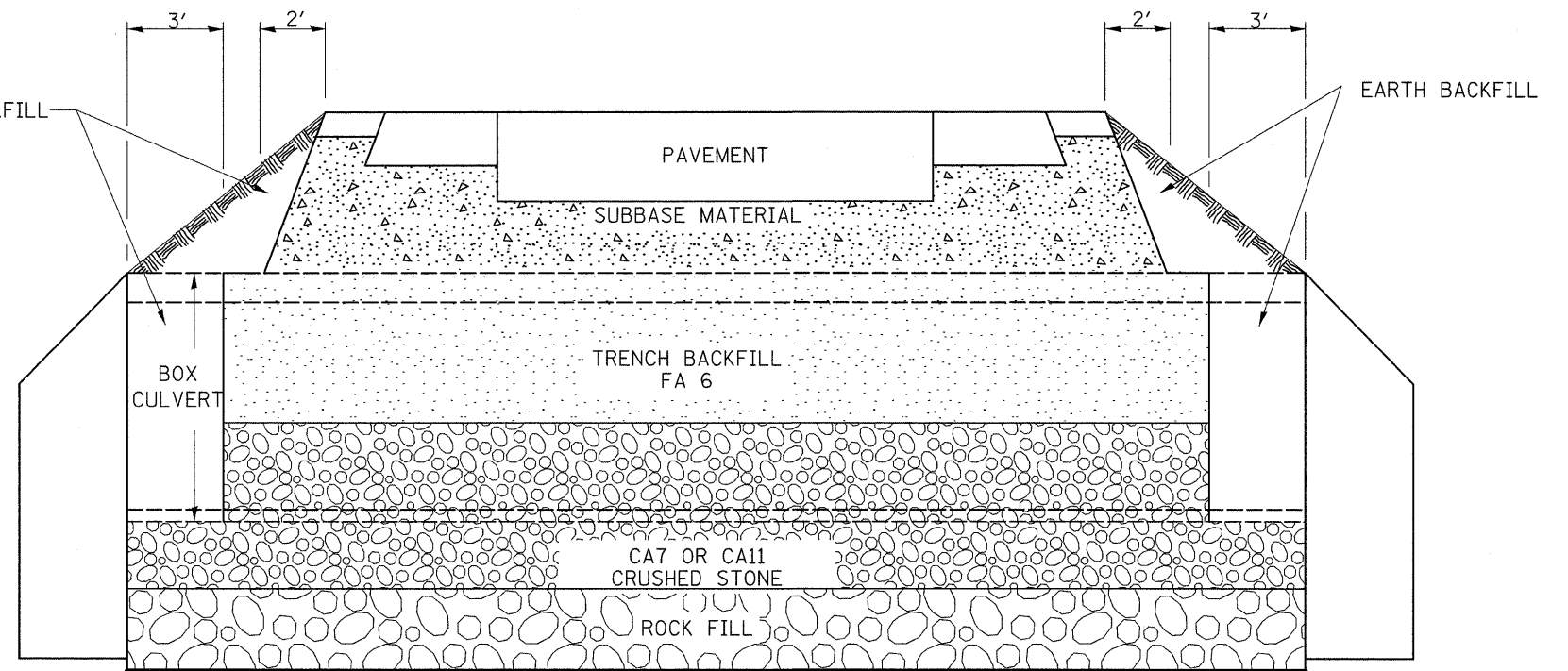
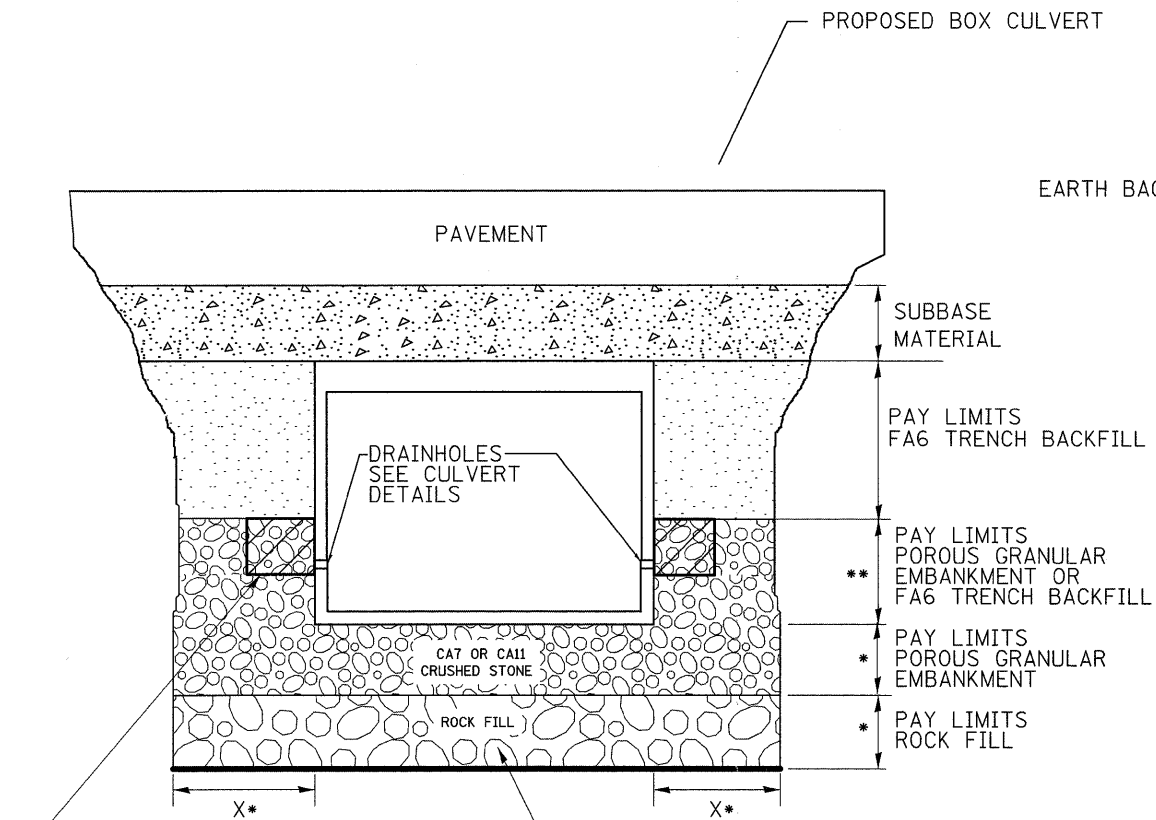


b BAR
 b₃, b₅, b₆

CONTROL JOINTS @ 5'-0" O.C.

ROADWAY PROFILE VIEW

ROADWAY CROSS SECTION VIEW



2' x 2' x 2' DEPOSIT OF CA 5, 7, OR 11 IN FABRIC ENVELOPE IN ACCORDANCE WITH ARTICLE 502.10 OF THE STANDARD SPECIFICATIONS (TYPICAL)

PROPOSED REMOVAL & DISPOSAL OF UNSUITABLE, AND REPLACE WITH ROCKFILL. PAID FOR BY ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

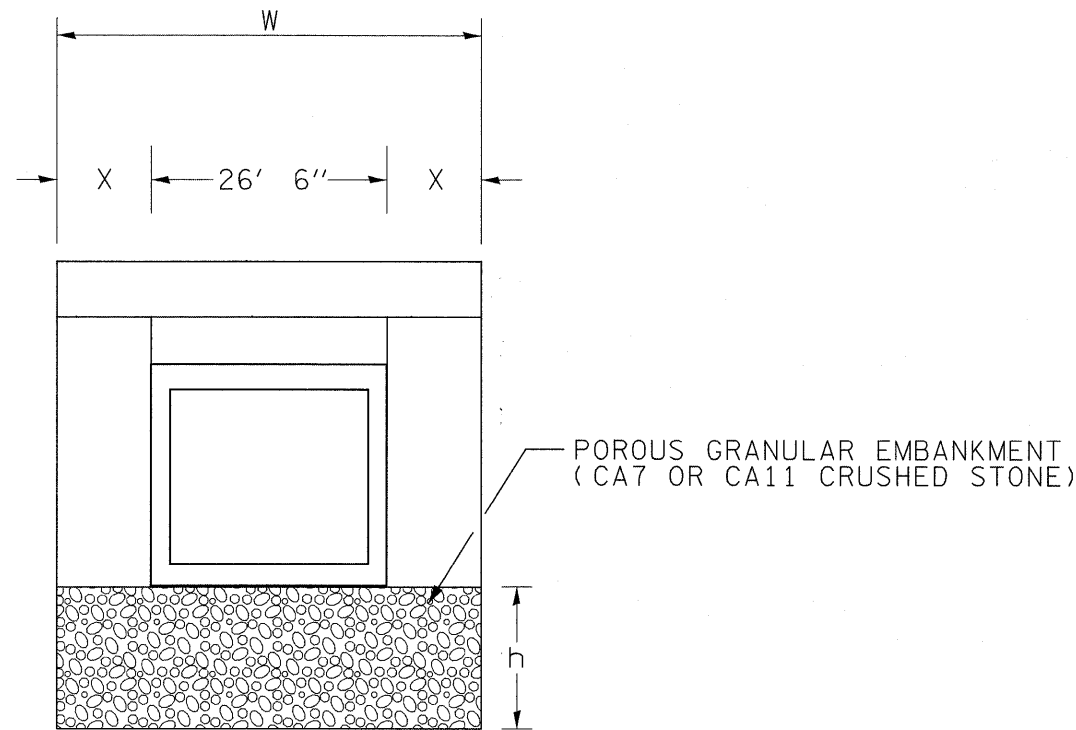
- * SEE UNDERCUT DETAIL FOR DEPTHS AND WIDTHS. IF THERE IS NO UNDERCUT, X = 2 FEET.
- ** EXTEND THE POROUS GRANULAR EMBANKMENT TO THE TOP OF THE DRAINHOLE FILTER FABRIC ENVELOPES. IF THE BOX CULVERT DOES NOT HAVE DRAINHOLES, THEN BEGIN PLACING TRENCH BACKFILL AT THE BOTTOM OF THE CULVERT.

NOTES:

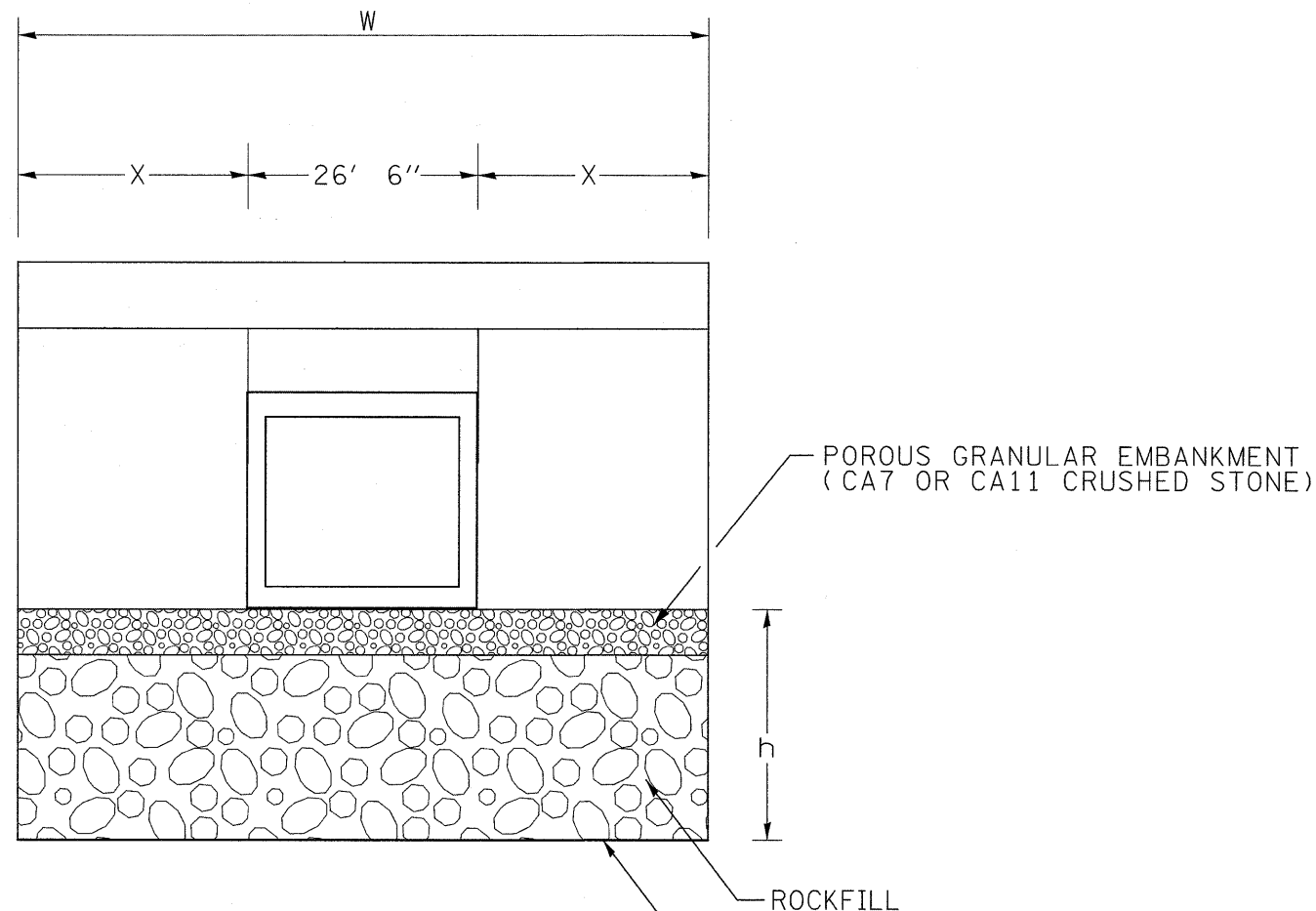
1. EXCEPT AS SPECIFIED IN THIS DETAIL, THE PLACEMENT AND COMPACTION OF BACKFILL SHALL BE IN ACCORDANCE WITH ARTICLE 502.10 OF THE STANDARD SPECIFICATIONS.
2. TRENCH BACKFILL SHALL BE COMPACTED BY EITHER METHOD 2 OR METHOD 3 SPECIFIED IN ARTICLE 550.07, OR IN ACCORDANCE WITH METHOD 1 SPECIFIED IN ARTICLE 550.07, EXCEPT THAT THE COMPACTED LIFTS SHALL NOT EXCEED 8" IN THICKNESS. TRENCH BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 95% OF STANDARD LAB DENSITY.

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

FILE NAME = \$FILEL\$	USER NAME = \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL: EXCAVATION AND BACKFILL FOR BOX CULVERTS		F.A.P. RTE. 522	SECTION (6G-WP50)BR	COUNTY HANCOCK	TOTAL SHEETS 41	SHEET NO. 32	
	PLOT SCALE = \$SCALE\$	DRAWN -	REVISED -		SCALE: N/A	SHEET NO. OF SHEETS	STA. N/A	TO STA. N/A	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			
	PLOT DATE = \$DATE\$	CHECKED -	REVISED -		CONTRACT NO. 68214							
		DATE -	REVISED -									



ALTERNATE I: FOR 12" TO 18" UNDERCUT



ALTERNATE II: FOR 18" TO 36" UNDERCUT

GENERAL NOTES:

1. Undercut any soil encountered below the box culvert to bedrock. At the Engineer's discretion, fill the undercut area(s) with:
 - a) Concrete per Article 502.05 of the Standard Specifications
 - b) Porous Granular Embankment and Rockfill as shown in Alternates I and II.
2. DEFINITIONS:
 - OD = Outside Diameter or outside width of box culvert
 - h = Depth of undercut (for precast box culverts, the upper 6" is included in the cost of culvert).
 - x = h or min. width specified in Sec. 542.04, which ever is greater for pipe culverts.
 - x = h or minimum 2 feet, which ever is greater for box culverts.
 - W = Width of undercut = 2x + OD
3. For undercuts greater than 36", use Alternate II with undercut treatments as directed by the District Geotechnical Engineer.

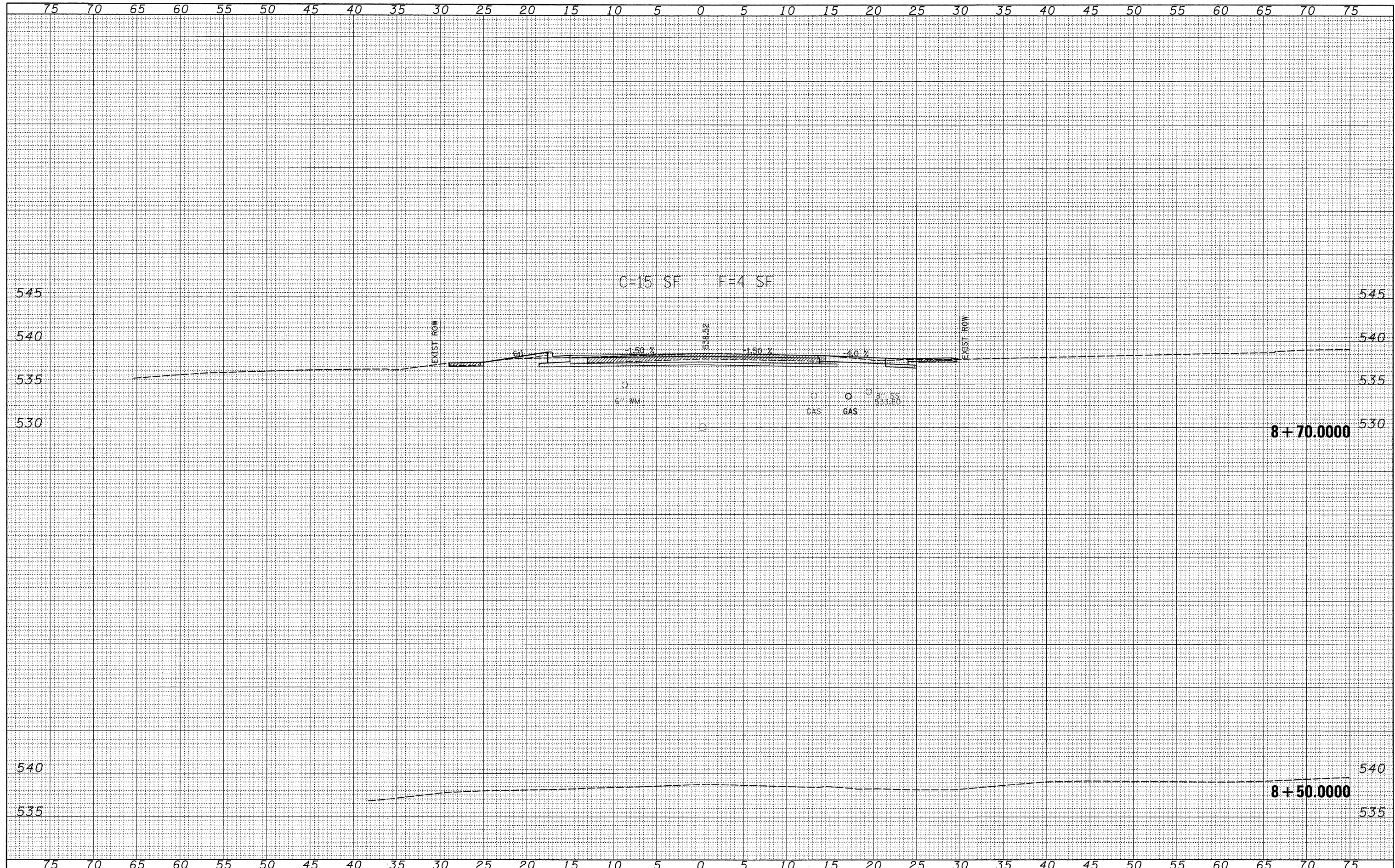
CULVERT LOCATION	UNDERCUT			
	DEPTH	WIDTH		
	h	x	OD	W
STA. 9+39	*			

* TO BE DETERMINED DURING CONSTRUCTION. SEE NOTE 1.

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

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

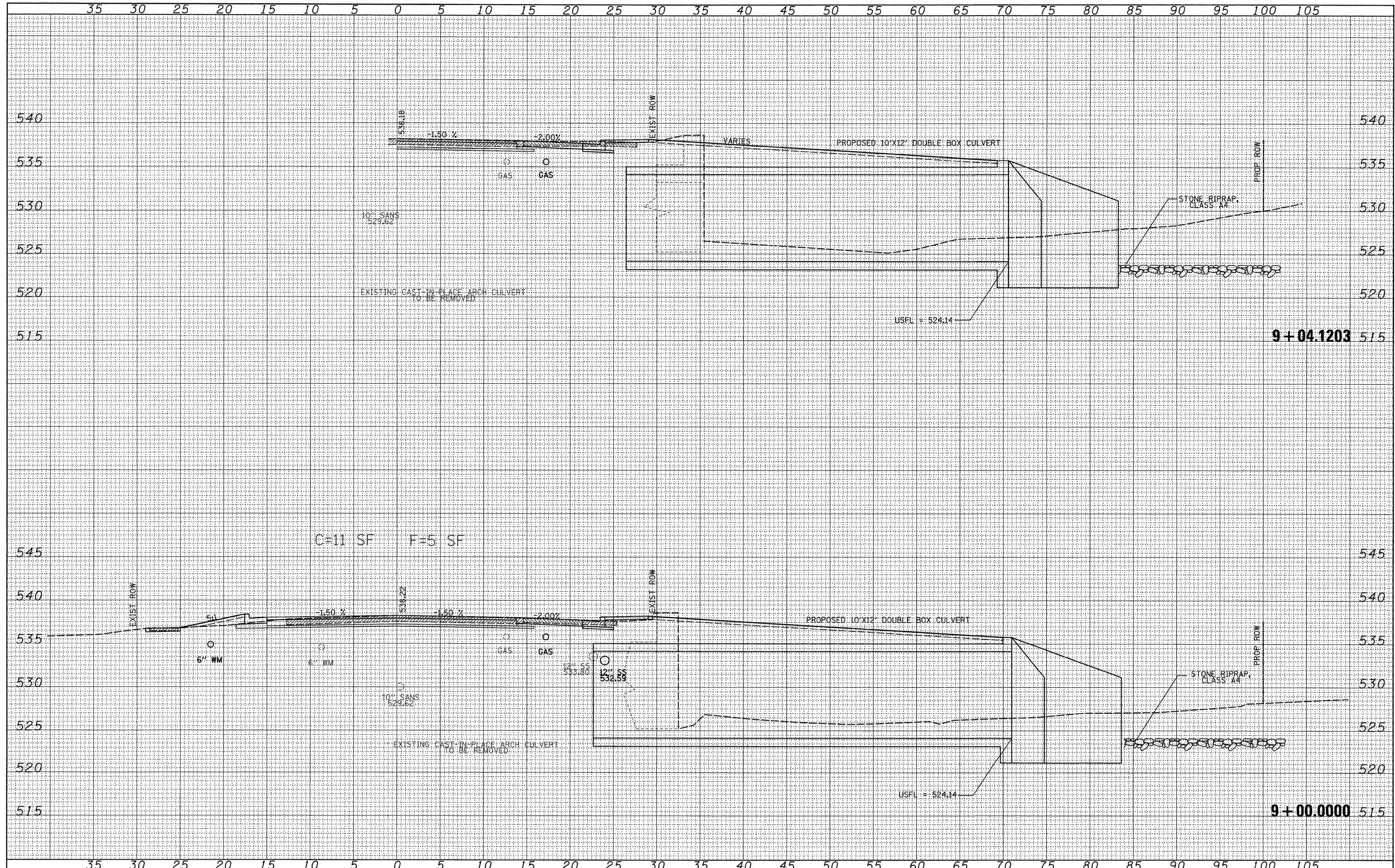
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 96 - CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN -	REVISED -			522	(66-WPSO)BR	HANCOCK	41	34	
		CHECKED -	REVISED -			CONTRACT NO. 68214					
		DATE -	REVISED -			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					
PLOT SCALE = #SCALE#		PLOT DATE = #DATE#		SCALE: 1"=5'		SHEET NO. 1 OF 4 SHEETS		STA. 8+50.000 TO STA. 8+70.000			

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	FLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

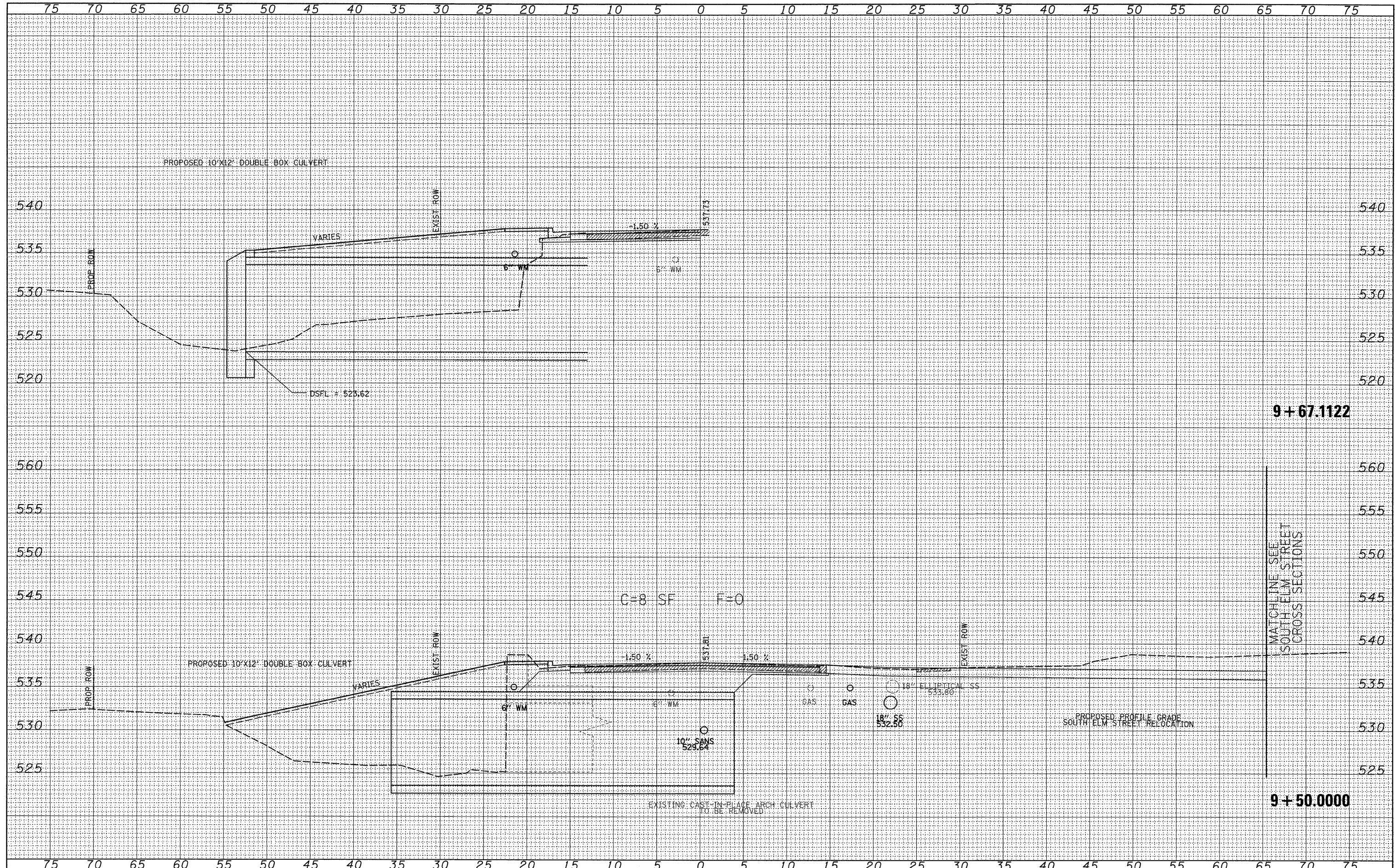
ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	TITLED	BY
NO.	TEMPLATE	
	AREAS CHECKED	



FILE NAME =	USER NAME = #USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 96 - CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN -	REVISED -			522	(6G-WPSO)BR	HANCOCK	41	35	
		CHECKED -	REVISED -			CONTRACT NO. 68214					
PLOT SCALE = #SCALE*		DATE -	REVISED -			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					
PLOT DATE = #DATE*						SCALE: 1"=5' SHEET NO. 2 OF 4 SHEETS STA. 9+00.0000 TO STA. 9+04.1203					

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS	
	CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	TITLED	BY
NO.	TEMPLATE	
	AREAS	
	CHECKED	



FILE NAME =	USER NAME = *USER*
FILEL	DESIGNED -
	DRAWN -
	CHECKED -
	DATE -
	REVIS
	REVIS
	REVIS
	REVIS

DESIGNED -	REVIS
DRAWN -	REVIS
CHECKED -	REVIS
DATE -	REVIS

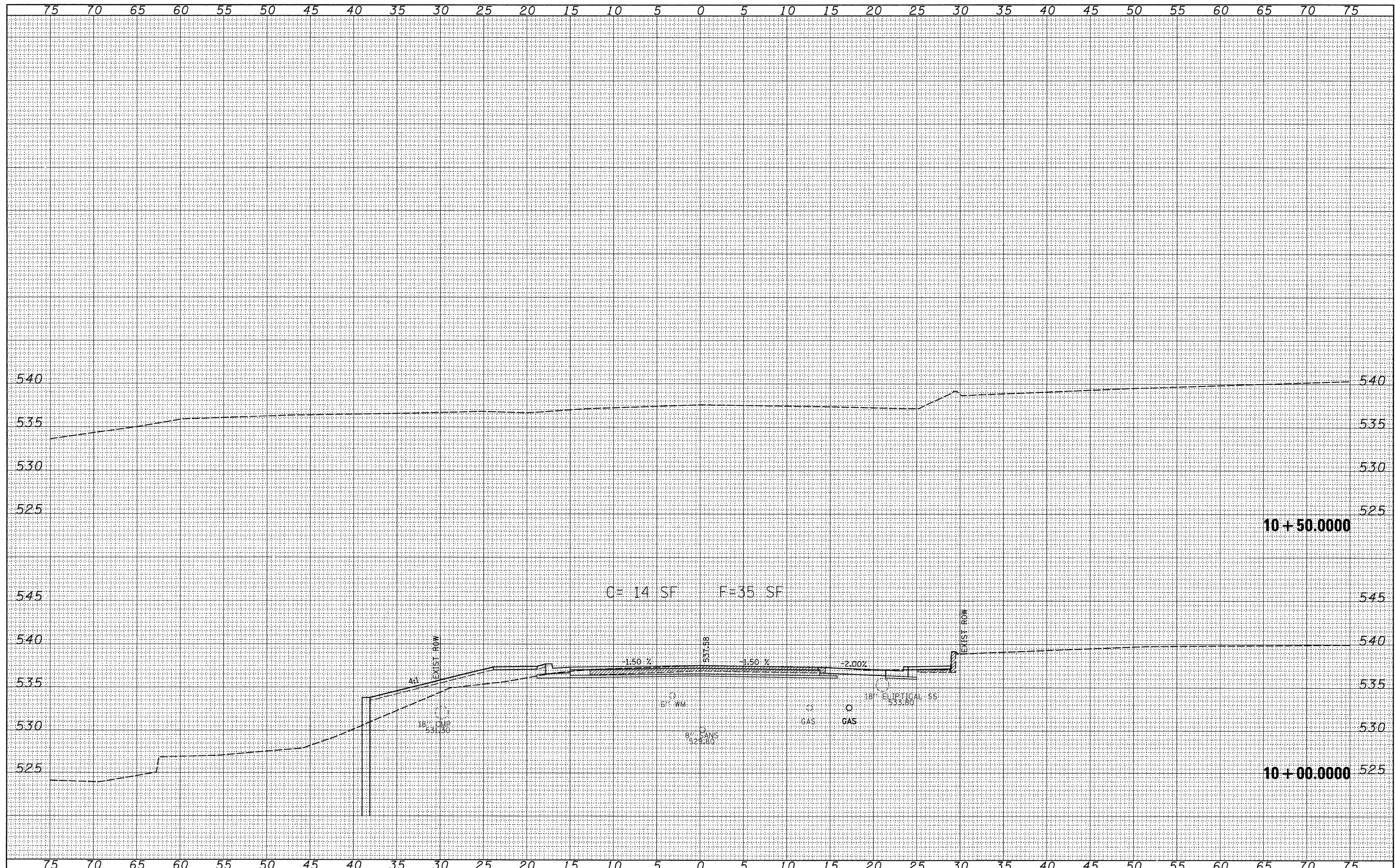
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 96 - CROSS SECTIONS	
SCALE: 1"=5'	SHEET NO. 3 OF 4 SHEETS
STA. 9+50.0000 TO STA. 9+67.1122	

F.A.P. RTE. 522	SECTION (6G-WPSO)BR	COUNTY HANCOCK	TOTAL SHEETS 41	SHEET NO. 36
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 68214		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	TITLED		
NO.	TEMPLATE		
	AREAS CHECKED		
	AREAS CHECKED		



FILE NAME =
#FILE#

USER NAME = #USER#
DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISIED -
REVISIED -
REVISIED -
REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

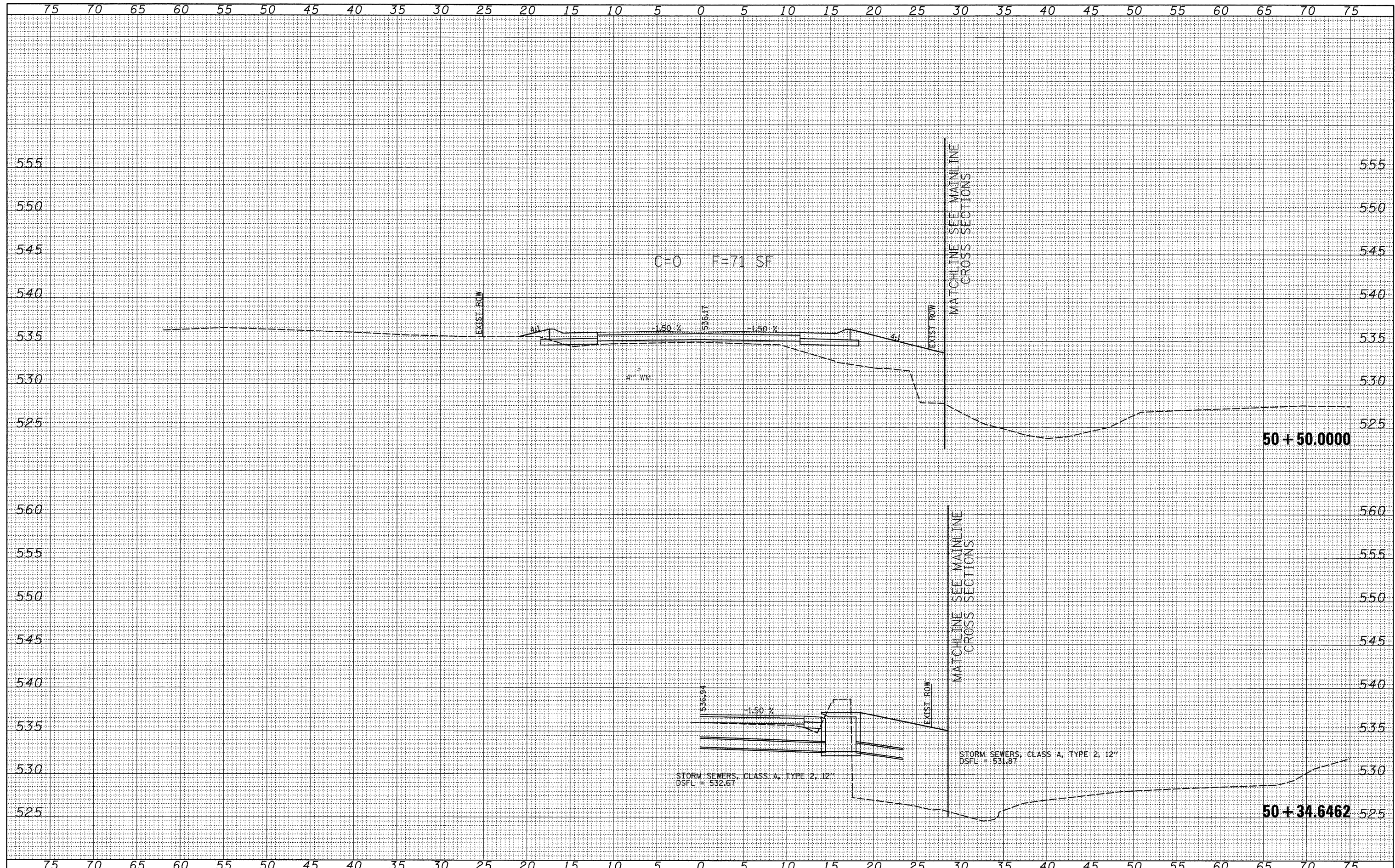
IL 96 - CROSS SECTIONS

SCALE: 1"=5' SHEET NO. 4 OF 4 SHEETS STA. 10+00.0000 TO STA. 10+50.0000

F.A.P. RTE. 522	SECTION (6G-WPS)BR	COUNTY HANCOCK	TOTAL SHEETS 41	SHEET NO. 37
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68214	

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
	TEMPLATE	
	AREAS CHECKED	



FILE NAME =
#FILE#

USER NAME = #USER#
DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

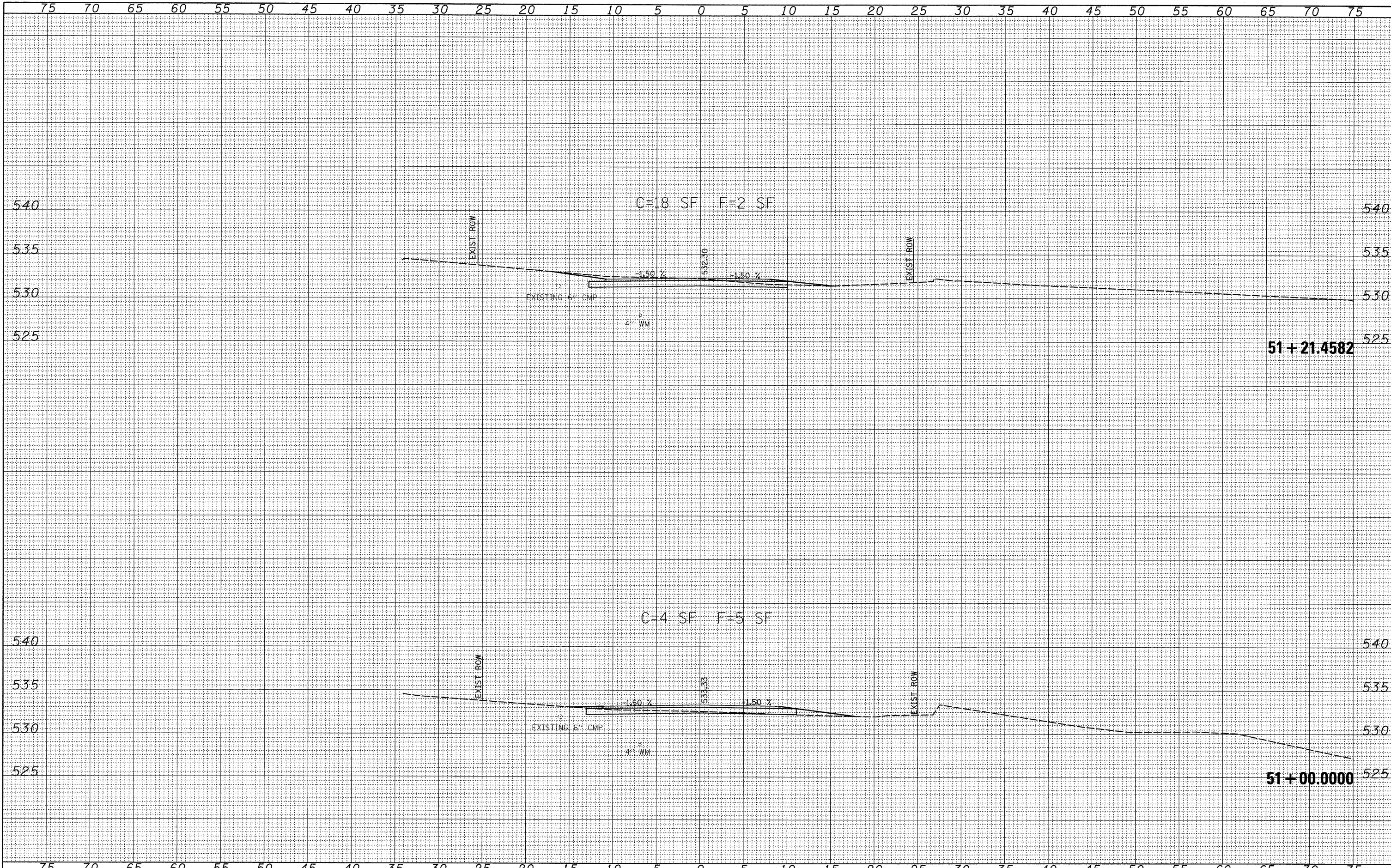
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

NORTH ELM STREET - CROSS SECTIONS
SCALE: 1"=5'
SHEET NO. 1 OF 2 SHEETS
STA. 50+34.6462 TO STA. 50+50.0000

F.A.P. RTE. 522	SECTION (6G-WP50)BR	COUNTY HANCOCK	TOTAL SHEETS 41	SHEET NO. 38
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 68214	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



FILE NAME =
#FILE#

USER NAME = #USER#
DESIGNED -
DRAWN -
PLOT SCALE = #SCALE#
PLOT DATE = #DATE#

REVISÉ -
REVISÉ -
REVISÉ -
REVISÉ -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

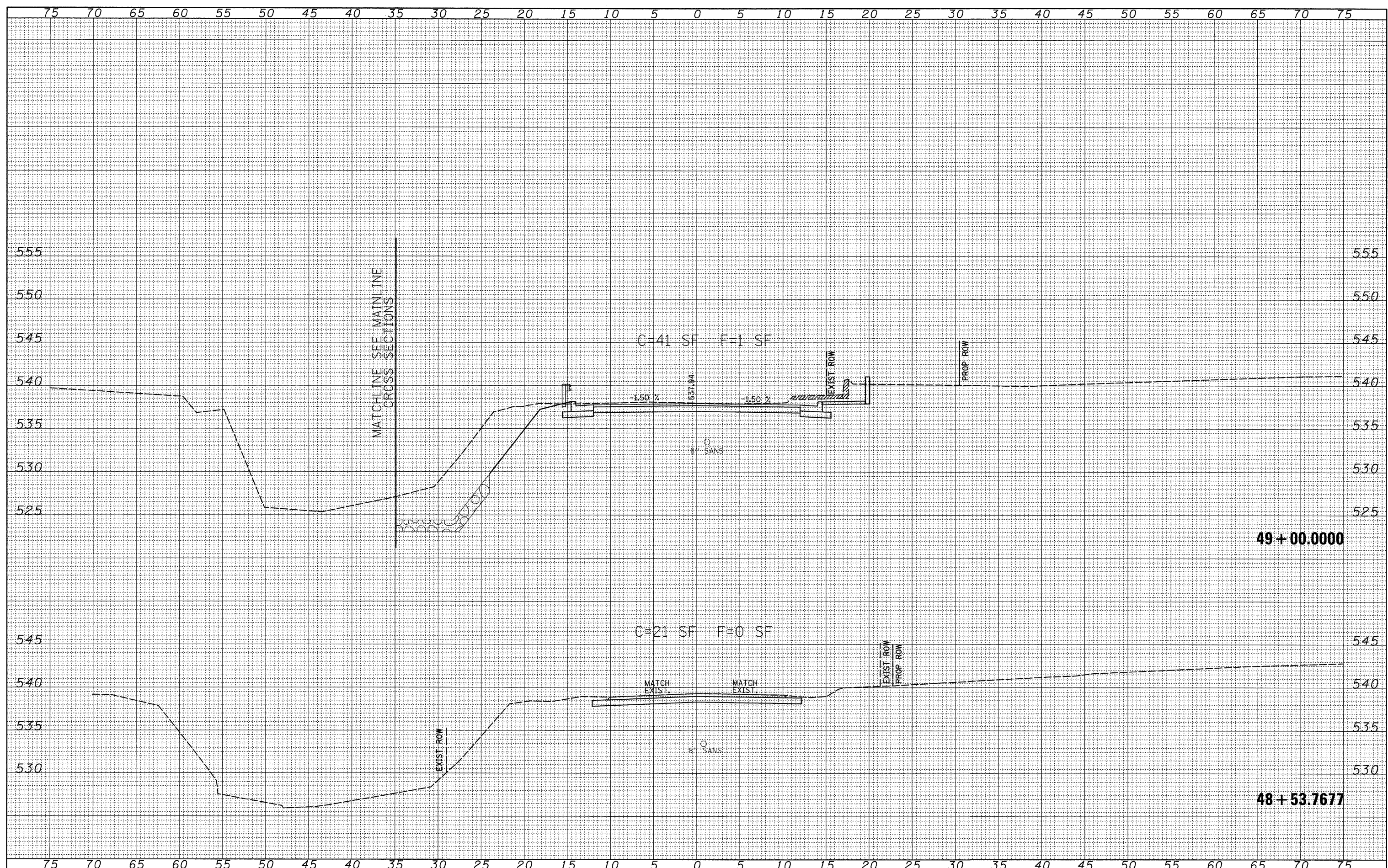
NORTH ELM STREET - CROSS SECTIONS

SCALE: 1"=5' SHEET NO. 2 OF 2 SHEETS STA. 51+00.0000 TO STA. 51+21.4582

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	(6G-WP50)BR	HANCOCK	41	39
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 68214		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE AREAS CHECKED		

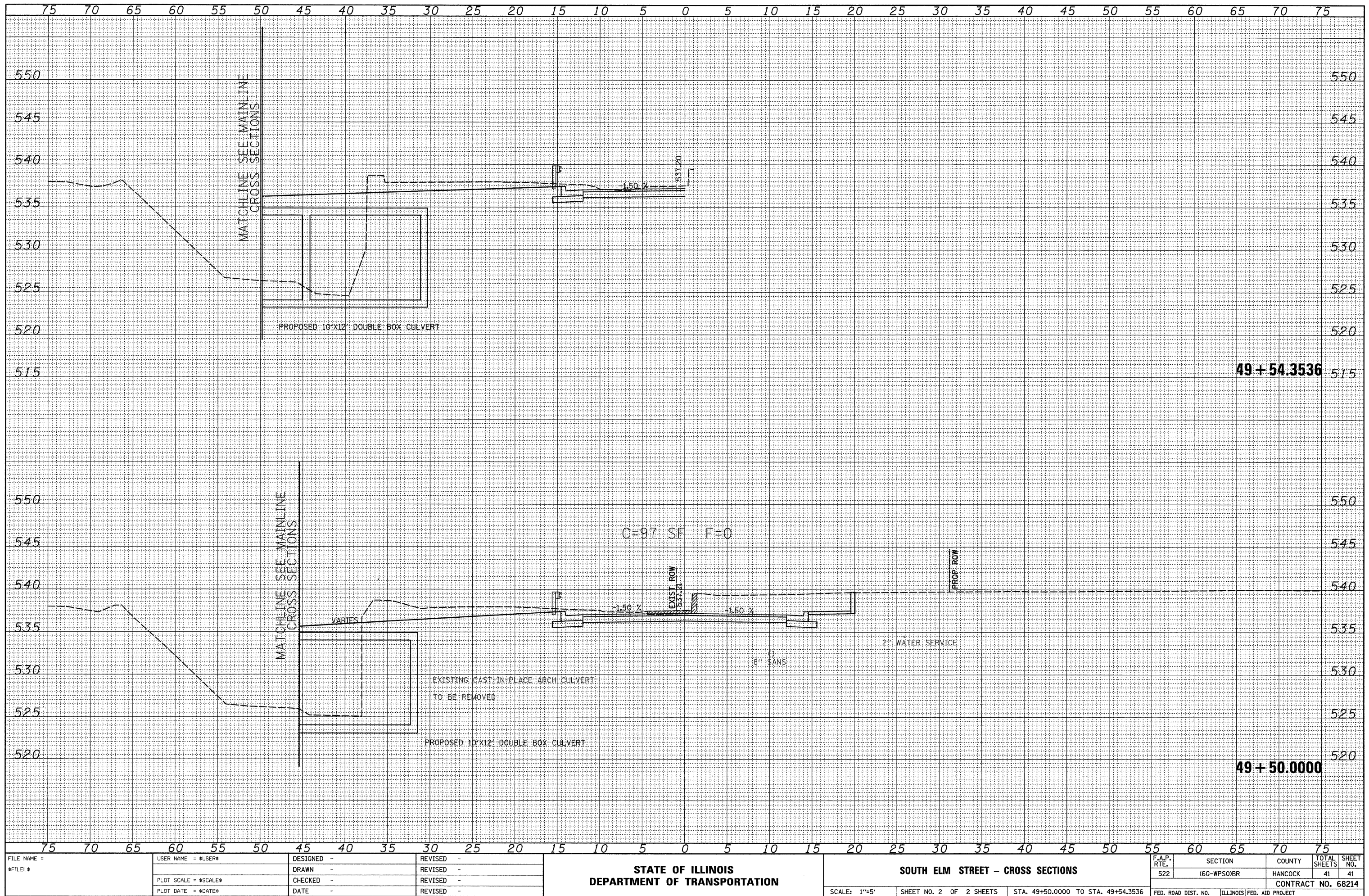
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE AREAS CHECKED		



FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOUTH ELM STREET - CROSS SECTIONS SCALE: 1"=5' SHEET NO. 1 OF 2 SHEETS STA. 48+53.7677 TO STA. 49+00.0000	F.A.P. RTE. 522	SECTION (6G-WPS)IBR	COUNTY HANCOCK	TOTAL SHEETS 41	SHEET NO. 40	
	DESIGNED -	REVISED -				FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT				
	DRAWN -	REVISED -									
	CHECKED -	REVISED -									
	DATE -	REVISED -									

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS
	CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS
	CHECKED



FILE NAME =	USER NAME = *USER*
*FILE#	DESIGNED -
	DRAWN -
	CHECKED -
	DATE -
	REVISOR -
	REVISION -
	REVISION -
	REVISION -

DESIGNED -	REVISOR -
DRAWN -	REVISION -
CHECKED -	REVISION -
DATE -	REVISION -

DESIGNED -	REVISOR -
DRAWN -	REVISION -
CHECKED -	REVISION -
DATE -	REVISION -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SOUTH ELM STREET - CROSS SECTIONS

SCALE: 1"=5' SHEET NO. 2 OF 2 SHEETS STA. 49+50.0000 TO STA. 49+54.3536

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	(66-WPSO)BR	HANCOCK	41	41
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			CONTRACT NO. 68214