

Southwest District

Steve Campbell, PE, District Engineer

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Missouri Department of Transportation

TO: File

FROM: Dorothy Halbrook

Senior Traffic Studies Specialist

Andrew Wall

Traffic Engineering Intern

DATE: June 26th, 2022

SUBJECT: Right and Left Turn Lane Study

US 60 at MO 97 Barry County

The purpose of this study is to determine whether the intersection of US 60 and MO 97 in Barry County meet the criteria in the EPG for the installation of any left or right turn lanes. The study has been completed in response to scoping of a project addressing adding turn lanes along US 60.

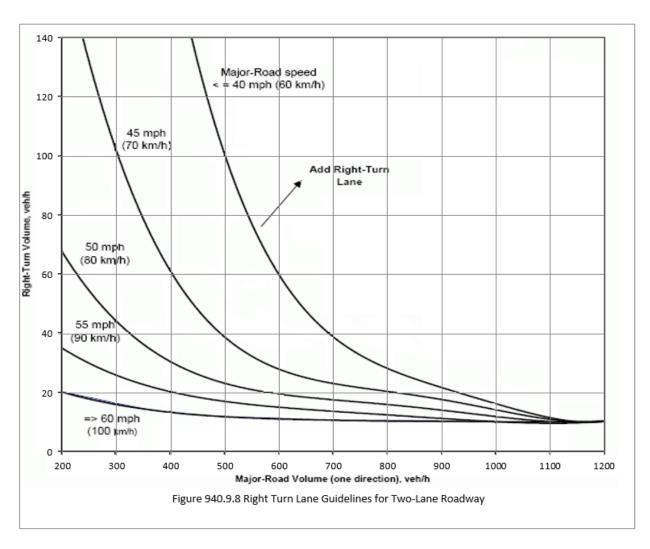
US 60 is a two-lane principal arterial with a speed limit of 65 MPH through the intersection of MO 97. The existing left turn lanes are for EB US 60 to SB MO 97 and for WB US 60 to NB MO 97. MO 97 is a two-lane major collector with a speed limit of 55 mph through the intersection of US 60. There are no existing turn lanes on this segment of MO 97. See the aerial below to see the existing conditions.





EASTBOUND US 60 RIGHT TURN LANE VOLUME WARRANT:

TRAFFIC VOLUME INFORMATION: a 13-hour traffic count was performed at the intersection of US 60 and MO 97 in August of 2021. The speed limit of US 60 at this intersection is 65 MPH. Traffic was counted from 6:00 AM to 7:00 PM. During this time, there were a total of 117 EB US 60 to NB MO 97 right turning vehicles. The total eastbound thru volume was 1870 vehicles. The right turn volume makes up 6.3% of the eastbound traffic on US 60. The peak right turning volume was 13 vehicles per hour out of 178 vehicles.



The blue diamond shows where the right turning volumes of the advancing traffic and the total advancing traffic volumes intersect for each hour of the traffic count. Less than 200 vehicles turned on to MO 97, so there are no diamonds shown on the chart. Therefore, the intersection falls **below** the 60 MPH line for at two-lane road, and therefore, the volume warrant for a EB right turn lane is **not met**.

Below is the relevant crash history for the intersection of US 60 and MO 97 from January 1st, 2017 to December 31, 2021. The intersection showed 0 relevant crashes at this location.

No. of Crashes 0 No. of Days 1825

Entering AADT 4960 (2021)

An intersection crash rate can be calculated using the formula below.

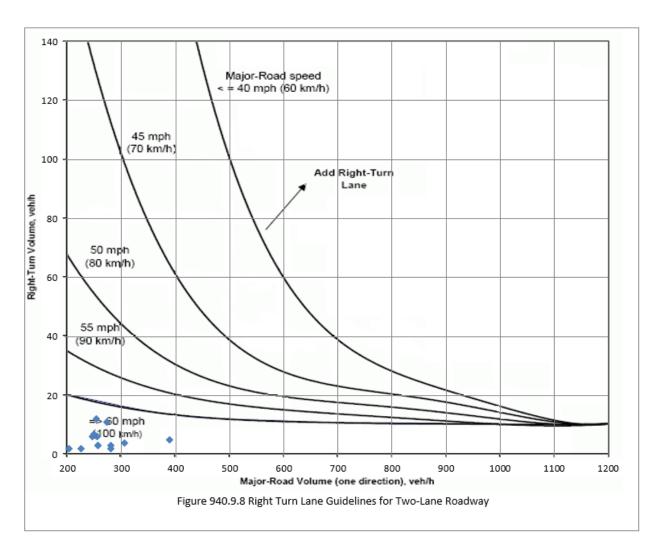
CR = (number of crashes x 10E6)/No. of days x Entering AADT) CR = $(0 \times 10E6)/(1825 \times 4960) = 0$

US 60								
Severity Rating	2017	2018	2019	2020	2021	Total		
Fatality	0	0	0	0	0	0		
Disabling Injury	0	0	0	0	0	0		
Minor Injury	0	0	0	0	0	0		
Property Damage Only	0	0	0	0	0	0		
Total	0	0	0	0	0	0		

	US 60							
Crash Class	2017	2018	2019	2020	2021	Total		
Rear End	0	0	0	0	0	0		
Total	0	0	0	0	0	0		

WESTBOUND US 60 RIGHT TURN LANE VOLUME WARRANT:

TRAFFIC VOLUME INFORMATION: a 13-hour traffic count was performed at the intersection of US 60 and MO 97 in August of 2021. The speed limit of US 60 at this intersection is 65 MPH. Traffic was counted from 6:00 AM to 7:00 PM. During this time, there were a total of 559 WB US 60 to NB MO 97 right turning vehicles. The total westbound thru volume was 2416 vehicles. The right turn volume makes up 23.1% of the westbound traffic on US 60. The peak right turning volume was 66 vehicles per hour out of 254 vehicles.



The blue diamond shows where the right turning volumes of the advancing traffic and the total advancing traffic volumes intersect for each hour of the traffic count. Therefore, the intersection falls **below** the 60 MPH line for at two-lane road, and therefore the volume warrant for a EB right turn lane is **not met**.

Below is the relevant crash history for the intersection of US 60 and MO 97 from January 1st, 2017 to December 31, 2021. The intersection showed 1 relevant crash at this location.

No. of Crashes 1 No. of Days 1825

Entering AADT 4833 (2021)

An intersection crash rate can be calculated using the formula below.

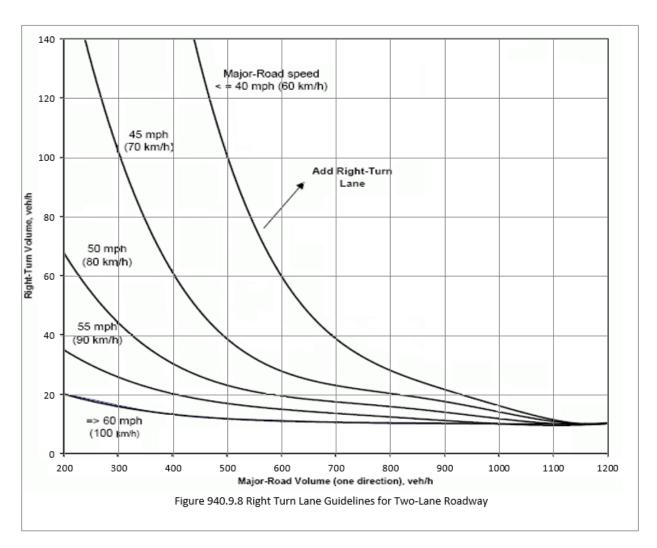
CR = (number of crashes x 10E6)/No. of days x Entering AADT) CR = $(1 \times 10E6)/(1825 \times 4833) = 1.13$

US 60								
Severity Rating	2017	2018	2019	2020	2021	Total		
Fatality	0	0	0	0	0	0		
Disabling Injury	0	0	0	0	0	0		
Minor Injury	0	0	0	1	0	1		
Property Damage Only	0	0	0	0	0	0		
Total	0	0	0	1	0	1		

US 60							
Crash Class	2017	2018	2019	2020	2021	Total	
Angle	0	0	0	1	0	1	
Total	0	0	0	1	0	1	

NORTHBOUND MO 97 RIGHT TURN LANE VOLUME WARRANT:

TRAFFIC VOLUME INFORMATION: a 13-hour traffic count was performed at the intersection of US 60 and MO 97 in August of 2021. The speed limit of MO 97 at this intersection is 55 MPH. Traffic was counted from 6:00 AM to 7:00 PM. During this time, there were a total of 254 NB MO 97 to EB US 60 right turning vehicles. The total northbound thru volume was 575 vehicles. The right turn volume makes up 44.2% of the northbound traffic on MO 97. The peak right turning volume was 33 vehicles per hour out of 66 vehicles.



The total advancing traffic volumes intersect for each hour of the traffic count never reach the 200 veh/h required to show on this chart. Therefore, the intersection falls **below** the 55 MPH line for at two-lane road, and therefore the volume warrant for a NB right turn lane is **not met**.

Below is the relevant crash history for the intersection of US 60 and MO 97 from January 1st, 2017 to December 31, 2021. The intersection showed 0 relevant crashes at this location.

No. of Crashes 0
No. of Days 1825
Entering AADT 360 (2021)

An intersection crash rate can be calculated using the formula below.

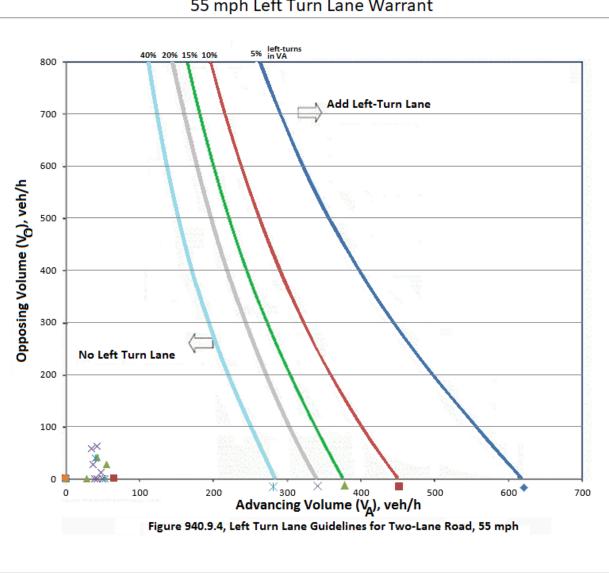
CR = (number of crashes x 10E6)/No. of days x Entering AADT) $CR = (0 \times 10E6)/(1825 \times 360) = 0.00$

MO 97								
Severity Rating	2017	2018	2019	2020	2021	Total		
Fatality	0	0	0	0	0	0		
Disabling Injury	0	0	0	0	0	0		
Minor Injury	0	0	0	0	0	0		
Property Damage Only	0	0	0	0	0	0		
Total	0	0	0	0	0	0		

MO 97							
Crash Class	2017	2018	2019	2020	2021	Total	
Angle	0	0	0	0	0	0	
Total	0	0	0	0	0	0	

NORTHBOUND MO 97 LEFT TURN LANE VOLUME WARRANT:

TRAFFIC VOLUME INFORMATION: a 13-hour traffic count was performed at the intersection of US 60 and MO 97 in August of 2021. The speed limit of MO 97 at this intersection is 55 MPH. Traffic was counted from 6:00 AM to 7:00 PM. During this time, there were a total of 92 NB MO 97 to WB US 60 right turning vehicles. The total northbound thru volume was 575 vehicles. The left turn volume makes up 16.0% of the northbound traffic on MO 97. The peak left turning volume was 12 vehicles per hour out of 53 vehicles.



55 mph Left Turn Lane Warrant

The dots show where the left turning volumes of the advancing traffic and the total opposing traffic volumes intersect for each hour of the traffic count. The dots fall below the appropriate line, and therefore the volume warrant for a NB left turn lane is **not met**.

Below is the relevant crash history for the intersection of US 60 and MO 97 from January 1st, 2017 to December 31, 2021. The intersection showed 0 relevant crashes at this location.

No. of Crashes 0
No. of Days 1825
Entering AADT 360 (2021)

An intersection crash rate can be calculated using the formula below.

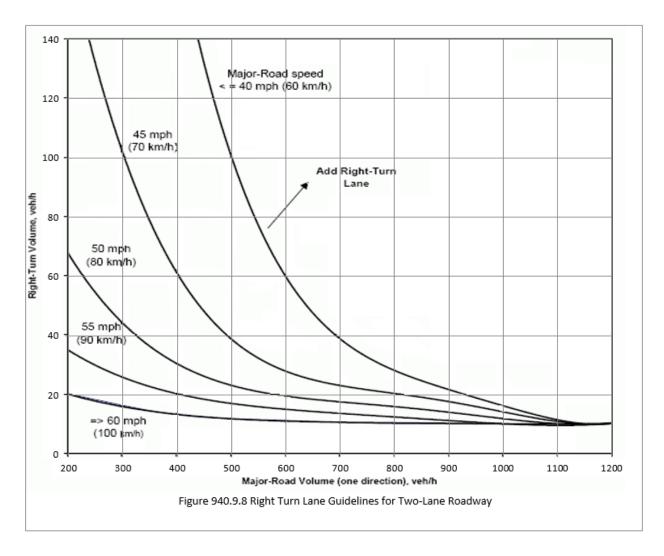
CR = (number of crashes x 10E6)/No. of days x Entering AADT) $CR = (0 \times 10E6)/(1825 \times 360) = 0.00$

MO 97							
Severity Rating	2017	2018	2019	2020	2021	Total	
Fatality	0	0	0	0	0	0	
Disabling Injury	0	0	0	0	0	0	
Minor Injury	0	0	0	0	0	0	
Property Damage Only	0	0	0	0	0	0	
Total	0	0	0	0	0	0	

MO 97							
Crash Class	2017	2018	2019	2020	2021	Total	
Angle	0	0	0	0	0	0	
Total	0	0	0	0	0	0	

SOUTHBOUND MO 97 RIGHT TURN LANE VOLUME WARRANT:

TRAFFIC VOLUME INFORMATION: a 13-hour traffic count was performed at the intersection of US 60 and MO 97 in August of 2021. The speed limit of MO 97 at this intersection is 55 MPH. Traffic was counted from 6:00 AM to 7:00 PM. During this time, there were a total of 256 SB MO 97 to WB US 60 right turning vehicles. The total southbound thru volume was 1007 vehicles. The right turn volume makes up 25.4% of the southbound traffic on MO 97. The peak right turning volume was 28 vehicles per hour out of 93 vehicles.



The total advancing traffic volumes intersect for each hour of the traffic count never reach the 200 veh/h required to show on this chart. Therefore, the intersection falls **below** the 55 MPH line for at two-lane road, and therefore the volume warrant for a EB right turn lane is **not met**.

Below is the relevant crash history for the intersection of US 60 and MO 97 from January 1st, 2017 to December 31, 2021. The intersection showed 0 relevant crashes at this location.

No. of Crashes 0 No. of Days 1825

Entering AADT 1009 (2021)

An intersection crash rate can be calculated using the formula below.

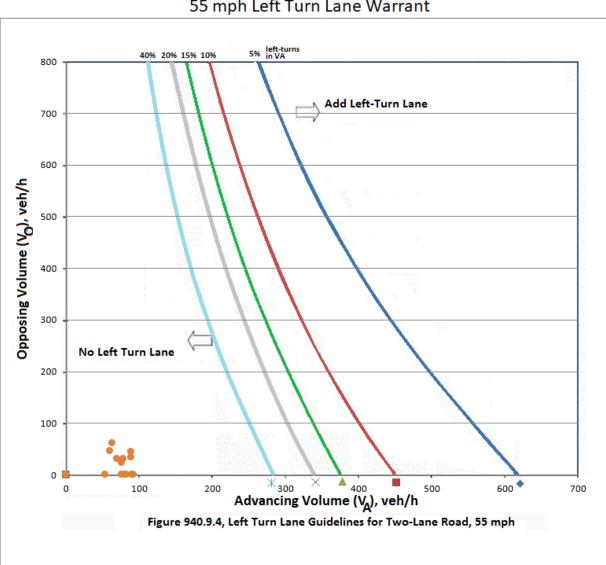
CR = (number of crashes x 10E6)/No. of days x Entering AADT) CR = $(0 \times 10E6)/(1825 \times 1009) = 0.00$

MO 97								
Severity Rating	2017	2018	2019	2020	2021	Total		
Fatality	0	0	0	0	0	0		
Disabling Injury	0	0	0	0	0	0		
Minor Injury	0	0	0	0	0	0		
Property Damage Only	0	0	0	0	0	0		
Total	0	0	0	0	0	0		

MO 97							
Crash Class	2017	2018	2019	2020	2021	Total	
Angle	0	0	0	0	0	0	
Total	0	0	0	0	0	0	

SOUTHBOUND MO 97 LEFT TURN LANE VOLUME WARRANT:

TRAFFIC VOLUME INFORMATION: a 13-hour traffic count was performed at the intersection of US 60 and MO 97 in August of 2021. The speed limit of MO 97 at this intersection is 55 MPH. Traffic was counted from 6:00 AM to 7:00 PM. During this time, there were a total of 528 SB MO 97 to EB US 60 right turning vehicles. The total southbound thru volume was 1007 vehicles. The left turn volume makes up 52.4% of the southbound traffic on MO 97. The peak left turning volume was 53 vehicles per hour out of 89 vehicles.



55 mph Left Turn Lane Warrant

The dots show where the left turning volumes of the advancing traffic and the total opposing traffic volumes intersect for each hour of the traffic count. The dots fall below the appropriate line, and therefore the volume warrant for a NB left turn lane is **not met**.

Below is the relevant crash history for the intersection of US 60 and MO 97 from January 1st, 2017 to December 31, 2021. The intersection showed 0 relevant crashes at this location.

No. of Crashes 0
No. of Days 1825
Entering AADT 360 (2021)

An intersection crash rate can be calculated using the formula below.

CR = (number of crashes x 10E6)/No. of days x Entering AADT) $CR = (0 \times 10E6)/(1825 \times 360) = 0.00$

MO 97								
Severity Rating	2017	2018	2019	2020	2021	Total		
Fatality	0	0	0	0	0	0		
Disabling Injury	0	0	0	0	0	0		
Minor Injury	0	0	0	0	0	0		
Property Damage Only	0	0	0	0	0	0		
Total	0	0	0	0	0	0		

The crash classes are shown in the following table.

MO 97							
Crash Class	2017	2018	2019	2020	2021	Total	
Angle	0	0	0	0	0	0	
Total	0	0	0	0	0	0	

COMMENTS:

There is not a sufficient crash history and traffic volumes to warrant the installation of any right or left turn lanes on US 60 at MO 97 currently. There are 12 (twelve) right-angle crashes here due to traffic trying to turn left from EB US 60 onto NB MO 97, from NB MO 97 onto WB US 60, from SB MO 97 to WB US 60 or crossing MO 97 from either direction. These crashes are not correctable by adding turn lanes. One crash could be corrected by a right turn lane from WB US 60 to NB MO 97. It is not recommended to add any turn lanes at this time. However, due to the number of crashes, it is recommended to study the possibility of adding a roundabout with a future project.



Southwest District

Steve Campbell, PE, District Engineer

3025 East Kearney Street P.O. Box 868 Springfield, Missouri 65801 417.895.7600

Missouri Department of Transportation

TO: File

FROM: Dorothy Halbrook

Senior Traffic Studies Specialist

DATE: June 22nd, 2022

SUBJECT: Left and Right Turn Lane Study

US 60 at Hammer Rd Newton County

The purpose of this study is to determine whether the intersection of US 60 and Hammer Rd in Newton County meet the criteria in the EPG for the installation of any left or right turn lanes. The study has been completed in response to scoping of a project addressing adding turn lanes along US 60.

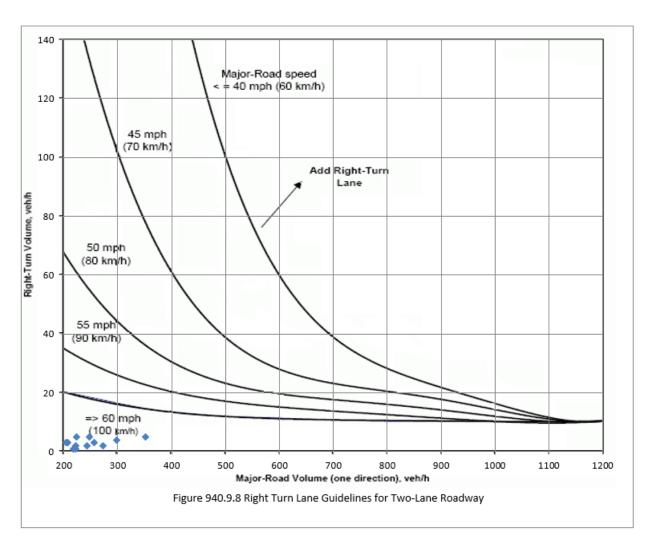
US 60 is a super two-lane principal arterial with a speed limit of 60 MPH through the intersection of Hammer Rd. Hammer Rd is a city road with a speed limit of 45 mph through the intersection of US 60. There are no existing turn lanes on this segment of Hammer Rd. See the aerial below to see the existing conditions.





EASTBOUND US 60 RIGHT TURN LANE VOLUME WARRANT:

TRAFFIC VOLUME INFORMATION: a 13-hour traffic count was performed at the intersection of US 60 and Hammer Rd in August of 2021. The speed limit of US 60 at this intersection is 60 MPH. Traffic was counted from 6:00 AM to 7:00 PM. During this time, there were a total of 40 EB US 60 to SB Hammer Rd right turning vehicles. The total eastbound thru volume was 3157 vehicles. The right turn volume makes up 1.3% of the eastbound traffic on US 60. The peak right turning volume was 5 vehicles per hour out of 351 vehicles.



The blue diamond shows where the right turning volumes of the advancing traffic and the total advancing traffic volumes intersect for each hour of the traffic count. Therefore, the intersection falls **below** the 60 MPH line for a two-lane road, and therefore the volume warrant for a EB right turn lane is **not met**.

Below is the relevant crash history for the intersection of US 60 and Hammer Rd from January 1st, 2016 to December 31, 2020. The intersection showed 0 relevant crashes at this location.

No. of Crashes 1 No. of Days 1825

Entering AADT 4926 (2021)

An intersection crash rate can be calculated using the formula below.

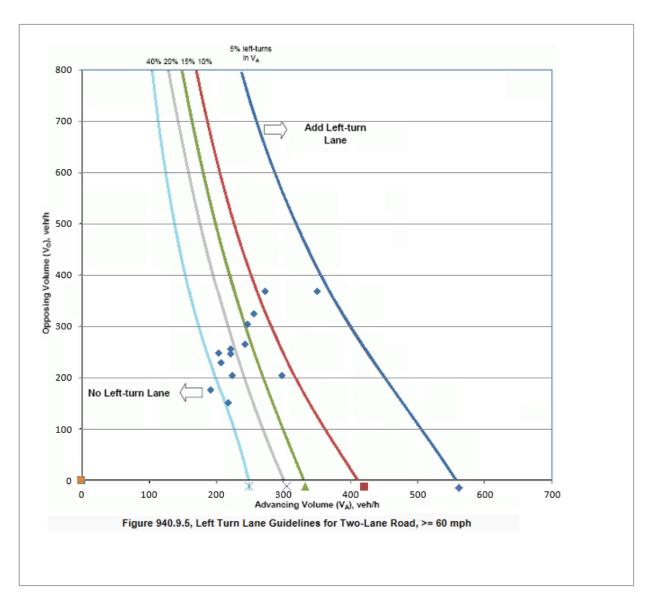
CR = (number of crashes x 10E6)/No. of days x Entering AADT) CR = $(1 \times 10E6)/(1825 \times 4926) = 1.11$

	US 60												
Severity Rating	2016	2017	2018	2019	2020	2021	Total						
Fatality	0	0	0	0	0	0	0						
Disabling Injury	0	0	0	0	0	0	0						
Minor Injury	0	0	0	0	0	0	0						
Property Damage Only	0	0	1	0	0	0	1						
Total	0	0	1	0	0	0	1						

	US 60												
Crash Class	2016	2017	2018	2019	2020	2021	Total						
Right Turn	0	0	0	0	1	0	1						
Total	0	0	0	0	1	0	1						

EASTBOUND US 60 LEFT TURN LANE VOLUME WARRANT:

TRAFFIC VOLUME INFORMATION: a 13-hour traffic count was performed at the intersection of US 60 and Hammer Rd in August of 2021. The speed limit of US 60 at this intersection is 60 MPH. Traffic was counted from 6:00 AM to 7:00 PM. During this time, there were a total of 36 EB US 60 to NB Hammer Rd left turning vehicles. The total eastbound thru volume was 3157 vehicles. The left turn volume makes up 1.1% of the eastbound traffic on US 60. The peak left turning volume was 9 vehicles per hour out of 298 vehicles.



The blue diamond shows where the left turning volumes of the advancing traffic and the total advancing traffic volumes intersect for each hour of the traffic count. Therefore, the blue diamonds are **left** of the 5% line for at two-lane road, and therefore the volume warrant for a EB left turn lane is **not met**.

Below is the relevant crash history for the intersection of US 60 and Hammer Rd from January 1st, 2016 to December 31, 2020. The intersection showed 0 relevant crashes at this location.

No. of Crashes 0 No. of Days 1825

Entering AADT 4926 (2021)

An intersection crash rate can be calculated using the formula below.

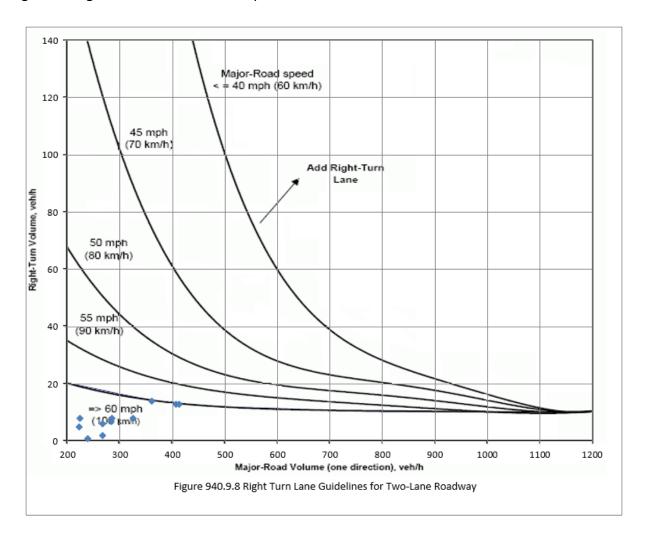
CR = (number of crashes x 10E6)/No. of days x Entering AADT) CR = $(0 \times 10E6)/(1825 \times 4926) = 0$

	US 60												
Severity Rating	2016	2017	2018	2019	2020	2021	Total						
Fatality	0	0	0	0	0	0	0						
Disabling Injury	0	0	0	0	0	0	0						
Minor Injury	0	0	0	0	0	0	0						
Property Damage Only	0	0	0	0	0	0	0						
Total	0	0	0	0	0	0	0						

	US 60												
Crash Class	2016	2017	2018	2019	2020	2021	Total						
Right Turn	0	0	0	0	0	0	0						
Total	0	0	0	0	0	0	0						

WESTBOUND US 60 RIGHT TURN LANE VOLUME WARRANT:

TRAFFIC VOLUME INFORMATION: a 13-hour traffic count was performed at the intersection of US 60 and Hammer Rd in August of 2021. The speed limit of US 60 at this intersection is 60 MPH. Traffic was counted from 6:00 AM to 7:00 PM. During this time, there were a total of 66 WB US 60 to NB Hammer Rd right turning vehicles. The total westbound thru volume was 3470 vehicles. The right turn volume makes up 1.9% of the westbound traffic on US 60. The peak right turning volume was 12 vehicles per hour out of 253 vehicles.



The blue diamond shows where the right turning volumes of the advancing traffic and the total advancing traffic volumes intersect for each hour of the traffic count. Therefore, the intersection falls **above** the 60 MPH line for a two-lane road, and therefore the volume warrant for a WB right turn lane is **met**.

Below is the relevant crash history for the intersection of US 60 and Hammer Rd from January 1st, 2016 to December 31, 2020. The intersection showed 3 relevant crashes at this location.

No. of Crashes 3 No. of Days 1825

Entering AADT 4833 (2021)

An intersection crash rate can be calculated using the formula below.

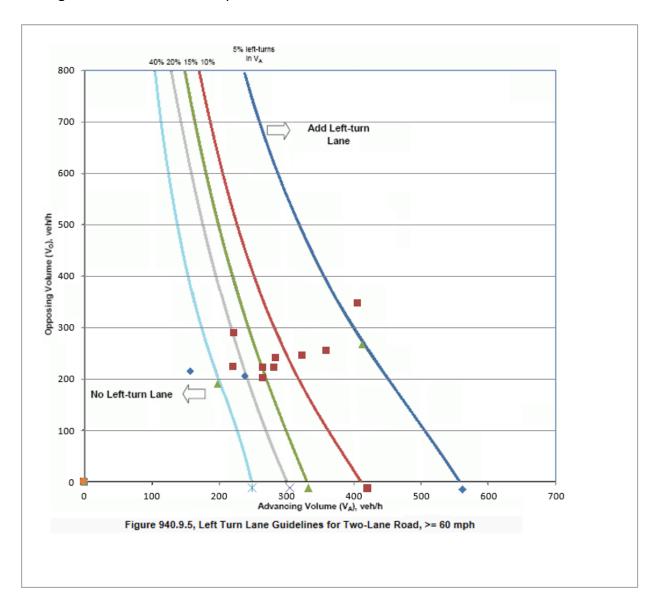
CR = (number of crashes x 10E6)/No. of days x Entering AADT) $CR = (3 \times 10E6)/(1825 \times 4833) = 0.34$

	US 60												
Severity Rating	2016	2017	2018	2019	2020	2021	Total						
Fatality	0	0	0	0	0	0	0						
Disabling Injury	0	0	0	0	0	1	1						
Minor Injury	1	0	0	0	0	0	1						
Property Damage Only	1	0	0	0	1	1	3						
Total	2	0	0	0	1	2	5						

	US 60												
Crash Class	2016	2017	2018	2019	2020	2021	Total						
Out of Control	1	0	0	0	0	0	1						
Rear End	1	0	1	0	0	2	4						
Total	2	0	1	0	0	2	5						

WESTBOUND US 60 LEFT TURN LANE VOLUME WARRANT:

TRAFFIC VOLUME INFORMATION: a 13-hour traffic count was performed at the intersection of US 60 and Hammer Rd in August of 2021. The speed limit of US 60 at this intersection is 60 MPH. Traffic was counted from 6:00 AM to 7:00 PM. During this time, there were a total of 294 WB US 60 to SB Hammer Rd left turning vehicles. The total westbound thru volume was 3642 vehicles. The left turn volume makes up 8.1% of the westbound traffic on US 60. The peak left turning volume was 45 vehicles per hour out of 413 vehicles.



The red square shows where the left turning volumes of the advancing traffic and the total advancing traffic volumes intersect for each hour of the traffic count. Therefore, the intersection falls **right** of the 10% line for at two-lane road, and therefore the volume warrant for a WB left turn lane is **met**.

Below is the relevant crash history for the intersection of US 60 and Hammer Rd from January 1st, 2016 to December 31, 2020. The intersection showed 0 relevant crashes at this location.

No. of Crashes 0 No. of Days 1825

Entering AADT 4833 (2021)

An intersection crash rate can be calculated using the formula below.

CR = (number of crashes x 10E6)/No. of days x Entering AADT) CR = $(0 \times 10E6)/(1825 \times 4926) = 0$

	US 60												
Severity Rating	2016	2017	2018	2019	2020	2021	Total						
Fatality	0	0	0	0	0	0	0						
Disabling Injury	0	0	0	0	0	0	0						
Minor Injury	0	0	0	0	0	0	0						
Property Damage Only	0	0	0	0	0	0	0						
Total	0	0	0	0	0	0	0						

The crash classes are shown in the following table.

	US 60												
Crash Class	2016	2017	2018	2019	2020	2021	Total						
Right Turn	0	0	0	0	0	0	0						
Total	0	0	0	0	0	0	0						

COMMENTS:

There were 3 (three) crashes correctable by the addition of a right turn lane at the intersection from January 1, 2016 to December 31, 2020. The turning movement counts did meet the minimum volume criteria for the westbound right turning and left turning movement. The turning movement counts did not meet the minimum volume criteria for the eastbound right turning and left turning movements. **Therefore, it is recommended that both westbound right and left turn lanes to be added with a future project.**

Your Company Name Here This is your address Your City, State, Zip Code

Your Tagline Here

File Name: 0216_US60_Hammer_August2021

Site Code : 0216 Start Date : 8/25/2021

Page No : 1

Groups Printed- All Vehicles (no classification)

Groups Printed- All Verticles (no diassinication)																					
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Start Time	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru		U-Turn	App. Total	Int. Total
06:00 AM	1	2	3	0	6	1	28	1	0	30	4	0	0	0	4	0	35	0	0	35	75
06:15 AM	0	0	1	0	1	0	35	0	0	35	5	1	0	0	6	0	47	0	0	47	89
06:30 AM	1	0	1	0	2	1	44	2	0	47	5	2	1	0	8	0	69	1	0	70	127
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06:45 AM	1_	1_	1_	0	3	2	40	4	0	46	8	2	2	0	12	1	64	1	0	66	127
Total	3	3	6	0	12	4	147	7	0	158	22	5	3	0	30	1	215	2	0	218	418
· ·																					
07:00 AM	3	0	1	0	4	2	54	7	0	63	8	0	2	0	10	1	65	2	0	68	145
	1	0	1	-	1			-	-			-		-		1			-		
07:15 AM	•	1	4	0	6	0	50	4	0	54	10	5	2	0	17	0	61	4	0	65	142
07:30 AM	2	0	7	0	9	2	51	1	0	54	9	7	1	0	17	0	75	2	0	77	157
07:45 AM	1	3	3	0	7	4	42	6	0	52	11	1	4	0	16	3	84	1	0	88	163
Total	7	4	15	0	26	8	197	18	0	223	38	13	9	0	60	4	285	9	0	298	607
Total	,	4	13	U	20	O	131	10	U	223	30	13	9	U	00	4	200	9	U	230	007
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08:00 AM	0	2	1	0	3	1	50	8	0	59	10	2	0	0	12	2	56	0	0	58	132
08:15 AM	0	1	1	0	2	1	34	5	0	40	8	3	1	0	12	0	52	1	0	53	107
08:30 AM	0	3	0	0	3	1	52	5	0	58	5	2	1	0	8	0	27	1	0	28	97
08:45 AM	4	2	2	0	5	•	36	_	0	41	5	4	0	0	6	2	51	0	0		
						2		3												53	105
Total	1	8	4	0	13	5	172	21	0	198	28	8	2	0	38	4	186	2	0	192	441
09:00 AM	1	0	2	0	3	2	54	3	0	59	7	3	2	0	12	2	52	0	0	54	128
09:15 AM	Ö	2	1	0	3	1	57	5	0	63	3	2	2	0	7	1	52	1	0	54	127
	_		:	•	1	!	_		-		_			-	- 1	!		'	•		
09:30 AM	0	2	1	0	3	1	44	7	0	52	6	1	0	0	7	1	50	0	0	51	113
09:45 AM	1	2	2	0	5	1	44	3	0	48	7	0	0	0	7	1	64	0	0	65	125
Total	2	6	6	0	14	5	199	18	0	222	23	6	4	0	33	5	218	1	0	224	493
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10:00 AM	0	0	0	0	0	0	45	2	0	47	3	3	0	0	6	4	49	0	0	50	103
	-	-	U	-	1	U			_			3	-	-		l .		Ü	-		
10:15 AM	0	0	1	0	1	1	68	1	0	70	2	1	0	0	3	1	51	1	0	53	127
10:30 AM	0	1	3	0	4	0	44	4	0	48	2	2	0	0	4	0	62	0	0	62	118
10:45 AM	0	1	0	0	1	0	71	2	0	73	5	0	1	0	6	1	41	0	0	42	122
Total	0	2	4	0	6	1	228	9	0	238	12	6	1	0	19	3	203	1	0	207	470
Total	U	2	4	U	0	'	220	9	U	230	12	O	'	U	19	3	203	'	U	201	470
					1					1					1						
11:00 AM	1	1	0	0	2	1	55	4	0	60	7	1	2	0	10	3	44	1	0	48	120
11:15 AM	0	4	0	0	4	0	62	4	0	66	5	2	0	0	7	0	54	0	0	54	131
11:30 AM	1	2	0	0	3	Ö	61	4	Ö	65	1	0	0	0	1	0	49	0	Ö	49	118
			1	0		1	-	•	0		,	-	-	0	4 -			1	0		
11:45 AM	2	0			3		68	6		75	8	3	4		15	0	52			53	146_
Total	4	7	1	0	12	2	246	18	0	266	21	6	6	0	33	3	199	2	0	204	515
12:00 PM	0	2	1	0	3	1	68	9	0	78	2	0	1	0	3	0	53	0	0	53	137
12:15 PM	0	3	Ö	0	3	3	60	9	0	72	3	4	1	0	5	0	60	0	0	60	140
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12:30 PM	0	2	2	0	4	1	61	4	0	66	9	1	2	0	12	0	60	1	0	61	143
12:45 PM	2	3	1	0	6	2	60	5	0	67	7	0	0	0	7	1	47	0	0	48	128
Total	2	10	4	0	16	7	249	27	0	283	21	2	4	0	27	1	220	1	0	222	548
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Your Company Name Here This is your address Your City, State, Zip Code

Your Tagline Here

File Name: 0216_US60_Hammer_August2021

Site Code : 0216 Start Date : 8/25/2021

Page No : 2

Groups Printed- All Vehicles (no classification)

Groups Printed- All Vehicles (no classification)																					
			Hamme					US 60					Hammer					US 60			
		S	outhbou	nd			V	estbour/	nd			N	orthboun	d			E	astboun	d		
Start Time	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Int. Total
01:00 PM	0	1	0	0	1	0	61	4	0	65	4	1	0	0	5	0	48	0	0	48	119
01:15 PM	0	2	1	0	3	3	54	4	0	61	4	1	1	0	6	0	61	0	0	61	131
01:30 PM	0	2	3	0	5	1	65	5	0	71	5	0	2	0	7	1	49	0	0	50	133
01:45 PM	1	1	0	0	2	2	61	6	0	69	5	1	1	0	7	1	62	0	0	63	141
Total	1	6	4	0	11	6	241	19	0	266	18	3	4	0	25	2	220	0	0	222	524
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02:00 PM	0	1	0	0	1	2	74	7	0	83	5	2	1	0	8	2	57	0	0	59	151
02:15 PM	0	0	2	0	2	1	76	3	0	80	6	1	1	0	8	1	58	1	0	60	150
02:30 PM	1	5	0	0	6	2	74	5	0	81	9	5	1	0	15	1	75	0	0	76	178
02:45 PM	1	0	0	0	1	3	73	4	0	80	9	2	0	0	11	1	50	1	0	52	144
Total	2	6	2	0	10	8	297	19	0	324	29	10	3	0	42	5	240	2	0	247	623
		_		•		_			-				-	•	'	-			_	,	
03:00 PM	1	5	1	0	7	2	61	4	0	67	4	1	0	0	5	0	66	0	0	66	145
03:15 PM	1	4	0	0	5	3	67	8	0	78	9	3	0	0	12	1	63	1	0	65	160
03:30 PM	1	2	0	0	3	4	88	13	0	105	11	1	0	0	12	0	68	0	0	68	188
03:45 PM	2	2	1	0	5	5	94	11	0	110	5	2	0	0	7	2	54	1	0	57	179
Total	5	13	2	0	20	14	310	36	0	360	29	7	0	0	36	3	251	2	0	256	672
										,										,	
04:00 PM	3	4	0	0	7	3	95	10	0	108	7	1	0	0	8	2	99	0	0	101	224
04:15 PM	1	3	4	0	8	5	90	8	0	103	6	2	1	0	9	0	63	1	0	64	184
04:30 PM	0	1	1	0	2	2	95	13	0	110	9	7	0	0	16	2	96	3	0	101	229
04:45 PM	0	2	0	0	2	3	76	6	0	85	11	2	2	0	15	1	83	1	0	85	187
Total	4	10	5	0	19	13	356	37	0	406	33	12	3	0	48	5	341	5	0	351	824
	•		-	•				•	-	,			-	•		-		•			
05:00 PM	0	2	1	0	3	7	97	10	0	114	9	1	0	0	10	0	60	3	0	63	190
05:15 PM	1	4	2	0	7	3	94	16	0	113	10	7	1	0	18	0	81	2	0	83	221
05:30 PM	0	2	1	0	3	2	80	11	0	93	4	4	1	0	9	2	57	0	0	59	164
05:45 PM	1	1	0	0	2	1	84	8	0	93	5	1	0	0	6	0	67	1	0	68	169
Total	2	9	4	0	15	13	355	45	0	413	28	13	2	0	43	2	265	6	0	273	744
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06:00 PM	0	2	0	0	2	3	67	6	0	76	15	2	0	0	17	1	62	1	0	64	159
06:15 PM	1	1	0	0	2	2	78	4	0	84	7	0	1	0	8	0	65	1	0	66	160
06:30 PM	0	2	2	0	4	2	61	7	0	70	5	3	0	0	8	0	51	1	0	52	134
06:45 PM	1	3	1	0	5	1	51	3	0	55	5	1	0	0	6	1	60	0	0	61	127
Total	2	8	3	0	13	8	257	20	0	285	32	6	1	0	39	2	238	3	0	243	580
. Juli	_	J	3	3	.0	3		_5	J	200		J	•	J	00	-	200	J	3	2.0	555
Grand Total	35	92	60	0	187	94	3254	294	0	3642	334	97	42	0	473	40	3081	36	0	3157	7459
Apprch %	18.7	49.2	32.1	Ö		2.6	89.3	8.1	Ö		70.6	20.5	8.9	Ö		1.3	97.6	1.1	Ö		
Total %	0.5	1.2	0.8	0	2.5	1.3	43.6	3.9	0	48.8	4.5	1.3	0.6	0	6.3	0.5	41.3	0.5	0	42.3	
. 0 /0	0.0		٠.٠	-	5			3.0	-				٥.٠	-	0.0	2.0	•	٠.٠	-		



Southwest District

Steve Campbell, PE, District Engineer

Missouri Department of Transportation

3025 East Kearney Street P.O. Box 868 Springfield, Missouri 65801 417.895.7600

TO: Memo to File

FROM: Dorothy Halbrook

Senior Traffic Studies Specialist

Andrew Wall

Traffic Engineering Intern

DATE: July 26, 2022

SUBJECT: Traffic Study

Right Turn Lane and Left Turn Lane Warrant Study

US 60 at Oak Ridge Rd

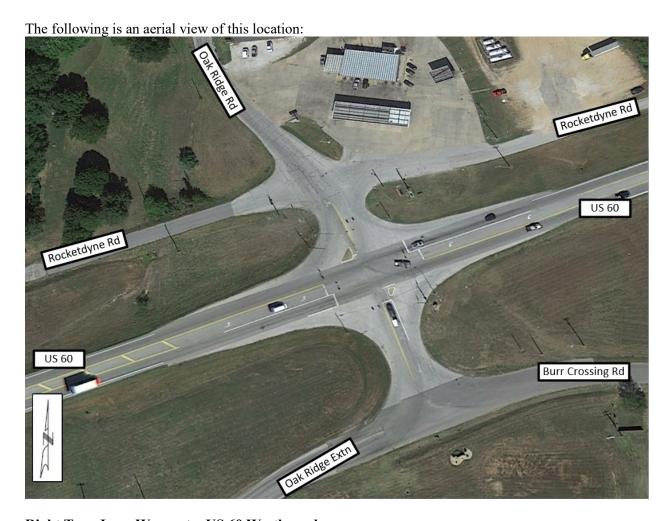
Newton County

The purpose of this study is to determine whether the intersection of US 60 at Oak Ridge Dr. meets the criteria in the EPG for an Auxiliary Acceleration and Turning Lane for all right turning and left turning movements. The study has been completed in response to scoping of a project addressing adding turn lanes along US 60.

Site Information:

US 60 is a two-lane, east-west principal arterial with 12-foot lanes and 6-foot shoulders at this location. Currently it has westbound and eastbound left-turn lanes but no right-turn lanes at this intersection. The posted speed limit on US 60 is 45 mph at this location. Oak Ridge Dr. is a two-lane major collector with two 10-foot lanes and no shoulders that runs north and briefly south from US 60. The speed limit on Oak Ridge Dr. is unposted; in the City of Neosho, the speed limit is 25 mph when unposted.





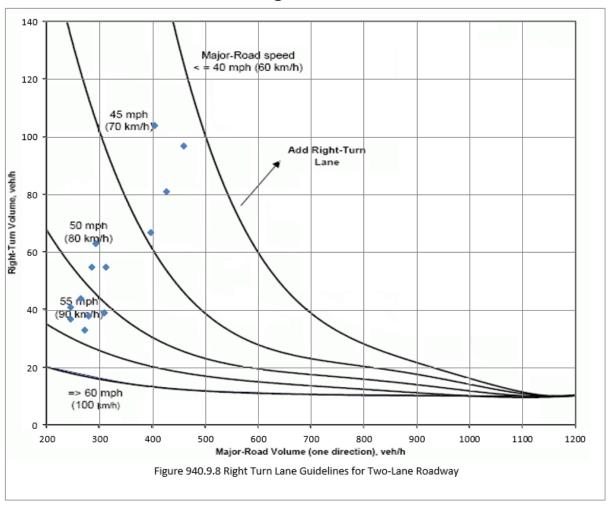
Right Turn Lane Warrant - US 60 Westbound

Traffic Volume Information:

A 13-hour traffic count was conducted at the intersection on September 13, 2018. Traffic was counted from 6:00 a.m. to 7:00 p.m.

During this time period there were a total of 754 westbound US 60 to northbound Oak Ridge Dr. right turning vehicles. The total westbound volume is 4,184 vehicles. The right turning volume makes up 18.0% of westbound traffic. The peak hour right turning volume for westbound traffic was 104 vehicles per hour out of 404 total westbound vehicles.

2 Lane Right Turn Lane Chart



The dots show where the total volume of westbound traffic and the right turning westbound volume intersect. The dots fall above the appropriate line for 13 hours counted. **Therefore, the volume warrant for a right turn lane has been met**.

Five Year Crash Rate Information:

Below is the crash history for the intersection of US 60 and Oak Ridge Dr. from January 1, 2017 to December 31, 2021. The intersection showed one (1) crash involving right-turning westbound traffic.

No. of Crashes	1
No. of Days	1,825
Entering AADT	4,833

An intersection crash rate can be calculated as follows:

$$CR = (Number\ of\ Crashes\ x\ 10E6)\ /\ (Number\ of\ Days\ x\ Entering\ AADT)$$

$$CR = (1 \times 10E6) / (1825 \times 4833) = 1.13$$

The crash severity is shown in the following table.

Severity Rating	2017	2018	2019	2020	2021	Total
Fatality	0	0	0	0	0	0
Disabling Injury	0	0	0	0	0	0
Minor Injury	0	0	0	0	0	0
Property Damage Only	0	0	1	0	0	1
Total	0	0	1	0	0	1

The crash classes are shown in the following table.

Crash Class	2017	2018	2019	2020	2021	Total
Rear End	0	0	1	0	0	1
Total	0	0	1	0	0	1

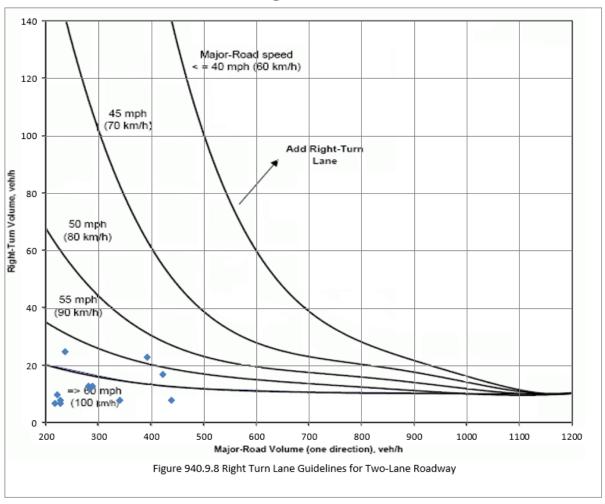
Right Turn Lane Warrant - US 60 Eastbound

<u>Traffic Volume Information:</u>

A 13-hour traffic count was conducted at the intersection on September 13, 2018. Traffic was counted from 6:00 a.m. to 7:00 p.m.

During this time period there were a total of 158 eastbound US 60 to southbound Oak Ridge Dr. right turning vehicles. The total eastbound volume is 3,692 vehicles. The right turning volume makes up 4.3% of eastbound traffic. The peak hour right turning volume for eastbound traffic was 25 vehicles per hour out of 235 total eastbound vehicles.

2 Lane Right Turn Lane Chart



The dots show where the total volume of eastbound traffic and the right turning eastbound volume intersect. The dots fall below the appropriate line for 13 hours counted. **Therefore, the volume warrant for a right turn lane has not been met**.

Five Year Crash Rate Information:

Below is the crash history for the intersection of US 60 and Oak Ridge Dr. from January 1, 2017 to December 31, 2021. The intersection showed zero (0) crashes involving right-turning eastbound traffic.

No. of Crashes	0
No. of Days	1,825
Entering AADT	5.235

An intersection crash rate can be calculated as follows:

 $CR = (Number \ of \ Crashes \ x \ 10E6) / (Number \ of \ Days \ x \ Entering \ AADT)$

$$CR = (0 \times 10E6) / (1825 \times 5235) =$$
0.00

The crash severity is shown in the following table.

Severity Rating	2017	2018	2019	2020	2021	Total
Fatality	0	0	0	0	0	0
Disabling Injury	0	0	0	0	0	0
Minor Injury	0	0	0	0	0	0
Property Damage Only	0	0	0	0	0	0
Total	0	0	0	0	0	0

The crash classes are shown in the following table.

Crash Class	2017	2018	2019	2020	2021	Total
Rear End	0	0	0	0	0	0
Total	0	0	0	0	0	0

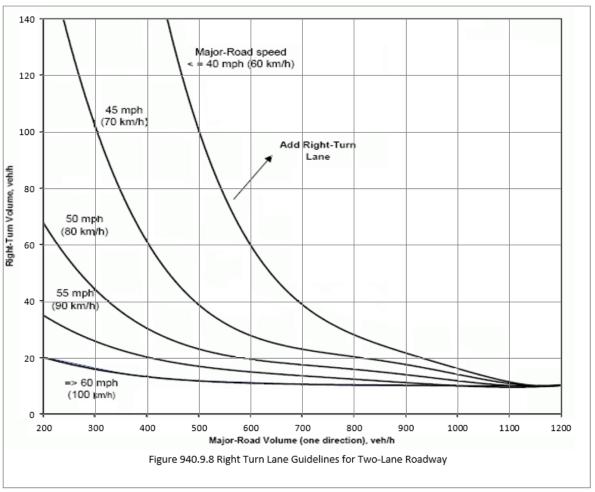
Right Turn Lane Warrant - Oak Ridge Dr. Northbound

Traffic Volume Information:

A 13-hour traffic count was conducted at the intersection on September 13, 2018. Traffic was counted from 6:00 a.m. to 7:00 p.m.

During this time period there were a total of 75 northbound Oak Ridge Dr. to eastbound US 60 right turning vehicles. The total northbound volume is 570 vehicles. The right turning volume makes up 13.2% of northbound traffic. The peak hour right turning volume for northbound traffic was 20 vehicles per hour out of 99 total northbound vehicles.

2 Lane Right Turn Lane Chart



The hourly volume never reaches the minimum of 200 veh/h to appear on the chart. **Therefore, the volume warrant for a right turn lane has not been met**.

Five Year Crash Rate Information:

Below is the crash history for the intersection of US 60 and Oak Ridge Dr. from January 1, 2017 to December 31, 2021. The intersection showed zero (0) crashes involving right-turning northbound traffic.

No. of Crashes	0
No. of Days	1,825
Entering AADT	5.235

An intersection crash rate can be calculated as follows:

$$CR = (Number\ of\ Crashes\ x\ 10E6)\ /\ (Number\ of\ Days\ x\ Entering\ AADT)$$

$$CR = (0 \times 10E6) / (1825 \times 1171) = \mathbf{0.00}$$

The crash severity is shown in the following table.

Severity Rating	2017	2018	2019	2020	2021	Total
Fatality	0	0	0	0	0	0
Disabling Injury	0	0	0	0	0	0
Minor Injury	0	0	0	0	0	0
Property Damage Only	0	0	0	0	0	0
Total	0	0	0	0	0	0

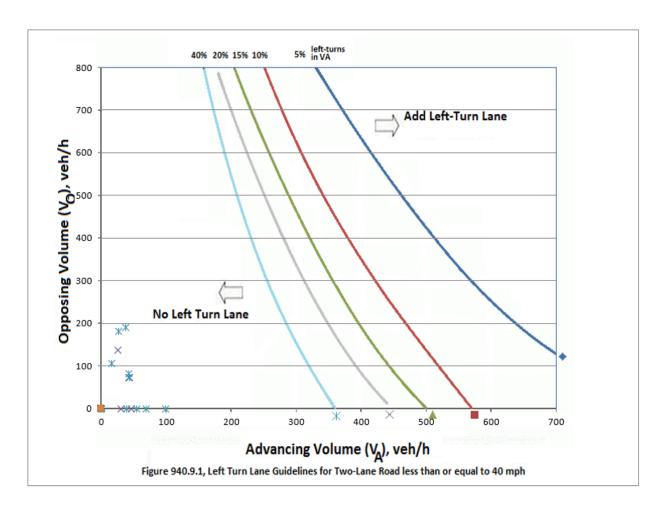
The crash classes are shown in the following table.

Crash Class	2017	2018	2019	2020	2021	Total
Rear End	0	0	0	0	0	0
Total	0	0	0	0	0	0

Left Turn Lane Warrant - Oak Ridge Dr. Northbound

A 13-hour traffic count was conducted at the intersection on September 13, 2018. Traffic was counted from 6:00 a.m. to 7:00 p.m.

During this time period there were a total of 138 northbound Oak Ridge Dr. to eastbound US 60 left turning vehicles. The total northbound volume is 570 vehicles. The left turning volume makes up 24.2% of northbound traffic. The peak hour left turning volume for northbound traffic was 26 vehicles per hour out of 99 total northbound vehicles.



The dots show where the total volume of northbound traffic and the left turning southbound volume intersect. The dots fall below the appropriate line for 13 hours counted. **Therefore, the volume warrant for a left turn lane has not been met**.

Five Year Crash Rate Information:

Below is the crash history for the intersection of US 60 and Oak Ridge Dr. from January 1, 2017 to December 31, 2021. The intersection showed zero (0) crashes involving left-turning northbound traffic.

No. of Crashes	θ
No. of Days	1,825
Entering AADT	1,171

An intersection crash rate can be calculated as follows:

$$CR = (Number of Crashes \ x \ 10E6) / (Number of Days \ x \ Entering \ AADT)$$

$$CR = (0 \ x \ 10E6) / (1825 \ x \ 1171) = \mathbf{0.00}$$

The crash severity is shown in the following table.

Severity Rating	2017	2018	2019	2020	2021	Total
Fatality	0	0	0	0	0	0
Disabling Injury	0	0	0	0	0	0
Minor Injury	0	0	0	0	0	0
Property Damage Only	0	0	0	0	0	0
Total	0	0	0	0	0	0

The crash classes are shown in the following table.

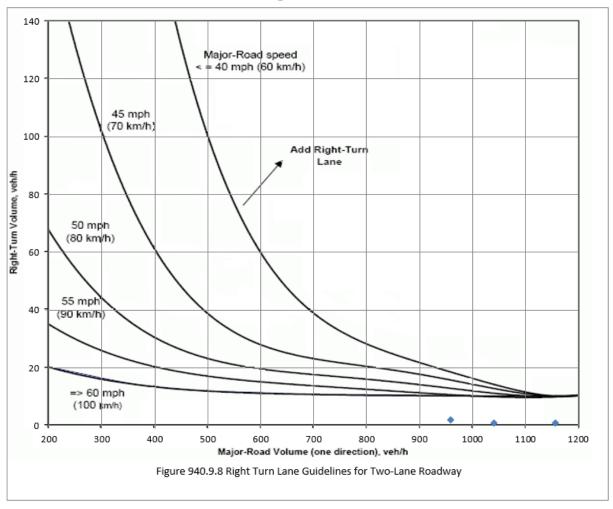
Crash Class	2017	2018	2019	2020	2021	Total
Rear End	0	0	0	0	0	0
Total	0	0	0	0	0	0

Right Turn Lane Warrant - Oak Ridge Dr. Southbound

A 13-hour traffic count was conducted at the intersection on September 13, 2018. Traffic was counted from 6:00 a.m. to 7:00 p.m.

During this time period there were a total of 605 southbound Oak Ridge Dr. to westbound US 60 right turning vehicles. The total southbound volume is 1,815 vehicles. The right turning volume makes up 33.3% of southbound traffic. The peak hour right turning volume for southbound traffic was 78 vehicles per hour out of 217 total southbound vehicles.

2 Lane Right Turn Lane Chart



The dots show where the total volume of northbound traffic and the left turning southbound volume intersect. The dots fall below the appropriate line for 13 hours counted. **Therefore, the volume warrant for a right turn lane has not been met**.

Five Year Crash Rate Information:

Below is the crash history for the intersection of US 60 and Oak Ridge Dr. from January 1, 2017 to December 31, 2021. The intersection showed three (3) crashes involving right-turning southbound traffic.

No. of Crashes	3
No. of Days	1,825
Entering AADT	1,391

An intersection crash rate can be calculated as follows:

 $CR = (Number\ of\ Crashes\ x\ 10E6)\ /\ (Number\ of\ Days\ x\ Entering\ AADT)$

$$CR = (3 \times 10E6) / (1825 \times 1391) = 11.82$$

The crash severity is shown in the following table.

Severity Rating	2017	2018	2019	2020	2021	Total
Fatality	0	0	0	0	0	0
Disabling Injury	0	0	0	0	0	0
Minor Injury	0	0	0	0	0	0
Property Damage Only	1	1	0	0	1	3
Total	1	1	0	0	1	3

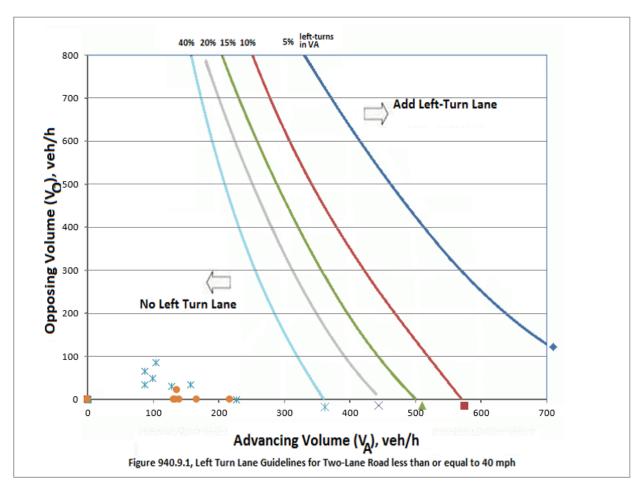
The crash classes are shown in the following table.

Crash Class	2017	2018	2019	2020	2021	Total
Angle	0	0	0	0	1	1
Rear End	1	1	0	0	0	0
Total	1	1	0	0	1	1

Left Turn Lane Warrant - Oak Ridge Dr. Southbound

A 13-hour traffic count was conducted at the intersection on September 13, 2018. Traffic was counted from 6:00 a.m. to 7:00 p.m.

During this time period there were a total of 747 southbound Oak Ridge Dr. to eastbound US 60 left turning vehicles. The total southbound volume is 1,815 vehicles. The left turning volume makes up 41.2% of southbound traffic. The peak hour left turning volume for southbound traffic was 99 vehicles per hour out of 217 total southbound vehicles.



The dots show where the total volume of northbound traffic and the left turning southbound volume intersect. The dots fall below the appropriate line for 13 hours counted. **Therefore, the volume warrant for a left turn lane has not been met**.

Five Year Crash Rate Information:

Below is the crash history for the intersection of US 60 and Oak Ridge Dr. from January 1, 2017 to December 31, 2021. The intersection showed zero (0) crashes involving left-turning southbound traffic.

No. of Crashes	0
No. of Days	1,825
Entering AADT	1.391

An intersection crash rate can be calculated as follows:

 $CR = (0 \times 10E6) / (1825 \times 1391) = \mathbf{0.00}$

$$CR = (Number \ of \ Crashes \ x \ 10E6) \ / \ (Number \ of \ Days \ x \ Entering \ AADT)$$

The crash severity is shown in the following table.

Severity Rating	2017	2018	2019	2020	2021	Total
Fatality	0	0	0	0	0	0
Disabling Injury	0	0	0	0	0	0
Minor Injury	0	0	0	0	0	0
Property Damage Only	0	0	0	0	0	0
Total	0	0	0	0	0	0

The crash classes are shown in the following table.

Crash Class	2017	2018	2019	2020	2021	Total
Rear End	0	0	0	0	0	0
Total	0	0	0	0	0	0

Comments:

There were three (3) crashes correctable by the addition of a southbound right turn lane at the intersection from January 1, 2017 to December 31, 2021, as well as one (1) crash correctable by the addition of a westbound right turn lane. The turning movement counts show that the intersection meets the minimum volume criteria for the westbound right-turning movement. Therefore, a new westbound right-turn lane is recommended.



Southwest District

Steve Campbell, PE, District Engineer

3025 East Kearney Street P.O. Box 868 Springfield, Missouri 65801 417.895.7600

Missouri Department of Transportation

TO: File

FROM: Dorothy Halbrook

Senior Traffic Studies Specialist

DATE: June 29th, 2022

SUBJECT: Right Turn Lane Study

US 60 at Route HH Newton County

The purpose of this study is to determine whether the intersection of US 60 and Route HH in Newton County meet the criteria in the EPG for the installation of any left or right turn lanes. The study has been completed in response to scoping of a project addressing adding turn lanes along US 60.

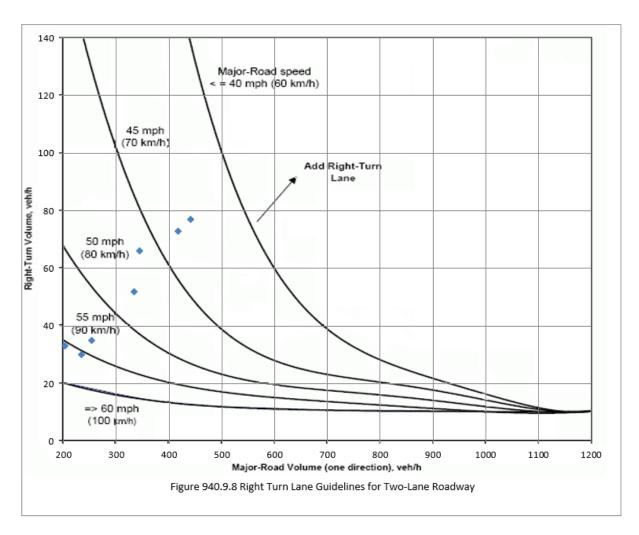
US 60 is a super two-lane principal arterial with a speed limit of 65 MPH through the intersection of Route HH. The existing left turn lanes are for EB US 60 to EB Route HH and for WB US 60 to WB Route HH. Route HH is a two-lane major collector with a speed limit of 35 mph through the intersection of US 60. There are no existing turn lanes on this segment of Route HH. See the aerial below to see the existing conditions.





EASTBOUND US 60 RIGHT TURN LANE VOLUME WARRANT:

TRAFFIC VOLUME INFORMATION: a 13-hour traffic count was performed at the intersection of US 60 and Route HH in August of 2021. The speed limit of US 60 at this intersection is 65 MPH. Traffic was counted from 6:00 AM to 7:00 PM. During this time, there were a total of 484 EB US 60 to EB Route HH right turning vehicles. The total eastbound thru volume was 2988 vehicles. The right turn volume makes up 16.2% of the eastbound traffic on US 60. The peak right turning volume was 77 vehicles per hour out of 338 vehicles.



The blue diamond shows where the right turning volumes of the advancing traffic and the total advancing traffic volumes intersect for each hour of the traffic count. Therefore, the intersection falls **above** the 60 MPH line for at two-lane road, and therefore the volume warrant for a EB right turn lane is **met**.

FIVE YEAR CRASH RATE INFORMATION:

Below is the relevant crash history for the intersection of US 60 and Route HH from January 1st, 2016 to December 31, 2020. The intersection showed 0 relevant crashes at this location.

No. of Crashes 0 No. of Days 1825

Entering AADT 4960 (2021)

An intersection crash rate can be calculated using the formula below.

CR = (number of crashes x 10E6)/No. of days x Entering AADT) CR = $(0 \times 10E6)/(1825 \times 4960) = 0$

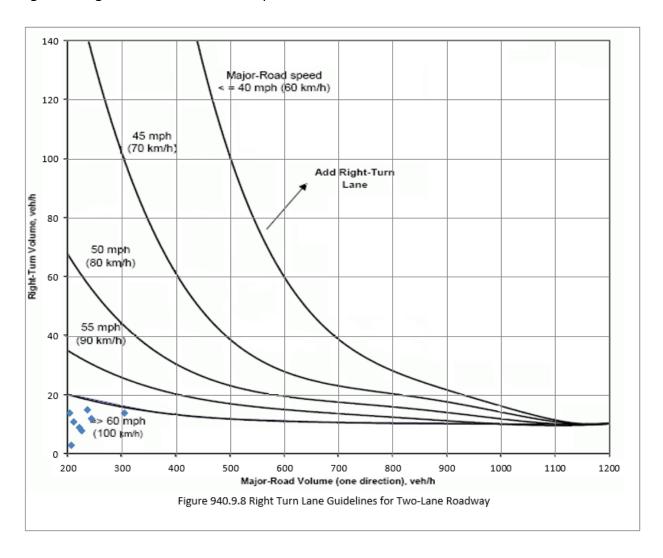
		US 60)			
Severity Rating	2016	2017	2018	2019	2020	Total
Fatality	0	0	0	0	0	0
Disabling Injury	0	0	0	0	0	0
Minor Injury	0	0	0	0	0	0
Property Damage Only	0	0	0	0	0	0
Total	0	0	0	0	0	0

The crash classes are shown in the following table.

		US 60)			
Crash Class	2016	2017	2018	2019	2020	Total
Rear End	0	0	0	0	0	0
Total	0	0	0	0	0	0

WESTBOUND US 60 RIGHT TURN LANE VOLUME WARRANT:

TRAFFIC VOLUME INFORMATION: a 13-hour traffic count was performed at the intersection of US 60 and Route HH in August of 2021. The speed limit of US 60 at this intersection is 65 MPH. Traffic was counted from 6:00 AM to 7:00 PM. During this time, there were a total of 138 WB US 60 to WB Route HH right turning vehicles. The total westbound thru volume was 2385 vehicles. The right turn volume makes up 5.8% of the westbound traffic on US 60. The peak right turning volume was 14 vehicles per hour out of 282 vehicles.



The blue diamond shows where the right turning volumes of the advancing traffic and the total advancing traffic volumes intersect for each hour of the traffic count. Therefore, the intersection falls **below** the 60 MPH line for at two-lane road, and therefore the volume warrant for a WB right turn lane is **not met**.

FIVE YEAR CRASH RATE INFORMATION:

Below is the relevant crash history for the intersection of US 60 and Route HH from January 1st, 2016 to December 31, 2020. The intersection showed 0 relevant crashes at this location.

No. of Crashes 0 No. of Days 1825

Entering AADT 4306 (2021)

An intersection crash rate can be calculated using the formula below.

CR = (number of crashes x 10E6)/No. of days x Entering AADT) CR = $(0 \times 10E6)/(1825 \times 4306) = 0$

		US 60)			
Severity Rating	2016	2017	2018	2018	2020	Total
Fatality	0	0	0	0	0	0
Disabling Injury	0	0	0	0	0	0
Minor Injury	0	0	0	0	0	0
Property Damage Only	0	0	0	0	0	0
Total	0	0	0	0	0	0

The crash classes are shown in the following table.

		US 60)			
Crash Class	2016	2017	2018	2019	2020	Total
Rear End	0	0	0	0	0	0
Total	0	0	0	0	0	0

COMMENTS:

The traffic volumes warrant is met for the eastbound right turn lane on US 60 to Route HH. There is not a sufficient crash history and traffic volumes to warrant the installation of any other turn lanes on US 60 or Route HH currently. There is a crash issue here for traffic trying to turn from EB Route HH onto EB US 60 from the eastbound, from WB Route HH onto WB US 60, or crossing Route HH from either direction. Therefore, it is recommended to add a roundabout at this location and be placed on the "Traffic Needs List."



Count Name: RT Z @ Hartley Jasper 7GST Feb 2020 Site Code: Start Date: 02/04/2020 Page No: 1

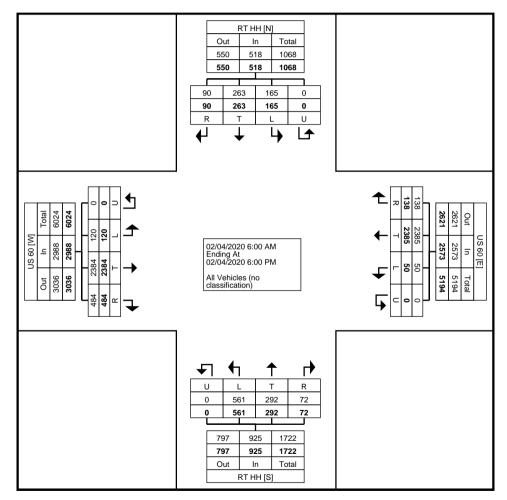
Turning Movement Data

			RT HH					US 60	Ŭ				RT HH					US 60			
Ot and Time a			Southbound					Westbound					Northbound					Eastbound			İ
Start Time	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Int. Total
6:00 AM	0	1	5	0	6	0	26	0	0	26	0	3	11	0	14	2	22	0	0	24	70
6:15 AM	1	2	4	0	7	0	31	0	0	31	0	4	6	0	10	3	19	0	0	22	70
6:30 AM	1	3	0	0	4	3	71	1	0	75	3	3	16	0	22	1	15	2	0	18	119
6:45 AM	1	7	1	0	9	0	73	0	0	73	4	5	20	0	29	6	29	0	0	35	146
Hourly Total	3	13	10	0	26	3	201	1	0	205	7	15	53	0	75	12	85	2	0	99	405
7:00 AM	0	5	1	0	6	2	57	2	0	61	1	7	16	0	24	10	42	0	0	52	143
7:15 AM	3	1	8	0	12	6	70	3	0	79	5	10	31	0	46	1	29	4	0	34	171
7:30 AM	3	2	5	0	10	3	73	3	0	79	2	14	24	0	40	6	34	1	0	41	170
7:45 AM	1	4	2	0	7	3	82	0	0	85	2	23	19	0	44	8	37	0	0	45	181
Hourly Total	7	12	16	0	35	14	282	8	0	304	10	54	90	0	154	25	142	5	0	172	665
8:00 AM	3	2	4	0	9	5	59	0	0	64	0	6	15	0	21	7	30	1	0	38	132
8:15 AM	1	2	2	0	5	1	61	1	0	63	1	2	15	0	18	7	37	0	0	44	130
8:30 AM	1	2	. 4	0	. 7	1	49	1	0	51	1	8	14	0	23	7	28	0	0	35	116
8:45 AM	1	2	1	0	4	1	44	2	0	47	1	12	15	0	28	4	34	2	0	40	119
Hourly Total	6	8	11	0	25	8	213	4	0	225	3	28	59	0	90	25	129	3	0	157	497
9:00 AM	3	3	1	0	. 7	3	49	1	0	53	1	4	11	0	16	7	37	2	0	46	122
9:15 AM	0	7	3	0	10	1	60	2	0	63	2	4	13	0	19	4	28	1	0	33	125
9:30 AM	3	5	1	0	9	6	43	2	0	51	1	2	6	0	9	11	45	1	0	57	126
9:45 AM	0	2	2	0	4	1	40	2	0	43	1	7	7	0	15	7	21	4	0	32	94
Hourly Total	6	17	7	0	30	11	192	7	0	210	5	17	37	0	59	29	131	8	0	168	467
10:00 AM	3	3	4	0	10	4	35	1	0	40	3	9	5	0	17	4	35	3	0	42	109
10:15 AM	2	2	3	0	. 7	3	29	0	0	32	1	3	5	0	9	7	34	1	0	42	90
10:30 AM	2	2	2	0	6	3	57	0	0	60	0	5	15	0	20	9	30	2	0	41	127
10:45 AM	1	3	0	0	4	5	41	0	0	46	1	8	10	0	19	7	34	0	0	41	110
Hourly Total	8	10	9	0	27	15	162	1	0	178	5	25	35	0	65	27	133	6	0	166	436
11:00 AM	1	4	. 1	0	6	5	40	1	0	46	1	4	15	0	20	8	53	2	0	63	135
11:15 AM	3	5	6	0	14	5	30	0	0	35	2	4	16	0	22	6	25	2	0	33	104
11:30 AM	2	8	2	0	12	3	35	3	0	41	3	2	10	0	15	11	49	2	0	62	130
11:45 AM	0	3	4	0	. 7	2	42	2	0	46	2	3	11	0	16	8	35	2	0	45	114
Hourly Total	6	20	13	0	39	15	147	6	0	168	8	13	52	0	73	33	162	8	0	203	483
12:00 PM	2	9	5	0	16	1	51	2	0	54	2	4	. 4	0	10	9	44	0	0	53	133
12:15 PM	0	6	2	0	. 8	2	40	2	0	44	1	6	12	0	19	7	57	0	0	64	135
12:30 PM	1	4	3	0	8	11	34	2	0	37	1	6	10	0	17	12	61	2	0	75	137
12:45 PM	2	4	4	0	10	2	46	0	0	48	2	5	6	0	13	7	50	5	0	62	133
Hourly Total	5	23	14	0	42	6	171	6	0	183	6	21	32	0	59	35	212	. 7	0	254	538
1:00 PM	1	6	2	0	9	2	49	3	0	54	1	8	11	0	20	9	36	. 5	0	50	133

1:15 PM	1	7	4	0	12	4	58	0	0	62	3	6	14	0	23	9	51	1	0	61	158
1:30 PM	2	7	2	0	11	2	52	0	0	54	0	2	9	0	11	5	48	1	0	54	130
1:45 PM	0	6	1	0	7	1	48	2	0	51	0	5	9	0	14	7	58	4	0	69	141
Hourly Total	4	26	9	0	39	9	207	5	0	221	4	21	43	0	68	30	193	11	0	234	562
2:00 PM	1	8	1	0	10	2	52	1	0	55	4	8	11	0	23	11	88	3	0	102	190
2:15 PM	4	6	4	0	14	3	40	0	0	43	2	5	13	0	20	10	59	3	0	72	149
2:30 PM	1	6	6	0	13	7	47	0	0	54	1	5	6	0	12	17	59	5	0	81	160
2:45 PM	3	4	5	0	12	4	42	1	0	47	2	9	15	0	26	14	62	2	0	78	163
Hourly Total	9	24	16	0	49	16	181	2	0	199	9	27	45	0	81	52	268	13	0	333	662
3:00 PM	6	7	6	0	19	3	57	1	0	61	2	8	3	0	13	15	71	6	0	92	185
3:15 PM	0	12	3	0	15	4	59	0	0	63	0	7	9	0	16	21	81	7	0	109	203
3:30 PM	6	13	7	0	26	3	55	0	0	58	0	7	6	0	13	16	104	6	0	126	223
3:45 PM	4	15	12	0	31	2	57	2	0	61	4	7	13	0	24	25	82	7	0	114	230
Hourly Total	16	47	28	0	91	12	228	3	0	243	6	29	31	0	66	77	338	26	0	441	841
4:00 PM	3	6	4	0	13	3	34	1	0	38	7	5	12	0	24	20	78	5	0	103	178
4:15 PM	1	10	3	0	14	5	51	0	0	56	0	7	14	0	21	16	86	4	0	106	197
4:30 PM	3	5	4	0	12	2	36	0	0	38	0	7	7	0	14	22	77	6	0	105	169
4:45 PM	2	11	7	0	20	4	64	2	0	70	0	4	12	0	16	15	84	4	0	103	209
Hourly Total	9	32	18	0	59	14	185	3	0	202	7	23	45	0	75	73	325	19	0	417	753
5:00 PM	1	9	5	0	15	4	54	1	0	59	1	4	3	0	8	25	88	5	0	118	200
5:15 PM	5	10	3	0	18	7	51	1	0	59	0	6	10	0	16	21	61	5	0	87	180
5:30 PM	3	7	2	0	12	1	53	0	0	54	1	5	16	0	22	12	64	1	0	77	165
5:45 PM	2	5	4	0	. 11	3	58	2	0	63	0	4	10	0	14	8	53	1	0	62	150
Hourly Total	11	31	14	0	56	15	216	4	0	235	2	19	39	0	60	66	266	12	0	344	695
Grand Total	90	263	165	0	518	138	2385	50	0	2573	72	292	561	0	925	484	2384	120	0	2988	7004
Approach %	17.4	50.8	31.9	0.0	-	5.4	92.7	1.9	0.0	-	7.8	31.6	60.6	0.0	-	16.2	79.8	4.0	0.0	-	-
Total %	1.3	3.8	2.4	0.0	7.4	2.0	34.1	0.7	0.0	36.7	1.0	4.2	8.0	0.0	13.2	6.9	34.0	1.7	0.0	42.7	-
All Vehicles (no classification)	90	263	165	0	518	138	2385	50	0	2573	72	292	561	0	925	484	2384	120	0	2988	7004
% All Vehicles (no classification)	100.0	100.0	100.0	-	100.0	100.0	100.0	100.0	-	100.0	100.0	100.0	100.0	-	100.0	100.0	100.0	100.0	-	100.0	100.0



Count Name: RT Z @ Hartley Jasper 7GST Feb 2020 Site Code: Start Date: 02/04/2020 Page No: 3



Turning Movement Data Plot



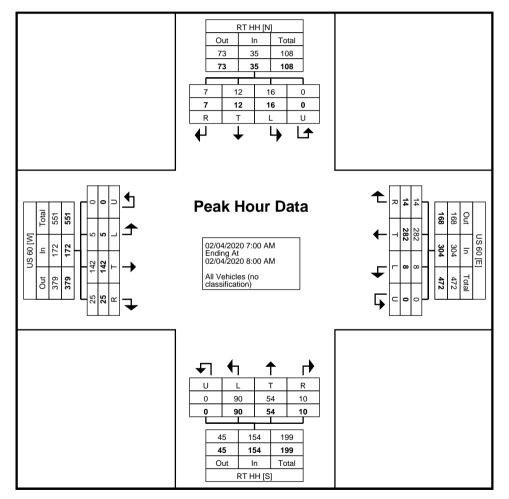
Count Name: RT Z @ Hartley Jasper 7GST Feb 2020 Site Code: Start Date: 02/04/2020 Page No: 4

Turning Movement Peak Hour Data (7:00 AM)

							·	,		· oan		~ · · ·	00,	٠,							
			RT HH					US 60					RT HH					US 60			
Ctart Time			Southbound	l				Westbound					Northbound	l				Eastbound			
Start Time	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Int. Total
7:00 AM	0	5	1	0	6	2	57	2	0	61	1	7	16	0	24	10	42	0	0	52	143
7:15 AM	3	1	8	0	12	6	70	3	0	79	5	10	31	0	46	1	29	4	0	34	171
7:30 AM	3	2	5	0	10	3	73	3	0	79	2	14	24	0	40	6	34	1	0	41	170
7:45 AM	1	4	2	0	7	3	82	0	0	85	2	23	19	0	44	8	37	0	0	45	181
Total	7	12	16	0	35	14	282	8	0	304	10	54	90	0	154	25	142	5	0	172	665
Approach %	20.0	34.3	45.7	0.0	-	4.6	92.8	2.6	0.0	-	6.5	35.1	58.4	0.0	-	14.5	82.6	2.9	0.0	-	-
Total %	1.1	1.8	2.4	0.0	5.3	2.1	42.4	1.2	0.0	45.7	1.5	8.1	13.5	0.0	23.2	3.8	21.4	0.8	0.0	25.9	-
PHF	0.583	0.600	0.500	0.000	0.729	0.583	0.860	0.667	0.000	0.894	0.500	0.587	0.726	0.000	0.837	0.625	0.845	0.313	0.000	0.827	0.919
All Vehicles (no classification)	7	12	16	0	35	14	282	8	0	304	10	54	90	0	154	25	142	5	0	172	665
% All Vehicles (no classification)	100.0	100.0	100.0	-	100.0	100.0	100.0	100.0	<u>-</u>	100.0	100.0	100.0	100.0	-	100.0	100.0	100.0	100.0	-	100.0	100.0



Count Name: RT Z @ Hartley Jasper 7GST Feb 2020 Site Code: Start Date: 02/04/2020 Page No: 5



Turning Movement Peak Hour Data Plot (7:00 AM)



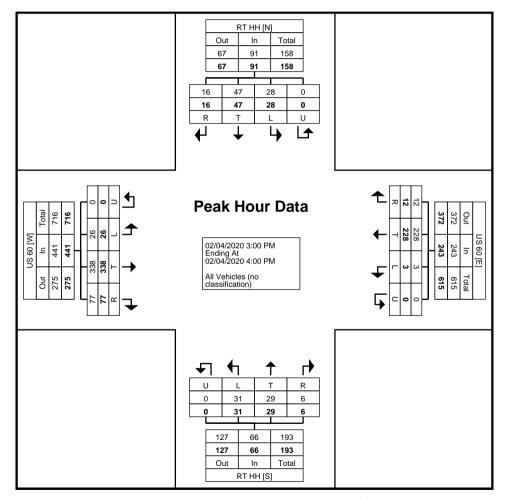
Count Name: RT Z @ Hartley Jasper 7GST Feb 2020 Site Code: Start Date: 02/04/2020 Page No: 6

Turning Movement Peak Hour Data (3:00 PM)

							G	,	,,,,,	I Can I	10 G. D	ata (o.		٠,							1
			RT HH					US 60					RT HH					US 60			
Start Time			Southbound					Westbound					Northbound	l				Eastbound			
Start Time	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Int. Total
3:00 PM	6	7	6	0	19	3	57	1	0	61	2	8	3	0	13	15	71	6	0	92	185
3:15 PM	0	12	3	0	15	4	59	0	0	63	0	7	9	0	16	21	81	7	0	109	203
3:30 PM	6	13	7	0	26	3	55	0	0	58	0	7	6	0	13	16	104	6	0	126	223
3:45 PM	4	15	12	0	31	2	57	2	0	61	4	7	13	0	24	25	82	7	0	114	230
Total	16	47	28	0	91	12	228	3	0	243	6	29	31	0	66	77	338	26	0	441	841
Approach %	17.6	51.6	30.8	0.0	-	4.9	93.8	1.2	0.0	-	9.1	43.9	47.0	0.0	-	17.5	76.6	5.9	0.0	-	-
Total %	1.9	5.6	3.3	0.0	10.8	1.4	27.1	0.4	0.0	28.9	0.7	3.4	3.7	0.0	7.8	9.2	40.2	3.1	0.0	52.4	-
PHF	0.667	0.783	0.583	0.000	0.734	0.750	0.966	0.375	0.000	0.964	0.375	0.906	0.596	0.000	0.688	0.770	0.813	0.929	0.000	0.875	0.914
All Vehicles (no classification)	16	47	28	0	91	12	228	3	0	243	6	29	31	0	66	77	338	26	0	441	841
% All Vehicles (no classification)	100.0	100.0	100.0	-	100.0	100.0	100.0	100.0	-	100.0	100.0	100.0	100.0	<u>-</u>	100.0	100.0	100.0	100.0	-	100.0	100.0



Count Name: RT Z @ Hartley Jasper 7GST Feb 2020 Site Code: Start Date: 02/04/2020 Page No: 7



Turning Movement Peak Hour Data Plot (3:00 PM)



Count Name: RT Z @ Hartley Jasper 7GST Feb 2020 Site Code: Start Date: 02/04/2020 Page No: 8



Southwest District

Steve Campbell, PE, District Engineer

Missouri Department of Transportation

3025 East Kearney Street P.O. Box 868 Springfield, Missouri 65801 417.895.7600

TO: Memo to File

FROM: Dorothy Halbrook

Senior Traffic Studies Specialist

Andrew Wall

Traffic Engineering Intern

DATE: September 15th, 2022

SUBJECT: Traffic Study

Right Turn Lane and Left Turn Lane Warrant Study

US 60 at RT M & RT W

Newton County

The purpose of this study is to determine whether the intersection of US 60 at RT M & RT W meets the criteria in the EPG for an Auxiliary Acceleration and Turning Lane for all right turning and left turning movements. The study has been completed in response to scoping of a project addressing adding turn lanes along US 60.

Site Information:

US 60 is a two-lane, east-west principal arterial with 12-foot lanes and 6-foot shoulders at this location. Currently it has no left- or right-turn lanes at this intersection. The posted speed limit on US 60 is 65 mph at this location. RT M is a two-lane major collector with two 10-foot lanes and no shoulders that runs south from US 60. The posted speed limit on RT M is 55 mph at this location. RT W is a two-lane major collector with two 11-foot lanes and no shoulders that runs north from US 60. The posted speed limit on RT W is 55 mph at this location.



The following is an aerial view of this location:

US 60

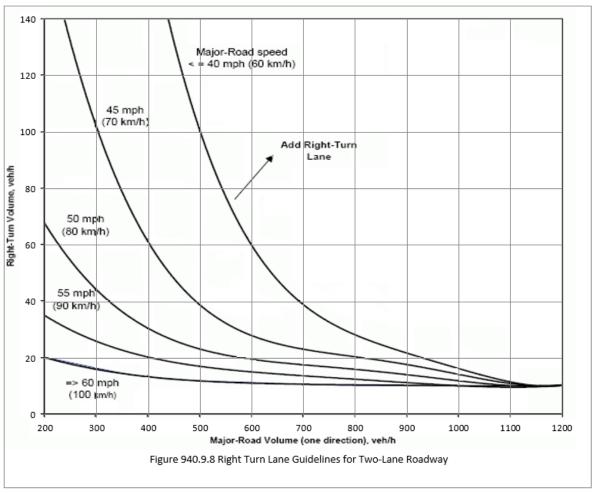
Right Turn Lane Warrant – US 60 Westbound

<u>Traffic Volume Information:</u>

A 13-hour traffic count was conducted at the intersection on August 25, 2021. Traffic was counted from 6:00 a.m. to 7:00 p.m.

During this time period there were a total of 67 westbound US 60 to northbound RT W right turning vehicles. The total westbound volume is 1,511 vehicles. The right turning volume makes up 4.4% of westbound traffic. The peak hour right turning volume for westbound traffic was 10 vehicles per hour out of 112 total westbound vehicles.

2 Lane Right Turn Lane Chart



The hourly volume never reaches the minimum of 200 veh/h to appear on the chart. **Therefore, the volume warrant for a right turn lane has not been met**.

Five Year Crash Rate Information:

Below is the crash history for the intersection of US 60 and RT M & RT W from January 1, 2017 to December 31, 2021. The intersection showed zero (0) crashes involving right-turning westbound traffic.

No. of Crashes	0
No. of Days	1,825
Entering AADT	1,842

An intersection crash rate can be calculated as follows:

 $CR = (Number\ of\ Crashes\ x\ 10E6)\ /\ (Number\ of\ Days\ x\ Entering\ AADT)$

$$CR = (0 \times 10E6) / (1825 \times 1842) =$$
0.00

The crash severity is shown in the following table.

Severity Rating	2017	2018	2019	2020	2021	Total
Fatality	0	0	0	0	0	0
Disabling Injury	0	0	0	0	0	0
Minor Injury	0	0	0	0	0	0
Property Damage Only	0	0	0	0	0	0
Total	0	0	0	0	0	0

The crash classes are shown in the following table.

Crash Class	2017	2018	2019	2020	2021	Total
All Classes	0	0	0	0	0	0
Total	0	0	0	0	0	0

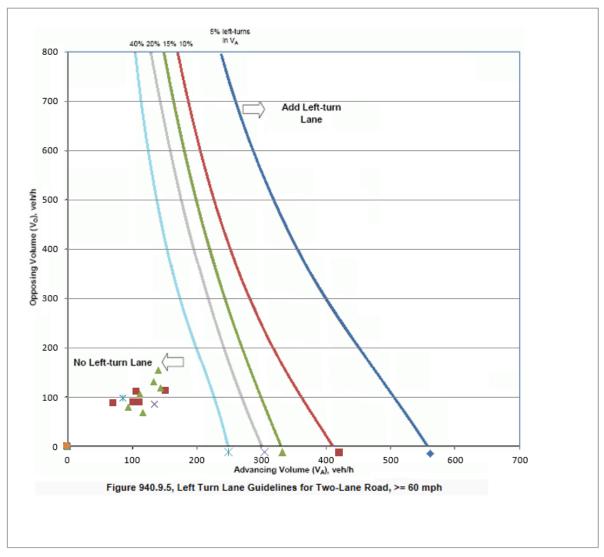
Left Turn Lane Warrant - US 60 Westbound

Traffic Volume Information:

A 13-hour traffic count was conducted at the intersection on August 25, 2021. Traffic was counted from 6:00 a.m. to 7:00 p.m.

During this time period there were a total of 174 westbound US 60 to southbound RT M left turning vehicles. The total westbound volume is 1,511 vehicles. The left turning volume makes up 11.5% of westbound traffic. The peak hour left turning volume for westbound traffic was 24 vehicles per hour out of 135 total westbound vehicles.

60 mph Left Turn Lane Warrant



The dots show where the total volume of eastbound traffic and the left turning westbound volume intersect. The dots fall below the appropriate line for 13 hours counted. **Therefore, the volume warrant for a left turn lane has not been met**.

Five Year Crash Rate Information:

Below is the crash history for the intersection of US 60 and RT M & RT W from January 1, 2017 to December 31, 2021. The intersection showed seven (7) crashes involving left-turning westbound traffic.

No. of Crashes	7
No. of Days	1,825
Entering AADT	1,842

An intersection crash rate can be calculated as follows:

 $CR = (Number \ of \ Crashes \ x \ 10E6) \ / \ (Number \ of \ Days \ x \ Entering \ AADT)$

 $CR = (7 \times 10E6) / (1825 \times 1842) = 20.82$

The crash severity is shown in the following table.

Severity Rating	2017	2018	2019	2020	2021	Total
Fatality	0	0	1	0	0	1
Disabling Injury	0	0	0	0	0	0
Minor Injury	0	1	1	0	0	2
Property Damage Only	3	0	1	0	0	4
Total	3	1	3	0	0	7

The crash classes are shown in the following table.

Crash Class	2017	2018	2019	2020	2021	Total
Rear End	2	0	1	0	0	3
Angle	0	1	2	0	0	3
Object	1	0	0	0	0	1
Total	3	1	3	0	0	7

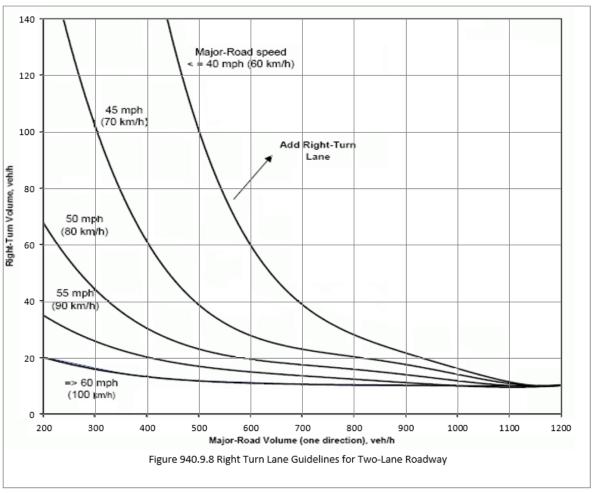
Right Turn Lane Warrant - US 60 Eastbound

Traffic Volume Information:

A 13-hour traffic count was conducted at the intersection on August 25, 2021. Traffic was counted from 6:00 a.m. to 7:00 p.m.

During this time period there were a total of 119 eastbound US 60 to southbound RT M right turning vehicles. The total eastbound volume is 1,458 vehicles. The right turning volume makes up 8.2% of eastbound traffic. The peak hour right turning volume for eastbound traffic was 17 vehicles per hour out of 109 total eastbound vehicles.

2 Lane Right Turn Lane Chart



The hourly volume never reaches the minimum of 200 veh/h to appear on the chart. **Therefore, the volume warrant for a right turn lane has not been met**.

Five Year Crash Rate Information:

The crash history for the intersection of US 60 and RT M & RT W from January 1, 2017 to December 31, 2021 showed zero (0) crashes involving right-turning eastbound traffic.

No. of Crashes	0
No. of Days	1,825
Entering AADT	2,113

An intersection crash rate can be calculated as follows:

 $CR = (Number\ of\ Crashes\ x\ 10E6)\ /\ (Number\ of\ Days\ x\ Entering\ AADT)$

$$CR = (0 \times 10E6) / (1825 \times 2113) =$$
0.00

The crash severity is shown in the following table.

Severity Rating	2017	2018	2019	2020	2021	Total
Fatality	0	0	0	0	0	0
Disabling Injury	0	0	0	0	0	0
Minor Injury	0	0	0	0	0	0
Property Damage Only	0	0	0	0	0	0
Total	0	0	0	0	0	0

The crash classes are shown in the following table.

Crash Class	2017	2018	2019	2020	2021	Total
All Classes	0	0	0	0	0	0
Total	0	0	0	0	0	0

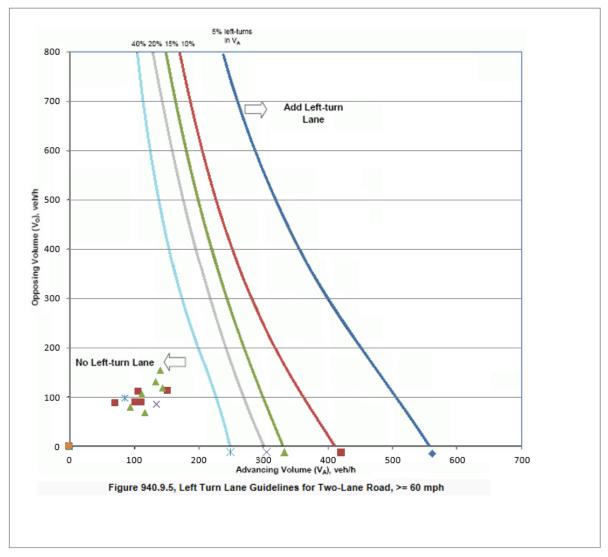
Left Turn Lane Warrant - US 60 Eastbound

Traffic Volume Information:

A 13-hour traffic count was conducted at the intersection on August 25, 2021. Traffic was counted from 6:00 a.m. to 7:00 p.m.

During this time period there were a total of 127 eastbound US 60 to northbound RT W left turning vehicles. The total eastbound volume is 1,458 vehicles. The left turning volume makes up 8.7% of eastbound traffic. The peak hour left turning volume for eastbound traffic was 20 vehicles per hour out of 174 total eastbound vehicles.

60 mph Left Turn Lane Warrant



The dots show where the total volume of westbound traffic and the left turning eastbound volume intersect. The dots fall below the appropriate line for 13 hours counted. **Therefore, the volume warrant for a left turn lane has not been met**.

Five Year Crash Rate Information:

The crash history for the intersection of US 60 and RT M & RT W from January 1, 2017 to December 31, 2021 showed one (1) crash involving left-turning eastbound traffic.

No. of Crashes	1
No. of Days	1,825
Entering AADT	2 113

An intersection crash rate can be calculated as follows:

$$CR = (Number\ of\ Crashes\ x\ 10E6)\ /\ (Number\ of\ Days\ x\ Entering\ AADT)$$

$$CR = (1 \times 10E6) / (1825 \times 2113) =$$
2.59

The crash severity is shown in the following table.

Severity Rating	2017	2018	2019	2020	2021	Total
Fatality	0	0	0	0	0	0
Disabling Injury	0	0	0	0	0	0
Minor Injury	0	0	0	0	0	0
Property Damage Only	0	0	0	0	1	1
Total	0	0	0	0	1	1

The crash classes are shown in the following table.

Crash Class	2017	2018	2019	2020	2021	Total
Rear End	0	0	0	0	1	1
Total	0	0	0	0	1	1

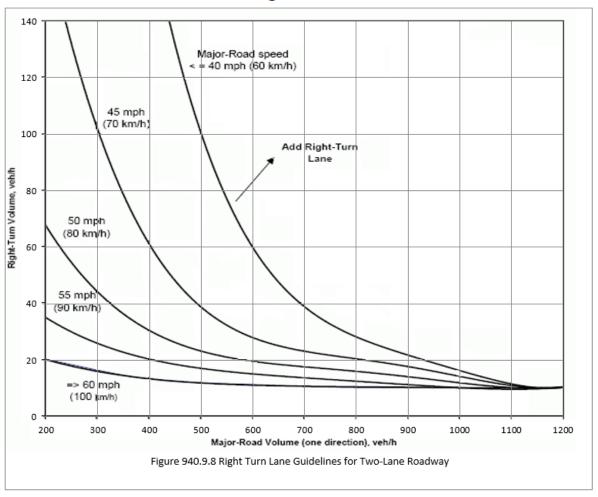
Right Turn Lane Warrant – RT M Northbound

Traffic Volume Information:

A 13-hour traffic count was conducted at the intersection on August 25, 2021. Traffic was counted from 6:00 a.m. to 7:00 p.m.

During this time period there were a total of 210 northbound RT M to eastbound US 60 right turning vehicles. The total northbound volume is 424 vehicles. The right turning volume makes up 49.5% of northbound traffic. The peak hour right turning volume for northbound traffic was 24 vehicles per hour out of 45 total northbound vehicles.

2 Lane Right Turn Lane Chart



The hourly volume never reaches the minimum of 200 veh/h to appear on the chart. **Therefore, the volume warrant for a right turn lane has not been met**.

Five Year Crash Rate Information:

The crash history for the intersection of US 60 and RT M & RT W from January 1, 2017 to December 31, 2021 showed one (1) crash involving right-turning northbound traffic.

No. of Crashes	1
No. of Days	1,825
Entering AADT	493

An intersection crash rate can be calculated as follows:

 $CR = (Number\ of\ Crashes\ x\ 10E6)\ /\ (Number\ of\ Days\ x\ Entering\ AADT)$

$$CR = (1 \times 10E6) / (1825 \times 493) = 11.11$$

The crash severity is shown in the following table.

Severity Rating	2017	2018	2019	2020	2021	Total
Fatality	0	0	0	0	0	0
Disabling Injury	0	0	0	0	0	0
Minor Injury	0	0	0	0	0	0
Property Damage Only	0	0	0	0	1	1
Total	0	0	0	0	1	1

The crash classes are shown in the following table.

Crash Class	2017	2018	2019	2020	2021	Total
Rear End	0	0	0	0	1	1
Total	0	0	0	0	1	1

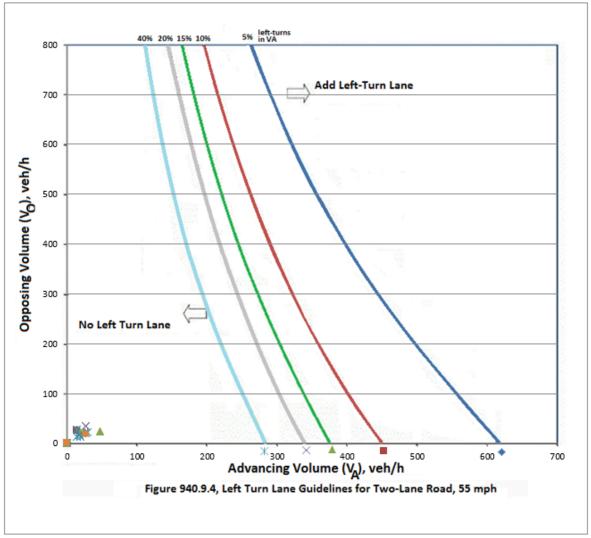
Left Turn Lane Warrant - RT M Northbound

Traffic Volume Information:

A 13-hour traffic count was conducted at the intersection on August 25, 2021. Traffic was counted from 6:00 a.m. to 7:00 p.m.

During this time period there were a total of 136 northbound RT M to westbound US 60 left turning vehicles. The total northbound volume is 424 vehicles. The left turning volume makes up 32.1% of northbound traffic. The peak hour left turning volume for northbound traffic was 20 vehicles per hour out of 44 total northbound vehicles.

55 mph Left Turn Lane Warrant



The dots show where the total volume of southbound traffic and the left turning northbound volume intersect. The dots fall below the appropriate line for 13 hours counted. **Therefore, the volume warrant for a left turn lane has not been met**.

Five Year Crash Rate Information:

The crash history for the intersection of US 60 and RT M & RT W from January 1, 2017 to December 31, 2021 showed zero (0) crashes involving left-turning northbound traffic.

No. of Crashes	0
No. of Days	1,825
Entering AADT	493

An intersection crash rate can be calculated as follows:

 $CR = (Number\ of\ Crashes\ x\ 10E6)\ /\ (Number\ of\ Days\ x\ Entering\ AADT)$

$$CR = (0 \times 10E6) / (1825 \times 493) = \mathbf{0.00}$$

The crash severity is shown in the following table.

Severity Rating	2017	2018	2019	2020	2021	Total
Fatality	0	0	0	0	0	0
Disabling Injury	0	0	0	0	0	0
Minor Injury	0	0	0	0	0	0
Property Damage Only	0	0	0	0	0	0
Total	0	0	0	0	0	0

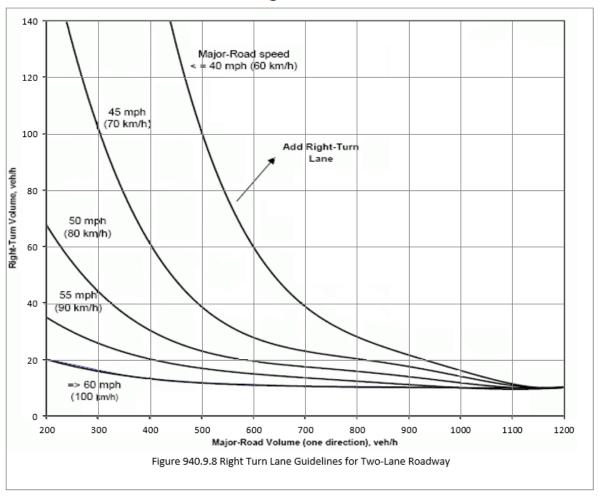
The crash classes are shown in the following table.

Crash Class	2017	2018	2019	2020	2021	Total
All Classes	0	0	0	0	0	0
Total	0	0	0	0	0	0

Right Turn Lane Warrant - RT W Southbound

During this time period there were a total of 116 southbound RT W to westbound US 60 right turning vehicles. The total southbound volume is 287 vehicles. The right turning volume makes up 40.4% of southbound traffic. The peak hour right turning volume for southbound traffic was 22 vehicles per hour out of 47 total southbound vehicles.

2 Lane Right Turn Lane Chart



The hourly volume never reaches the minimum of 200 veh/h to appear on the chart. **Therefore, the volume warrant for a right turn lane has not been met**.

Five Year Crash Rate Information:

The crash history for the intersection of US 60 and RT M & RT W from January 1, 2017 to December 31, 2021 showed zero (0) crashes involving right-turning southbound traffic.

No. of Crashes	0
No. of Days	1,825
Entering AADT	102

An intersection crash rate can be calculated as follows:

 $CR = (Number\ of\ Crashes\ x\ 10E6)\ /\ (Number\ of\ Days\ x\ Entering\ AADT)$

$$CR = (0 \times 10E6) / (1825 \times 102) =$$
0.00

The crash severity is shown in the following table.

Severity Rating	2017	2018	2019	2020	2021	Total
Fatality	0	0	0	0	0	0
Disabling Injury	0	0	0	0	0	0
Minor Injury	0	0	0	0	0	0
Property Damage Only	0	0	0	0	0	0
Total	0	0	0	0	0	0

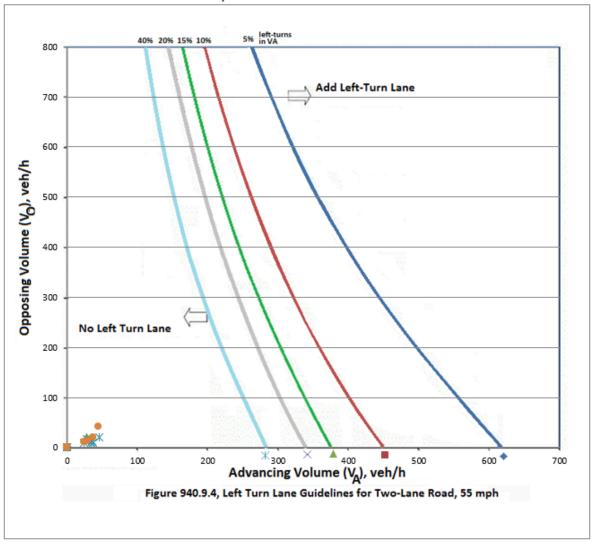
The crash classes are shown in the following table.

Crash Class	2017	2018	2019	2020	2021	Total
All Classes	0	0	0	0	0	0
Total	0	0	0	0	0	0

Left Turn Lane Warrant - RT W Southbound

During this time period there were a total of 66 southbound RT W to eastbound US 60 left turning vehicles. The total southbound volume is 287 vehicles. The left turning volume makes up 23.0% of southbound traffic. The peak hour left turning volume for southbound traffic was 11 vehicles per hour out of 26 total southbound vehicles.

55 mph Left Turn Lane Warrant



The dots show where the total volume of northbound traffic and the left turning southbound volume intersect. The dots fall below the appropriate line for 13 hours counted. **Therefore, the volume warrant for a left turn lane has not been met**.

Five Year Crash Rate Information:

The crash history for the intersection of US 60 and RT M & RT W from January 1, 2017 to December 31, 2021 showed zero (0) crashes involving left-turning southbound traffic.

No. of Crashes	0
No. of Days	1,825
Entering AADT	102

An intersection crash rate can be calculated as follows:

 $CR = (Number \ of \ Crashes \ x \ 10E6) \ / \ (Number \ of \ Days \ x \ Entering \ AADT)$

$$CR = (0 \times 10E6) / (1825 \times 102) =$$
0.00

The crash severity is shown in the following table.

Severity Rating	2017	2018	2019	2020	2021	Total
Fatality	0	0	0	0	0	0
Disabling Injury	0	0	0	0	0	0
Minor Injury	0	0	0	0	0	0
Property Damage Only	0	0	0	0	0	0
Total	0	0	0	0	0	0

The crash classes are shown in the following table.

Crash Class	2017	2018	2019	2020	2021	Total
All Classes	0	0	0	0	0	0
Total	0	0	0	0	0	0

Comments:

There were seven (7) crashes correctable by the addition of a westbound left turn lane at the intersection from January 1, 2017 to December 31, 2021, as well as one (1) crash correctable by the addition of an eastbound left turn lane and one (1) crash correctable by the addition of a northbound right turn lane. The turning movement counts show that the intersection did meet the minimum volume criteria for any left- or right-turning movements. However, due to the rate of crashes correctable by a westbound left turn lane, it is recommended that a westbound left turn lane to be considered in scoping the project along US 60.

Missouri Department of Transportation Southwest District – Traffic Division

(Turn Lane Study)

Location:

US 60 @ RT CC/Y – Neosho, Newton County						
Recommendation:						
It is recommended that this intersection be placed on the traffic needs list for a westbound left turn lane						
and a westbound right turn lane.						
Brittany Mitchell, C.J.T. Study By	8/11/2021 Date					
Comments: I concur with the recommendation in the study.						
Michael R. Bock	08/13/2021					
Supervising Engineer	Date					
Comments: I concur with the recommendations in the study. If at such time in						
option of a roundabout might be explored as an alternative to the	turn lane improvements, weighing the additional					
costs with the added benefit of the roundabout.						
_	9/3/2021					
District Traffic Engineer	Date					
Comments:						
	·					
District Engineer/Assistant District Engineer	Date					



Missouri Department of Transportation

3025 East Kearney Street P.O. Box 868 Springfield, Missouri 65801 417.895.7605

TO: Memo to file

FROM: Brittany Mitchell, E.I.T.

Intermediate Traffic Studies Specialist

DATE: Aug 11, 2021

SUBJECT: Traffic Study

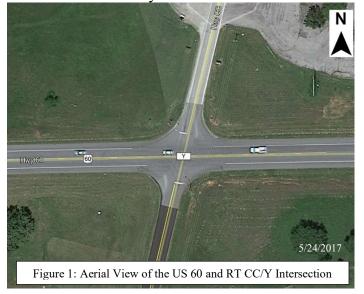
Turn Lane Study US 60 at RT CC/Y Newton County

The purpose of this study is to determine if the intersection of US 60 and RT CC/Y meets the criteria in the Engineering Policy Guide (EPG) for left and/or right turn lanes.

Site Information:

US 60 is an east/west, two-lane roadway with at grade intersections. At its intersection with RT CC/Y, US 60 has a single lane for both the westbound and the eastbound approach. Near the study intersection, the current posted speed limit for US 60 is 60 mph. The southbound leg of the intersection is RT CC. RT CC is a two-lane roadway and has a single lane approach at its intersection with US 60. The northbound leg of the intersection is RT Y. RT Y is a two-lane roadway and has a single lane approach at its intersection with US 60. The intersection is currently two-way stop controlled with stop control on RT CC/Y. Near the study intersection, the current posted speed for RT CC/Y is 55 mph.

The following is an aerial view of the study intersection:





Our mission is to provide a world-class transportation system that is safe, innovative, reliable and dedicated to a prosperous Missouri.

Traffic Volume Information

A 13-hour traffic count was performed at the intersection on Wednesday, July 21, 2021. Traffic was counted from 6:00 a.m. to 7:00 p.m. Traffic Volumes are summarized as needed for turn lane warrants in the following tables.

Eastbound Left

ulid Lett				
Hour Count	Advancing Volume (veh/hr)	Left Turning Volume (veh/hr)	% LT Advancing Traffic (%)	Opposing Volume (veh/hr)
6-7 am	124	5	4%	96
7-8 am	164	8	5%	172
8-9 am	137	10	7%	145
9-10 am	140	13	9%	170
10-11 am	167	4	2%	198
11-12 pm	183	10	5%	201
12-1 pm	166	9	5%	243
1-2 pm	197	12	6%	229
2-3 pm	199	10	5%	204
3-4 pm	243	11	5%	241
4-5 pm	231	19	8%	296
5-6 pm	223	19	9%	289
6-7 pm	174	11	6%	222

Advancing Volume (veh/hr) - The advancing volume includes the right-turn, left-turn and through movements in the same direction as the left turning vehicle.

Opposing Volume (veh/hr) - The opposing volume is to include only the right-turn and through movements in the opposite direction of the left turning vehicle.

Eastbound Right

Hour Count	Advancing Volume (veh/hr)	Right Turning Volume (veh/hr)
6-7 am	124	0
7-8 am	164	0
8-9 am	137	4
9-10 am	140	2
10-11 am	167	8
11-12 pm	183	4
12-1 pm	166	6
1-2 pm	197	2

2-3 pm	199	0
3-4 pm	243	5
4-5 pm	231	3
5-6 pm	223	1
6-7 pm	174	4

Advancing Volume (veh/hr) - The advancing volume is to include the right-turn, left-turn and through movements in the same direction as the right turning vehicle.

Westbound Left

Hour Count	Advancing Volume (veh/hr)	Left Turning Volume (veh/hr)	% LT Advancing Traffic (%)	Opposing Volume (veh/hr)
6-7 am	97	1	1%	119
7-8 am	175	3	2%	156
8-9 am	150	5	3%	127
9-10 am	177	7	4%	127
10-11 am	212	14	7%	163
11-12 pm	214	13	6%	173
12-1 pm	257	14	5%	157
1-2 pm	250	20	8%	185
2-3 pm	214	10	5%	189
3-4 pm	271	30	11%	232
4-5 pm	316	20	6%	212
5-6 pm	310	21	7%	204
6-7 pm	243	21	9%	163

Advancing Volume (veh/hr) - The advancing volume includes the right-turn, left-turn and through movements in the same direction as the left turning vehicle.

Opposing Volume (veh/hr) - The opposing volume is to include only the right-turn and through movements in the opposite direction of the left turning vehicle.

Westbound Right

Hour Count	Advancing Volume (veh/hr)	Right Turning Volume (veh/hr)
6-7 am	97	7
7-8 am	175	11
8-9 am	150	11
9-10 am	177	7
10-11 am	212	9

11-12 pm	214	14
12-1 pm	257	18
1-2 pm	250	19
2-3 pm	214	20
3-4 pm	271	32
4-5 pm	316	40
5-6 pm	310	23
6-7 pm	243	28

Advancing Volume (veh/hr) - The advancing volume is to include the right-turn, left-turn and through movements in the same direction as the right turning vehicle.

Northbound Left

Hour Count	Advancing Volume (veh/hr)	Left Turning Volume (veh/hr)	% LT Advancing Traffic (%)	Opposing Volume (veh/hr)
6-7 am	35	4	11%	27
7-8 am	45	4	9%	23
8-9 am	45	1	2%	32
9-10 am	24	3	13%	22
10-11 am	34	5	15%	25
11-12 pm	25	4	16%	28
12-1 pm	31	4	13%	30
1-2 pm	43	2	5%	38
2-3 pm	24	2	8%	33
3-4 pm	35	3	9%	40
4-5 pm	40	1	3%	59
5-6 pm	50	5	10%	45
6-7 pm	27	4	15%	57

Advancing Volume (veh/hr) - The advancing volume includes the right-turn, left-turn and through movements in the same direction as the left turning vehicle.

Opposing Volume (veh/hr) - The opposing volume is to include only the right-turn and through movements in the opposite direction of the left turning vehicle.

Northbound Right

Hour Count	Advancing Volume (veh/hr)	Right Turning Volume (veh/hr)
6-7 am	35	13
7-8 am	45	19

8-9 am	45	28
9-10 am	24	12
10-11 am	34	16
11-12 pm	25	11
12-1 pm	31	16
1-2 pm	43	20
2-3 pm	24	9
3-4 pm	35	13
4-5 pm	40	21
5-6 pm	50	20
6-7 pm	27	9

Advancing Volume (veh/hr) - The advancing volume is to include the right-turn, left-turn and through movements in the same direction as the right turning vehicle.

Southbound Left

Journa Lett		Ι.Δ	0/ I T	
Hour Count	Advancing Volume (veh/hr)	Left Turning Volume (veh/hr)	% LT Advancing Traffic (%)	Opposing Volume (veh/hr)
6-7 am	34	21	62%	31
7-8 am	32	17	53%	41
8-9 am	42	28	67%	44
9-10 am	29	14	48%	21
10-11 am	34	12	35%	29
11-12 pm	40	13	33%	21
12-1 pm	41	17	41%	27
1-2 pm	49	20	41%	41
2-3 pm	44	22	50%	22
3-4 pm	51	22	43%	32
4-5 pm	86	26	30%	39
5-6 pm	63	16	25%	45
6-7 pm	78	26	33%	23

Advancing Volume (veh/hr) - The advancing volume includes the right-turn, left-turn and through movements in the same direction as the left turning vehicle.

Opposing Volume (veh/hr) - The opposing volume is to include only the right-turn and through movements in the opposite direction of the left turning vehicle.

Southbound Right

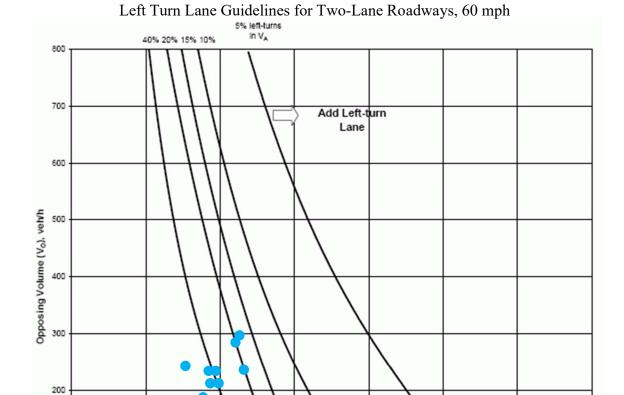
Hour Count	Advancing Volume (veh/hr)	Right Turning Volume (veh/hr)
6-7 am	34	7
7-8 am	32	9
8-9 am	42	10
9-10 am	29	7
10-11 am	34	9
11-12 pm	40	12
12-1 pm	41	11
1-2 pm	49	11
2-3 pm	44	11
3-4 pm	51	11
4-5 pm	86	27
5-6 pm	63	18
6-7 pm	78	21

Advancing Volume (veh/hr) - The advancing volume is to include the right-turn, left-turn and through movements in the same direction as the right turning vehicle.

Turn Lanes Evaluation

No Left-turn Lane

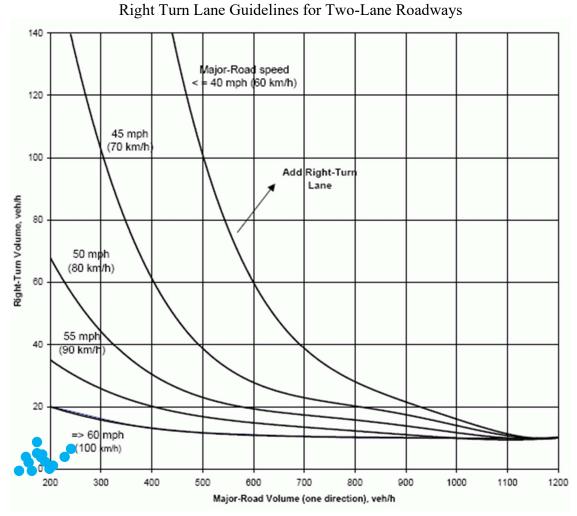
Eastbound Left



The blue dots represent traffic conditions for all hours that traffic volumes were collected. The highest percent of left turns in advancing traffic is 9%. The percent of left turning traffic is rounded up to the nearest percentage trendline, therefore the 10% line is used. All traffic volumes fall to the left of the 10% line and the warrant for a left turn lane is not **met.**

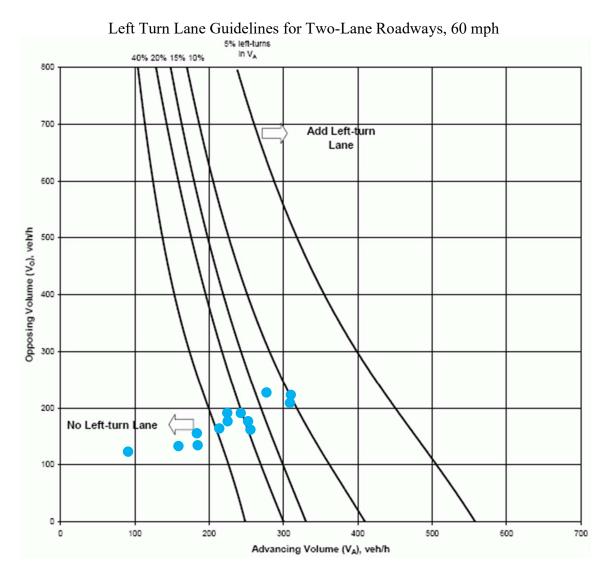
Advancing Volume (VA), veh/h

Eastbound Right



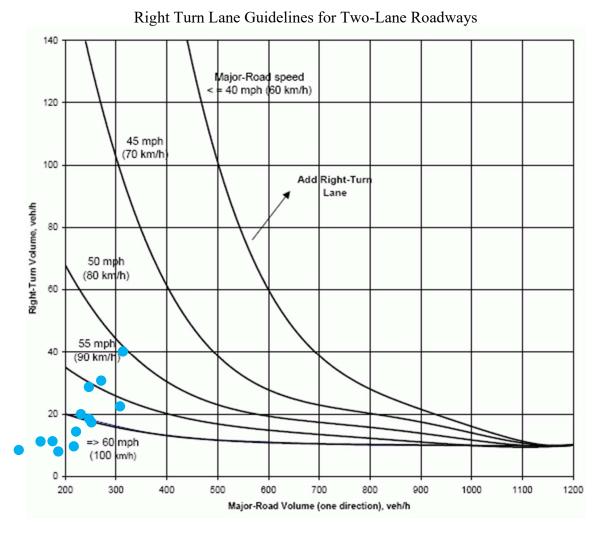
The blue dots represent traffic conditions for all hours that traffic volumes were collected. All points fall below the line for 60 mph and therefore the volume warrant for a right turn lane is **not met.**

Westbound Left



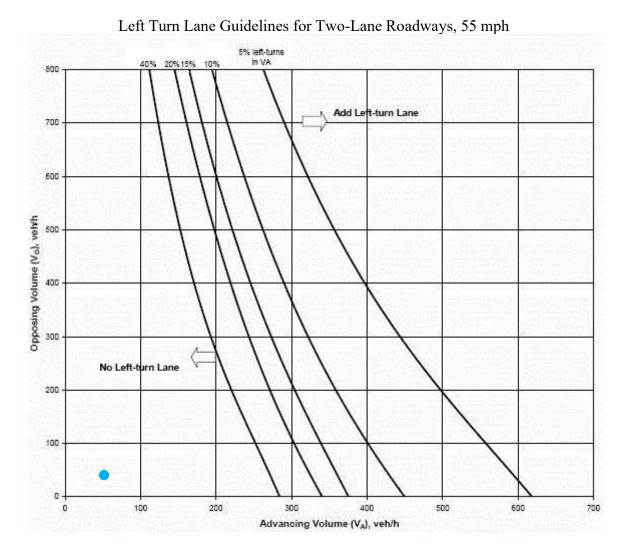
The blue dots represent traffic conditions for all hours that traffic volumes were collected. The average percent of left turns in advancing traffic and the percentage of left turns in advancing traffic during the peak hour is 6%. The percent of left turning traffic is rounded up to the nearest percentage trendline, therefore the 10% line is used. The point representing the peak hour falls on the 10% line and the warrant for a left turn lane is **met.**

Westbound Right



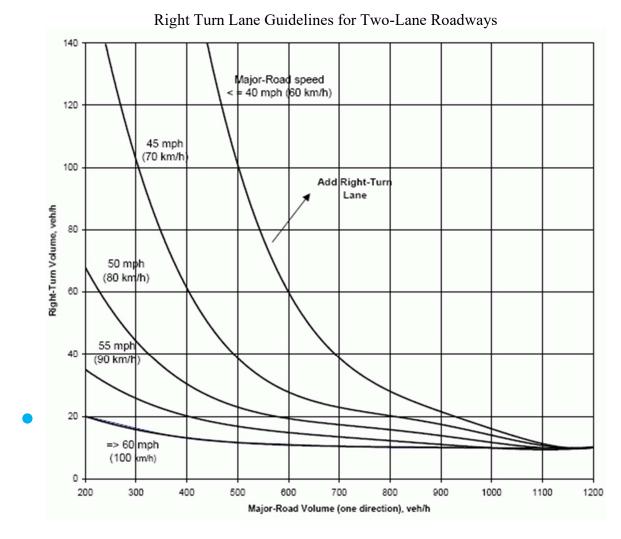
The blue dots represent traffic conditions for all hours that traffic volumes were collected. Several points fall above the line for 60 mph and therefore the volume warrant for a westbound right turn lane is **met.**

Northbound Left



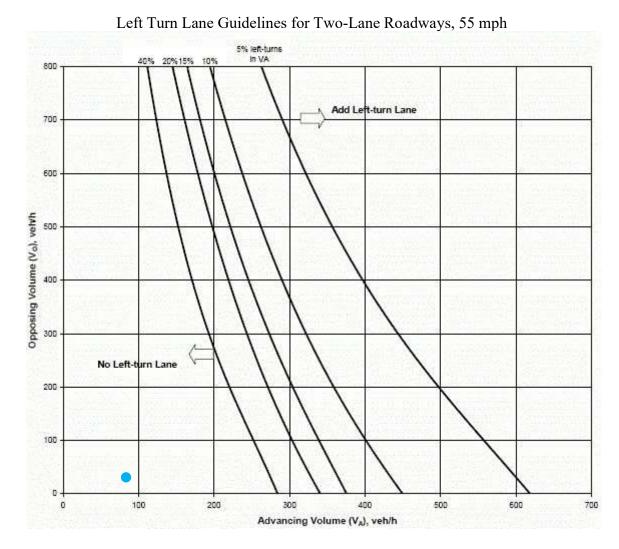
The blue dot represents the Northbound peak hour traffic conditions (5-6 pm). The peak hour percent of left turns in advancing traffic is 10%. The peak traffic volumes fall to the left of the 10% line and the warrant for a left turn lane is **not met.**

Northbound Right



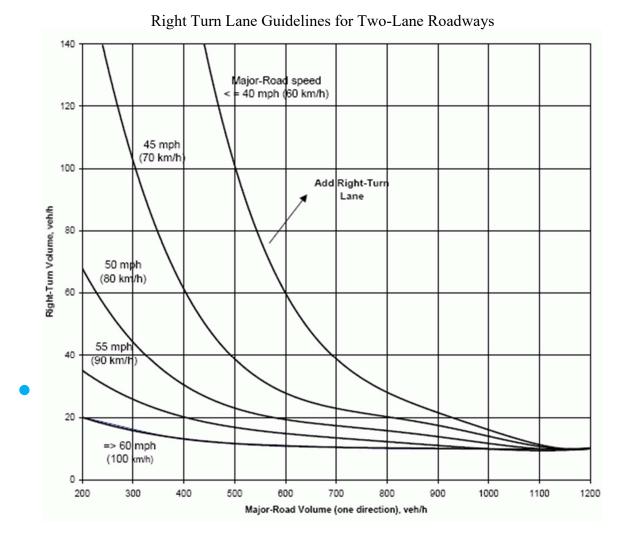
The blue dot represents the Northbound Peak Hour (5-6 pm) traffic conditions. This point falls below the line for 55 mph and therefore the volume warrant for a right turn lane is **not met.**

Southbound Left



The blue dot represents the Southbound peak hour traffic conditions (4-5 pm). The peak hour percent of left turns in advancing traffic is 30%. The percent of left turning traffic is rounded up to the nearest percentage trendline, therefore the 40% line is used. The peak traffic volumes fall to the left of the 40% line and the warrant for a left turn lane is not **met.**

Southbound Right



The blue dot represents the Southbound Peak Hour (4-5 pm) traffic conditions. This point falls below the line for 55 mph and therefore the volume warrant for a right turn lane is **not met.**

Five Year Crash Rate Information

Below is the crash history for the intersection of US 60 and RT CC/Y from January 1, 2016 to December 31, 2020. The intersection showed 15 total crashes.

No. Crashes	15
No. of Days	1825
Entering AADT	9054

An intersection crash rate can be calculated using the formula below.

$$CR = (number\ of\ crashes \times 10^6)\ /\ (No.\ of\ Days \times Entering\ AADT)$$

$$CR = (15 \times 10^6) / (1825 \times 9054) = 0.91$$

Severity Rating	2016	2017	2018	2019	2020	Total
Fatality	0	0	0	0	0	0
Serious Injury	0	1	0	1	0	2
Minor Injury	0	2	0	2	1	5
Property Damage Only	3	2	0	1	2	8
Total	3	5	0	4	3	15

Most of the 15 crashes were right angle crashes due to NB or SB failing to yield. However, 2 crashes were rear ends that involved vehicles turning off US 60. In these 2 crashes, one WBL vehicle got struck from behind and one WBR vehicle got struck from behind.

Comments/Recommendations

The traffic volumes at the intersection of US 60 and RT CC/Y warrant the installation of a westbound left turn lane and a westbound right turn lane.

Your Company Name Here This is your address Your City, State, Zip Code

Your Tagline Here

File Name: 0214_60_CC_Y_Neosho_July2021

Site Code: 0214 Start Date : 7/21/2021

Page No : 1

Groups Printed- All Vehicles	(no classification))
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			RT CC/Y	*				US 60				Northb	ound App	roach				US 60			
			outhbour				14	estbound	4			N. C. C. D.	lorthbound	1				astbound	ı		
Start Time	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left L	J-Turn A	pp. Total	Right	Thru	Left l	J-Turn	App. Total	Int. Total
06:00 AM	2	1	6	0	9	2	17	0	0	19	4	2	1	0	7	0	26	2	0	28	63
06:15 AM	1	1	7	0	9	1	23	0	0	24	2	8	2	0	12	0	29	1	0	30	75
06:30 AM	1	2	2	Ô	5	1	26	0	0	27	4	3	1	Õ	8	0	37	2	n	39	79
	1	_	_	0	-	1	_	1	0		•	•		0	-	•	-	_	0		
06:45 AM	3	2	6		11	3	23			27	3_	5_	0		8	0	27	0		27	73
Total	7	6	21	0	34	7	89	1	0	97	13	18	4	0	35	0	119	5	0	124	290
07:00 AM	2	2	5	0	9	6	38	0	0	44	7	1	0	0	8	0	32	1	0	33	94
07:15 AM	1	0	4	0	5	0	37	0	0	37	2	10	0	0	12	0	37	2	0	39	93
07:30 AM	2	2	4	0	8	2	33	1	0	36	6	8	1	0	15	0	43	3	0	46	105
07:45 AM	4	2	4	0	10	3	53	2	0	58	4	3	3	0	10	0	44	2	0	46	124
			17		32	<u>3</u> 11	<u>55</u> 161		0	175		22	<u>3</u>	0	45		156		0		416
Total	9	6	17	0	32	11	101	3	U	1/5	19	22	4	U	45	0	150	8	U	164	416
1										1					1						
08:00 AM	1	1	10	0	12	1	26	2	0	29	7	2	0	0	9	2	23	2	0	27	77
08:15 AM	3	2	9	0	14	3	40	2	0	45	5	1	1	0	7	1	36	3	0	40	106
08:30 AM	2	0	5	0	7	4	34	0	0	38	8	7	0	0	15	1	27	3	0	31	91
08:45 AM	4	1	4	0	9	3	34	1	0	38	8	6	0	Ô	14	0	37	2	0	39	100_
													1								
Total	10	4	28	0	42	11	134	5	0	150	28	16	1	0	45	4	123	10	0	137	374
										1											
09:00 AM	3	0	4	0	7	3	28	5	0	36	3	2	0	0	5	1	27	4	0	32	80
09:15 AM	1	0	7	0	8	3	42	2	0	47	5	0	1	0	6	1	38	5	0	44	105
09:30 AM	3	1	1	0	5	0	46	0	0	46	2	3	1	0	6	0	34	1	0	35	92
09:45 AM	0	7	2	0	9	1	47	0	0	48	2	4	1	Ô	7	0	26	3	0	29	93_
Total	7	8	14	0	29	7	163	7	0	177	12	9	3	0	24	2	125	13	0	140	370
Total	,	0	14	U	29	,	103	,	U	177	12	9	3	U	24	2	125	13	U	140	370
	_	_	_	_	= 1	_		_	_	1	_	_	_	_	_ 1	_		_	_	1	
10:00 AM	1	2	2	0	5	3	52	3	0	58	3	2	2	0	7	3	28	1	0	32	102
10:15 AM	2	4	4	0	10	3	44	3	0	50	0	5	0	0	5	0	35	1	0	36	101
10:30 AM	0	5	4	0	9	1	48	4	0	53	9	4	1	0	14	2	51	2	0	55	131
10:45 AM	6	2	2	Ô	10	2	45	4	0	51	4	2	2	Ö	8	3	41	0	0	44	113
Total	9	13	12	0	34	9	189	14	0	212	16	13	5	0	34	8	155	4	0	167	447
Total	9	13	12	U	34	9	109	14	U	212	10	13	5	U	34	0	100	4	U	107	447
	_		_	_		_		_	_	1		_		_	_ 1	_		_	_		
11:00 AM	3	4	3	0	10	3	38	0	0	41	4	2	1	0	7	0	39	2	0	41	99
11:15 AM	3	2	4	0	9	2	52	5	0	59	3	4	2	0	9	0	48	3	0	51	128
11:30 AM	4	3	3	0	10	3	44	3	0	50	3	2	1	0	6	0	38	2	0	40	106
11:45 AM	2	6	3	0	11	6	53	5	0	64	1	2	0	0	3	4	44	3	0	51	129
Total	12	15	13	0	40	14	187	13	0	214	11	10	4	0	25	4	169	10	0	183	462
rotar				Ŭ	.0		101	.0	·	,	• •			Ü	20	•	100		Ŭ	100	102
12:00 PM	2	1	5	0	11	2	E 1	3	0	5 0	5	0	2	0	7	1	15	4	0	47	124
	2	4	-	-	1	2	54		-	59	_	-		-	- 1	ı	45	1	-	47	
12:15 PM	2	2	8	0	12	5	55	2	0	62	4	4	1	0	9	2	31	3	0	36	119
12:30 PM	4	1	1	0	6	4	53	3	0	60	3	4	0	0	7	1	37	3	0	41	114
12:45 PM	3	6	3	0	12	7	63	6	0	76	4	3	1	0	8	2	38	2	0	42	138
Total	11	13	17	0	41	18	225	14	0	257	16	11	4	0	31	6	151	9	0	166	495
i Stai		.0	.,	5	411	.0	220	1-7	J	201	.5		7	J	011	0		J	J	100	400

Your Company Name Here This is your address Your City, State, Zip Code

Your Tagline Here

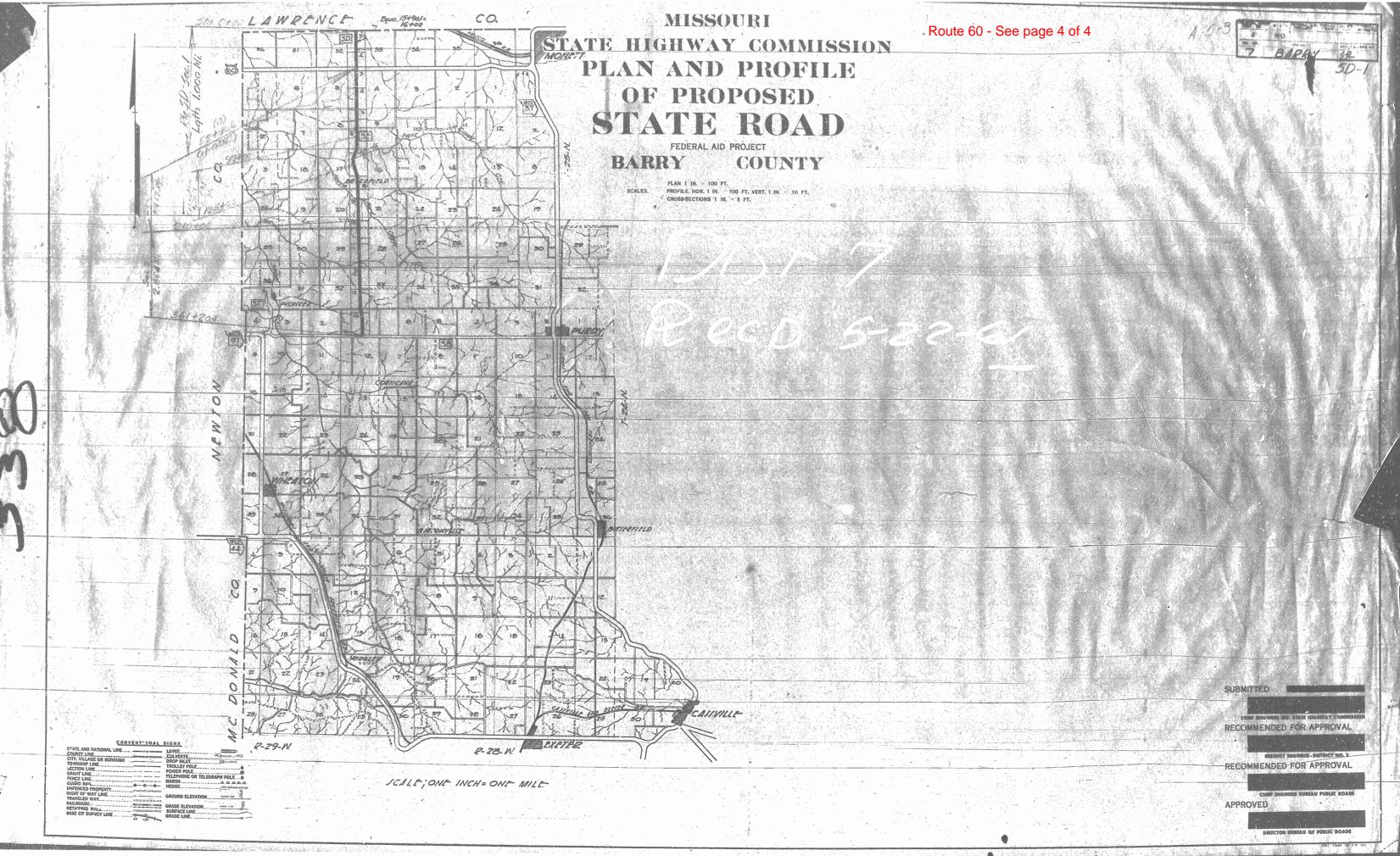
File Name: 0214_60_CC_Y_Neosho_July2021

Site Code: 0214 Start Date : 7/21/2021

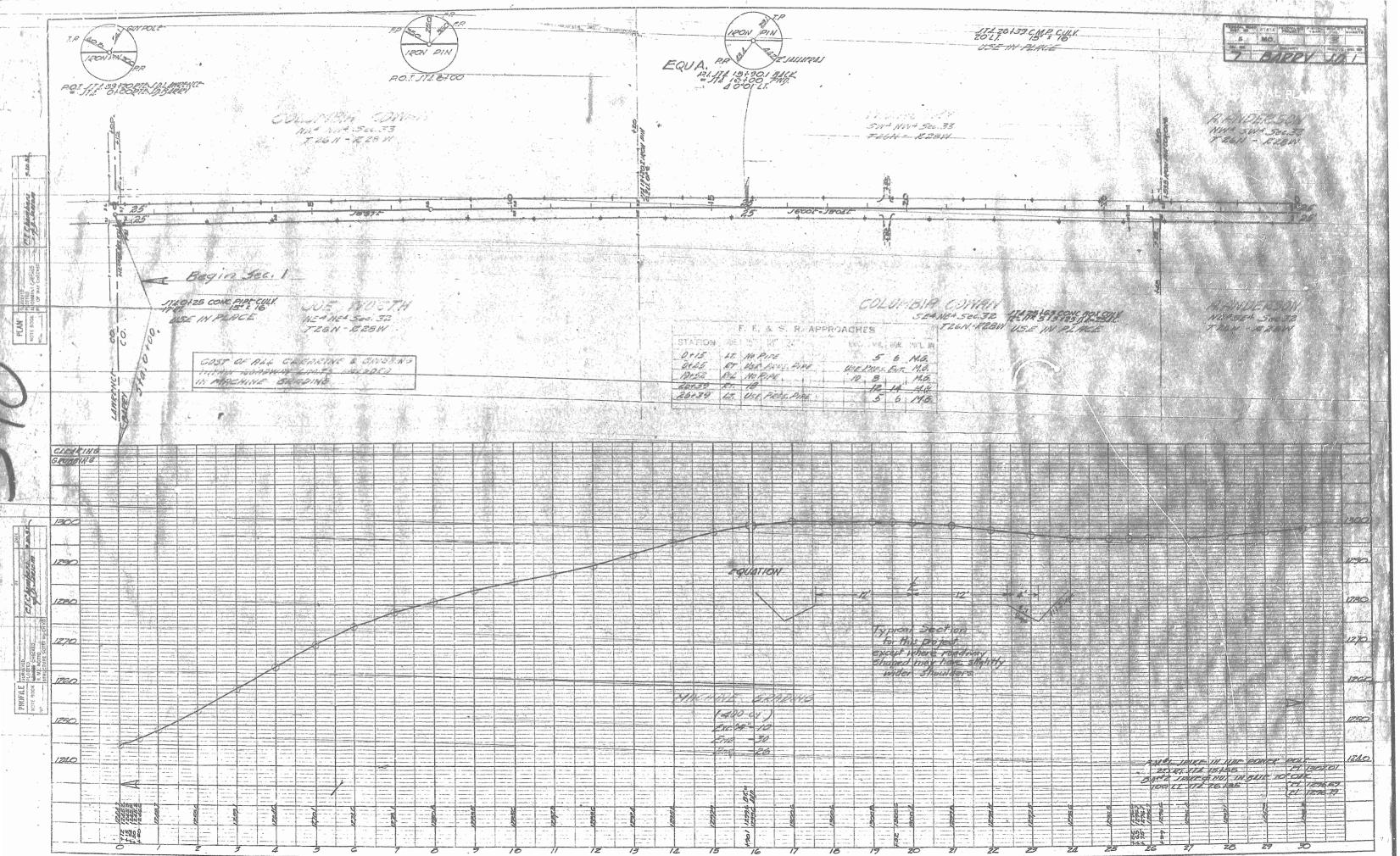
Page No : 2

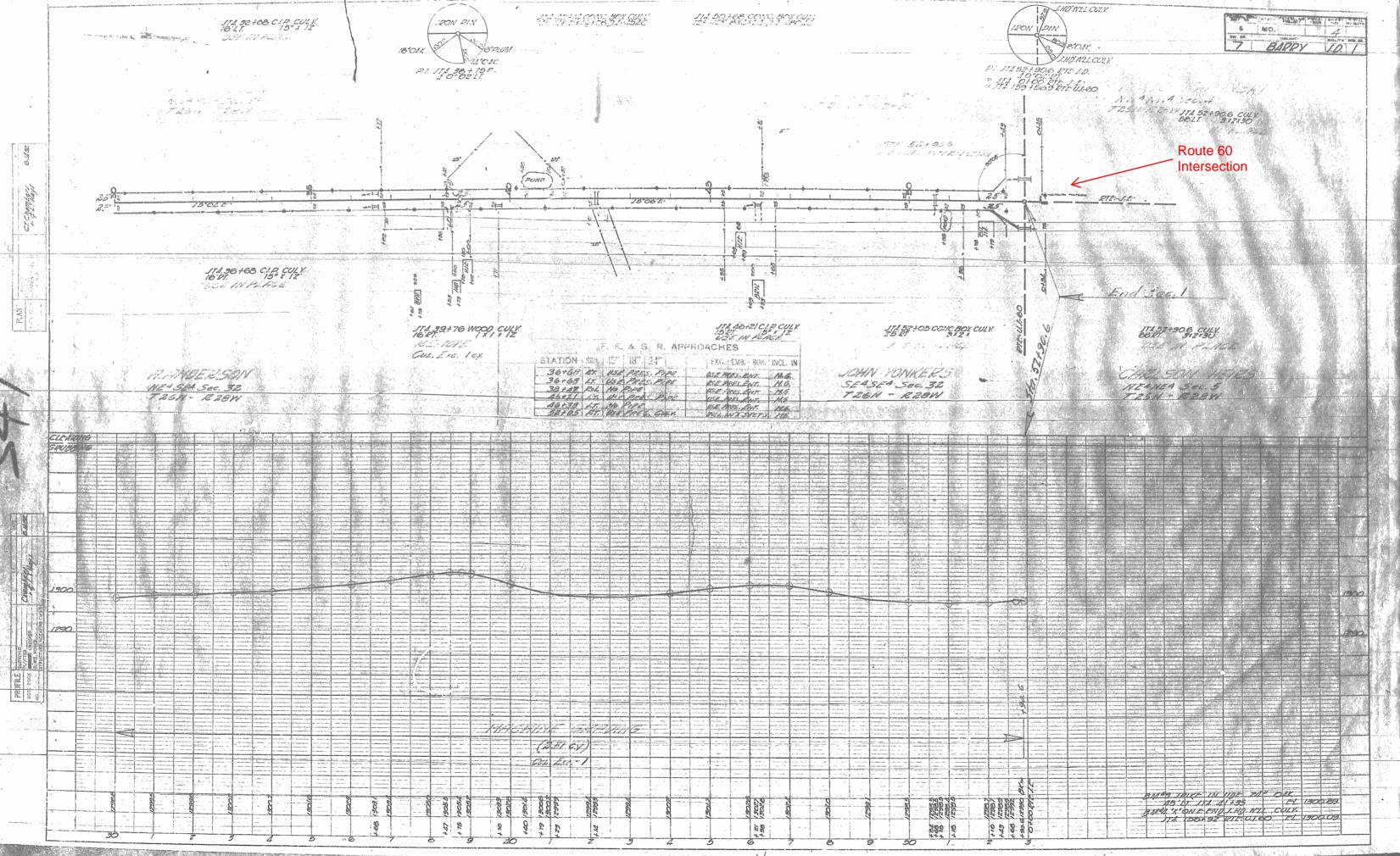
Groups Printed- All Vehicles (no classification)

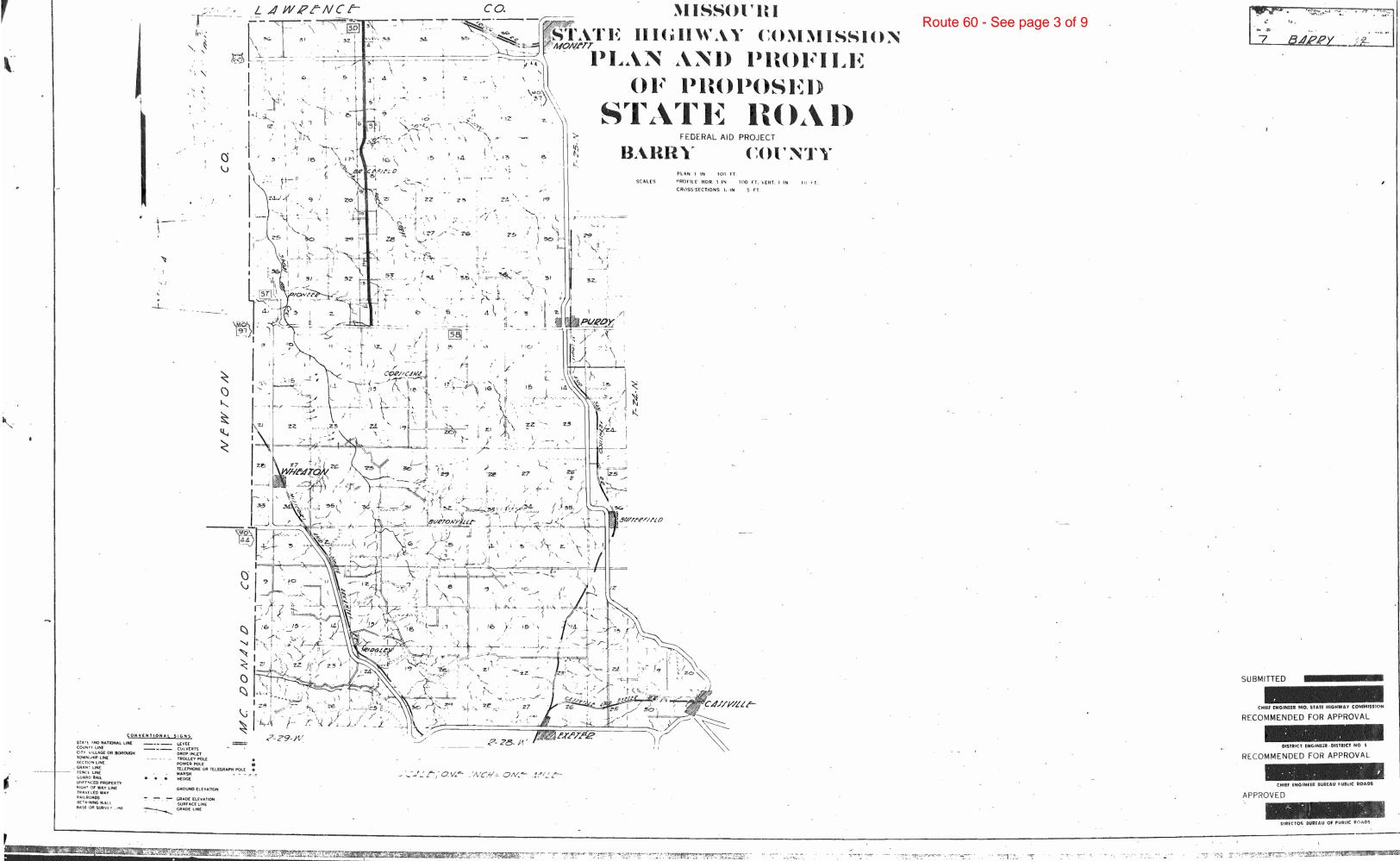
			RT CC/Y					US 60				Northb	ound Ap	proach				US 60			ľ
		Sc	<u>outhbour</u>				<u></u>	Vestbour	nd			<u>N</u>	<u>lorthboui</u>	nd			F	Eastboun			
Start Time	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left		App. Total	Right	Thru			App. Total	Right	Thru		U-Turn	App. Total	Int. Total
01:00 PM	2	5	4	0	11	5	56	4	0	65	7	5	0	0	12	1	43	2	0	46	134
01:15 PM	3	3	8	0	14	2	56	5	0	63	2	7	2	0	11	0	53	5	0	58	146
01:30 PM	5	6	6	0	17	5	50	10	1	66	7	8	0	0	15	0	48	4	0	52	150
01:45 PM	1_	4	2	0	7	7	48	1	0	56	4	1_	0	0	5	1	39	1_	0	41	109
Total	11	18	20	0	49	19	210	20	1	250	20	21	2	0	43	2	183	12	0	197	539
02:00 PM	2	4	1	0	7	6	54	1	0	61	3	4	1	0	8	0	47	2	0	49	125
02:15 PM	2	2	7	0	11	4	41	3	0	48	3	2	0	0	5	0	50	3	0	53	117
02:30 PM	4	3	5	0	12	6	41	3	0	50	3	5	0	0	8	0	40	4	0	44	114
02:45 PM	3	2	9	0	14	4	48	3	0	55	Ō	2	1	0	3	0	52	1	0	53	125
Total	11	11	22	0	44	20	184	10	0	214	9	13	2	0	24	0	189	10	0	199	481
03:00 PM	2	6	7	0	15	4	53	5	0	62	2	6	0	0	8	0	47	3	0	50	135
03:15 PM	2	4	7	0	13	9	43	7	0	59	4	7	1	0	12	0	68	4	0	72	156
03:30 PM	1	5	3	0	9	7	57	6	0	70	5	3	2	0	10	4	57	3	0	64	153
03:45 PM	6	3	5	0	14	12	56	12	0	80	2	3	0	0	5	1	55	1_	0	57	156
Total	11	18	22	0	51	32	209	30	0	271	13	19	3	0	35	5	227	11	0	243	600
04:00 PM	7	12	4	0	23	12	60	3	0	75	9	2	0	0	11	1	59	1	0	61	170
04:15 PM	7	6	9	0	22	9	68	11	0	88	4	3	0	0	7	0	40	7	0	47	164
04:30 PM	6	6	6	0	18	12	63	2	0	77	5	6	1	0	12	2	64	3	0	69	176
04:45 PM	7	9	7	0	23	7	65	4	0	76	3	7	0	0	10	0	46	8	0	54	163
Total	27	33	26	0	86	40	256	20	0	316	21	18	1	0	40	3	209	19	0	231	673
05:00 PM	5	7	1	0	13	6	61	3	0	70	3	7	1	0	11	0	54	7	0	61	155
05:15 PM	3	4	8	0	15	5	85	4	0	94	3	4	3	0	10	0	61	4	Ü	65	184
05:30 PM	5	9	2	Ü	16	5	66	8	0	79	9	9	1	0	19	0	41	2	Ü	43	157
05:45 PM	5_	9_	5	0	19	7	54	6	0	67	5	5	0	0	10	11	47	6	0	54	150
Total	18	29	16	0	63	23	266	21	0	310	20	25	5	0	50	1	203	19	0	223	646
06:00 PM	4	8	8	0	20	12	57	6	0	75	3	5	2	0	10	1	39	5	0	45	150
06:15 PM	5	10	8	0	23	3	55	6	0	64	3	3	2	0	8	1	36	3	0	40	135
06:30 PM	6	6	6	0	18	7	51	4	0	62	1	1	0	1	3	0	37	1	0	38	121
06:45 PM	6	7	4	0	17	6	31	5	0	42	2	4	0	0	6	2	47	2	0	51	116
Total	21	31	26	0	78	28	194	21	0	243	9	13	4	1	27	4	159	11	0	174	522
Grand Total	164	205	254	0	623	239	2467	179	1	2886	207	208	42	1	458	39	2168	141	0	2348	6315
Apprch %	26.3	32.9	40.8	0	020	8.3	85.5	6.2	0	2000	45.2	45.4	9.2	0.2	450	1.7	92.3	6	0	2070	1
Total %	2.6	3.2	4	0	9.9	3.8	39.1	2.8	0	45.7	3.3	3.3	0.7	0.2	7.3	0.6	34.3	2.2	0	37.2	İ
. 0 (0. 70		- ·-	•	•	0.0	0.0			•		0.0	0.0	٠	•		0.0	0		•	· · · -	a contract of the contract of



County of BARRY MISSOURI STATE HIGHWAY COMMISSION Name of road Poute 60 no to Lawrence Co. Line Length /. OOO Miles Type of Improvement 20: G.Earth. **FSTIMATE SHEET** REINFORCED CONCRETE BOX CULVERTS LENGTH OF PROJECT EXCAVATION LENGTH CONCRETE Med. 1 TOTAL UNITS NO. UNITS Sto CIA Bor Hoh Greek End of Project 52+906 Beginning of Project Station 0+00 0100 I-D CI. A Excav. Culd 5290.6 Feet Apparent Length Equations and lime 521984 10 26 5281 PIPE CULVERT F. C.I.W. Excav CL.YA 15+90.1 = 16+00 I-N Mach Grad 9. Lin. Fr 57.81
FW Pick-U.o Rock C. M. 25
18 D 18 Gran Metal Pipe Cilha Lin. Fr 18 W.W. 25 PICKUP RICK.
25 cuyds -9.9 Feet 5280.7 Feet Total Corrections 39+76 Removal. Net Length of Project 5280.7 Feet : 5280 4 1.000 Miles





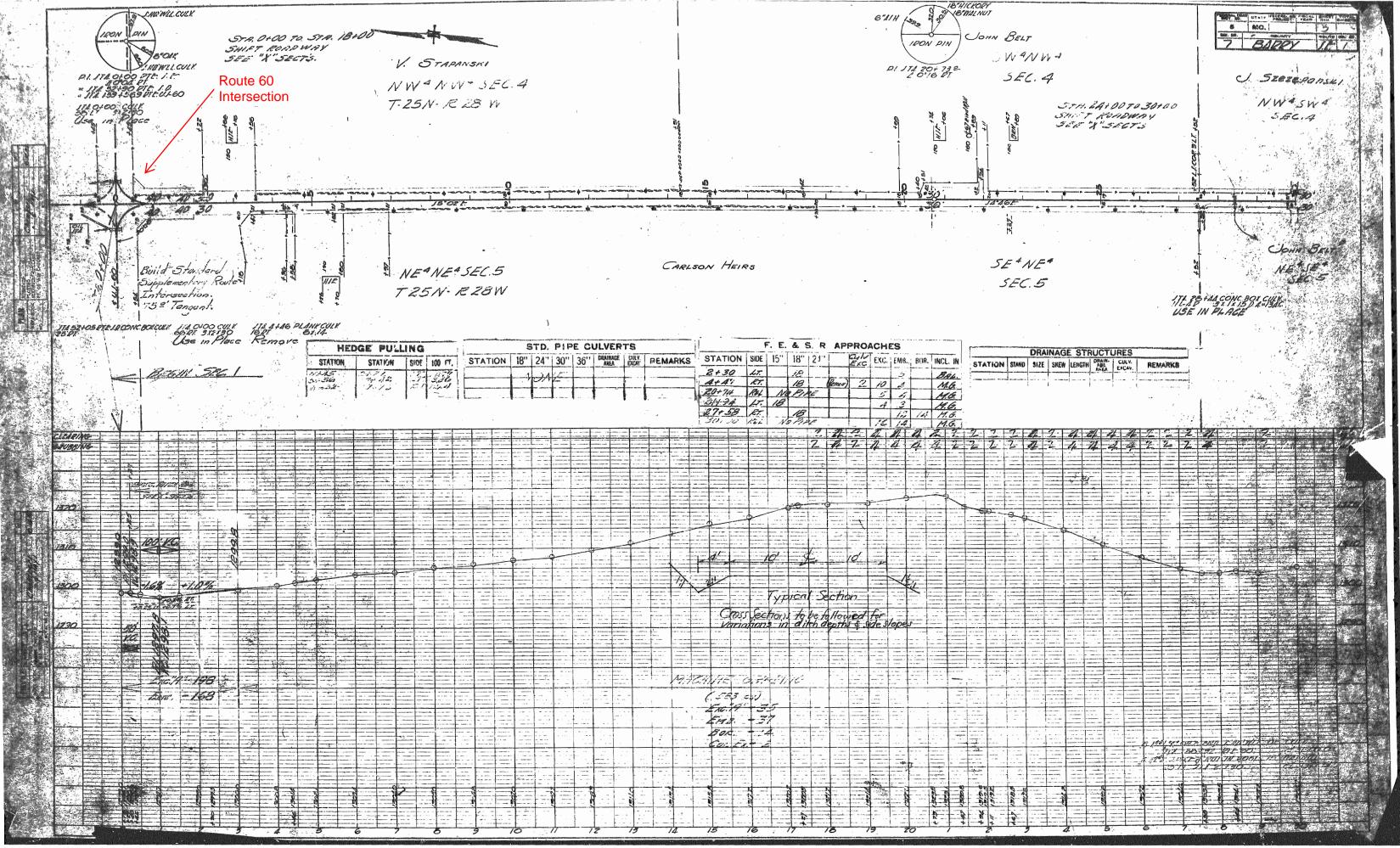


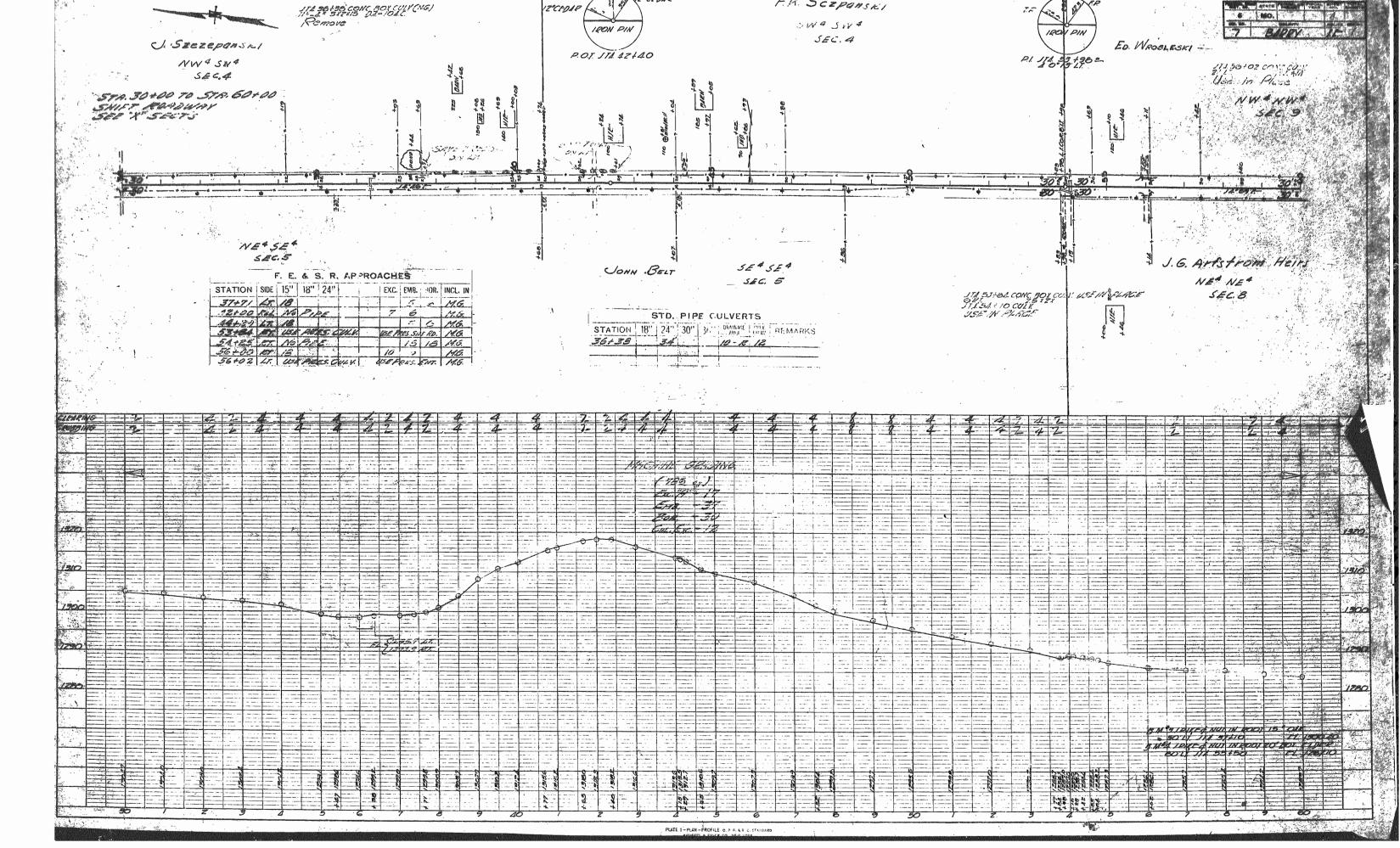
Name of road KOUTE OU DOUTH TO KUUTE D

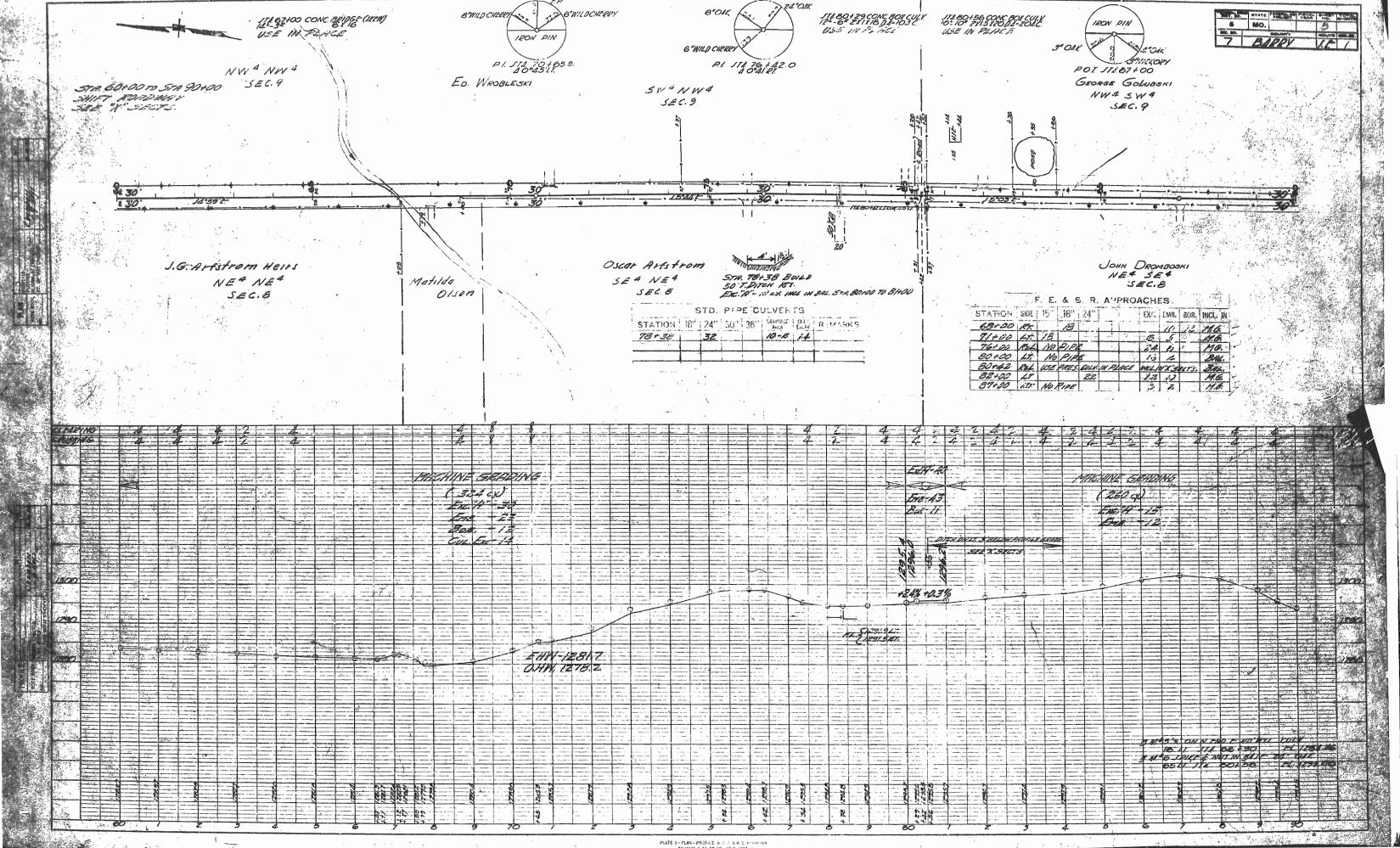
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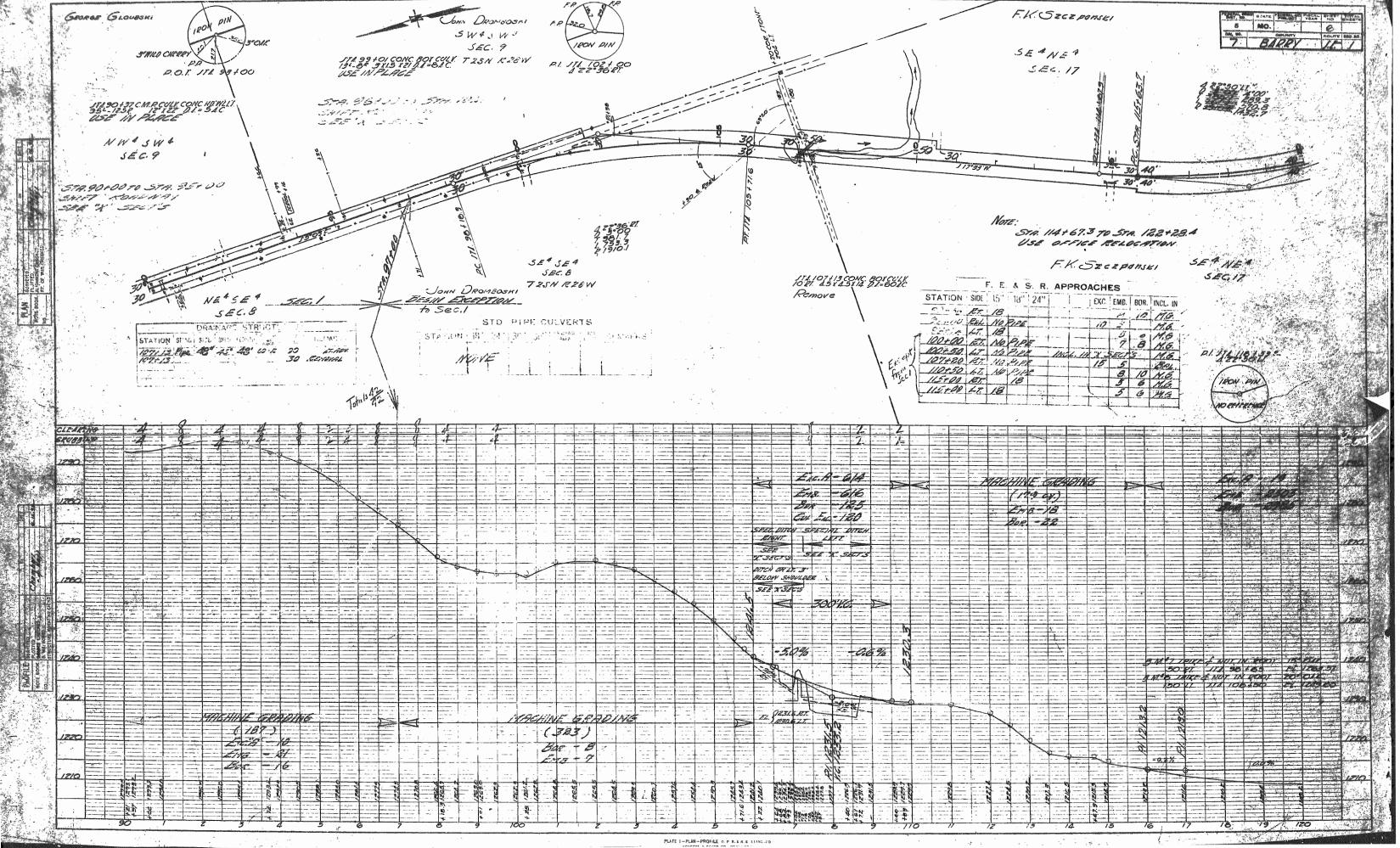
County of BARRY

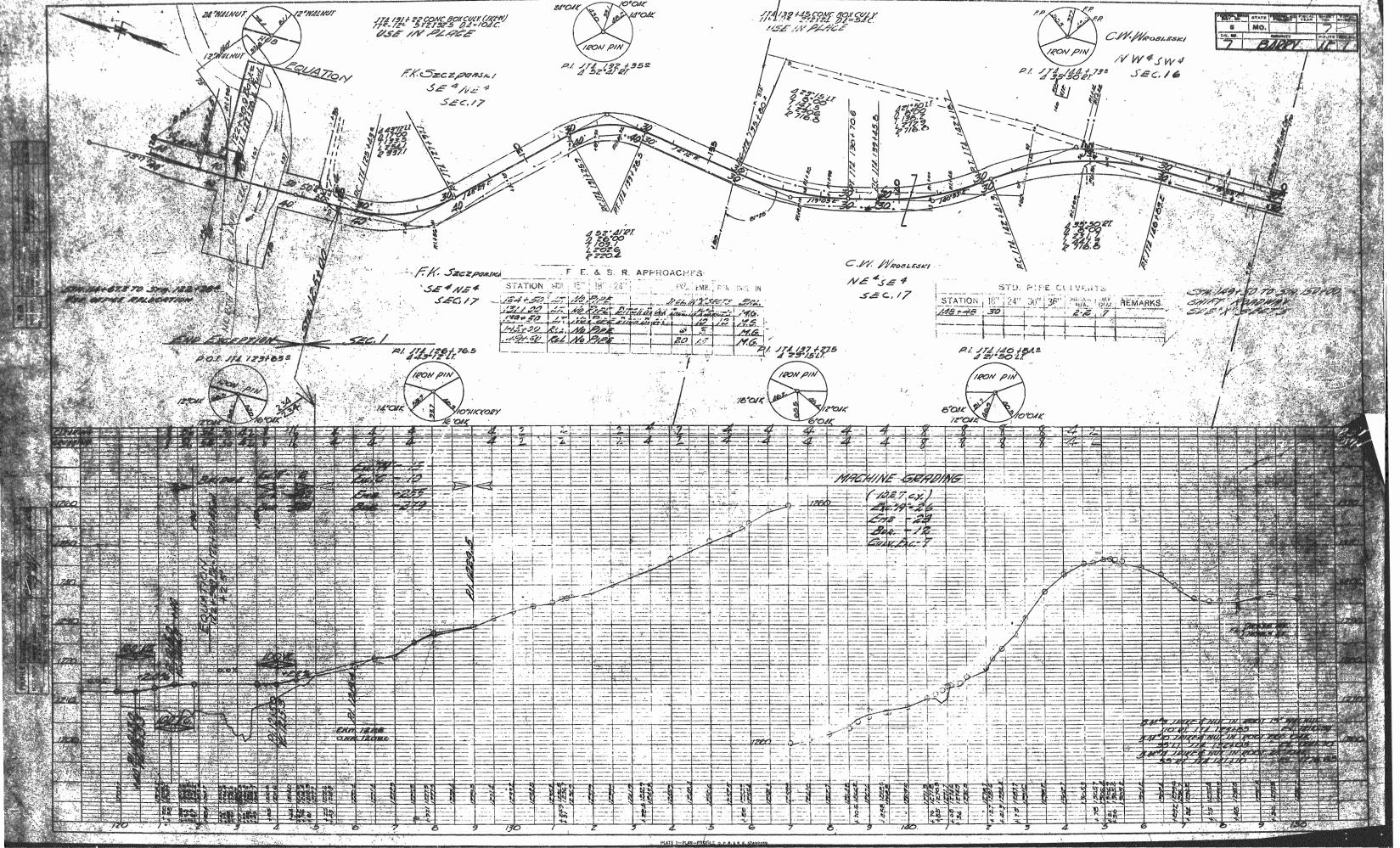
. 7	уре	of Im	prover	nent	20	0' 6.E.			•						E	ESTIM	ATE	SHEE	Γ					L	ength	3.44	47 KM	iles		DIV. NO.	COUN BARA		OUTR SEC. NO.
41019000000	A CONTRACTOR OF THE	No digital principles of	And the second second	EXCAV	ATION	Contraction of the same	Andrew State of American State of the State	Commission of Co			R	EINFOF	CED CO	NCRETE	E BOX C	ULVERT	S				LENGTH	OF PE	ROJECT						SUR	MARY	The second second second	The second of the second	A Valence
		TATA TARA	1	GLIC	BORROW	AUROU	MINGEL			STATION	STANDARD	SIZE	LENGTH	CONCRETE	REINF.	EXCAV.	REMARKS									ITEM NO.		DESCR	IPTION	College College Constitution of the College Co	UNIT	TOTAL UNITE	NO LINITE
		51A7190 0+00 f 3+00 f 80+00 81+00	331	and the same of th		140	77.00			37AT10K 36+40 18+38 148+28	1	PIF 18"	24" 34" 32"		RTS		ler hangen			f Project ength nd Exception	s: 30.7 = 12	2+28.4	Station Station	21002.5	Feet	1-A 1-B 1-C 1-Q 1-F	Hedge Cl. A.	Excave	ation		Acre Acre 10074 Cu. Yd. Cu. Yd. Cu. Yd.	7.1V 4.2 28.26 11.96 28	
		129+00 176+35 177+00 180+00 210-00	Bridge 207'	22/	362"	29.5 575.0 12.0 409.5	47.55			TOTALS		30° l				KERT			Exception Total Corre	ctions	18200		5280	18200	Feet Feet	1-14 1-W 18 * 18 *	Mach. Pick 15" 1	INE GA Up R Pipe C Pipe C	ock ulvert ulvert ulvert	\$ 5	Sta. Cu. Yd. Lin. Ft. Lin. Ft. Lin. Ft.	170.55	
·	208	07445 0.\$ 5.6.	165	128	3621	1800.d	110.55	1		SIDE Lt.	15"	7. E. C 18" 18'		CULV. EXC.		1	F.E. EMB	RETTARKS LACT. IN. Balance												- Fr			The state of the s
		TOTAL	185 V	28"	411	1800.0	170.55		22+00	Lt.	18"-	18'		2-	9.	2 -	3.																
		11 4 1			1 10000000					1.00	18'		40'	4.	- 3' - / • - 0	12.	3 11	Double P.U. Fock Used															FAMOUR 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
					PER AC				68+85 82+00 90+65	Vit.	18.00	18%	22'	26	5 1	51	54				,				-								
			SHEET NO.	SLEAR SO		UNITS GRUB 491			151+12	1	18' 18'			11-	5 8 5	34	41	[~e]. ~								•	, , , , , , , , , , , , , , , , , , ,					,	para de discourse de deserva de deserva de deserva de deserva de deserva de de deserva de de de de de de de de de de de de de
			51	137.		56 25 57			179+00	Lt	18'-		24"	3	2 5 .	01	101	INEL IN Balance				PI	CK	VP E	OCK	* ************************************			17074				B A Marin Mademan
		TOTAL	91	131		23 r 23 l			192+30 202+00 205+00		18'	18'	1	3	3.	2	54		80+00 80+00		Book *2	Book *3	10.0			4.0 108.0	1	Gook 7	14.0 645.5	4			
			TOTAL		ACRES	4.2V	//		TOTALS		216	126'Y	1101	45	784	416	1176		81+00 91+00 125+00	6.0 Excep	62.0		4.0			41.0		1.5	103.5	4	, i		
-				1	LLING	l .					CRO	i	1	1	I .	1				BRIDGE	129.0		?	1240	69.0	23.5 15.0		y	29.5		10 VS		
			3+55	2+20	SIDE	100 FT. 1.85 13.90 12.26	-]			20+10 20+10 20+10 31+00		1 -	0	5 3 2	REMARK		TOTAL	180+00 210+00 DE 800K	-	1920	199.0		200.0	1240	257.5		110.5	409.5	1			
•		m _V	14+31	-	Rt.	0.70					42+10 42+35 76+00	1 2t.	21	-1:	5	P.U. POCK										- Logorous C			a			AND THE RESIDENCE OF THE PARTY	· · · · · · · · · · · · · · · · · · ·
	-		TOTAL		R.F.	28.26					76+00 80+15 87+00 87+00	LA	3 5 7	0	2 4	-						7	A14 .	DITC	HES EXCAV								
-					T REI					- -	92+05	RA	01	1 .	7.	RU. ROCK Valley							1843	8 - Rt.	3.							-	
				VE C	EVLV.EXC						144180: 144185 149+32 149+32	Et.	52	0 2	10	P.U. Rock							TOTAL		102						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		21 MARTIN 1
To the second se			1	P. Er.	52						159+00 166+58 196+73	Et.	1 2 -	4	4 "	PV. ROCA																	
	-									-	196+13 TOTALS		171/	8/	817																	*	
							-																										
		-		-														,				<u> </u>											

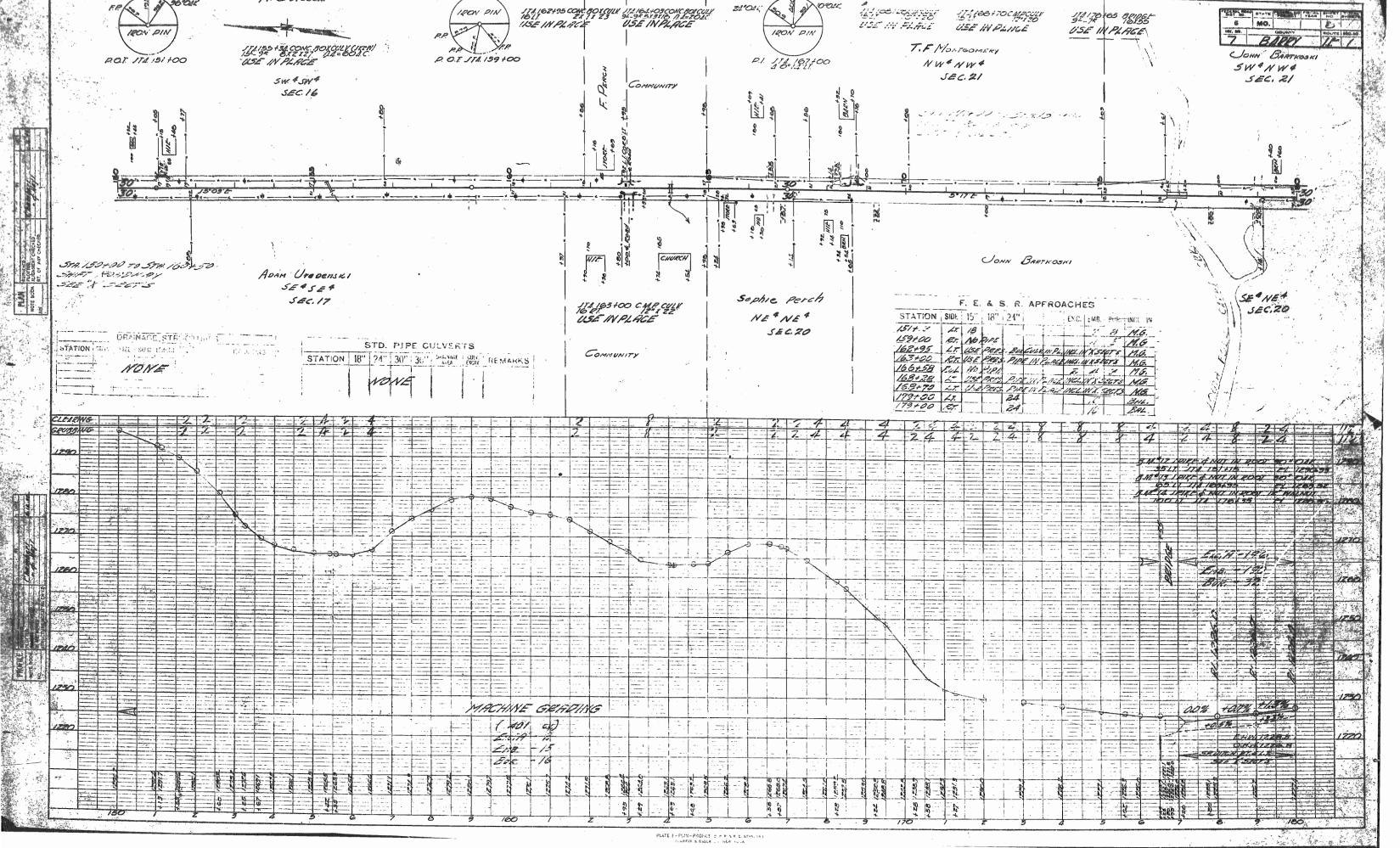


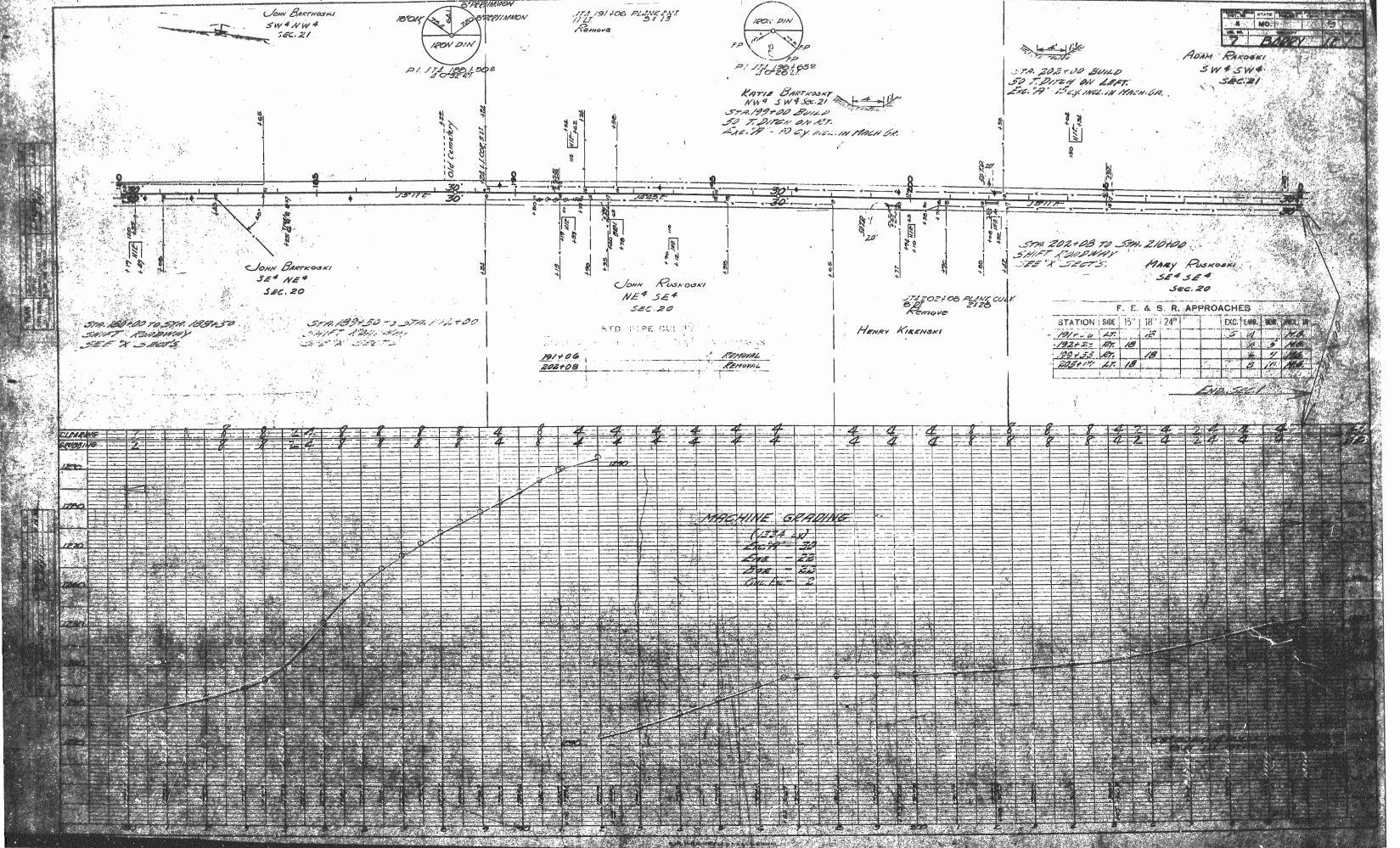


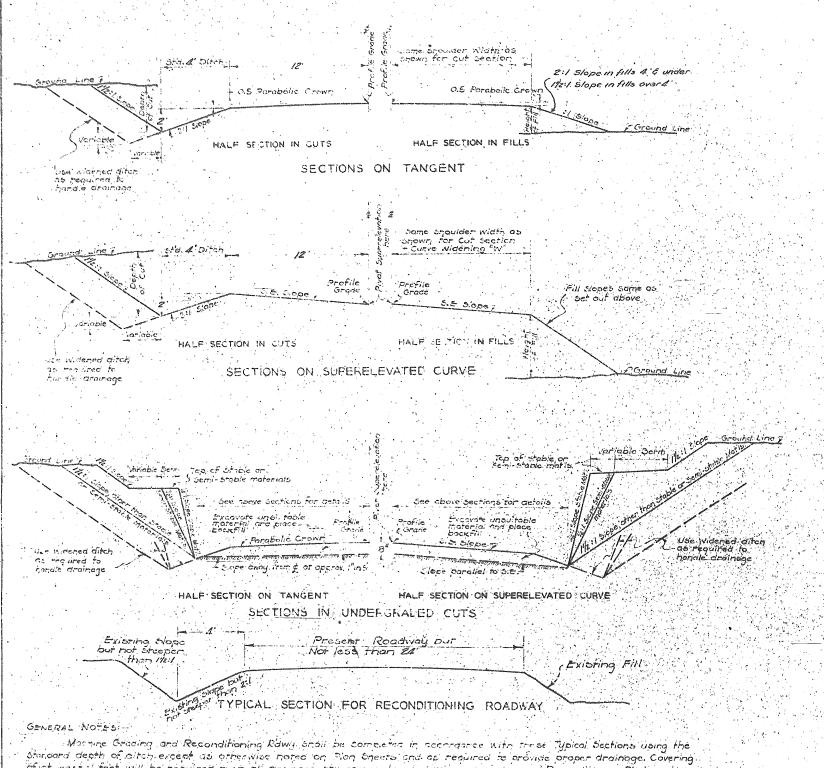












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44 244

· 11=.4:50

of at least I foot will be required over all archage structures located within machine and Reconditioning Rawy hections. in transitioning from one slope to another use a 25 foot length of transition.

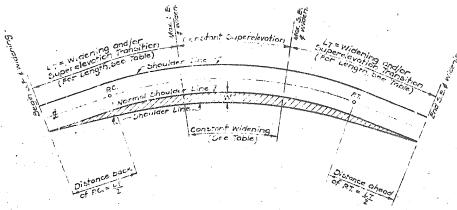
All information snown on these TYPICAL SECTIONS IS for the purpose of Indicating the required parabolic crown en langent section, and general design and construction details. Actual construction of roadbed widths slopes, depth and width of ditches, undergraded cuts and other features thall conform to the details snow on Cross-String and PLAN' PROFILE Speeks of do direction by the Engineers

Fond finishing of side slopes of cuts and fills will not be required. Macrine finishing to a smooth plone will be Considered satisfactory.

Unless otherwise chown on the plans, the roadway ditch at all cross road Culverts shall be widened to five (5) feet at the inlet with a fifty (50) root transition to the standard roadway ditch in "Machine Grading limits the cost of this excavatury is to be included in the contract unit price for Machine Grading.

The cost of constructing Ditch Blocks in "Machine Grading" limits is to be included in the contract unit price for Machine Grading

SCHEME OF WIDENING AND SUPERELEVATION TRANSITION



		-			*****		-		
SUPEREL	EV.	ATIO	N A	ND	WID	ENI	NG	DA	TA.
Degree	;		Des	ign.	Spe	eds	-	***************************************	,
of Curve	3	o or	ess	4	O M.F	H. :	. 1	50 M.	P.H.
· Dc	5	W	47	5	W	LT	5	W	LT
0° to 1°00'	0	0.	0	.0	0	0	0	0	0
1º01' to 1º30'	.oi	0	150	.02	0	:50	.02	. 0	150
2,00,	.01	0	150	.02-		50	.03	- 0	150
2°-30′	.01	0.	150	.03	O	150	.04	0	150
3°-00'	:02	0	150	.03	0	150	.05	0.	150
3°30′	.02	0	150	.04	0	150	.06	0	150
4°	.02	_0	150	.04	0	/50	.06	0	150
<i>5</i> °	.03	0	150	.05	0.	150	.08	0	150
6°	.03	. ၁	150	.06	0	150	.08	2.0	200
7°	.04	0	150	.07	0	150	.08	2.0	250
8°	.05	0	150	.08	2.0	5c	.08	2.0	300
3°	.05	2.0'	150	.08	2.0	150	:08	3,0	300
10°	:06	20	150	.08	2,0	300	Ma	x. Cui	
//°	.06	2.0"	150	.08	3.0	200		9:00	
· /2°	.07	2.0'	150	.08	3.0	200			
/3°	.07	2.0'	150	.08	3.0	250			
140	30.	2.0'	150	.08	3.0	250			
15°	.08	3.0	150	.Mo.	x. Cur	ve .			4.
15°00' to 22"59	.08	3.0'	150		14°-00	1			,
23° CC' to 23° 59'		4.0'	150			٠.			•
24°00 ¢ 000ve	.08	4.0	200	1	•				
	4.7	- No	re-51 -						

S-deriores Superelevation in feet per foot W-denotes Widening of Surfacing and inside

it - denotes length of superclevation and for widening transition in feet

Crown is to be eliminated on all Superelevated Curves Values for degrees of curve not shown in above table shall be identical with those for the nearest tabulated curve. In case of tie, use values for next higher degree curve.

MISSOURI STATE HIGHWAY COMMISSION

TYPICAL SECTIONS

24 FT. GRADED EARTH

SUPPLEMENTARY ROADS

(DESIGN SPEED 40 M.P. H.)

ROUTE: SY COUNTY: NEWTON

PROJ. CR. S-921(1) SEC. A&B

APPROVED Soller APPROVED ENGR. SURVEYS AND PLANS

LOCATION FROM ROUTE 60 SQUINERLY TAZOUGH DESSA TO MEBOHALD COUNTY LINE

TYPE GRADED EARTH, CULVERTS, & GRAVEL SUBFACE

MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

FINAL PLANS

FED. ROAD DIST. No.

DIV. No.

DIV. No.

COUNTY

NEWTON

FROIECT PISCAL SHEET TOTAL.

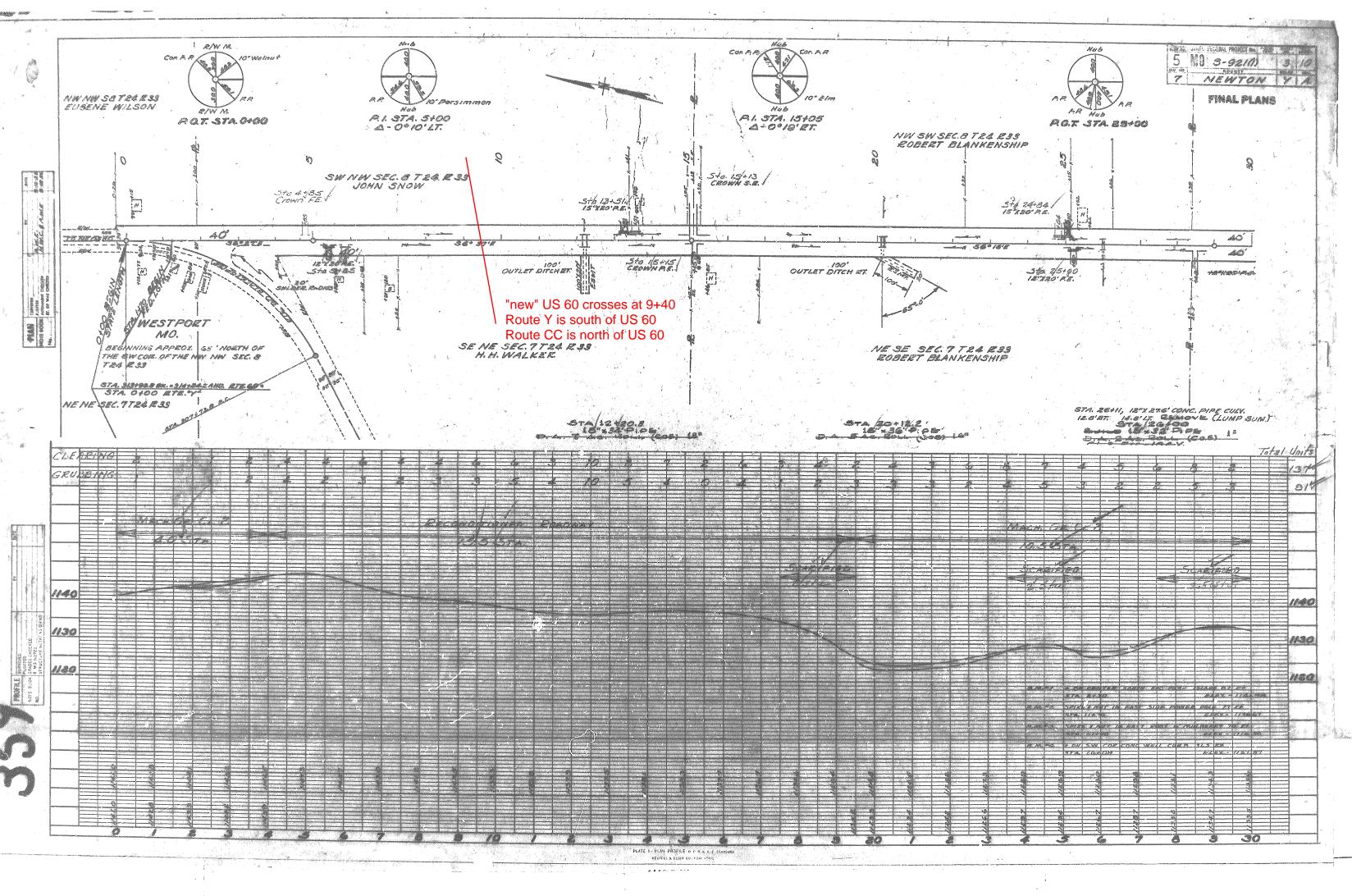
PROJECT YEAR No.

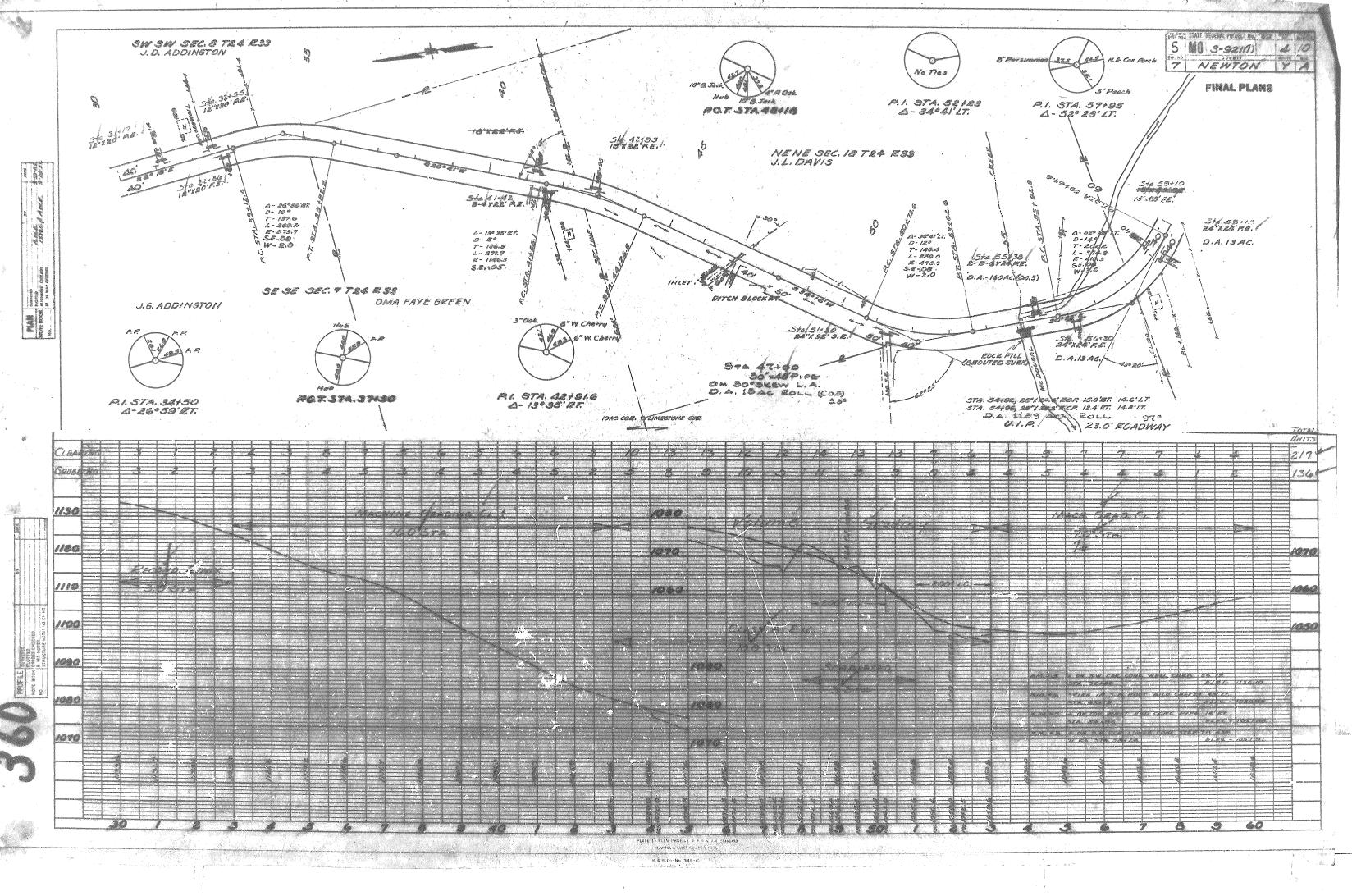
SHEET TOTAL.

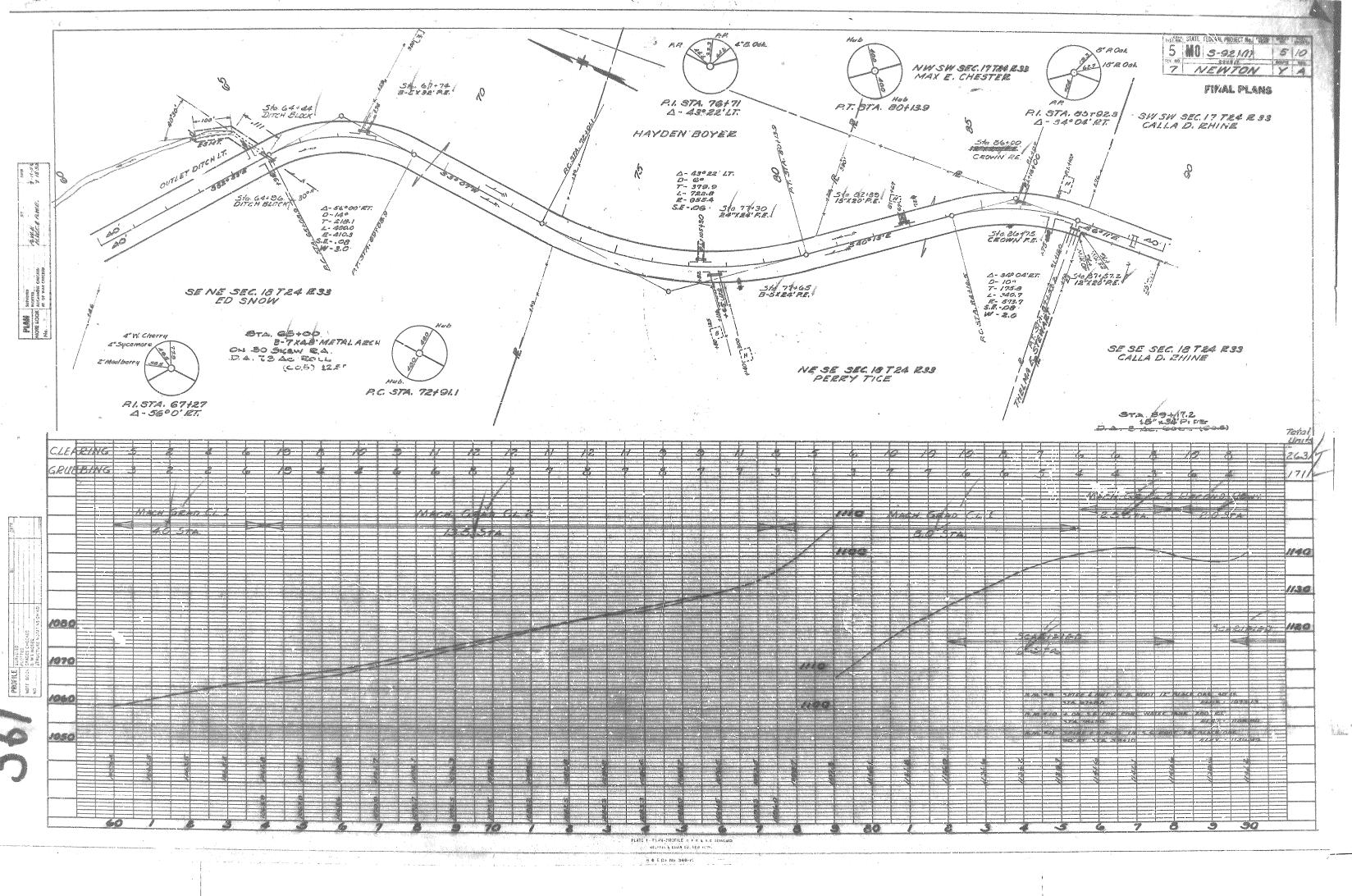
TOTAL PLANS

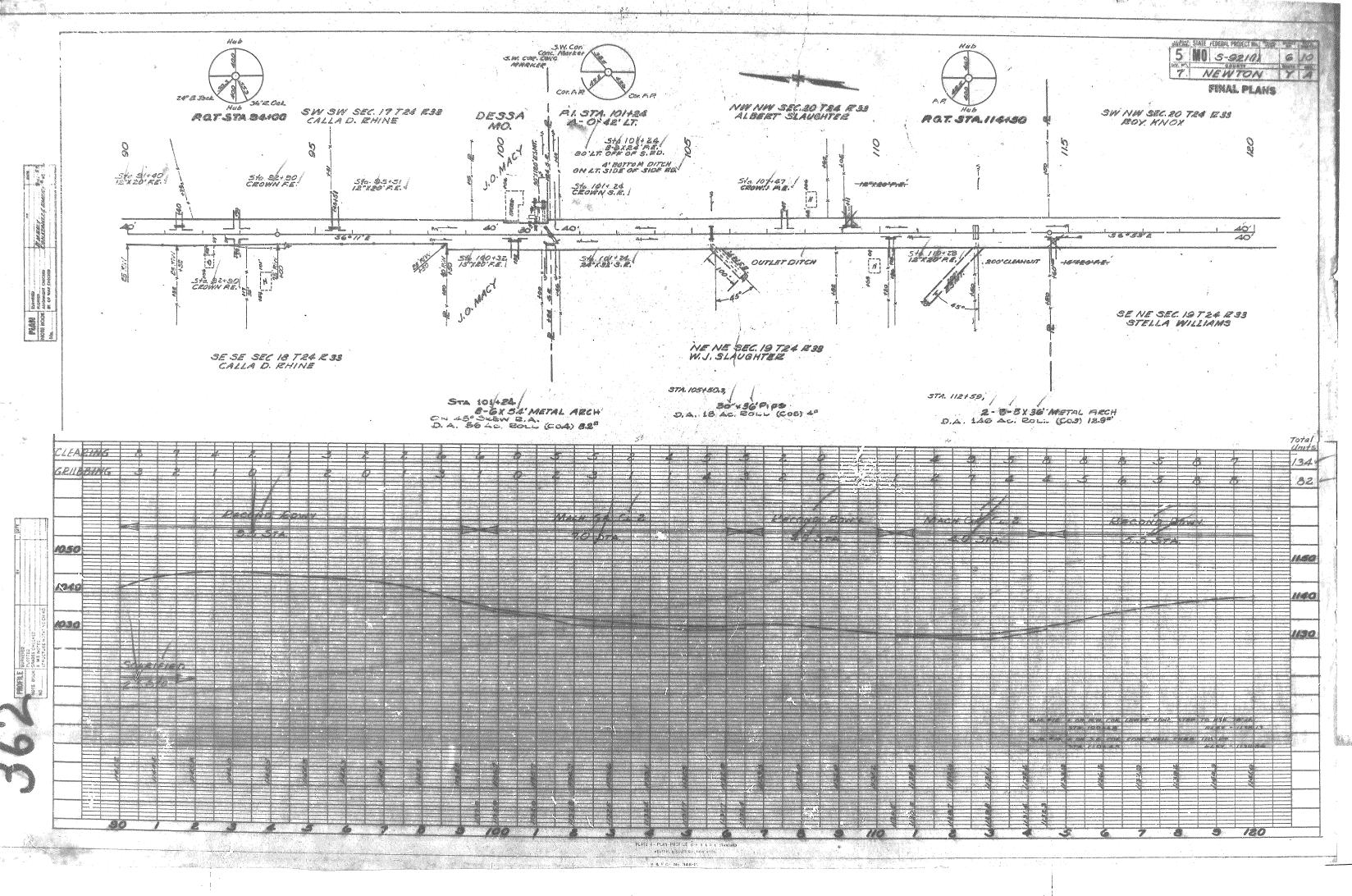
TOTAL PLANS

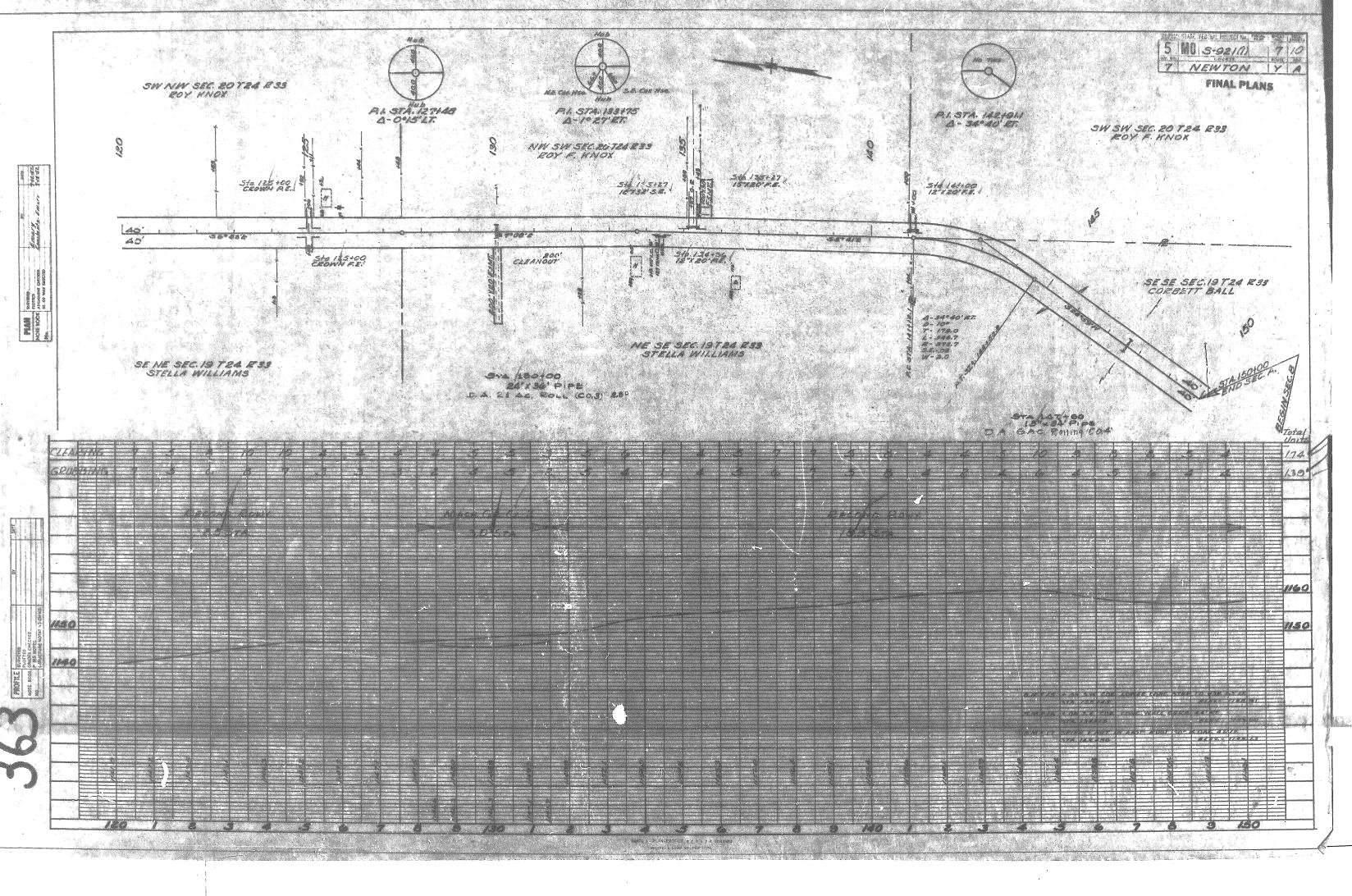
			7 NEWTON SY
FXCAVATION	ENTRANCES SIDEROAD CULVERT PIPE, & APPROACHES	I ENCTL OF THE	GENERAL SUMMARY
Station Class F Class C Borrow Mach Gr. 1 Mach Gr. 2 Becond Rolling	Station Type f. 12" 15" 18" 24" Potentland MGCII P. C. SOVI P.	LENGTH OF PROJECT	TIEM NO. DESCRIPTION
0400	26 3 A	Beginning of Project	1A-A Clearus
19.50 10 15.51	3465 P. 44 20 / 28 3 / 2 1345/ P. 44 20 / 29 3 / 2	Apparent Length Station 0/00	IA-B Grubbing Acre 106 /
30100		Equations and Exceptions: VONE	18-C Hedge Removal Acre 7.1
33100	1545 00 04	SONE	W.O Class A Frequetion
43100 1 100 4	24+84 PE LH 201 35 37 2 CF		
53/00 23/6 1 / 123	24+84 PE . Lt 201 35 3 2 2 25+00 FE . Rt 201 28 3 2		1-I Class 3 Excavation for Structures Cu. Vd. 5
53100 2316 V 5 / 123 110	3/4/7/26 24-20 28 37 2		19-0 Machine Grading (Class 1) Station 456
77450 110 1	22166126 111001	Total Corrections	I-I Class 3 Ficavation for Structures Ca. Vd. 5 IA-O Machine Grading (Class 1) Station 45.6 IA-O Machine Grading (Class 2) Station 45.6 IA-O Subgrade Scarifying Station 18.0 IA-O Reconditioning Roadway Station 66.5 I-CA Furnishing Rock Fill Ca. Vd. 15 I-CB Placing Rock Fill Ca. Vd. 15 I-CO Grouting Rock Fill Surface 5, Vd. 46 IB-C Gravel Surface Ca. Vd. 1702
85150	22100 100 2 20 20 10 1 1 1 1 1 1 1 1 1 1	Net Leagth of Project Feet /5000 Feet	1A-D Subgrade Scarifying Station 18.0
884001	A21951 EE 114	State Length = 2841 / Miles	1-CA Furnishing Roadway Station 66.5 /
99150	51+30 S.P. Pt. 32' 68' 1' 8 56+30 FE Pt. 20', 32' 3'	State Length 2.641 / Miles Federal Length 2.616 / Miles	I-CA Furnishing Rock Fill Cuyd. 15
106150	56+30 FE RA 24', 32' 3'.		1-CO Growting Rock F. H. C.
110450	59110 FE . Lt . 20 20 28 31		13-C Gravel Surface Sayld, 66
114+50·	59+15 RE RE 201 36' A 3	FEOERAL LENGTH	IR-B 12" Comment 1 102/
128+50	64+44 U.B Zr.	Erid of regeral Aid Improvement Ste Isolan	Total Call Pipe
131450	64196 DB. BA	Begin Federal And Improvement Sta 1420' Apparent Length	18-8 16" " " Lin. Ft. 2201
18.5 1	77+30 FE Ltv 28 3	Equations of Free Land	18-8 22" " Lin. Ft. 124
	824831 PE Lt. 201 28 3 2 2	Equations & Exceptions - None 14860 Feet Net Federal Length 14860 Feet	18-8 30" " " Lin. Ft. 172/
Subtotal 2436 1 5 123 290 1 445 1 66.5	86400' PE ' Lt' 28' 3 2 2 C-	Net Federal Length = 14880 Feet	18A-A Metal Arch Culverts (Tuce 8.1) Lin. Ft. 84
Borrow 123		= 2818 / Miles	18A-A Metal Arch Culverts (Type B.d.) Lin. Ft. 22
Apprs. 16.6 i	6/15/6/26 PE 10 8 1 28 2 2 2		18A-A Metal Arch Culverts (Type 8-5) Lin. Ft. 128
the second secon	31+40 EE · 14·20 26 3 2 2 CT /	BOCK FILE	189- A Metal Arch Culverts (Type B-6) Lin. Ft. 186 1 33-A Metal Arch Culverts (Type B-7) Lin. Ft. 48
TOTAL 2359 5 1/ 456 1/445 1/665 1/	- Sav 30 7.2 2 Cr		18-8 15" " " " " LIM.FA. 280 \\ 18-8 15" " " " " LIM.FA. 280 \\ 18-8 24" " " " " LIM.FA. 124 \\ 18-8 30" " " " LIM.FA. 172 \\ 18-8 30" " " " LIM.FA. 82 \\ 18-9 Metal Arch Culverts (Type 8-4) LIM.FA. 22 \\ 18-9 Metal Arch Culverts (Type 8-5) LIM.FA. 128 \\ 18-9 Metal Arch Culverts (Type 8-5) LIM.FA. 128 \\ 18-9 Metal Arch Culverts (Type 8-7) LIM.FA. 186 \\ 18-9 LIM.FA. 18-9 \\ 18-9 Metal Arch Culverts (Type 8-7) LIM.FA. 18-9 \\ 33-9 Kemoval of (10) Existing Structures Lump Sum
	30 30 PE RE		January Stractures Lamp Sum
CLEARING & GRUBBING	95+51 FE 1 15-20 7 26 3	54+92 Culvendel 15 15 46	
Sheet Clearing Galabina	100+32 FE . Et . 20 28 3 1 101+24 SE . Et . 32 70 .7 5		
No. Unite Unite	10/124 50 16	TOTAL 15 / 15 / 46/	
No. Units Units 3 137 91 1			A A A SECOND CONTRACTOR OF THE PROPERTY OF THE
A 217 / 136 V	107447 PE 11: 28: 3 2 Cr 110428 PE 21: 20: 28: 3 2 :	The second secon	CONTINGENT ITEMS
5 263 / 171	125+00 PE 12. 34 3 2 CC		
6 134 / 82 //	125400 PE - 14 . 34 . 3 · 2 · Cr · 125400 PE - 24 . 26 . 3 · Cr · Cr · Cr · Cr · Cr · Cr · Cr ·		" " " " " "
4 217 136 V 5 263 171 6 134 82 V 7 174 V 139	125+00 P.E. Lt. 34 3 2 Cr.	GRAVEL SURFACE	*18" " " Lin H. 22 L
/ · / / / / / / / / / / / / / / / / / /	135+27 S.C. Lt. 32' 130' 13 10 - Off of S.C	Book No. Cu Yds.	ASSECTION OF THE PROPERTY OF T
Total Units 9251, 6191	135127 F.G. LA 20" 15" 3 OFF of SR	1 / 502 /	*Leftover and Turned over to Maintenance
ACRES 10.6 7.1	135+27 S.C. Lt. 32' 130' 13 10 - Off of S.C 141+00 F.E. Lt. 20' 28' 3'	2 500	
* *************************************		3 / 500 /	
000000000000000000000000000000000000000	107AL 230 120 54 136 137 16	4 / 200	
WEOGE REMOVAL		707AL 1702	
Station Station Side 100Ft.	Ø 40 Ø 00 00	10146 11001	
99150	CM. CROSS ROAD CULVERY PIPE		The state of the s
116+15 122+60 Lf. 6.45 , 12120.	nn Location 15" 18" 24" 30" Cl.3 & Kc. Remarks		The state of the s
122+10 Rt05 · 20+12.	· + · · · - · · · · · · · · · · · ·	REMOVAL OF EXISTING STRUCTURES Station Location Description Structs.	And the state of t
123+45 124+15 Lt. 10 26+00	28. C.L. 36 M 13 V Tack Rem. 1	Station Location Description Struct's.	
	10 64	26+11 C.L. 12"x27.6" Conc. Rpz	1 1918 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
126+35 128:30 Lt. 1.95 89+17	66 C.C. 12 mm 1 mm 1 mm 1 mm 1 mm 1 mm 1 mm 1	874572 Rt. 12" x 18.7" R.C.P.	WOMPAY DICK
126+35 128+30 Lt. 1.95 83+17 132+05 132+50 Lt. 45 (105+30	78 CL. 34 1 18 · Incl Rem · 36 · 18 · Incl Rem ·	9/16/ 16/14 12" VI5" Came 12-10	MISSAY UL
138450 24 10 130100	03 / CL. 36' 18 / Incl. Kem.	33746 / 2017 / 12"VIS" DOD	
147+60	0 · CL . 34 V 36 / 8 /	100+19 \ 29 Lt. \ 2.3 120 Pump Island \ 101+08.3 \ C.L \ 3'x2'x3.2' \ \ 4'x2'x182' Come Cull \ 101+11 \ 74'Lt. \ 18" x 14.7' R.C.P. \ \ 1	
4 9.90 W		101+03.31 C.L 3'x2'x3.2' & 4'x2'x132' Come Culi! 1	
7079	2 100' 70' 36' 98' 98'	101+11 1 74'Lt. 18"x14.7' R.C.P.	
		101+641 21.51+ 18" v30 5" Come Ros	
BURE DOOR BAROLEURIC		134+36 20 Lt. 12"x12' Conc. Piec	
SUBGRADE SCARIFVING ME	TAL ARCH CULVERTS & APPROACHES	147492.6 × C.L 15"x28 R.C.P. / 1 /	
Station Location	20 M-A M-S Red IR-7 And legal MA CI I A C. CON SIGE	70784	
4 /	20 37 7		
23450 · 25450 · 20 /1 / 55438 · 0= LA 27450 · 30400 · 25 /1 / 65400 · CL	18'd 28' .3 2 Dbl. P.pe. Each 24' Long.	Lump Sum 1/.	
	12 - 90° St 120		
00100 00100	76 96 9	REMOVAL OF EXISTING STRUCTURES	
83+50 32+00 2.5 1 101+24 PE B	24' 25' .3 . 2 60' Lt.	NOI 2NCCUDED WITH LIBAD CALAR	7
101424 C.L.	65 .3 . 80° Lt.	Station Location Descriptions Classe	
707AL 180/ 112+59 C.L.	33.	55+38 16' Lt. 18" 1 MA' Com: Francis	
116733 C.L.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	92490'/18'Lt: 12"x 15' Conc. Pipe V 50 /	
70742	22' 126 126' AB' 2.9 * 10 107' Inc. Rem.		
	6.0 /0 /07	70182 /20	
	* Incl. in Gravel Surface Books		
	and in Gravel Surface Books		
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Prenared By CA	Bay Ste Date 11-18- 1053		
Prepared By CAC	Baugher Date 11-18- 1953 Checked in Div. Office By Morting Wo Date	11-27 19253 Checked in Central Office By Date	19 Revised By Date











TXP Sect Enribuerk

Route V Sect Proj Seguino County NEW TON Sheef# 8

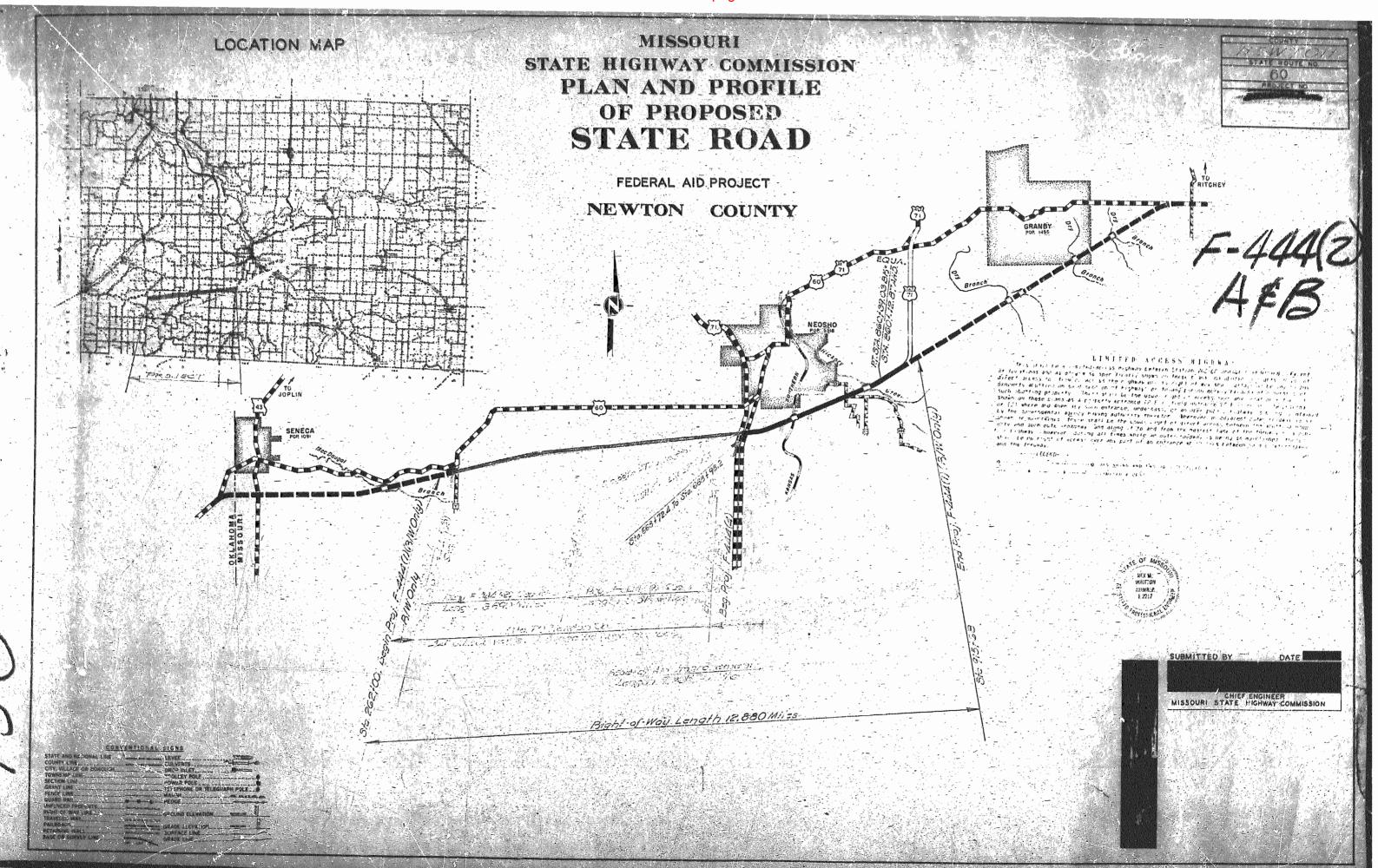
Surf. Corbs Suffer 1 APP

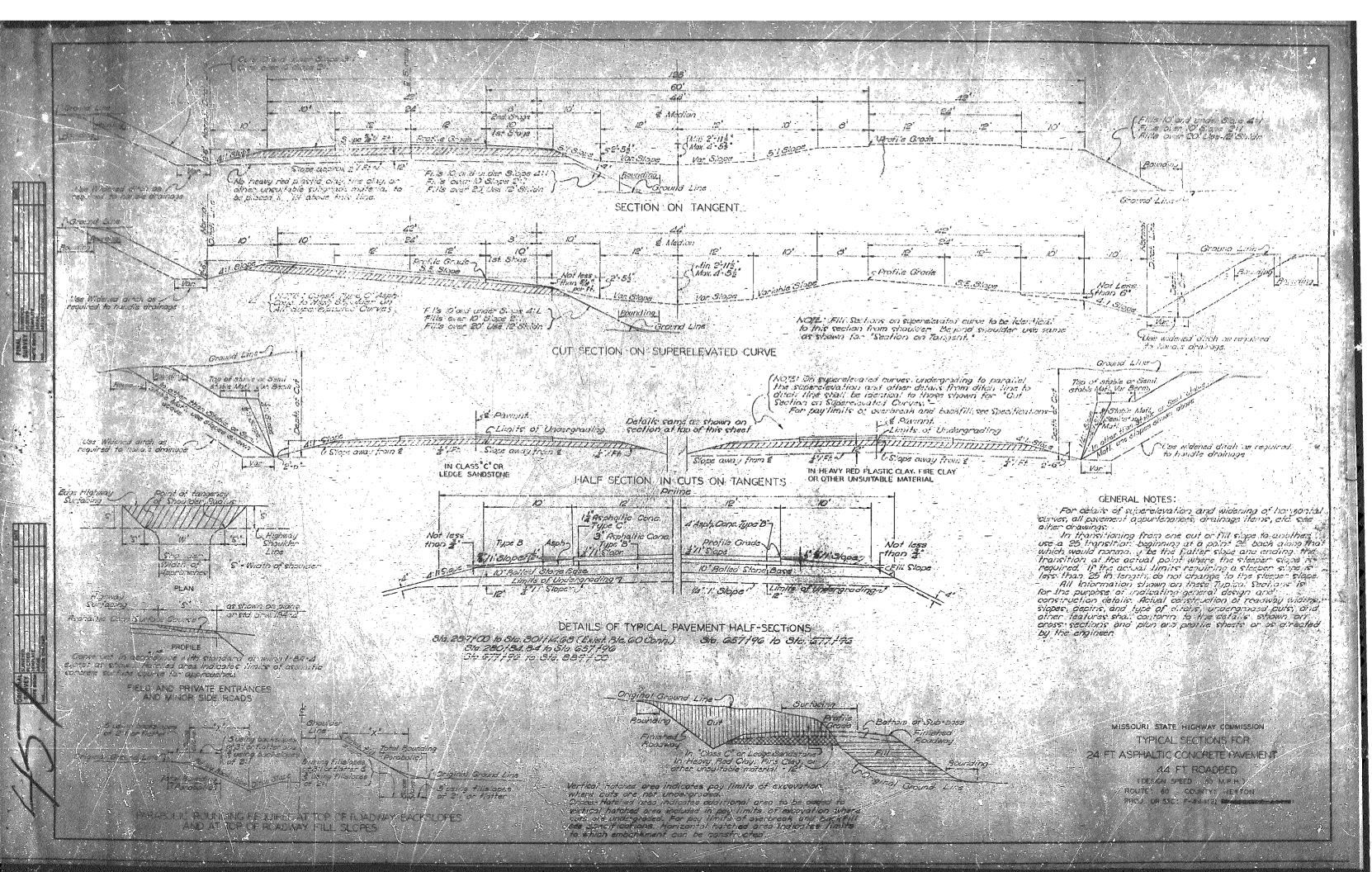
Bridges

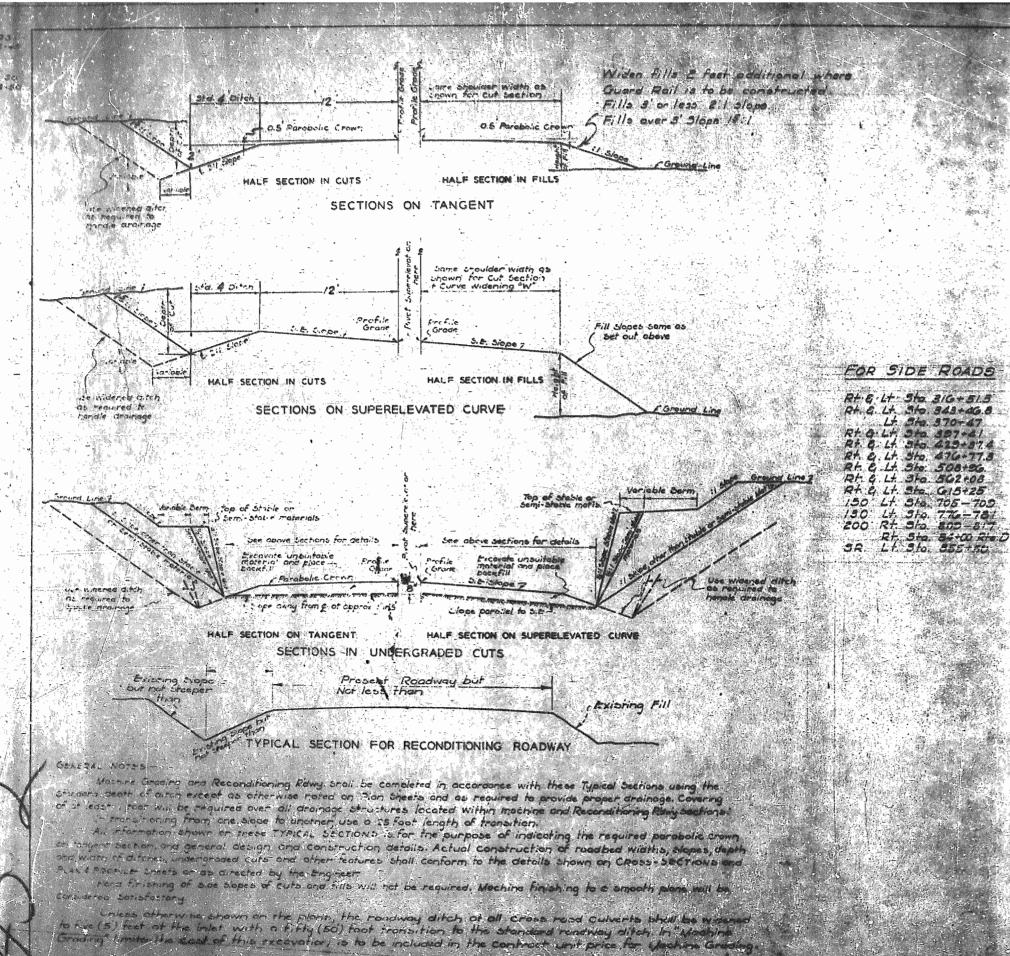
MISC.

Drainage /8A-1

Conc-Reinf Apports
Finish etc.







The east of constructing Ditch Blocks in "Machine Grading Timits is to be contract unit price for "Machine Grading"

SCHEME OF WIDENING AND SUPERELEVATION TRANSITION.

Degree	17 点		N A	oniosistinosis i	50	eeds	- Comprehensive		APPENDED AND AND AND AND ADDRESS OF THE ADDRESS OF	Minromense	energenous.			permanani permanan	-UB-IMEBRATION	-	-	arringa mil
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2.00	.07	O.	1.56	Sp.	0	150	56.	0	150	00	ر ر	CONTRACTOR NO.	parento-	0.	isc.	04	-	150
2°.30	.eV	O	ife	.og	0	150	.03	0	160	र् गाच्याकारी र	0	150	,134	0	150	05	10	150
3.00	.03	0	/50	loa.	0	1150	.03	0	So	04	10	1150	05	10	1150	C/G	6/	150
3.30	.02	0	1/50	.0.	0	1150	.04	0	/150	06	10	150	AND THE	-	150	07	7	150
	.02	0	150	.08	10	150	.04	10	150	OF	b	150	06	<i>K</i>	CAL	(3)B	10	7.20C
	.03	0	150	.04	10/	150	.05	0/	150	.07	A	150	Q.	70	150	08/	20	madagamanan
69	.03	10/	150	.08	10/	150	.06	ď	. 150	.08	10	150	.08	120	200	10/8	50,	206
70	404	6/	150	.06	V	150	.07	6	150	49	120	1200	OV	É 13	2/50	108	. S O.	AND HER PROPERTY.
8.	.05	6	150	.06	A	.50	.08	12.0	150	08/	20	300	98	20	200	10	MAK.	CURVI
9°	.05	70	150	.07	12.4	150	.08 /	2,0	150	UB.	20	250	Jos	3.0	300	1	"	
10°	.06	1.0	150	.08	/ 2.0	150	.00/	2.0	800	60	30	250	- 9	MAX	CURVI		•	****
	.06	2.0	/50	.08	0.5	150	08	3.0	200								A	
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/3°	300	2.0	154	.06	3.0	150	69	30	250		+ -							
140	.06	2.0	1,54		3,0	150	63	30	250									,
15°	.ce	3.0	150	100	30	50 b	14 5	MAK	CURVL	•								
5°00' to 22°59	-68	3.0	150	0.0	30	200	500	- 7						. • •	,			
18:00 10 23 39	108	4.0	150	1974	MAN C	URVE												
24°00 ¢ 00048	1.08	4.0	200					٠.,	د.	٨	10	TE	•					٠,

S-denotes Superelevation in feet per foot Widenotes Widening of Surfacing and inside

W denotes Widening of Surfacing and inside Shoulder in feet.

Ly-deholes length of Superelevation and/or Widening transition in feet.

Crown is to be aliminated on all Superelevated Curves. Values for degrees of Curve not shown in above table shall be identical with those for the represt tabulated Curve. In case of the use values for next higher degree Curve.

MISSOURI STATE HIGHWAY COMMISSION TYPICAL SECTIONS

Use SE, Widening & LT.

as listed on Plans.

24 FT GRADED EARTH

SUPPLEMENTARY ROADS

(DESIGN SPEED ___ M.P. H.)

PROJ. 98-SEC : F-244(1) P223-334(3)

ROUTS: GO COUNTY! NEWTON

ENGR. SURVEYS AND PLANS

LOCATION From Rule SY Nacth sashedy Towards Granky

TYPE Goodel Earth Culterla 1 18 Appliable Concrete Parement

MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

FINAL PLANS

EXCAVATION			- GENERAL SUMMAN
to Garage Com Col Con a Control Remarks			TERMS AND ADDRESS OF THE PARTY
25 2544 84251 2147 * Steen	End of Project Station	GGS CASCO End of Project Station GGS	Hose Leave FA! Clearing the State of the State of the Art of the Art
20 2544 8625 2167 1616 18Rte.60	Peginning of Project Station Apparent Length	28211626 Beginning of Project Station 2821 2829216 Apparent Length 2825	
12926 13784 1200 923	Exception 4	38693.16 Apparent Length 3869 Equations and Exceptions: None	193.16 Ret I-D Class A Exception CY BONIL
2662 1686	Ste. 467+8417 to Ste. 468+07.83		1-E Class C Excavation CY 2400 1
00 16604 10619 62 2696	The state of the s		1-1 Class 3 Firewalton for Structures 1977 3400 1
42 84 131	Total Corrections	-23.66 Feet	L.L. Compacting in Citis
74 46452 1285 1209 620	Federal Length	38569.50 Feet	I-N Coverhaul
00 96110 2866 44147 216007		7.305 Miles Votal Corrections	Feet 1.Z Removina (3) Miscellaneous Items L. Sum
00 69373 2660 3647 3620 66 48931 1802 2456 9100			592.16 / Feet 13-D Crushed Stone (B) Surface CY 1122
00 /4792 879 882		State Length = 2	The state of the s
45 38864 5944 4949 1392 2880		- Constant Longin	7305 Miles 16-B Class B Concrete (Other than Box Cuth.) C.Y. 91.67. - 18-B 12" Corn Metal Cuty Pipe (E4SR) LF: 1788
00 31611			18.8 15" " " " " " " " LE" 270%
08 13588 5762 1106 1089		OX CULYERTS	18:8 18" " " " LE 1804
als 488,924, 27895 40217 25016 42194	Station Location Standard Size 3ke Length	CIB Reing Cl.3 Fill Waslope Remarks	18.5 24 " 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
32.836	31G15157 SE RI 7 C 531 " 6'15 " 20'EAT 37"	261 2 2247 59 4 4 15:1 CSta 3100 SR RI	18.8 36 " " " " 16.
ing \$292	318+00 & C.820 5×4 25 LA 95 463+50 & C.820 5×67 50RAV 150	457 4853 67 5 6.5 2:1 Zuilt in sections Hauls 1	
15680,111 40217 406861 42196	469115 6 C-820 8'48" 30'LA 162"		
	4991600 6 6 820 7 17 46 LA 139		16.00 000
EORROW PIT : SMTS	500196 SE 1 C 531 7867 - 417	942 1 2299 24 7 16 1 6 64 1404 902 17	LAC 30' " LAC 200"
02+91 to Sta \$19:75 Lt. Former owner-Gilling Debsen, 12 125 CY. Borrows	568450 6 C 550" 4:4" 40"RAV 1977	869 12248 139 15.26-26-25 2:1 Built in sections Had Li	U.C.W. 11 24 18-C 136 11 11 11 11 11 11 11 11 11 11 11 11 11
1168 to Sta 648+36 Rt. Former owner-Frank L. Adams, 5,742 CY Borrow	581725 6 2.530 V 4.14 45 LAY 175	723 × 9462 × 1207 × 12.17-17-17:10 2:1	15-C 42 " " " LF. 100
CANLL AND ALLA STRUCT	\$30+82 6 C 820 818 15 LA 86	898 9006 7 155.5% 5.6.6 15:1 7 " " " " "	* to 1 1 18 C 48 " " " LE 202
SCELLAREOUS TEMS TABULATED GOLE & P. SHEETS No. Classica Gribbina C.A. UD. CLC UD Drain Mark For Mark Fort & Mark	651420 6 7 0.620 5157 - 7 86	445 4636 107 6.8.8 2:1 - 1. 9 1 1 1	11 7 1 18-CB 48 Reing Cone Culv. Pipe (Imp To Method) L.F. Som
He Classing Scienting C. F. U.L. C. C. U.L. Translate Vil Mark Fortends	Tettis		18A-A Metal Arch Culverts (Tupe B-7) L.E. Bound Brand Bred
G C 30		7893 87824 12955 1 Measured Quan.	19-A Reinforcing Steel Underdrains Life 1811
" 696 445 169 M 3 Y 7 F 3.72			24.D. Class C. Underskin (Tile) Same was to Valle and the
36 - 411 3.09		The state of the s	27-A Guard Rail (Tupe A) LE 1190
276 212	and the same of th		28-A Barricades Each
228 261 53			296 Right of Way Markers Each 110
425 130 212 4 13 444	CROSS	ROAD PIPE CULYERTS (R.C.P)	29-11 Drain Markers Each 27
10.9 478 265.0 5 7 4.96	Station 18" 24" 30" 36" 42" 48"		arks 33-A Removal of (8) Exist Structs (Colve.) L. Sum
10.9 478 265° 6 7 4.96 28 169 3 10 3.50	294420 (19°	16 None 30 LA Rie Go Care, 12	2511 ST:A Fectilizing & Mulching Acce 469
33 3 09	286407 125 / 289833 18 7	# 22 1 C230 FB 7 1.54 126 7 30 LA 14 FILL HUND	
656 218	294125 62	3 Flore EstenBillion 47 2.6.280 RC 1.767 148 10. RA 5 F.11	ROLLED STONE BASE
486 - 866 159	301+53 79'	25 2.0.250RC 268 4 278 4 10 CA 5 Fill	Total Paris
166 53	507700	89 1 C251 RB 278 209 - 14 Fill Hold	1119 2-8 Secretion Strange Compacting (10°) Mile
180 20 106 1 08	336/28		2-B Spreading, Shaping & Comparting (4") Mile 0.86
838 728 4 3.50 6 5 4 7.50	347156 105 7	36 7 2.C.250 RE 492 5 984 / 45 RA 1.5 EIII -	· 1942、 [4] - [4] [4] [4] [4] [4] [4] [4] [4] [4] [4]
5 / 150	964720 77"	88 8 2.C.230 EE 262 184 40 LA 3 Fill	ASPHALTIC CONCRETE PAYEMENT
NLS 7129 12436 (1378 98 27 110 4689	985500 109 V 41980 105 V	51 15 250 88 536 440 45 RA 8 F.II ZCHdu	ULL-PBULLE: 40-A Primer (NC 0) Gal. 79,201 J.H. 7-B Tung B Asobaltic Concrete Ton 28024
Y BURE 934R GG9A	431/2	67 1.C.231.80 2.96 241 - 10 Fill Had	
	443446 108'	726 7 1607 1-025, 68 3.00 224 10 R. 18 Fill Had. 42 20 250 PG 524 482 30 PA 7 Fill 5	CIS. TO TUPE C ASPENDE OFFICE
	464+00*	180	U.SEAL COAT
	487:00 71	63 2 C 236 C 2.38 174 35 LR 2 Fill 2	104-4 Birtier onte Material (200-250 Pen Asph.) Cal. 35422
	576415 15111	5/ 1.C.230RB 218 183 1 40 RA 14 Fill Abul L	
	625too 87'Y	28 25 20 EC 3.82 312 30 RA 5 F.II	
	634190 95"	51 2.C.280RC 3.10 300 25 RA 6 F.II	ROADWAY CONTINGENT ITEMS
	Parete age / A / A / A		Placing Rock Fill CY 959
GUARD BAIL: TYPE A	TOTALS 228 608 240 108 103 202		15 Core Metal Culv. Pige Turnel over to State L.F.
100 Te Marian Caration Lin Et Dannaha		*Measured Quan.	Cutting & Delivering Asphaltic Cone. Samples Each Tile Unigerary taken over from contractor L.F. 16.11
50 470100 Rt. 350 Fill Over 20"			Title Unigerorain Taken Wet 2 con contractor
50 671400 LL 350			
2001 Committee of the c	DZAIN BALIJE	RAINE & DAVEN DITCHES	
90° 270100 24 220 4	Station Side Basins Desires Pay Dit	b Cl. Sixe Cone Rous Romarks	
7070	207141 1.7	20 6.14 72 Flags Ahead	
	488100 Lt. 9 28 9	21 1 668 80 - Flows Back	
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	10TALS 2 45' 2	41 12.82 162	
BARBICANES			
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COCATION FROM ROUTE BY NO SECURICES. TOWNERS SERVING

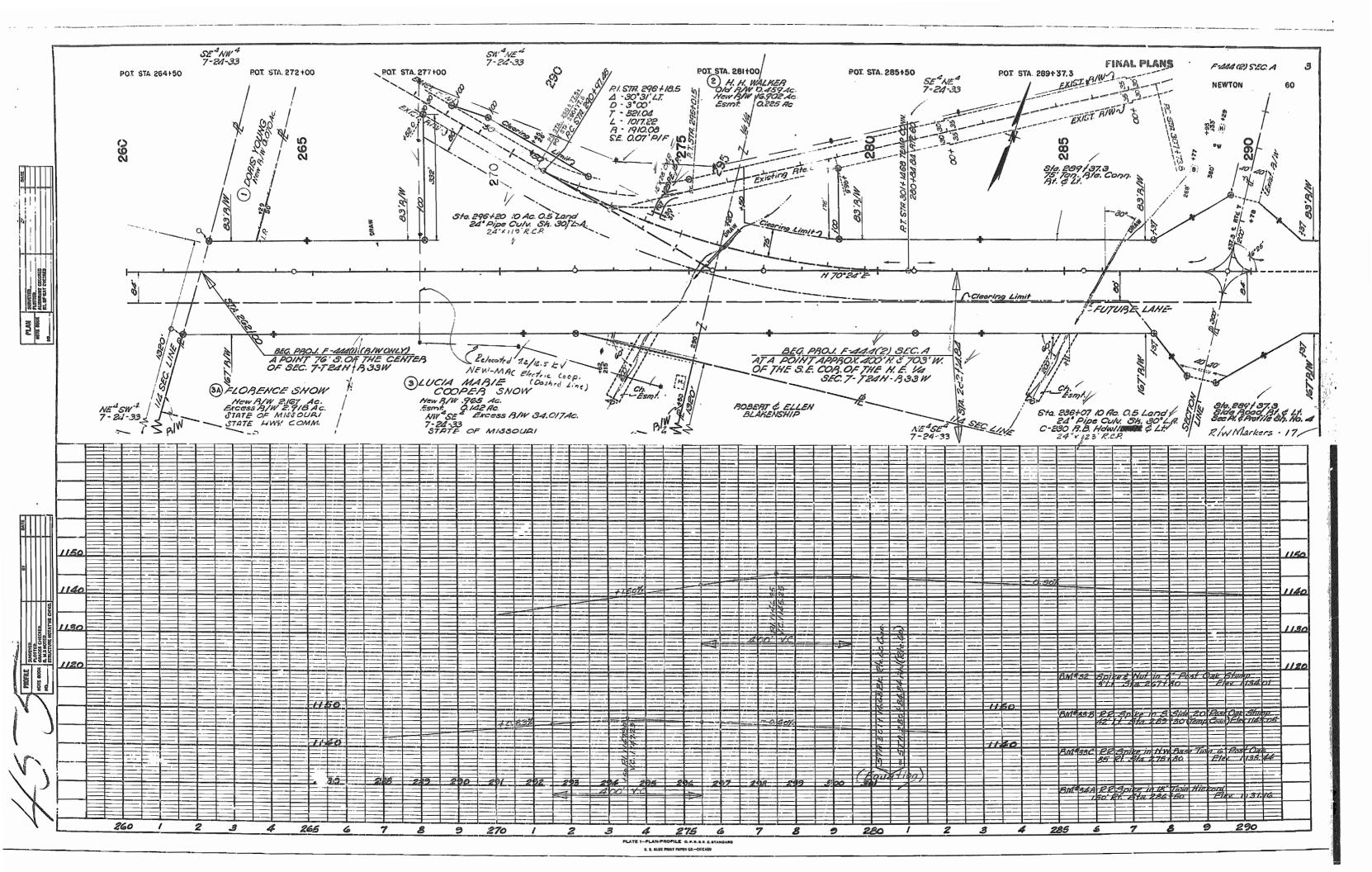
TYPE MEANER EXERT CHEVERY & BE ARRESTE COMMETTE PAREMENT

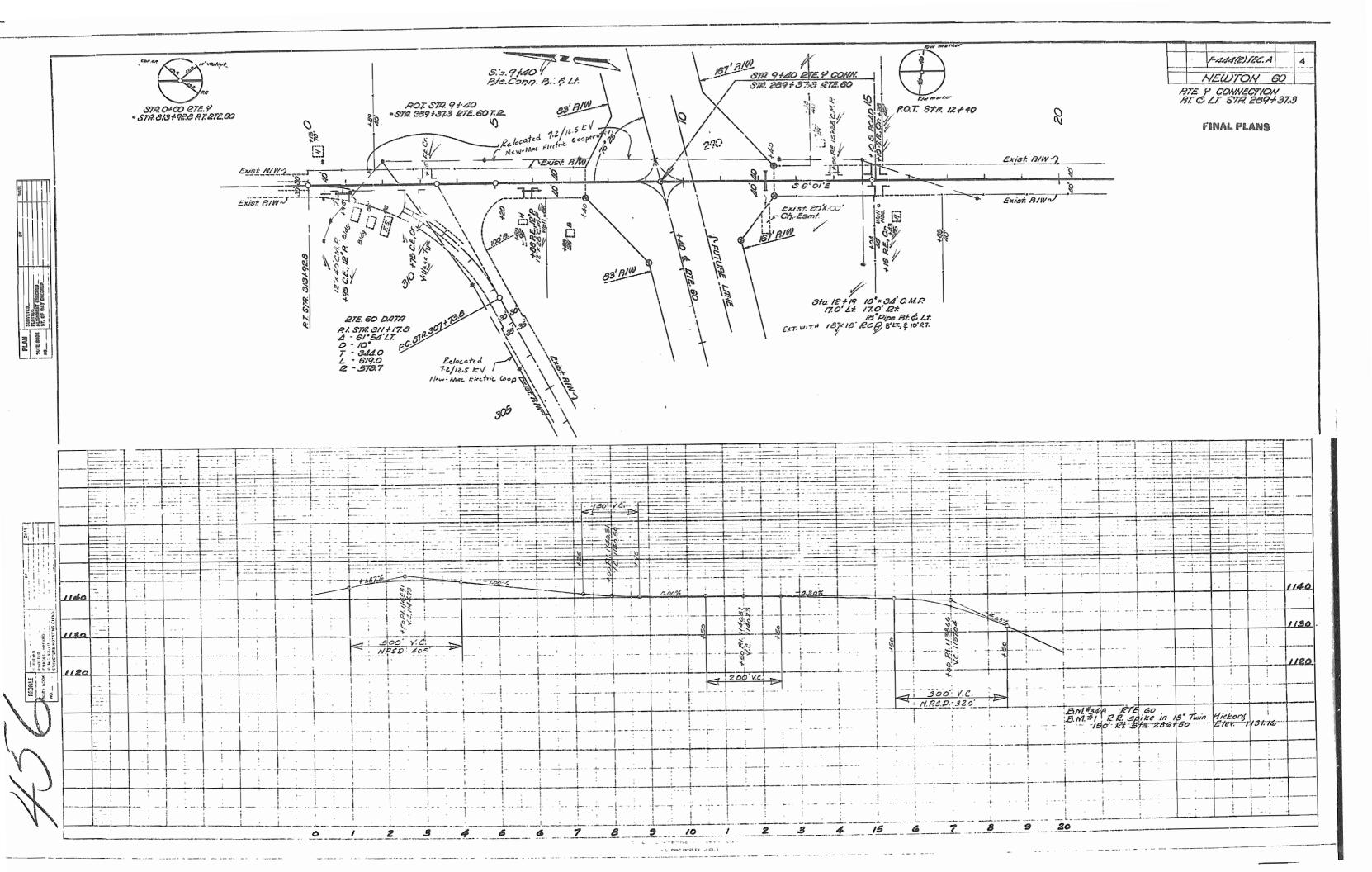
MISSOURI STATE HIGHWAY COMMISSION

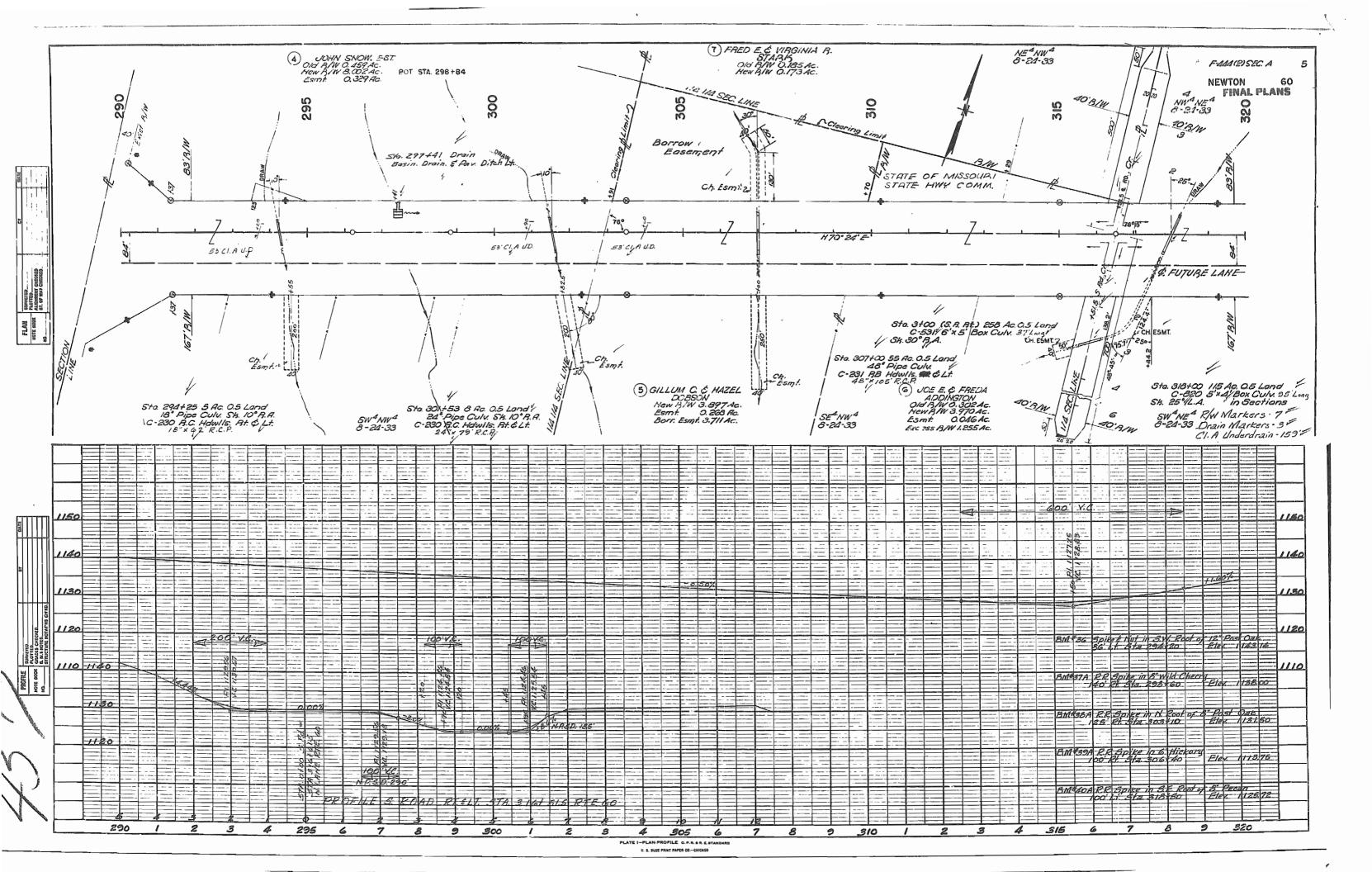
SUMMARY OF QUANTITIES

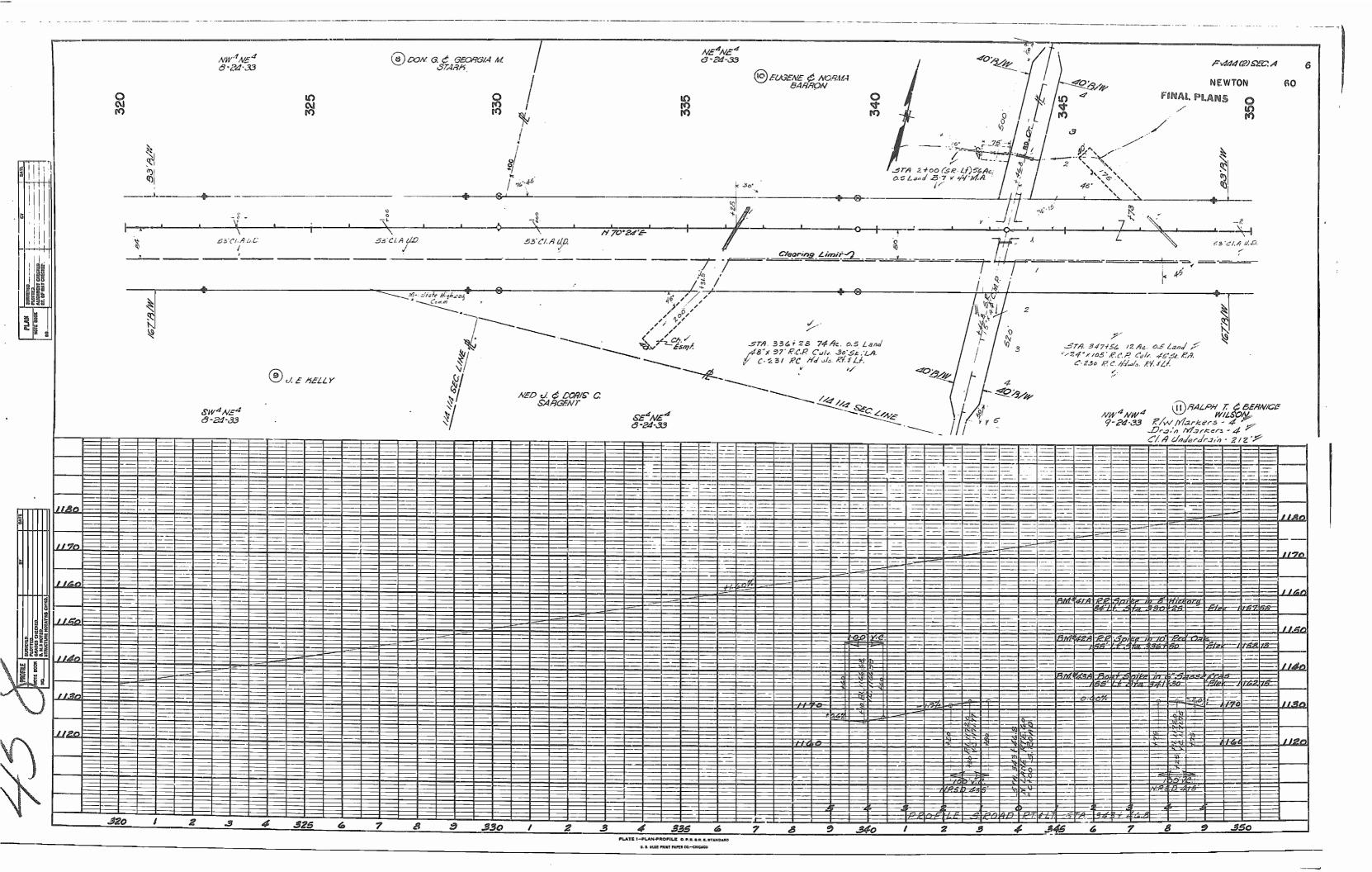
FINAL PLANS

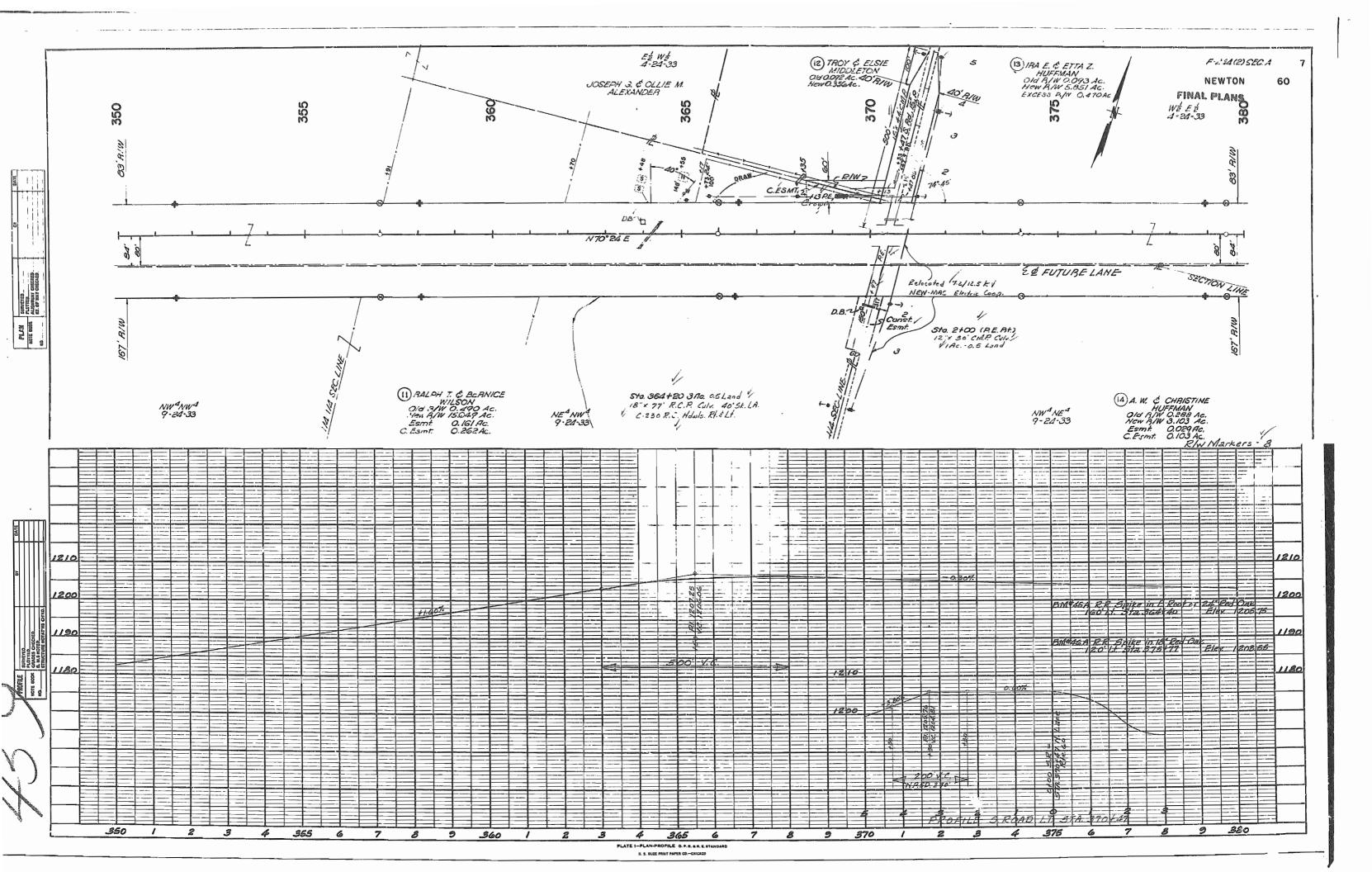
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	1 ALL SHOP SHOP 12 / 1 2 / 2 / 2			BZMACLSE/FA	Zailfe Sei Sei Sei		End of Project		ion		Territoria (Constituto de La Laconomia de La
27 XY 1	40	Million and a service of spinking and desired on			Die Was St. 200 Lane	many with the state of the stat	Beginning of Project Apparent Length	St.	Peet	and the second s	Charles in the control of the contro
	harmon and an and comment of the second and a second and a second and a second and a second and a second and a				Ple Y Village Time E.to		Equations and Exception	Ma:	0 9/40		
MANUS DE ASS	and the second s			1 70	Che 1						The second secon
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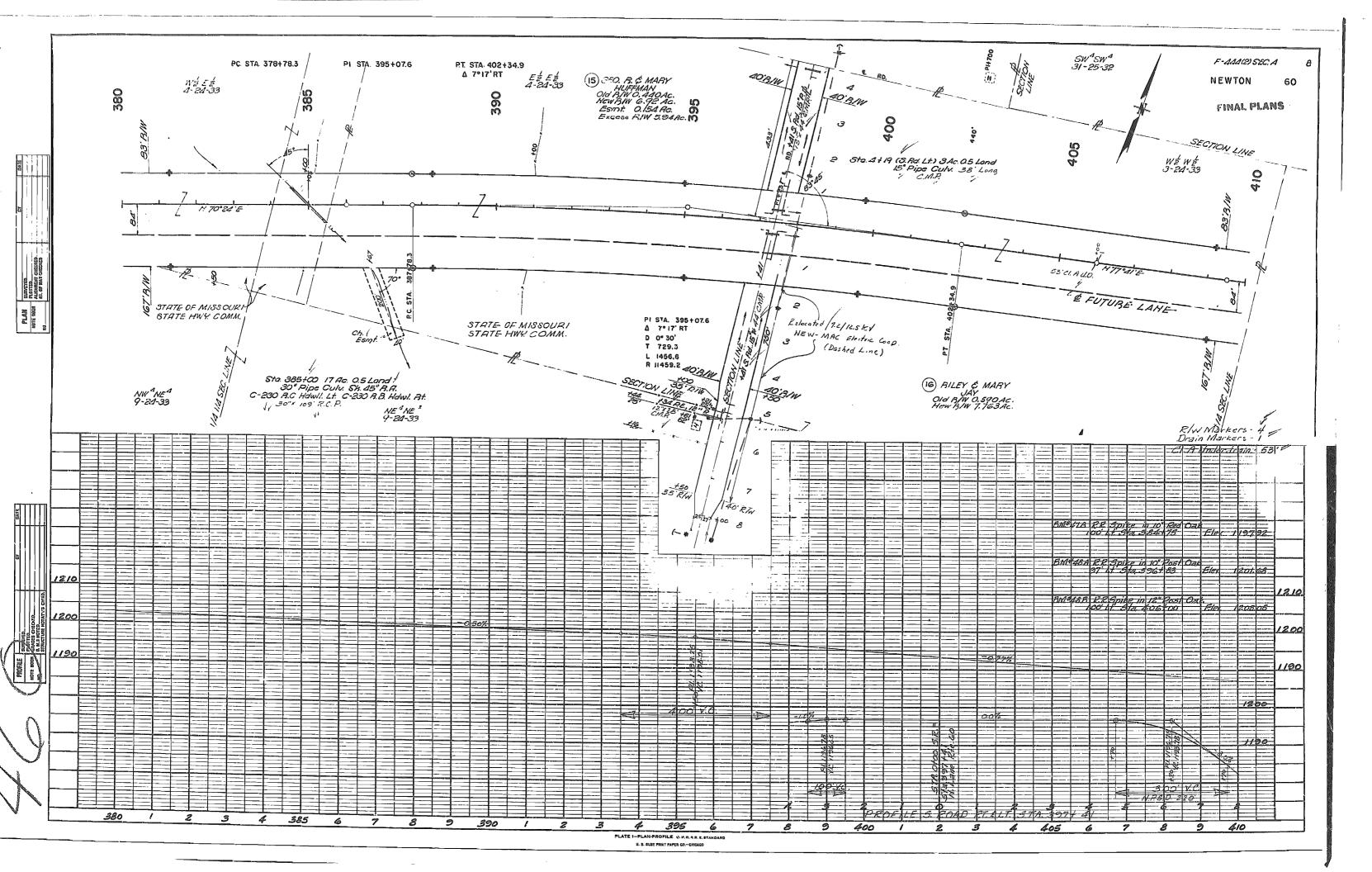


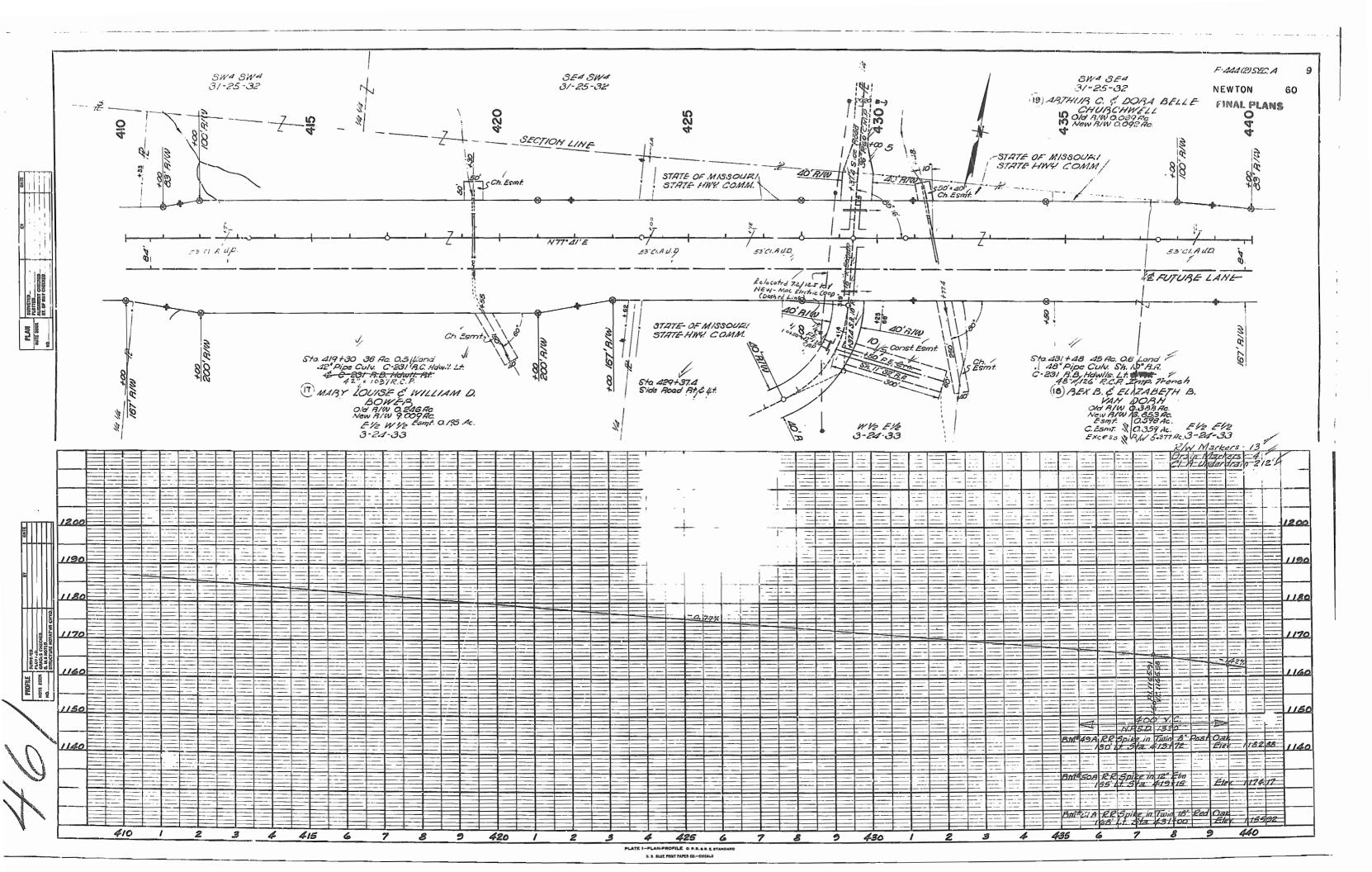


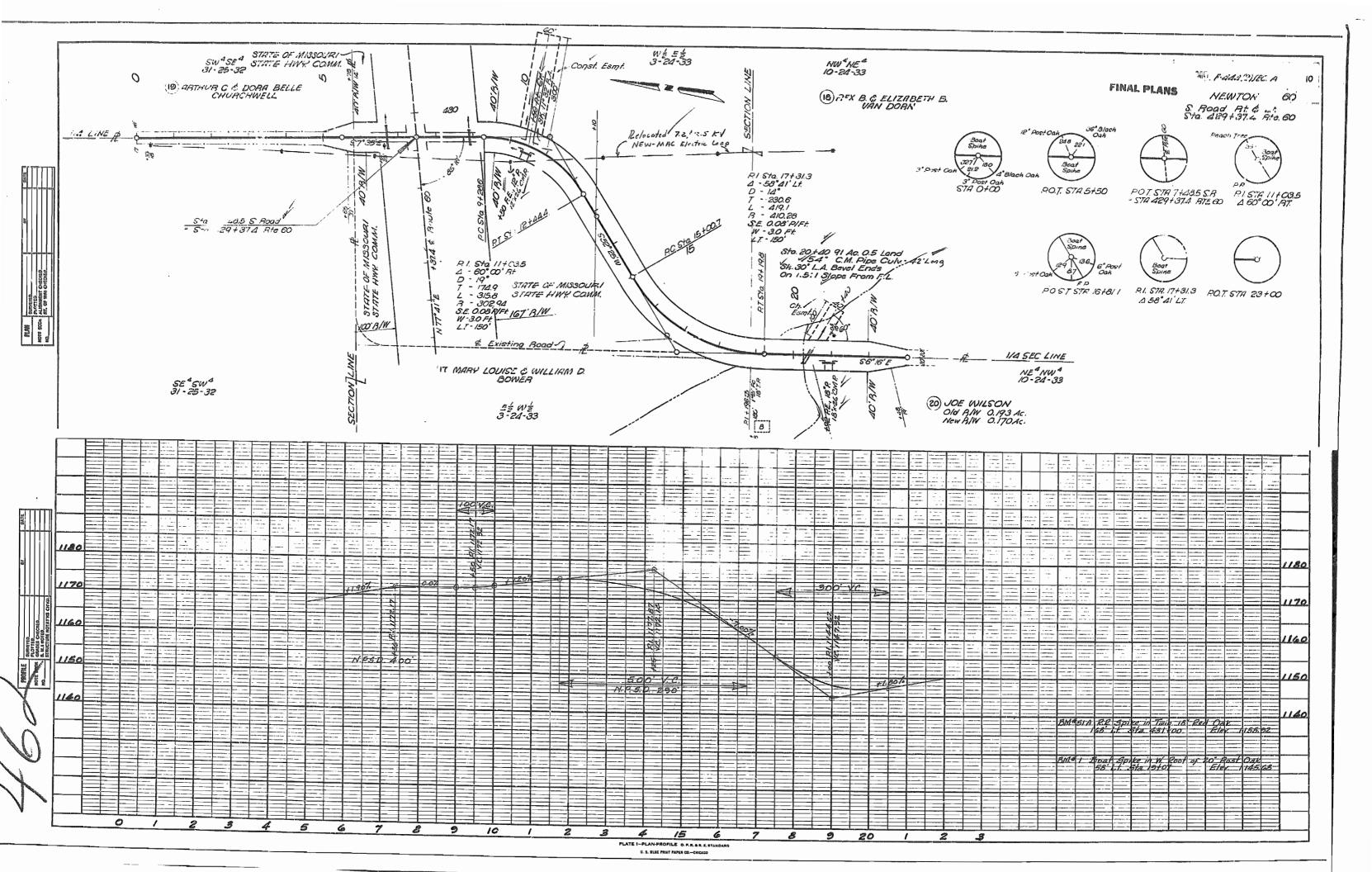






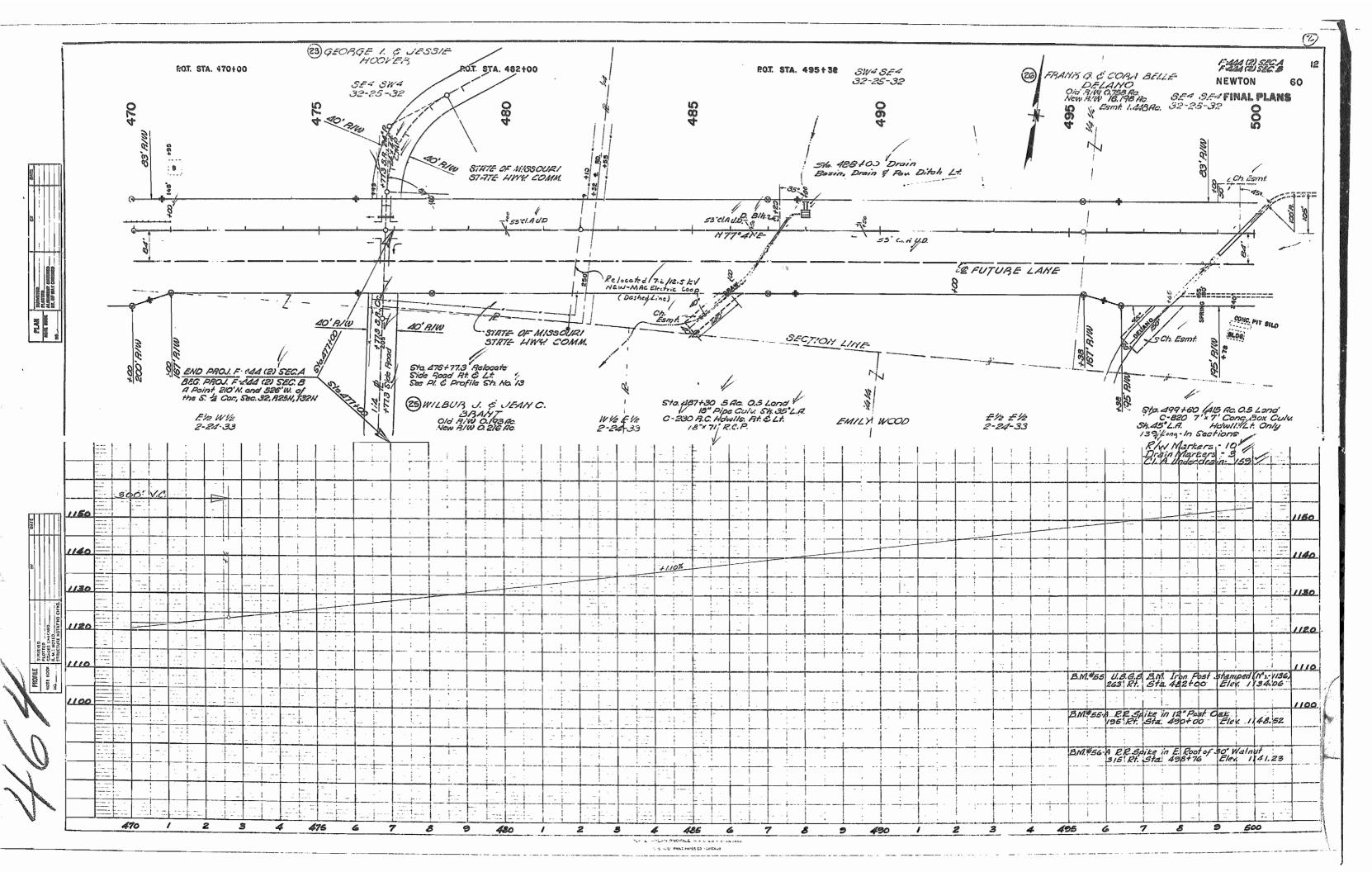


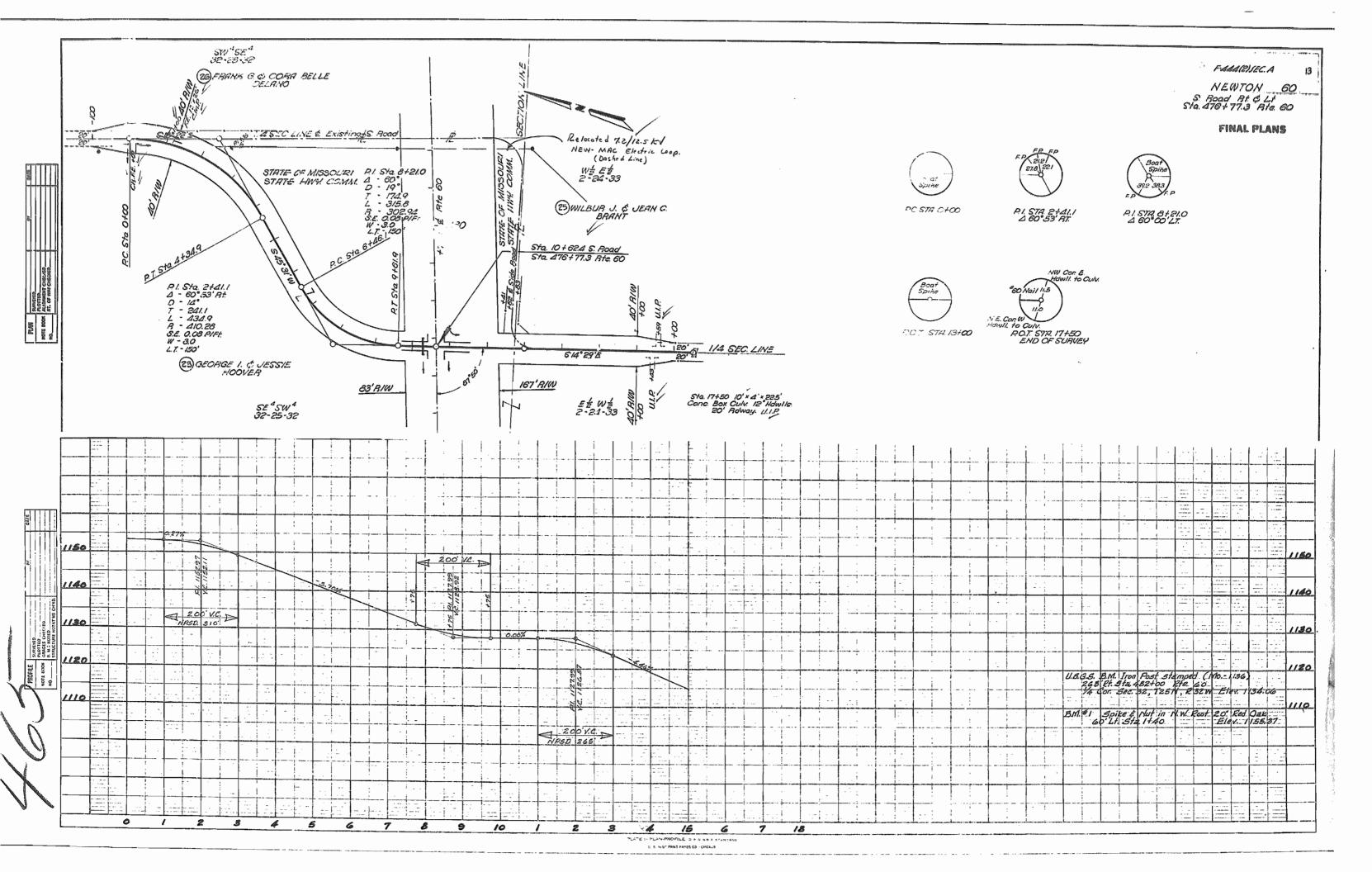


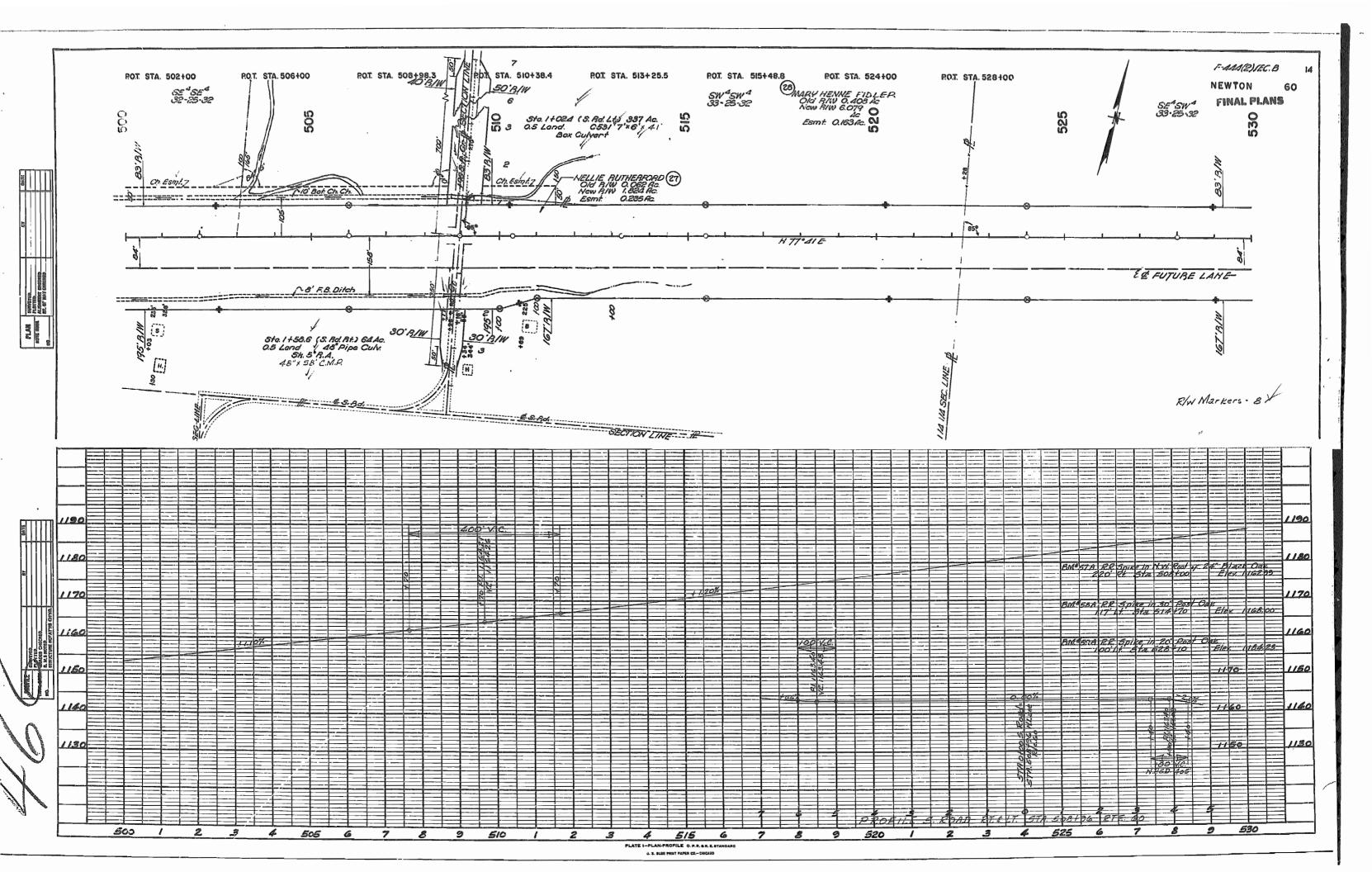


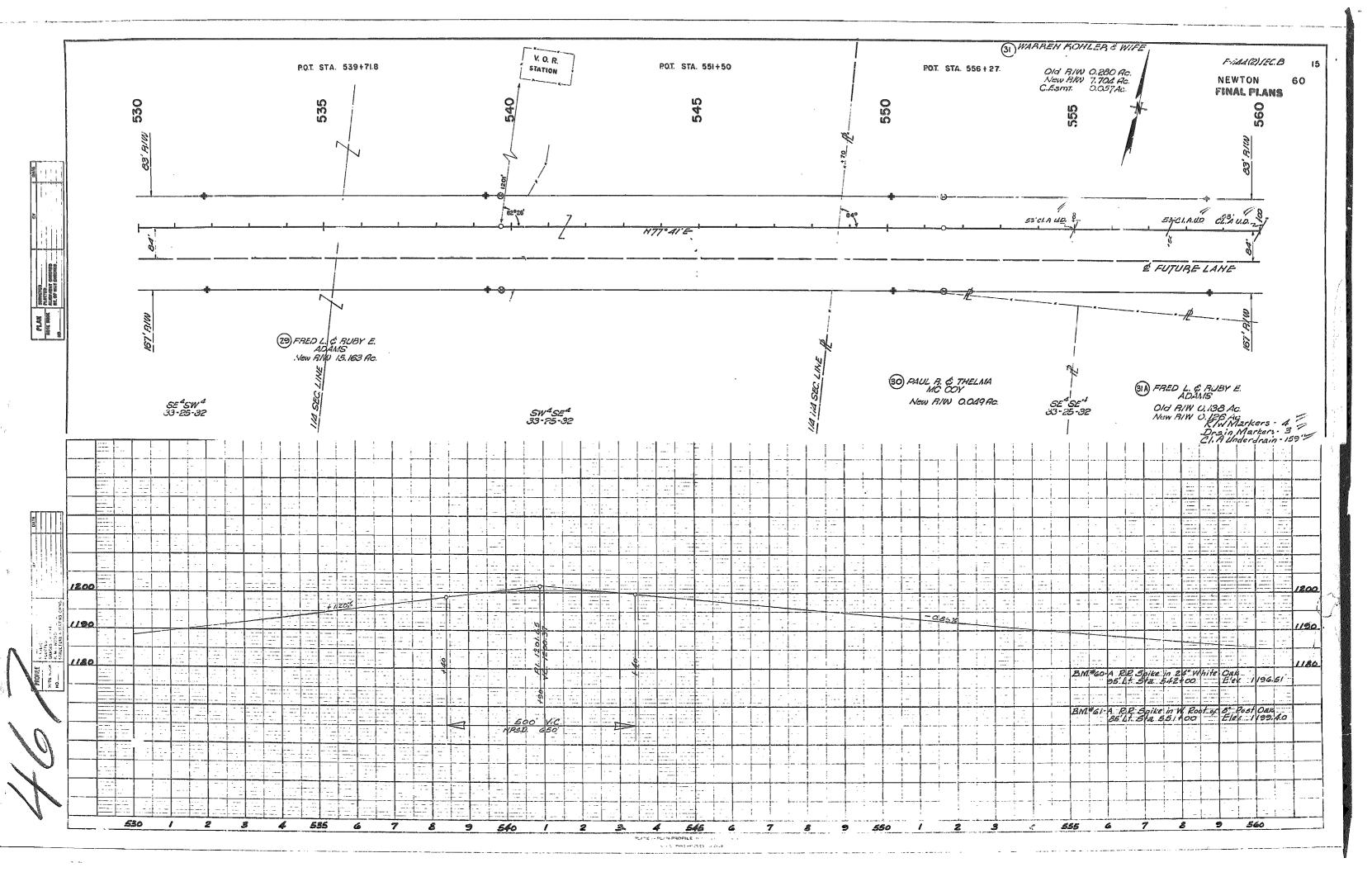
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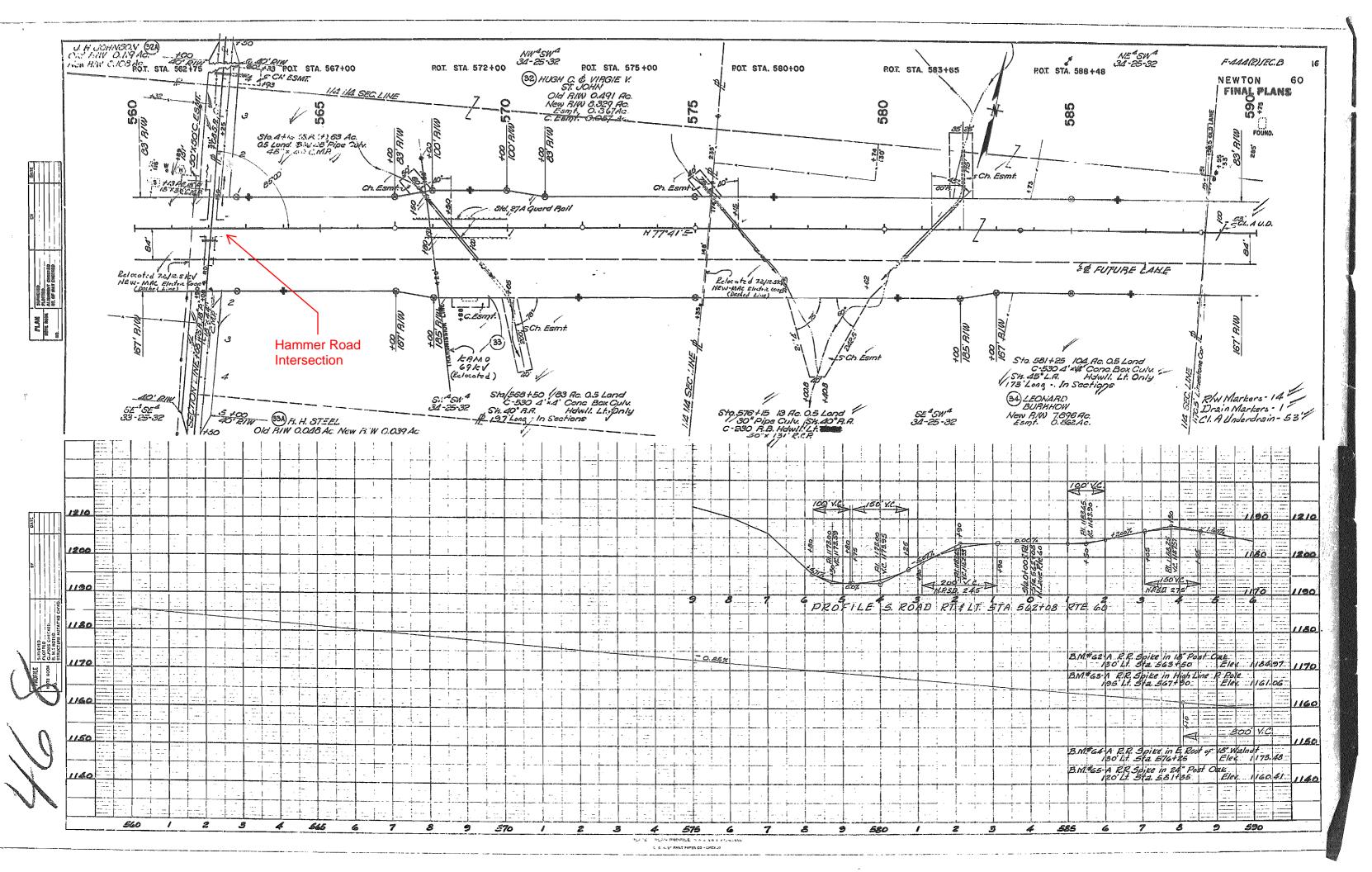
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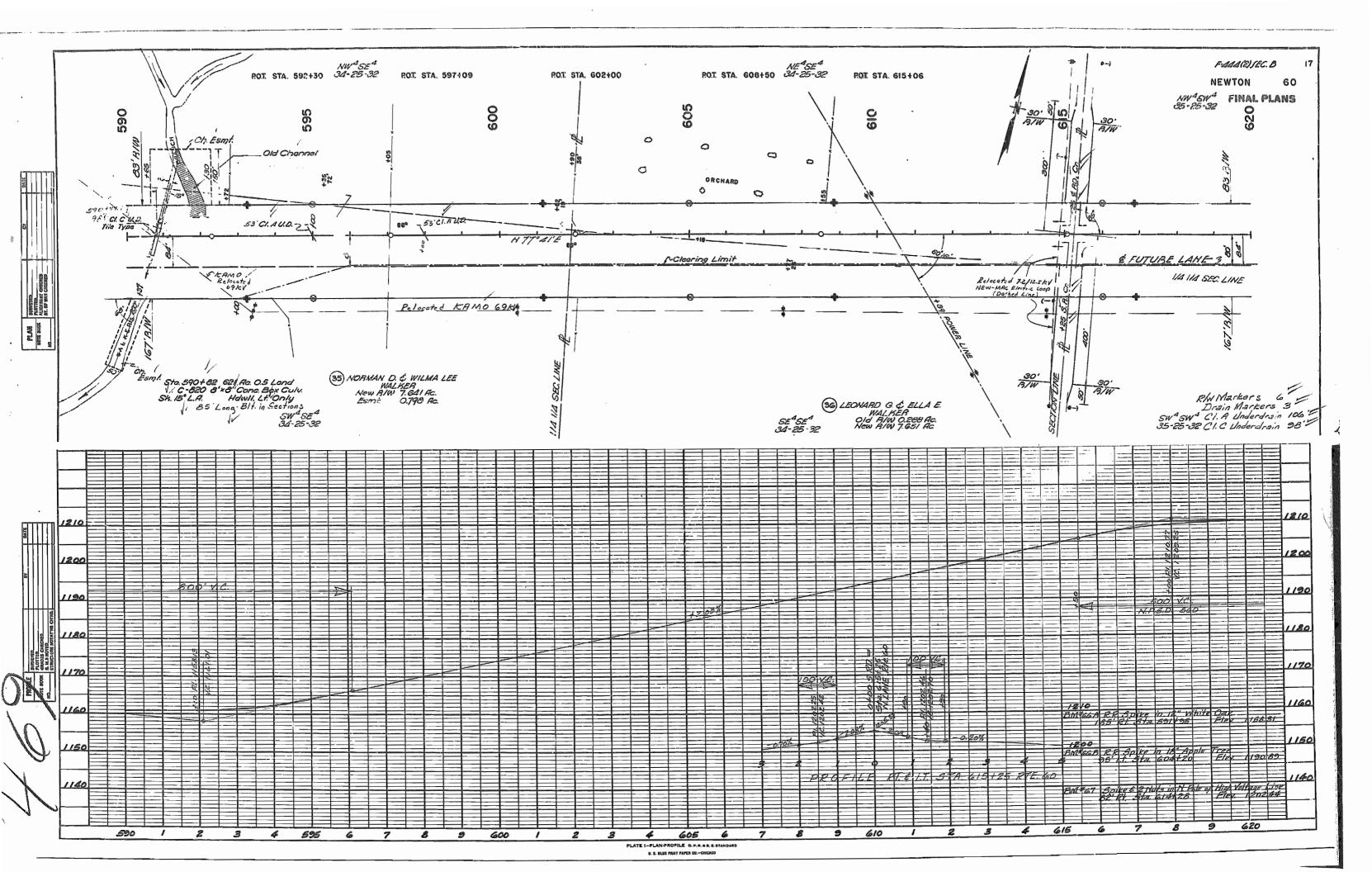


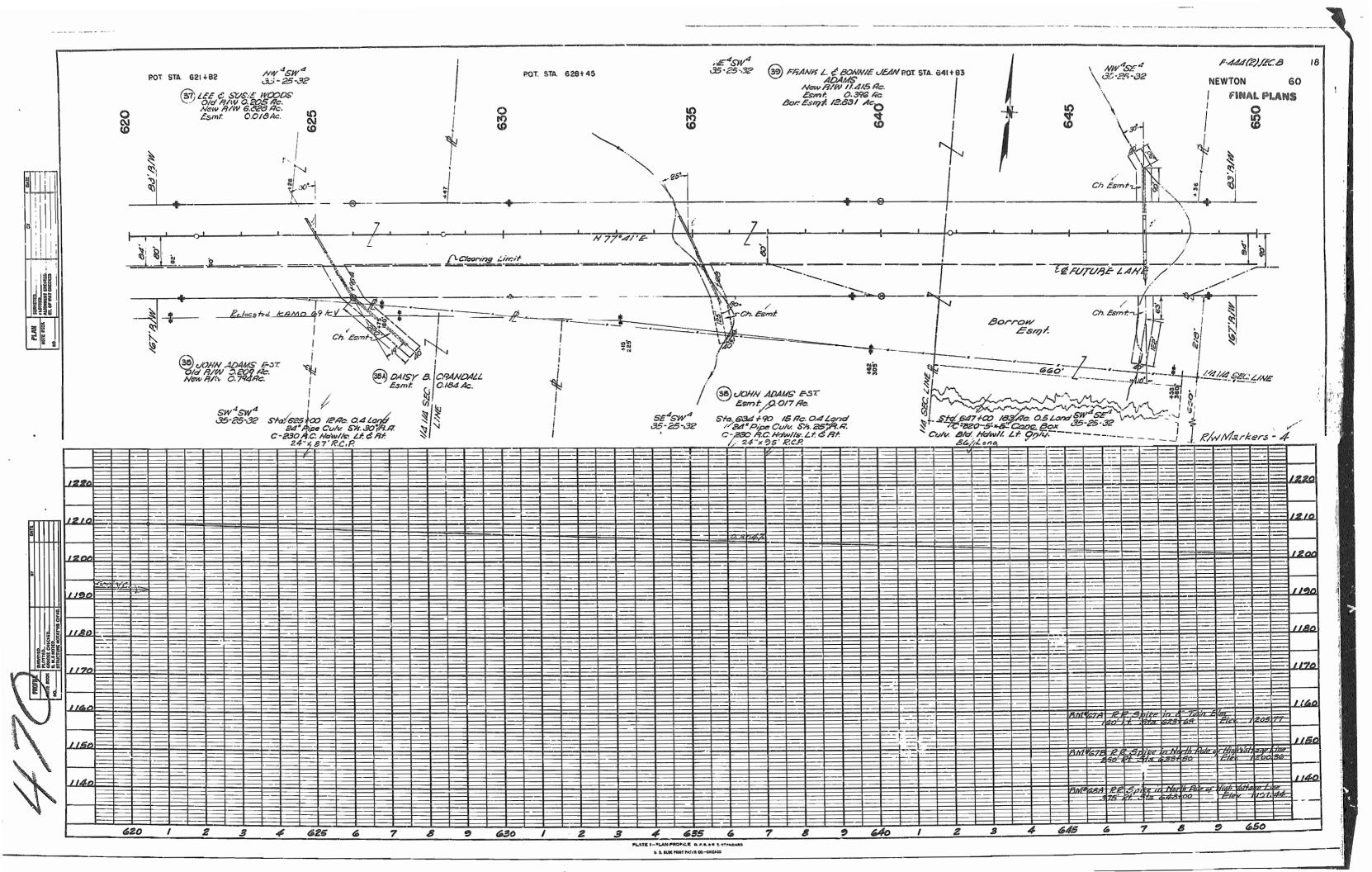


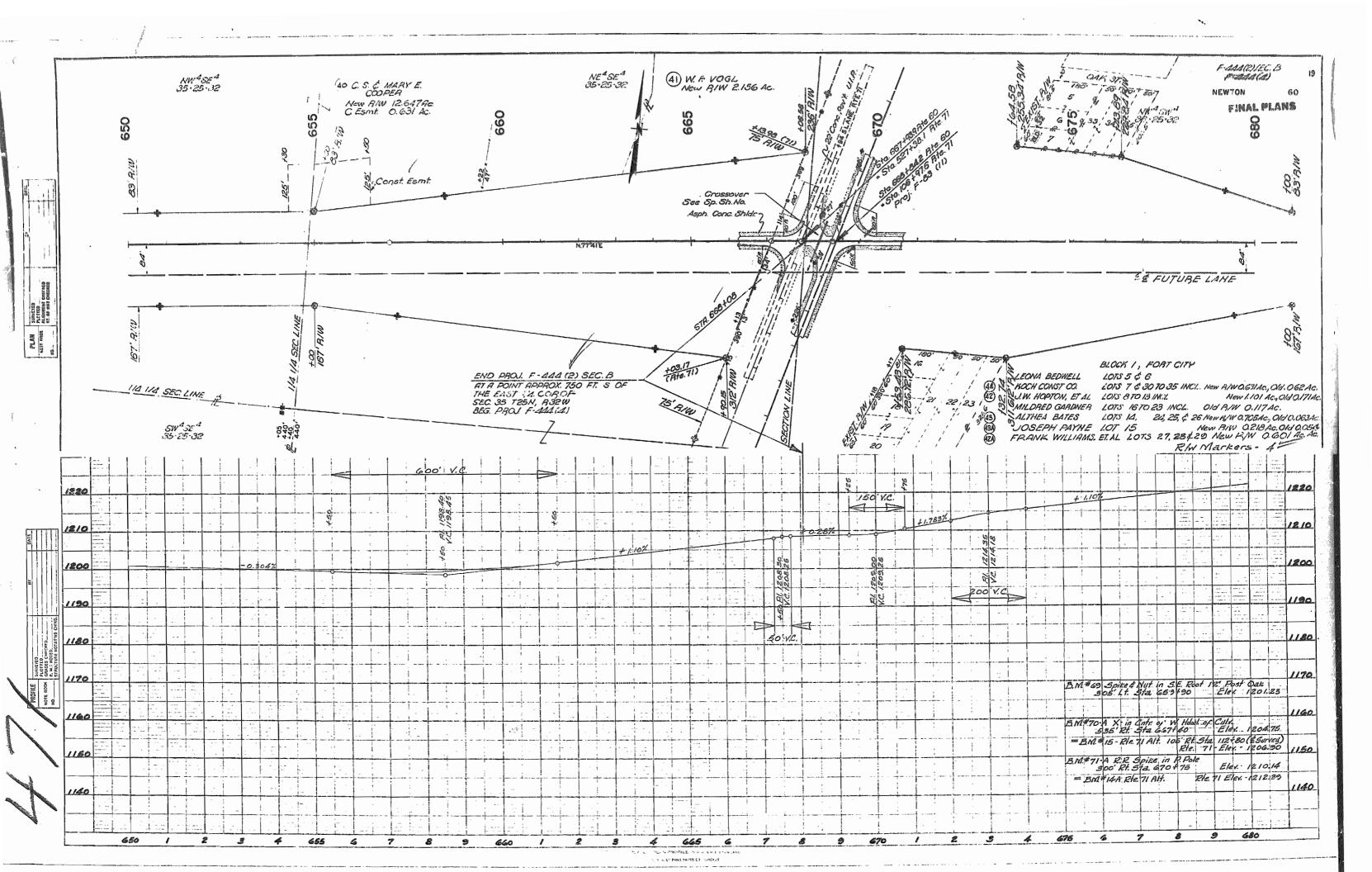


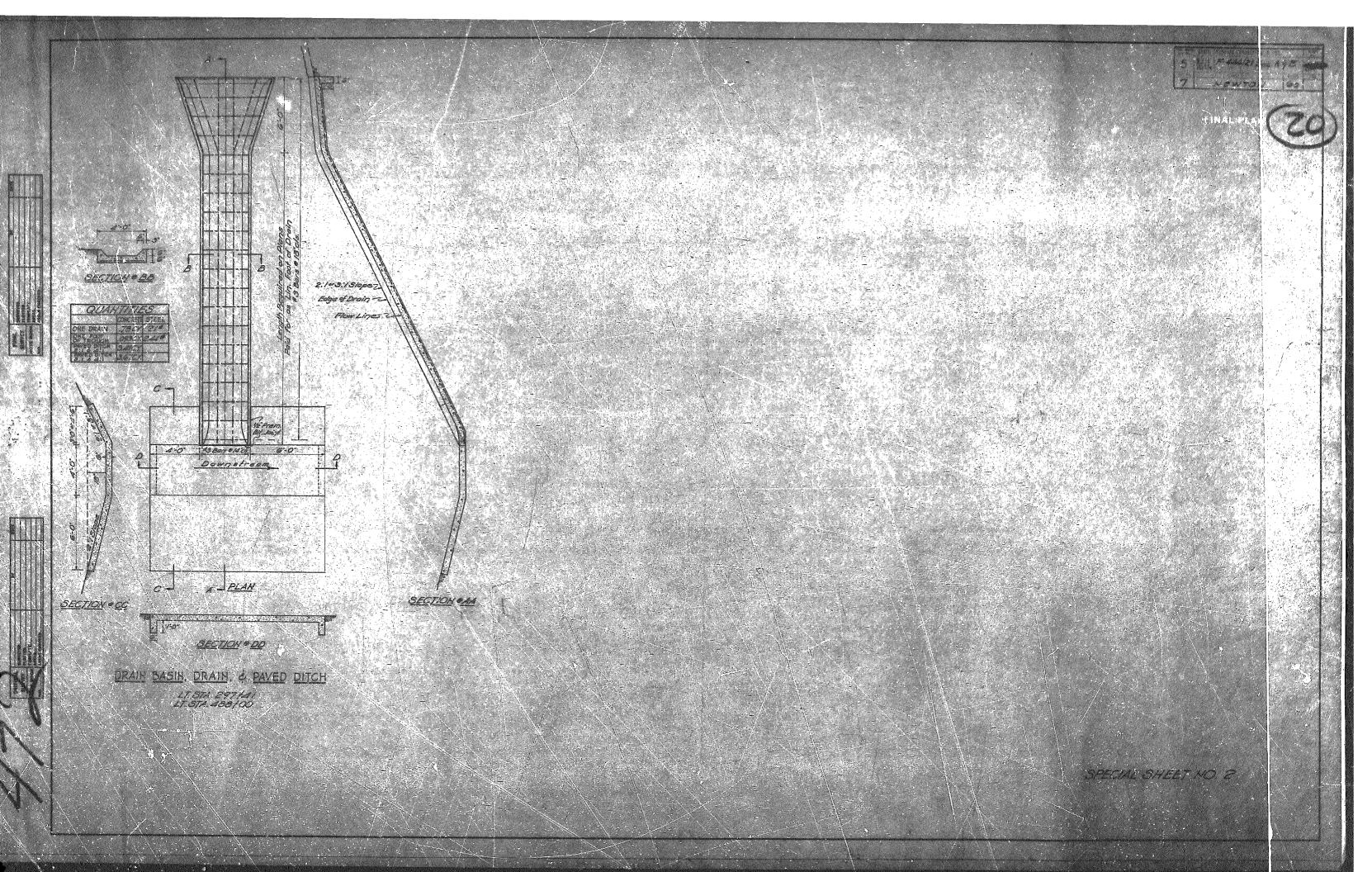












LIST OF STANDARD PLANS

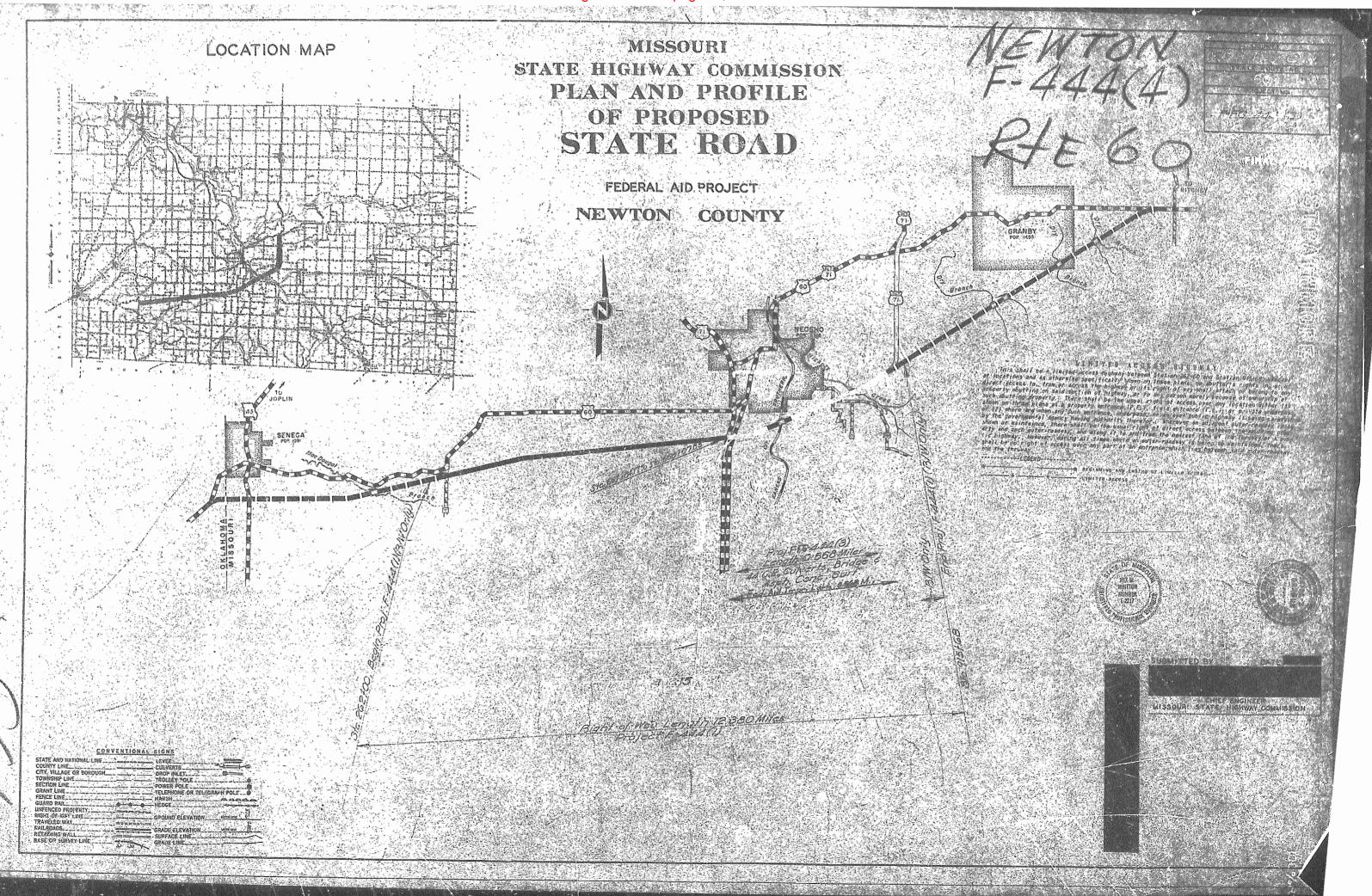
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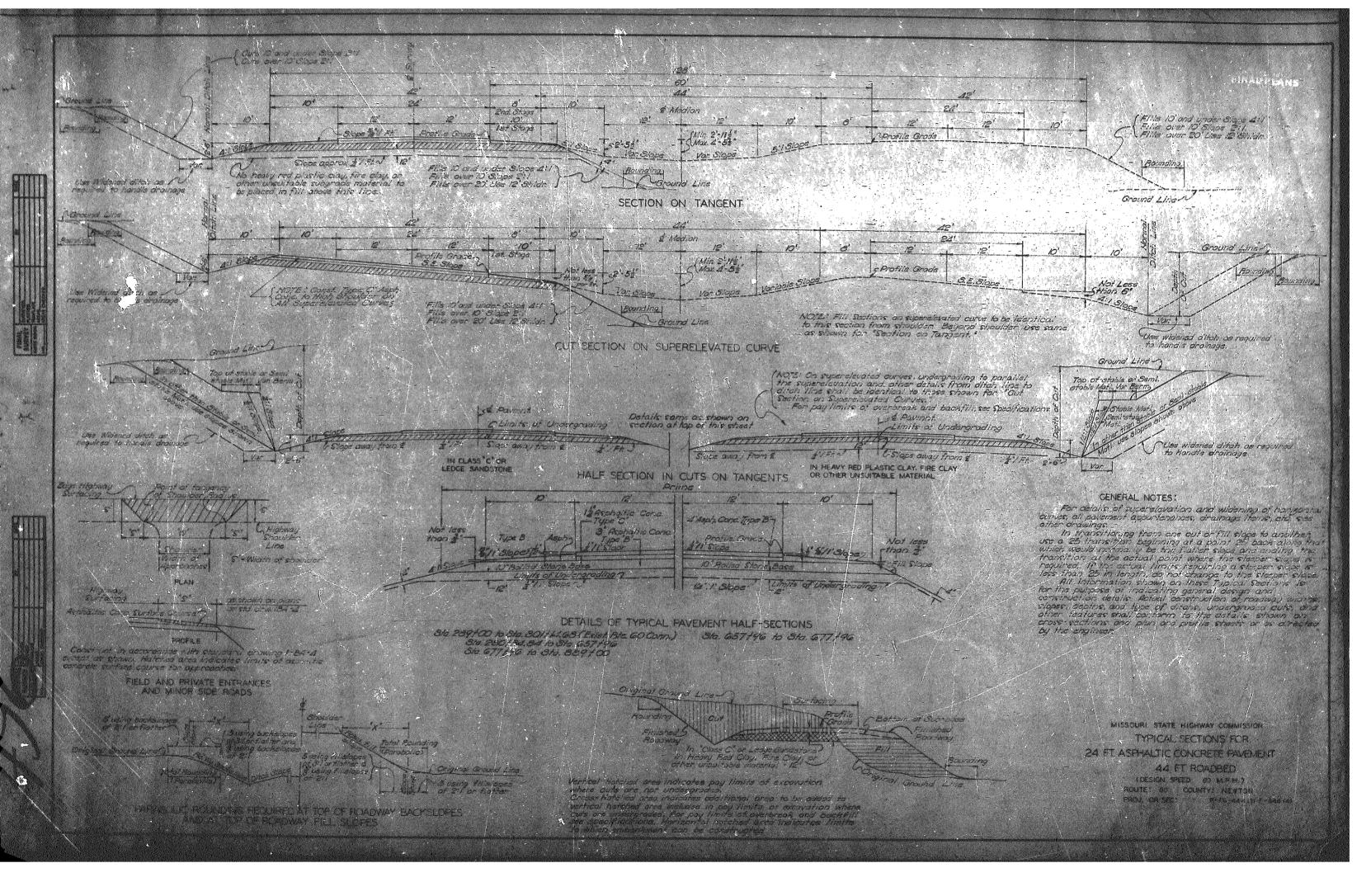
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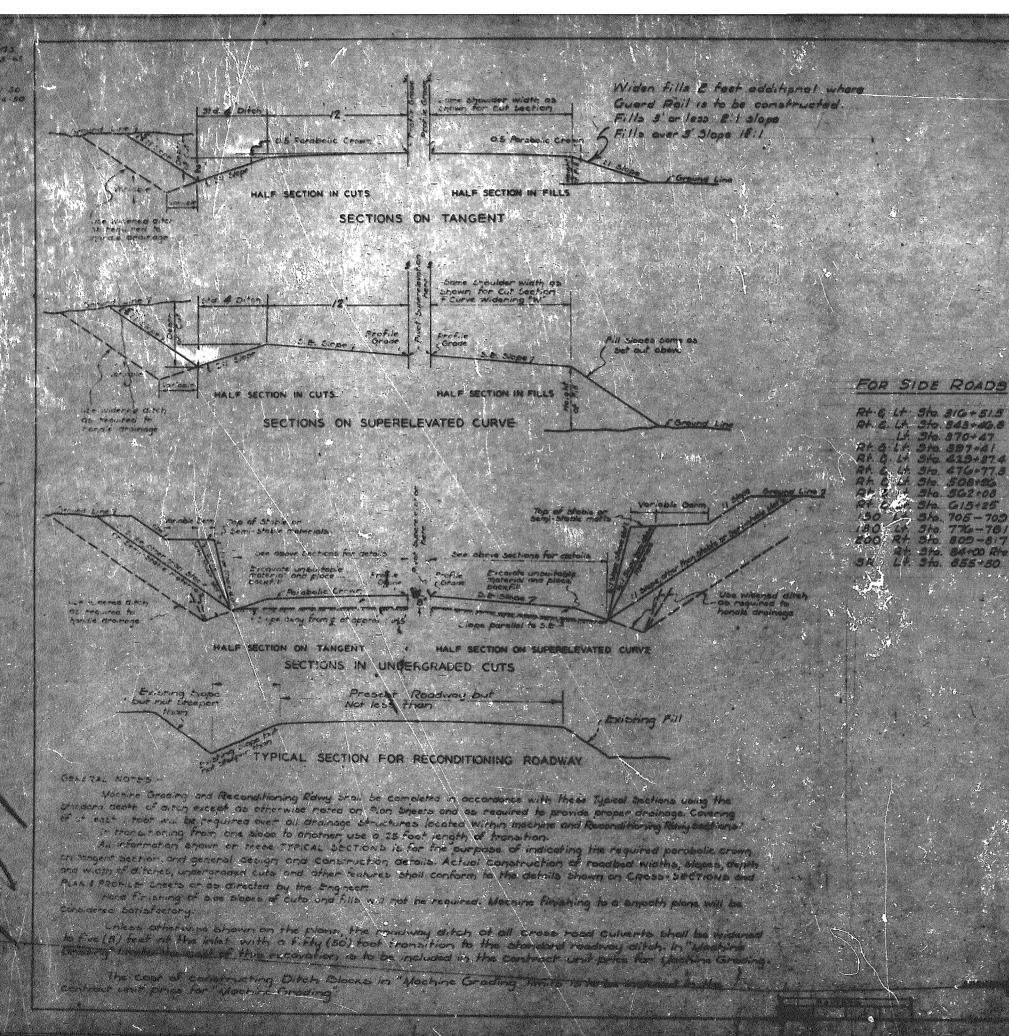
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FOR
SUPPLEMENTARY ROADS

LOCATION FROM BOOTE OF MOREWEASTERLY TOWNSON GROVEY

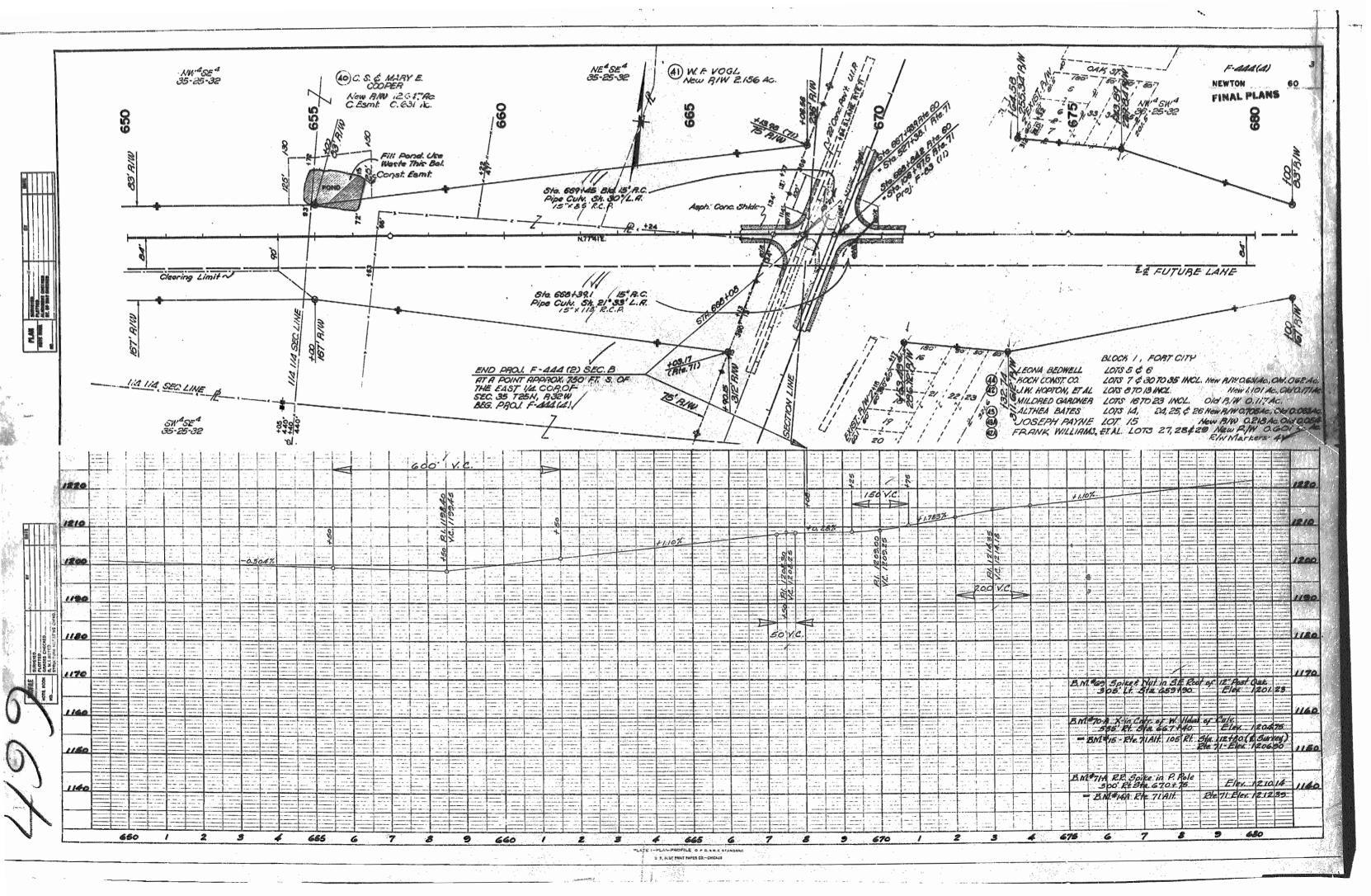
MISSOURI STATE HIGHWAY COMMISSION

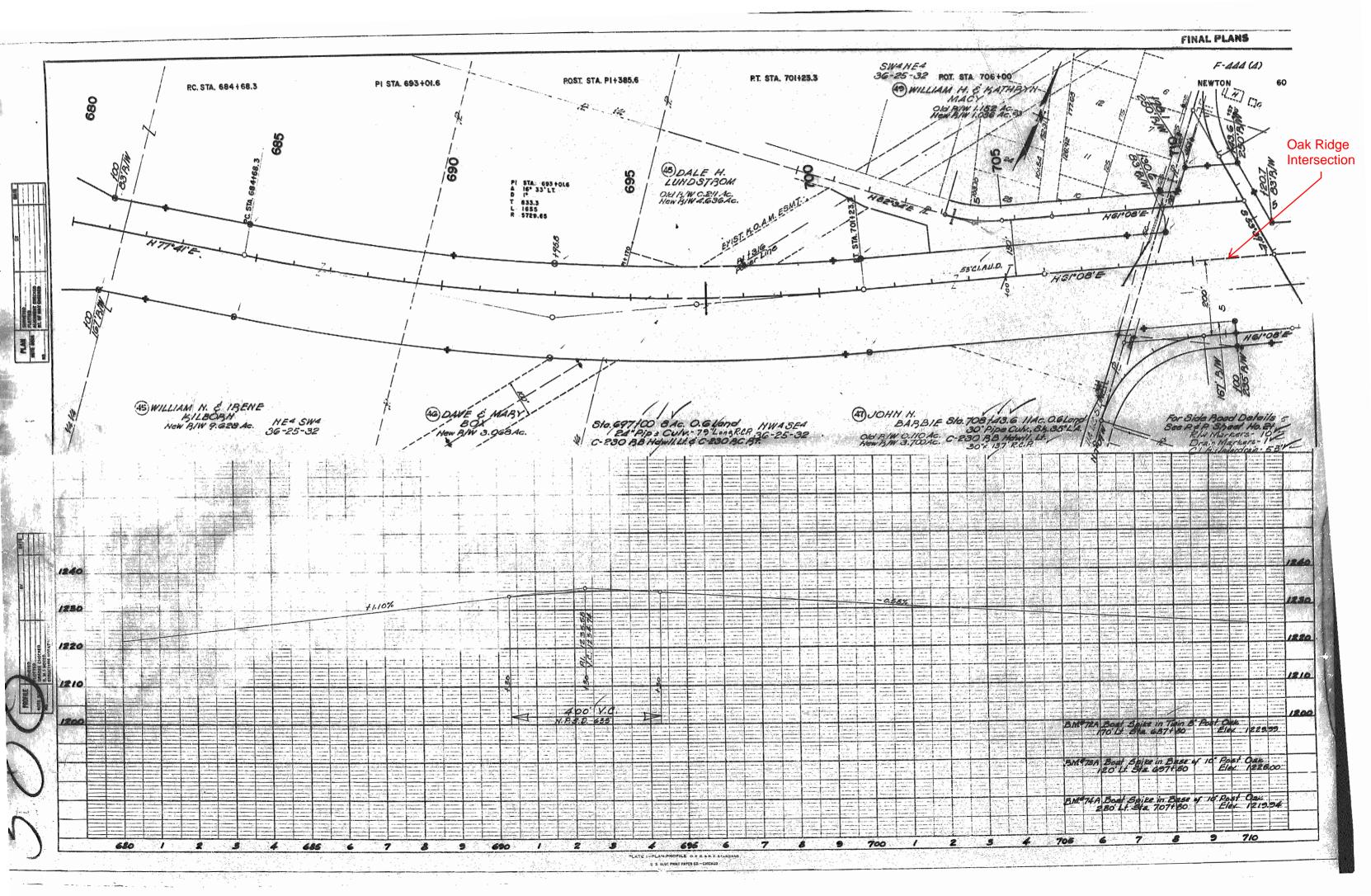
SUMMARY OF QUANTITIE

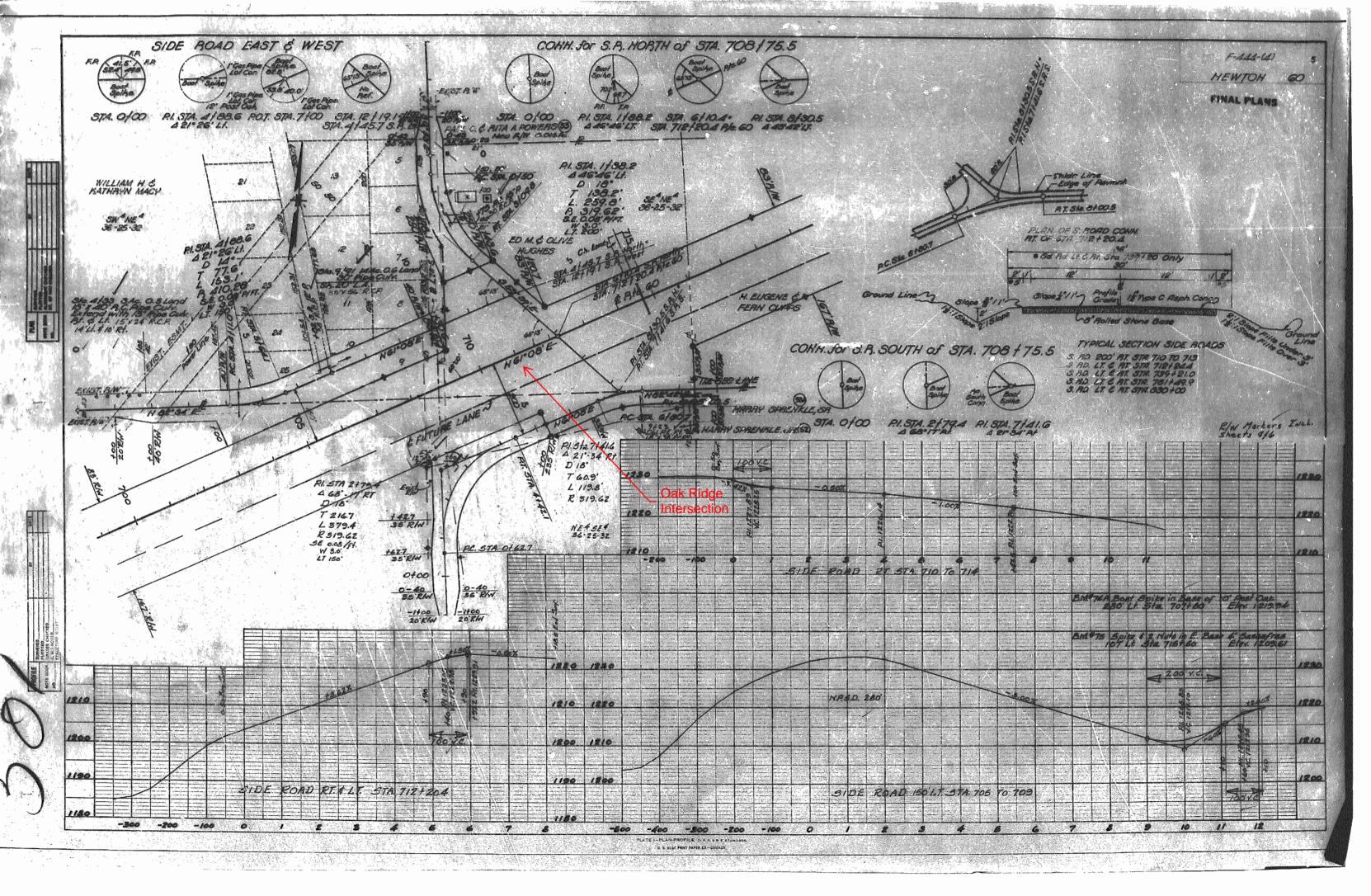
FINAL PLANS S MO. F.444(6) 2:4 84

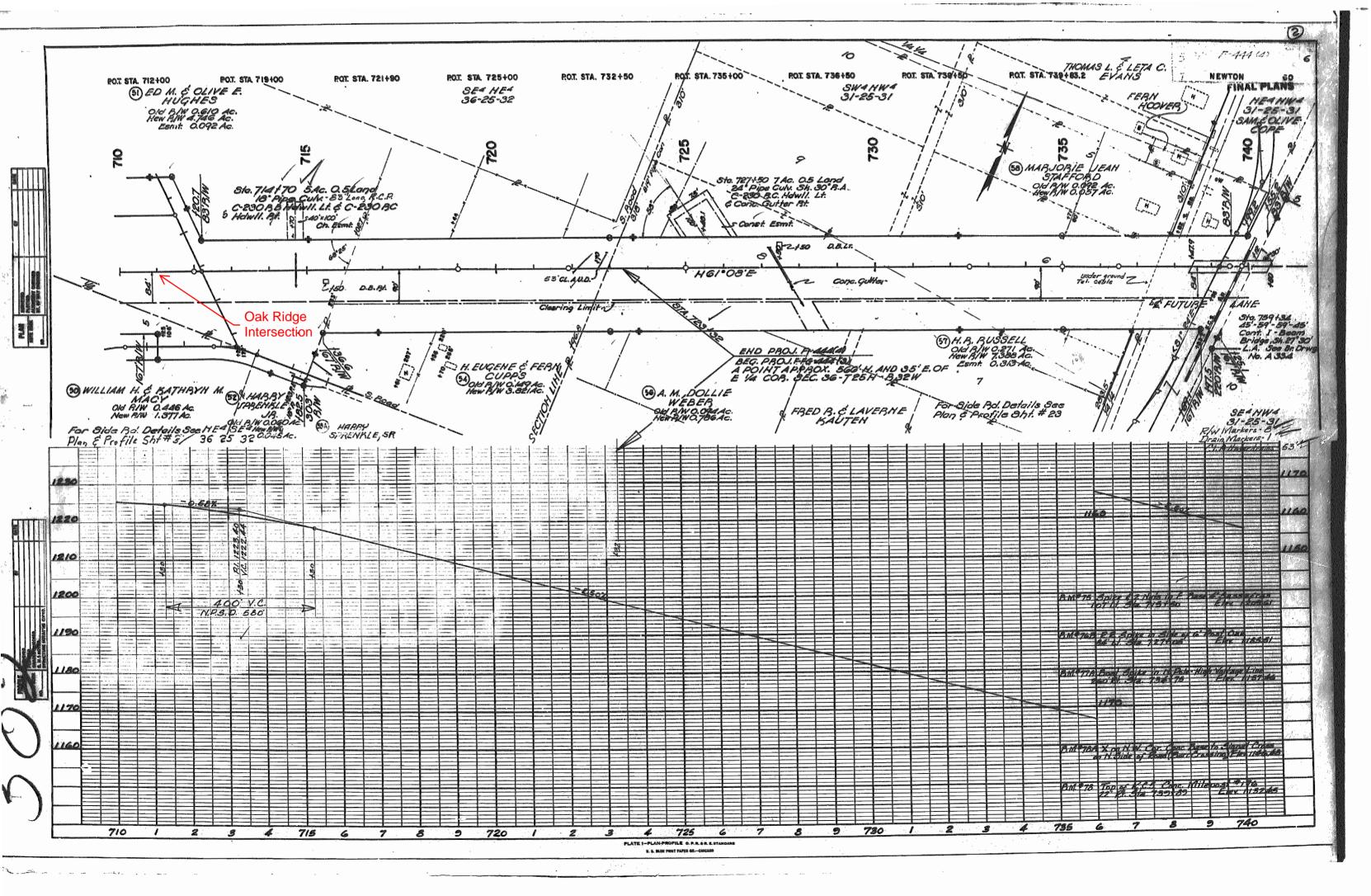
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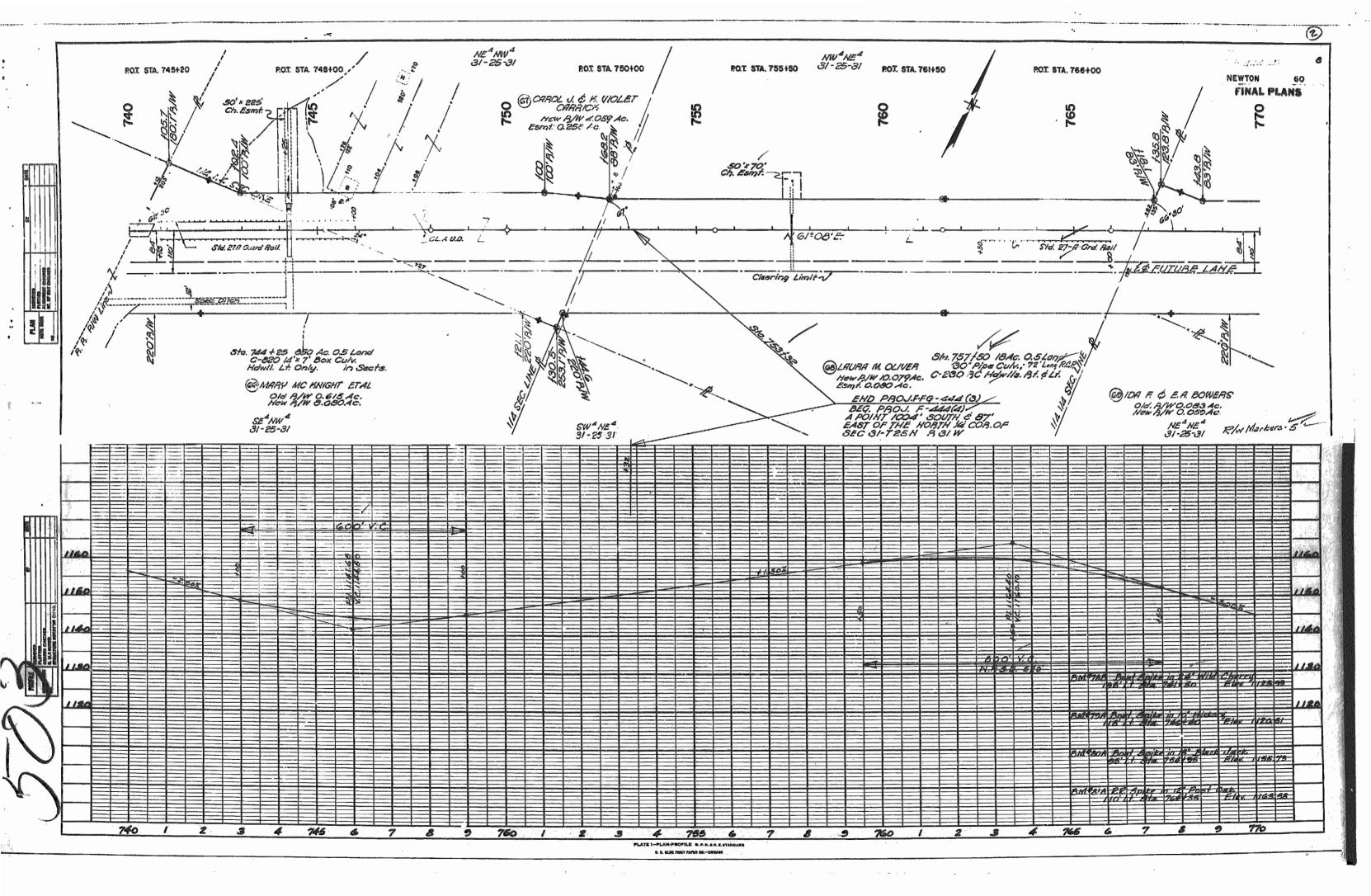
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	Station to Station Side Type Linett Remarks 3400 F. U. 24 Text and Text A 850 Fill Over 26 912 PRINCES			SEAL COAT (SHOULDERS)
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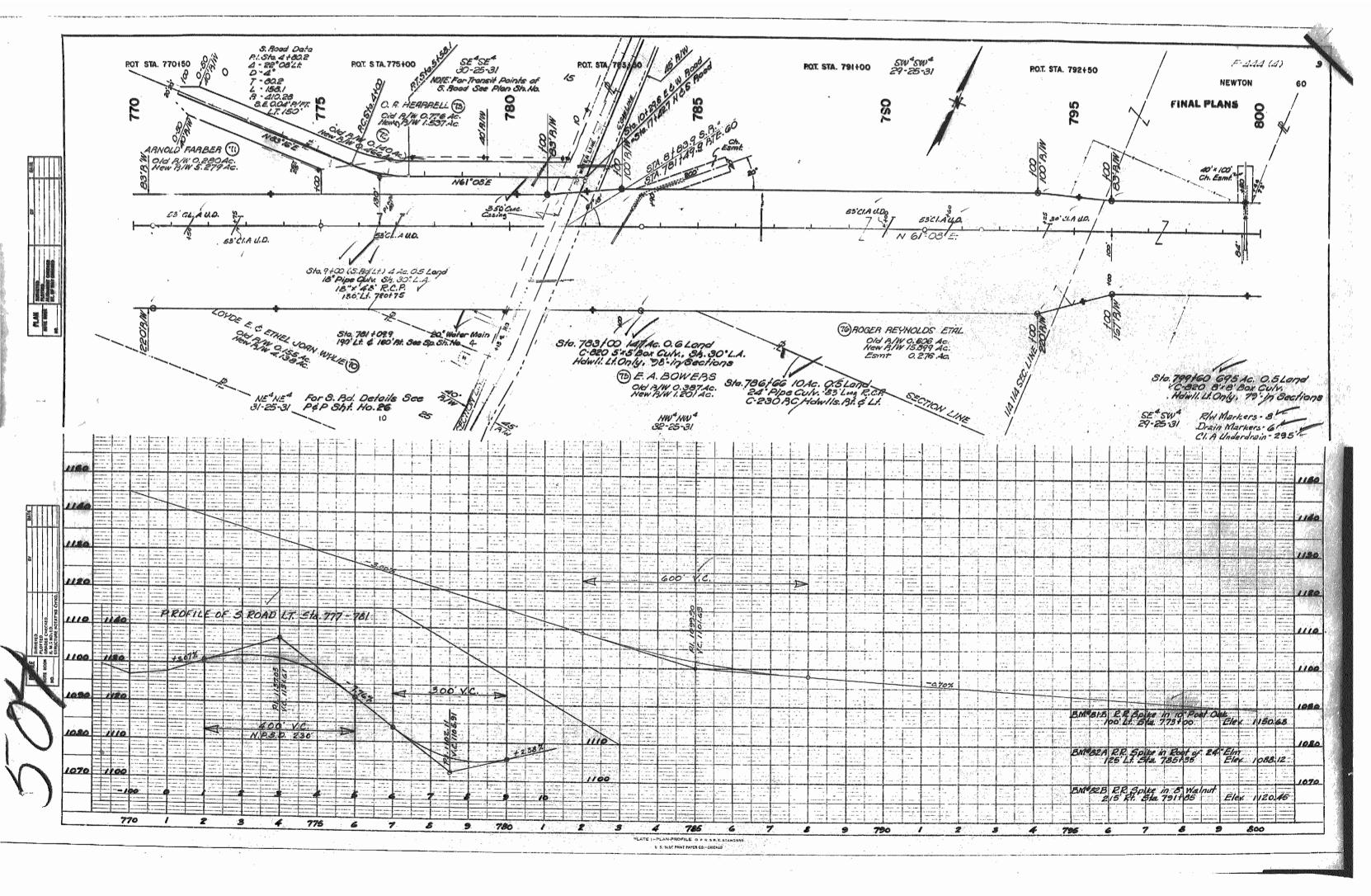


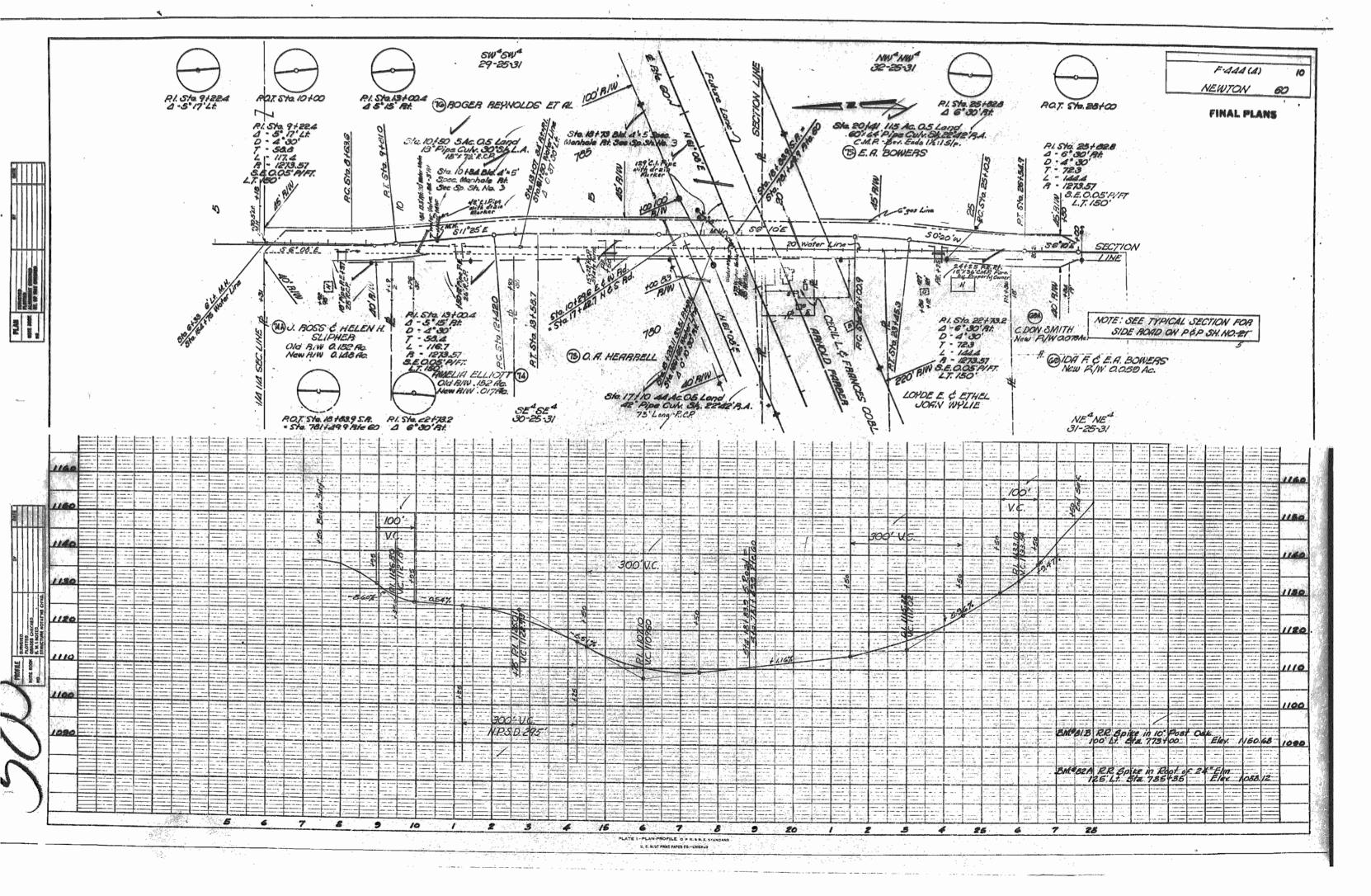


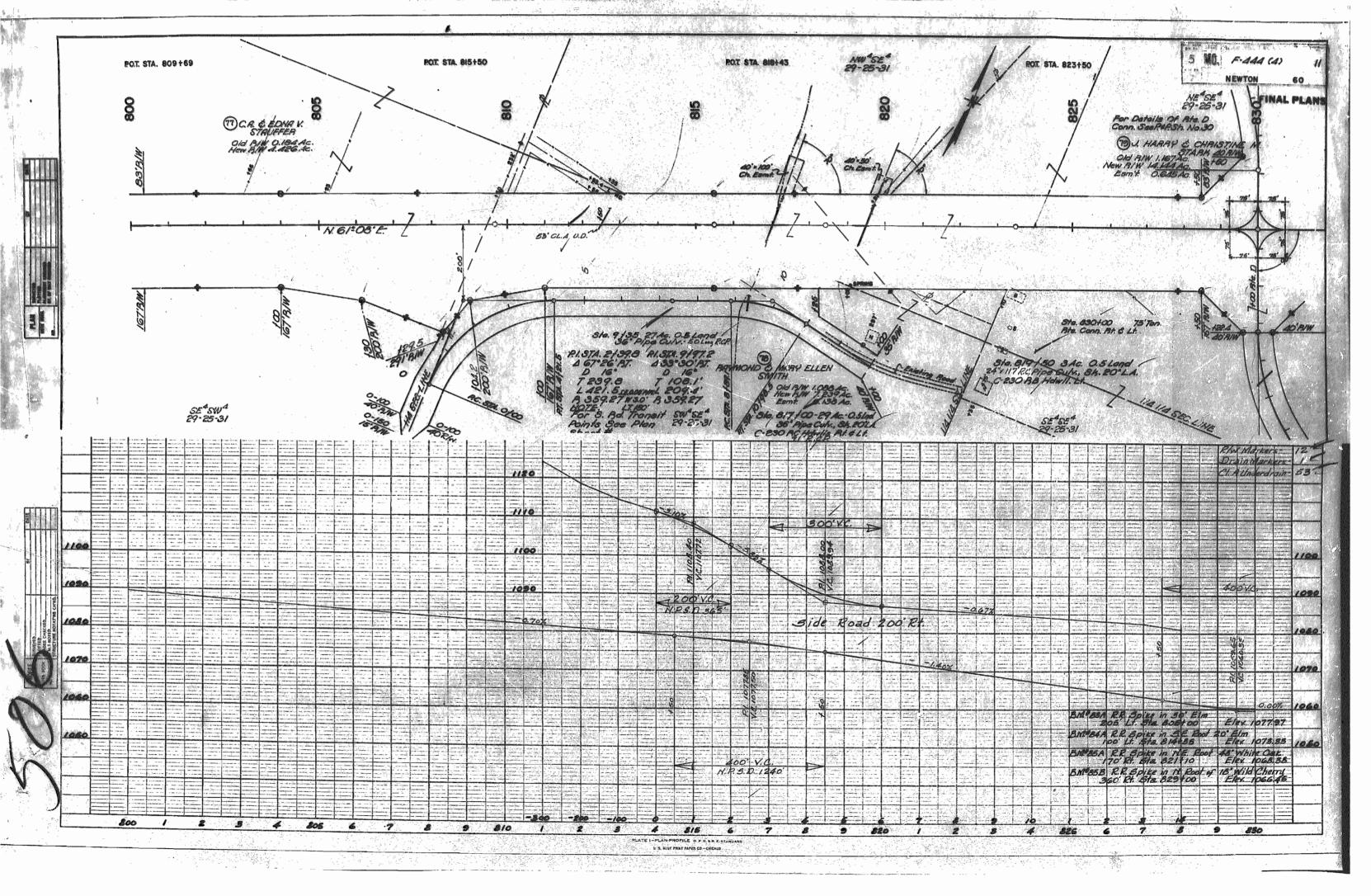


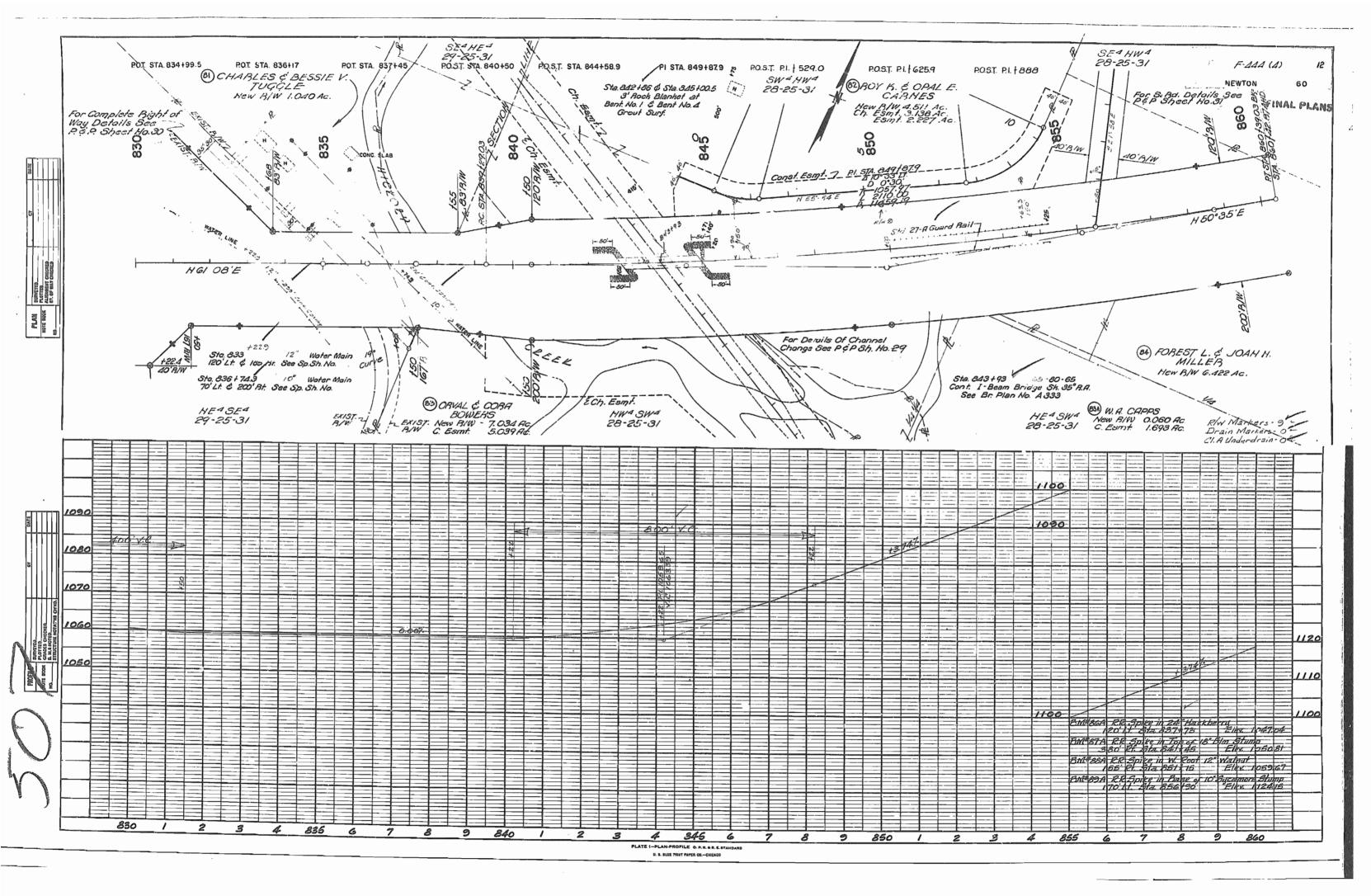


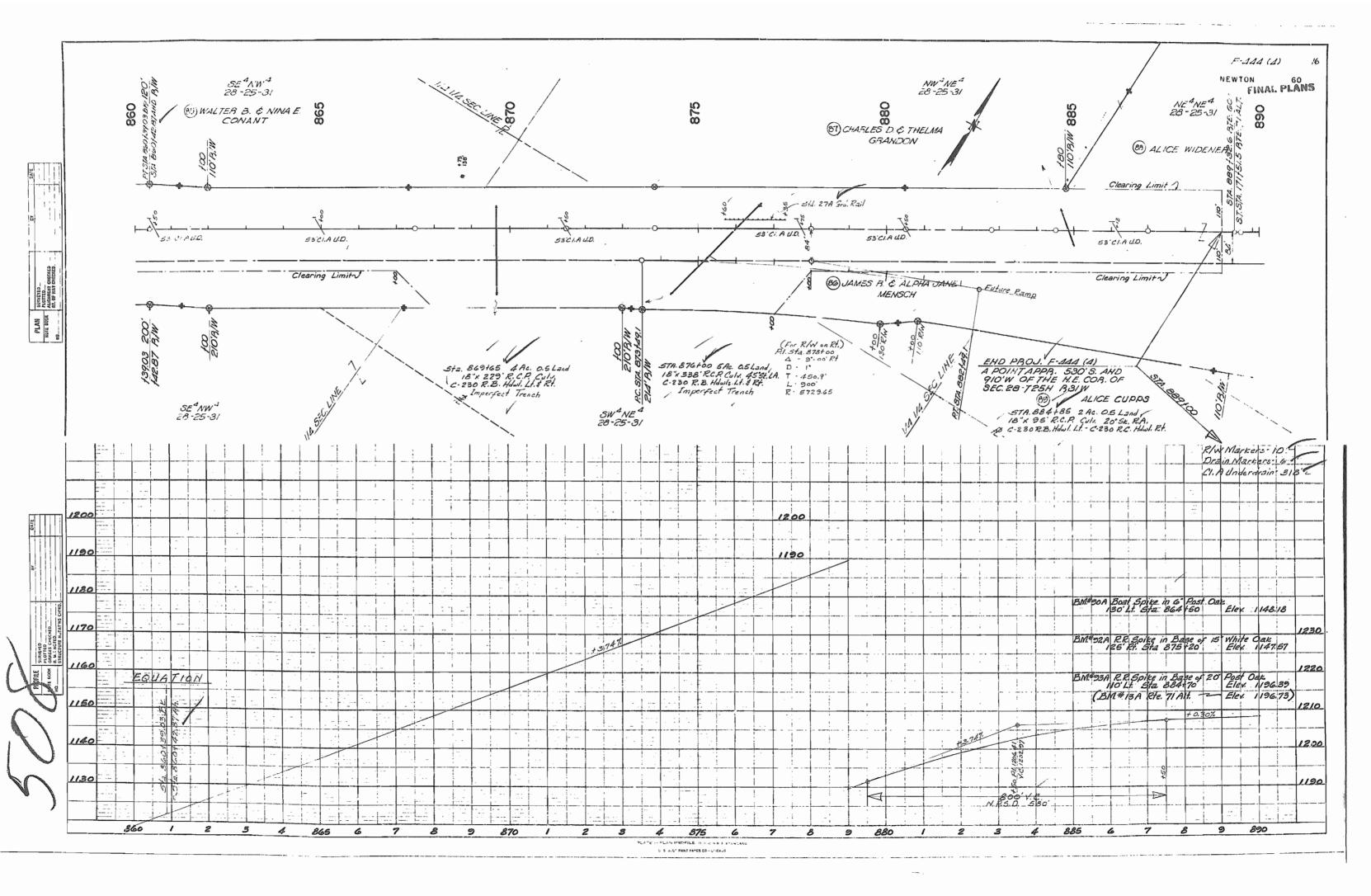


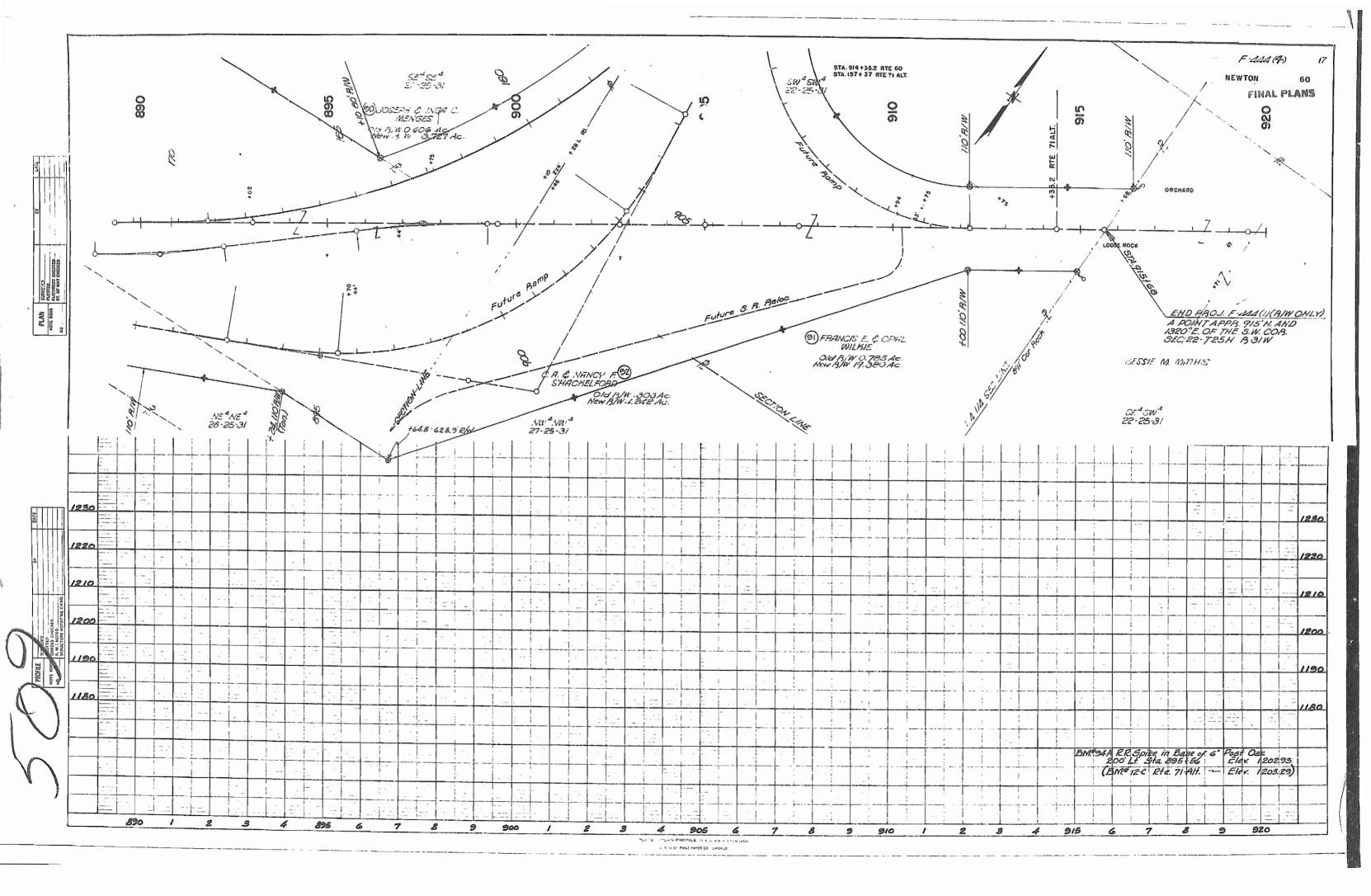


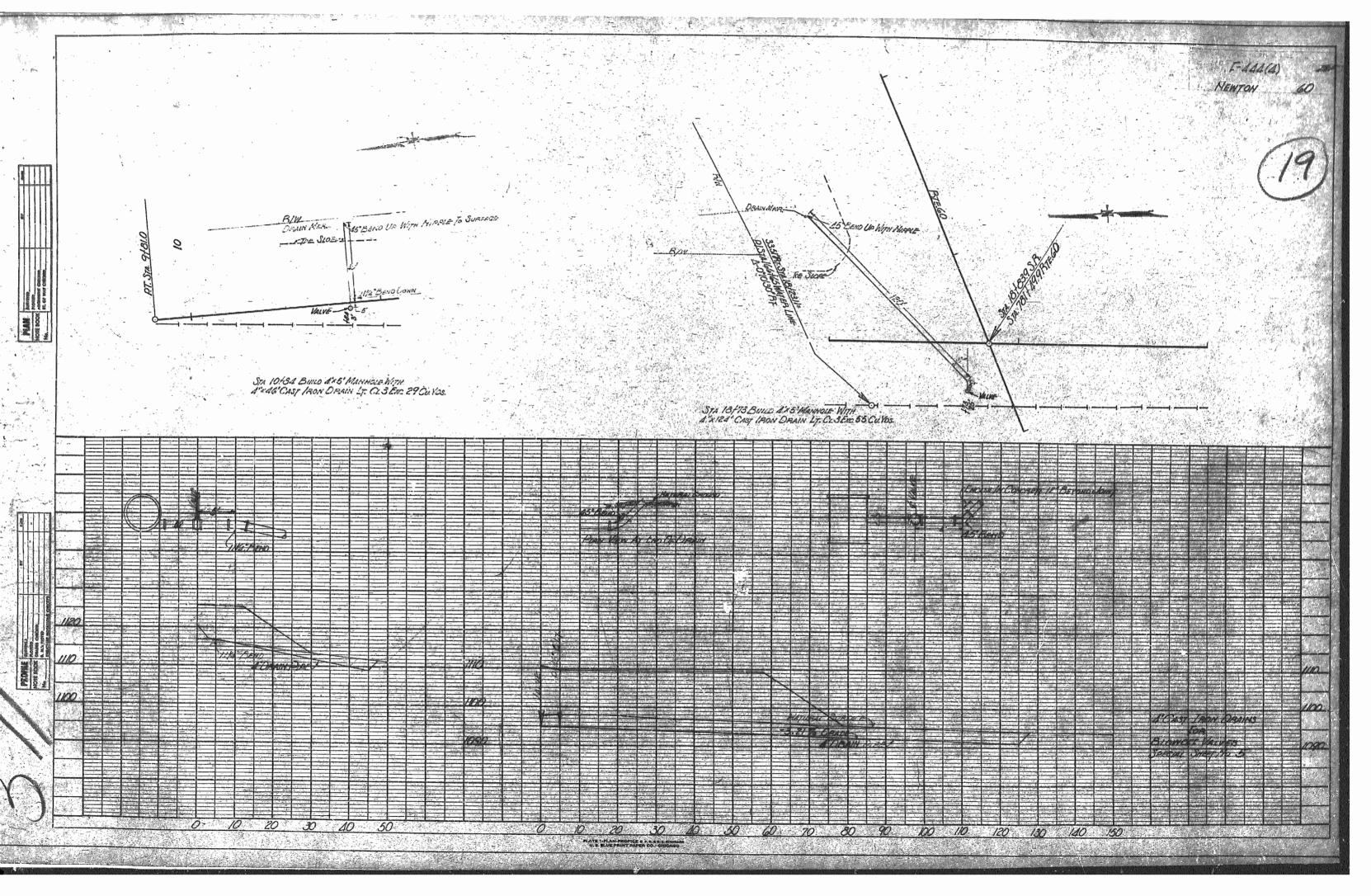


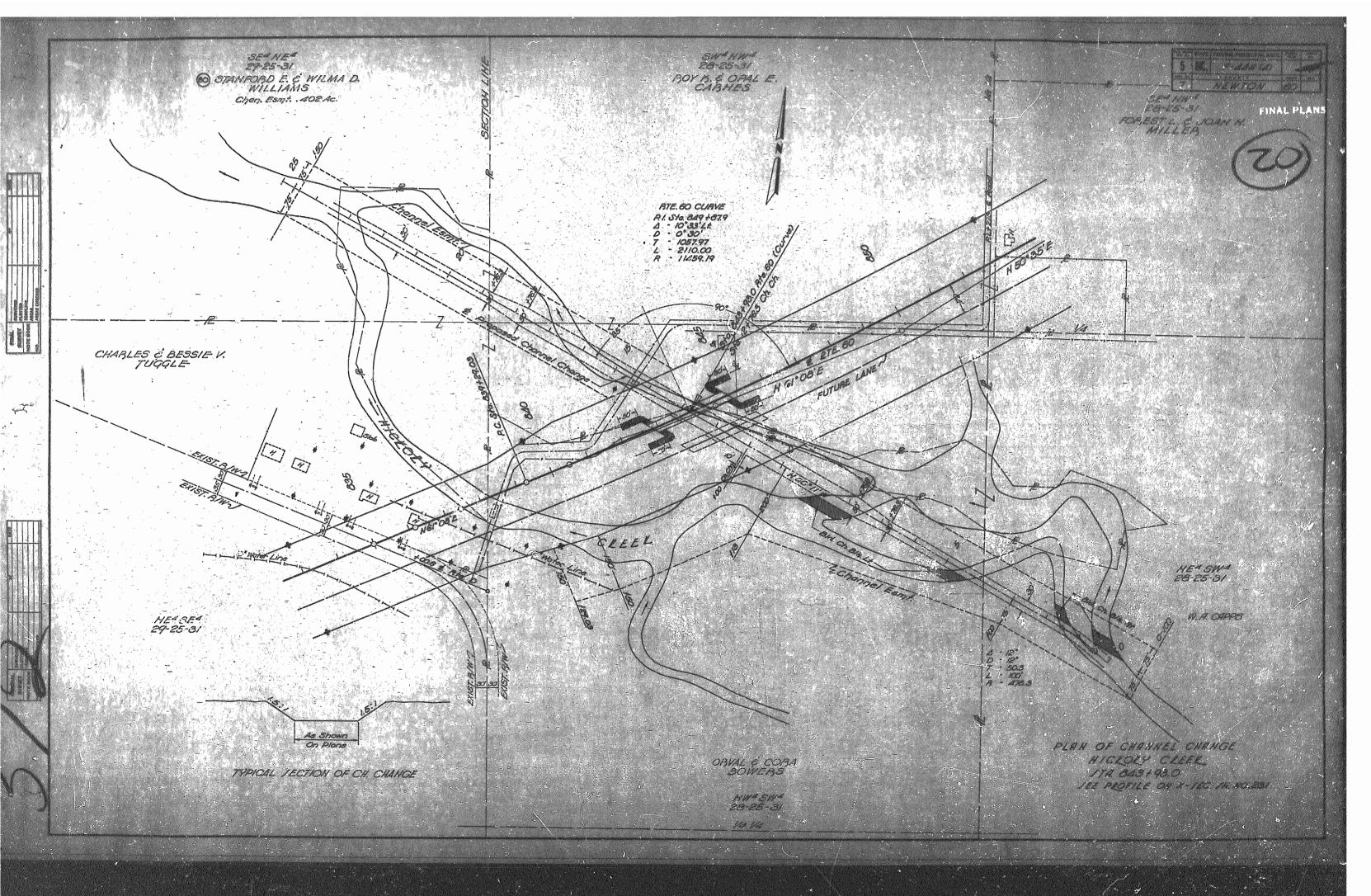


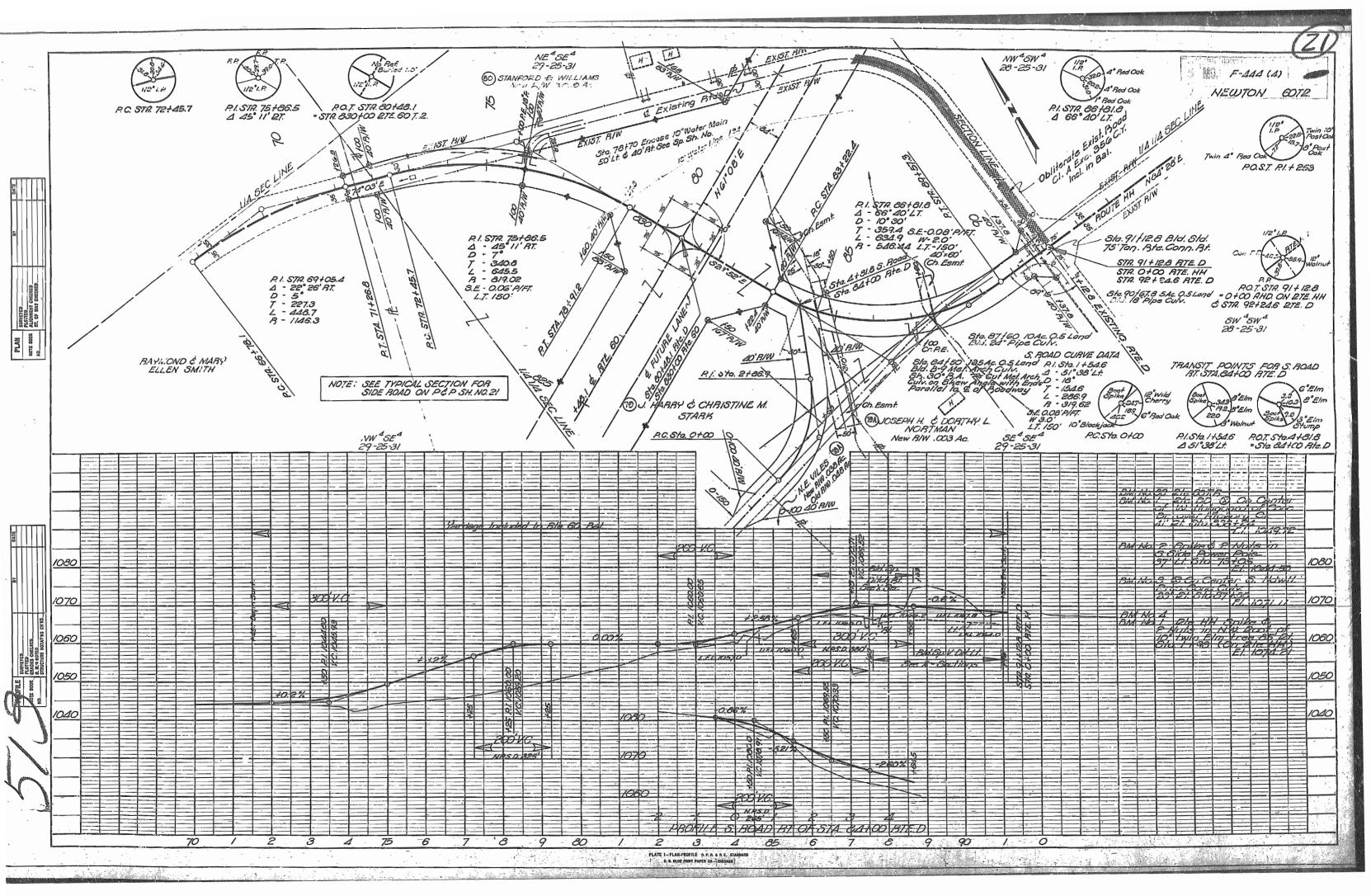


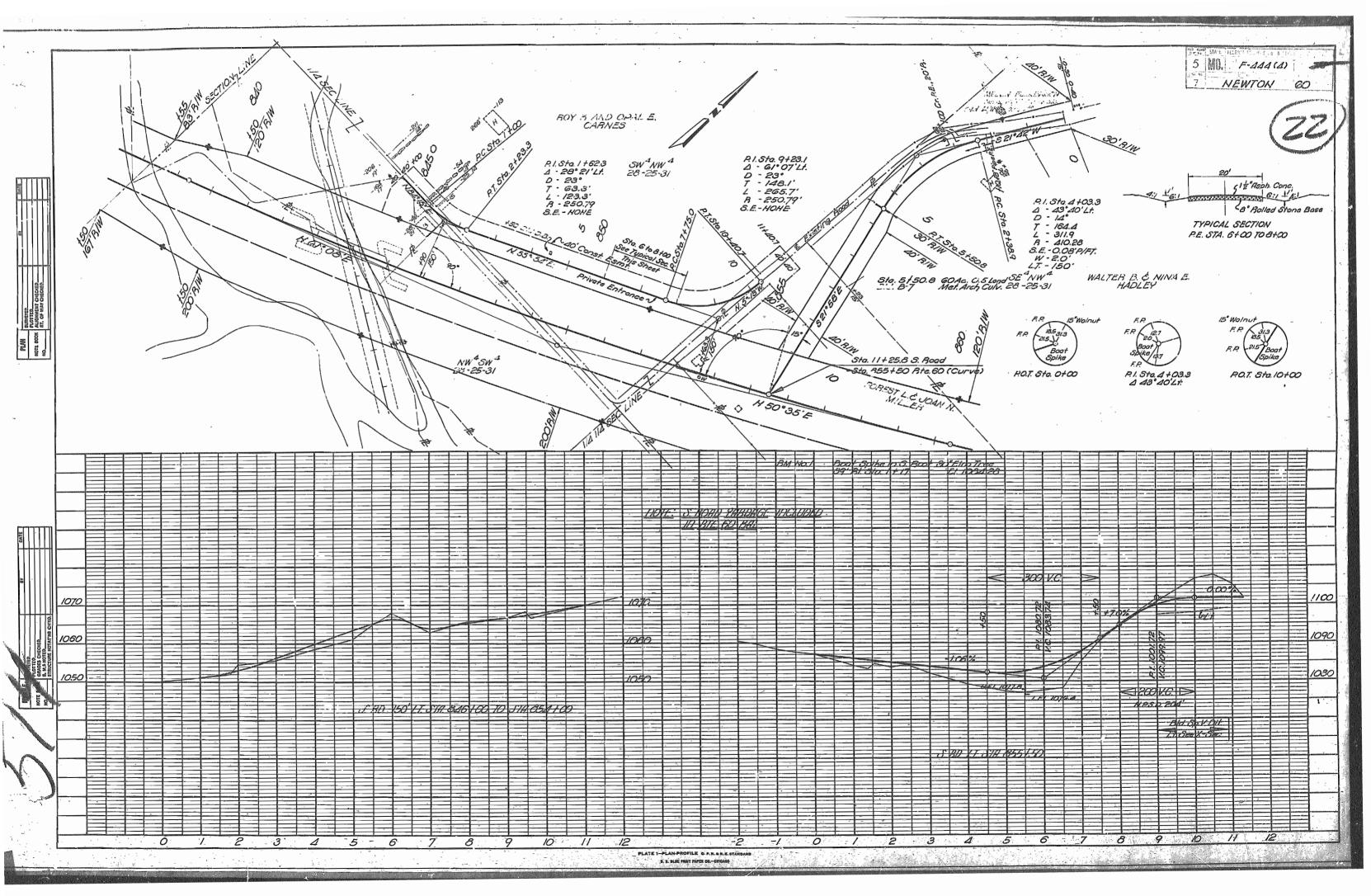


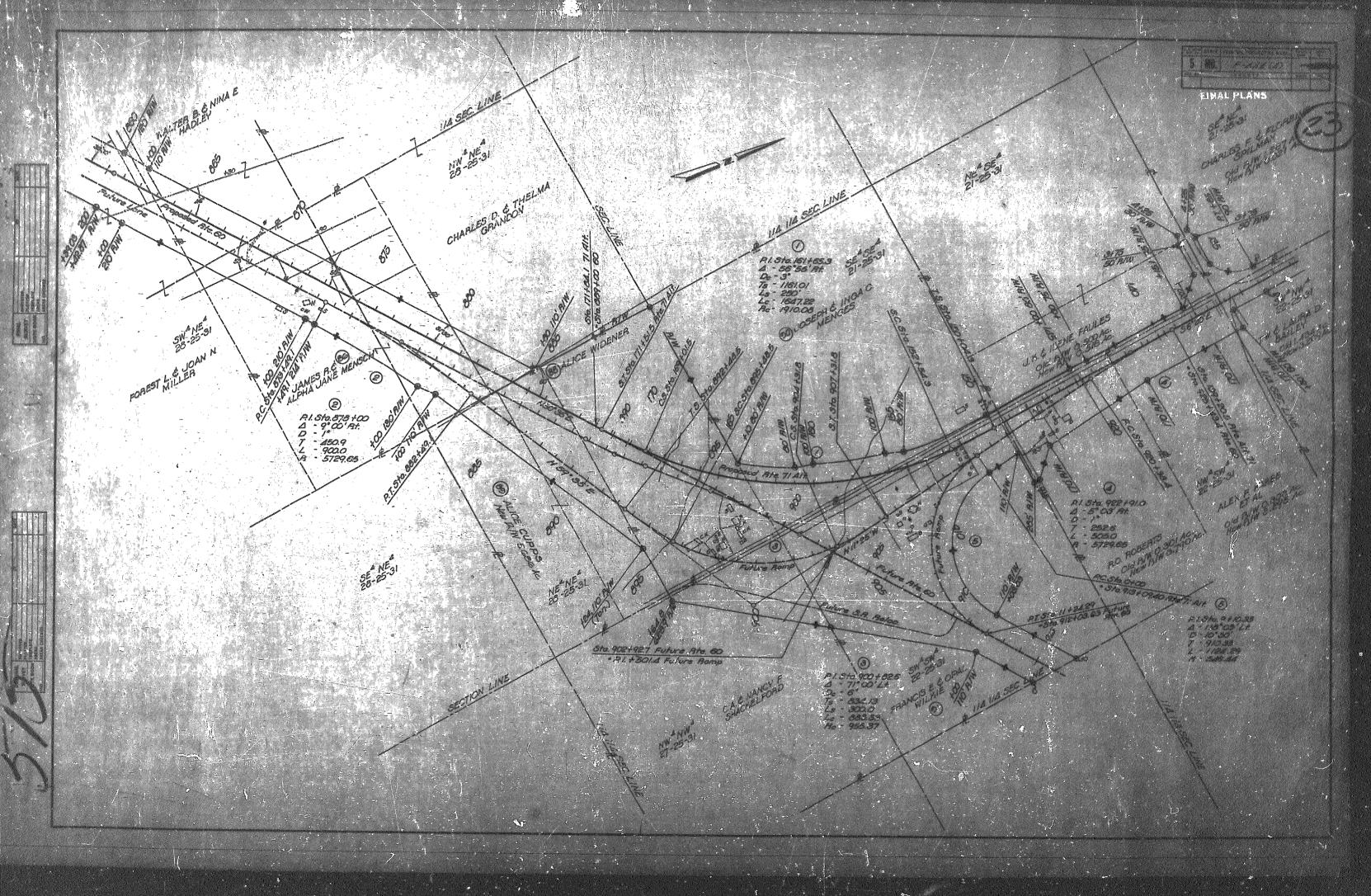












LIST OF STANDARD PLANS

PROJ. SHEET

F- 444(4) 24

CO. RTE.

							NEWTON	60
181-4	- Aller Control of the Control of th	(6-9-54)						
1720-1		(1-55)						
16 A-3	4	(3-16-59)						3
161-2				 				
244-5		(4-22-55)		 				<u> </u>
27 4-20		(11-5%)						
2842				 				
C 230 R2		(3-56)		 				
C 245R	to the second se		1					
C-820	1643	(4-23-59)						
C- 826	204-3			 				
C-820	30f3	A		 				
C- 20	-110			 1 Augustus				
CHORT	William Market Committee C	-						
	-			 	_			
						,		
		V			MAN WARRANTING MANAGEMENT			
	O TANAH TANA							

DESIGN DESIGNATION

A.D.T. - 1993 = 7500 A.D.T. - 2013 = 9600

> T = 12% V = 60 M.P.H.

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION PLANS FOR PROPOSED

STATE HIGHWAY

dergenen AUS 06 1983

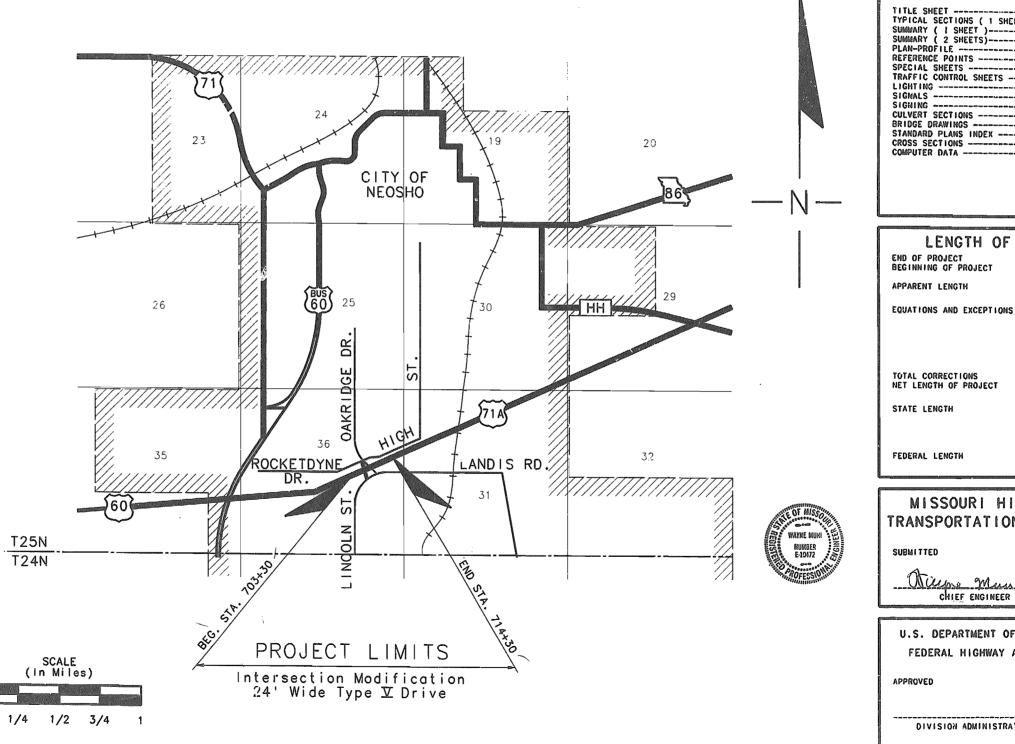
NEWTON COUNTY

EXISTING LIMITED ACCESS HIGHWAY

CONVENTIONAL SIGNS

BUILDINGS AND STRUCTURES GUARD RAIL
CONCRETE RIGHT-OF-WAY MARKER
STEEL RIGHT-OF-WAY MARKER ----------TELEPHONE POWER -----G----WATER EXIST, MANHOLE EXIST. FIRE HYDRANT EXIST. WATER VALVE EXIST. WATER METER EXIST. DROP INLET DITCH BLOCK EXIST. GROUND MOUNTED SIGN EXIST. LIGHT POLE EXIST. H-FRAME POWER POLE CIC) UNDERGROUND TELEPHONE UNDERGROUND POWER

NOTE: DASHED OR OPEN SYMBOLS INDICATES EXISTING FEATURES



COUNTY NEWTON / ROUTE 71 ALT PROJECT STP-71-1(42) JOB NO. J7U0612 -

INDEX OF SHEETS

DESCRIPTION	SHEET "
TITLE SHEET	2 2-A 2-B 3-5 6
SIGNALS SIGNING	

LENGTH OF PROJECT

END OF PROJECT BEGINNING OF PROJECT STA. 714 + 30 / STA. 703 + 30 / APPARENT LENGTH 1100.00 / FEET

NONE /

TOTAL CORRECTIONS NET LENGTH OF PROJECT

0.00 FEET 1100.00 FEET

STATE LENGTH

.0.208-MILES

FEDERAL LENGTH

0.208-MILES

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUBMITTED

Oliveno Mus CHIEF ENGINEER

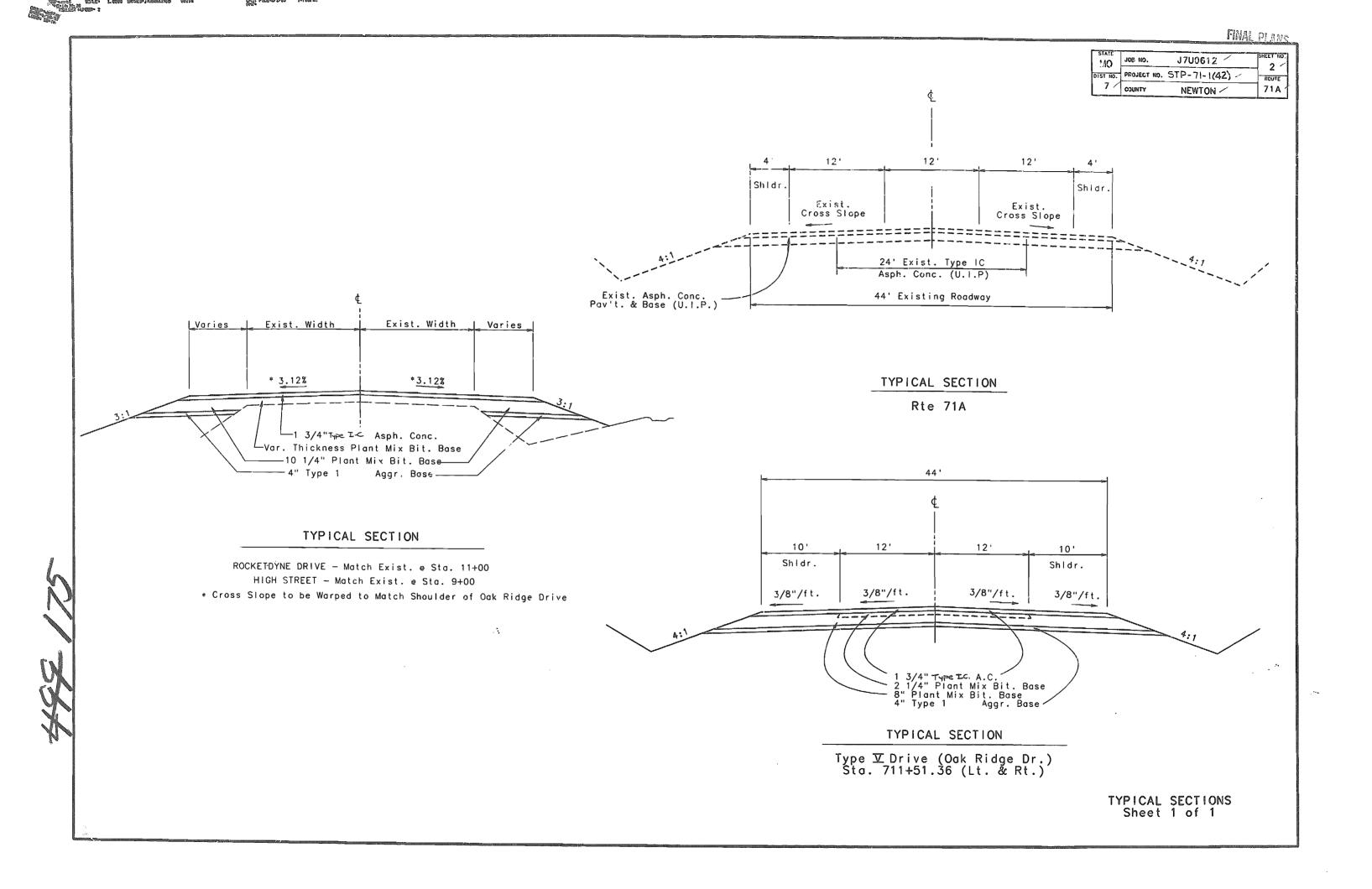
6-18-93

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

APPROVED

DIVISION ADMINISTRATOR

DATE



MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

DESCRIPTION	· WIT	QUANTITY		ITEM	DESCRIPTION	UNIT	QUANTI
					Control Contro	1	1
		the Control of the Co			1	-	-
The second secon		Total Control				 	
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Programmer W. B. Addition of the Control of the Con							
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·			-				
						 	
				-			
						 	
					Accepted: NOVEMBER 29,1993		
					Prepared by: Mina Kimener		
					Resident Engineer: 1597 Dec	Date:	12/20193
The second secon					District Office: Lan Lauren	Date'	12/27/9
					Dietrict Office: Son Lowery Main Office: Sanda D Ber	D-t	1
- Woodland Company					- I all offices suppose of successive	Date	02-10-92
						 	

MO	JUB ND.	J7U0612 /	^
DIST NO.	PROJECT	NO. STP-71-1(42) /	ROUTE
7	COUNTY	NEWFON /	714

		7 / 0	unty	NEW	ren /		71A -
ITEM	DESCRIPTION		__	-UNIT	GRANTITY]	
202-20.10	RESOVAL OF THE ENGINEERIES	- Annual - Annual - Annual - Annual - Annual - Annual - Annual - Annual - Annual - Annual - Annual - Annual -	ī	P B BUM	1/1/		
203-10.00	CLASS A EECAVAMON	-	16	U YD	2,516		
203-60.00	COMPACTING EMPARISHMENT	-1-1-1-1	F	U YD	1,333		
203-70.75	COMPACTING IS CUT			TATION	1.7		•
301-10.11	ASPEALT CEMEST (BITOMISOUS BASE) AC-20		179	ON	118.5		
391-20.00	MINTERAL AGGREGATE (BITIMINOUS BASE)		2/	Oèl	2,767		
304-00.43	TYPE 1 AGGREGATE FOR BASE (6 IN. THICK)		April 1	Q YD	5,732		
390-90.00	Thereary Surfacing		ė	O AD	0		•
403-10.11	ASPEALT CEMENT (ASPEALTIC CONCRETE) AC-20		7	OM	10		
403-10.26	NIMERAL AGGREGATE (ASPEALTIC CONCRETE)		3	*/di	10 -		
407-10.05	TACK COAT		G!	ALLON	350		
601-10.00	PIELD LABORATORIKA	`	Z _E	DIP CUN	1		
608-30.00	CONCRETE MEDIAN STRIP		8	O AD	30.4		
612-10.30	WWARLE BARRICADE		E	ACE .	4 /		
\ \612-90.20	installing give em a brake 4 ft. 1 4 ft.	SIGR	E	ACE			
616-10.05	COMSTRUCTION SIGNS		25	P	290		
616-10.20	CHAMPELIZER (DROM)		1	lCB .	36		
618-10.00	MOBILIZATION		M	ep 6M	1	į.	
619-10.00	PATROENT EDGE TREATMENT		Li	in ez	500		
626-50.01	TYPE 1 PREFERENCE MARRIES TAPE 4 II., SOLI WHITE GUDSTITUTED Thermophstic		120	00 FT	₹2.7		
620-50.03	TIPE 1 PREFORMED MARKING TAPE 4 IN., SOLI INLLOW (substituted Thermoplastic)	מז	10	00 FT	√34.2		
620-54.04	PREFORMED SHORT TERM MARKING TAPE & IN., INTERMITTENT YELLOW		\ 	ILE	V .1		
620-70.05	PAVEMENT STRIPE REMOVAL (TAPE)		10	OO PT	0-		
802-50.00	1 TE C CR TEPE 3 MULCE		Y	CRE	2.0 /		
805-10.00	SEEDING			(2020);	2.0		
806-10.13	STRAW BALE DITCE FEECE		É	NCH .	V3		•
805-10.16	SEDIMENT REMOVAL		T a	J YD	0		
. 806-10.17	TEMPORARY SEEDING AND MULCHING		M	CRE	0		BOTAGE
. 905-10.18	STRAM BALES (FERCE)		1.1	ik ft	352		
. 901-33.00	COMMUIT, 3 IN RIGID STEEL, IN TREME		Ei	m ft	265		_
							718
500	CONTINGENT ITEMS						(620)
501.01	ASPHALT CEMENT AC-ZO I	SMIX.		TON -	28.6		P.A.HB011(820)
501.02	MINERAL AGGREGATE I-CM	UXII V	/	TON .	594		e.
501.03	PAVEMENT STRIPE REMOVAL (A STATE OF THE PARTY OF THE PAR	7	DO FT	36/		
501.04	ASPHALT DENSITY SAMPLE		E	EACH	4/		
	ing. An olds challed, you						

1 000

ITEM

FINAL PLANS MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION REV MAY 1. 89 STATE 2B J09 но. J7U0612 MO DIST NO. PROJECT NO. STP-71-1(42) SUMMARY OF QUANTITIES ROUTE 7/ COUNTY NEWTON 71A SHEST 1 OF 2 PAVEMENT STRIPE REMOVAL (PAINT) CONCRETE MEDIAN STRIP HEET STA. STA. LOC. 100 FT. REMARKS 3 703+30 -- 710+90 RT € 7.30 | RTE. 71A SHEET STA. TO STA. LOC. S.Y. REMARKS 3 703+30 — 708+30 LT € 5.25 / 3 703+30 — 711+70 LT € 840 / 3 703+30 — 712+20 RT € 890 / 3 708-65 — 710+55 RT € 1.90 / 711+20-711+38 28' LT 22.9 / LOW PROFILE ISLAND 711+65-711+75 28' RT 7.5 / LOW PROFILE ISLAND TOTAL 30.4 3 712+50 - 714+50 LT t 1.60 3 712+75 - 714+30 RT. & 1.55 / 3 712+10 - 712+80 RT. € 0.70 3 712+10 - 712+60 LT. & 0.70-CONDUIT 3" RIGID STEEL IN TRENCH TOTAL 100 FR 36.50 -TRENCH USE 36.0 / SHEET STATION LOC. LIN.FT. REMARKS 3 711+51.36 475'LT. 80' INST. ACROSS DAK RIDGE DR. 711+51.36 t 75'RT. \85' TOTAL 165. TYPE 1 PREFORMED MARKING TAPE (THERMOPLASTIC SUBSTITUTED) REMOVAL OF IMPROVEMENTS BEG. END 4 SOLID 4 SOLID STA. LOC. STA. LOC. YELLOW LIN FT WHITE LIN FT REMARKS 703+30 開催せ そ 710490 配信せを 2594・ Rte. 714 712+10 Line 712+80 Line 70' - 25-44 Right & 112+80 Line 70' - 24-40 Right & 4+10 Right & 340' / 4+70 Right & 5+50 Right & 160' / 6+38 Right & 260' / 17848 Right & 768' / 17848 R Oak Ridge Dr. LUMP SUM 1 3 878 CP+017 3 18 18 04 1807 Rte. 71A 200' 712+10 674 € 712+80 6'Rt. € 70' / TOTAL 3424 270' 2.7/100FT USE 34.2/100FT TEMPORARY EROSION CONTROL STRAW BALE DITCH STRAW BALE SHEET CHECK EACH FENCE LIN. FT. PREFORMED SHORT TERM MARKING TAPE SHEET STA. TO STA. LOC. LIN. FT. REMARKS TOTAL 3 352 /

SUMMARY OF QUANTITIES

D-285
REV FEB 26, 1992
MO
DIST NO. PROJECT NO. STP-71-1(42)
7 COUNTY NEWTON SHEET NO.
2B
ROUTE
71A

SHEET 2 OF 2

			1		7	7	ŝ		1			~					
4	SIGN	SIZE	AREA	QTY	TOTAL	017 EL0C	TOTAL RELOC	DESCRIPTION	SIGN	SIZE	AREA	QTY	TOTAL	OTY RELOC	TOTAL RELOC AREA	DESCRIPTION	1 TE NUME 616-10
	į	(INCHES)	(SQ FT)	,		02	OE '			(INCHES)	(SQ FT)	[- ~	<u> </u>	F & ~		616-1
							MADALIA	G SIGNS	W025-3b	30X9						LEFT Plate	616-10
					organization and designation of	,	AAVALIA E IA		W025-3c	33X9						LEFT/CENTER Piate	616-1
-	-146	48X48	16.0	ļ	ļ	↓		TURN (SYMBOL LEFT ARROW)	W025-3d	22X9						LEFT/CENTER Plate	616-1
·	-1Rb	48×48	16.0	+	-	├		TURN (SYMBOL RIGHT ARROW)	W0255	30X12	2.5	ļ				1/2 MILE/1 MILE (PLAQUE)	616-10
·	-2Lb	48X48 48X48	16.0	-	 -	╂	-	CURVE (SYMBOL LEFT ARROW)	W025-6	28X9				L		RAMP/BRIDGE Plate	616-10
: 	-2Rb -3 L b	48X48	16.0	-	\vdash	 	+	CURVE (SYMBOL RIGHT ARROW) REVERSE TURN (SYMBOL LEFT ARROW)	 					REG	ULATOR	Y SIGNS	616-1
·	-3Rb	48X48	16.0	+-	+	1	1	REVERSE TURN (SYMBOL RIGHT ARROW)	R1-1b	48X48	13.25	T	T T				616-1
l I	-4Lb	48X48	16.0	+	 	 	 	REVERSE CURVE (SYMBOL LEFT ARROW)	R1-2a	48X48X48	6.93	 	 			STOP YIELD	616-16
į į	-4Lb2	48X48	16.0	1	 	†	† —	DOUBLE ARROW REVERSE CURVE (SYM LT ARROWS)	R1-3	20X9	1.25	-	 	<u> </u>		4-WAY (PLAQUE)	616-1
: <u></u> -	-4Rb	48×48	16.0	1	1			REVERSE CURVE (SYMBOL RIGHT ARROW)	R1-5	20X9	1.25	1	<u> </u>		<u> </u>	3-WAY (PLAQUE)	616-10
WO1	-4Rb2	48X43	16.0		1			DOUBLE ARROW REVERSE CURVE (SYM RT ARROWS)	R2-1b	36X48	12.00	 	24	_	 	SPEED LIMIT •2 • 45 MPH	616-1
WO1		48X24	8.0			1		HORIZONTAL ARROW (SYMBOL)	R2-5b	36X48	12.00	- -				REDUCED SPEED AHEAD	619-1
	6a	72X36	18.0	-		<u> </u>		HORIZONTAL ARROW (SYMBOL)	R3-16	36X36	9.00					NO RIGHT TURN (SYMBOL)	612-1
WO1		48X24	8.0		 	 		DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	R3-2b	36X36	9.00					NO LEFT TURN (SYMBOL)	612-9
8 	-7a	72X36	18.0		_	-	╄	DOUBLE HEAD HOR: ZONTAL ARROW (SYMBOL)	R3-3a	36X36	9.00					NO TURNS	 ٦
WO1	–გ i–1b	18X24 48X48	16.0	_	+	+	-	CHEVRON (SYMBOL)	R3-4	24X24	4.00		ļ.,			NO U-TURN (SYMBOL)	1
8 -	-1 b -2b	48X48	16.0		+		-	STOP AHEAD YIELD AHEAD	R3-7L	30X30	6.25					LEFT LANE MUST TURN LEFT]
	i-36	48X48	16.0			+	+	SIGNAL AHEAD (SYMBOL)	R3-7R R4-1b	30X30	6.25	ļ	 		<u> </u>	RIGHT LANE MUST TURN RIGHT	」 ├──
r —	3-4b	48X48	16.0		 	1	 	BE PREPARED TO STOP	R4-1b	36X48 36X48	12.00	 	 			DO NOT PASS	⊣ ├──
9	-1Lb	48X48	16.0		┿	+		MERGE (SYMBOL FROM LEFT)	R4-7Lb	36X48	12.00	 	-			PASS WITH CARE	⊣ ├──
3	-1Rb	48X48	16.0		1	1	<u> </u>	MERGE (SYMBOL FROM RIGHT)	R4-7Rb	36X48	12.00	 	-		<u> </u>	KEEP LEFT (HORIZONTAL ARROW)	
W05	j-1a	48X48	16.0		 	T		ROAD NARROWS	R4-17La	36X36	9.00	 			 	KEEP RIGHT (HORIZONTAL ARROW) KEEP LEFT	_{St}
WO5	5-3a	48X48	16.0					ONE LANE BRIDGE	R417Ra	36X36	9.00		-			KEEP RIGHT	``
	6-1b	48X48	16,0					DIVIDED HIGHWAY	R5-1	30X30	6.25	-	†		 	DO NOT ENTER	
R	3-2b	48X48	16.0					DIVIDED HIGHWAY ENDS	R5-1a	36X24	6.00		-		<u> </u>	WRONG WAY	╣
B	3-3b	48X48	16.0			_		TWO WAY TRAFFIC (SYMBOL)	R6-1La	48X18	6.00		1			ONE WAY ARROW (LEFT)	-
B	5-3×	24X18	3.0			↓	-	TWO WAY TRAFFIC (PLAQUE)	R6~1Ra	48X18	6,00					ONE WAY ARROW (RIGHT)	_
S	3-1b 3-2b	48X48	16.0		-		_	BUMP	R6-2La	24X30	5.00	1				ONE WAY (LEFT)	7
WO8		48X48 48X48	16.0	_	-	-		DIP	R6-2Ra	24X30	5.00	// /	\			ONE WAY (RIGHT)	7
B	3-45	48X48	16.0		-		 	PAVEMENT ENDS SOFT SHOULDER	R11-2	48X30	10,00	4 /	40 /			ROAD CLOSED	
8	3-5b	48X48	16.0		+	-	+	SLIPPERY WHEN WET (SYMBOL)	R113	60X30	12.50	ļ	├			ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY	
n —	3-6b	48X48	16.0		1	-		TRUCK CROSSING	R11-4 R12-3b	60X30 36X36	12.50	 -	-		ļ	ROAD CLOSED TO THRU TRAFFIC	
PC	3-6c	48X48	16.0		1	1		TRUCK ENT (INCLUDES WO25-1a PLATE)	S4-40	36X18	9.00	<u> </u>	 -			TO ONCOMING TRAFFIC (PLAQUE)	4
WO8	3-7a	36X36	9.0		$\overline{}$	1		LOOSE GRAVEL	34-40	1 30/10	4.50	J				WHEN FLASHING	
WO8		48X48	16.0	2 /	32		+-	LOW SHOULDER	11					(SUIDE S	SIGNS	
B =	3-9La_	48X48	16.0					UNEVEN PAVEMENT (SYM FOR LT DROPOFF)	G020-1	60X36	15.00	1	T		T	ROAD CONSTRUCTION NEXT XX MILES	⊣
B	3-9Ra	48X48	16.0		<u> </u>			UNEVEN PAVEMENT (SYM FOR RT DROPOFF)	G020-2	60X24	10.00	5 -	50 -	_		END CONSTRUCTION	┥
	9-1R	48X48	16.0	_	-	+-		RIGHT LANE ENDS (INCLUDES WO25-3c PLATE)	MO4-8c	30X15	3.13		1			DETOUR (PLAQUE)	┥
·)-2Ra)-1a	48X48 42Dia	16.0		-	-	-	LANE ENDS MERGE RIGHT (INCLUDES W025-3b PLATE)	MO4-9L	48X36	12.00					DETOUR (LEFT ARROW)	7
E	2-1	24X24	9.6			┥		RAILROAD CROSSING	M04-9R	48X36	12.00					DETOUR (RIGHT ARROW)	7
200	2-2a	48X48	16.0		-	-	+	DOUBLE DOWN ARROW (SYMBOL)	M04-10L	48X18	6.00	<u> </u>				DETOUR (ARROW LEFT)	
8	2-2×	24X18	3.0	_	_	+		LOW CLEARANCE (SYMBOL) LOW CLEARANCE (PLAQUE)	M04-10R	48X18	6.00	 				DETOUR (ARROW RIGHT)	
WO1	2-3a,b	144X24			 	—	_	OVERHEAD LOW CLEARANCE (FEET AND INCHES)	M04-11 M5-1L	24X18 21X15	3.00		 		ļ	DETOUR ENDS	4
WO1	3-1a	24X24	4.0		\mathbf{k}		† 	ADVISORY SPEED (PLAQUE)	M5-1R	21X15	2.19		-		 -	ADVANCE LEFT TURN ARROW	_
8	20-1	48X48	16.0	7 /	112	1	-	ROAD CONST AHEAD	MO 11	21/13	2.15				<u></u>	ADVANCE RIGHT TURN ARROW	
	20-2	48X48	16.0					DETOUR AHEAD (INCLUDES WO25-16 PLATE)	1				B	ALSCE	LLANE(OUS SIGNS	
10	20-3	48X48	16.0					ROAD CLOSED AHEAD (INCLUDES WO25-1c PLATE)		T	1	T	T -				\dashv
	20-4a	48X48	16.0	_		<u> </u>		ONE LANE ROAD AHEAD (INCLUDES WO25-1g PLATE)	1		1		 				-
	20-5	48X48	16.0					RIGHT LANE CLOSED AHEAD (INCL WO25-3d PLATE)			†	†					┪
8	20-6a 20-7b	48X48	16.0					RIGHT LANE CLOSED (INCLUDES WO25-3c PLATE)					1				_
8 —	0-76 0-7x	48X48 24X18	16.0		┿—	+		FLAGGER (SYMBOL)									1
	0-7x	48X48	16.0		32 /	/ -	+	500 FT/1000 FT (PLAQUE)	-								7
8	21–2b	48X48	16.0		32	┥		OPEN TRENCH	-								
2	1-5b	48X48	16.0		 	+-	+	FRESH OIL SHOULDER WORK AHEAD	 			ļ	<u> </u>				
8	21-7	36X36	9.0		1	1	 	SAND BLASTING	┨├───	ļ	ļ	 	ļ	ļ			
WO2	2-1	48X48	16.0	_	1	1		BLASTING ZONE 1000 FT	 		 	 	 				
3	2-2	42X36	10.5					TURN OFF 2-WAY RADIO	1	<u> </u>	 	 	-		ļ		_
	2-3	42X36	10.5					END BLASTING ZONE	1		 		 				_
()	2-5	30X30	6.3					NO PASSING ZONES UNMARKED	616-10.0	5	<u></u>		<u> </u>	_			
	5-1a	26X9						1000 FT/1500 FT Plate	- 1	RUCTION	SIGNS	LATOT	290	r >	\sim		
	5-1b	38X9	4					500 FT/1000 FT Plate	616-10.1		J. 0113	·VIAL	<u></u>			1	
WO2	5-1c	34X9	<u></u>					500 FT/1000 FT Plate	11	-	CATED S	SIGNS	TOTAL	X		·	
															L		

ITEM	SIZE	TOTAL	DESCRIPTION
NUMBER	(INS)	\QTY	
616-10.20	36X18	\36 /	CHANNELIZER (DRUM)
616-10.35	8X24		TYPE I BARRICADE (ONE RAIL)
616-10.36	8X24		TYPE II BARRICADE (TWO RAILS)
616-10.40	48X96		FLASHING ARROW PANEL
616-10.45	18X18		TYPE I OBJECT MARKER
616-10.46	6X12		TYPE II OBJECT MARKER
616-10.47	8X24		TYPE III OBJECT MARKER
616-10.50	8		FLASHING ELECTRIC LIGHT
616-10.51			WARNING LIGHT TYPE A
616-10.52			WARNING LIGHT TYPE B
616-10.53			WARNING LIGHT TYPE C
616-1D.54			STROBE LIGHT
616-10.60			RAISED PAVEMENT MARKER
616-10.70	28		FLEXIBLE DELINEATOR
619-10.00	LIN FT	500	PAVEMENT EDGE TREATMENT
612-10.30	72X144	4	MOVEABLE BARRICADE (THREE RAILS)
612-90.20	48X48	4/	INSTALLING "GIVE EM A BREAK" SIGNS.

*SEE GENERAL SPECIAL PROVISIONS

612PRO-E PLT MON, MAY 24 1993 13:52

N EA PERSON COLE LOSS SPEEDINGSLL LOSS FREENINGSLL LOSS FREENINGSLL

LATT FRE-5/73/83 00:00:19

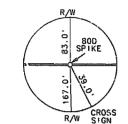
Ciains return

15:23

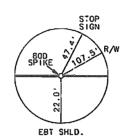
MAY

PLT

1 STSYE		
l MO	JOB NO. J7U0612 /	SWEET NO
DIST NO	PROJECT NO. STP-71-1(42)	_ 6
7 /	COUNTY NEWTON	71A



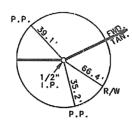
P.T. RTE. 71A 701+23.3



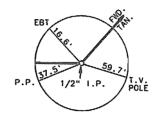
711+51.36 RTE 71A = 5+91.96 OAK RIDGE DR.



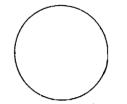
723+00 RTE. 71A



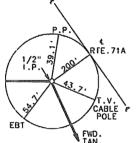
P.I. 4+88.6 DELTA = 21° 26° LT. ROCKETDYNE DR.



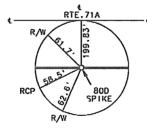
P.I. 1+88.2 DELTA = 46'46' LT. OAK RIDGE DR.



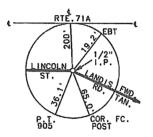
P.I. 4+45.7 DELTA = 24°47' RT. OAK RIDGE DR.



P.I. 2+79.4 DELTA = 68'17' RT. LINCOLN ST.



P.O.T. 7+91.79 & OAK RIDGE DR. = 5+80.3 & LINCOLN ST.



P.I. 8+30.5 OAKRIDGE DR. = P.I. 7+41.6 LANDIS RD. DELTA = 21°34' RT. LINCOLN ST.

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION STANDARD PLANS

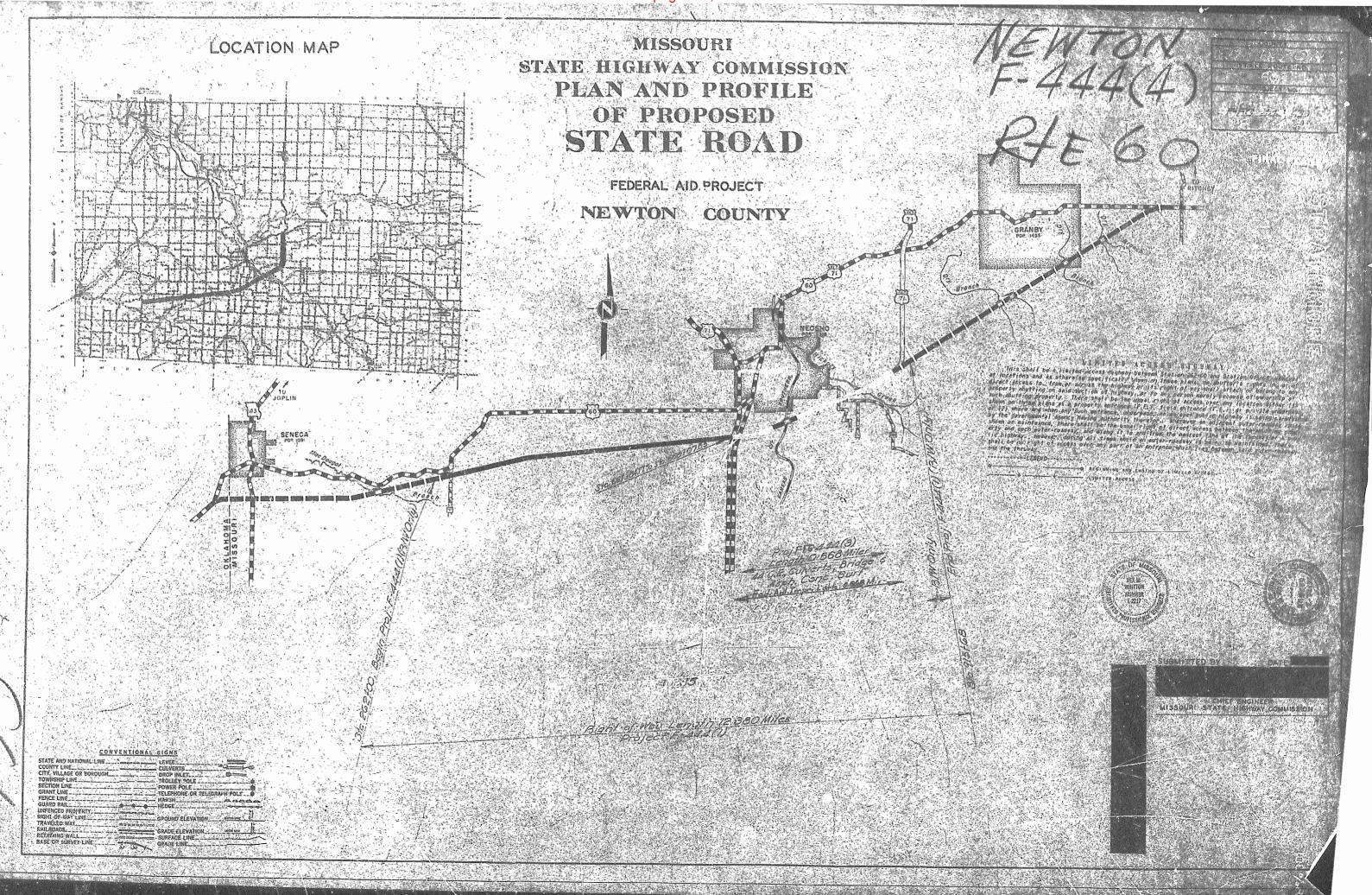
4	NO.	DESCRIPTION	
\checkmark	203.00E	EXCAVATION & EMBANKMENT	
	203.02C	UNDERGRADING	
$ \checkmark $	203,108	TABULATED EARTHWORK & SECTION DATA	
	203.208	SUPERELEVATION SPIRALS & WIDENING (UNDIVIDED)	
	203.218	SUPERELEVATION SPIRALS & WIDENING (DIVIDED)	
	203.35A	MAILBOX TURNOUTS	
	203.40E	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (OTHER THAN 6:1	
		FORESLOPE)	
	203.41E	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (6:1 FORESLOPE)	
	203,50J	TYPICAL CROSS-OVERS (DIVIDED HIGHWAYS)	
L	203.61	DRIVEWAY TYPE I	
<u> </u>	203.62	DRIVEWAY TYPE II	
	203.63	DRIVEWAY TYPE II I	
 _	203,64	DRIVEWAY TYPE IV	
lacksquare	203.65	DRIVEWAY TYPE V	
	204.000	EMBANKMENT CONTROL MEASURING DEVICES	
	502.00N	CONCRETE PAVEMENT & BASE APPURTENANCES (2 SHEETS)	
	502.10F	DOWEL SUPPORTING UNITS	
	503,001	CONCRETE APPROACH SLABS TO BRIDGES (ALSO INCLUDE 502.00)	
<u></u>	504.00	CONCRETE APPROACH PAVEMENT (2 SHEETS)	
	602.00A	RIGHT-OF-WAY & DRAIN MARKERS	
<u> </u>	604.05B	PIPE CULVERT HEADWALLS - TYPE S	
	<u> </u>		
<u> </u>	604.108	HEADWALL-WITH ENERGY DISSIPATOR - 18"	
	604.11B	HEADWALL-WITH ENERGY DISSIPATOR - 24"	
<u> </u>	604.128	HEADWALL-WITH ENERGY DISSIPATOR - 30"	
L	604.138	HEADWALL-WITH ENERGY DISSIPATOR - 36"	
	604.14B	HEADWALL-WITH ENERGY DISSIPATOR - 42"	
<u> </u>	604.15B	HEADWALL-WITH ENERGY DISSIPATOR - 48"	
	10		
<u> </u>	604.20B	DROP INLET - TYPE B	
ļ	604.21B	DROP INLET - TYPE C	
	604.22B	DROP INLET - TYPE D	
	604.23B	DROP INLET - TYPE E	
	604.24B	DROP INLET - TYPE EE	
ļ	604.25C	DROP INLET - TYPE F	
	604.26D	DROP INLET - TYPE G	
<u> </u>	604.27D	DROP INLET - TYPE S (3 SHEETS)	
<u> </u>	604.28E	DROP INLET - TYPE T (ALSO INCLUDE 614.30)	
<u> </u>	604.29C	DROP INLET - TYPE X	
ļ	604.30F	CONCRETE MANHOLES (ALSO INCLUDE 614.30)	
<u> </u>	604.40E	PIPE COLLARS	
	605.10A	CLASS A UNDERDRAINS	
	606.00Y	GUARD RAIL (6 SHEETS)	
	606.22K	BRIDGE ANCHOR SECTION (SAFETY BARRIER CURB ON BRIDGE) (ALSO INCLUDE 606.00)	
	606,23C	BRIDGE ANCHOR SECTION (THRIE BEAM RAIL ON BRIDGE) (ALSO INCLUDE 606.00)	
	606.30E	TERMINAL SECTION (ALSO INCLUDE 606.00)	
<u> </u>	606.40A	GUARD CABLE	
	607.10R	CHAIN LINK FENCE	
<u> </u>			
	607.11B 607.20F	CHAIN LINK FENCE FDR RETAINING WALLS WOVEN WIRE FENCE (ALSO INCLUDE 607.10)	

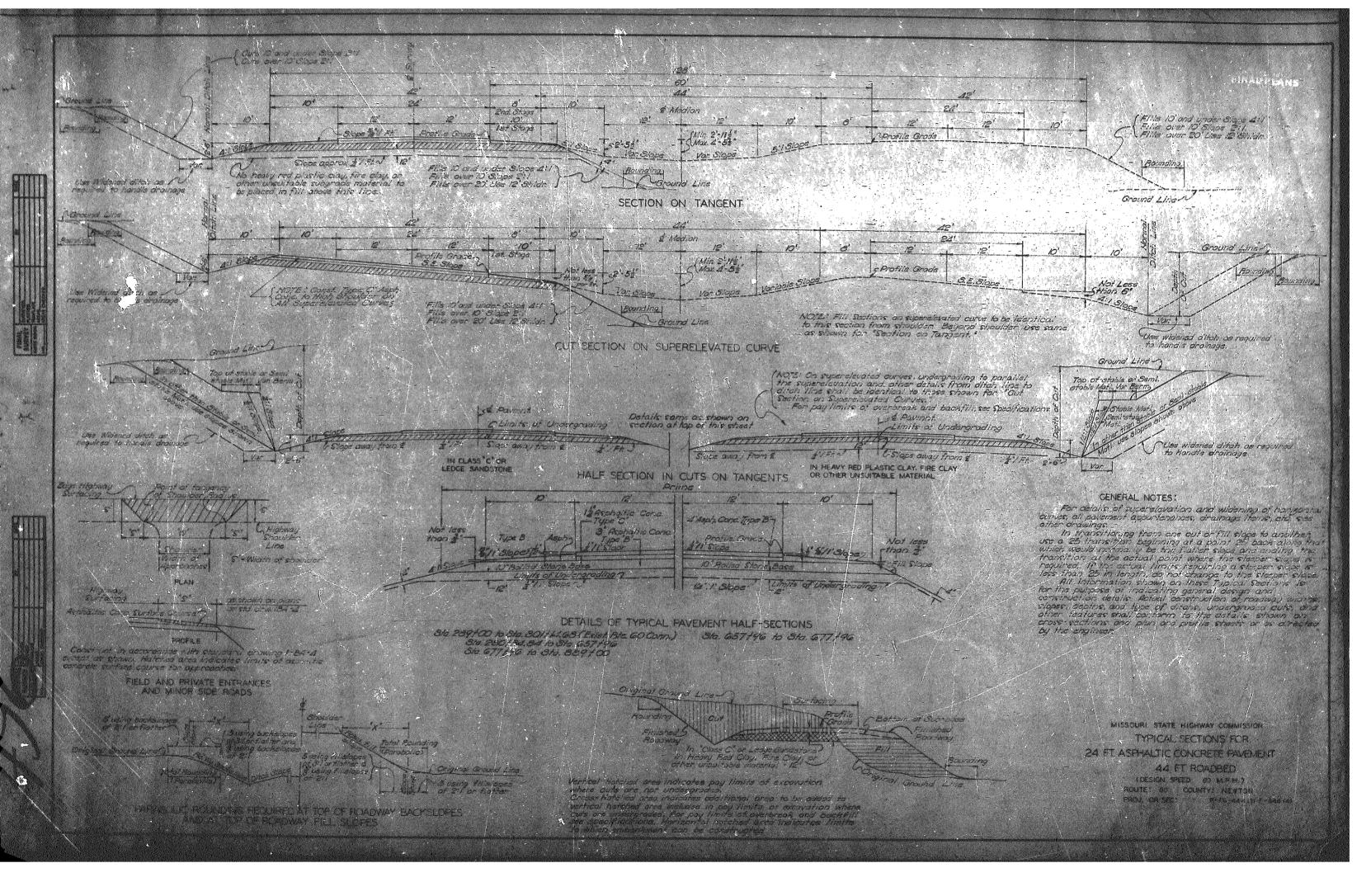
Contraction of the Contraction o	4	NO.	DESCRIPTION
ŗ		608,000	PAVED APPROACHES
Г		608,10G	CONCRETE SIDEWALK & WHEELCHAIR RAMPS
į		608,20D	CONCRETE STEPS *
		609.00G	CONCRETE CURB - CURB & GUTTER - GUTTER
Γ		609,150	PAVED DITCHES *
F	-	609.40E	DRAIN BASIN, SHLD. PAVE. & FILL SL. AT BR. ENDS (2 SHEETS) *
		609.60C	ROCK DITCH LINER *
		609.70C	ROCK LINING FOR CULVERT OUTLETS
		610.20E	BRICK MANHOLES (ALSO INCLUDE 614.30)
		611.60L	CONCRETE SLOPE PROTECTION
Ī		612.10K	BARRICADES AND FLASHER SIGNS
		613.008	PAVEMENT REPAIR
		614.10R	CURB INLETS, GRATES & BEARING PLATES
T		614,30D	MANHOLE FRAMES & COVERS
		615.COA	OFFICE FOR ENGINEER
	V	616.10P	TRAFFIC CONTROL DEVICES (3 SHEETS) (ALSO INCLUDE 903.01) *
		617,00X	CONCRETE TRAFFIC BARRIER (3 SHESTS) *
ı		702.0IF	I6" CONCRETE PILES (APPROVED TYPES) (2 SHEETS)
-		702.028	CAST-IN-PLACE CONCRETE PILES (APPROVED TYPES)
A CONTRACTOR		703.21E	CONCRETE BOX CULVERTS, H20 LOADING (3 SHEETS) (FLARED
			WINGS) (INCL 706.35)
Commence		703,24E	CONCRETE BOX CULVERTS, SKEW DATA (703.30)(INCL 706.35)
		703.25E	CONCRETE BOX CULVERTS, SKEW DATA (703.21)(3 SHTS)
			(FLRD WINGS)(INCL 706.35)
		703.30F	CONCRETE BOX CULVERTS, 4' SPANS & LESS-ALL LOADING
			(INCL 706,35)
		703.35B	CONCRETE BOX CULVERTS, CUTTING DETAILS (STRAIGHT WINGS)
			(INCL 706.35)
		703.36A	CONCRETE BOX CULVERTS, CUTTING DETAILS (FLARED WINGS)
			(INCL 706.35)
L		703,50H	CONCRETE DOUBLE BOX STRUCTURE-SQUARE (INCL 706,35) .
l		703.51G	CONCRETE DOUBLE BOX STRUCTURE-SKEWED (INCL 706.35)
		703.52D	CONCRETE DOUBLE BOX STRUCTURE-CUT SECTIONS (INCL 706.35)
		703.54E	DOUBLE BOX STRUCTURE REINFORCEMENT-H20 OR HS20 LOADING
l			(8 SHEETS)
-		703.55E	CONCRETE DOUBLE BOX STRUCTURE (FLARED WINGS) SQUARE
		<u> </u>	(INCL 706.35)
ll		703.56E	CONCRETE DOUBLE BOX STRUCTURE (FLARED WINGS) SKEWED
-			(INCL 706,35)
▎┟		703,600	CONCRETE BOX STRUCTURE-PIPE INLET
l		703.70D	CONCRETE TRIPLE BOX STRUCTURE-SQUARE (2 SHEETS)
I		707 715	(INCL 706,35)
-		703,7ID	CONCRETE TRIPLE BOX STRUCTURE-SKEWED (2 SHEETS)
 -		707 700	(INCL 706,35)
-		703.72D	CONCRETE TRIPLE BOX STRUCTURE-(FLARED WINGS)(SQUARE)
l -		707 770	(2 SHEETS) (INCL 706,35)
lŀ		703.73D	CONCRETE TRIPLE BOX STRUCTURE-(FLARED WINGS)(SKEWED)
F		703.74D	(2 SHEETS) (INCL 706,35)
lŀ		703.740	CONCRETE TRIPLE BOX STRUCTURE-CUT SECTIONS (INCL
ŀ		703.76B	706.35)
		703.700	CONCRETE TRIPLE BOX STRUCTURE REINFORCEMENT-H20 OR HS20 LOADING (5 SHEETS)
lŀ		706.30E	REINFORCING BAR SUPPORTS
ŀ		706.35E	BAR SUPPORTS FOR CONCRETE REINFORCEMENT
ŀ		712.40E	
lŀ		725.31C	STEEL DAMS FOR BRIDGES (6" CHANNEL)
ŀ		726.30C	METAL CURTAIN WALL AND METAL INLETS CULVERT INSTALLATION METHODS
1 h		731.005	PRECAST MANHOLES (ALSO INCL 614.30)
1 h		731.10K	PRECAST DROP INLETS (4 SHTS)(ALSO INCL 614.30 & 614.10)
1 h		75.,,,,,,,	THE THE INC. IN CHICATURED INC. 014,00 & 014,10)
		 	
a L	production in the last	Annual Control of the	

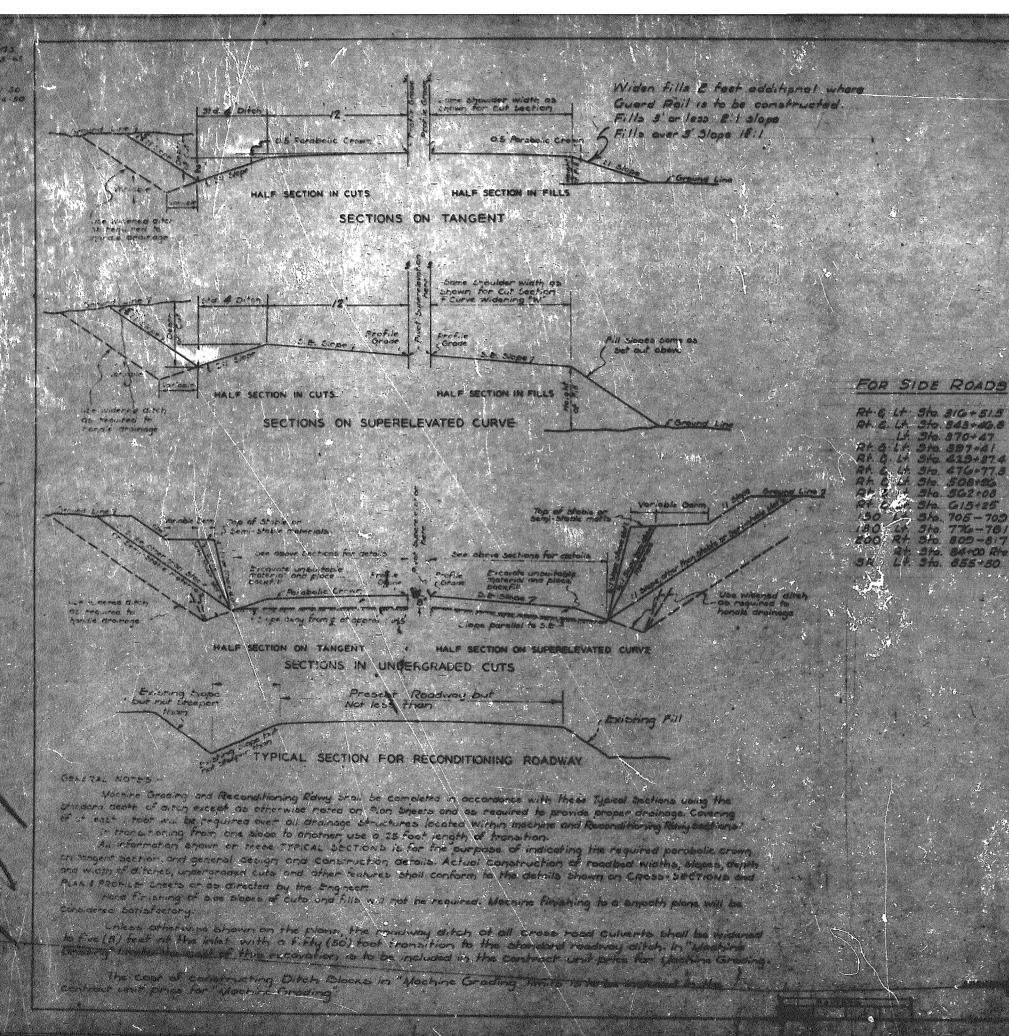
4/	NO.	DESCRIPTION	
	732.00L	FLARED END SECTION (2 SHEETS)	
	732.10	SAFETY SLOPE END SECTIONS (2 SHEETS)	
	806.02A	STAPLE PLACEMENT FOR PLASTIC METTING	嵌
-	000,02K	STAFEE PLACEMENT FOR PLASTIC NETTING	
		HIGHWAY LIGHTING	
	901.00P	POLES & APPURTENANCES-30' (3 SHEETS)	
	901.010	POLES & APPURTENANCES-45' (3 SHEETS)	
	901.05A	CONTROL PANEL CABINET DETAILS (2 SHEETS) (SEE NOTE)	
	901.12C	POLE MOUNT CONT STA-SECONDARY SERV-480 V MULTI CIR (NOT	
		METERED)	
	901.15E	POLE MOUNT CONT STA-SEC SERV-120,240, & 480 V MULTI CIR	
	901.160	POLE MOUNT CONT STA-SEC SERV-460 V MULTI CIR (METERED)	_
	931.16D	POLE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR	
	901,190	POLE MOUNT CONT STA-SEC SERV-240 V MULTI CIR (NOT	
		METERED)	-
	901.20D	POLE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR (SIG	
		METERED)	
	901.22E	POLE MOUNT CONT STA-SEC SERV-120/240 & 480 V MULTI CIR	
		(BOTH METERED)	_
	901.23E	POLE MOUNT CONT STA-SEC SERV-240 V MULTI CIR (METERED)	
	901.24D	POLE MOUNT CONT STA-SEC SERV-240 V MULTI CIR (LIGHTS &	
		SIGNALS-BOTH METERED)	
	901,25D	BASE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR	
		NOTE: ALSO INCLUDE 901.05 WITH 901.12 THROUGH 901.25 EXCEPT 901.18	
	200 005	TRAFFIC SIGNALS	
$\sqrt{}$	902.00F	SIGNAL HEADS, LENSES AND MOUNTING	
	902,10J 902,15D	PULL BOXES, CONTROLLERS, COND LOCATION	
	902.13B	POWER SUPPLY ASSEMBLY TELEPHONE INTERCONNECT	
	902.21B	CONCRETE BASES	
	902.40J	TUBULAR STEEL POST	*
	902.50F	DETECTORS	
	902.60F	SPAN WIRE DETAILS-STEEL POST	
	902,70D	SPAN WIRE DETAILS-WOOD POLE	
	902.80A	TRAFFIC SIGNAL SYMBOLS	
		HIGHWAY SIGNING	
./	903.0IC	ALPHABETS (2 SHEETS)	
v			
<u>v</u>	903.02Y	HIGHWAY SIGNING (7 SHEETS)	
	903.02Y 903.03AP	HIGHWAY SIGNING (7 SHEETS) SIGN MOUNTING DETAILS (5 SHEETS)	
			
	903.03AP	SIGN MOUNTING DETAILS (5 SHEETS)	
	903.03AP 903.04D	SIGN MOUNTING DETAILS (5 SHEETS) WEIGH STATION SIGNING	
	903.03AP 903.04D 903.05C	SIGN MOUNTING DETAILS (5 SHEETS) WEIGH STATION SIGNING TUBULAR SPAN SUPPORT-ONE TUBE, TYPE S TUBULAR SPAN SUPPORT-TWO TUBE, TYPE S TUBULAR CANTILEVER SUPPORTS, TYPE C	
	903.03AP 903.04D 903.05C 903.06C 903.07C 903.08C	SIGN MOUNTING DETAILS (5 SHEETS) WEIGH STATION SIGNING TUBULAR SPAN SUPPORT-ONE TUBE, TYPE S TUBULAR SPAN SUPPORT-TWO TUBE, TYPE S TUBULAR CANTILEVER SUPPORTS, TYPE C TUBULAR BUTTERFLY SUPPORTS, TYPE B	
	903.03AP 903.04D 903.05C 903.06C 903.07C 903.08C 903.09D	SIGN MOUNTING DETAILS (5 SHEETS) WEIGH STATION SIGNING TUBULAR SPAN SUPPORT-ONE TUBE, TYPE S TUBULAR SPAN SUPPORT-TWO TUBE, TYPE S TUBULAR CANTILEVER SUPPORTS, TYPE C TUBULAR BUTTERFLY SUPPORTS, TYPE B LIGHTING SUPPORT BRACKET	*
	903.03AP 903.04D 903.05C 903.06C 903.07C 903.08C 903.09D 903.10T	SIGN MOUNTING DETAILS (5 SHEETS) WEIGH STATION SIGNING TUBULAR SPAN SUPPORT-ONE TUBE, TYPE S TUBULAR SPAN SUPPORT-TWO TUBE, TYPE S TUBULAR CANTILEVER SUPPORTS, TYPE C TUBULAR BUTTERFLY SUPPORTS, TYPE B LIGHTING SUPPORT BRACKET SIGN TRUSSES-OVERHEAD ALUMINUM (8 SHEETS)(INCL 903.03)	*
	903.03AP 903.04D 903.05C 903.06C 903.07C 903.08C 903.09D	SIGN MOUNTING DETAILS (5 SHEETS) WEIGH STATION SIGNING TUBULAR SPAN SUPPORT-ONE TUBE, TYPE S TUBULAR SPAN SUPPORT-TWO TUBE, TYPE S TUBULAR CANTILEVER SUPPORTS, TYPE C TUBULAR BUTTERFLY SUPPORTS, TYPE B LIGHTING SUPPORT BRACKET SIGN TRUSSES-OVERHEAD ALUMINUM (8 SHEETS) (INCL 903.03) SIGN TRUSSES-BUTTERFLY & CANTILEVER-STEEL (7 SHEETS)	*
	903.03AP 903.04D 903.05C 903.06C 903.07C 903.08C 903.09D 903.10T	SIGN MOUNTING DETAILS (5 SHEETS) WEIGH STATION SIGNING TUBULAR SPAN SUPPORT-ONE TUBE, TYPE S TUBULAR SPAN SUPPORT-TWO TUBE, TYPE S TUBULAR CANTILEVER SUPPORTS, TYPE C TUBULAR BUTTERFLY SUPPORTS, TYPE B LIGHTING SUPPORT BRACKET SIGN TRUSSES-OVERHEAD ALUMINUM (8 SHEETS)(INCL 903.03)	*

NOTES: PLANS FOR THIS PROJECT WERE DEVELOPED USING DRAWINGS FROM THIS INDEX

* REVISED OR NEW SINCE JAN. 1, 1992.







SCHESS OF WIDENING AND SUPERELEVATION TRANSITION FINAL PLANS

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MISOURI STATE MCHMAY COMMISSION
TYPICAL SECTIONS

ALFE SPACE EARTH
FOR
SUPPLEMENTARY ROADS

LOCATION FROM BOOTE OF MOREWEASTERLY TOWNSON GROVEY

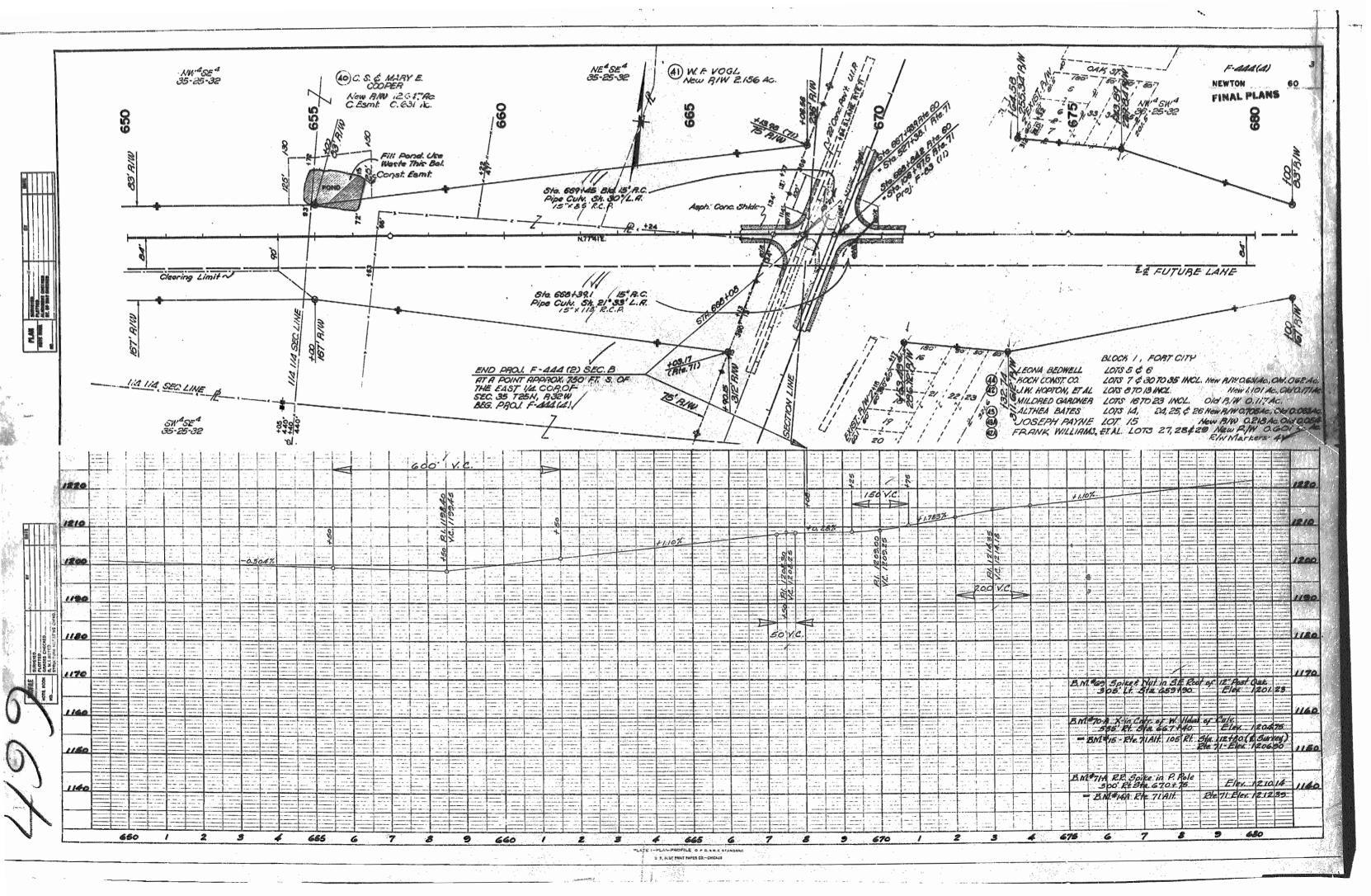
MISSOURI STATE HIGHWAY COMMISSION

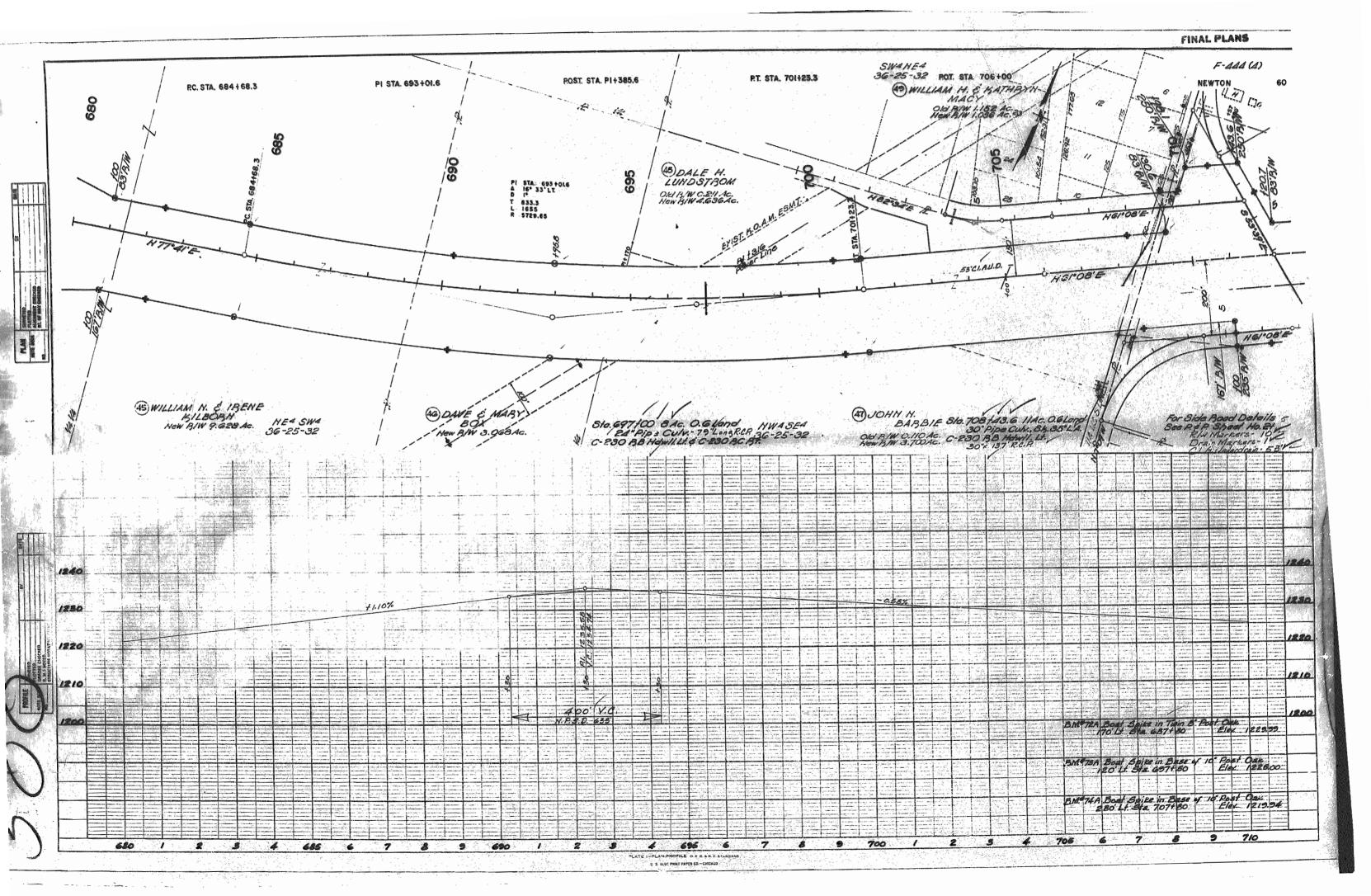
SUMMARY OF QUANTITIE

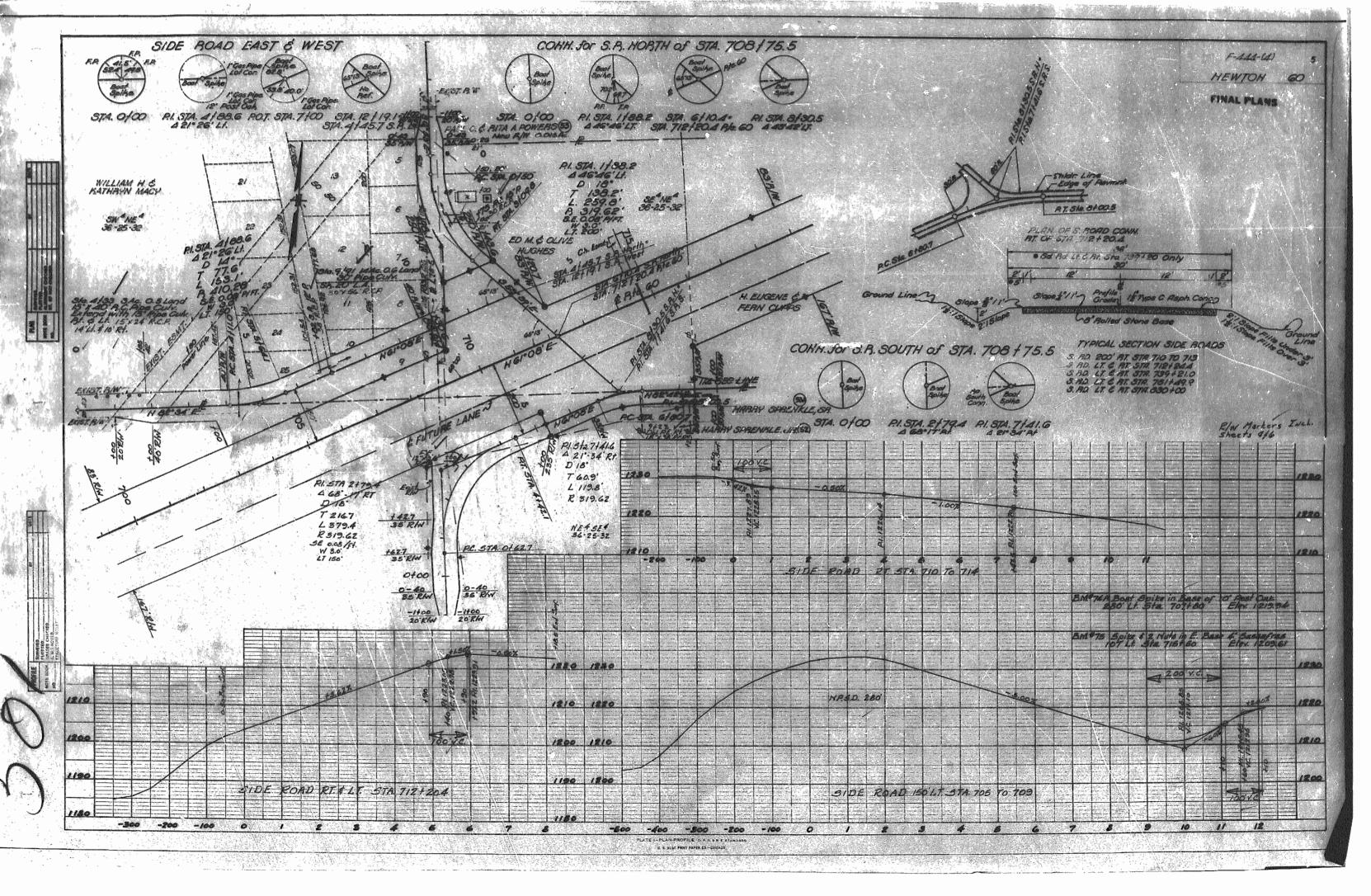
FINAL PLANS S MO. F.444(6) 2:4 84

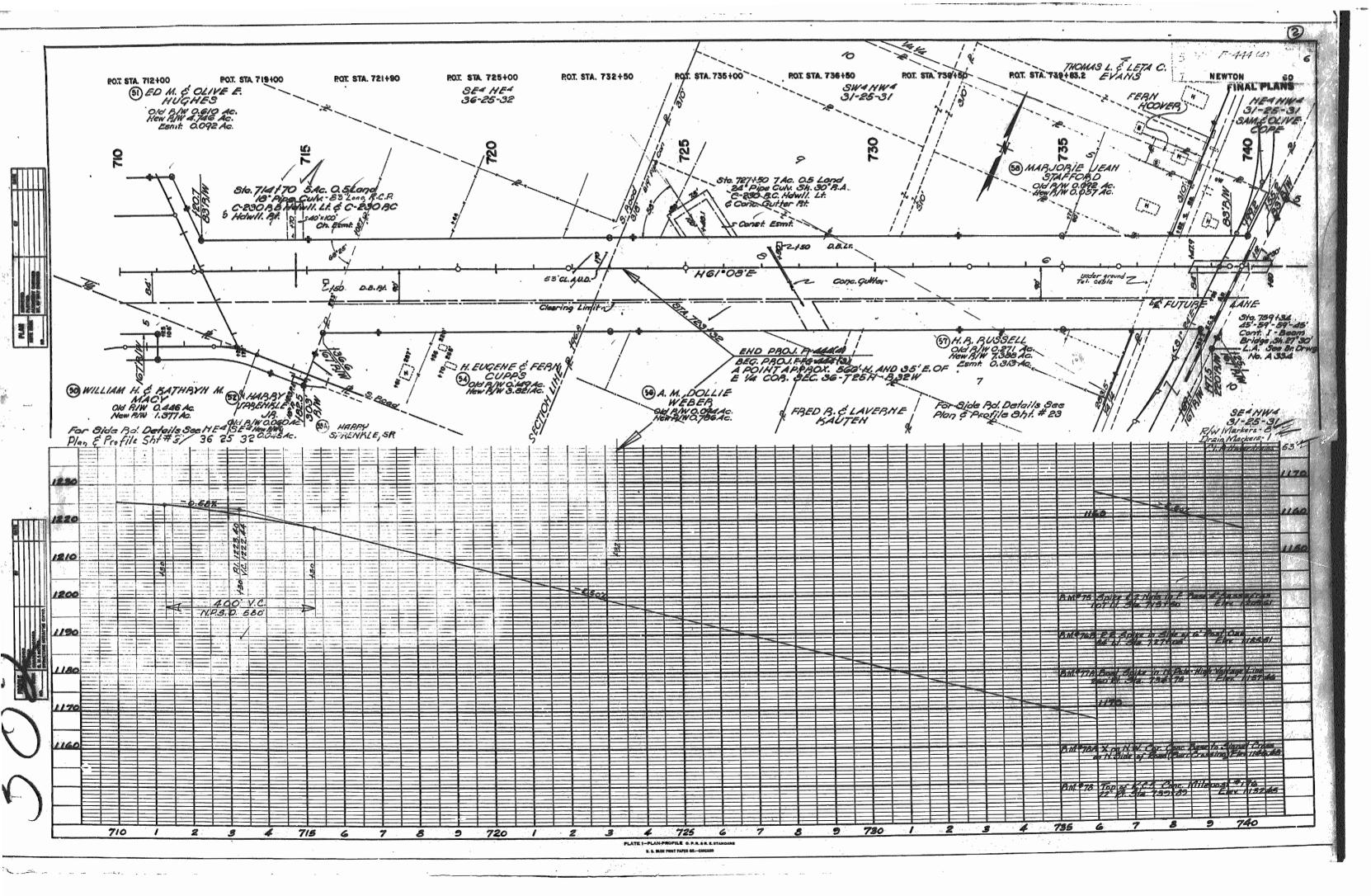
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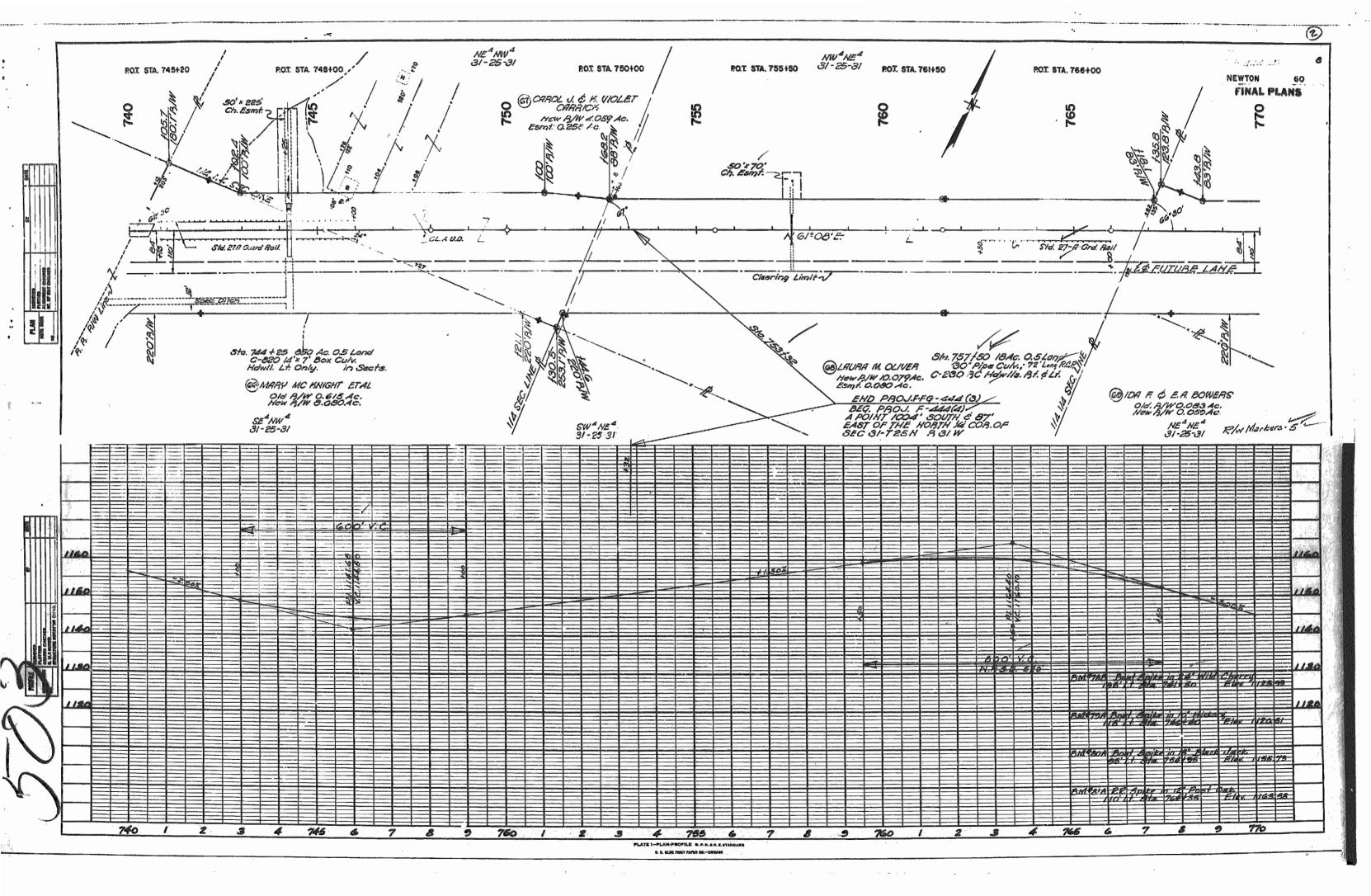
	TYPE GRADED EARTH, CULVERTS, BRIDGE & 28 ASPHALTIC COME. PAVENERT SXCAVATION	SUMMARY OF QUANTI	TIES	7 NEWTON - 40
	Shating Class A. Class C. Come Caf Come to Orectage) Remarks	The second secon	LENGTH OF PROJECT TIES NO.	GENERAL SUMMARY DESCRIPTION UNIT TOTALLIBRE TO LIKETS
	19140 1179 1864 875 1 217180 28197 1 8808 8190 1 723182 33840 721 1100 1		Baginning of Project Station Gastinian (1-6) Apparent Length 22022.00 Feet 1-0	Cast A Escavation Acre 179 Character CY 618966
	755192 Proj. F. P. 444(2) 776100 35496 7 596 7 7409 7 1656 7 4853 1 Ind Owlends 2 7 796119 44545 7 182 7 2465 1890 7		Proj. F-FG-644(3). Sh. 723/22 & St. 723/22 - 3000.00	Taxa C. Excavation C.Y. 10094 Taxa 3 Excavation for Structures C.Y. 8188 conpacting Embanaments C.Y. 816058
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	Shook No. Clearing Grubbing CLAUD. You Mark Dr. Hore Fortstown.	2 C 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8360 69 7.8.7 2:1 Built in Sections, (Mind LA) Count El 18.6 1 8366 79 8:6:5 16:1 2 2 2 4 6 7 18.6 8	6 " " " " " " " " " " " " " " " " " " "
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-	16 1181 886 818' 10 6 61 61 181 181 181 181 181 181 181 181	91/ 1/2	CESORE 640 - ASS COLA 18-K-	Metal Arch Colorets (Tupe 8.2) LF 88
	707ALS 4188 1884 800 76 16 80.58 ALDESS BAY 876 AN 179 AN 18965	229 26.572	5.200 ED 130 100 - 25'511 - 26'A' C	Reinforcing Steel Lass A. Type 1 Underdrains L.F. 800 Guard Reil (Type A) LE. 1876 Barricades Each 0
	CONCRETE CASIMA FOR WATER CASIMA Shation Lin Ft. CLB Reing CLSEN, Remarks 7814101, 3801, 99.07, 18024 1822 10 Water Water 83312201, 279 1, 82.80 12510 1, 8817 1, 12 Water Main	178 278 200 211 507 505	28.78 2028	Peach of Way Markers Each 76 Prain Markers Each 18 Removal of (10) Exist Structo (Cutis) Lisure 1
	824574 272 44.24 110.25 12.22 12 Water Main	on booking Std. Size D CIB	Reins Case Faton Remarks 87.4	Manhole Frame & Cause (5) Each & Forbilising and Mulahing Acre Mass
	PROCE BLANKER OFFICER ANDE		I lost Charles for a Car Pine 1-BATA	10" ROLLED STONE BASS 100 Gal 1060'
	Station Placing Grantist Remorts Attitut Str. 407 V Bills I Res Colones from Blick Fee. Station Type Side 12 8464000 938 V 838 V 838 V 81 No. 12	INTRANCES & RIDE ROAD P	B.T.MA BOMA LOCAL CIBER ROMECKS	Aggregate Spreading Shaping & Compacting (6) Mile 1.64 Spreading Shaping & Compacting (10) Mile 2.68
	TOTALS 786/ 746/ 400/ 400/ 50 H/ 40		IT SELAN TO SEE SECOLUS SCATI	Primer (MC-0) Type B. Asphaltic Concrete Ten 14448
	Station to Station Side Type Linett Remarks 3400 F. U. 24 Text and Text A 850 Fill Over 26 912 PRINCES			SEAL COAT (SHOULDERS)
	Section Section Lt. A 1 255 - " TIESEN AR. LL. Section Section B. A 185 - " TIESEN AR. LL. STREET STREET LL A 185 - " TIME DE SER BOLL.	304	sissela - 10A-CV	Guer Material (61-117 Gellea) Too 1911 ROADWAY CONTINGENT TEMS
2	TOTAL 1375 STORY S	187	2 2/2/2	Test samples higheltic Conc. Each 30. Placing of State Oward Pipe (15 PCP) Lt. 88
	BARRICADES 111500 PE R 2	2 22	6 365 & LA 2:16 Bend Concentioned	81998 STA 868486 (Pera Ma 8-883)
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	04:00 SE B	27	Laurel in Phi 60 d lab 58-A	Reinforceing Steel Like 65790 1
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ΛÌ	866-868 PE 160 LH 868-660 SELL A 24107 PE 14 P	28		A CANADA
. `\	Plasing 28 State owned Pine (187) VOTALS		10 1 Comment	An fine of the contract of the
	Present By Col. Present Control Control	166 2 18 18 18 18	10 10 100 100 1	The state of the s

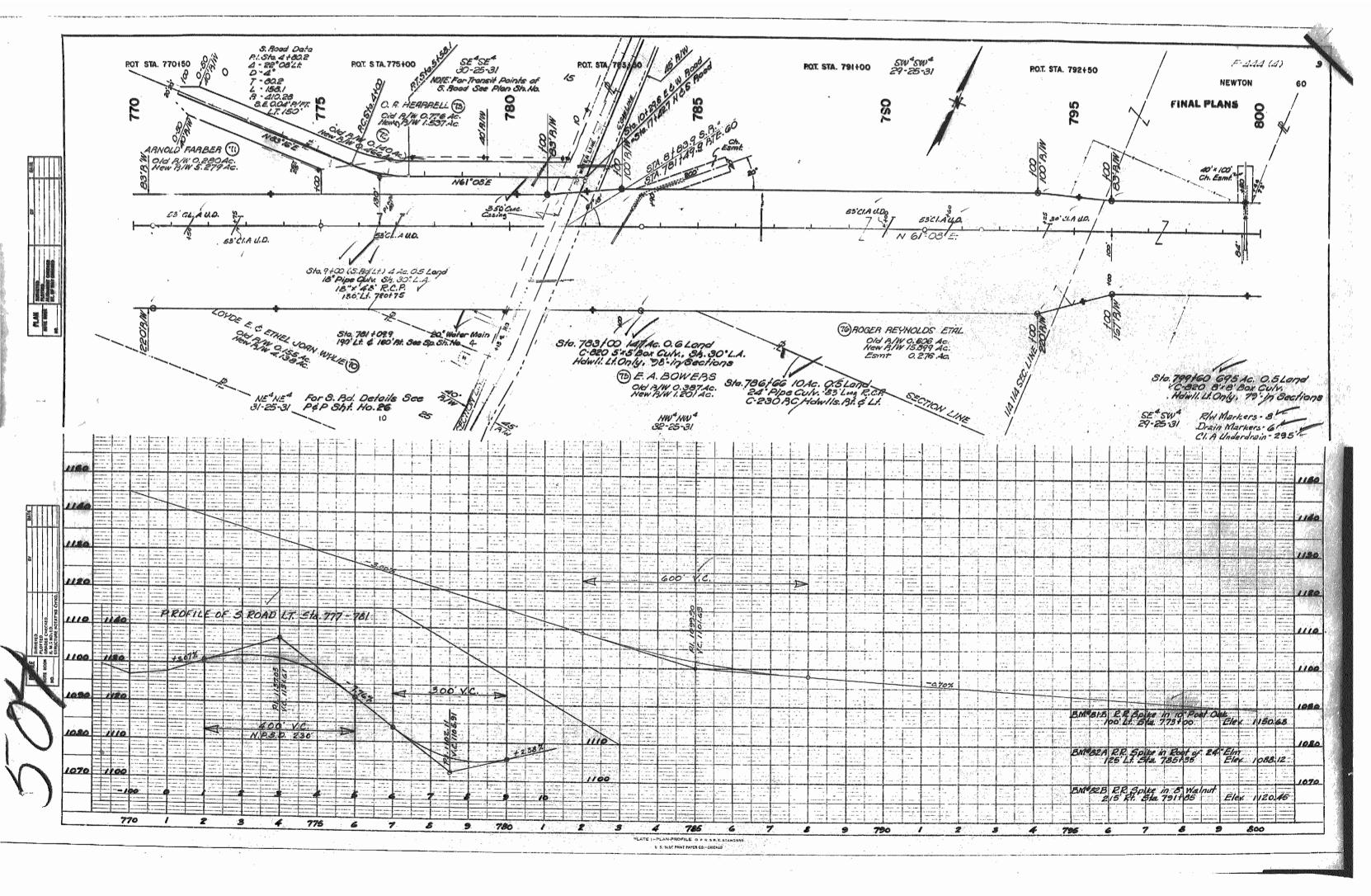


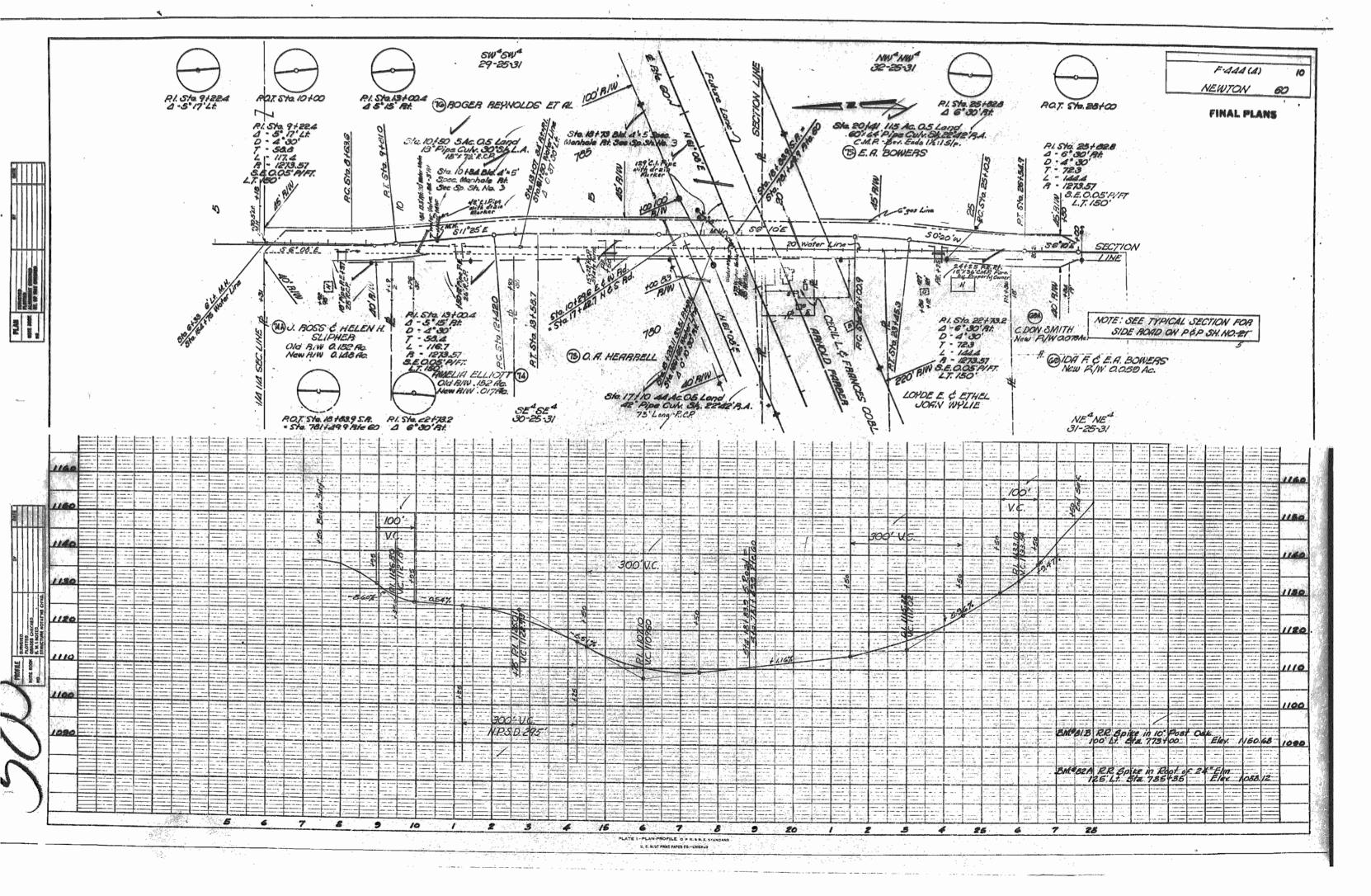


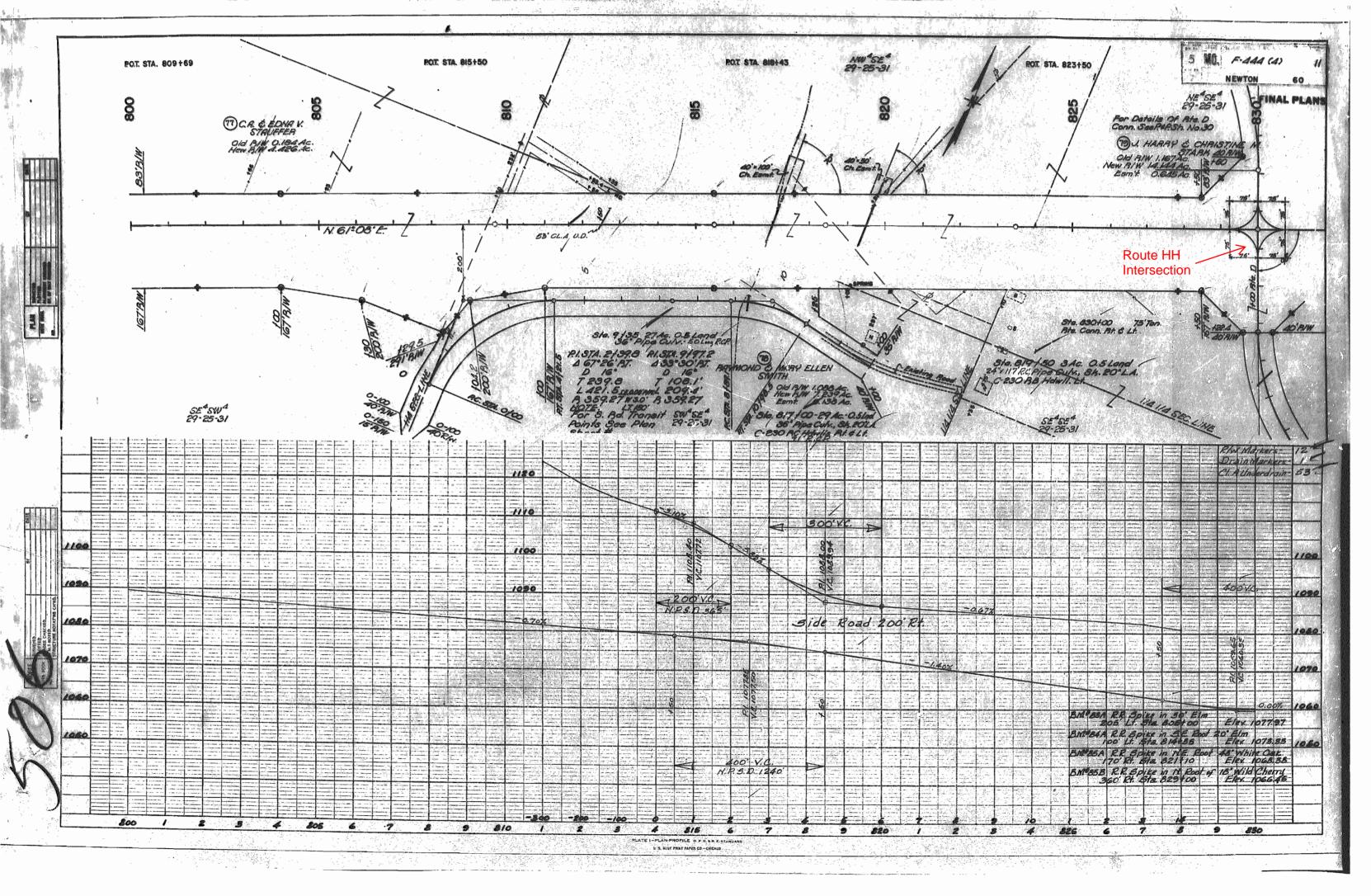


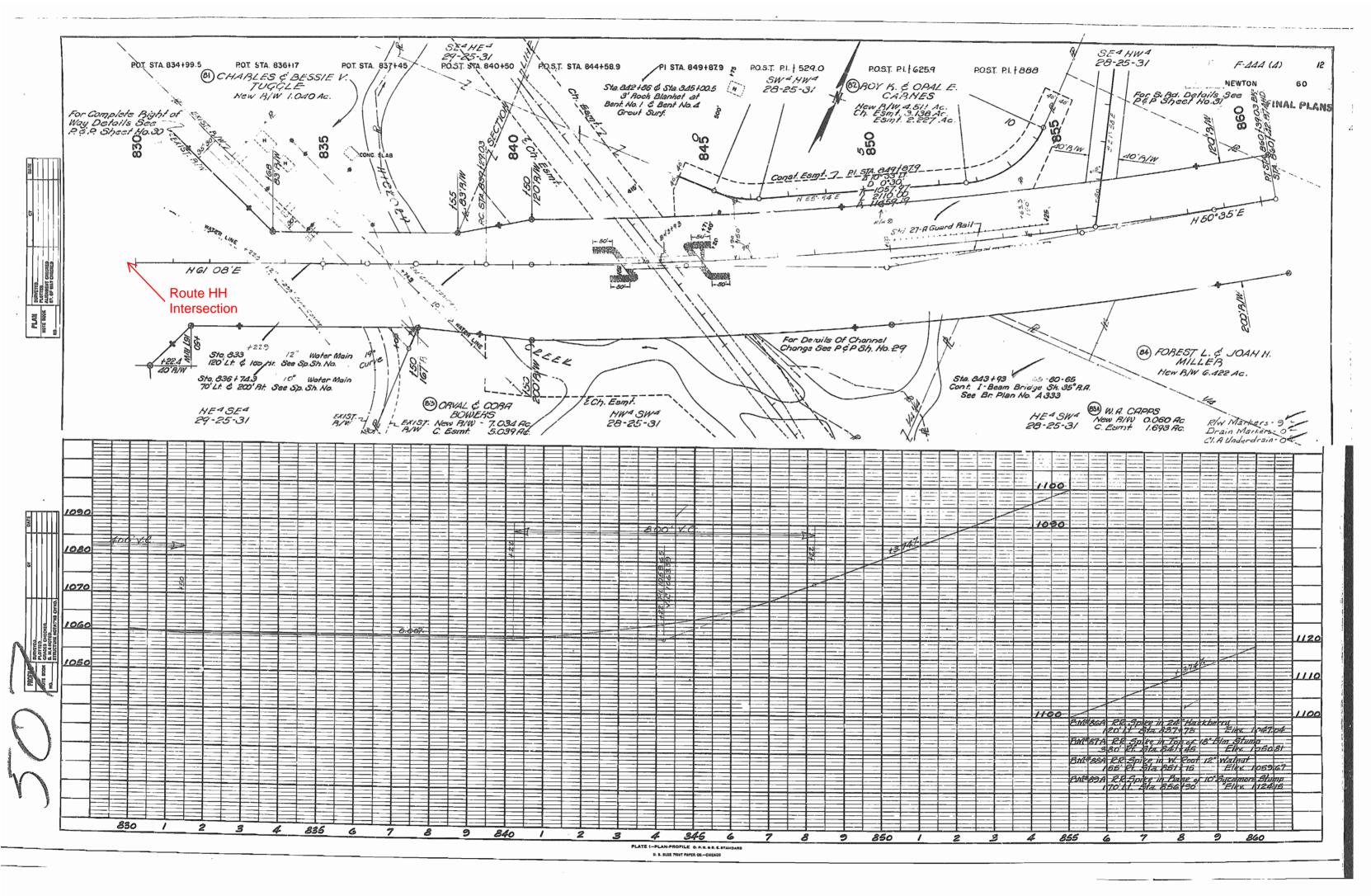


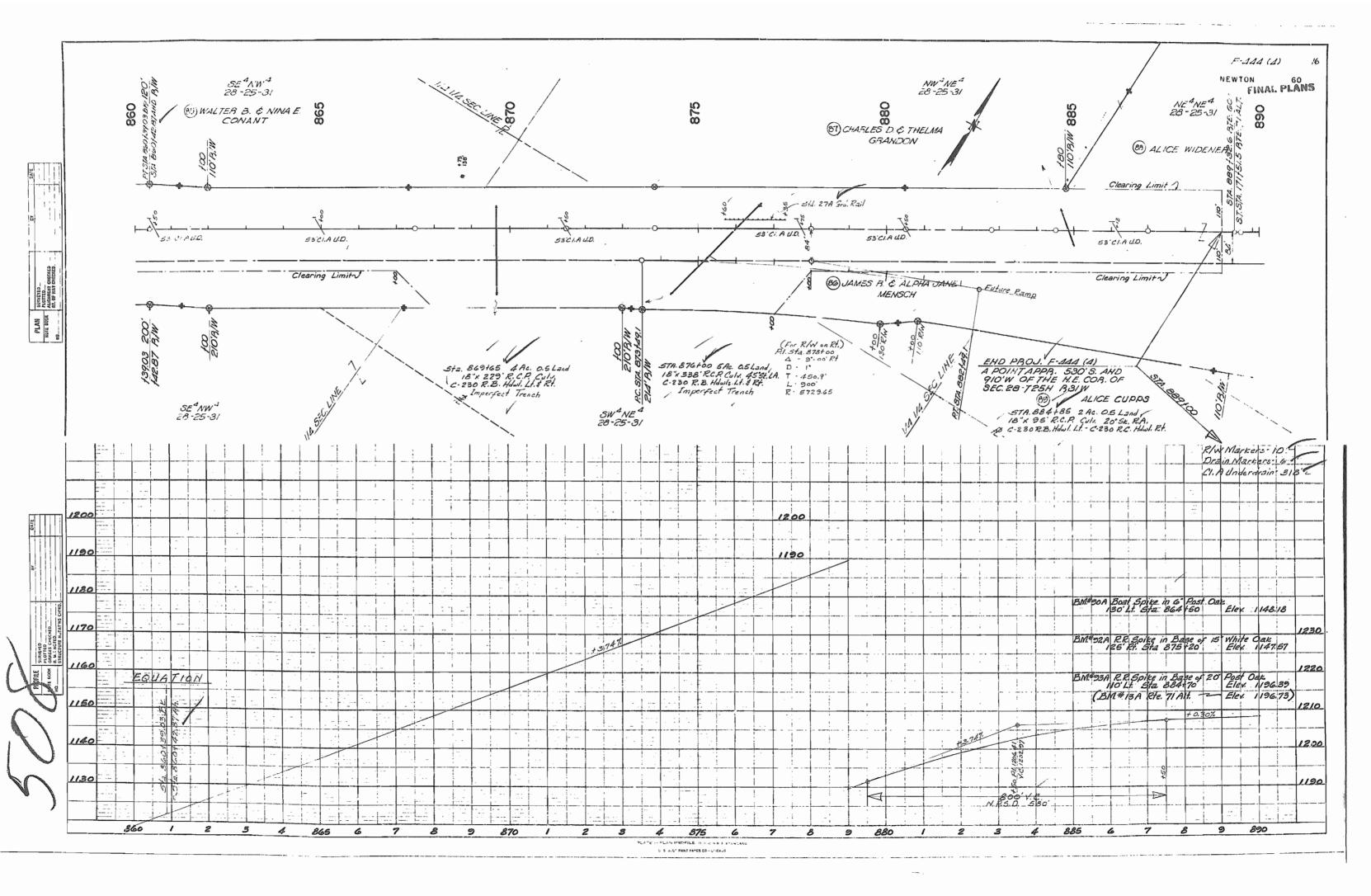


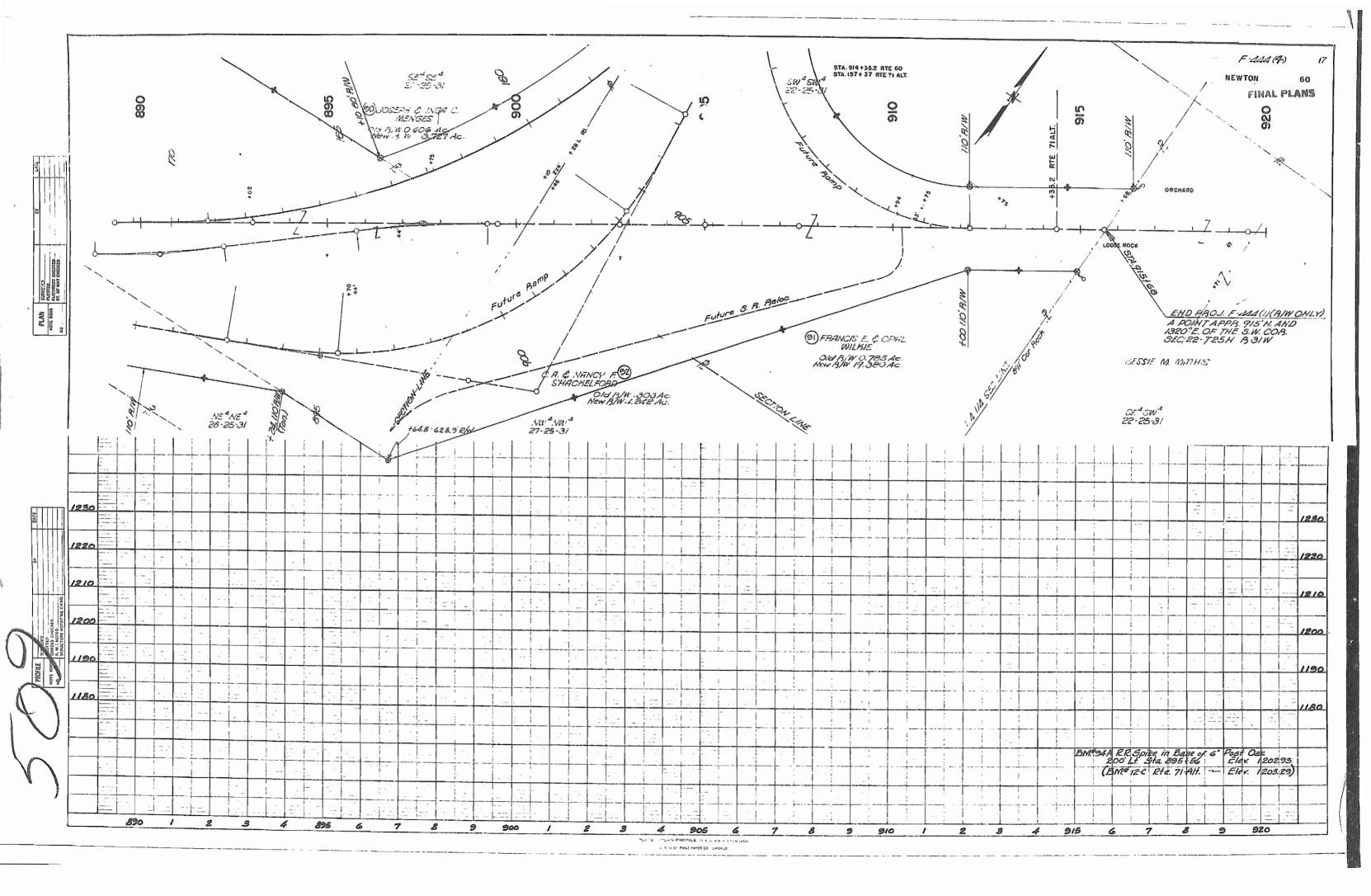


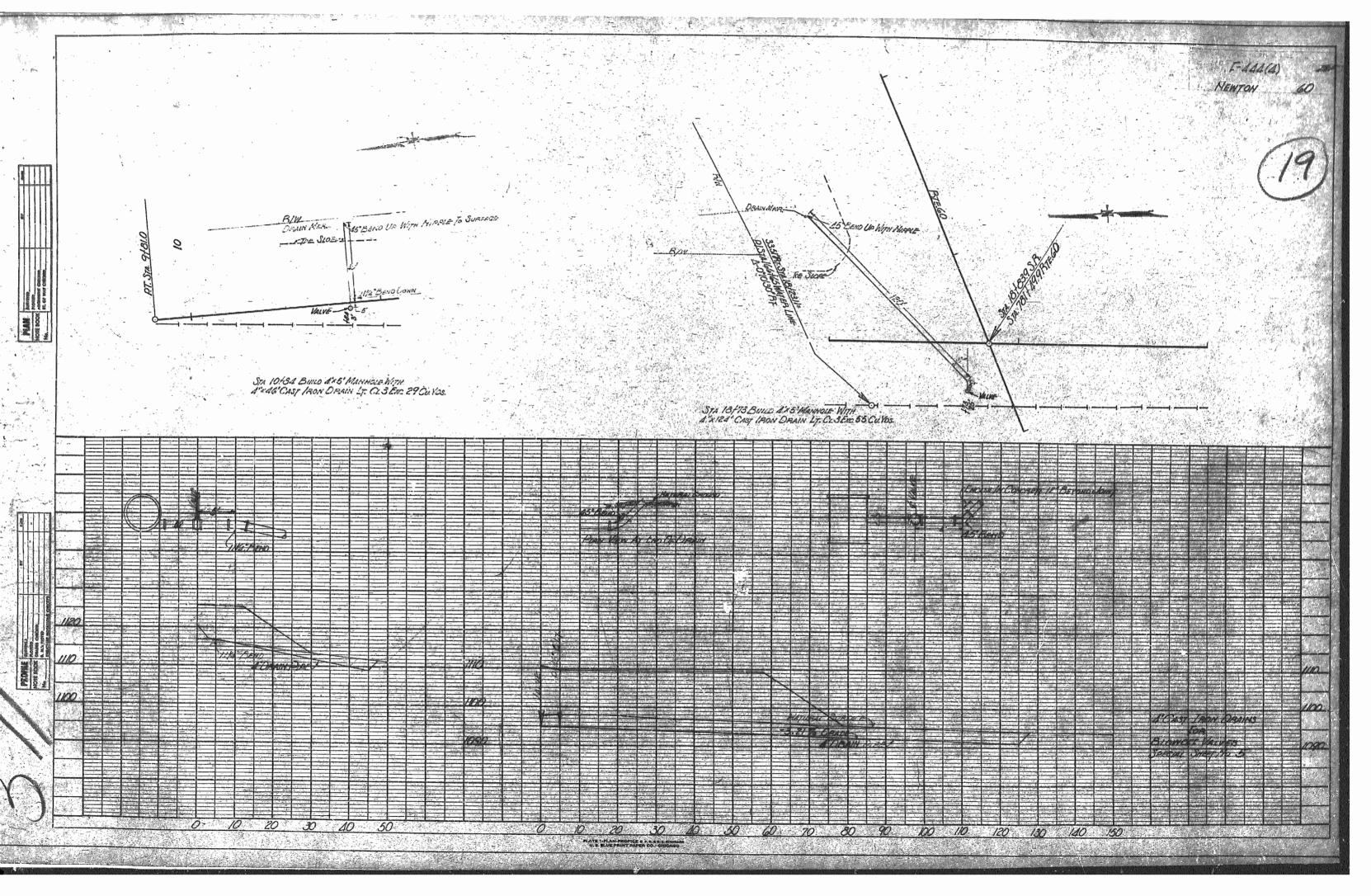


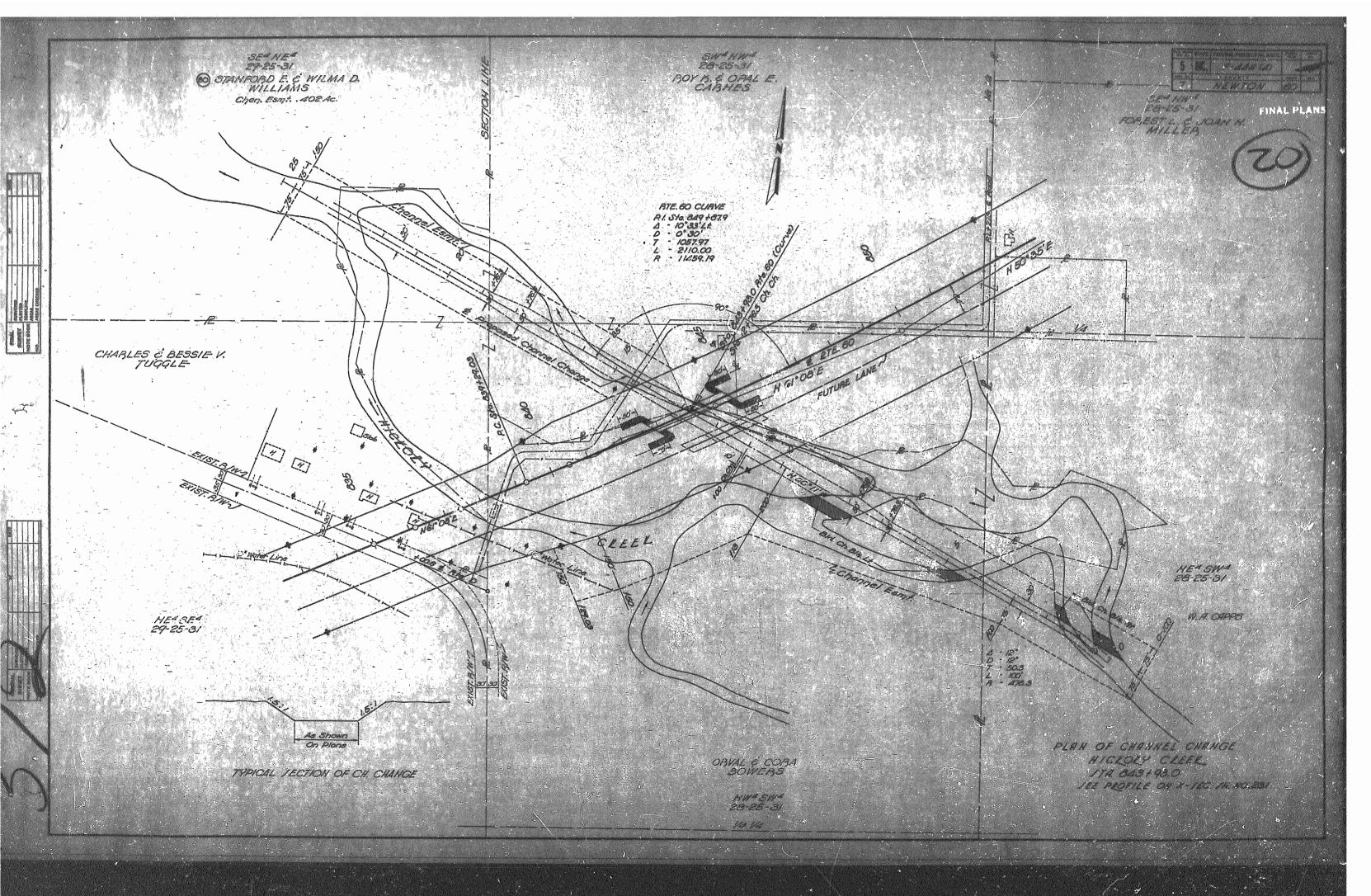


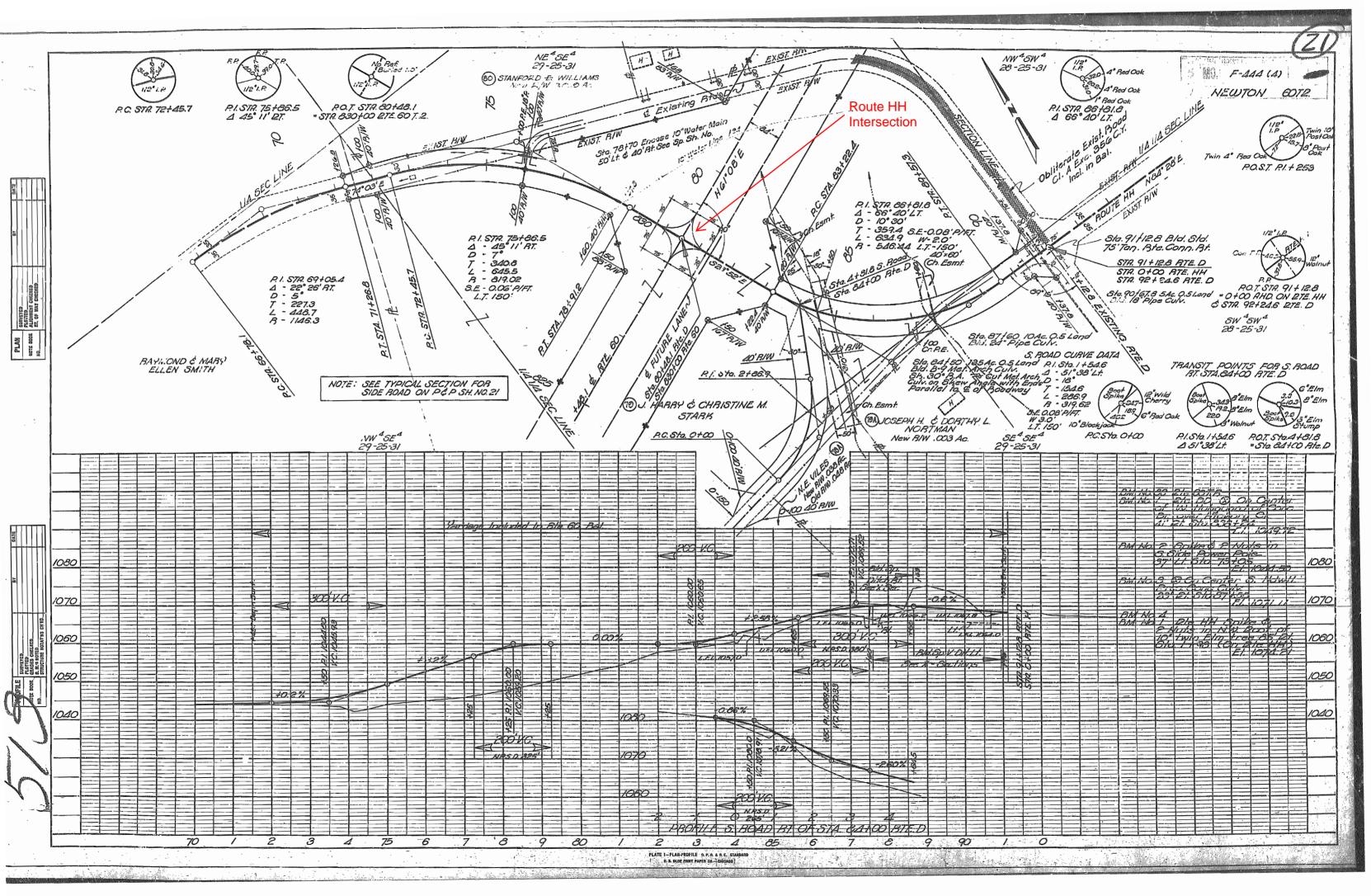


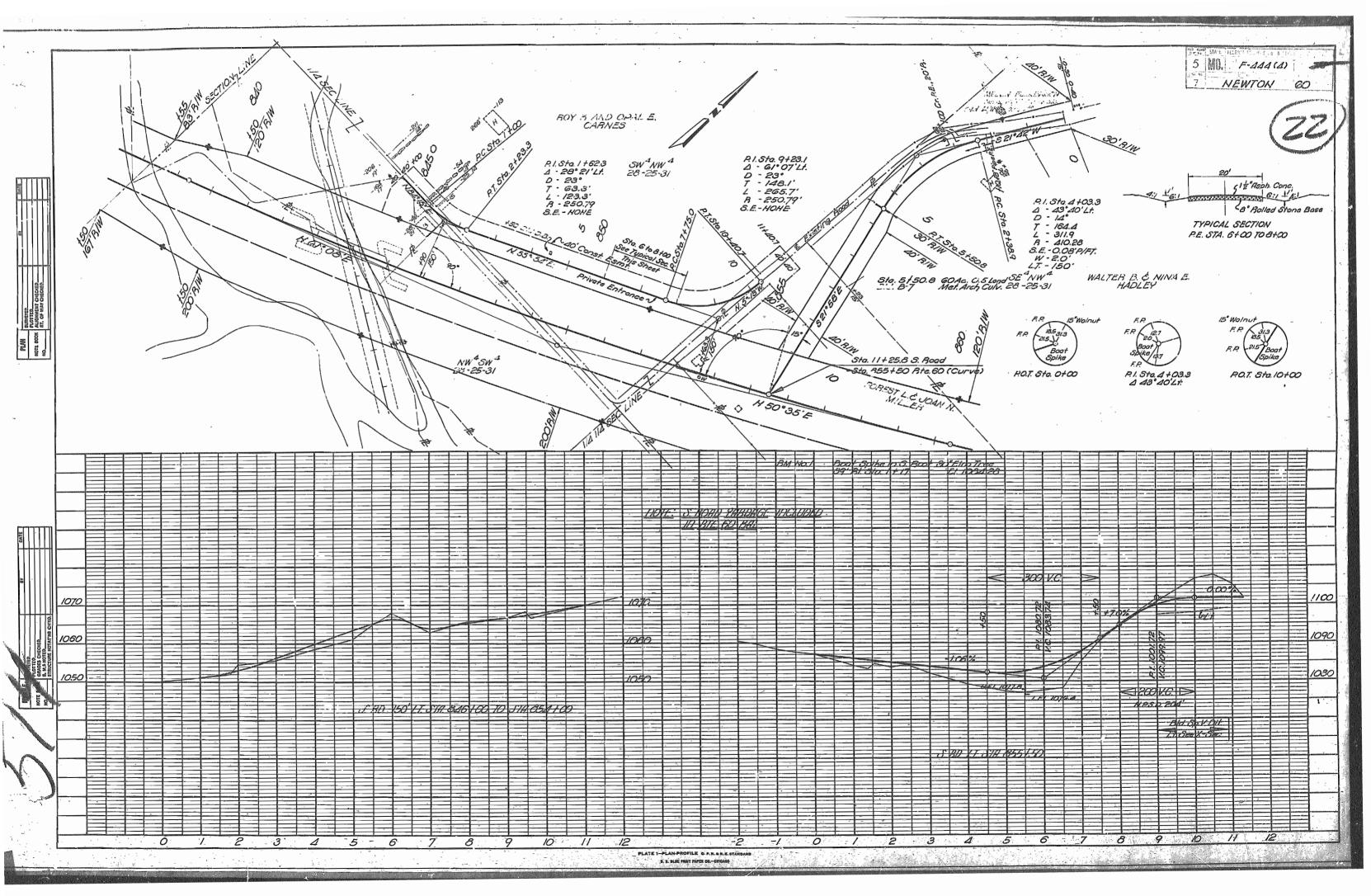


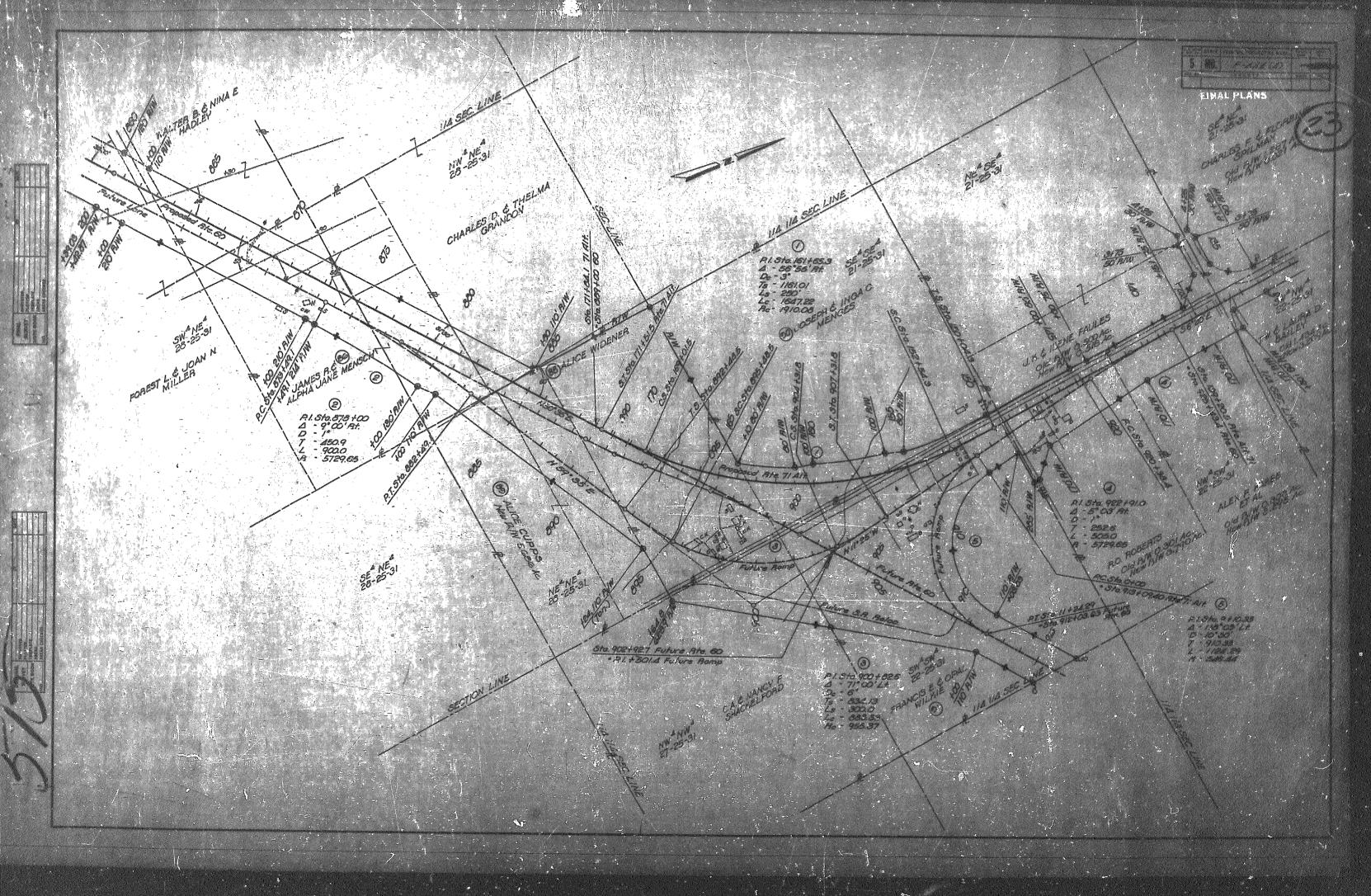












LIST OF STANDARD PLANS

PROJ. SHEET

F- 444(4) 24

CO. RTE.

							NEWTON	60
181-4	- Aller Control of the Control of th	(6-9-54)						
1720-1		(1-55)						
16 A-3	4	(3-16-59)						3
161-2				 				
244-5		(4-22-55)		 				<u> </u>
27 4-20		(11-5%)						
2842				 				
C 230 R2		(3-56)		 				
C 245R	to the second se		1					
C-820	1643	(4-23-59)						
C- 826	204-3			 				
C-820	30f3	A = 4.4.		 				
C- 20	-111			 1 Augustus				
CHORT	William Market Control	-						
	-			 	_			
						,		
		V			MAN WARRANTING MANAGEMENT			
	O TANAH TANA							

DESIGN DESIGNATION

A.D.T. - 1991 = 2660 A.D.T. - 2011 = 3930

7 OI = .V.M.G T = 10 % V = 50 M.P.H.

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED

STATE HIGHWAY

FEDERAL AID PROJECT

PROJECT LIMITS RIW, G.E., Drainage, Bridges

R30W R 29 W

NEWTONIA

STARK CITY

RITCHEY

NEWTON COUNTY /

NOTE:

THIS PROJECT SHALL BE CONSTRUCTED AS JOB NO. J7P0337 AND ALL REFERENCE TO JOB NO. 7-P-337 FOUND ELSEWHERE IN THESE PLANS SHALL BE CONSIDERED VOID.

EAY 0 1 1932

COUNTY NEL TON ROUTE 601 PROJECT SIPERI CO-1 JOB NO. 1770337

INDEX OF SHEETS

DESCRIPTION	Sheet Number
TITLE SHEET	'/
TYPICAL SECTIONS (2 SHEETS	;/
SUMMARY (2 SHEETS)	· 2-A
SUMMARY (5 SHEETS)	2.8
PLAN-PROFILE	
REFERENCE POINTS	
SPECIAL SHEETS	
TRAFFIC CONTROL	
TEMP. EROSION & SEDIMENT OC! TROL	
SIGNING	
CULVERT SECTIONS	31-75-
BRIDGE DRAWINGS	
STANDARD PLANS INDEX	
CROSS SECTIONS	
COMPUTER DATA	

LENGTH OF PROJECT

END OF PROJECT STA. 1837 + 75.00 STA. 1574 + 92.32 APPARENT LENGTH 126278.65 FEET

EQUATIONS AND EXCEPTIONS

1583+31.61 BK.= /

TOTAL CORRECTIONS -3.10 FEET NET LENGTH OF PROJECT 26275.58 FEET

STATE LENGTH

4.976 MILES

1-3.10

FEDERAL LENGTH

4.976 MILES

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUBMITTED

Dame Muri CHIEF ENGINEER

11-25-91 DATE

DATE

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

APPROVED

DIVISION ADMINISTRATOR

R/W NO. 7P 337-60

LIMITED ACCESS HIGHWAY

THIS SHALL BE A LIMITED ACCESS HIGHWAY SETWEEN A 15-51-77-TAND STA 19-371-75. DEXCEPT AT LOCATIONS AND OTHERWISE SPECIFICALLY SHOWN ON THESE PLANS, NO UTTER'S RIGHTS IN, OR OF DIRECT ACCESS TO, FROM, OR ROSE THE HIGHWAY OR ITS RIGHT-OF-WAY SHALL ATTACH SELLONG TO ANY PROPERTY ABUTTING ON SAID SECTION HIGHWAY, OR TO ANY PERSON MERELY RECAUSE OF NERSHIP OF SUCH ABUTTING PROPERTY, THERE SHALL BE USUAL RIGHT OF ACCESS OVER ANY LOCATION SHOWN THESE PLANS EITHER AS (1) AN ENTRANCE OR (2) A VATE UNDERPASS. WHEREVER AN ADJACENT OUTER ADWAY OR SERVICE ROAD IS SHOWN, THERE SHALL BE THE UAL RIGHT OF DIRECT ACCESS SETWEEN THE ABUTTING DEETTY AND SUCH OUTER ROADWAY OR SERVICE ROAD IS SHOWN, THERE SHALL BE THE CIAL SYMBOL DEMOTING NO RIGHT OF ACCESS AND ALONG CEPT WHERE ACCESS IS SPECIFICALLY PROHIBITED BY THE CIAL SYMBOL DEMOTING NO RIGHT OF ACCESS AND ALONG TO AMD FROM THE MEAREST LANG OF THE THRUMAY OR SERVICE ROADS, THE CASE MAY BE, ANE SO DESIGNATED ON THE PLANS.

CONVENTIONAL SIGNS

(USED IN PLANS)

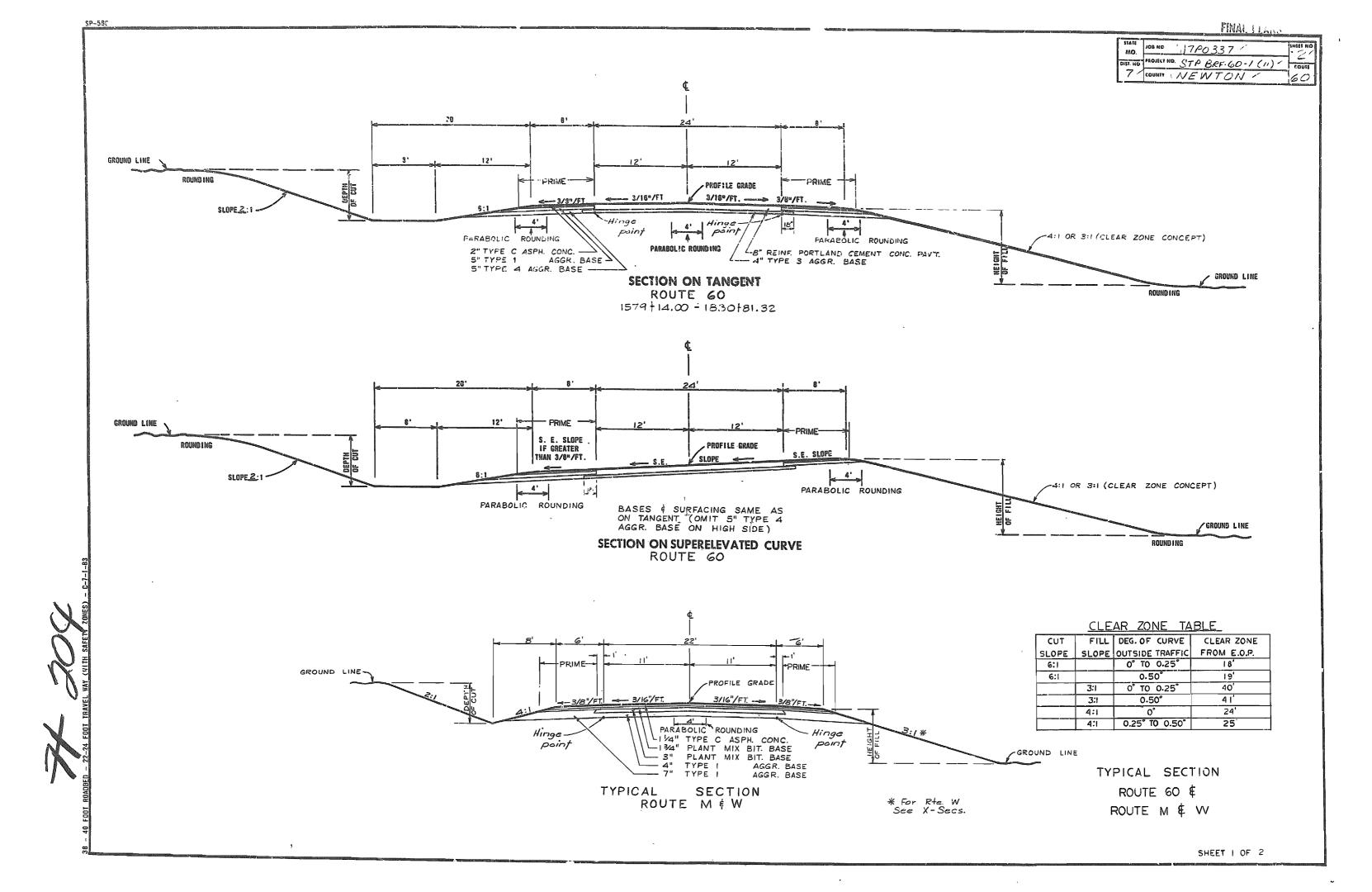
Scale in Miles

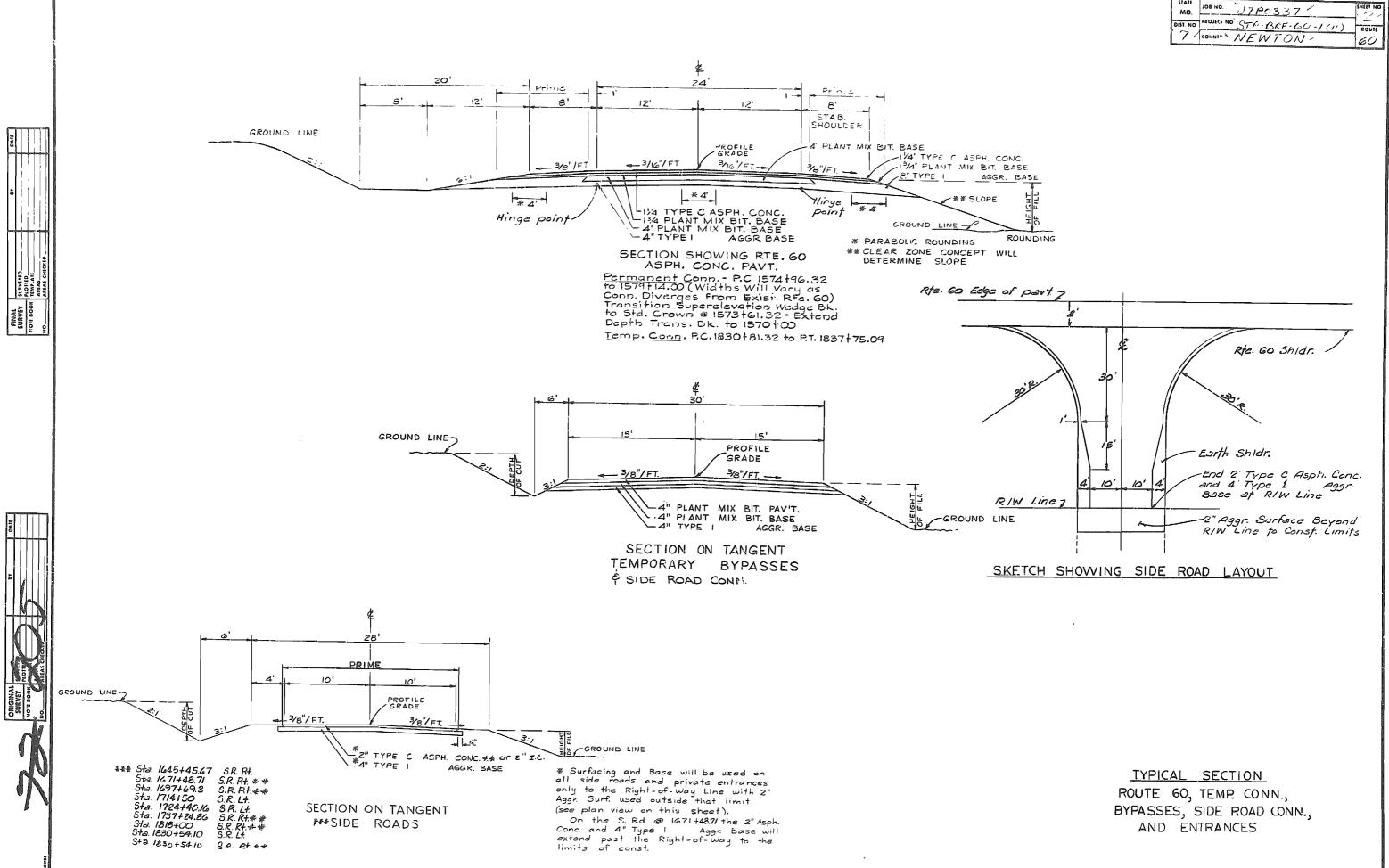
Sreek

BUILDINGS AND STRUCTURES CONCRETE RIGHT-OF-WAY MARKER STEEL RIGHT-OF-WAY MARKER CHAIN LINK WOVEN WIRE UTILITIES TELEPHONE UNDERGROUND TELEPHONE TITLE SHEET LEGEND

NOTE: DASHED OR OPEN SYMBOL INDICATES







MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

MEITE	DESCRIPTION	UNIT	QUANTITY
201-10.00	CLEARING	ACRE	32.9
201-20.00	SNISAGRA	ACRE -	19.8
202-20.10	PEROVAL OF INFROVENERIS	Limp sum	1 1/
203-10.00	CLASS A EXCAVATION (!)	CO AD	528,734
203-20.00	CLASS C EXCAVATION .	ÇO AD	¥7,365 C
203-60.00	COMPACTING EMPAREMENT	CO ED	468,999 /
203-70.75	COMPACTING IN CUT	STAT-108	1205/
205-10.00	OVEREAUL (STATION)	STA YD	3,704,911
206-30.00	CLASS 3 EXCAVATION	CO AD	1489 ✓
206-50.00	TEMPORARY SHORING	\$Q FT	1754
207-10.00	LIFEAR GRADING CLASS 1	STATION .	62.1
301-10.11	ASPRALT CEMENT (BITUMINOUS BASE)	20st	
301-20.00	AC-20 RIMERAL AGGREGATE (ZITURINOUS RASE)		248.3
		2018	5422 /
304-00.43	TYPE 1 AGGREGATE FOR BASE (4 IN. TRICK)	80 AD	23407/
104-00.53	TYPE 1 AGGREGATE FOR BASE (5 IW. TRICK)	go ad	53,279
304-00.73	Tipe 1 Augregate for Base (7 in. Thick)	80 ED	1,140
304-00.83	TYPE 1 AGGREGATE FOR BASE (8 IN. THICK)	हुं राठ	2,444
304-03.43	TIPE 3 AGGREGATE FOR BASE (4 IN. TRICK)	80 ED	73,465
304-04.53	TYPE 4 AGGREGATE FOR BASE (5 IN. TEICE)	80 AD	58,832
310-50.01	CRUSEED STONE (S)	co xp	₹ 659
401-10.11	ASPEALT CEMENT (BITUMINOUS PAVEMENT) AC-20	ion	119.5
401-20.10	MINUERAL AGGREGATE (BITUMINOUS PAVEMENT) BP-1	200	2441/
403-10.11	ASTRALT CREEKT (ASPEALTIC CONCRETE)	TON	279.0
203-10.26	MINERAL AGGRECATE (ASPEALTIC CONCRETE) (TYPE C NIX)	TOR	5920
407-10.05	TACK COAT	GALLO:	
40v-10.10	PRINE-LIQUID ASPHALT . MC 30	GALLON	660/
502-12.08	CONCRETE PAVEMENT (8 IM. REINFCRCED)		14080
503-10.00	ERIDGE APPROACE SLAB	8Ø XD	64905.6
601-10.00		gō ab	406.2
	Field Laboratories	LINE SIM	1/
¥05-20.10	CLASS B PERFORATED UNDERDRAIN	EIN FT	86
606-10.10	GUARD RAIL TYPE A	LIE FT	1,025
606-10.40	GUARD RAIL TYPE D	Lin pr	y. 125
606-22.00	SRIDGE ANCEON SECTION (SAFETY BARRIER CURB)	EACE	y 8/
606-30.10	EREALAWAY CABLE TERMINAL	ENCE	× 0/
608-30.00	CONCRETE MEDIAN STRIP	SQ YD	17.2
609-60.00	DITCE LINER	80 ED	<u> </u>
609-70.00	ROCE LINING	<u> </u>	759
		CO ID	M: \

ITEM	DESCRIPTION	UNIT	QUANTIT
611-10.10	FURNISHING ROCK FILL	CO AD	70/
612-10.20	PLACING ROCK FILL	CO YD	542
611-30.40	PLACING TYPE 2 ROCK BLANKET	ÇO AD	1,178
611-70.10	GEOTEXTILE PARRIC (SLIDE REPAIR)	SQ YD	
612-10.30	NOVABLE BARRICADE	EACE	833
612-90.10	INSTALLING GIVE EM A BRAKE 4 FT. X 8 FT. SIGN	e.c	,
612-90,20	INSTALLING GIVE EM A BRAKE 4 FT. X 4 FT. SIGN		> 4
		EACH	1 2
616-10.05	COMSTRUCTION SIGNS	DO FT	×1444
616-10.10	PELOCATED SIGNS	20 FT	₹330 /
616-10.20	CHAMMELIBER (DRUM)	EACE	₹97 ′
616-10.46	TYPE II OBJECT MARKER	БУСЯ	×0/
616-10.50	PLASHING ELECTRIC LICET	EACE	V 10
618-10.00	MOBILIBATION	tue sur	1 1
619-10.00	PAVEMENT EDGE TREATMENT	LIN PT	y 2667 ∕
620-51.03	TYPE 2 PREFORMED MARRING TAPE	ìco FT	ļ. —
620-51.04	TYPE 2 PREFORMED MARKING TAPE	100 FT	0-
620-53.01	4 IH., INTERMITTENT TELLOR PREFORMED REMOVABLE MARRING TAPE		0-
620-53.03	4 IM., SOLID WHITE	100 FT	70.7
	PREFORMED REMOVABLE MARRING TAPE 4 IN., SOLID YELLOW	100 FT	70,3
620-70.00	PAVEMENT STRIPE REMOVAL (PAINT)	100 FT	16.9
620-70.05	PAVEMENT STRIPE REMOVAL (TAPE)	100 FT	~ 0 /
703-20.01	CLASS B CONCRETE (CULVERTS)	CR AD	75.5
706-10.30	REINFORCING STEEL (CULVERTS)	POURID	9,050
725-02.15	15 IN. PIPE CULVERT GROUP II	LIK FT	894
725-02.18	18 IN. PIPE CULVERT GROUP II	LIN FT	372
725-02.24	24 IN. PIPE CULVERT GROUP II	LIE FT	
725-02.30	30 IM. PIPE CULVERT GROUP II	DIN PT	102
725-02.36			78
	36 IN. PIPE CULVERY GROUP II	LIN FT	116
725-10.15	15 IN. CORRUGATED NETAL PIPE	Den pr	₹ 90°
725-10.24	24 IN. CORRUGATED METAL PIPE	LIN FT	₩ 264
726-13.18	16 IN. CLASS III REIMFORCED CONCRETE PIPE CULVERT	LIN PT	7205/
726-13.24	24 IM. CLASS III REIMFORCED CONCRETE PIPE CULVERT	LIN PT	126
726-13.30	30 1M. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIÑ FT	7112
726-13.36	36 IN. CLASS III REINFORCED CONCRETE PIPE	LIE PT	105
726-13.48	48 IN. CLASS III REINFORCED CONCRETE PIPE	FIR B5	140
726-14.30	30 IN. CLASS IV REINFONCED CONCRETE PIPE		L *
726-14.36	CULVERT	Lin pr	¥197
	36 IN. CLASS IV REINFORCED CONCRETE PIPE CULVERT	CIN FT	¥215
726-14.42	42 IN. CLASS IV REINFORCED CONCRETE PIPE CULVERT	LIN PT	₹162

	STATE	JOB NO. \ J7P0337/	DELTIS.	
	DIST NO.	MOLECT NO. STP-BRF-60-1(11)	CA NOME	
أزو	<u>7</u>	COUNTY- NEWTON /	601	

		NTV-NEW	704/	7-1611)	.00%
ITEM	Sheet / of 2 / 1 day DESCRIPTION	TINU	7	nerkonnuniano mendo	
726-15.56	56 IM. CLASS V REINIORCED CONCRETE PIPE CULVERT	FIR LL	QUANTITY 193		
728-10.00	RELAID PIPE	LIE FT	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
732-00.15	15 IH. FLARED END SECTION	EACH	32 -		
732-00.19	18 IN. FLARED END SECTION	EACII	12		•
732-00.24	24 IN. FLARED END SECTION	EACH	` 6 ·		
732-00.30	30 IN. FLARED END SECTION	EACE	. 6.		
732-00.36	36 IN. FLARED END SECTION	EACH	~ 6/		
732-00.42	42 IN. FLARED END SECTION	ÈACH	2		
732-00.48	48 IN. FLARED END SECTION	EACE	\		
732-00.54	54 IN. FLARED END SECTION	EACE	~ 2		
802-50.00	TYPE 3 MOLCE	acre	108.3		
805-10.00	SEEDING	ACRE	!		
806-40.00	PLASTIC NETTING	èg vo	108,9		
606-99.90	ÈLOPE DRAINS	LIN DT	0		
806-99.91	ROCK DITCH CHRCKS	ENCH .	510		
806-99.92	STRAW BALE DITCE CEECE	lenca en ca	≈ 238 /		
806-99.93	BILT FERCE DITCE CEECR	EACH	₹620		
806-99.96	SEDIMENT BASING	CO ED	95		
806-99.95	GEDINEST REMOVAL	ÇO AD	× 0 /		
806-99.96	TEMPORARY SEEDING AND NULCE	ACRE	829		
806-99.97	STRAW BALES	rik et	1.9		
806-99.98	BILT FERCE	Lin et	¥4003		
903-50-15	TYPE IV ORJECT MARKER	EACH	√306i ∕ 15 ∕		
		EACH	2.5		
CONT					
50LOI CONT	*LAND FARM-SOIL	\$	9607,79		
50602-: CONT.	TEMP SURFACING	PCH SYD	578		
50%03-12 CONT.	THERMOTHARK "4" SYM	100 FT	34.4		
501:04 · · · · · · · · · · · · · · · · · · ·	THERMO MARK 4" I.Y.	-100 FT	2.0:		
50605-co	CLASS ATTUBE	EIN FT	116		
50006-0-	CORAIN DESSINE SUBSEP!	YEA.	2 86.		
50107.93	ASPH CEM AC-20 TIPE I-C	TON"	24.9		
CONT.	CHANGE VERNING THINKS	TON .	512		
CONT.	THANSHON SECTION	×EA.	~ 85€.		
CONT.	ONCE ACCOUNT WORK (LOW WATER CROSSING	PAG#	101,508.36		
CONT 50 Maries	ASPH DENSITY SAMPLE ABIT BASE)	SEA	6 =		
CONT.	CAMPLEDS (TYPE "C")	EA.	34		
.705-10369	CARCACING STEEL (SKIDGES)	5 00100	.,,~.		

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

UNIT QUANTITY

DESCRIPTION

ITEM

ITEM	DESCRIPTION	UNIT	QUANTITY
•,	,		
Pa Talanda minda			
	ERINGE DAG. NO. A-4893 STA 1706+60 (COMC ALTERNATE)		
202-10.20	RIMOVAL OF ERIDGES	Lung sun	N1 /
702-10.12	STRUCTURAL STELL PILES (12 IR.)	LIE FT	2 1246 /
702-60.00	PRE-BORD FOR PILING	Liu et	414 /
702-70.00	PILE POINT REINFORCEMENT	FACE	> 12 /
703-20.03	CLASS B CONCRETE (SUSSTR)	CU ED	61.3 /
703-62.13	SLAB ON CONCRETE 1-GIRDER, SEE SPECIAL FEDVISIONS	\$0 ED	1,160
703-62.15	SAFETY BASELER CURB	DIN 87	556
703-70.30	PLAIN INCOMENT BEARING PADS	EACH	5 5
703-71.50	LAMINATED MEOPRING BEARING PADS (TAPELED)	ENCE	25 /
705-11.85	PRESTRUSSED CONCRETE I-GIRDER, 65 FT SPAN	ENCE	15 /
706-10.60	REINFORCING STEEL (BRIDGES)	FGGGD	2,610
722-10.00	FAB. STRUCT. CARBON STEEL (MISC)	Pouss	73,840 /
712-36.10	SLAB DRAINS	EACE	> 36 /
712-36.50	VERTICAL DRAIN AT END BENTS	EACE	→ 2 ×
`	5 1 37-6-12 (1985) (1995)		
201-20.20	CONTROL OF STEEDS	ipe son	i i
100 33	RASS 1 PERCAPATON	21, 12	2.7
water 20,75	LIVER A MINISTER AND AND AND AND AND AND AND AND AND AND	Lt. 17.	,
w: 10A1	र प्राचित्र विकास विकास विकास १८० छ।	4 titt 12	7.451
era2-selob	במרבבי הייה באנים ביים באנים ביים ביים ביים ביים ביים ביים ביים ב	1.0 97	100
P. EC - TP 117	to the to be a second	hills .~	118
17 17 17	"MASE & CONCRETE (ETT DV)	50.42	:5
700 : 1.25	WANTED AND THE PROPERTY.	taer e	-
701 152.15	NUMPOTIVE COAPING - COMMITTE STATE	สมศัก ไขยห	,
700 55.00	# FOLSOWING COTTER + CONCREDE NEED-3	។ Σដែល ឡាហ៊	-
	ELAB ON BYING, STY S. MOIN INC 'SITTO	£0 50	. 2,61
702 42.12	and the property of the same same same same same same same sam	1	1
702 42.12	African grant in a	\n\a	(2.27)
		Vis ex Sage	\$2.233 780 -

STATE	50 NO. 17PO337	DA.
DIST NO.	MOLECT NO. STP-BRF-GO-KIN	ROUTE
/ [7]	COUNTY-NEWTON	601

	Sheet 2 of 2/ 7/CM	NEW7	ons /
ITEM	DESCRIPTION	UNIT	CUANTITY
			Older Biology and Colonian States District
	·		
	221		
			·
	ERIDGE NO. A-6894 STA 1768+90 (CONC ALTERNATE)		,
202-10.20	REMOVAL OF ERIDGES	Long som	\ 1 /
235-10.00	CLASS 1 EECAVATION	CO ED	292.0
205-20.00	CLASS 2 EXCAVATION	CU YD	7569.5 1
702-10.12	STRUCTURAL STEEL PILES (12 IN.)	LIN FT	7 2748 /
762-60.00	FRE-BORE FOR PILING	LIN FT	7115 1
`792-70.00	PILE POINT REINFORCEMENT	SyCR	7/02'
`703-20.03	CLASS B CONCRETE (SUBSTR)	CO AD	Y 533/
763-62.13	SLAB OR CONCRETE I-GIRDER, SHE SPECIAL		, ·
`	PROVIETONS	e6 ab	72,693
703-42.15	SAFETY RADRIER CURB	Lie FT	71,210
703-71.50	Laminated reoprise bearing pade (tapered)	race	70 /
705-11.61	PRESTRESSED CONCRETE 1-GIRDER, GD. FT SPAN	EACE	74 5
705-11.87	PRESTRESSED CONCRETE 1-GIRDER, 87 FT SPAN	EACE	W 29
706-10.60	REINFORCING STEEL (BRIDGES)	POUND	73,760
712-36.10	SLAB DRAINS	EACE	₹ 100 /
712-36.50	VERTICAL DRAIN AT END BENTS	EACE	2 /
CONT	PRESTRESSED CONCRETE I-GIRDER, 87 Fr. SPAN	EACH /	71/
505.01	2 Exc. STR. BELOW PEAN	Cu. Yo. 1	1211-51
505.02		Cu. Yo.	53.0
CONT 505.03	V. Exc. Sta Below: Plane /		
CONT 1 505.04	TEST HOLES	LIN. FT.	
CONT 505.05	CREVICE: CONCRETE	Cu. Yo.	×1-
CONT 505.00	PAIN REINFORCHNG STEEL (SUPERSTR.)	POUND /	7710 /
1	FÖOTNÖTE		
(i) /	INCLUDES 2409 CU YDS ROUNDING	1	
	The second and the second seco		
	1 2 2 3 3 4 4 5 2 7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
,	Accepted Dec. 28, 1993		
	Prepared By: William V Dations		
	Resident Engineer: For FMiller	Date	2/11/94
	District Office: Son Lowery	Date	03/24/94
- And - And	Main Office: Sandra Bean	Date	05/16/94
,			

								NAY ANI SUMMA					A faita!!	oldi	•						DIS		5TP-8	20337 BRE-60-	- (
								NTRANCES				_	····				_				£	ET I C	**************************************	NEWT	ON /
		53.48.89						- The state of the	encounténies ancora	THE RESERVE OF THE PERSON NAMED IN	RUAUS	# FIE	LD MEASURE	ED							1				
SHEE I	STATION	I YPE LLO	C. SID.	Z GRADE GI	ROUP I	SUNSEN	5"118"24"	ECT. RELATING	ASS 3 DVE	FILL	4"T	YPE				REMA	RKS					PF.	<u> 17 0</u>	BJECT	<u>M</u>
					710 E	30 30 11	3 110 24	PIPE E	AL. HE.	UHI	AGO	<u> </u>	· 								SHEE	T STA.	LOC.	FACH -	R
1					/						S.	Y.	┼								``7 v	∕ 1705±	E RT.	-3 0	CO. R
'3 - 3	- 1574+75 · - 1577+00 v	C.E. LI	203.31	-5.53 48	31		5√ 5 ₁			.5'	√ 97	.8√				30'	TOP ·		 -	+	14-	11724+00)Ol √ ¢ ′	1 3 7 FX	OTE
3	1577+75 <	P.E. LT	203.3	7.85 30	5/		21			.0'	1119					>30'					14	1783+4	5 ¢	3 EX	RTE.
3	1580+15	F.E. RI	203.31	++3.57	7					.5	1	.81	 			- 110.5					14 -	1806+2	.5 ¢ ⁄	3 EXI	IST. R
` 3	1580+50 ✓ 1593+00 ✓	F.E. LI	203.31	→3.23 28	31		2			.5′			† 	_		NO P	The	+					_		
` 4	1602+27	F.E. LI	203.31	0.0		 	5.		- 3	.5'										+		+	TIUIAL	15	
- 4	~1618+37.65·	RTE. W LT	203.31	-2-0						+_			 		U.I	P. EXIST.	15" C.M	.P. /					 		
4	1618+37.65	RTE. M RT	203.31	+1.0									80' Ape in	Poss G	NO PIPE. C	TN TARIN	TABULATIO	N ROUTE W							
5 .	2+80 ×	P.E. RI	- V203.30	1 × 10.0 36	5"	╀┈┼	+++			1'		.81			SK. 15°	L.A. S.R	RT. 161	8+37.65	1. 10. 92-681	+	+				
- 5.	1637+50	F.E. RT	. 203.31	-2.32		 				 - -	18	3 √				\ NO P	IPE /				RZ	W MZ	KKET	S (BY	7-0
- 5	1645+45.67/	S.RD.71-RT	203.31	-2.45 46	31		2.			3'	330	19 1				_ NO P	IPE /	+					1	l	***************************************
5 5.	1654+44	P.E. TLT	203.31	-1.29	+							3 /		_		> NO P	IPE /	+		+	SHEE.	ISTA.	LOC.	STEELCO	
- 6.	1 1664+00	P.E. LT	203.31	1-2.77	 	 	- - -					-/				NO P	t-nm-			+	6	1672+7	5 70'RT.	EA. E	.A.
. 6	1664+00 /	F.E. THRT	. 203.31	0.00					\dashv		- 	3 /	 		\bot	- NO P					6	1678+70	070'RT.		-
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° 6.	↑ 1671+48.71 Z	ร.ดถ∜% ดร	Lis 200 - Li	1 7 7 7 E	100	1 7	21			5'						SK. 5°		 	 -	+	13	1823+00	0 75'RT. 0 75'		
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7 1	1697+69.3	S.RD.™ RT	12. 20cl 1	1 - A 5 1		784				0'	405	-	 			STA. 3+Z	_		į .		13	1832+00	0 75'RT.		
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MISSOUR! HIGHWAY AND TRANSPORTATION COMMISSION

REV MAY 1, 89 STATE MO JOB NO. J7F03:77 2B ROUTE

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MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

REV MAY 1, 89

STATE
MO
DIST NO.

PROJECT NO. STA-BAFGO-I(1)
ROUTE
ROUTE
FOUNTY
NEWTON

SMEET 7.05.7

SHEET 3 OF 7 PLASTIC NETTING ROCK BLANKET TYPE 2 CLEARING & GRUBBING SHEET STA. TO STA. LOC. AREA REMARKS LOC. DEPTH PLACE SHEET STA. TO STA. CLEAR GRUB REMARKS SHEET FT. C.Y. 1706+30-1706+85 LT.&RT. 2 266 WEST SPILLFILL (NEWTONIA BRANCH) TOTAL 1708+79-1709+70 LT.&RT. 436 / 19.8 ___2 EAST SPILLFILL (NEWTONIA BRANCH) 0 9 1774+74.1 LT.&RT. EAST SPILLFILL (SHOAL CREEK) TOTAL 1/78 CY CONCRETE MEDIAN STRIP SHEET STA. TO STA. LOC. S.Y.

-4/19 1618+13.65-1618+24.65 LT. 8.6

4/19 1618+51.65-1618+62.65 RT. 8.6 RTE. W INTERSECTION RTE. M INTERSECTION / TOTAL 17.2 PAVEMENT STRIPE REMOVAL (PAINT) SHEET STA. TO STA. LOCATION 4" 4" 4" 4" REMARKS SOLIDSOLID INT. WHITE YLW. YLW. 100' 100' 100' BRIDGE APPROACH SLABS SHEET STA. TO STA. LOC. SKEW CONC. RT EOR EXIST RTE 60 REMARKS 6.00 (DBL. YELLOW)V 2.00 7 1706+32:93-1706+60 EXIST RTE. GO 20°R.A. 116.8 121 1856+00 1858+00 6. 1679+28 51679+651 41 2.0/4 E EXIST. RTE. 60 7 / 1709+16.2-1709+43.27 £ 20°R.A. 116.8 v - E V (DEL YELLOW) EXISI. RTE. 60 9 / 1768+70-1768+90 86.3 Œ ′ 9 / 1774+74.1-1774+94.1 ¢, 86.3 TOTAL 3.30 13.14 .50 U.SE 16.9 (100') TOTAL 406.2 LEMPORARY SHURING PREFORMED REMOVABLE MARKING TAPE SHEET STA. TO STA. LOC. S.F. SHEET STA. TO STA. LOCATION 4" 4"

SOLIDSOLID

YLW. WHITE REMARKS -- 1 48' LT. 754 (SEE CULVERT SECTION FOR DETAILS)' 1598+7i 4 1609+85 51' LT: 644 " 53' LT 356 " " 6 1667+97 -1679+98.59 BYPASS & Z3.8 DBL. SOLID YELLOW 6 1667+ 97 -1679+98.59 BYPASS E.P. TOTAL 1754 Z4.2 WHITE EDGE LINES LT. & RT. | 11&12 | 1834+73.16-1857+96.56 | BYPASS & 46.50 | DBL. SOLID YELLOW | 11&12 | 1834+73.16-1857+96.56 | BYPASS E.P. | 46.50 | WHITE EDGE LINES LT. & RT. TOTALS 70.30 70.70 / THERMO MARKING SHEET STA. TO STA. LOCATION \4" 4"

SOLID INT. CORRUGATED METAL PIPES REMARKS SHEET STA. LOCATION SKEW 15" 24" CL.3 EXC. C.Y. 13 1839+87¢ TEMP. BYPASS 30 L.A. 56' 51' YLW. YLW. PAVEMENT STRIPE REMOVAL (TAPE) 3 / 1569+25 -1579+14 LT. FRT. £ 19.80 4 / 0+89.8 -4+10.8 / LT. FRT. £ 6.40 11/2 1830+81.32 -1837+75 LT. £ 6.90 6.8/4 12 1854+83.35 -1856+07.35 RT. £ 1.30 1.2 /4 REMARKS RTE M SHEET STA. TO STA. LOCATION REMARKS SOLID SOLID YLW. WHITE 100' 100' 14 1781+65 - ¢ / LOW WATER X-ING BEVEL 4:17 SALVAGED FOR MAINTENANCE .66, √ -6 14 1781+68 66' LOW WATER X-ING BEVEL 4:1 14 1781+71 V 34.4 2.0 (100' TOTAL ~66' LOW WATER X-ING BEVEL 4:17 14 1781+74 ~66·/ LOW WATER X-ING BEVEL 4:14 TOTAL 98 264 86 V TOTALS O O

78 211

SUMMARY OF QUANTITIES

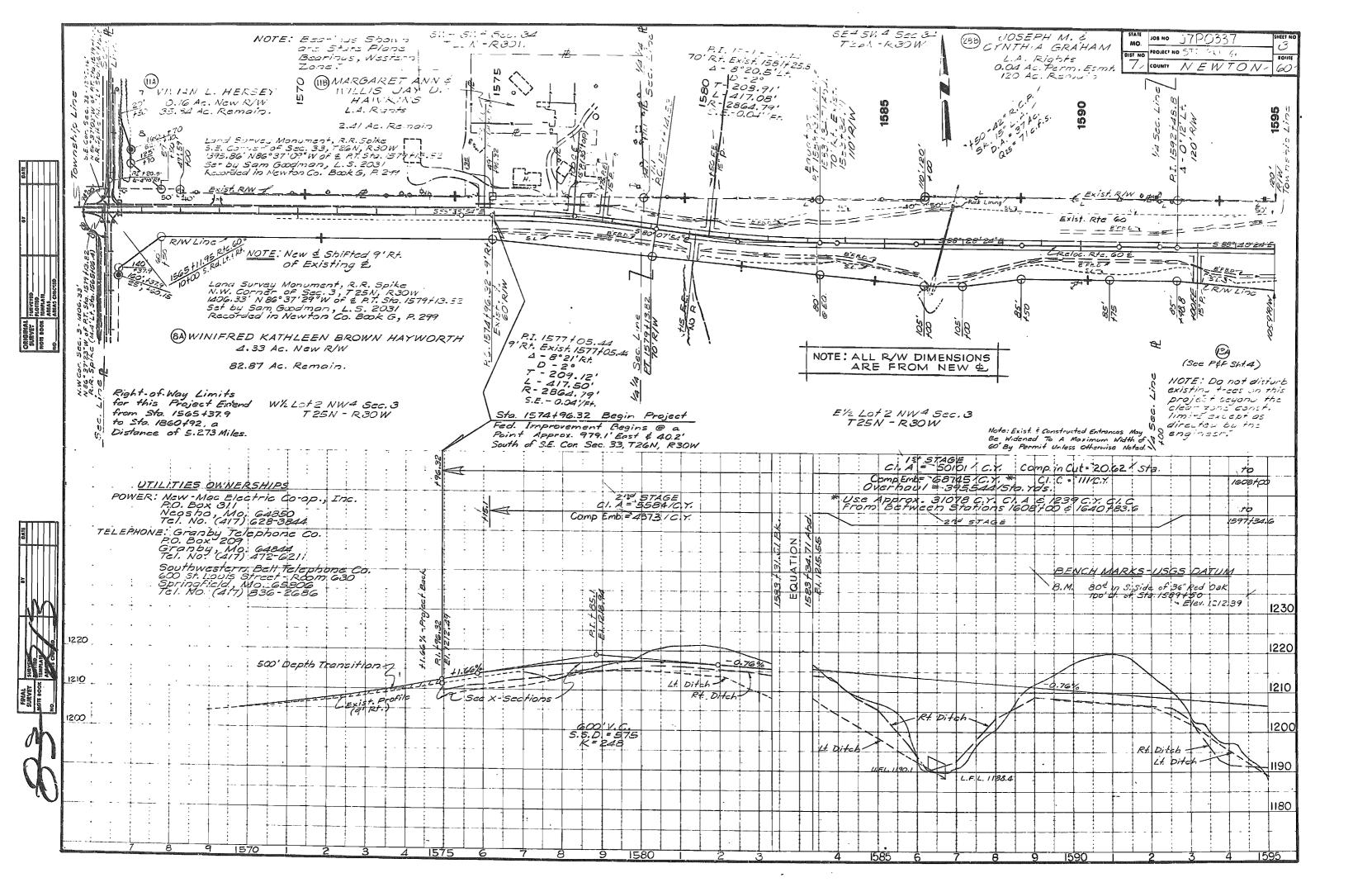
SIGN SIZE AREA OTY DESCRIPTION	
WOI-1Rb	
WOI-1Rb	
WO1-2Lb	
WOI-3Lb	
WOI-3Rb	
WOI-4Lb 48X48 16.0 REVERSE CURVE (SYMBOL LEFT ARROW)	
WOI-4Rb 48X48 16.0 REVERSE CURVE (SYMBOL RIGHT ARROW	
WC1-4Rb2 48X48 16.0 DOUBLE ARROW REVERSE CURVE (SYM F	RT ARROWS)
WOI-6 48X24 8.0 HORIZONTAL ARROW (SYMBOL)	
WOI-6a 72X36 18.0 HORIZONTAL ARROW (SYMBOL)	(DOL)
WOI-7	
W01-6 18X24 3.0 CHEVRON (SYMBOL)	100 J
WC3-16 48X48 16.0 STCP AHEAD	
WO3-25 48X48 16.0 YIELD AHEAD	
W03-3b 48X48 16.0 SIGNAL AHEAD (SYMBOL)	
W03-4b 48X48 16.0 BE PREPARED TO STOP	
WQ4-1Lb 48X48 16.0 MERGE (SYMBOL FROM LEFT) WQ4-1Rb 48X48 16.0 MERGE (SYMBOL FROM RIGHT)	
W05-1a 48X48 16.0 ROAD NARROWS	
W05-3a 48X48 16.0 ONE LANE BRIDGE	
WUG-16 48X48 16.0 DIVIDED HIGHWAY	
WOG-26 48X48 16.0 DIVIDED HIGHWAY ENDS	
W06-3b	
WO6-3x 24X18 3.0 TWO WAY TRAFFIC (PLAQUE) WO8-1b 48X48 16.0 BUMP	
WO8-2b 48X48 16.0 DIP	
WO8-3 48X48 16.0 PAVEMENT ENDS	
WO8-46 48X48 16.0 SOFT SHOULDER	
WO8-56 48X48 16.0 SLIPPERY WHEN WET (SYMBOL)	
WO8-66	
W08-5c	<u> </u>
WO8-9 48X48 16.0 LOW SHOULDER	
W08-9La 48X48 16.0 UNEVEN PAVEMENT (SYM FOR LT DROPE	OFF)
WO8-9Ro 48X48 16.0 UNEVEN PAVEMENT (SYM FOR ET DROPO	
W09-1R 48X48 16.0 RIGHT LANE ENDS (INCLUDES W025-3	
LANGE KIGHT (INCLOSES)	W025-36 PLATE)
W10-16 42D(a 9.6 RAILROAD CROSSING	
W012-20 48X48 16.0 LOW CLEARANCE (SYMBOL)	
WO12-2x 24X18 3.0 LOW CLEARANCE (PLAQUE)	
WO12-3u,b 144X24 24.0 OVERHEAD LOW CLEARANCE (FEET AND	
W013-1a 24X24 4.0 8 32 ADVISORY SPEED (PLAQUE) 3 W020-1 48X48 16.0 27 432.0 5 80 ROAD CONST AHEAD (INCLUDES W025-	0 M.P.H.
W020-1 48X48 16.0 27 432.0 5 80 ROAD CONST AHEAD (INCLUDES W025-I W020-2 48X48 16.0 4 64.0 DETOUR AHEAD (INCLUDES W025-Ib PI	6 PLATE)
W020-3 48X48 16.0 ROAD CLOSED AHEAD (INCLUDES W025-16 PI	-Ic PLATE)
W020-4a 48X48 16.0 2 / 32 ONE LANE ROAD AHEAD (INCLUDES W0	25-la PLATE)
WU20-5 48X48 16.0 RIGHT LANE CLOSED AHEAD (INCL WO	25-3d PLATE)
WU20-6a 48X48 16.0 RIGHT LANE CLOSED (INCLUDES W025	-3c PLATE)
LIGHT DE PERSONAL STABOL S	
W020-7x 24X18 3.0 500 FT/1000 FT (PLAQUE)	
W021-2b 48X48 16.0	
W021-5b 48X48 16.0 5 480 SHOULDER WORK AHEAD	 -
W021-7 36X36 9.0 SAND BLASTING	
W022-1 48X48 16.0 BLASTING ZONE 1000 FT W022-2 42X36 10.5 TURN OFF 2-WAY PARTO	
WOOD 7 ANYTO IN THE PROPERTY OF PART RADIO	
WO22-3	
W025-1a 26X9 1000 FT/1500 FT Plate	
W025-1b 38X9 500 FT/1000 FT Plate	
W025-1c 34X9 500 FT/1000 FT Plata	

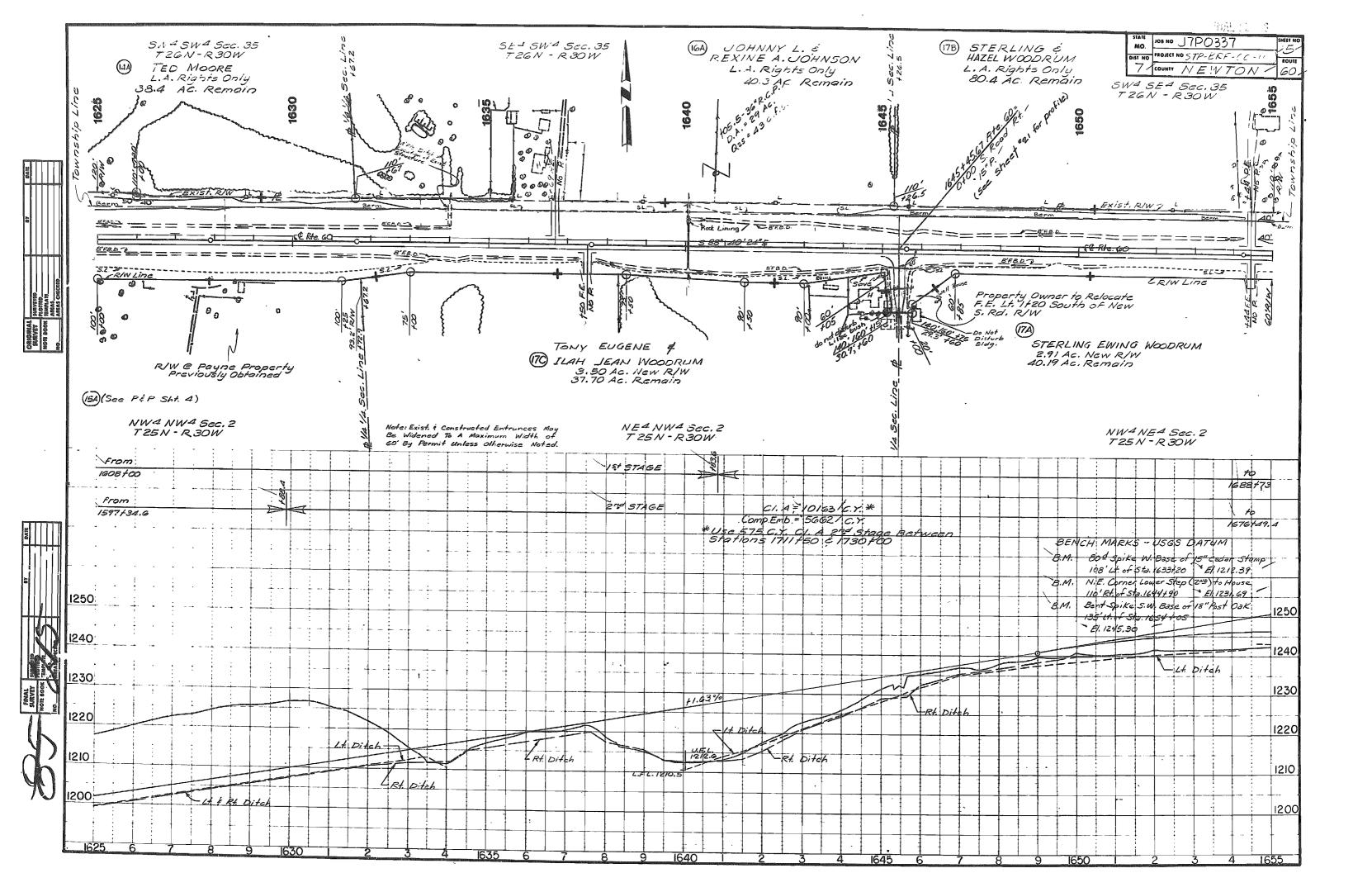
SIGN		AREA	QTY	TOTAL	OTY RELOC	TOTAL RELOC AREA	DESCRIPTION	
W025-3b	30X9	(SQ FT)					LEFT Plate	
W025-3c	33X9	ļ					LEFT/CENTER Plate	
W025-3d	22X9	-				-	LEFT/CENTER Plate	
W025-5	30X12	2.5					1/2 MILE/I MILE (PLAQUE)	
W025-6	28X9						RAMP/BRIDGE Plate	
					REGL		Y SIGNS	
RI-Ib	48X48	13.25				·	ISTOP	
R1-2a	48X48X48	6.93					YIELD	
R1-3	20X9	1.25				-	4-WAY (PLAQUE)	
RI-5	20X9	1,25				<u> </u>	3-WAY (PLAQUE)	
R2-16	36X48	12.00	10/	720			SPEED LIMIT XX (2) 55 M.P.H. (5) 30 M.P.H. & (2) 20 M.P.H.	
R2-5b	36X48	12.00	751	60			REDUCED SPEED AHEAD	
R3-16	36x36	9.00					NO RIGHT TURN (SYMBOL)	
R3-2b	36X36	9.00					NO LEFT TURN (SYMBOL)	
R3-3a	36X36	9.00				ļ	NO TURNS	
R3-4	24X24	4.00					NO U-TURN (SYMBOL)	
R3-7L	30X30	6.25	ļ				LEFT LANE MUST TURN LEFT	
R3-7R	30X30	6,25	<u> </u>				RIGHT LANE MUST TURN RIGHT	
R4-16	36X48	12.00	ļ	ļ		ļ	DO NOT PASS	
R4-2b R4-7Lb	36X48	12.00	 			ļ	PASS WITH CARE	
R4-7Lb	36X48	12.00	 	}			KEEP LEFT (HORIZONTAL ARROW)	
R4-17La	36X48 36X36	12.00				<u> </u>	KEEP RIGHT (HORIZONTAL ARROW)	
R4-17L0	36X36	9.00					KEEP LEFT	
R5-1	30X30	6.25		_		ļ	KEEP RIGHT DO NOT ENTER	
R5-1a	36X24	6.00	 				WRONG WAY	
R6-1La	48X18	6.00	 	_			ONE WAY ARROW (LEFT)	
R6-iRa	48X18	6.00		 			ONE WAY ARROW (RIGHT)	
R6-2La	24X30	5.00		i -			ONE WAY (LEFT)	
R6-2Ra	24X30	5.00					ONE WAY (RIGHT)	
R11-2	48X30	10.00	13/	130.0	~4 /	40.0	ROAD CLOSED	
RII-3	60X30	12,50		<u> </u>			ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY	
R11-4	60X30	12.50	5 /	62.5	~4 /	√50.0°	ROAD CLOSED TO THRU TRAFFIC	
R12-3b	36X36	9.00					TO ONCOMING TRAFFIC (PLAQUE)	
S4-4a	36X18	4.50					WHEN FLASHING	
					G	UIDE S	SIGNS	
G020-1	60X36	15.00	~24	30.0	<u> </u>		ROAD CONSTRUCTION NEXT XX MILES	
G020-2	60X24	10.00	21	20.0		†	END CONSTRUCTION	
M04-8a	30X15	3.13					DETOUR (PLAQUE)	
M04-9L	48X36	12.00			l		DETOUR (LEFT ARROW)	
M04-9R	48X36	12.00					DETOUR (RIGHT ARROW)	
M04-10L	48X18	6.00	12€	72.0			DETCUR (ARROW LEFT)	
MO4-10R	48X18		3 1	18 /			DETOUR (ARROW RIGHT)	
M04-11	24X18	3.00					DETOUR ENDS	
M5-IL	21X15	2.19	 				ADVANCE LEFT TURN ARROW	
M5-1R	21X15	2.19		<u>j</u>			ADVANCE RIGHT TURN ARROW	
	7			M	ISCE	LLANE	DUS SIGNS	
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616-10.05								
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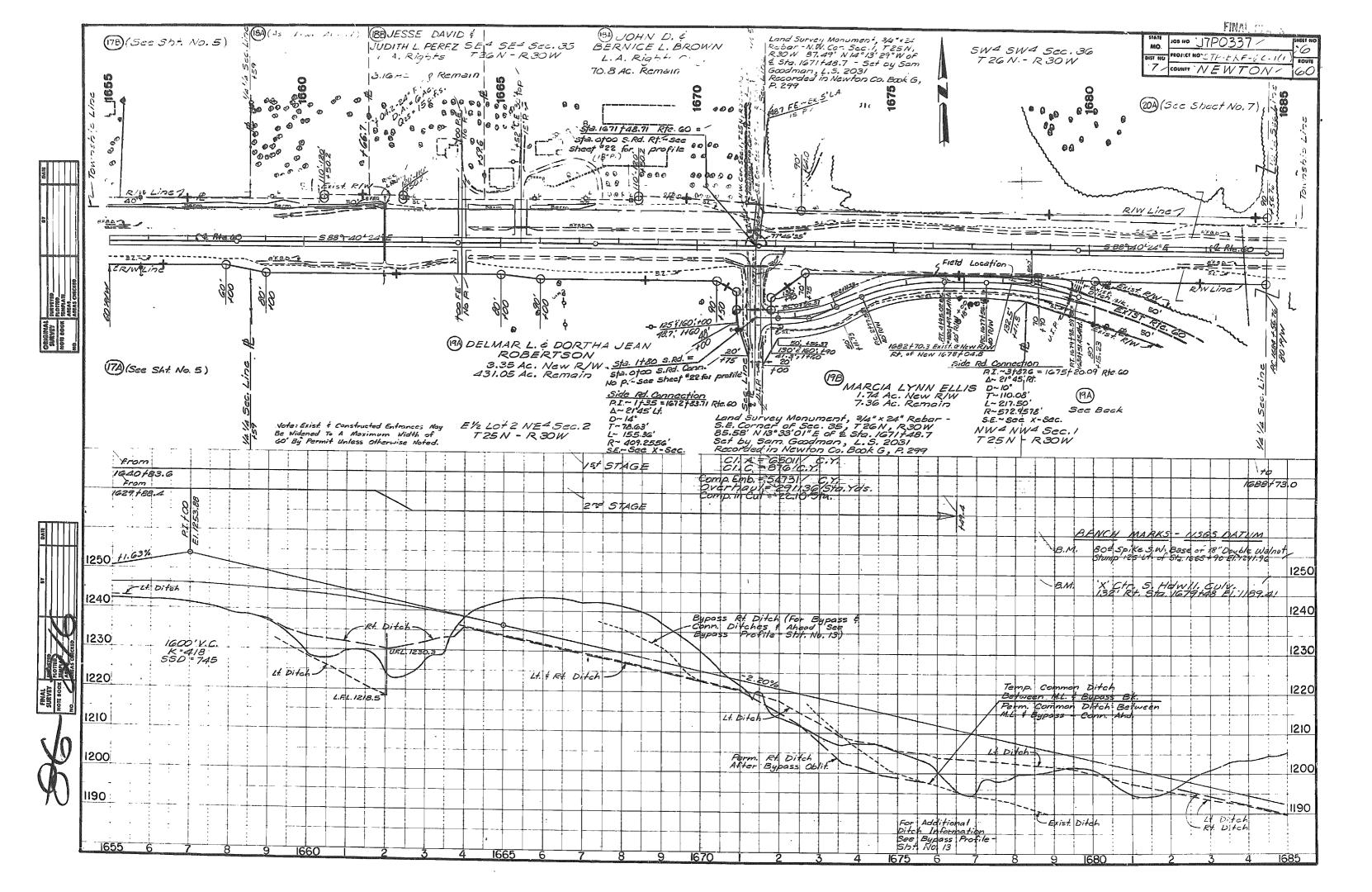
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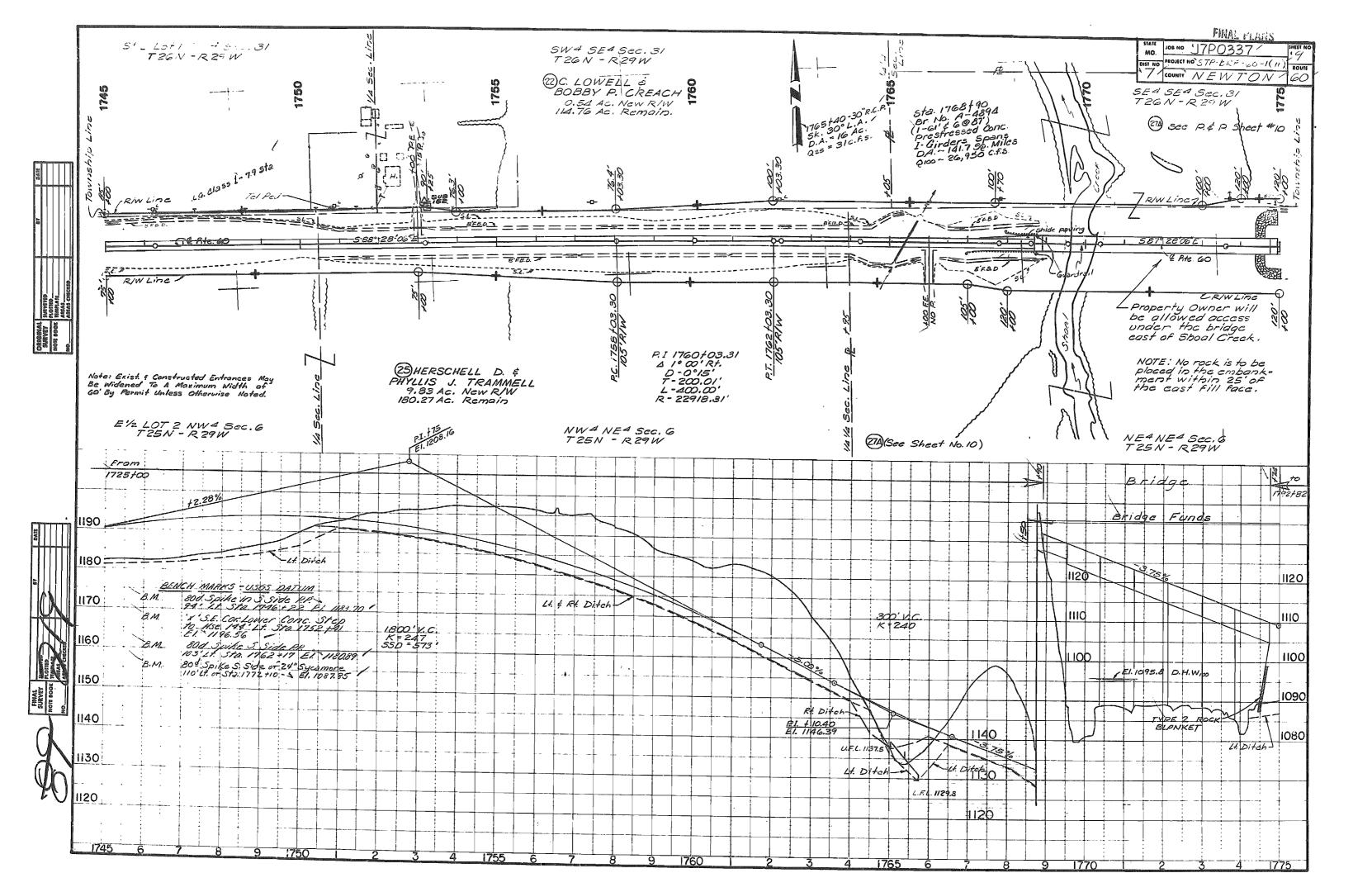
SHEET 7 OF 7

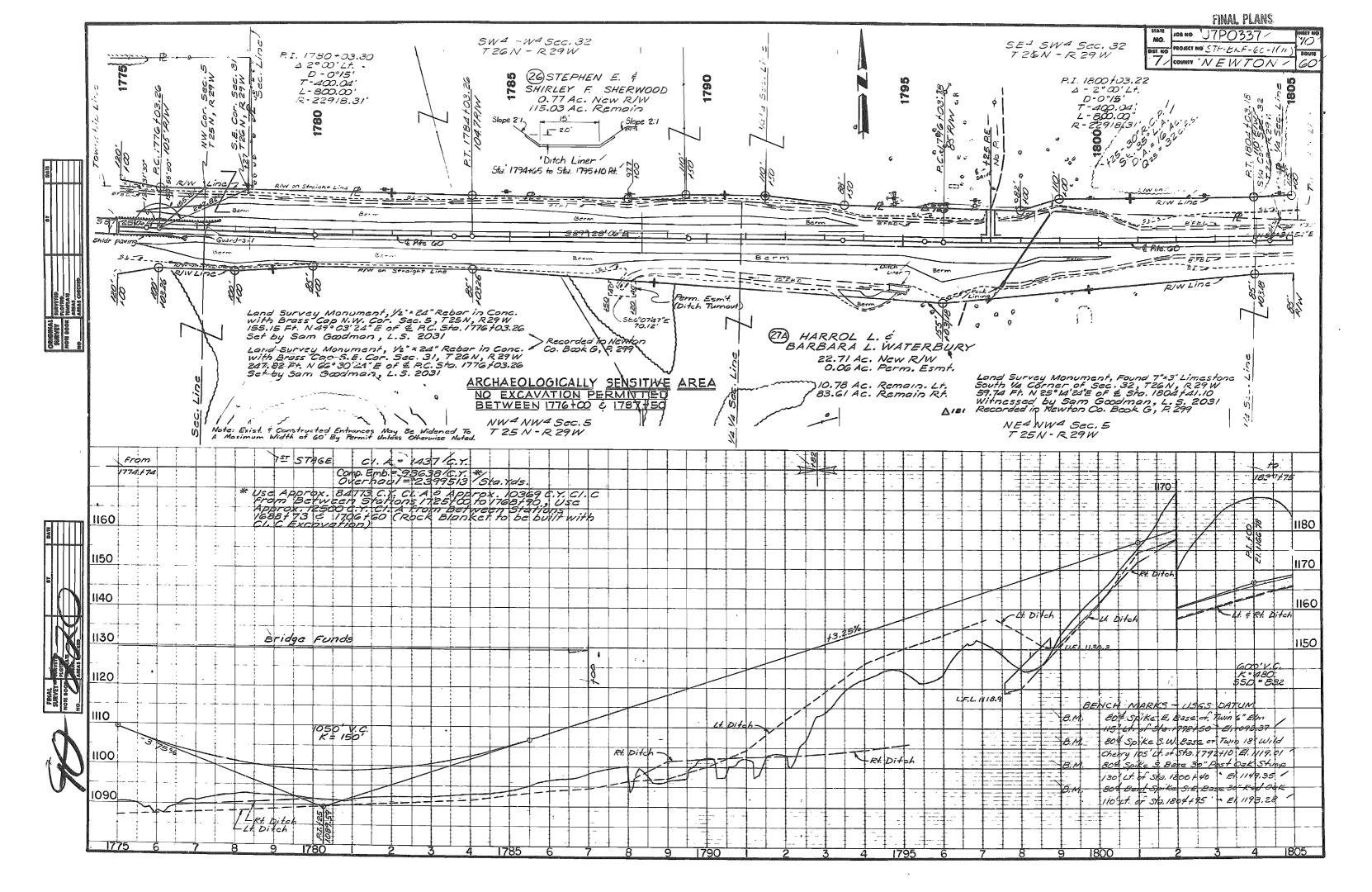
ITEM	6776	TOTAL				
NUMBER	OLZE (INS)	OTY	DESCRIPTION			
616-10.20		CONTRACTOR OF THE PERSON NAMED IN COLUMN	CHANNELIZER (DRUM)			
6!6-10.35	8X24		TYPE I BARRICADE (ONE RAIL)			
616-10.36	8X24		TYPE II BARRICADE (TWO RAILS)			
616-10.40	48X96		FLASHING ARROW PANEL			
616-10.45	18X18		TYPE I OBJECT MARKER			
616-10.46	6X12		TYPE II OBJECT MARKER			
616-10.47	8X24		TYPE III OBJECT MARKER			
616-10.50	8	110 1	FLASHING ELECTRIC LIGHT			
616-10.51			WARNING LIGHT TYPE A			
616-10.52			WARNING LIGHT TYPE B			
616-10.53			WARNING LIGHT TYPE C			
616-10.54			STROBE LIGHT			
616-10.60			RAISED PAVEMENT MARKER			
616-10.70	28		FLEXIBLE DELINEATOR			
616-10.80	LIN FT	12667 V	EDGE DROPOFF TREATMENT			
612-10.30			MOVEABLE BARRICADE (THREE RAILS			
612-90.10	48X96	- 4 V	. INSTALLING GIVE'EM A BRAKE			
612-90.20	48X48	~ 2 V	. INSTALLING GIVE'EM A BRAKE			
			 SEE GENERAL SPECIAL PROVISIONS 			
			Variationsaliza			

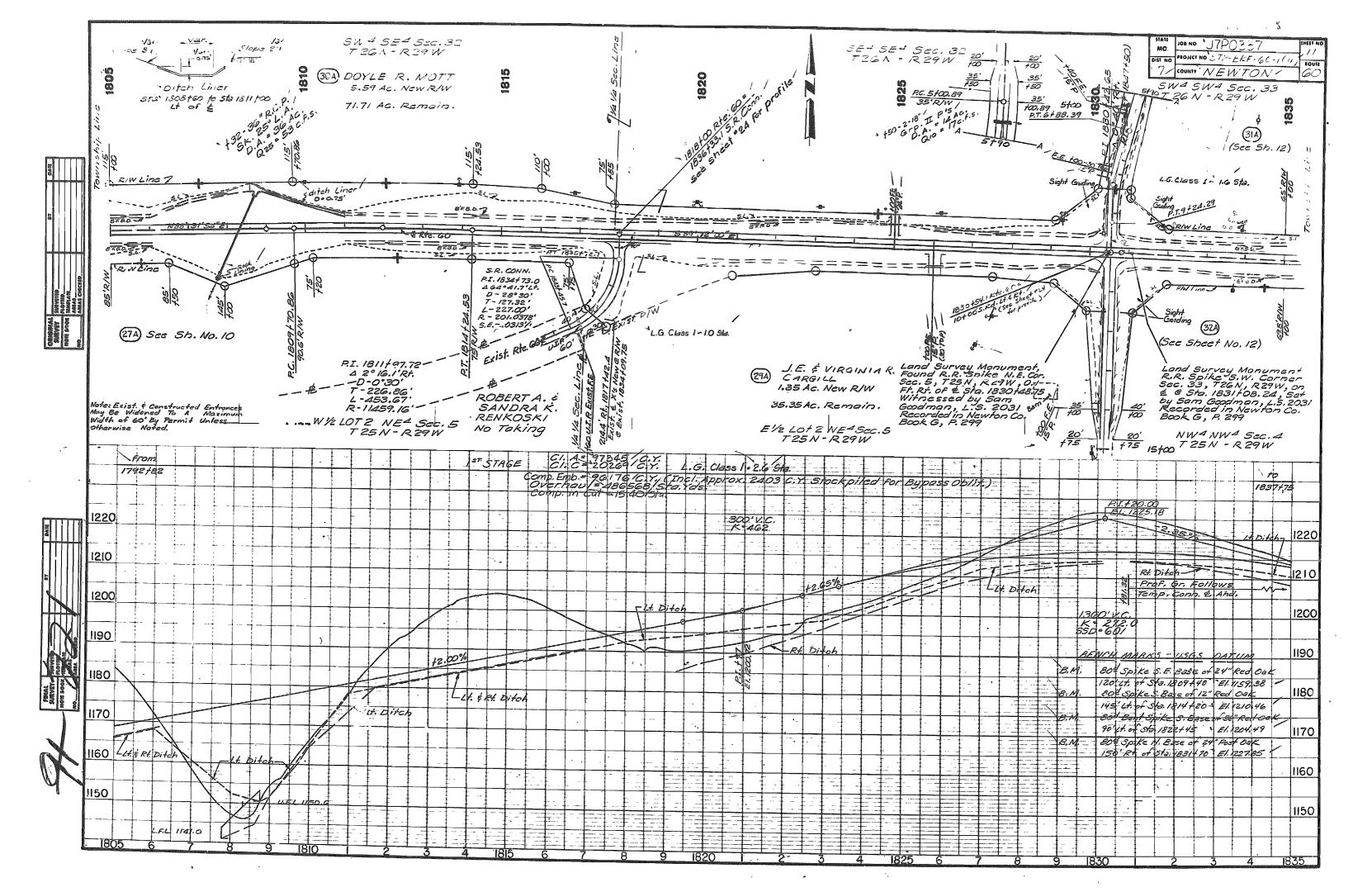


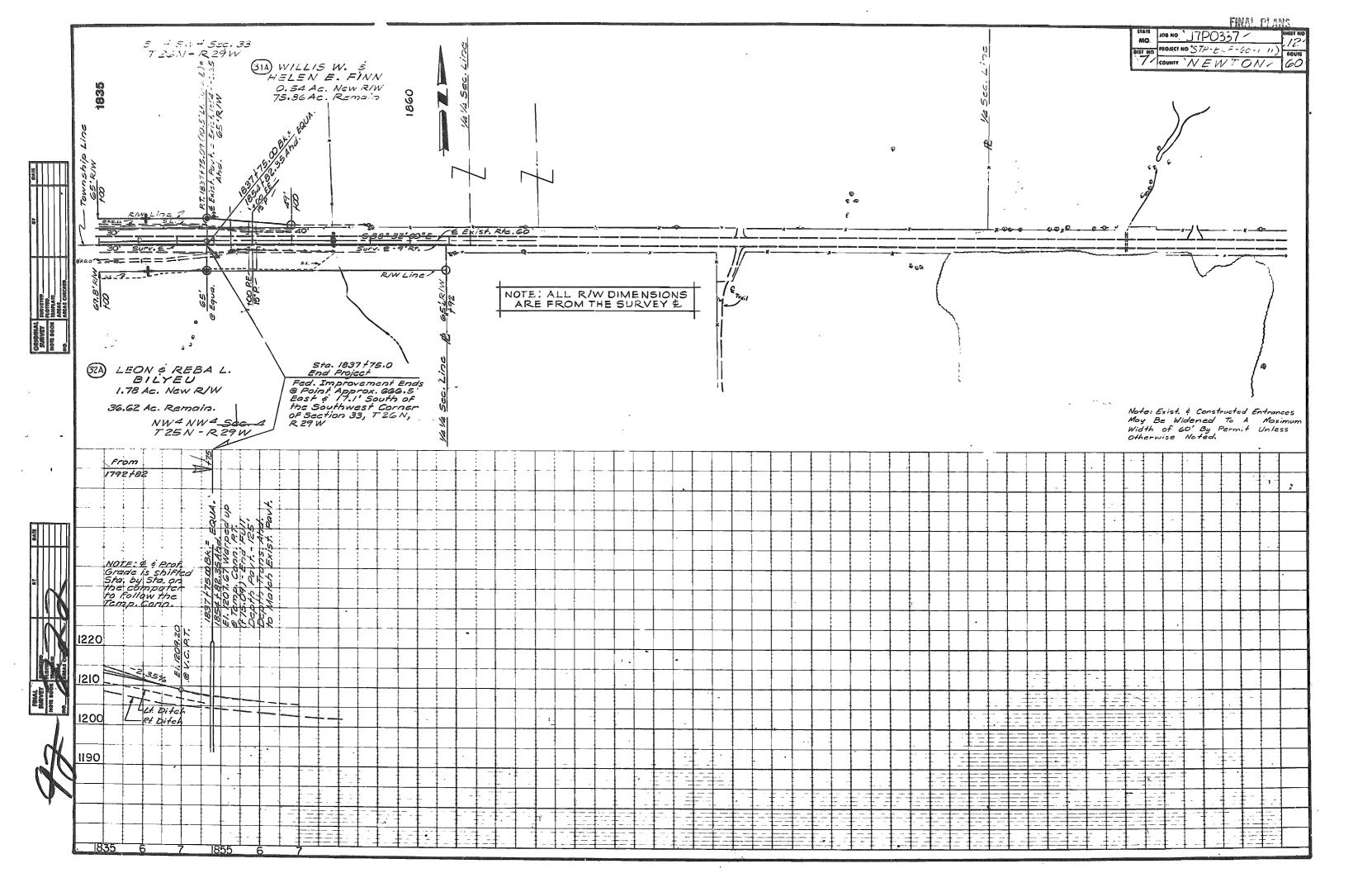




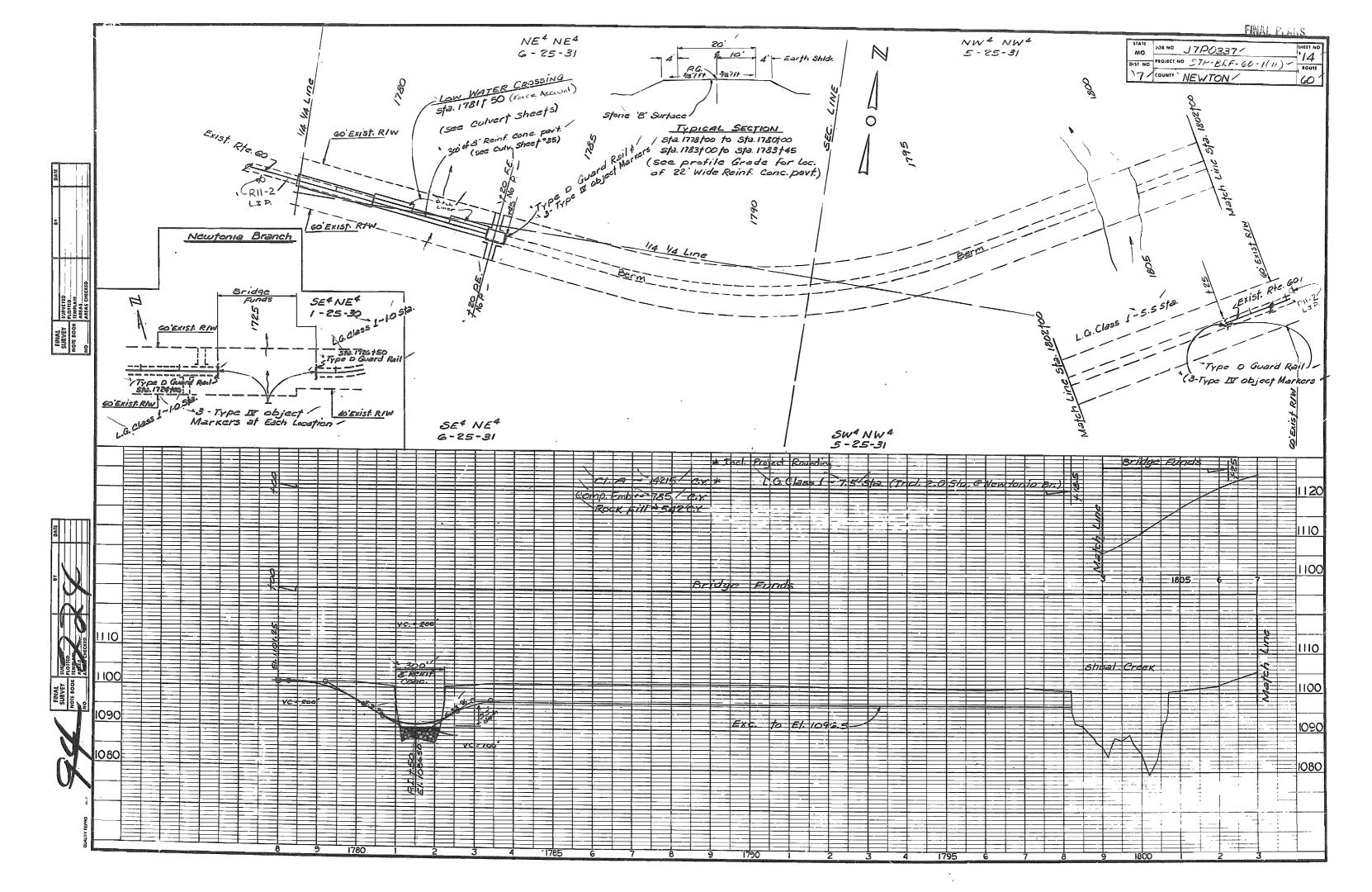






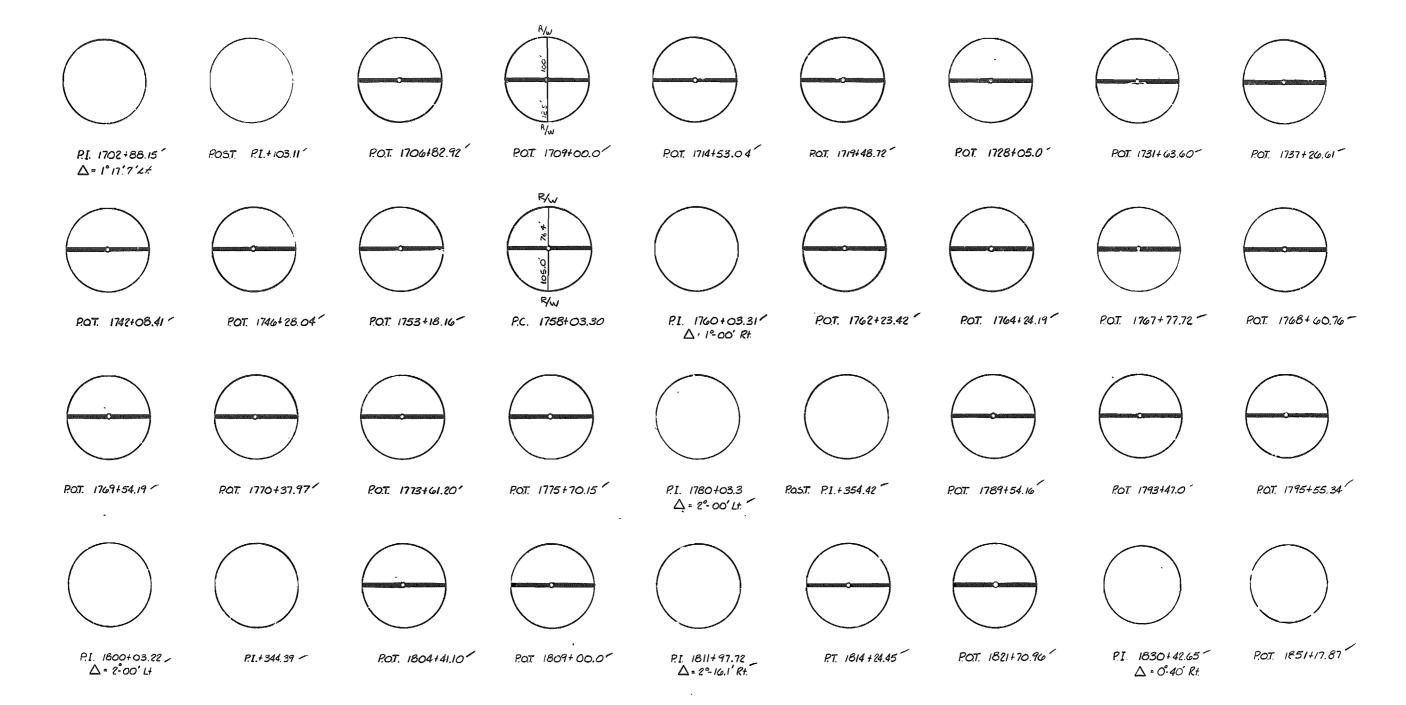


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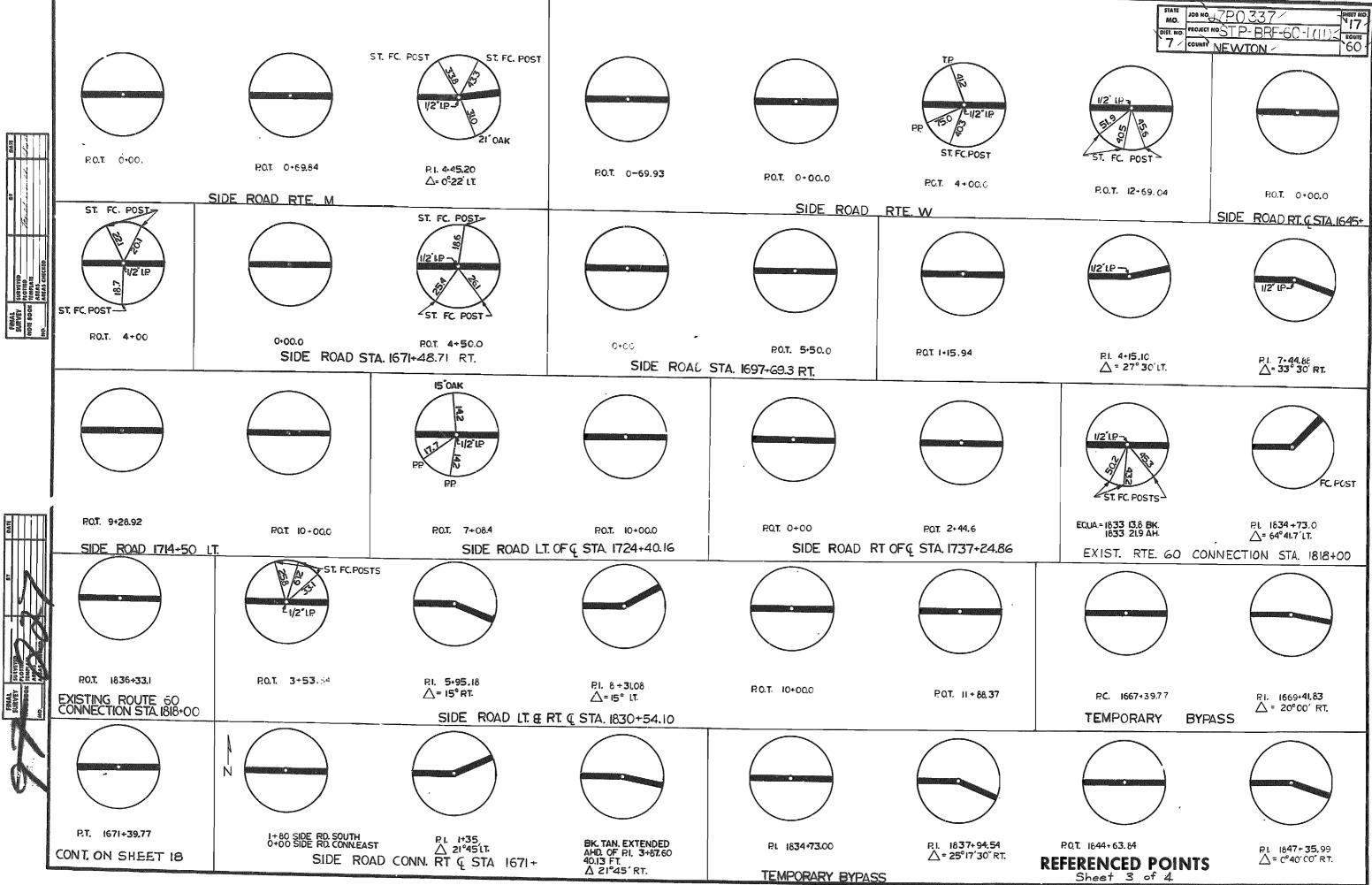


							STA MI	NO. PROJECT NO. TP-BRH-50-	
POT. 1574+15.11	RI. 1577+05.44' Δ=8°21' Rt.	P.L. 1581+23.44' \[\triangle = 8^2 \cdot 20.5' \text{ Lt.} \]	P.T. 1583+31.618K." 1583+34.71 Ahd.	POT. 1583+79.02	P.O.T. 1585+80.60	ROT. 1588450.0	P.O.T. 1590498.31	POT. 1592+03.33	
R/W 00 00 R/W P.I. 1592+48.80' \(\Delta \cdot 0^{\cdot 12'} \text{ Lt.} \)	P.O.T. 1596+71.87	P.O.T. 1601+02.93	P.O.T. 1605+43.54	P.O.T. 1605+68.60	POT. IGII+GI.68	POT. 1615+54.78	P.O.T. 1G15+43.16	POT. 1617+81.60	
P.O.T. 1627+89.46	POT. 1631+64.94	Рот. 1637+59.50	P.O.T. 1645+62.0	POT. 1654+26.13	P.O.T. 1658+27.35	POT. 1663+91.44	POT. 1667+39.77	P.O.T. 1671+56.60	
	w		· ·			P.O.T. 1679+70.94	R/W RYW P.C. 1684+56.76	P.1. 1687 + 56.78 \[\Delta = 1°-30' Rt. \]	
						PT. 1690+56.76	P.O.T. 1696+60.98	P.C. 1700+28.96	

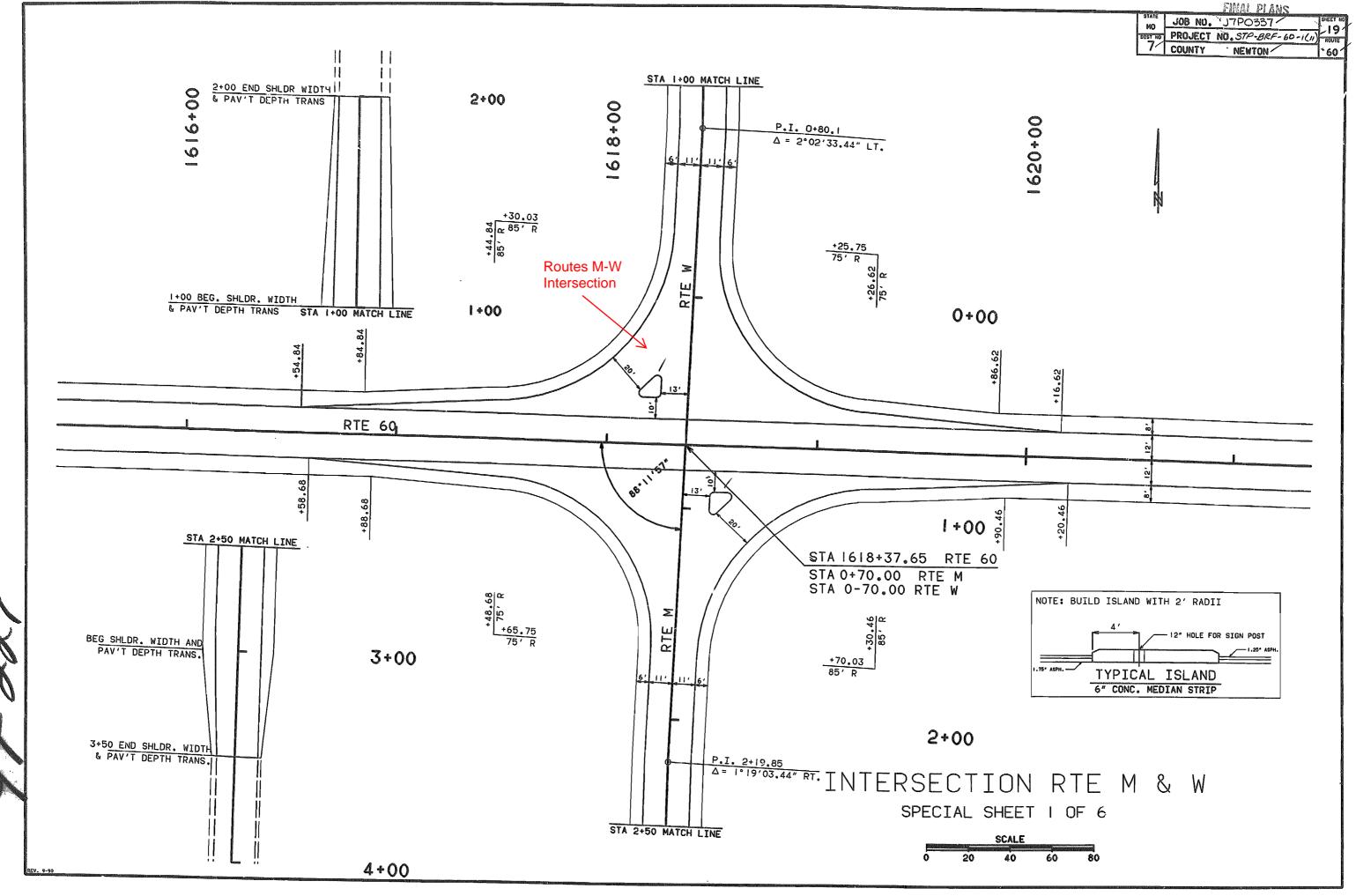
STATE MO.	JOB NO. J 7P (J 337/	SMEET NO
	PROJECT NOSTPERF-60-1(11)	BOUTE
7/	COUNTY 'NEWTON /	601







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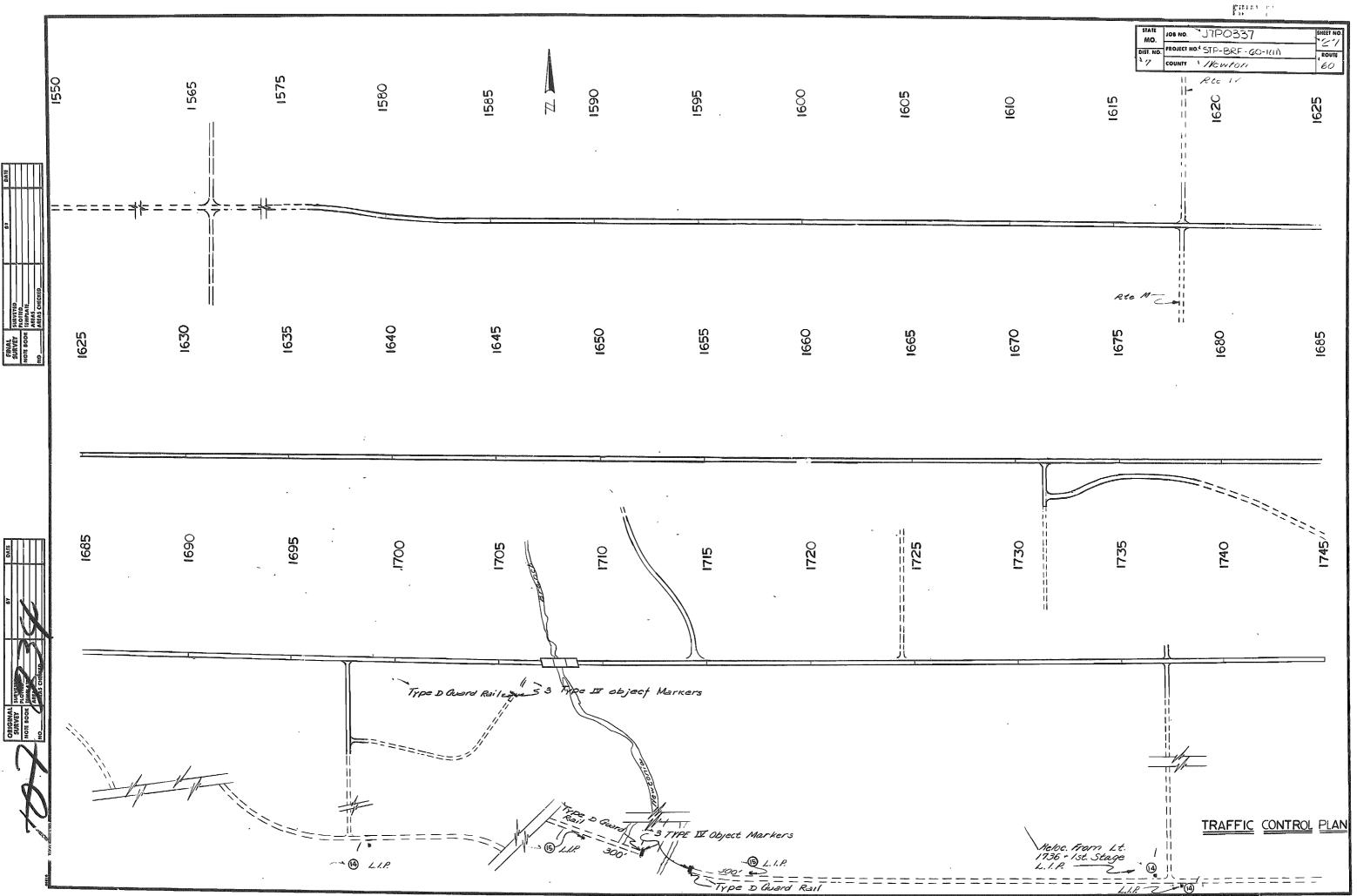
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1	Side Road Rt. Sto. 1645†4567	Side Read Profiles Special Sheet 3 of 6

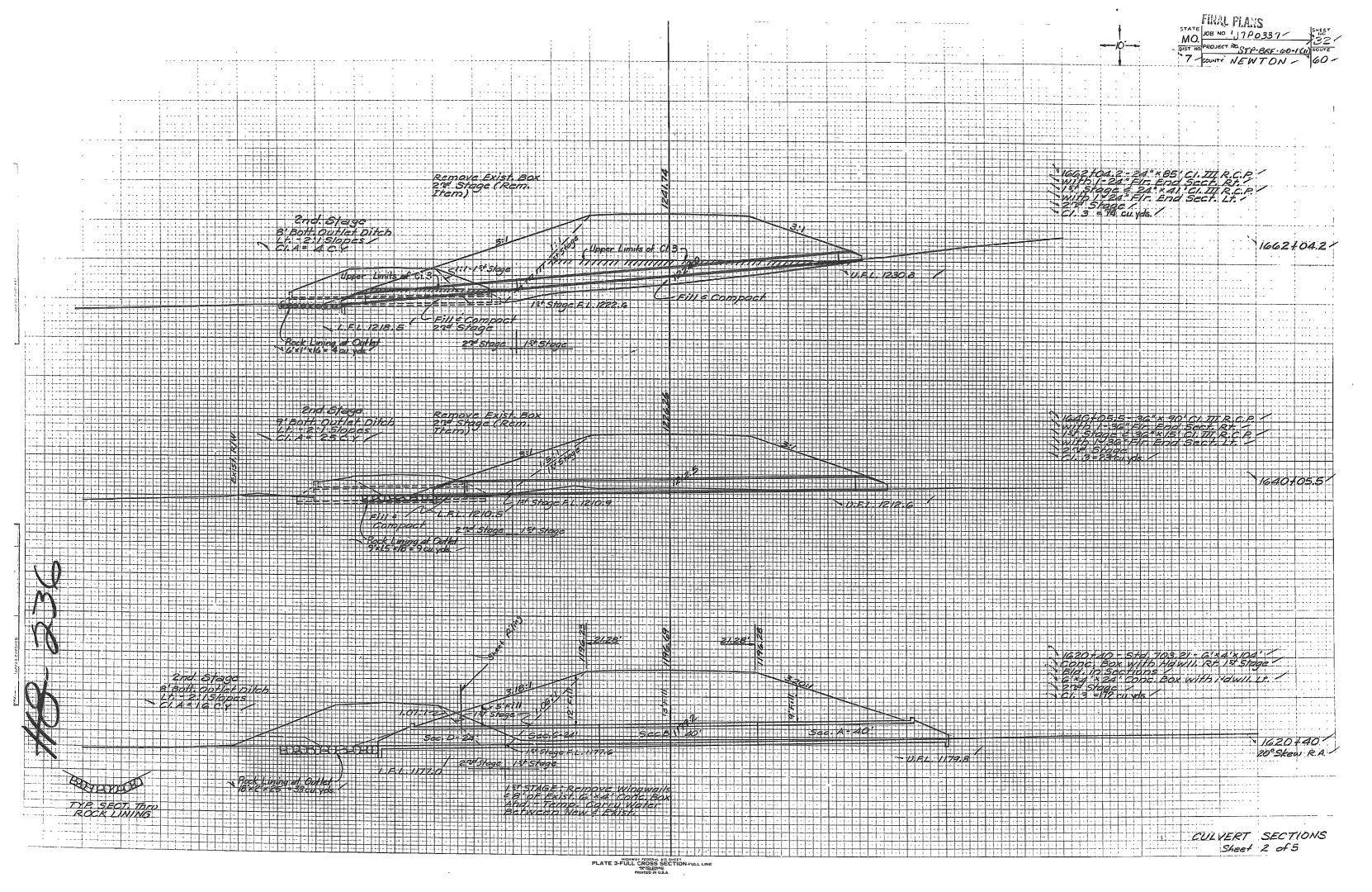
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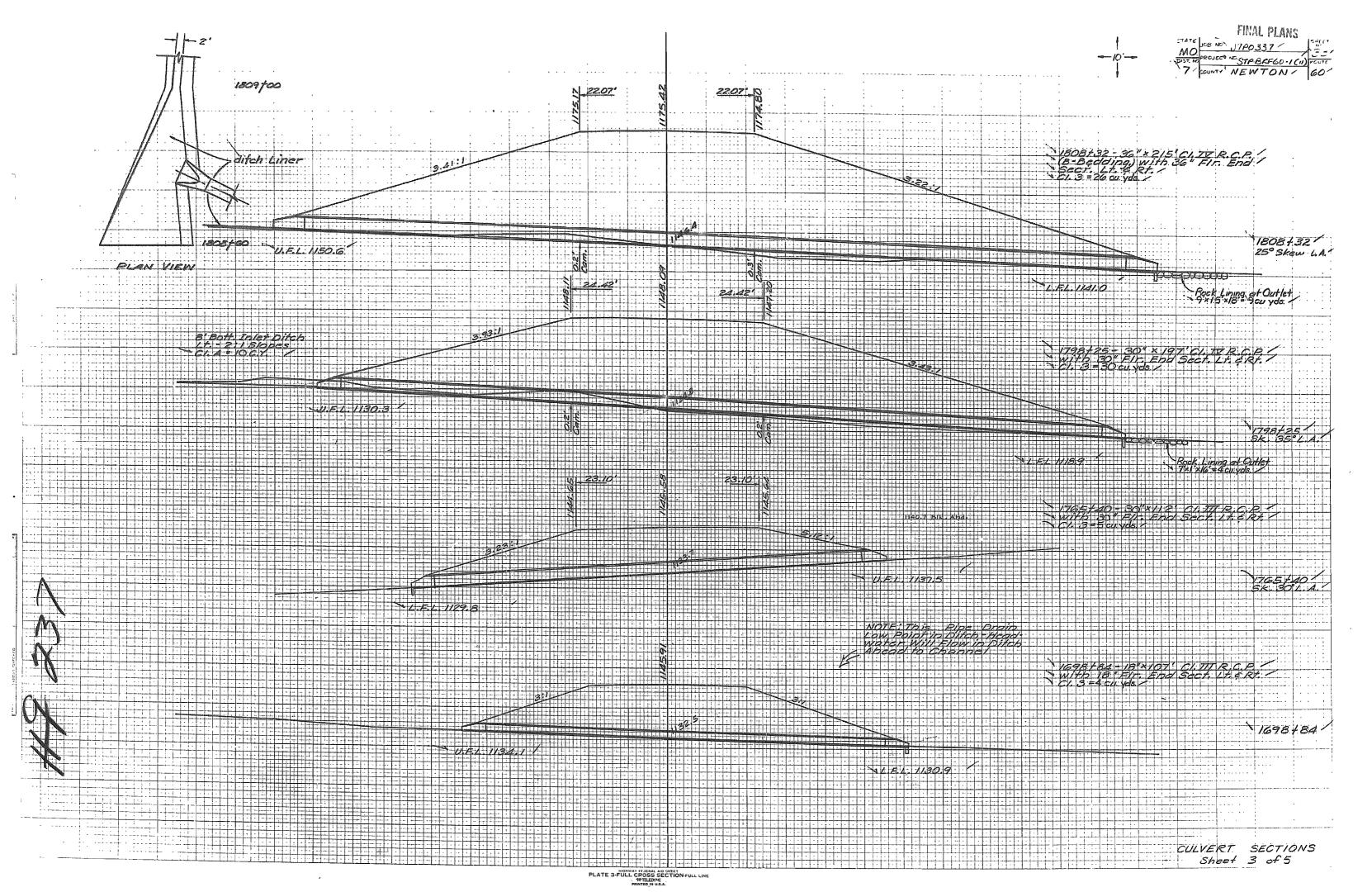
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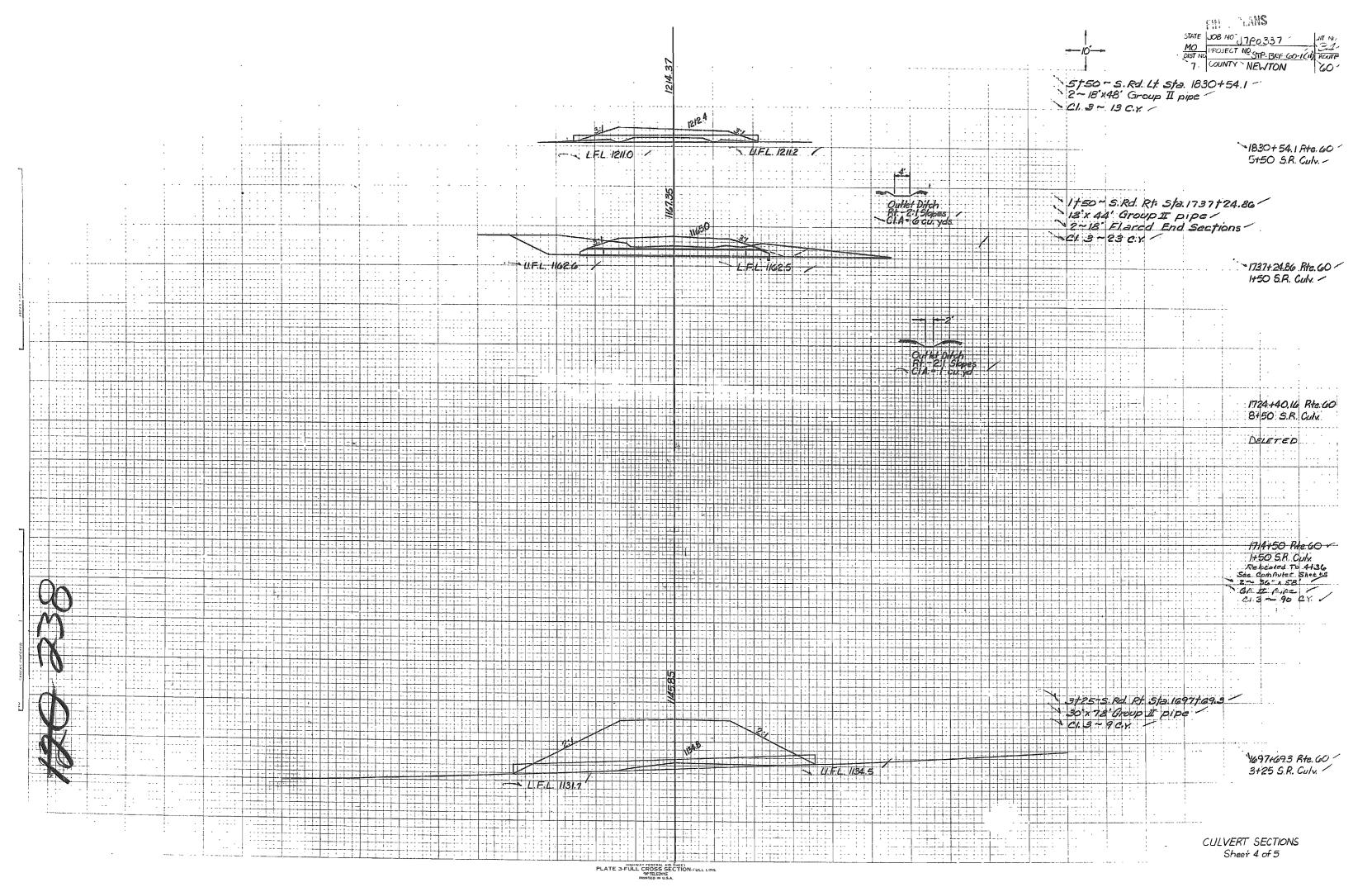
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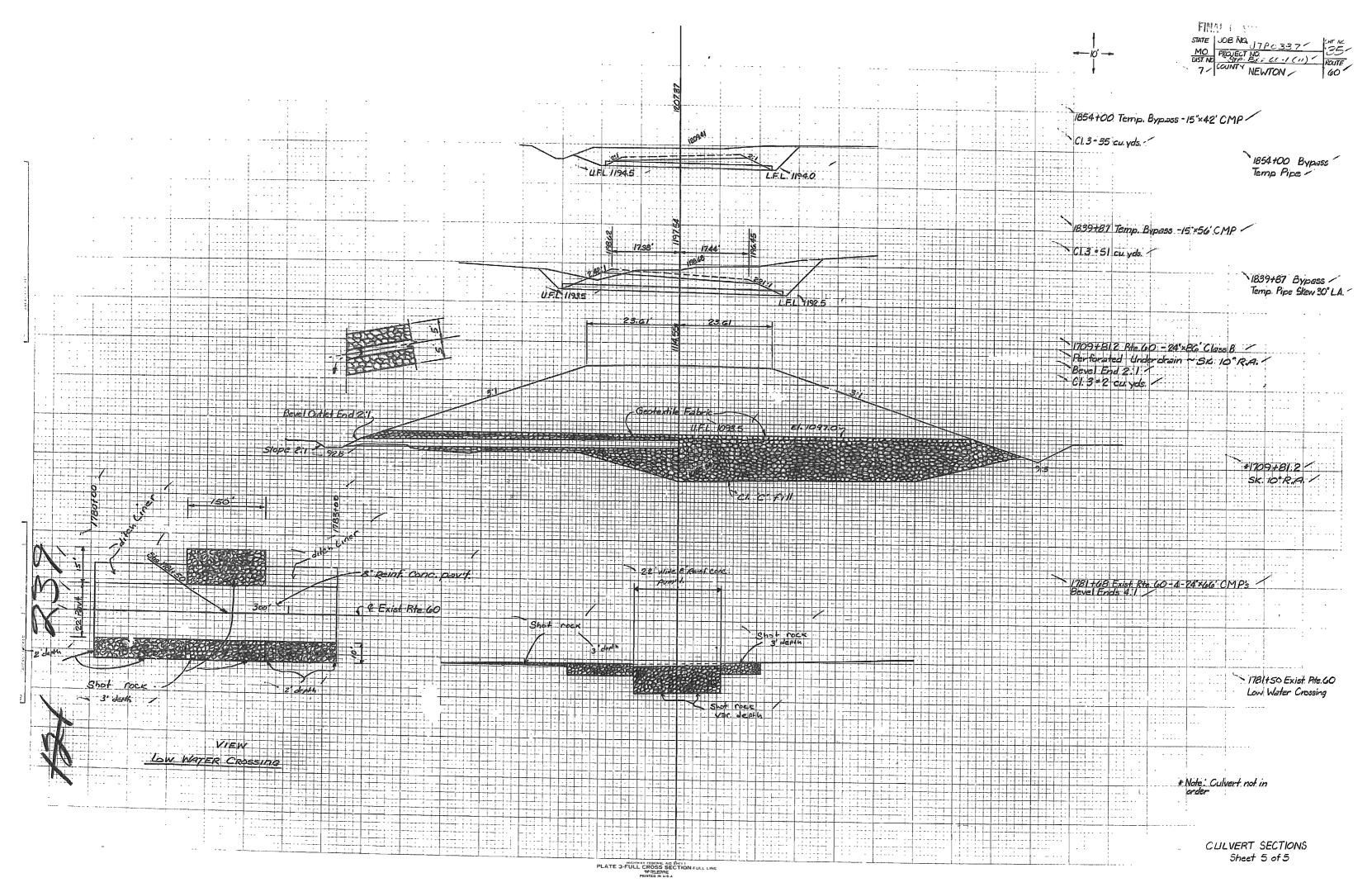
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MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION STANDARD PLANS

REVISED LAN. 1, 1992 STATE MO JOB NO.: UTPQ337 | 146 | 146 | 17 | 1992 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

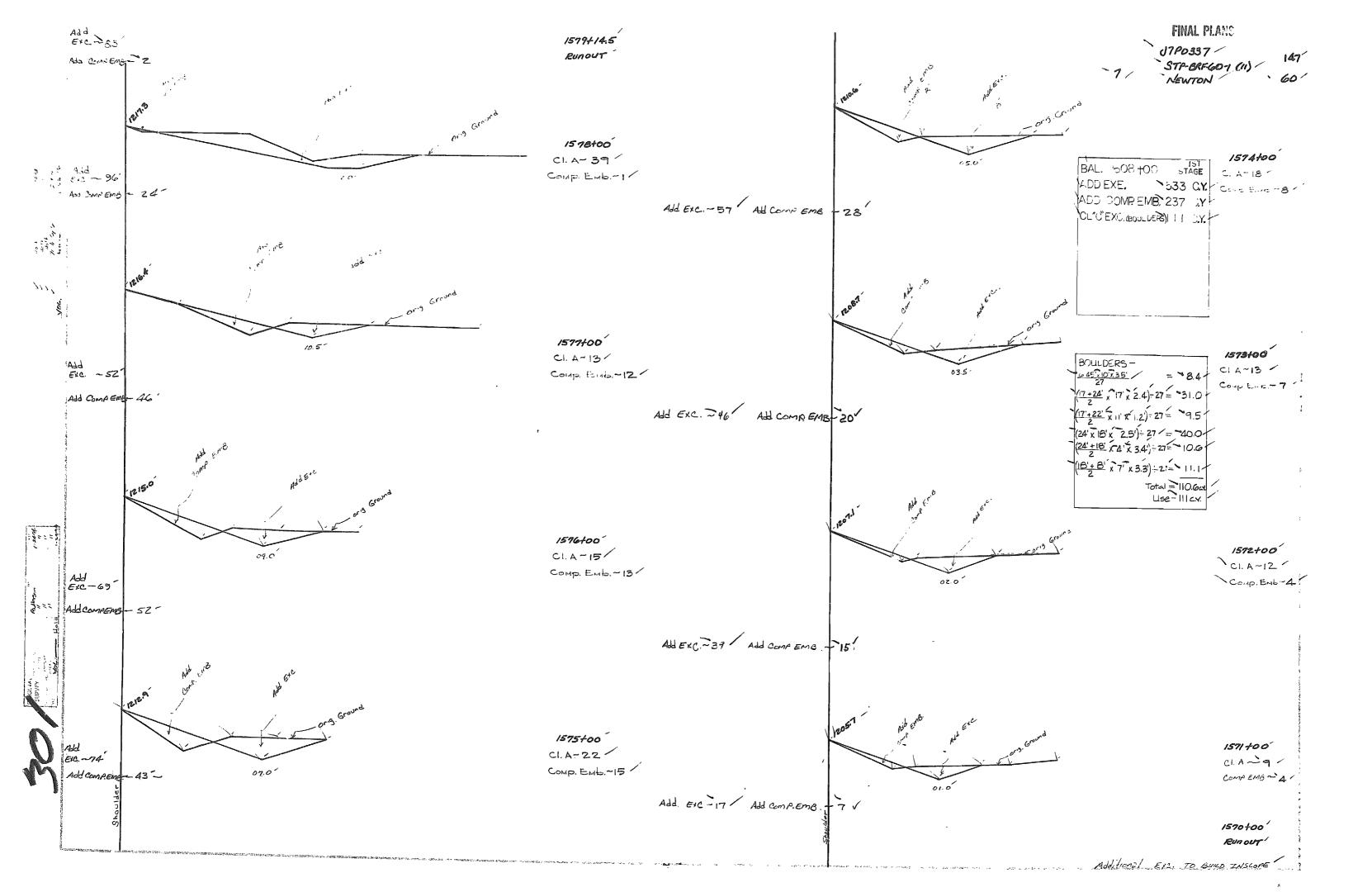
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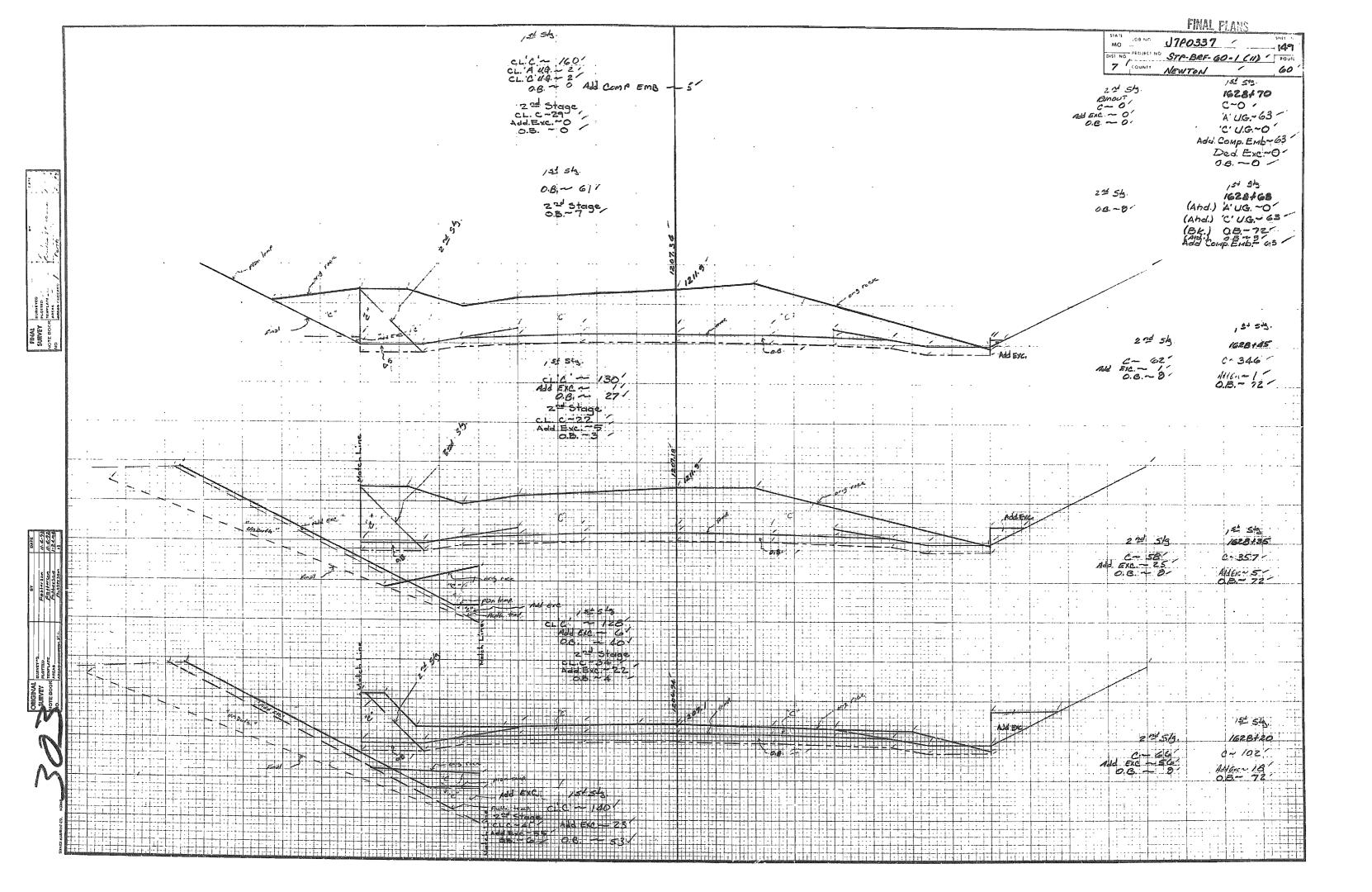
4	NO.	DESCRIPTION
	1203.00E	EXCAVATION & EMBANKMENT
The second second	203.020	UNDERGRADING
Committee of the last	203.10B	TABULATED EARTHWORK & SECTION DATA
	203.20B	SUPERELEVATION SPIRALS & WIDENING (UNDIVIDED)
	203.21B	SUPERELEVATION SPIRALS & WIDENING (UNDIVIDED)
100	203.30A	ENTRANCES & APPROACHES (LESS THAN 400 ADT)
	203.31B	ENTRANCES & APPROACHES (GREATER THAN 400 ADT - NO SAFETY
		ZONE)
	203.32D	ENTRANCES & APPROACHES (GREATER THAN 400 ADT - SAFETY
		ZONE)
	203.35A	MAILBOX TURNOUTS
	203.40E	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (OTHER THAN 6:1
		FORESLOPE)
	203.41E	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (6:1 FORESLOPE)
V	203.50J	TYPICAL CROSS-OVERS (DIVIDED HIGHWAYS)
	203.61	DRIVEWAY TYPE I
	203.62	DRIVEWAY TYPE II
	203,63	DRIVEWAY TYPE III
	203.64	DRIVEWAY TYPE IV
	203.65	DRIVEWAY TYPE Y
	204.00D	EMBANKMENT CONTROL MEASURING DEVICES
	502.00M	CONCRETE PAVEMENT & BASE APPURTENANCES
	502.10E	DOWEL SUPPORTING UNITS
H	503.00J	CONCRETE APPROACH SLABS TO BRIDGES (ALSO INCLUDE 502.00)
-	600 001	
-	602.00A	RIGHT-OF-WAY & DRAIN MARKERS
<u> </u>	604.05B	DIDE OUR VEDT LE DUNC
-	004.03B	PIPE CULVERT HEADWALLS - TYPE S
	604.10B	LEADWALE WITH ENERGY RECORDERS
-	604.11B	HEADWALL-WITH ENERGY DISSIPATOR - 18" HEADWALL-WITH ENERGY DISSIPATOR - 24"
	604.12B	HEADWALL-WITH ENERGY DISSIPATOR - 24"
	604.13B	HEADWALL-WITH ENERGY DISSIPATOR - 30"
	604.14B	HEADWALL-WITH ENERGY DISSIPATOR - 42"
	604.15B	HEADWALL-WITH ENERGY DISSIPATOR - 48"
	604.20B	DROP INLET - TYPE B
	604.21B	DROP INLET - TYPE C
	604.22B	DROP INLET - TYPE D
-	604.23B	DROP INLET - TYPE E
	604.24B	DROP INLET - TYPE EE
L	604.25C	DROP INLET - TYPE F
<u> </u>	1604,26D	DROP INLET - TYPE G
-	604.27D	DROP INLET - TYPE S (3 SHEETS)
-	604.28E	DROP INLET - TYPE T (ALSO INCLUDE 614.30)
\vdash	604.29C	DROP INLET - TYPE X
ļ	604.40E	CONCRETE MANHOLES (ALSO INCLUDE 614.30)
	~~~~~~	PIPE COLLARS
	605.10A	CLASS A UNDERDRAINS
		OCHOO A GINDERDRATING
V	606.00X	GUARD RAIL (6 SHEETS)
		TOTAL (O OFFEE(S)
V	606.22K	BRIDGE ANCHOR SECTION (SAFETY BARRIER CURB ON BRIDGE)
		(ALSO INCLUDE 606.00)
	606.230	BRIDGE ANCHOR SECTION (THRIE BEAM RAIL ON BRIDGE) (ALSO
		INCLUDE 606.00)
	606.30E	TERMINAL SECTION (ALSO INCLUDE 606.00)
	606.40A	GUARD CABLE
-	607.10R	CHAIN LINK FENCE
	607.11B	CHAIN LINK FENCE FOR RETAINING WALLS
	607.20F	WOVEN WIRE FENCE (ALSO INCLUDE 607.10)

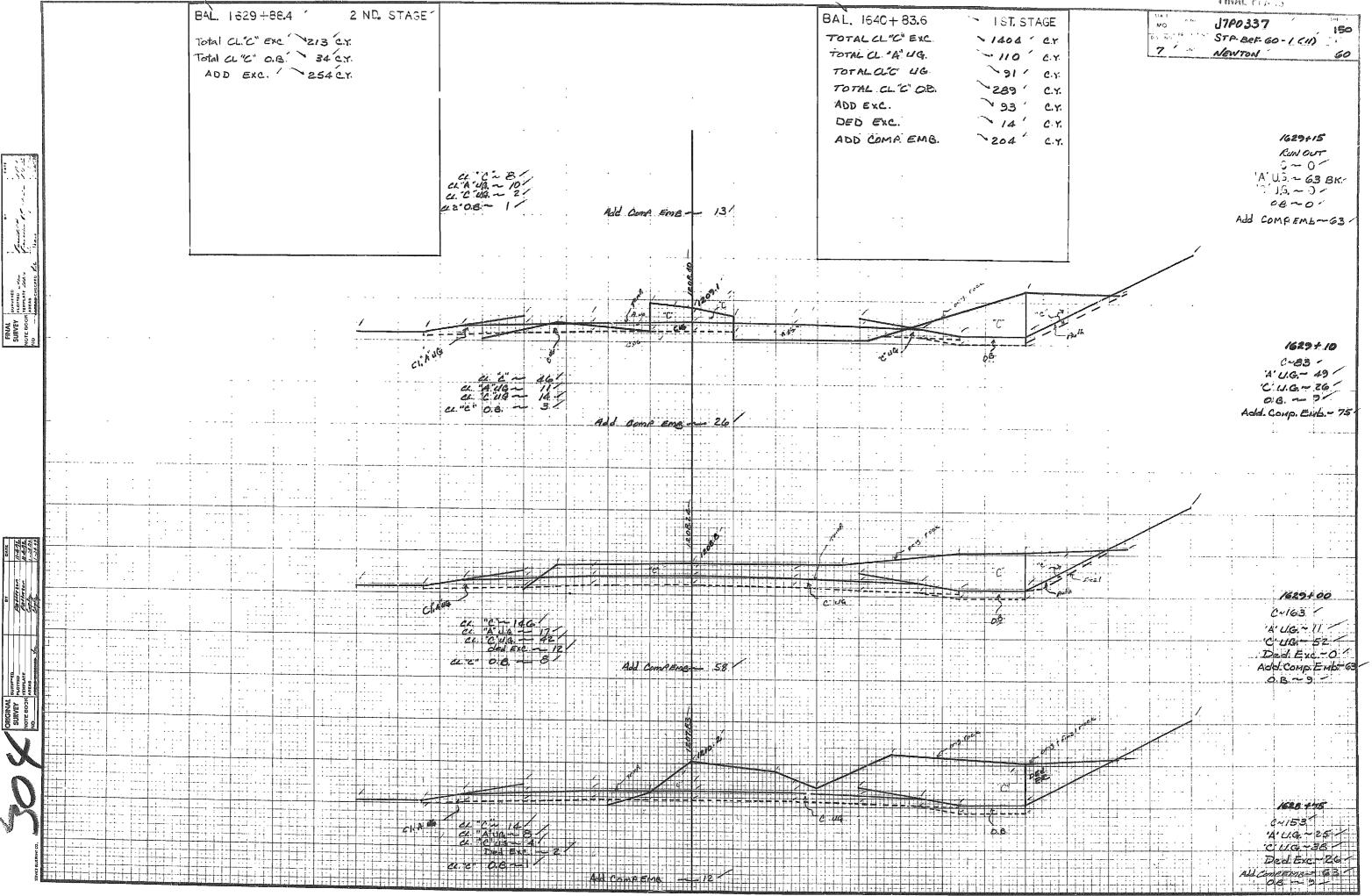
4	NO.	DESCRIPTION
	608.00C	PAVED APPROACHES
	608.10G	CONCRETE SIDEWALK & WHEELCHAIR RAMPS
	608.20C	CONCRETE STEPS
<u></u>	609.00G	CONCRETE CURB - CURB & GUTTER - GUTTER
-	609.15B	PAVED DITCHES
	609.40D	DRAIN BASIN, SHOULDER PAVING & FILL SLOPE AT BRIDGE ENDS
		DITCH LINER
L	Commence of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the la	ROCK LINING FOR CULVERT OUTLETS
-	610.20E	
-	612.10K	CONCRETE SLOPE PROTECTION  BARRICADES AND FLASHER SIGNS
-	613.00B	PAVEMENT REPAIR
$\vdash$	614.10R	CURB INLETS, GRATES & BEARING PLATES
	614.30D	MANHOLE FRAMES & COVERS
	615.00A	OFFICE FOR ENGINEER
V	616.10M	TRAFFIC CONTROL DEVICES (3 SHEETS) (ALSO INCLUDE 903 OL)
	617.00W	CONCRETE TRAFFIC BARRIER (3 SHEETS)
	702.01F	16" CONCRETE PILES (APPROVED TYPES) (2 SHFFTS)
	702.02B	CAST-IN-PLACE CONCRETE PILES (APPROVED TYPES)
<b> </b>	707 0:5	
	703.21E	CONCRETE BOX CULVERTS, H20 LOADING (3 SHEETS)(FLARED
-	703.24E	WINGS) (INCL 706.35)
<b>—</b>	103.245	CONCRETE BOX CULVERTS, SKEW DATA (703.30)(INCL 706.35)
F	703.25E	CONCRETE BOX CULVERTS, SKEW DATA (703.21)(3 SHTS)
		(FLRD WINGS) (INCL 706.35)
	703.305	CONCRETE BOX CULVERTS, 4' SPANS & LESS-ALL LOADING
		(INCL 706.35)
	703.35B	CONC' (E BOX CULVERTS, CUTTING DETAILS (STRAIGHT WINGS)
		(INC. 706.35)
	703.36A	CONCRETE BOX CULVERTS, CUTTING DETAILS (FLARED WINGS)
<u></u>		[ (INCL 706.35)
$\vdash$	703.50H	CONCRETE DOUBLE BOX STRUCTURE-SQUARE (INCL 706.35)
$\vdash$	703.51G	CONCRETE DOUBLE BOX STRUCTURE-SKEWED (INCL 706.35)
$\vdash$	703.52D 703.54E	CONCRETE DOUBLE BOX STRUCTURE-CUT SECTIONS (INCL 706.35)
-	700.045	DOUBLE BOX STRUCTURE REINFORCEMENT-H20 OR HS20 LOADING (8 SHEETS)
	703.55E	CONCRETE DOUBLE BOX STRUCTURE (FLARED WINGS) SQUARE
	7.50,001	(INCL 706.35)
	703.56E	CONCRETE DOUBLE BOX STRUCTURE (FLARED WINGS) SKEWED
		(INCL 706.35)
	703.60C	CONCRETE BOX STRUCTURE-PIPE INLET
$\perp$	703.70D	CONCRETE TRIPLE BOX STRUCTURE-SQUARE (2 SHEETS)
$\vdash$	707 7:-	(INCL 706.35)
	703.7ID	CONCRETE TRIPLE BOX STRUCTURE-SKEWED (2 SHEETS)
$\vdash$	703.72D	(INCL 706.35)
	100.120	CONCRETE TRIPLE BOX STRUCTURE-(FLARED WINGS)(SQUARE) (2 SHEETS)(INCL 706.35)
	703.73D	CONCRETE TRIPLE BOX STRUCTURE-(FLARED WINGS)(SKEWED)
$\vdash$		(2 SHEETS) (INCL 706.35)
	703.74D	CONCRETE TRIPLE BOX STRUCTURE-CUT SECTIONS (INCL
		_706.35)
	703.76B	CONCRETE TRIPLE BOX STRUCTURE REINFORCEMENT-H20 OR HS20
$oxed{oxed}$		LUADING (5 SHEETS)
إحا	706.30E	REINFORCING BAR SUPPORTS
1	706.35E	BAR SUPPORTS FOR CONCRETE REINFORCEMENT
ldash	712.40E	STEEL DAMS FOR BRIDGES (6" CHANNEL)
	725.31C	METAL CURTAIN WALL AND METAL THIFTS
1	726.30C	CULVERT INSTALLATION METHODS
$\vdash \vdash$	731.00S 731.10K	PRECAST MANHOLES (ALSO INCL 614.30)
	/31.1UK	PRECAST DROP INLETS (4 SHTS)(ALSO INCL 614.30 & 614.10)
$\vdash \vdash \vdash$		
lana management		

Eggen Character states		
4	NO.	DESCRIPTION
		FLARED END SECTION (2 SHEETS)
K	806.02A	STAPLE PLACEMENT FOR PLASTIC NETTING
		HIGHWAY LIGHTING
	901.00P	POLES & APPURTENANCES-30' (3 SHEFTS)
	901.010	POLES & APPURTENANCES-45' (3 SHFFTS)
<u> </u>	901.05A	CONTROL PANEL CABINET DETAILS (2 SHEETS) (SEE NOTE)
<u> </u>	901.120	PULE MOUNT CONT STA-SECONDARY SERV-480 V MULTI CIR (NOT
<b>-</b>	001 155	( METERED)
├	901.15E	POLE MOUNT CONT STA-SEC SERV-120,240, & 480 V MULTI CIR
	901.16D	POLE MOUNT CONT STA-SEC SERV-480 V MILTT CTD (METEDEN)
	901.18D	POLE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR
	901.19D	POLE MOUNT CONT STA-SEC SERV-240 V MULTI CIR (NOT
	901.20D	METERED)
├	901.200	POLE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR (SIG
	901.22E	METERED)
<u> </u>	301.22E	POLE MOUNT CONT STA-SEC SERV-120/240 & 480 V MULTI CIR (BOTH METERED)
	901.23E	
_	901.24D	POLE MOUNT CONT STA-SEC SERV-240 V MULTI CIR (METERED)
_	2016240	POLE MOUNT CONT STA-SEC SERV-240 V MULTI CIR (LIGHTS & SIGNALS-BOTH METERED)
<u> </u>	901.25D	BASE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR
_	7018200	DASE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR
_		NOTE: ALSO INCLUDE 901.05 WITH 901.12 THROUGH 901.25 EXCEPT 901.18
Н	7/11/1	10111 ALSO INCLODE 901.05 WITH 901.12 THROUGH 901.25 EXCEPT 901.18
		TRAFFIC SIGNALS
	902.00F	SIGNAL HEADS, LENSES AND MOUNTING
	902.10J	PULL BOXES, CONTROLLERS, COND LOCATION
	902.15D	POWER SUPPLY ASSEMBLY
	902.21B	TELEPHONE INTERCONNECT
		CONCRETE BASES
	902.40J	TUBULAR STEEL POST
	902.50F	DETECTORS
	902.60F	SPAN WIRE DETAILS-STEEL POST
	902.70D	SPAN WIRE DETAILS-WOOD POLE
	902.80A	TRAFFIC SIGNAL SYMBOLS
		HIGHWAY SIGNING
V		ALPHABETS (2 SHEETS)
	903.02Y	HIGHWAY SIGNING (7 SHEETS)
LY		SIGN MOUNTING DETAILS (5 SHEETS)
<del>  </del>	903.04D	WEIGH STATION SIGNING
	903.05C	TUBULAR SPAN SUPPORT-ONE TUBE, TYPE S
<u> </u>	903.060	TUBULAR SPAN SUPPORT-TWO TUBE, TYPE S
	903.07C	TUBULAR CANTILEVER SUPPORTS, TYPE C
	903.080	TUBULAR BUTTERFLY SUPPORTS, TYPE B
	903.090	LIGHTING SUPPORT BRACKET
$\vdash$	903,101	SIGN TRUSSES-OVERHEAD ALUMINUM (8 SHEETS) (INCL 903.03)
┝╼┩	903.12N	SIGN TRUSSES-BUTTERFLY & CANTILEVER-STEEL (7 SHEETS)
<del>  </del>	907 600	(INCL 903.03)
	903,608	SIGN TRUSSES-OVERHEAD STEEL (7 SHEETS)(INCL 903.03)
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NOTES: PLANS FOR THIS PROJECT WERE DEVELOPED USING DRAWINGS FROM THIS INDEX







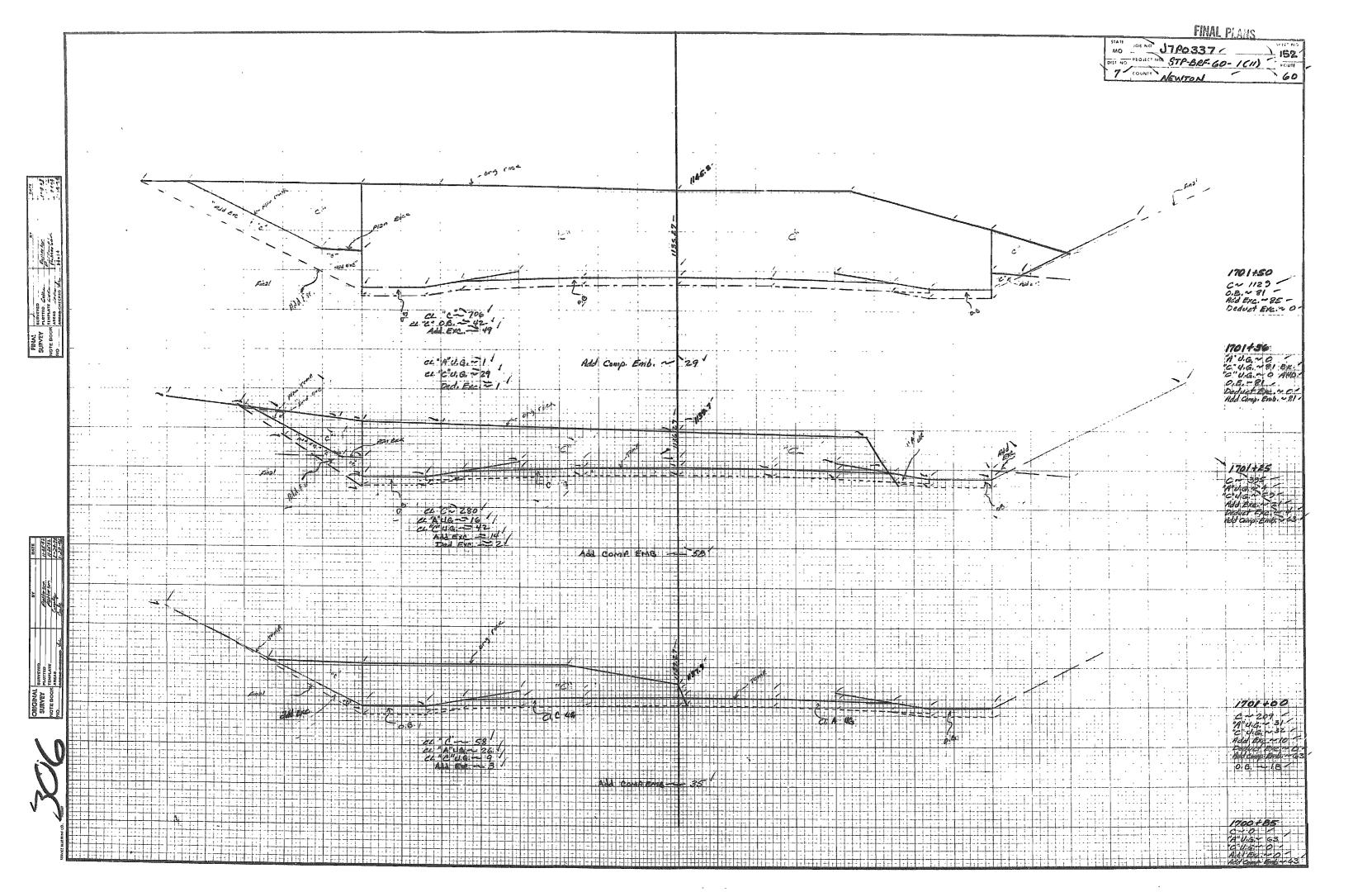
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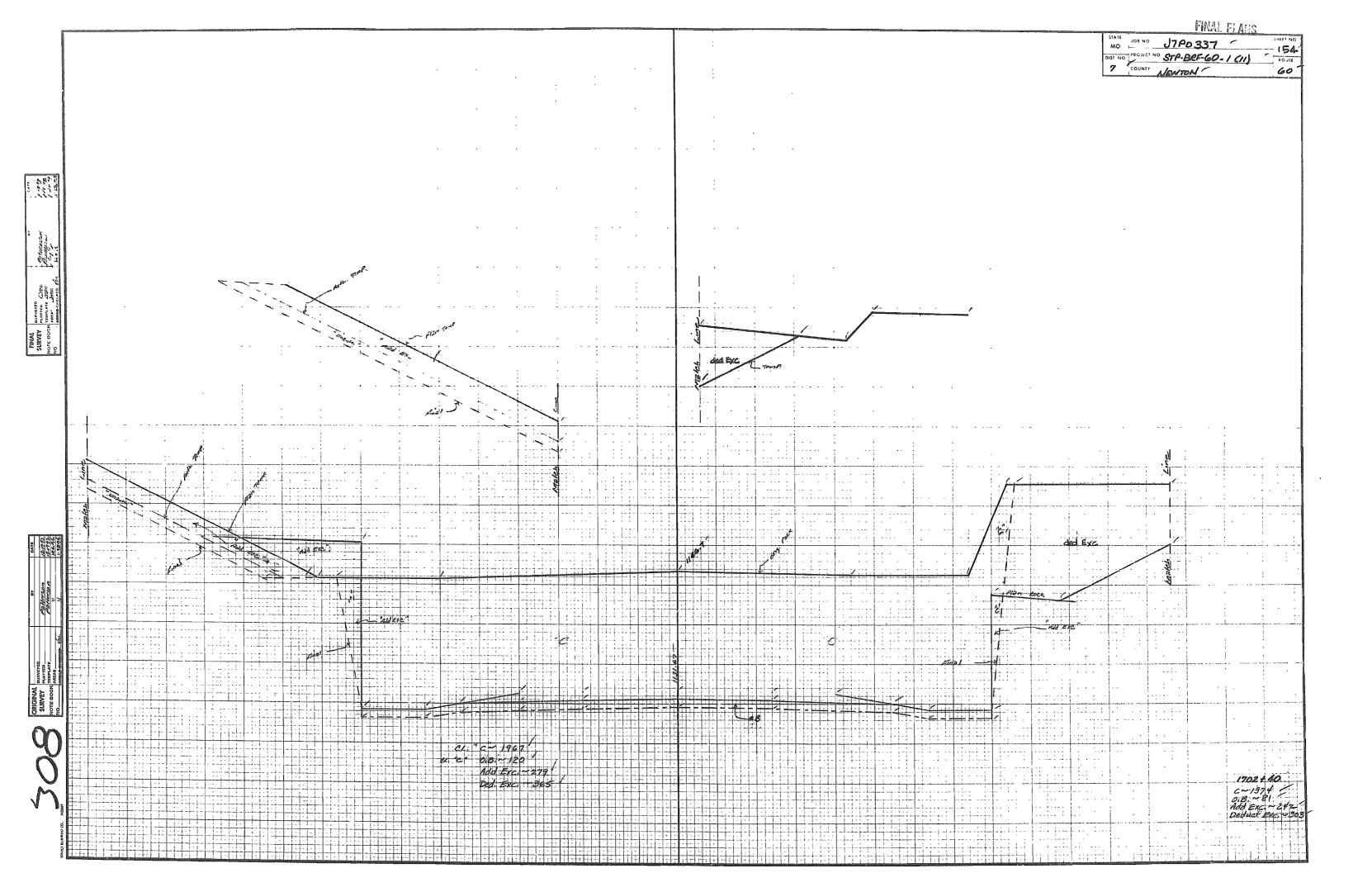
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| 8.0 × 8.0 × 2.0 ÷ 27 = 4.7 C.Y. |
| 28.0 × 13.0 × 1.4 ÷ 27 = 18.9 C.Y. |
| 29.0 × 13.0 × 2.3 ÷ 27 = 32.1 C.Y. |
| 34.0 × 12.0 × 1.0 ÷ 27 = 15.1 C.Y. |
| 35.0 × 7.0 × 3.0 ÷ 27 = 27.2 C.Y. |
| 70 × 7.0 × 4.0 ÷ 27 = 17.6 C.Y. |
| 13.0 × 8.0 × 3.0 ÷ 27 = 17.6 C.Y. |
| 13.0 × 8.0 × 3.0 ÷ 27 = 17.6 C.Y. |
| 14.0 × 7.0 × 4.9 † 27 = 17.8 C.Y. |
| 14.0 × 7.0 × 4.9 † 27 = 17.8 C.Y. |
| 14.0 × 7.0 × 4.9 † 27 = 17.8 C.Y. |
| 16.0 × 10.0 × 1.9 † 27 = 11.3 C.Y. |
| 16.0 × 10.0 × 1.9 † 27 = 11.3 C.Y. |
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| 16.0 × 10.0 × 6.0 ÷ 27 = 42.0 C.Y. |
| 27.0 × 10.0 × 4.2 ÷ 2.7 = 42.0 C.Y. |
| 28.0 × 10.0 × 6.0 ÷ 27 = 62.2 C.Y. |
| 37.0 × 16.0 × 6.4 ÷ 27 = 18.0 C.Y. |
| 34.0 × 8.0 × 4.0 ÷ 27 = 18.0 C.Y. |
| 34.0 × 8.0 × 4.0 ÷ 27 = 18.0 C.Y. |
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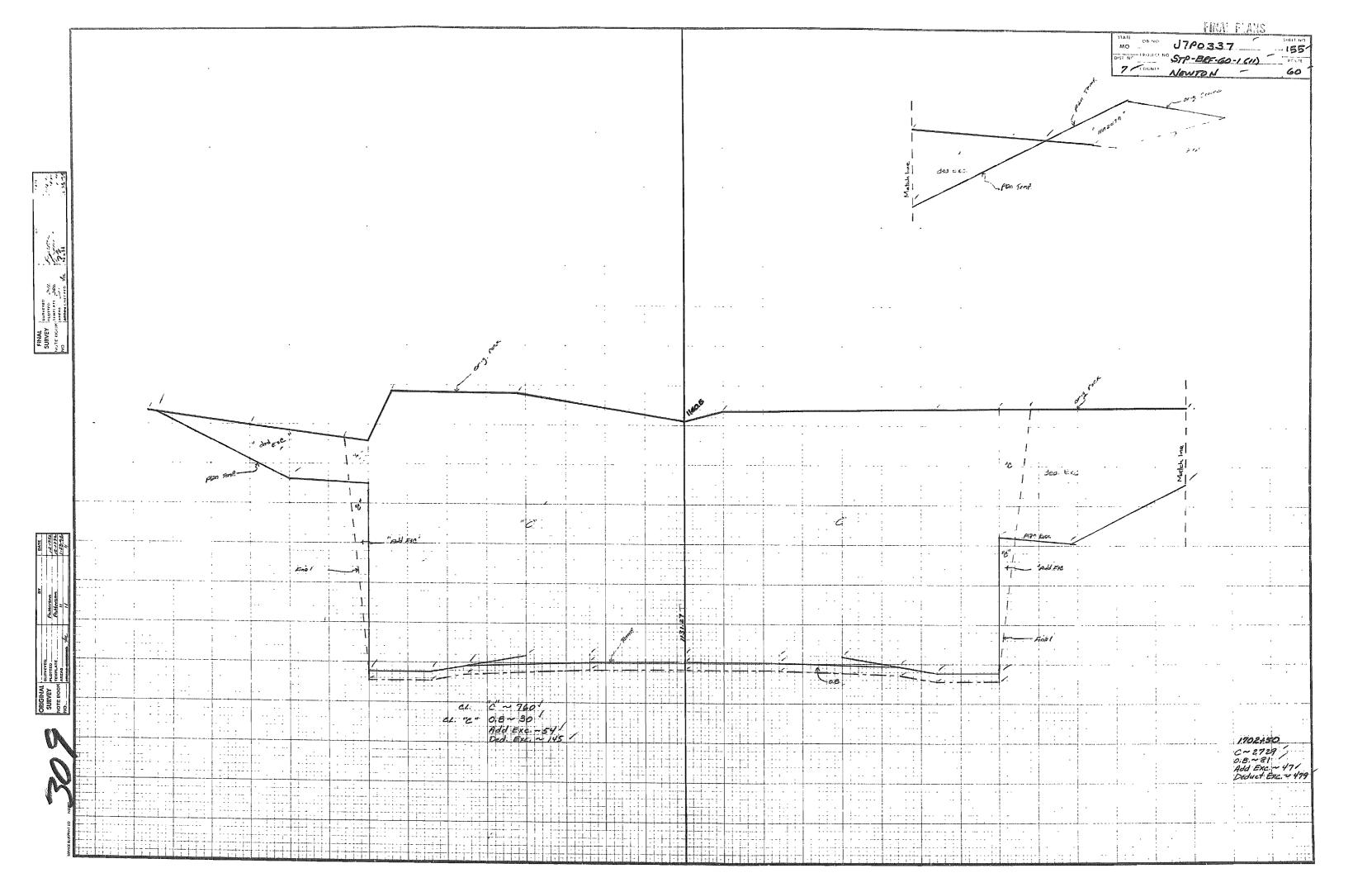
| Sta. to Sta. | 1684+ to 1688+ | 8.0 × 8.0 × 2.0 ÷ 27 = 4.7 C.Y. | 28.0 × 13.0 × 1.4 ÷ 27 = 18.9 C.Y. | 29.0 × 13.0 × 2.3 ÷ 27 = 32.1 ° C.Y. | 29.0 × 13.0 × 3.5 ÷ 27 = 48.9 ° C.Y. | 29.0 × 13.0 × 3.5 ÷ 27 = 48.9 ° C.Y. | 35.0 × 7.0 × 3.0 ÷ 27 = 7.3 ° C.Y. | 7.0 × 7.0 × 4.0 ÷ 27 = 7.3 ° C.Y. | 13.0 × 8.0 × 3.0 ÷ 27 = 11.6 ° C.Y. | 12.0 × 5.0 × 5.2 ÷ 27 = 11.6 ° C.Y. | 12.0 × 7.0 × 4.9 ÷ 27 = 11.6 ° C.Y. | 14.0 × 7.0 × 4.9 ÷ 27 = 11.3 ° C.Y. | 16.0 × 10.0 ° × 1.9 ÷ 7.2 * 11.3 ° C.Y. | 11.0 × 11.0 ° × 4.1 ÷ 27 = 18.4 ° C.Y. | 27.0 × 10.0 ° × 4.2 ÷ 27 = 42.0 ° C.Y. | 27.0 × 10.0 ° × 6.0 ÷ 27 = 202.3 ° C.Y. | 28.0 × 10.0 ° × 6.0 ÷ 27 = 41.3 ° C.Y. | 37.0 × 16.0 × 6.4 ÷ 27 = 140.3 ° C.Y. | 37.0 × 16.0 × 6.4 ÷ 27 = 140.3 ° C.Y. | 37.0 × 13.0 × 4.0 ÷ 27 = 25.0 ° C.Y. | 13.0 × 13.0 × 4.0 ÷ 27 = 25.0 ° C.Y. | 13.0 × 24.0 × 2.0 ÷ 27 = 32.0 ° C.Y. | 18.0 × 24.0 × 2.0 ÷ 27 = 32.0 ° C.Y. | 8.0 × 24.0 × 2.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 24.0 × 2.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 24.0 × 2.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 24.0 × 2.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 24.0 × 2.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 24.0 × 2.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 7.0 × 3.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 7.0 × 3.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 7.0 × 3.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 7.0 × 3.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 7.0 × 3.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 7.0 × 3.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 7.0 × 3.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 7.0 × 3.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 7.0 × 3.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 7.0 × 3.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 7.0 × 3.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 7.0 × 3.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 7.0 × 3.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 7.0 × 3.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 7.0 × 3.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 7.0 × 3.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 7.0 × 3.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 7.0 × 3.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 7.0 × 3.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 7.0 × 3.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 7.0 × 3.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 7.0 × 3.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 7.0 × 3.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 7.0 × 3.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 7.0 × 3.0 ÷ 27 = 6.2 ° C.Y. | 8.0 × 7.0 × 7.0 × 7.0 × 7.0 × 7.0

BAL. 1688 +73 (BOULDERS) IST. STAGE
CLASS C EXC.
876 CY.

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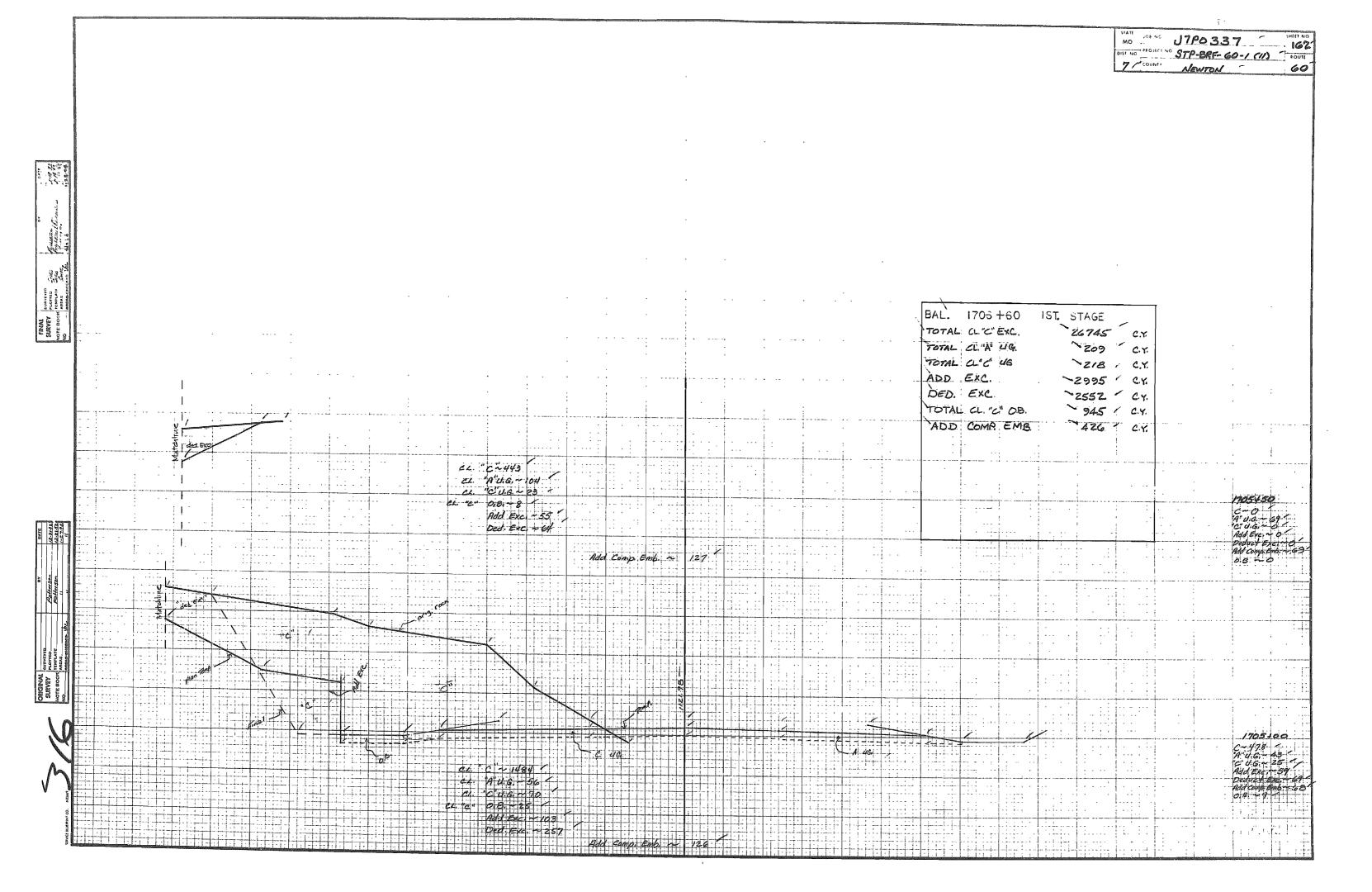


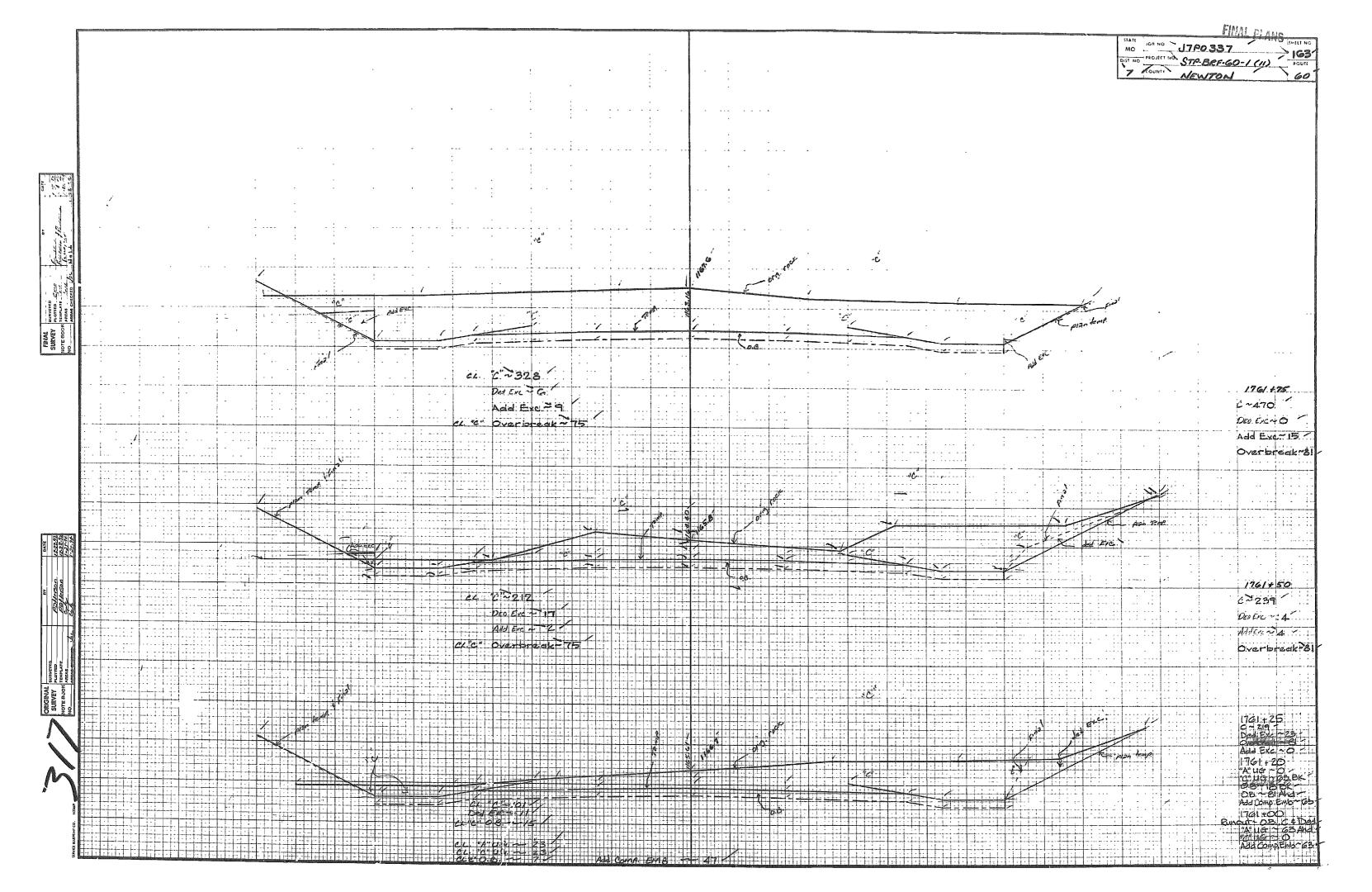


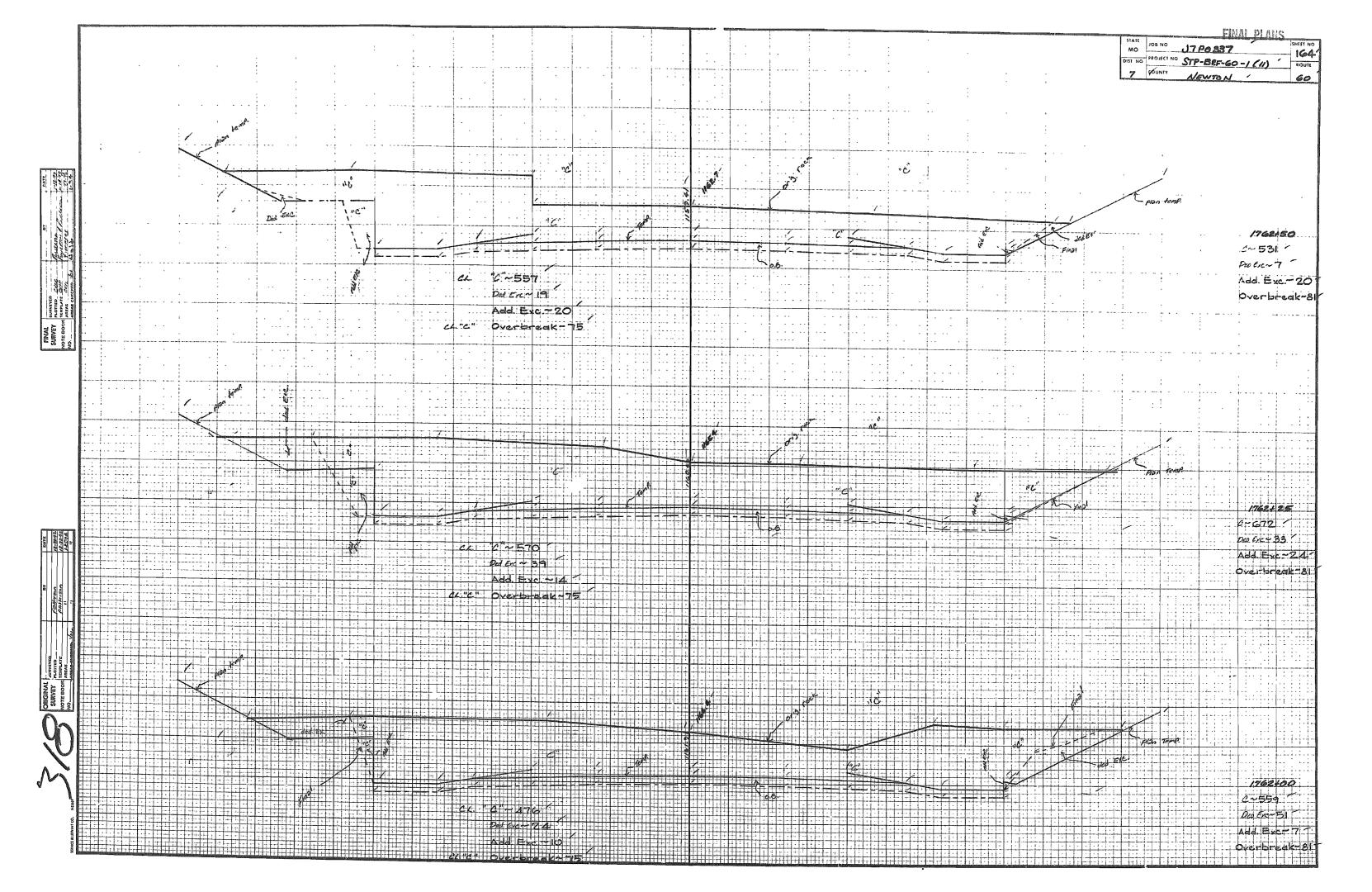


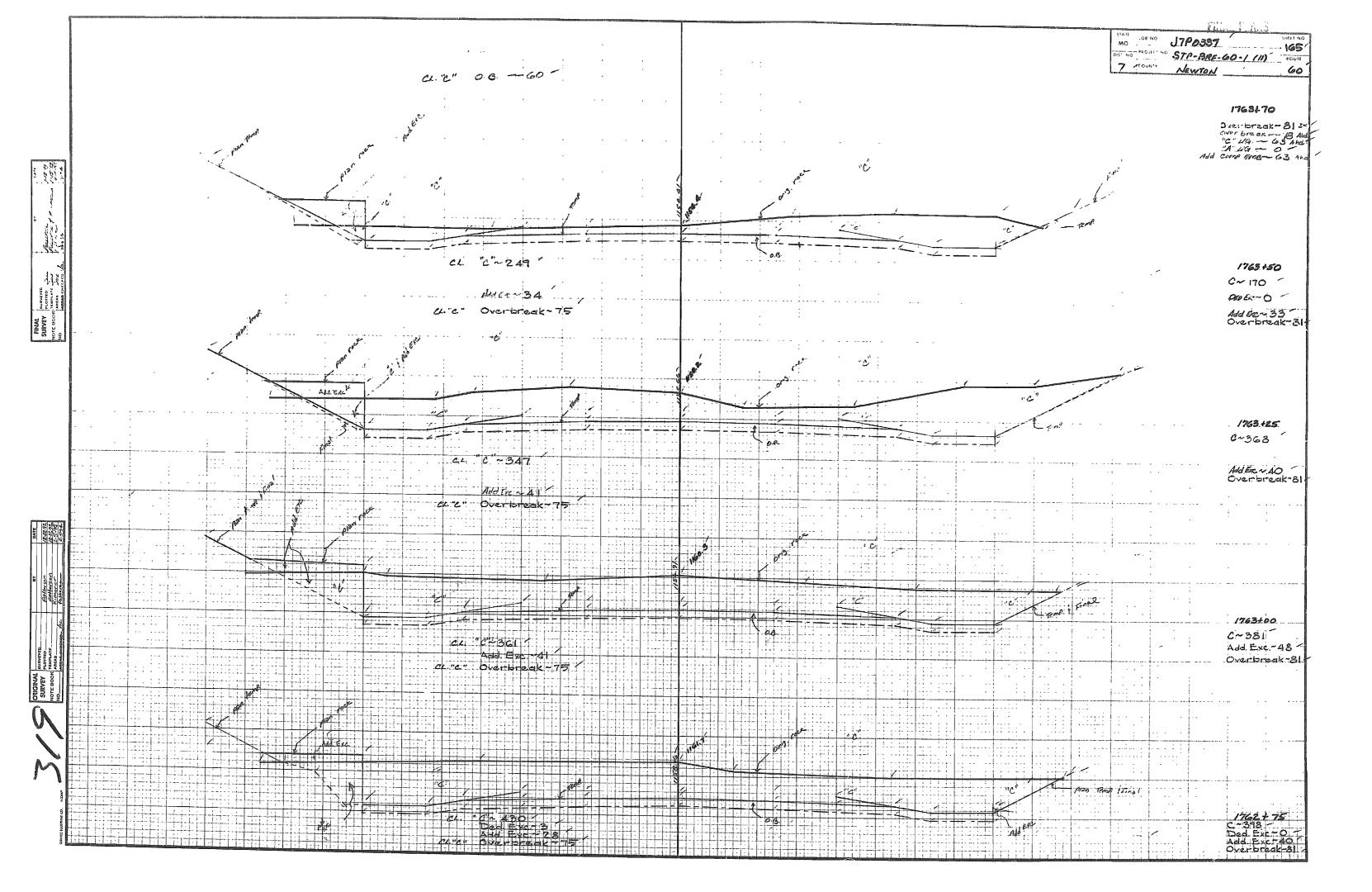
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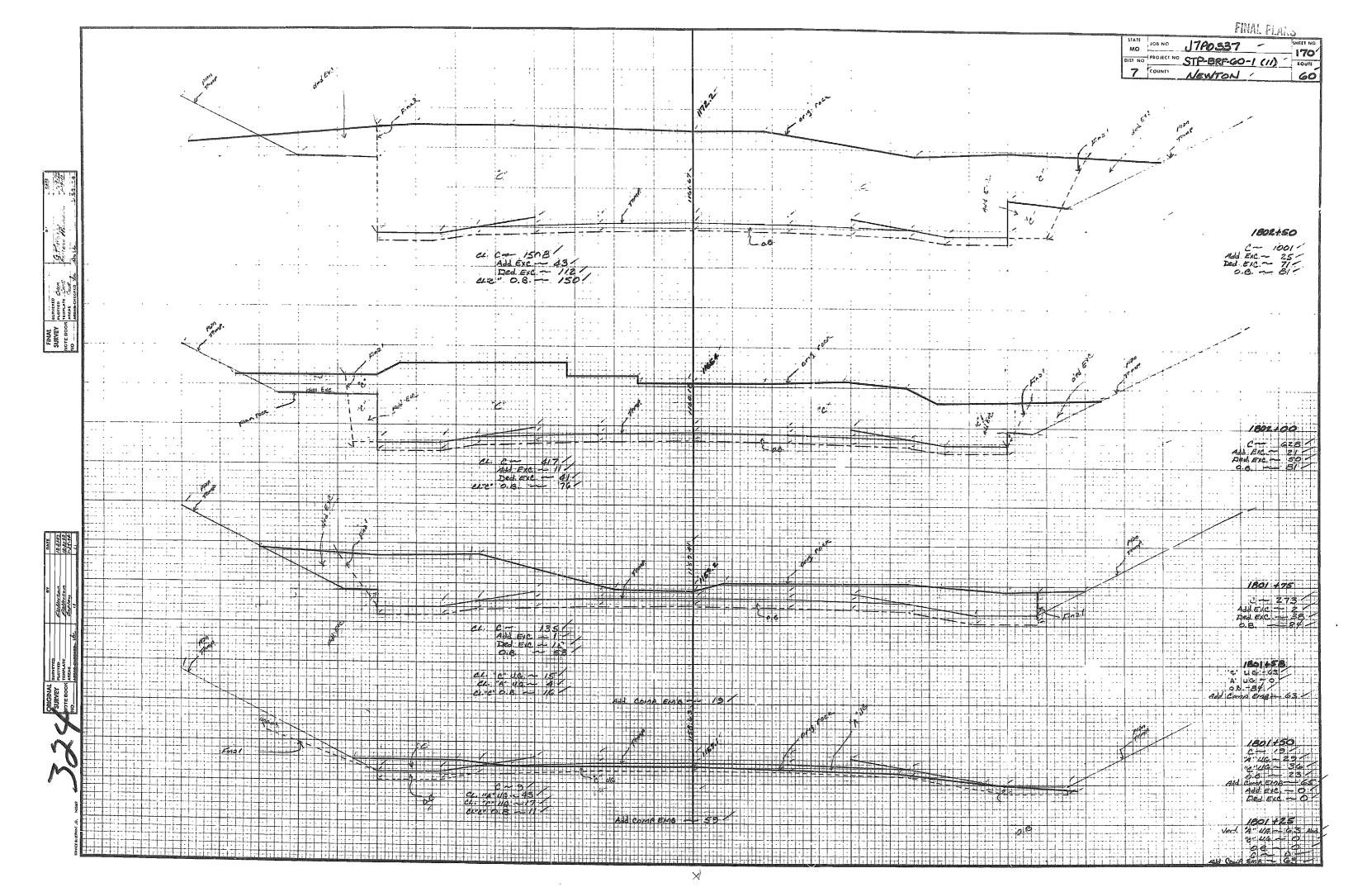


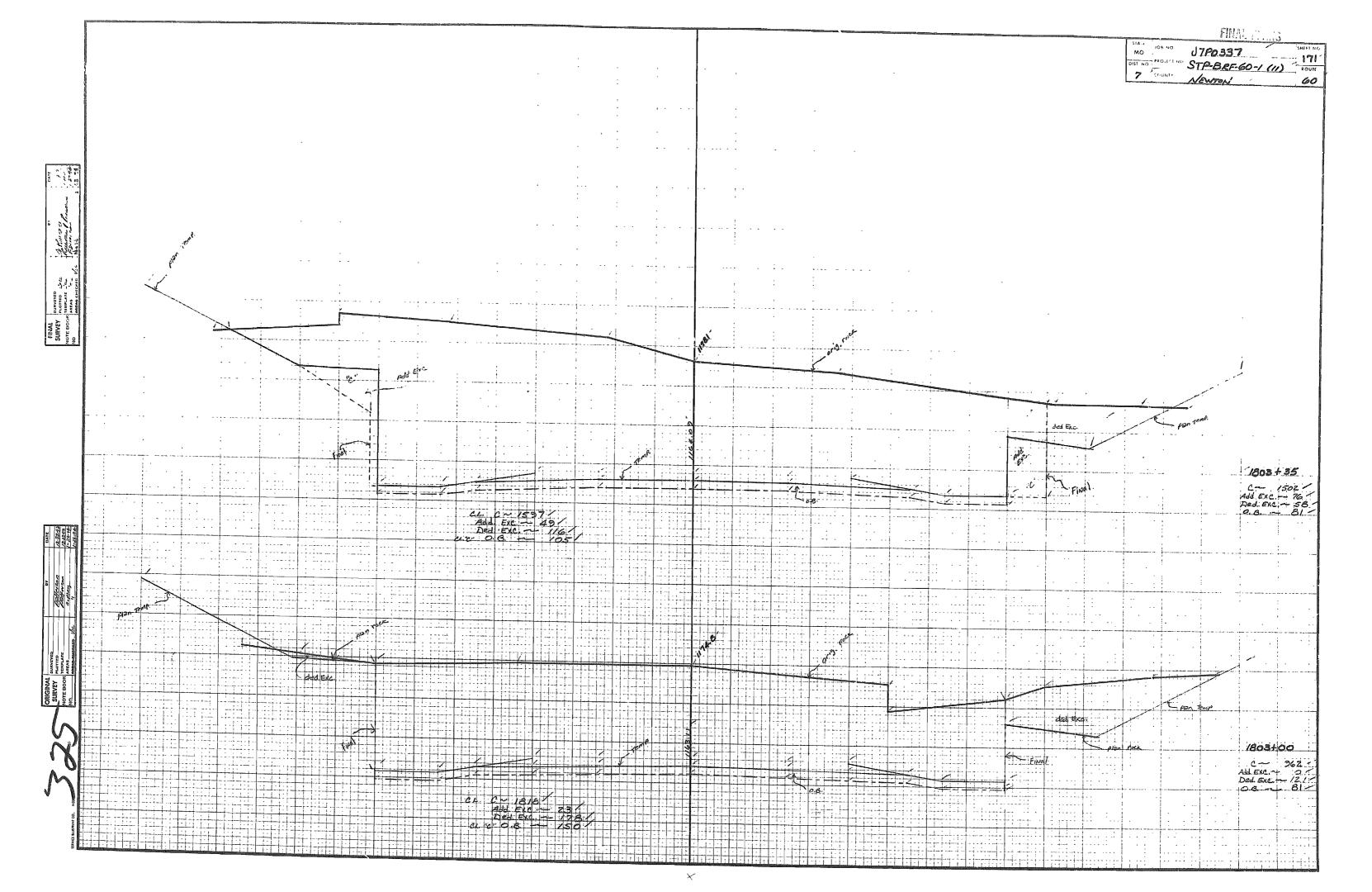


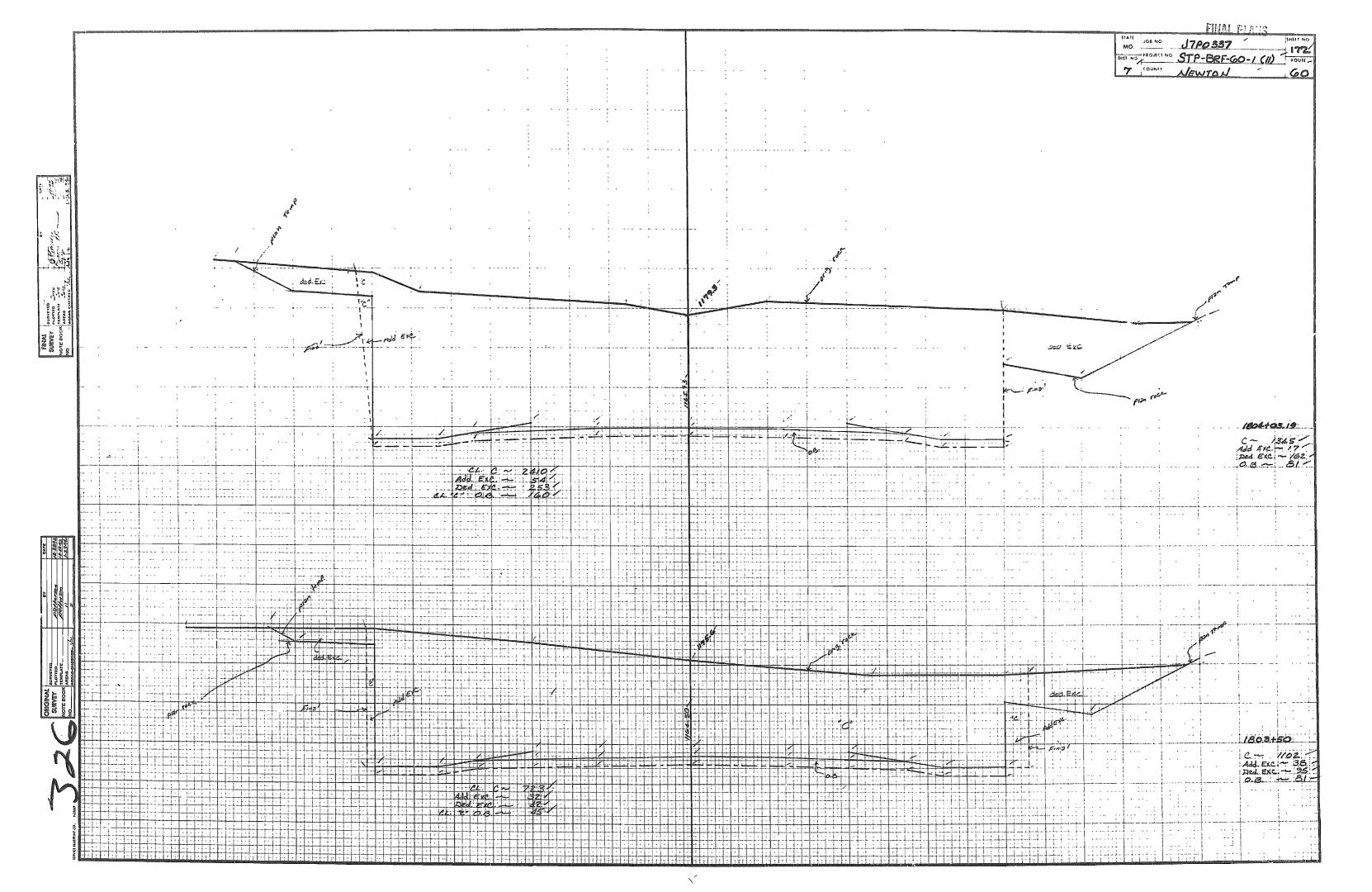




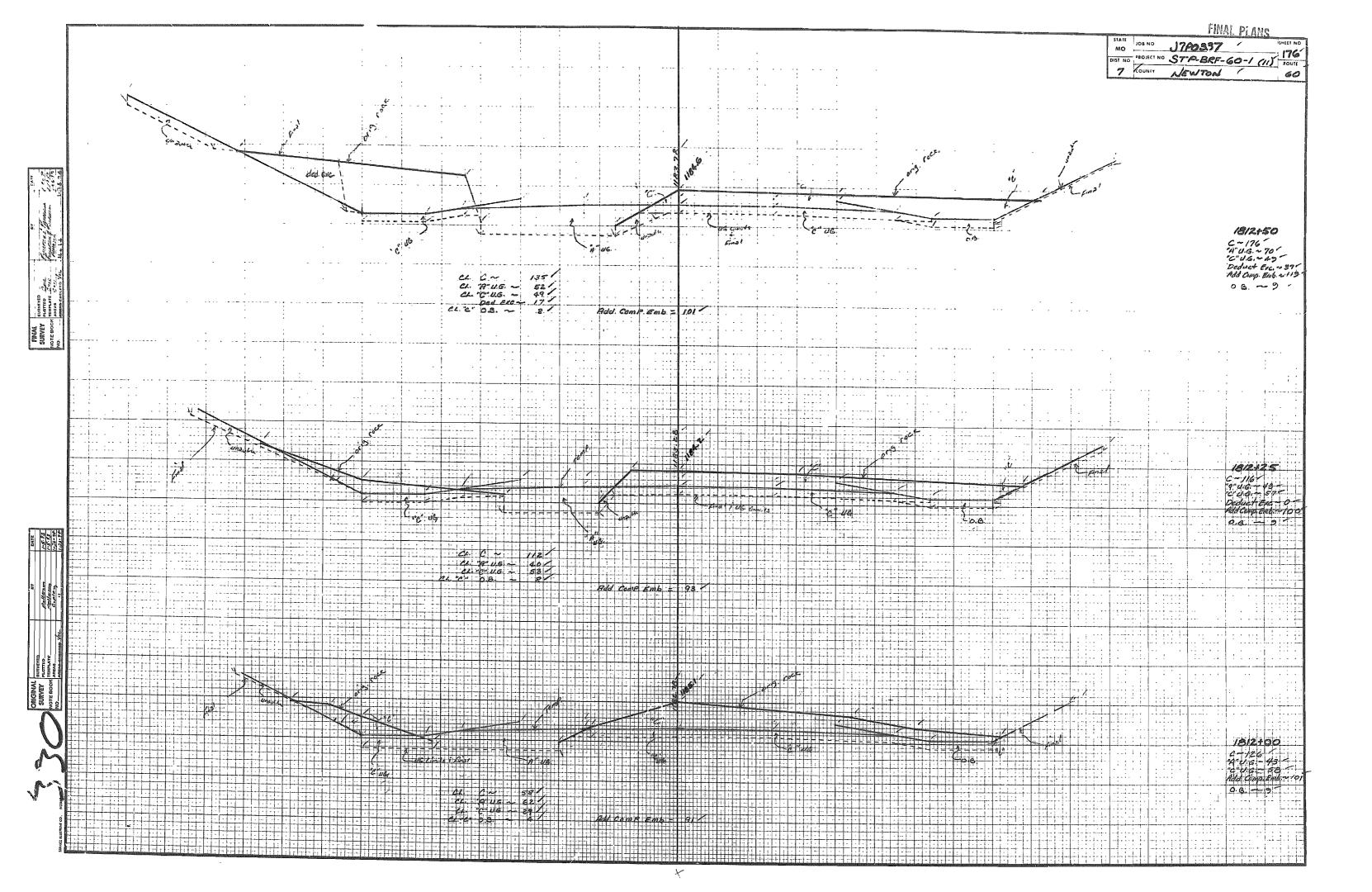
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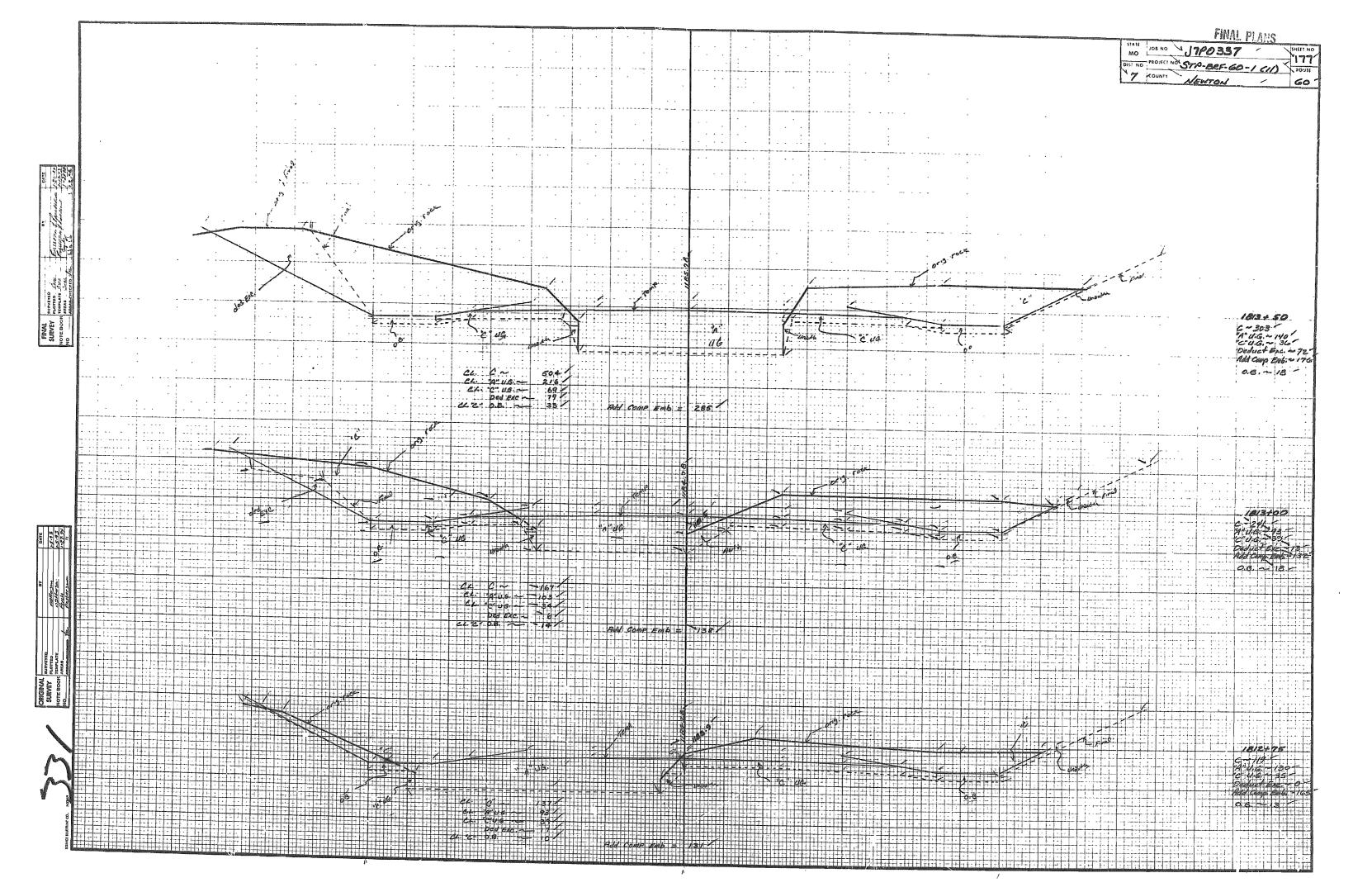


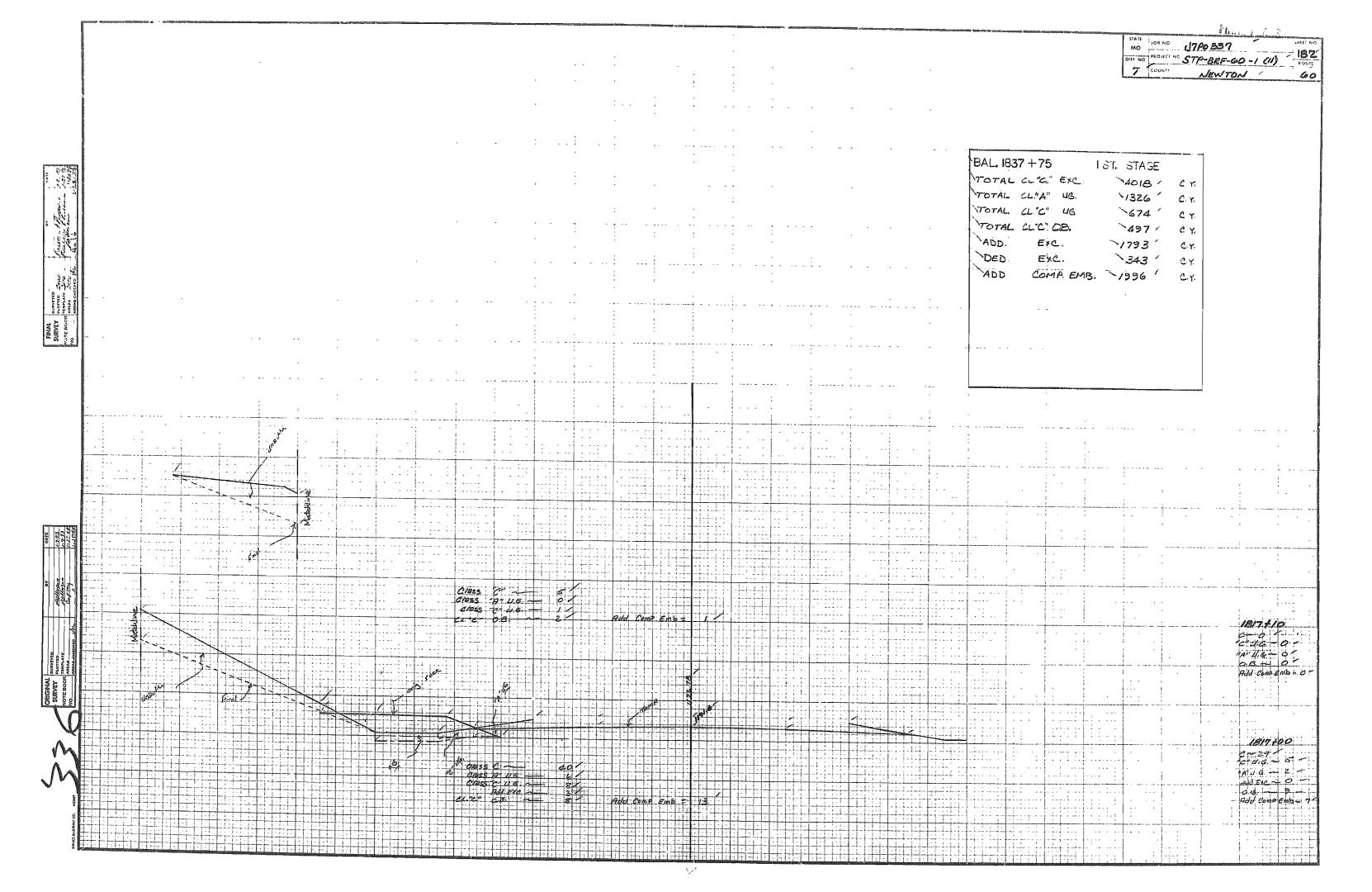




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STANCE A EXC.	± 2.5/
TOTAL PURLEKC.  ADDEX (Froj Rounding)  ADDEX (Froj Rounding)	142 5 CY
THA TUTEKS CLIC LINDERGR. CLIC OVERBR. TUTHL INAL CLIC EXC.	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
FUAL LL A EXC CL A LINDERGR. TOTAL FINAL CL A EXC.	14215 CY!
PLAN COMP EMB. MDD COMP EMB. DEDUCT COMP EMB. TOTAL FINAL COMP EMB.	765 CX.
LG I ROCK FILL	7.5 STA.

.BAL. 1768+90/15T.	STAGE /
PLAN CL. A EXC. PLAN CL. C EXC. TICTAL PLAN EXC. SECULIT EXC. NADU EXC.	104056 CY 10872 CY 114928 CY 736 CY
TOTAL EXC. FINAL CL C EXC. CL C UNDERGR.	114723 CX
TOTAL FINAL CL C EXC.	1566 CY.
, FINAL CL. A EXC CL A UNDERGR. TOTAL FINAL CL.A EXC.	100259 CY!
PLAN COMP EMB. ADD COMP EMB. DEDUCT COMP EMB. TOTAL FINAL COMP EMP. COMP - IN - CUT	4382 CY , 250 CY , 26 CY , 16606 CY , 30 ZE STA ,
L.G. 1	~ 27.3 STA.

BAL, 1575 + 49,4 / 2NJ, 5TA	<u>.</u> <u></u>
PLAN CL A EXC PLAN CL C EXC. TOTAL PLAN EXC DEDUCT EXC ADE EXC.	10.69.67 17.75.69.01 17.75.69.01
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FINAL CL A EXC. CL. A UNDERGR. TOTAL FINAL CL. A EXC.	C 63 cy .
PLAN COMP. EMB. ADD COMP. EMB. DEDUCT COMP. EMB. TOTAL FINAL COMP. EMB.	5662 cx

BAL JECE +73 101, ST - E PLAN CL A EXC PLAN CL C EXC. TOTAL PLAN EXC. DEDUCT EXC. ADD EXC. TOTAL EXC.	55837 cy / 50 cy / 5687 cy / 5687 cy /
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FINAL CL A EXC. CL. A UNDERGR TOTAL FINAL CL A EXC.	65011 cy
PLAN COMP EMB. ADD COMP EMB. DEDUCT COMP EMB. TOTAL FINAL COMP. EMB.	54731 cy / 0 cy / 0 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy / 1 cy
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PLAN CL A EXC PLAN CL CEXC. TGTAL PLAN EXC. DEDUCT EXC. ADD EXC. TOTAL EXC.	* 1385 CX / 1385 CX / 1385 CX / 1385 CX /
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* P.E. R. + 1826+00 / ** P.E. R. + 1856+00 / ** S.R.J. R. + 1818+00 /	

BAL. 1725 +OU / 13T.	STA E/
PLAN CL. A EXC. PLAN CL. C EXC. TOTAL PLAN EXC. DEDLICT EXC. ADD EXC. TOTAL EXC.	3194 CX' 3196 CX' 3196 CX' 3196 CX'
FINAL CL. C EXC. CL. C UNLERGR. CL. C C:VERBR. TOTAL FINAL CL. C EXC.	7// 60000 7///
FINAL CL. A EXC. CL. A UNDERGR. TOTAL FINAL CL. A EXC.	- 3196 CY. , 3196 CY. ,
PLAN COMP. EMB. ADD COMP. EMB. DEDUCT COMP. EMB. TOTAL FINAL COMP. EMB.	C C C C C C C C C C C C C C C C C C C
OVERHAUL L.G.	~ 107624 STAYDS." ~ 4.1 STA."

PLAN CL. A EXC. PLAN CL. A EXC. PLAN CL. C EXC. TOTAL PLAN EXC. DEDUCT EXC. ADD EXC.	11027 CM: 267 CM: -11294 CM: -0 CM:
TOTAL EXC. FINAL CL C EXC. ICL.C UNDERGR. ICL.C OVERER. TOTAL FINAL CL.C EXC.	7254 CX X X X X X X X X X X X X X X X X X X
FINÁL CL. Á EXC. CL. A LINDERGR. TOTAL FINAL CL. A EXC.	711335 GY. 1 0 GY. 1 711335 GY.
PLAN COMP. EMB. ADD COMP. EMB. DEDUCT COMP. EMB. TOTAL FINAL COMP. EMB.	6005 CX.
OVERHALLL	14751 STAYDS.

BAL, 1540+83.6/1ST, STALE	·
PLAN CL. A EXC. PLAN CL. C EXC. TOTAL PLAN EXC. DEDUCT EXC. ADD EXC.	82087 cy / 1239 cy / 83326 cy /
TÖTAL EXC. FINÂL CL. C EXC. CL. C LINDERGR. CL. C OVERBR.	83405 cx 1404 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx 191 cx
TOTAL FINAL CL. C EXC.  FINAL CL. A EXC.  CL. A UNDERGR.  TOTAL FINAL CL. A EXC.	62001 cy.
PLAN COMP. EMB. ADD COMP. EMB. TOTAL FINAL COMP. EMB. TOTAL FINAL COMP. EMB.	42483 CY / 204 CY / 42687 CY /
COMP-IN-CUT	21,41 STA.

1711 + 507 TC	
BAL. 1730+0 /2ND.	STAGE/
PLAN CL.A EXC. PLAN CL.C EXC. TOTAL PLAN EXC. DEDUCT EXC. ADD EXC. TOTAL EXC.	1871 CX: 1781 CX: 1781 CX: 1781 CX: 1781 CX: 1781
FINAL CL. C EXC. CL. C LINDERGR. CL. C OVERBR. TOTAL FINAL CL. C EXC.	25555 0000 1111
FINAL CL. A EXC. CL. A UNDERGR. TOTAL FINAL CL. A EXC.	1871 CY:
ADD COMP EMB. DEDUCT COMP EMB. TOTAL FINAL COMP EMB.	1586 CY . 0 CY . 1586 CY .
OVERHAUL	~ 9775 STA.YDS.
	PLAN CL.C EXC. TOTAL PLAN EXC. DEDUCT EXC. ADD EXC. TOTAL EXC. FINAL CL.C EXC. CL.C LINDERGR. CL.C OVERBR. TOTAL FINAL CL.C EXC. FINAL CL.A EXC. TOTAL FINAL CL.A EXC. PLAN COMP. EMB. ADD COMP. EMB. TOTAL FINAL COMP. EMB. TOTAL FINAL COMP. EMB.

· · · · · · · · · · · · · · · · · · ·	
BAL. 1705 +61/ IST. STAG	SF /
PLAN CL.A EXC.	84523 CY.
PLAN CL.C EXC.	20183 CY.
TOTAL PLAN EXC.	104706 CY.
DEDUCT EXC.	1 2552 CY.
ADD EXC.	2495 CY.
TOTAL EXC.	105149 CY.
FINAL CL C EXC.	26745 CY.
CL: C UNDERGR.	21E CY.
CL: C OVERBR.	945 CY.
TOTAL FINAL CLASS C EXC.	27908 CY.
FINAL CL. A EXC.	78404 CM;
CL. A UNDERGR.	209 CY;
TOTAL FINAL CL A EXC.	78613 CY;
PLAN COMP. EMB.	12217 CY!
ADD COMP. LMB.	476 CY!
DEDUCT. COMP. EMB.	0 CY!
TOTAL FINAL COMP. EMB.	12643 CY!
COMP-IN-CHT	10.71 STA."
L.G. I	0.6 STA."

1576 + 15.17TC LBAL 1597 +34.67 2ND	STALE /
PLAN CL. A EXC. PLAN CL. C EXC. TOTAL PLAN EXC. DEDUCT EXC. ADD EXC. TOTAL EXC.	5584 cm." 5584 cm." 5584 cm." 5584 cm." 6 cm." 5584 cm."
FINAL CI C EXC. CL.C UNDERGR. CL.C CVERBR. TOTAL FINAL CL.C EXC.	0000
FINAL CL. A EXC. CL. A UNDERGR. TOTAL FINAL CL. A EXC.	7 5584 cx 1 0 cx 1 1 5584 cx 1
PLAN COMP. EMB. ADD COMP. EMB. DEDUCT COMP. EMB. TOTAL FINAL COMP EMB.	4373 cy; 4373 cy;

BAL 1608 +00/ 1ST	STAGE <
PLÂN CL. A EXC. PLAN CL. C EXC. TOTAL PLAN EXC. DEDUCT EXC. ADD EXC. TOTAL EXC.	49679 CX: 49679 CX: 533 CX: 50212 CX:
FINAL CL.C EXC. (Boulders) CL.C LINDERGR. YCL C CVERDR TOTAL FINAL CL.C EXC.	111 c4,
FINAL CL. A EXC. CL.A UNDERGR. TOTAL FINAL CL. A EXC.	50101 CK
PLAN COMP. EMB. TADD COMP. EMB. DEDUCT COMP. EMB. TOTAL FINAL COMP. EMB.	68508 cx. 1 237 cx 1 0 cx. 1 68745 cx 1
COMP-IN-CUT OVERHAUL	20.62 STA.7 395544 STAMES

SEE. CORRECTED TABULATION OF QUANTITY SHEETS FOR ADJUSTED PLAN QUANTITY OF EXCAVATION AND COMPACTING EMBANKMENT

FOR EACH BALANCE.

4.5

PLAN EXC. CHECK

PROJECT TOTALS PLAN CL. A EXC. 539968 CX 44502 CX PLAN CL.C EXC. TOTAL PLAN EXC 584470 EX DEDUCT EXC. 4925 CX ADD, EXC. 8919 CY TOTAL EXC. 588464 c.x. FINAL CL. C EXC. 6155664 CL. C UNDERGR. 1181'08 4628 CX CL. C OVERBR. TOTAL FINAL CL. C EXC. 67365 CX FINAL CL. A EXC. 526908 CY CL. A UNDERGR. 1826'cx TOTAL FIVAL CL.A EXC. 528734'CH PLAN COMP. EMB. 465783'cx ADD COMP. EMB. 3242 CX DEDUCT COMP. EMB. 4689999'cx TOTAL FINAL COMP. EMB. COMP-IN-CUT 720.5 STA. OVERHAUL 3704911 STAYDS. 42.1 STA LG.-1

_BAL_1837 + 75 / IST. STAGE / 101317 CY."
11 591 CY."
11 3208 CY."
1623 CY."
2104 CY." PLAN CL. A EXC. PLAN CL.C EXC.
TOTAL PLAN EXC.
DEDUCT EXC.
ADD EXC.
TOTAL EXC. 113689 CV FINAL CL C EXC.
CL C UNDERGR.
CL C OVERBR.
TOTAL FINAL CL C EXC. 17743 CX ( 732 CX ( 1794 CX ( 20269 CX ( 95946 CM. 1399 CM. 97345 CM. FINAL CL.A EXC. CL. A UNDERGR. TOTAL FINAL CL. A EXC. PLAN COMP. EMB.
TADD COMP. EMB.
DEDUCT COMP. EMB.
TOTAL FINAL COMP. EMB. 94051 CK. COMP-IN-CLIT 15.40 STA. 486568 STA. 405 L.G. I

	BAL 1792 + 82 /	IST	STAGE /	
1	PLAN CL.A EXC. PLAN CL.C EXC. TOTAL PLAN EXC. DEDUCT EXC. ADD EXC. TOTAL EXC.			1437 CX:
11/	FINAL CL. C EXC. CL. C LINDERGR. CL. C OVERBR. TOTAL FINAL CL. C EXC.			1)//
'	FINAL CL. A EXC. CL. A LINDERGR. TOTAL FINAL CL. A EXC.			1457 CY.
	PLAN COMP. EMB. ADD COMP. EMB. DEDUCT COMP. EMB. TOTAL FINAL COMP. EMB.		,	93638 CX
	DVERHALL			2399513 STALYDS.

SLAN CL A EXC.	1539968 cy./
PLAN OL O EXC	44502 cx.
TOTAL PLAN EXC	584470 cx
DEDUCK EXC.	1925 CY
ADD EXX	- 8910 c.x/
TOTAL EXA	158,8464 C.Y.
FINAL CL. C EXC	761556 CY
CL.C UNDERGR.	/ 1181 ox/
CL.C OVERBR.	1 4628 cm/
TOTAL FINAL CL. C EXC.	~67365 CY/
FINAL CL. A EXC.	526908cx/
CL A UNDERGR.	1826 CX/
TOTAL FINAL CL A EXC.	528734 CY
PLAN COMP. EMB.	465783 C.Y./
ADD COMP EMB.	3242 C.Y.
DEDUCT COMP. EMÉ.	26 CY.
TOTAL FINAL COMP EMB.	468999 C.Y.
COMP-IN-GAT	120.5 STA
OVERHAUL	3704911 STA YDS
L.G. 1/	42.1 STA.
2.2. /	42.1 514.
<u>/</u>	

### DESIGN DESIGNATION

A.D.T. - 2004 = 5.500 A.D.T. - 2024 = 7.700 D.H.V.= 8% T = 11%

 $\label{eq:V} V \,=\, 50 \,\,\text{M.P.H.}$  FUNCTIONAL CLASSIFICATION : MINOR ARTERIAL

### PARTIAL LIMITED ACCESS HIGHWAY

THIS SHALL BE A PARTIAL LIMITED ACCESS HIGHWAY. EXCEPT AT LOCATIONS AND AS OTHERWISE SPECIFICALLY SHOWN ON THESE PLANS, NO ABUTTER'S RIGHTS IN, OR OF DIRECT ACCESS TO, FROM OR ACROSS THE HIGHWAY OR ITS RIGHT-OF-WAY SHALL ATTACH OR BELONG TO ANY PROPERTY ABUTTING ON SAID SECTION OF HIGHWAY, OR TO ANY PERSON MERELY BECAUSE OF OWNERSHIP OF SUCH ABUTTING PROPERTY WHERE THE SYMBOL SHOWN BELOW IS SHOWN ON THE RIGHT-OF-WAY LINE.

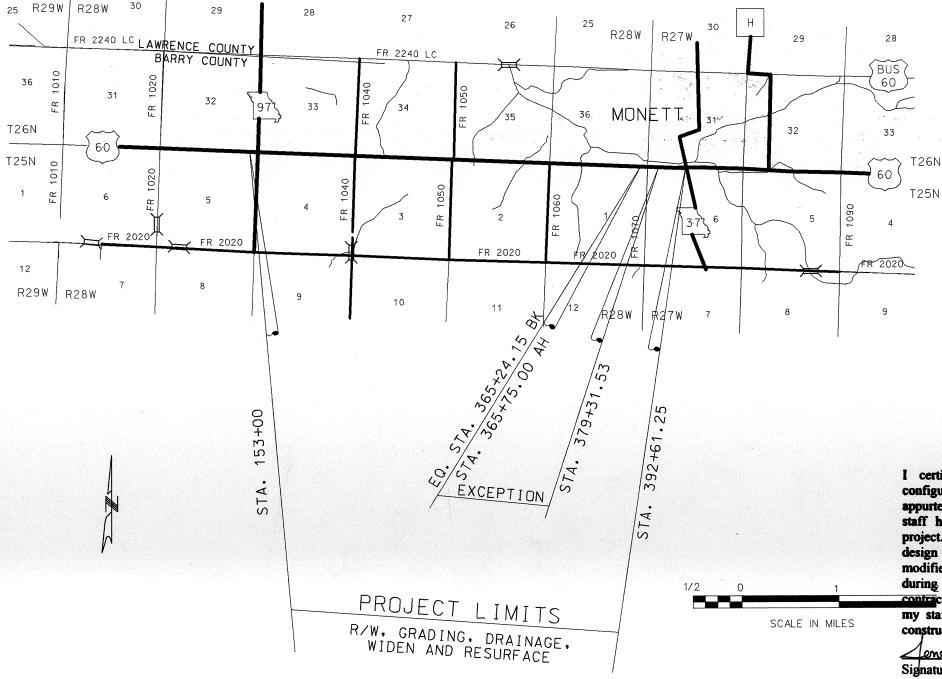
## CONVENTIONAL SYMBOLS

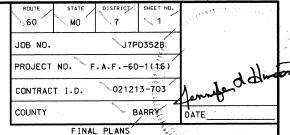
NEW BUILDINGS AND STRUCTURES ____ ..... CONCRETE RIGHT-OF-WAY MARKER STEEL RIGHT-OF-WAY MARKER UTILITIES FIBER OPTICS -F0--F0-OVER HEAD TELEPHONE UNDER GROUND TELEPHONE ------_____ OVER HEAD POWER UNDER GROUND POWER SAN HYD <del>- G</del> WATER -W-MANHOLE FIRE HYDRANT WATER VALVE • WATER METER **"** DROP INIET = DITCH BLOCK GROUND MOUNTED SIGN LIGHT POLE H-FRAME POWER POLE TELEPHONE PEDESTAL FENCE CHAIN LINK WOVEN WIRE GATE POST  $\boxtimes$ GRS MONUMENT (·)→ ^{BM}⊗ BENCHMARK UTILITY TO BE MOVED USE IN PLACE U.I.P. REMOVE & RELOCATE R&R REMOVE (R)

# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED
STATE HIGHWAY

BARRY COUNTY FINAL PLANS





INDEX OF SHEETS SHEET DESCRIPTION NUMBER TITLE SHEET ---TYPICAL SECTIONS (4 SHEETS)----2-5 6-7 SUMMARY (2 SHFFTS 2A)--SUMMARY (4 SHEETS 2B)-PLAN-PROFILE ---12-32 REFERENCE POINTS ---COORDINATE POINTS ---33-38 SPECIAL SHEETS --TRAFFIC CONTROL SHEETS --EROSION CONTROL LIGHTING ----SIGNALS ----39-41 SIGNING CULVERT SECTIONS 42-48 BRIDGE DRAWINGS -

49-185

STANDARD PLANS INDEX -

COMPUTER DATA

CROSS SECTIONS -----

### END OF PROJECT STA. 392 + 61.25 BEGINNING OF PROJECT STA. 153 + 00.00APPARENT LENGTH 23961.25 FEET EQUATIONS AND EXCEPTIONS EQUATION: 365+24.15BK=365+75.00AH - 50.85 FEET EXCEPTION: 365+75.00 TO 379+31.53 - 1356.53 FEET - 1407.38 FEET TOTAL CORRECTIONS NET LENGTH OF PROJECT 22553.87 FEE STATE LENGTH 4.272 MILES FEDERAL LENGTH 4.272 MILES

LENGTH OF PROJECT

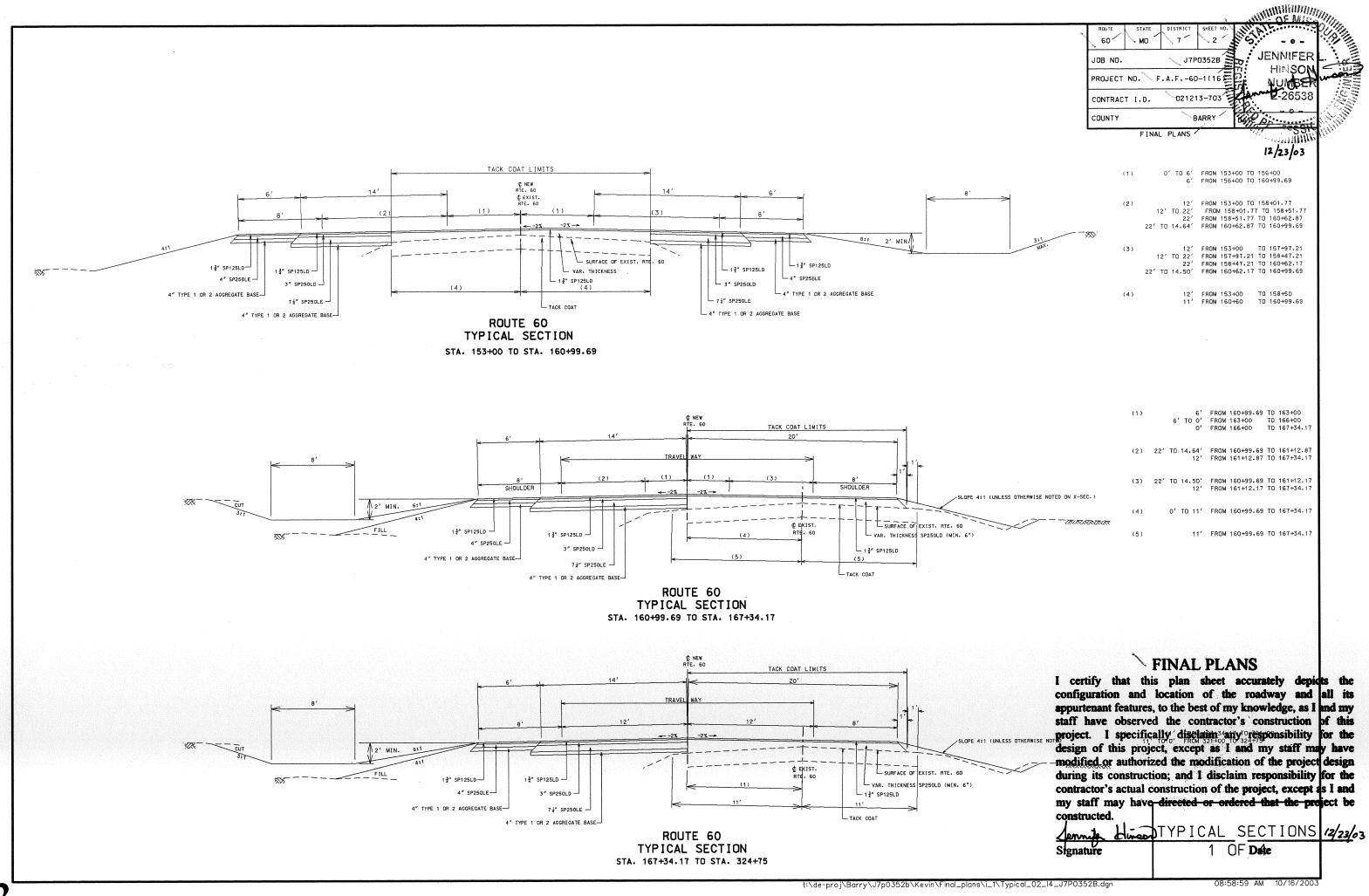
### FINAL PLANS

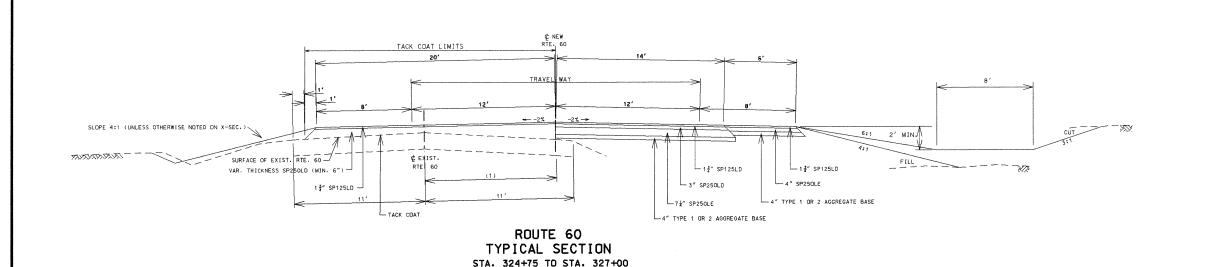
I certify that this plan sheet accurately depicts the configuration and location of the roadway and all ts appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered that the project be constructed.

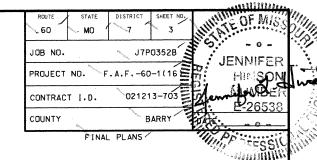
Signature I man

12/23/03 Date

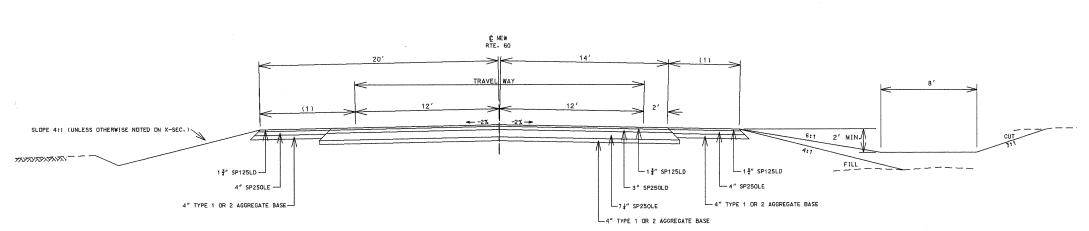
DATE 10/17/2003







(1) 0' TO 11' FROM 324+75 TO 327+00



ROUTE 60 TYPICAL SECTION STA. 327+00 TD STA. 342+00

TACK COAT LIMITS

(2)

ROUTE 60 TYPICAL SECTION STA. 342+00 TO STA. 392+61.25 EXCEPTION 365+24.15 BK = 365+75.00 AH; TO 379+31.53

3" SP250LD -

4" TYPE 1 DR 2 AGGREGATE BASE-

4" TYPE 1 OR 2 AGGREGATE BASE-

SURFACE OF EXIST. RTE. 60

- 1}″ SP125LD

- TACK COAT

### FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered that the project be - 4" TYPE 1 DR 2 AGGREGATE BACOPSTRUCTED.

11' FROM 342+00.00 TO 365+24.15 BK 19' FROM 379+31.53 TO 392+61.25

3" MIN SP250LD FROM 342+00 TO 365+24.15 BK 2" MIN SP190LD FROM 378+00 TO 392+61.25

0' - 7' FROM 342+00 TO 345+50 7' FROM 345+50 TO 392+61.25

11' - 7' FROM 342+00 TO 359+74.93 7' FROM 359+74.93 TO 365+24.15 BK 7' - 0' FROM 379+31.53 TO 387+47.95

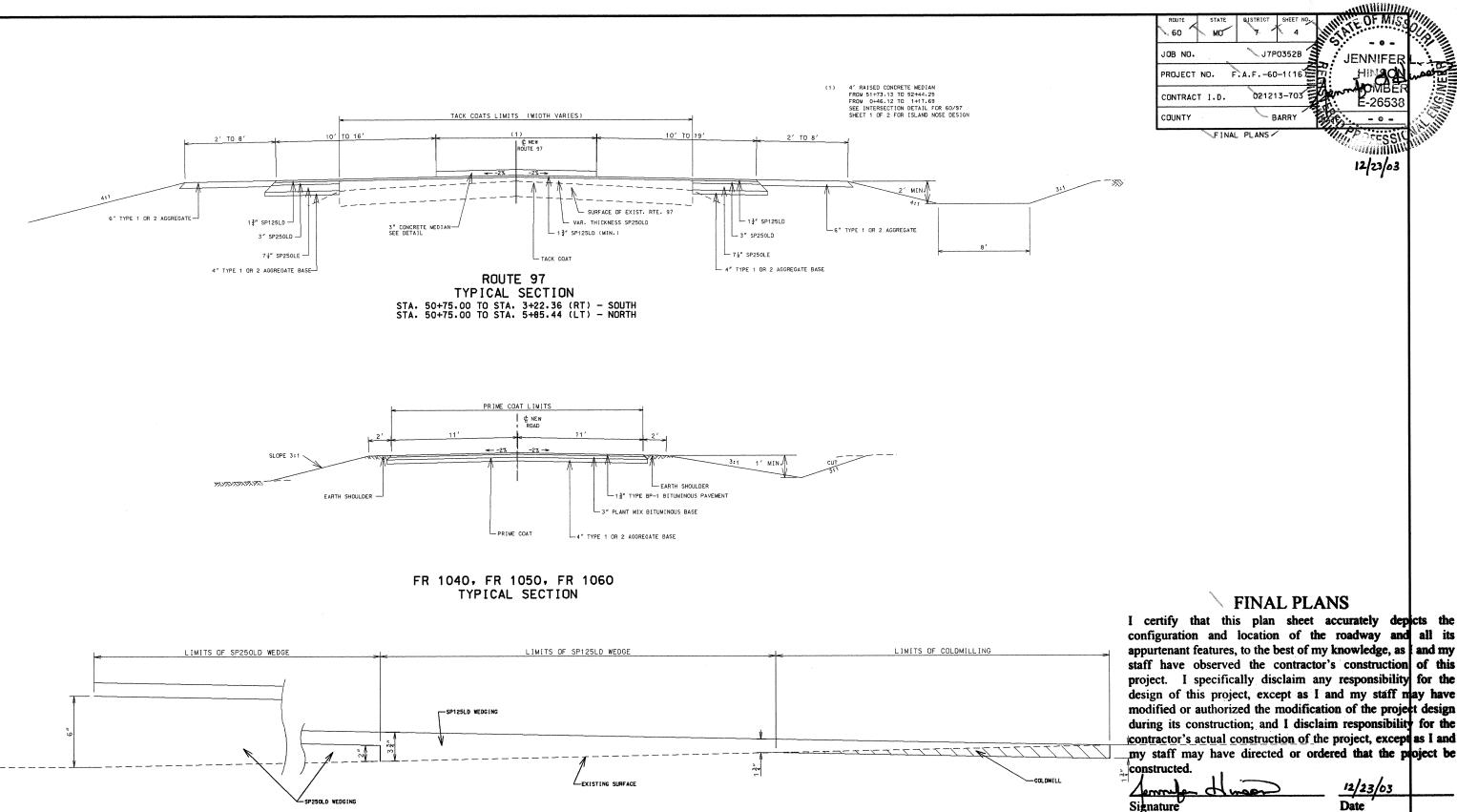
O' FROM 387+47.95 TO 392+61.25

6' FROM 327+00 TO 341+00

WEDGE ASPHALT TO A COLDMILLED SECTION O TO 134" DEEP FROM 390+86.25 TO 392+61.25

TYPICAL SECTIONS 2 OF 4

☐ 3" SP250LD



SP125LD WEDGING

STA. 153+00.00 @ 1 7 TO STA. 155+00.00 @ 3 7 (ROUTE 60) STA. 364+50.00 @ 3 7 TO STA. 364-90.00 @ 1 7 (ROUTE 60) STA. 380+25.00 @ 1 7 TO STA. 381+05.00 @ 3 7 (ROUTE 60) STA. 388+86.25 @ 3 7 TO STA. 390+86.25 @ 1 7 (ROUTE 60) STA. 50+75.00 @  $1\frac{3}{4}$ " TO STA. 52+50.00 @ 0" (ROUTE 97) STA. 5+85.44 @ 0" TO STA. 6+85.44 @  $1\frac{3}{4}$ " (ROUTE 97)

DEPTH TRANSITION DETAIL

12/23/03

021213-703

BARRY

12/23/03

Date

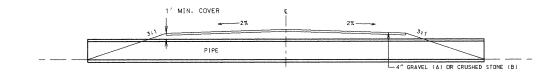
TYPICAL SECTIONS 3 OF 4

COLDMILLING

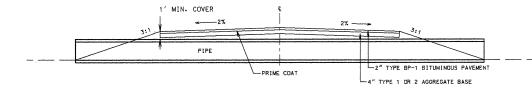
STA. 151+25.00 @ 1 3" TO STA. 153+00.00 @ 0" (ROUTE 60) STA. 390+86.25 @ 0" TO STA. 392+61.25 @ 13" (ROUTE 60)

SP250LD WEDGING

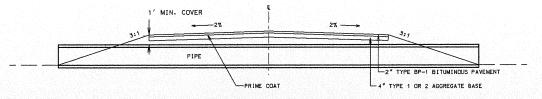
STA. 155+00.00 @ 2" TO STA. 159+00.00 @ 6" (ROUTE 60) STA. 363+75.00 @ 6" TO STA. 364+75.00 @ 2" (ROUTE 60)

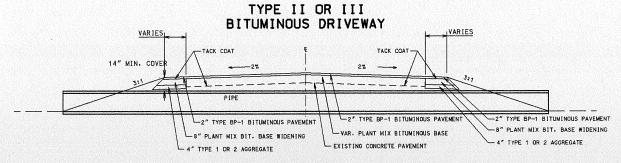


## TYPE I GRAVEL (A) OR CRUSHED STONE (B) AGGREGATE DRIVEWAY

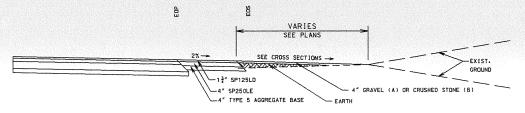


### TYPE I BITUMINOUS DRIVEWAY

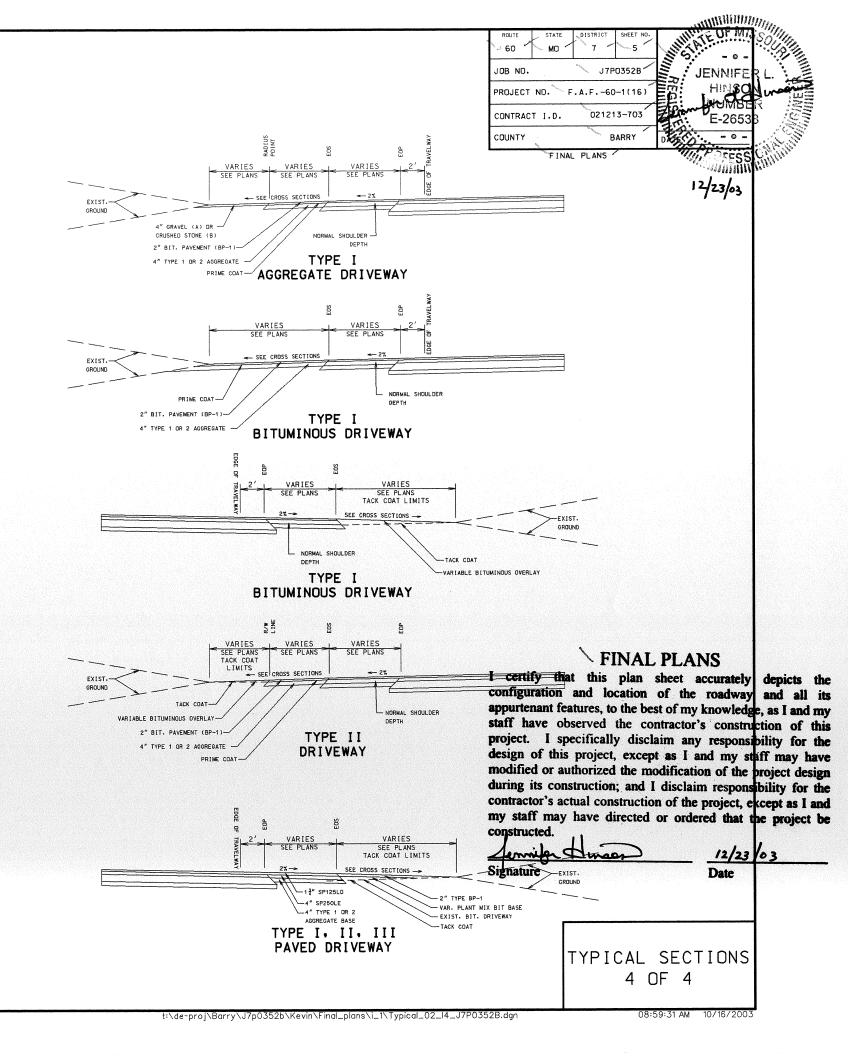




# TYPE III EXISTING CONCRETE DRIVEWAY WITH BITUMINOUS WIDENING AND OVERLAY STA. 386+56 STA. 388+43



TYPE I, II, III
AGGREGATE DRIVEWAY



# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION SUMMARY OF QUANTITIES

REV. APRIL 99	STATE MO	JOB NO. J7P0352B	SHEET NO.
SHEET 1 OF 2	7 3	PROJECT NO. FAF-60-1(16)	0
	DISTRICT	CONTRACT ID 021213-703	ROUTE CO
	1.01	DARRY	ן סט

ITEM	DESCRIPTION	UNIT	QUANTITY
*	ROADWAY ITEMS		. /
201-31.00	CLEARING AND GRUBBING	LS _	×1 -
202-20.10	REMOVAL OF IMPROVEMENTS	LS /	X1 ~
202-40.38	REMOVAL OF TRANSITE (CATEGORY II NON-FRIABLE)	SQFT	7.70
202-70.00	DISPOSAL AND PLUGGING OF WELLS	EA -	1
202-99.50	DEMOLITION AND REMOVAL OF BUILDINGS - PARCEL NO.	,LS	<del>X</del> 1 /
	19 (J7P0352B)		
202-99.50	DEMOLITION AND REMOVAL OF BUILDINGS - PARCEL NO.	LS	<u> </u>
	22 (J7P0352B)		
203-10.00	CLASS A EXCAVATION	CUYD	99825
203-20.00	CLASS C EXCAVATION	CUYD -	329
203-60.00	COMPACTING EMBANKMENT	CUYD	54902
203-70.75	COMPACTING IN CUT	STA	231.2
206-30.00	CLASS 3 EXCAVATION	CUYD	₹ 1648
206-55.00	TEMPORARY SHORING	LS /	7
207-10.00	LINEAR GRADING CLASS 1	STA	<b>/</b> 3.5
207-20.00	LINEAR GRADING CLASS 2	STA	0
301-20.00	MINERAL AGGREGATE (BITUMINOUS BASE)PG64-22	TONS	2503
301-60-17	ASPHALT BINDER (BITUMINOUS BASE) PG 64-22	TONS	140.1
304-00.43	TYPE 1 AGGREGATE FOR BASE (4 INCHES THICK)	SQYD	77132
304-00.63	TYPE 1 AGGREGATE FOR BASE (6 INCHES THICK)	SOYD	X 643 /
310-50.01	GRAVEL (A)	CUYD	521
390-90.00	TEMPORARY SURFACING	CUYD	0 /
401-11.10	ASPHALT BINDER (BITUMINOUS PAVEMENT) PG 64-22 (BP-1 MIX)	TONS	73.2
401-20-10	MINERAL AGGREGATE (BITUMINOUS PAVEMENT) PG64-22(BP-1 MIX)	TONS	1071 /
403-90.75	BITUMINOUS TEST STRIP	EA	1011
403-30113	ASPHALT BINDER (ASPHALTIC CONCRETE)	*LA	
403-97.56	PG 64-22 (SP125LD MIX)	TONS	\ \ \ \ -
405-31.36	PG 64-22 (SP125LD MIX) /	כאוט וי	∕0
	MINERAL AGGREGATE (ASPHALTIC CONCRETE)		
403-97.57	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	TONS	\n -
403-91.51	PG 64-22 (SP125LD MIX)	LI DINZ ,	υr
	PG 64-22 (SP125LD MIX)		
>	ASPHALT BINDER (ASPHALTIC CONCRETE)	L /	
403-98.20	PG 64-22 (SP190LD MIX)	TONS	`0 /
	PG 64-22 (SP190LD MIX)		
/\	MINERAL AGGREGATE (ASPHALTIC CONCRETE)	1 1	
403-98.21	PG 64-22 (SP190LD MIX)	TONS	0 /
	PG 64-22 (SP190LD MIX)		
	ASPHALT BINDER (ASPHALTIC CONCRETE)		
403-98.76	PG 64-22 (SP250LD MIX)	TONS <	0 ′
	PG 64-22 (SP250LD MIX)		
	MINERAL AGGREGATE (ASPHALTIC CONCRETE)		
<b>4</b> 03−98.77 ∕	PG64-22 (SP250LD MIX)	TONS /	0 /
	PG 64-22 (SP250LD MIX)		
	ASPHALT BINDER (ASPHALTIC CONCRETE)		\ \ /
403-98.88	PG 64-22 (SP250LE MIX)	TONS	0
	PG 64-22 (SP250LE MIX)		
	MINERAL AGGREGATE (ASPHALTIC CONCRETE)		
٠403-98.89 🦳 آ	PG 64-22 (SP250LE MIX) /	TONS (	0
	PG 64-22 (SP250LE MIX) /		
407-10-05	TACK COAT	GAL	3090
408-10.10	PRIME-LIQUID ASPHALT MC 30	GAL /	1360 /
		·	1

ITEM	DESCRIPTION		UNIT	QUANTITY
604-40.13	PIPE COLLAR, TYPE C	E	Ξ <b>Δ</b> ~	12
608-30.00	CONCRETE MEDIAN STRIP	1	SQYD /	×144.0
609-10.10	CONCRETE CURB (6 IN. HEIGHT AND UNDER) TYPE S	1	.F	×286
609-10.41	CONCRETE GUTTER TYPE A	1	.F	×44 <
609-10.51	CURB AND GUTTER TYPE A	1	_F	×40 <
609-60.20	FURNISHING TYPE 2 ROCK DITCH LINER	1	CUYD /	, >909
609-60.42	PLACING TYPE 2 ROCK DITCH LINER /	7	CUYD	×909
609-70.00	ROCK LINING -	1	CUYD	×1158 <
616-10.05	CONSTRUCTION SIGNS	1	SQFT	<b>1576</b>
616-10-20	CHANNELIZER (DRUM-LIKE)	1	EA /	250
616-10.30	TYPE III MOVEABLE BARRICADE	E	EA /	×4 /
616-10.71	TRAFFIC BARRIER DELINEATOR, WHITE	T.	EA /	×0 /
616-11.30	INSTALLING GIVE EM A BRAKE, 48 IN. X 48 IN. SIGN		A -	×2 /
616-11.32	INSTALLING 'SHOW ME PROGRESS' SIGN ASSEMBLY	-	Α -	×0
616-11.40	INSTALLING NO CENTER STRIPE SIGN		 	/15
,3.0 11140	CONTRACTOR FURNISHED / RETAINED			13
617-36.00B	TEMPORARY CONCRETE TRAFFIC BARRIER, TYPE F	-	.F	750 -
J.1-30.000	TEMPORARY TYPE F CONCRETE TRAFFIC BARRIE		-r	750
617-50-10	RELOCATING TEMPORARY CONCRETE TRAFFIC BARRIER	1	.F _	3112
			. <u>r /</u>	1
618-10.00	MOBILIZATION	-		23000
619-10.00	PAVEMENT EDGE TREATMENT	_		123
620-53.01A	PREFORMED REMOVABLE MARKING TAPE 4 IN., SOLID WHITE		_F	1980
620-53.03A	PREFORMED REMOVABLE MARKING TAPE 4 IN., SOLID YELLOW	_	.F —	+
620-60.00A	4 IN. SOLID WHITE WATERBORNE PAINT	-	.F	59010
620-60.01A	4 IN. SOLID YELLOW WATERBORNE PAINT	-	_F /	<b>&gt;51270</b>
620-60.03A	4 IN. INTERMITTENT YELLOW WATERBORNE PAINT	-	.F _	×4420
620-61.01	WATERBORNE PAINT, LEFT ARROW (WHITE)		A /	× 22
620-61.02	WATERBORNE PAINT, RIGHT ARROW (WHITE)		EA _	2
620-61.04	WATERBORNE PAINT. STRAIGHT-LEFT ARROW (WHITE)		EA -	
	WATERBORNE PAINT, WORD (ONLY)	1	EA -	> 0
	WATERBORNE PAINT, 24 IN. WIDE (WHITE)	1	.F _	×88 <
620-61.25	WATERBORNE PAINT, 24 IN. WIDE (YELLOW)	ال	.F -	>171
620-64.35A 🦟	CONCRETE TRAFFIC BARRIER MARKING, 10 IN., SOLID WHITE	<u> </u>	.F _	×780 (
620-70.00A 🔨	PAVEMENT MARKING REMOVAL (PAINT)	71	.F _	t×900 (
620-70.05A 🥎	PAVEMENT MARKING REMOVAL (TAPE)	$\rightarrow$	.F	>0/
620-80.65	TEMPORARY RAISED PAVEMENT MARKER, TYPE 2	$\rightarrow$	EA _	×3000 ′
622-40-10	MODIFIED COLD MILLING (DEPTH TRANSITIONS)	1	SQYD -	×2347
626-10.00	BITUMINOUS RUMBLE STRIP (	4	100F -	388.5
703-20.01	CLASS B CONCRETE (CULVERTS)	7	CUYD /	×466.8 -
706-10.30	REINFORCING STEEL (CULVERTS)	J	.в —	61520
725-03.15	15 IN. PIPE CULVERT GROUP B	J	.F /	1395
725-03.18	√8 IN. PIPE CULVERT GROUP B	4		579
725-03.24	24 IN. PIPE CULVERT GROUP B		.F /	354
726-13.18	-18 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT /		.F —	×115
726-13.24	~24 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT /		.F -	<b>3167</b>
726-13.30	30 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	- =	.F	×212 ′
726-13.36	-36 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	-		×380
			.F /	×37 -
726-13.48	48 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT			×6 /
732-00.15	15 IN. GROUP B FLARED END SECTION		-A -	
732-06.18	18 IN, PRECAST CONCRETE FLARED END SECTION	-	- A	×4 /
732-06.24	24 IN. PRECAST CONCRETE FLARED END SECTION		EA -	7-2
732-06.36	36 IN. PRECAST CONCRETE FLARED END SECTION /	7	EA 🦢	74
732-10.16	24 IN. SAFETY SLOPE END SECTION	V .	EA -	1 2

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## MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION SUMMARY OF QUANTITIES

SHEET 2 OF 2

STATE | JOB NO. | J7P0352B | 7 |

PROJECT NO. | FAF-60-1(16) | 7 |

OT | CONTRACT ID 021213-703 | 60

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FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered that the project be constructed.

/2/23/03 Date

PROJ. ACCEPT: //-/3-03

BY: John Eskhyst 12/23/03

DIST. OFFICE: MUSSIC SLETCH 1-7-04

SUPPORT CTR: Charl & Holder 4-14

### MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

### **SUMMARY OF QUANTITIES**

TACK

LIQUID COAT MC 30 STRIP

BITUMINOUS BASE

MIN AGGR BINDER

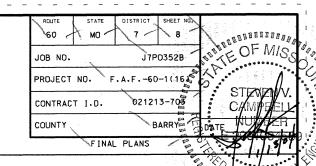
ASPH. MIN AGGR BINDER

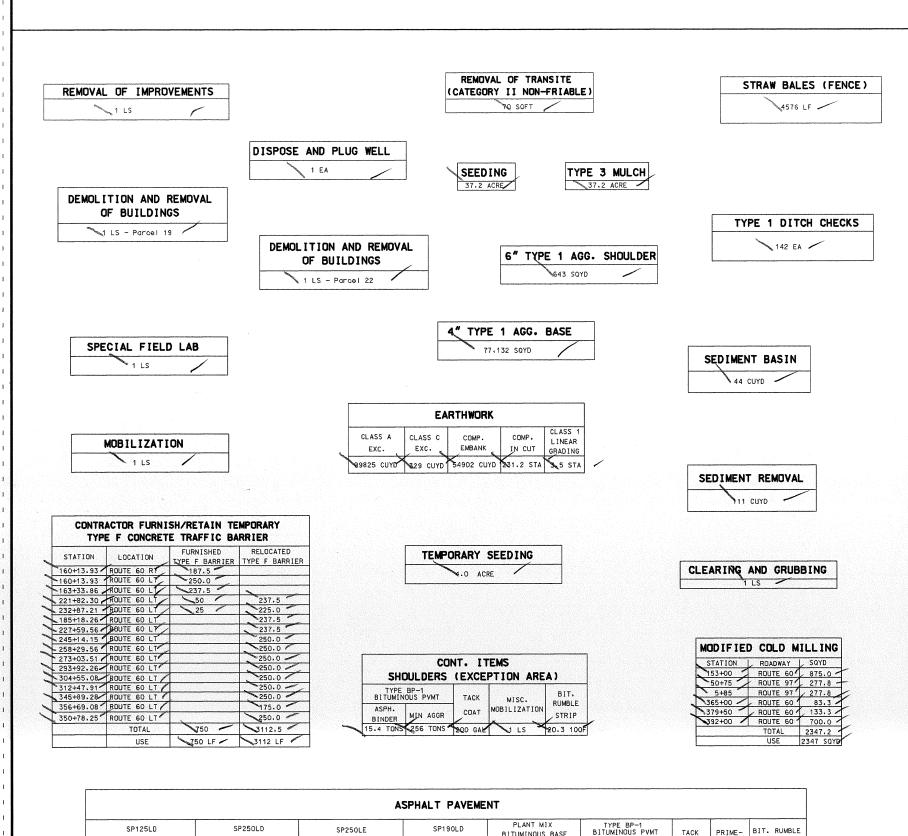
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AINT)	5	YELLOW		24." WIDE (YELLOW)		LEFT ARROW	ARROW (WHITE)	ARROW (WHITE)	4" INT./ YELLOW	4 SOL 10 YELLOW	4" SOLIDA WHITE	NUADWAT	31411011
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	+			30 /					2420 -	1320 / 4830 <b>&lt;</b>		ROUTE 60	87 345+18 18 369+33
	士								2420	7030	<b>/</b>	ROUTE 60	18 369+33
	Ţ				15		0.00			510		ROUTE 60	33 371+90
-	+			<b></b>	12						discontinuo de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de la constanti de	ROUTE 60	372+03
-	+								ļ		210 5200 A	ROUTE 60	93 375+07 50 344+50
	1									5200	2200	ROUTE 60	50 344+50
\$1000					28 -		10001000			600 /		ROUTE 60	04/376+05/
	4			entrape - Sin		Paragraphy (					3810	ROUTE 60	63 392+68
	+	<u> </u>							1380	_	<b>/</b>	ROUTE 60 /	05 389+82 05 389+82
	+		<del>                                     </del>						1300	2750	-	ROUTE 60	05 389+82
	I							-2 /		610 /		ROUTE 60	82 - 392+89 /
	-	1980											25/392+61/
150	+	<u> </u>		ļ	<del> </del>			ļ			<b>}</b>		50 344+50 0 00 344+50
150	+		~	_	/0	<u></u>	/		/4	,	<del> </del>	NUUIE 60	UU 344T3U '
900		1980	780	171	87.5	2	4	22	4422.5	51270	59010	TOTAL	

SHEET 1 DF 4

### MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

**SUMMARY OF QUANTITIES** 

 			4	100	UIHIII	IIHIIIII.		
60	STATE MO	DISTRICT 7	SHEET NO.		En:			
JOB ND.		<b>J</b> 7P	0352	J	ENNIF	ERL		
PROJECT	NO. F	.A.F60	-1(=6)	عارا	ALL S	<b>XVIVH</b> V BER		
CONTRAC	T I.D.	02121	3-75		E-26			
COUNTY		Ŋ₿	ARRY	MAT	5.12715	<u>\</u> 2003		
 	FINAL	PLAN5					4	
					12/2	3/03		

## ENTRANCE AND SIDE ROAD QUANTITIES (EXCLUDES FARM ROADS AND STATE ROUTES)

												PRECAST CONCRETE
		ENTR.			TYPE A	7				CLASS III	GROUP B FLARED	FLARED END
		SURF.	ENTRANCE	TYPE S	CURB &		PIPE CUL	VERT GR	OUP B	RCP	END SECTION	SECTION
STA. LOC. ROAD WIDT	H RADII	TYPE	TYPE	CURB	GUTTER	GUTTER	15"	18"	24"	18"	15"	18"
FT	FT /			LF	LF	-	LIN FT	LIN FT	LIN FT	LIN FT	EA	EA
157+00 LT ROUTE 60 60		AC /	1/			-			-			
1+78 RT ROUTE 97 20	10	AC	· · · · · · · · · · · · · · · · · · ·						34			
2+38 LT ROUTE 97 12	10 /	AGGR -					66 2	<u> </u>	52			
165+47 RT ROUTE 60 30	10 7	AGGR	<del>-                                    </del>	<i></i>		-	54	<i></i>				
170+00 LT ROUTE 60 40	10	AGGR 2				-	66 -	/	<del> </del>			
173+53 RT ROUTE 60 20	10 -	AGGR 1	- i						<b></b>			
183+06 LT ROUTE 60 30	10 1	AGGR	1			1	56 -					
192+28 LT ROUTE 60 20	10 0	AGGR ~	ī	<del>y</del>				4	44			
192+46 RT ROUTE 60 27		AGGR	1	<i>,</i>								
193+54 RT ROUTE 60 27	10	AGGR 🗸	I									
194+26 LT ROUTE 60 20	10 /	AGGR 🗸	I	<u>/</u>				48				
194+40 RT ROUTE 60 12	10 /	AGGR 🗸	I	, 				31	<u></u>			
201+81 LT ROUTE 60 20	10 /	AGGR V	<u> </u>	, 				.48				
208+00 LT ROUTE 60 20	10 0	AGGR -	I '			-		48				
212+13 LT ROUTE 60	10	AGGR V	· · ·			ļ				60 /		2 "
215+23 LT ROUTE 60 35 223+86 LT ROUTE 60 35		AGGR AGGR	I			-	45	45				
	10 /	AC AC	1	,		-	432		<del> </del>			
	10	AGGR 1	1			-	42 /	<b></b>	-			
	10 /	AGGR	·i	<u> </u>		<del> </del>			<del> </del>			
237+62 LT ROUTE 60 42		AC 4	1111	<u> </u>		-	68					
238+68 RT ROUTE 60 14		AC 4	I	,						***************************************		
241+16 LT ROUTE 60 30	10/	AGGR -	. 1				56					
242+35 LT ROUTE 60 30	101	AGGR 🛩	I									
249+39 RT ROUTE 60 20	10 0	AC 🗸	I	/								
	100	AGGR ₩	I									
250+53 RT ROUTE 60 20		AGGR 4	I	, ,,,		-						
255+37 LT ROUTE 60 20		AGGR 4	I	<del>,,</del>			46		/			ļ
259+83 LT ROUTE 60 23		AGGR 4	I				10	51	-			
262+65 LT ROUTE 60 22 268+01 RT ROUTE 60 22	30	AC AC	III	·			48	ļ	ļ		<del> </del>	
282+35 RT ROUTE 60 12	10 /	AGGR	1 L	,					<del> </del>			
286+05 RT ROUTE 60 20	10	AGGR •	1 4	<b>/</b>					<del> </del>			ļ
286+54 LT ROUTE 60 26	30 /	AC 60	1111	62					<del> </del>			
289+96 RT ROUTE 60 27	10/	AGGR -	I w						<b>†</b>			
292+55 LT ROUTE 60 20	10	AGGR 4	I	/			46 -					
292+75 RT ROUTE 60 14	10 /	AGGR	I				,	_				
296+80 RT ROUTE 60 20	10	AGGR	I				30					
299+18 LT ROUTE 60 28	30	AC	III	66.5			66 -					
301+45 LT ROUTE 60 60	10	AC "	1111						92 -			
305+10 RT ROUTE 60 12	10	AGGR 🗸	I -	<i>p</i>			39 /		<u> </u>			
305+63 LT ROUTE 60 40	10	AGGR 4	_ I	,		<b>-</b>	64		ļ			
306+59 LT ROUTE 60 12 307+50 LT ROUTE 60 21	10	AGGR 4	1	<i>*</i>	<b></b>		36 /		<del> </del>		<del> </del>	
310+23 LT ROUTE 60 20	10	AGGR AC	1			-		46				
311+28 RT ROUTE 60 30	10	AGGR 4	1 1	·		+	40 /	10	<del> </del>			<u> </u>
311+97 LT ROUTE 60 12	10	AGGR 4	+ + -	Ø		+	4-10	48	<del>                                     </del>			
315+50 RT ROUTE 60 20	10	AC AC	I	£			46		t	<u> </u>		
316+42 LT ROUTE 60 20	10 -	AC -	I	<del>/</del>				48 -				
317+90 RT - ROUTE 60				<i>a</i>						-55		2
11+76 RT FR 1060 12	10	AGGR 🛩	I	e .								
11+80 LT FR 1060 20	10	AGGR 🗸	ı I	<i></i>			46					
318+06 LT ROUTE 60 40	10	AC 💆	I					55				
320+70 LT ROUTE 60 20	10	AGGR 6	I =		/		46	k	<u></u>	ļ		
		UBTOTAL (	A)	128.5			~1006 <b>✓</b>	<b>√</b> 468 ≈	222	115		4
					L			L		L	L	l

					ENTR.	ENTRANCE	TYPE S	TYPE A	TYPE A	PIPE C	CULVERT (	GROUP B	CLASS III	GROUP B FLARED END SECTION	PRECAST CONCRETE FLARED END SECTION
STA.	ILOC.	ROAD	WIDTH	RADII	TYPE	TYPE	CURB	GUTTER	GUTTER	15"	1 18"	1 24"	18"	15"	18"
			FT	FT			LF	LF			LIN FT	LIN FT	LIN FT	EA	EA
323+13	RT	ROUTE 60	20	20'RT/30'LT	AGGR	I									
323+23 /	LT	ROUTE 60	20/	30	AC	11									
8+87	RT	W. CRESTWOOD	20 /	10	AC -	1		***************************************		30 -	1.			***************************************	
324+77	LT	ROUTE 60	16	10	AGGR ~	1	,			40 /	1,	T			
327+14 /	LT	ROUTE 60	. 18	30	AC V	111				43 -				2	
9+33	RT	E. CRESTWOOD	12 2	10	AC /	1						1			
328+59	LT	ROUTE 60	15	10	AC -	1				41 ~					
328+92 /	RT	ROUTE 60	29	30 -	AC ~	11/	25 V			54 -	7			2	
329+06 /	LT	ROUTE 60 /	16 /	10 🗸	AC ~	1 1/	-			42 -	7				
329+85 🗸	LT	ROUTE 60 /	13	10 🗸	AC "	1/	l .			39 ~					
331+91	LT	ROUTE 60 🗸	23	10 /	AC -	1/					45	1			
333+20	LT -	ROUTE 60 /	18	10	AGGR	1/						32 -			
335+90 🗸	LT -	ROUTE 60	16	10 /	AGGR -	1 1						4			
337+17 ~	LT	ROUTE 60 🗸	12	10	AGGR -	1						44			
339+77 🗸	RT -	ROUTE 60 /	24	10 /	AC -	1 /			,	1		56 ~	1		
342+40 🗸	RT ~	ROUTE 60 /	44 -	75	AC -	II				100 -	1			³ 2 /	
344+75 🗸	LT -	ROUTE 60	14	10	AGGR 🛩	1 =									
~345+40 V	RT 🛩	ROUTE 60	20	10	AC -	[ ]									
346+75	RT -	ROUTE 60 /	13	10	AGGR 🗸	[ ]									
352+44	RT 1	ROUTE 60	22 🎻	30	AC W	11/		40	44						
355+49	LT /	ROUTE 60 🗸	12 -	10 /	AGGR -	1 -									
357+40 🗸	RT -	ROUTE 60 🗸	40 🗸	30 🗸	AC 🗸	111	81				66				
357+64	LT _	ROUTE 60	30 🗸	60	AC -	_ 1 1 1 1	1								
360+06	RT -	ROUTE 60	50	20	AC am	1111	40 /								
360+40 -	LT -	ROUTE 60	17	10	AGGR -	1 0									
<u>~380+36</u> ✓	RT -	ROUTE 60	30 سمن	30 🗸	AC ~	11									
~ 385+73 🗸	RT -	ROUTE 60	30	30	AC -	11	İ					<u> </u>	1		
~386+56 €	LT -	ROUTE 60	35	<del> </del>	OVERLAY	7 1111	12								
388+43	LT "	ROUTE 60	35 🗸	30 AC	OVERLAY										
<b>~3</b> 88+80 ✓	RT "	ROUTE 60	14 🗸	10	AC 🗸	[									
								/						FINAL P	HANG
					STOTAL (		128.5			1006	468	222	115		
				SUE	STOTAL (	B)	158	40	44	389 🤻	111 %	ertify	that th	ic nlan ch	eet Secourated

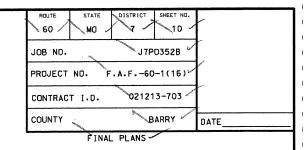
configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered that the project be constructed.

Signature

Date EET 2 OF 4

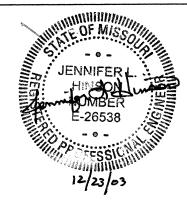
### MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

**SUMMARY OF QUANTITIES** 



SHEET 3 OF 4

								,		AD DOM	A110 1 1	1 2 00	LVERTS								
SHEET				BOX SIZE	CL 3 EXC	CL B CONC (CULVS)	REINF STEEL	CLASS III REINFORCED CONCRETE PIPE			PRECAST CONCRETE FLARED END SECTION		SAFETY SLOPED END SECTION			PIPE COLLAR	ROCK LINING	FURN. TYPE II ROCK	PLACING TYPE II ROCK		
	RDWY	STA	SIDE				(CULVS)	. 24"	30"	36"	48″	24"	36"	24"	30"	36"	48"	TYPE C		DITCH LINER	LINER
13	RTE 60"	158+93.43			165 /					-162			~ 2						12		
N13 7		160+13.93		3 X 2 /	38 /					~ <u>√</u> 58 ″						1/		N1 /	12		
13 /		160+13.93	+	3 X 2	21					45		L			-	1_/_		1/	\		ļ
13 /	<u></u>	160+50.00-			122	×>		1	192 -	-		<b>_</b>		+	4				118		<del> </del>
13 /	Į	163+33.86		6 X 4	34	19.6	2540		ļ			<del> </del>	ļ	+			<del> </del>	<del> </del>	1118		<del> </del>
13 /		163+33.86	RIGHT	6 X 4 🗸	7 /	15.8	2150 /			<del>                                     </del>		<del> </del>						ļ			-
15	PTE 60 3	185+18.26	LEET A	6 X 4 /	. 26	23.4	3040			<b></b>		<del>                                     </del>		<del> </del>					<b>\66</b> /		
~ ( )	WIL GO >	103110120	LEIT	0 7 4 -	. ~ 20	2311	3010	<b></b>		<b>†</b>		<del>                                     </del>						1. /			
19 /	RTE 60	221+82.30	LEFT	2 X 1.5	8 /			31 -						<b>\1</b>				1	. \ 4 /		
19 /		227+59.56			₹21 ✓	23.3	2740												84		
19 /		232+87.21	LEFT /	3 X 2 /	4 /					24								1/	61 /		-
	<u></u>				ļ									<del></del>				ļ	46		
20 -	VRTE 60≥	245+14.15	LEFT -	5 X 3 /	28	17.1	1960 -											<del> </del>	46		
	DTE CO	258+29.56	VICET !	1 1 2 5 /	23	<b></b>		ļ		-	32/	<del> </del>		<del> </del>			110	11-	31		<del> </del>
121	WIE OU	\$230T29.36	LEFT	4 X 2.3 *	723 /	<del> </del>					432.0	<del> </del>	/	<del>                                     </del>			-				<u> </u>
22 -	RTE 60	266+19.83	I FFT		53		·	40			A	11/		1.					5	1	
22 /		266+19.83						35						1 7							
22 /		273+03.51	LEFT	4 X 2	6					39/			1	1				1 /	12 -		
	<b>\</b>													ļ							<u> </u>
24	RTE 60	277+97.52	LEFT /	6 X 4 🖋	26	29 /	3340			ļ				<u> </u>					76		<del> </del>
·		<u> </u>	ļ J	,	ļ					-					1/			11/	ļ	h	<del> </del>
	RTE 60	293+92.26		2 X 2	13 /	ļ			20		*				117				5		-
25 /	<del> </del>	293+92.26 304+55.08		2 X 2 -		<b> </b>		<del> </del>		+		-		-				+	<del>                                     </del>	₹4.4 €	14
25 /	-	304+55.08		6 X 4 🖋	717	34.4	3920	<del> </del>				+	<u> </u>	<del> </del>				<b></b>	100	<u> </u>	<del>  3</del>
23 -		(304+33:00	CEITE	0 7 7 3		3.3.	3320 **					<b>†</b>	<u> </u>							1	
26	RTE 60	312+47.91	LEFT	6 X 4 /	26	27.2	3200												51 /		
																					<u> </u>
28	RTE 60	338+78.29		11 X 9 🖊	900	199.4	28490												`227 ~		L
28 🗸		338+78.29	RIGHT	, 		<u> </u>				ļ	***		ļ							895 -	895
×	, '				\	-		10				1/	<u> </u>	-			<b></b>	1 /	5 /		+
	RIE 60%	345+89.28		2 X 1.5 ~		<del> </del>	ļ.,	21		+		+	-	11/	<del> </del>			1		[	<del> </del>
29 -	<del> </del>	345+89.28 350+78.25		2 X 2		<del> </del>		1 21	<b> </b>	32		<del>                                     </del>	1 /					312	5		
29 -	<del>                                     </del>	350+78.25		2 X 2	2		<b> </b>	<b> </b>	<b> </b>	20		1	T			1/		1			
29 -	T	356+69.08			8	18.5	2250	l											89		
-29 -		356+69.08				20.2	2450 🗸	1													
								<u> </u>										1	-		<del></del>
		381+87.78				<b> </b>		-			<del>\</del>	<b>_</b>		-			\ <i></i>	1-	20	<del></del>	+
≥31 🛩	<u> </u>	381+87.78	RIGHT	6 X 2 🗸	~ 2 /	-		ļ			5 /	-		<del>                                     </del>			1	1 1 2		<b></b>	+
	<b></b>	L	b		75	19.7	2710	<del> </del>	<del> </del>	1		<del> </del>	<del> </del>	-				+	118 /	<u></u>	<del> </del>



	CONCRETE MEDIAN STRIP														
	RDWY		STA	TION											
			FROM	TO	LOC	LOC	CONC								
			,												
	ROUTE 6	6Q2	159+174	159+35	28' RT/	46' RT	22.90								
7	ROUTE 6	60,	159+22	159+39	_ 28' LT /	44' LT	19.10								
	ROUTE 6	60(	159+74	159+92	45' RT	28' RT	20.30								
1	ROUTE 6	60∢	159+78	159+92	42' LT	28' LT'	15.10								
~	ROUTE 9	977	51+71	52+47	, 2' LT -	2' RT	33.20								
٩	ROUTE S	9 7 ³⁴	0+41	1+20	2' LT -	2' RT ~	33.40								
						TOTAL `	144.0 SQYD								

### FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered that the project be constructed.

Signature

 $\frac{12/23/63}{\text{Date}}$ 

### SUMMARY OF QUANTITIES

616-10.05

616-10.10

CONSTRUCTION SIGNS TOTAL

RELOCATED SIGNS TOTAL

DESCRIPTION

RIGHT LANE/CENTER LANE/LEFT LANE CLOSED AHEAD

		ES						·	JOB ND.	MO 7 11 RESIDENCE OF MIS
	I	- I		T	Ι			٦		
				4 5	aTY RELOC	TOTAL RELOC AREA			PROJECT N	0. F.A.F60-1-669 STEVEN
SIGN	SIZE	AREA	QTY	TOTAL	12 11	무프품	DESCRIPTION		CONTRACT	1.D. 021213 703 CAMPBE
	(INCHES)	(SQ FT)		= 4	2 22	7 H A				
	I			W	A DN T N	IC SICA	NS (CONT.)	-	COUNTY	BARRY CATEOUTOU
	10075			VV :	HLINTI.	310		1	TOTAL	FINAL PLANS
WO22-2 WO22-3	42X36 42X36	10.5				Market and All Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Contro	TURN OFF 2-WAY RADIO AND PHONE END BLASTING ZONE	I TEM NUMBER	TOTAL QTY	DESCRIPTION OFFESSION
W025-5	30X12	2.5					½ MILE/1 MILE (PLAQUE)	612-10.10	UK I	TEMPORARY BARRICADE
	L			L	DEC	III ATOD	Y SIGNS	612-10.20		RELOCATED TEMPORARY BARRICADES
				1	REG	ULATUR		612-10.40		PERMANENT BARRICADE
R1-1 _	48X48 <	13.00	*2 .	26 -	<u> </u>		STOP	612-20.08		IMPACT ATTENUATOR (8 SAND BARRELS)
R1-2 R1-3	48TRI .	6.93			<b></b>		YIELD 4-WAY (PLAQUE)	612-20.09		IMPACT ATTENUATOR (9 SAND BARRELS)  IMPACT ATTENUATOR (10 SAND BARRELS)
R1-5	20X9 20X9	1.25					3-WAY (PLAQUE)	612-20.12		IMPACT ATTENUATOR (12 SAND BARRELS
R2-1b -	36X48	12.00	18 -	216 -	-		SPEED LIMIT 4 @ 60, 10 @ 45, 4 @ 35	612-20.14		IMPACT ATTENUATOR (14 SAND BARRELS
R2-5a _	36X48	12.00	4	48 -			REDUCED SPEED AHEAD	612-20.17		IMPACT ATTENUATOR (17 SAND BARRELS
R3-1	48X48	16.00					NO RIGHT TURN (SYMBOL)	612-20.19		IMPACT ATTENUATOR (19 SAND BARRELS
R3-2	48X48	16.00					NO LEFT TURN (SYMBOL)	612-20.20		REPLACEMENT SAND BARREL
73-3	36X36	9,00			<u> </u>		NO TURNS	612-20.30		IMPACT ATTENUATOR (RELOCATION) TRUCK MOUNTED ATTENUATOR (TMA)
R3-4 R3-7L	48X48 30X30	16.00 6.25			<b> </b>	***************************************	NO U-TURN (SYMBOL) LEFT LANE MUST TURN LEFT	1 512-30.00		THOUR MIGURIED ATTENUATOR (TMA)
3-7E 3-7R	30X30	6.25					RIGHT LANE MUST TURN RIGHT	616-10.20	250	CHANNELIZER (DRUM-LIKE)
R4-1	36X48	12.00	***************************************				DO NOT PASS	616-10.25	1	CHANNELIZER (TRIM-LIKE)
74-2	36X48	12.00					PASS WITH CARE	616-10.30 -	4 -	TYPE III MOVEABLE BARRICADE
74-7aL	36X48	12.00					KEEP LEFT (HORIZONTAL ARROW)	616-10.33		DIRECTIONAL INDICATOR BARRICADE
R4-7a	36X48	12.00					KEEP RIGHT (HORIZONTAL ARROW)	616-10.34		DIRECTIONAL INDICATOR BARRICADE,
R4-17aL	36X36	9.00					KEEP LEFT	C40 40 40		WITH LIGHT FLASHING ARROW PANEL
R4-17aR R5-1	36X36 30X30	9.00 6.25					KEEP RIGHT DO NOT ENTER	616-10.40	***************************************	TYPE I OBJECT MARKER
R5-1a	36X24	6.00				***************************************	WRONG WAY	616-10.46		TYPE II OBJECT MARKER
R6-1L	48X18	6.00			<del> </del>		ONE WAY ARROW (LEFT)	616-10.47		TYPE III OBJECT MARKER
R6-1R	48X18	6.00					ONE WAY ARROW (RIGHT)	616-10.50		FLASHING ELECTRIC LIGHT
₹6-2L	24X30	5.00					ONE WAY (LEFT)	616-10.51		WARNING LIGHT, TYPE A
R6-2R	24X30	5.00					ONE WAY (RIGHT)	616-10.52		WARNING LIGHT, TYPE B
710-6	24X36	6.00					STOP HERE ON RED (45° ARROW)	616-10.53		WARNING LIGHT, TYPE C
R11−2 ~ R11−3a	48X30 60X30	10.00	4	* 40 -	<u> </u>		ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY	616-10.54		STROBE LIGHT TYPE I CHANNELIZER/MARKER
R11-30	60X30	12.50			<b> </b>		ROAD CLOSED TO THRU TRAFFIC	616-10.70		TUBULAR MARKER
R12-3b	36X36	9.00			<del> </del>		TO ONCOMING TRAFFIC (PLAQUE)	616-10.71 -	0 -	TRAFFIC BARRIER DELINEATOR, WHITE .
54-4	36X15	3.75					WHEN FLASHING	616-10.72		TRAFFIC BARRIER DELINEATOR. AMBER
STOP/SLOW	18 OCT.						STOP/SLOW PADDLE (STOP/SLOW)	616-10.73		TRAFFIC BARRIER DELINEATOR.
		S	IIPPI	EMEN.	TAI F	LATES	FOR WARNING SIGNS			WHITE / AMBER
WEOE C	1 00/6							616-10.91		RADAR SPEED ADVISORY SYSTEM OPERATION
WF25-6 WO25-1a	20X6 26X9						BRIDGE/RAMP PLATE (USE WITH WF21-4) 1000 FT/1500 FT PLATE	616-10.95		RADAR SPEED ADVISORY SYSTEM
W025-16	38X9				<b> </b> -		500 FT/1000 FT PLATE	616-10.96		CHANGEABLE MESSAGE SIGN,
W025-1c	34X9						500 FT/1000 FT PLATE			COMMISSION FURNISHED
WO25-6	28X9					•	PETROZATP PITEA (NOSWITH WO21-4 OR WO5-1)	616-10.98		CHANGEABLE MESSAGE SIGN.
				7 -	ا عند	HLDF S	IGNS			CONTRACTOR FURNISHED, CONTRACTOR
2000 1	COV.60	P10 003	-	1 C	cruiy'	wat t	nis GN plan sheet accurately depicts the	616-11.00		RETAINED CHANGEABLE MESSAGE SIGN,
G020-1 /	60X48 6	10.00	$\frac{1}{2}$	Con	ngurat	on and	ROAD WORK NEXT - 5 MILES	1 - 010-11.00		SOLAR POWERED, CONTRACTOR
G020-9a /	48X24 /	8.00	4	app	ırtenaı	t feature	ROAD WORK NEXT OF MY Knowledge, as I and my			FURNISHED, COMMISSION RETAINED
3020-4	36X18	4.50	7.	staf	have		sol the Acontractor's construction of this	<b>V</b>	/\.	INSTALLING GIVE EM A BRAKE.
3023-1 /	36X12	3.00	22	proj	ect.	I specifi	eally zdisclaim uany responsibility for the	616-11.30	2 -	48 IN. X 48 IN. SIGN
MO4-1	24X12	2.00		desi	gn of		cct, Rexcept 48"1" and my staff may have	616-11.32	> /	INSTALLING SHOW ME PROGRESS SIGN
MO4-8	24X12	2.00					zed the modification of the project design		Ĺ	ASSEMBLY THE NO CENTER STRIPE SICN
M04-8a M04-9L	24X18 48X36	3.00 12.00					tion; and it disclaim responsibility for the	616-11.40	15	INSTALLING NO CENTER STRIPE SIGN '
104-9L 104-9R	48X36	12.00					construction of the project, except as I and	619-10.00	23000	PAVEMENT EDGE TREATMENT
MO4-3R	48X18	6.00						620-80.65	3000	TEMPORARY RAISED PAVEMENT MARKER
MO4-10R	48X18	6.00		шу	- LEDIC		DEFOUR (ARROW RIGHT)	901-94.00		TEMPORARY LIGHTING
M5−1L	21X15	2.19		Con	structe	0,//	ADVANCE LEFT TURN ARROW	902-94.00		TEMPORARY TRAFFIC SIGNALS
W5−1R	21X15	2.19		1	4	1	ADVANCE RIGHT TURN ARROW	902-94.01		TEMPORARY TRAFFIC SIGNALS
M6-1	21X15	2.19		-Z	2	<u> </u>	TURN ARTON	1 - 000 01 10		AND LIGHTING SOLAR POWERED PORTABLE TRAFFIC
M6-3	21X15	2.19		<del>'/-</del>	afure		STRAIGHT ARROW Date	902-94.12		SIGNAL SYSTEM (COMMISSION RETAINED
			С	OMM I	10122	FURNI	SHED SIGNS	902-94.15		RELOCATION OF PORTABLE TRAFFIC
				ı			OTHER A DOLLE	1 - 302 37:13		SIGNAL SYSTEM
CONST-3A	48X48	16.00		l	1		GIVE'EM A BRAKE	1 1		

SAND BLASTING BLASTING ZONE 1000 FT

AREA OTY
TOTAL
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TOTAL
AREA
AREA

WARNING SIGNS

ONE LANE ROAD AHEAD

ROAD WORK AHEAD

RIGHT/CENTER/LEFT LANE CLOSED

WET PAINT (ARROW PIVOTS) TURN (SYMBOL LEFT ARROW)

TURN (SYMBOL RIGHT ARROW)

CURVE (SYMBOL LEFT ARROW)

CURVE (SYMBOL RIGHT ARROW)

REVERSE TURN (SYMBOL LEFT ARROW) /

SIGN

WF20-4

WF20-5

WF21-4

WF22-6e

WQ1-1L W01-1R

W01-2L

W01-3L

WO21-7

W022-1

36X36

48X48

9.0

16.0

W01-2R

WF20-6a

SIZE

(INCHES)

36X36

36X36

36X36

48X48

48X48

48X48

48X48

48X48

36X36 9.00

21X15 2.19

(SQ FT

9.00

9.00

9,00

16.0

16.0

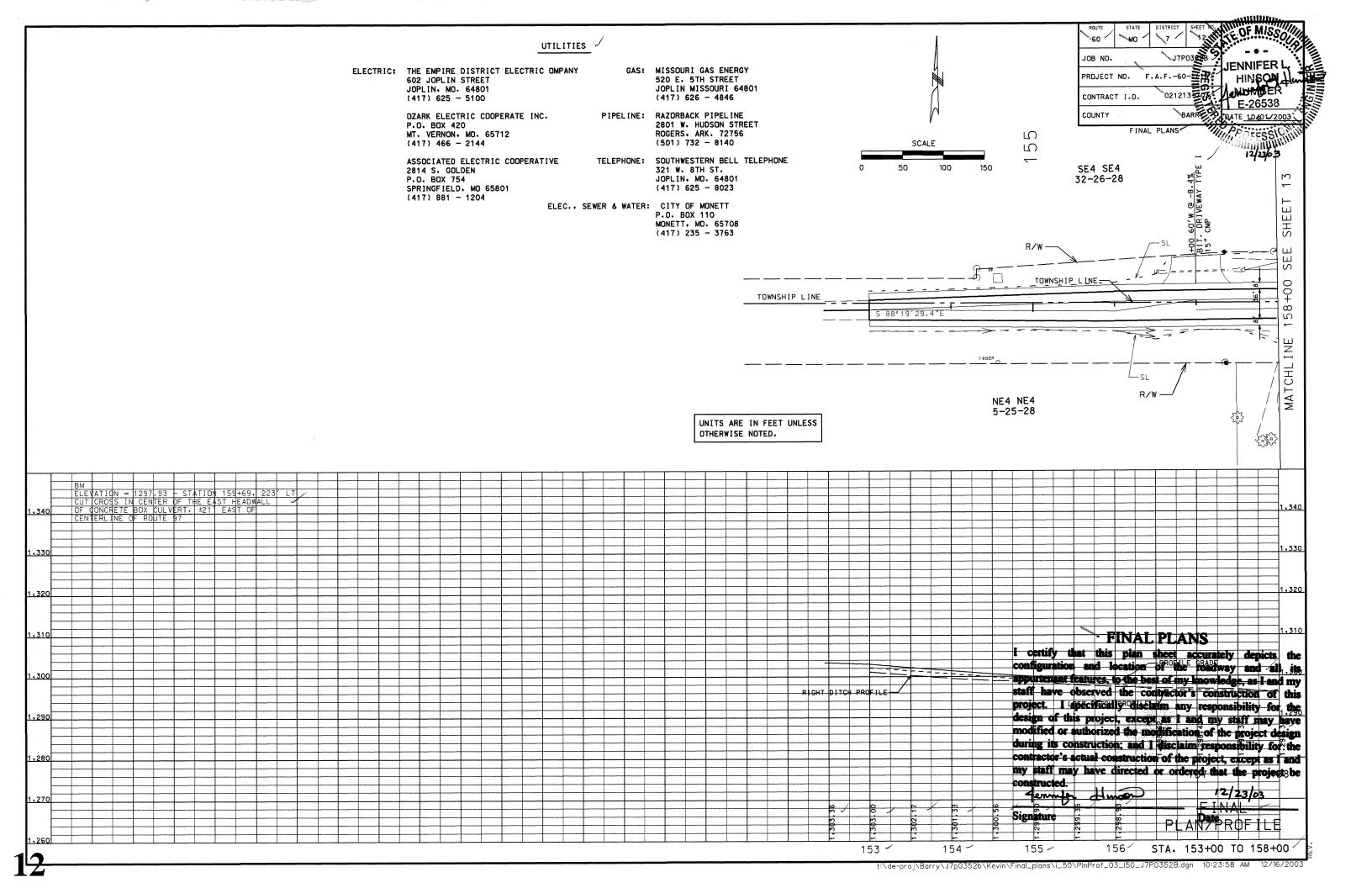
16.0

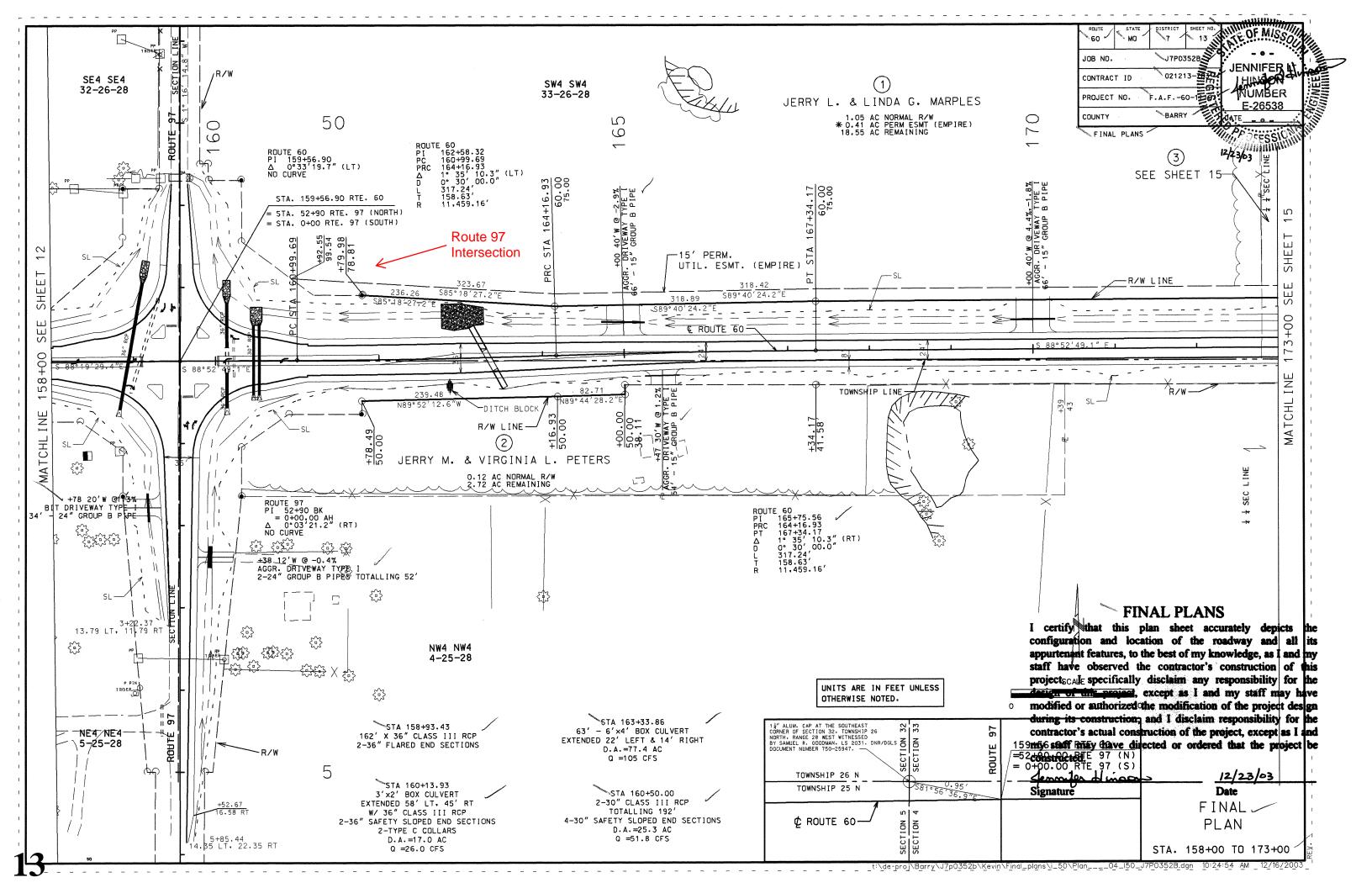
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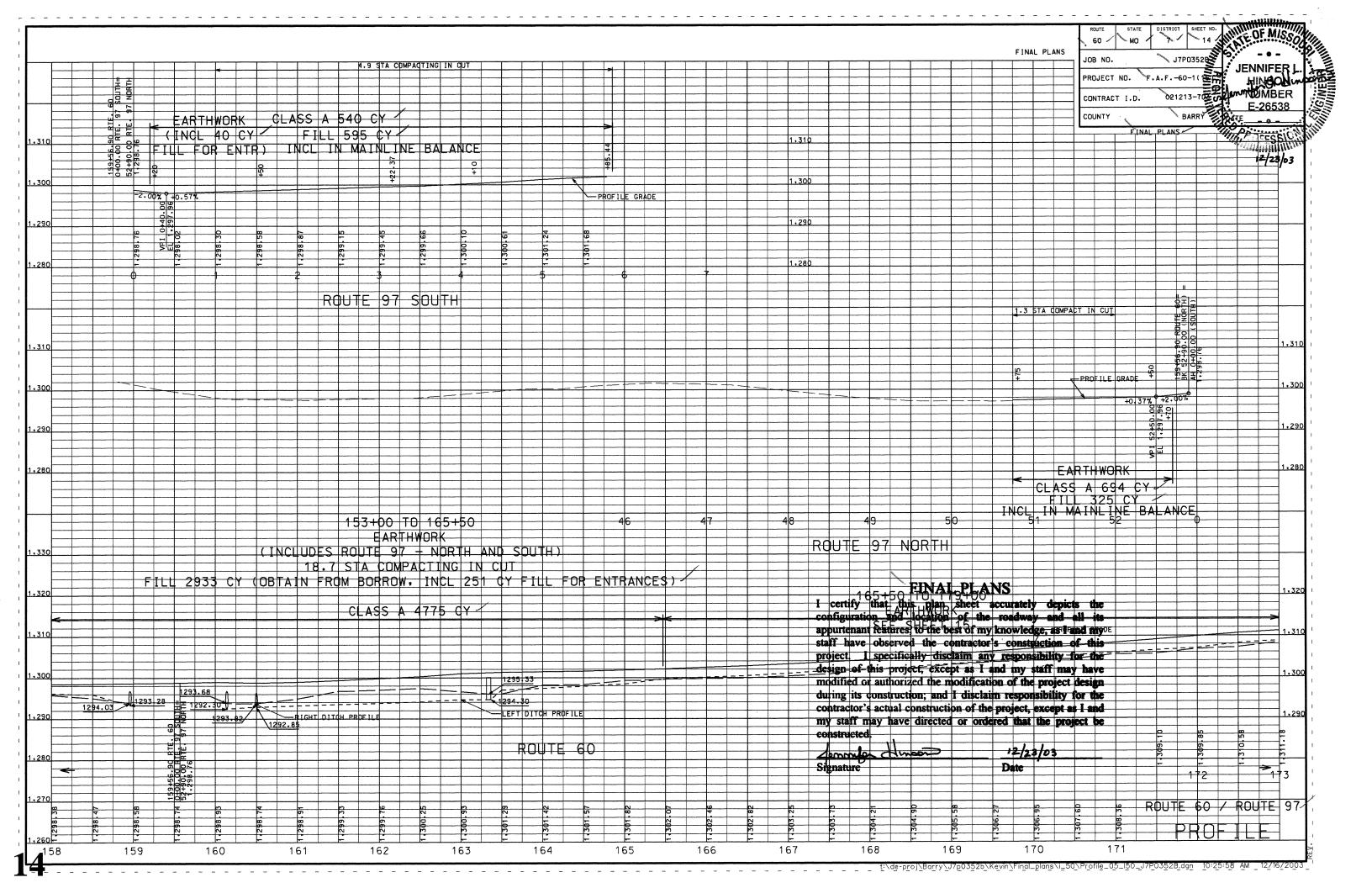
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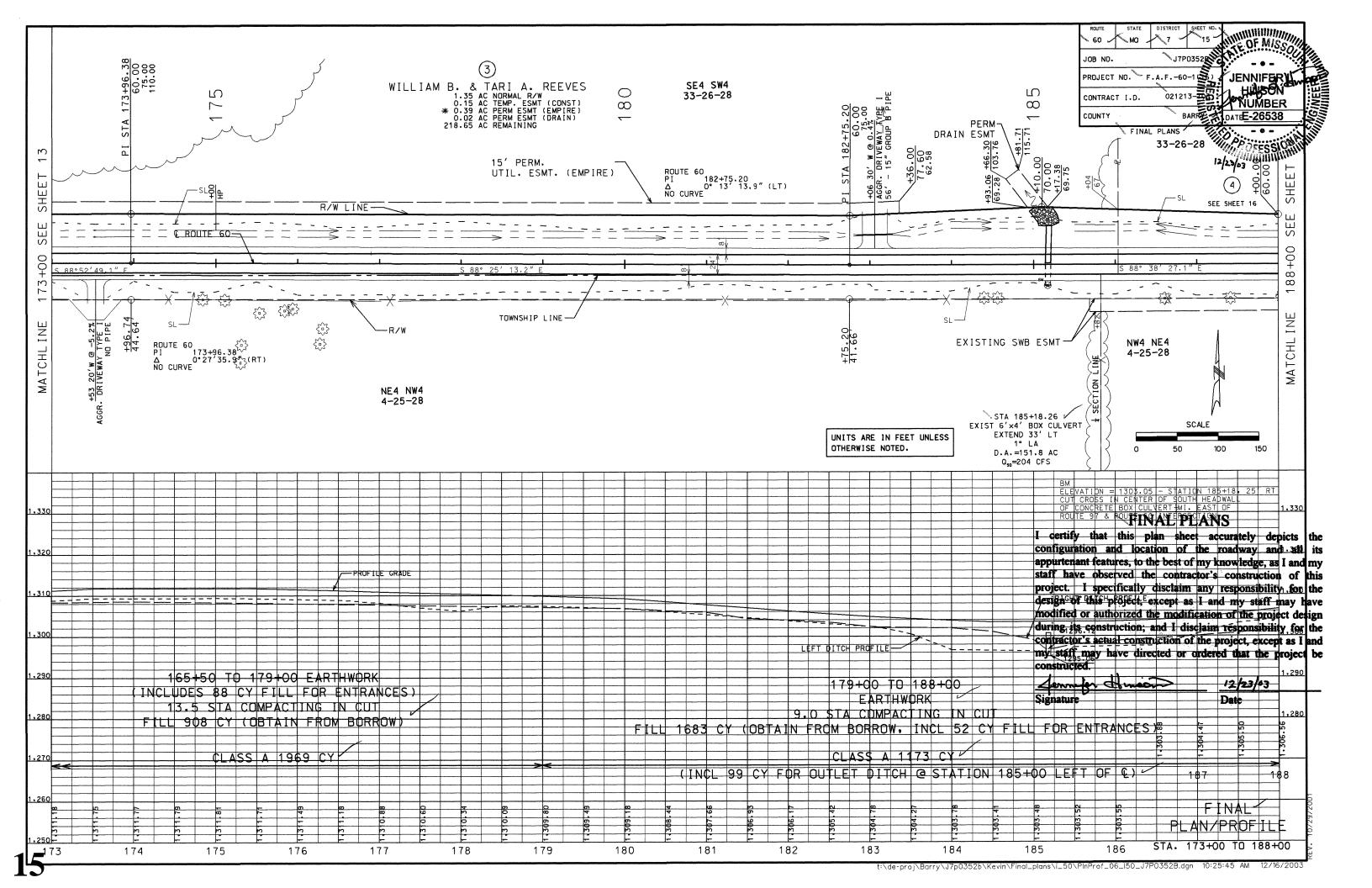
NOTE: ALL WARNING SIGNS SHALL BE FLUORESCENT ORANGE.

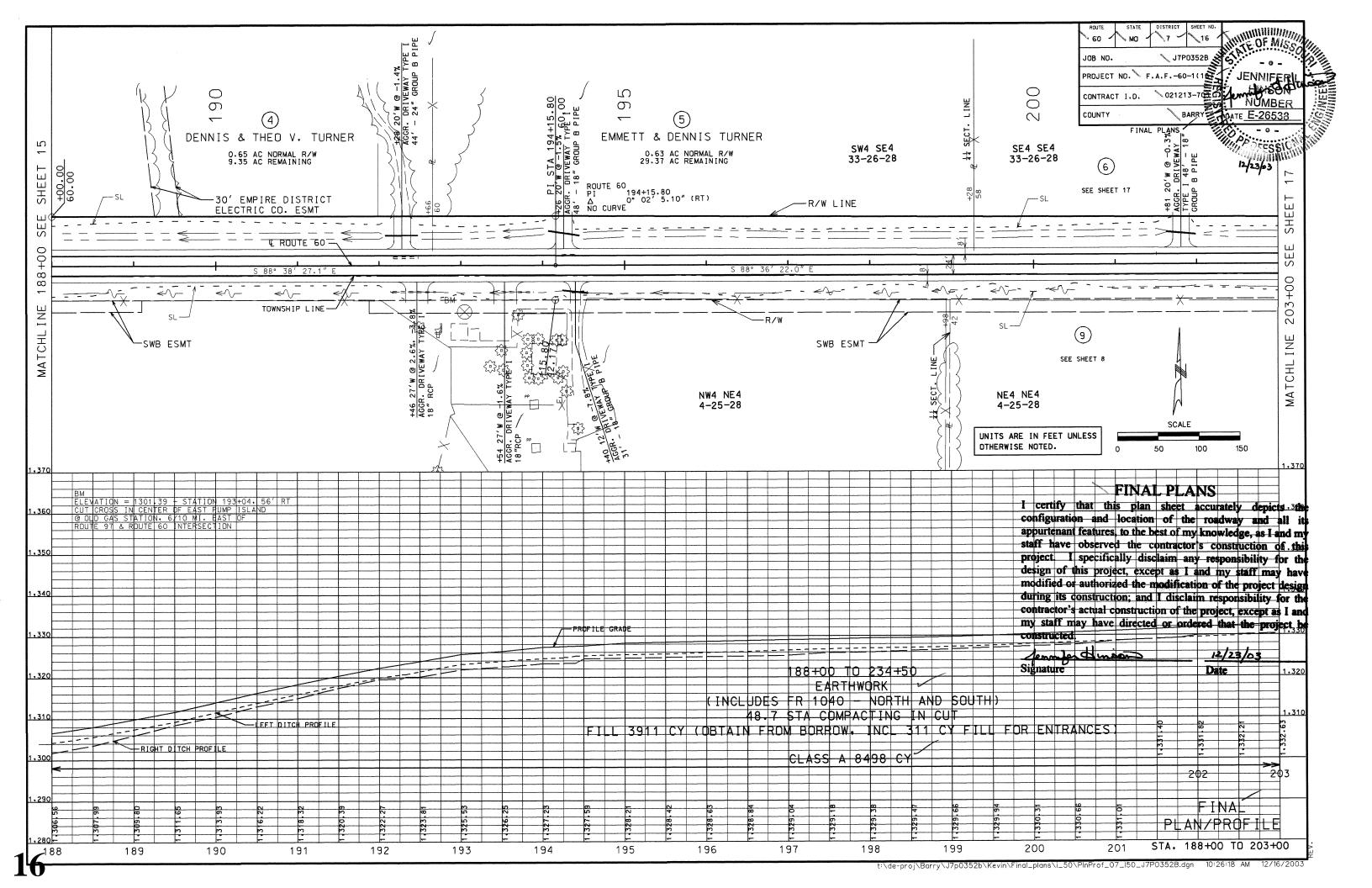
SHEET 4 OF 4

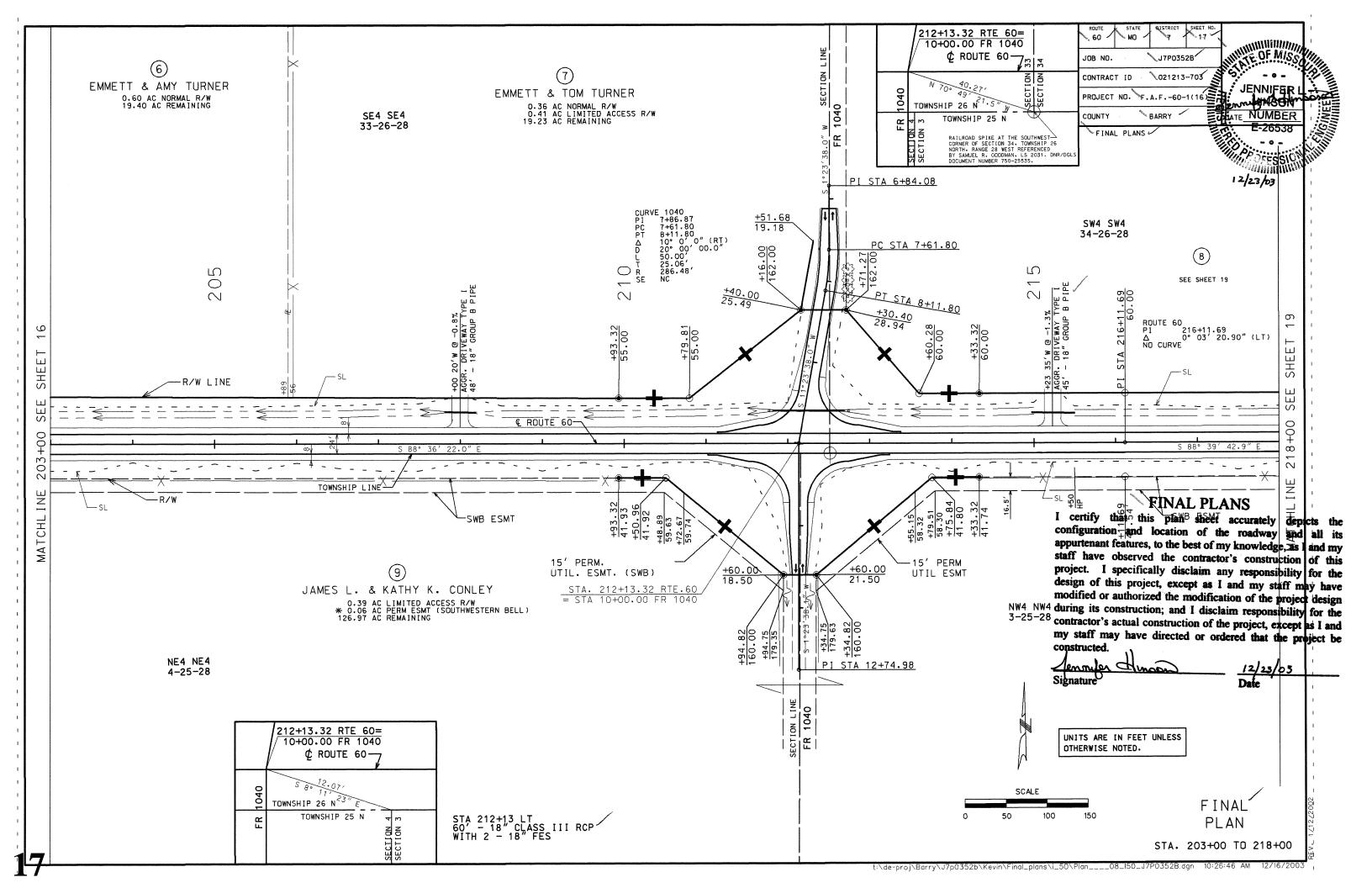


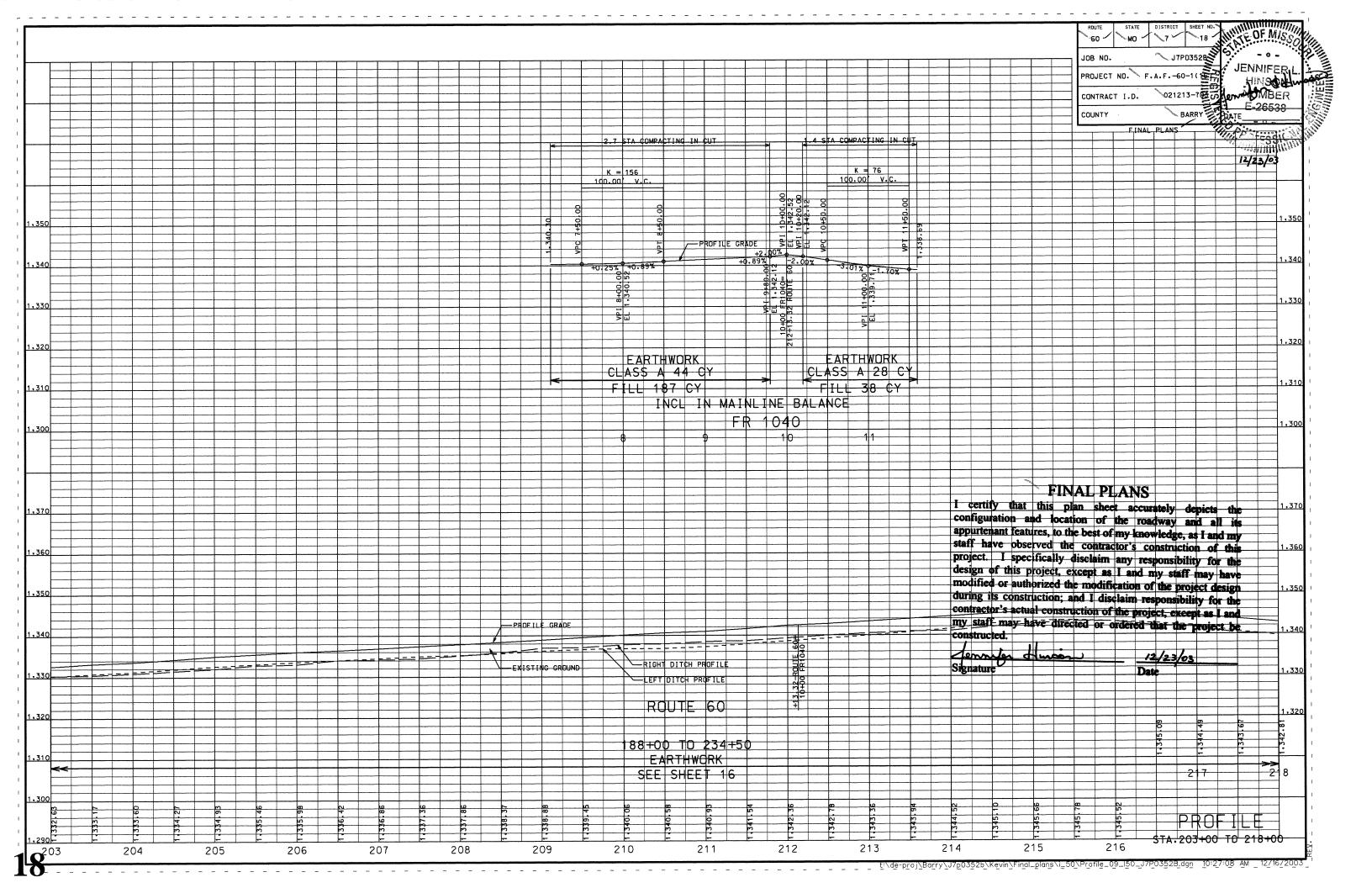


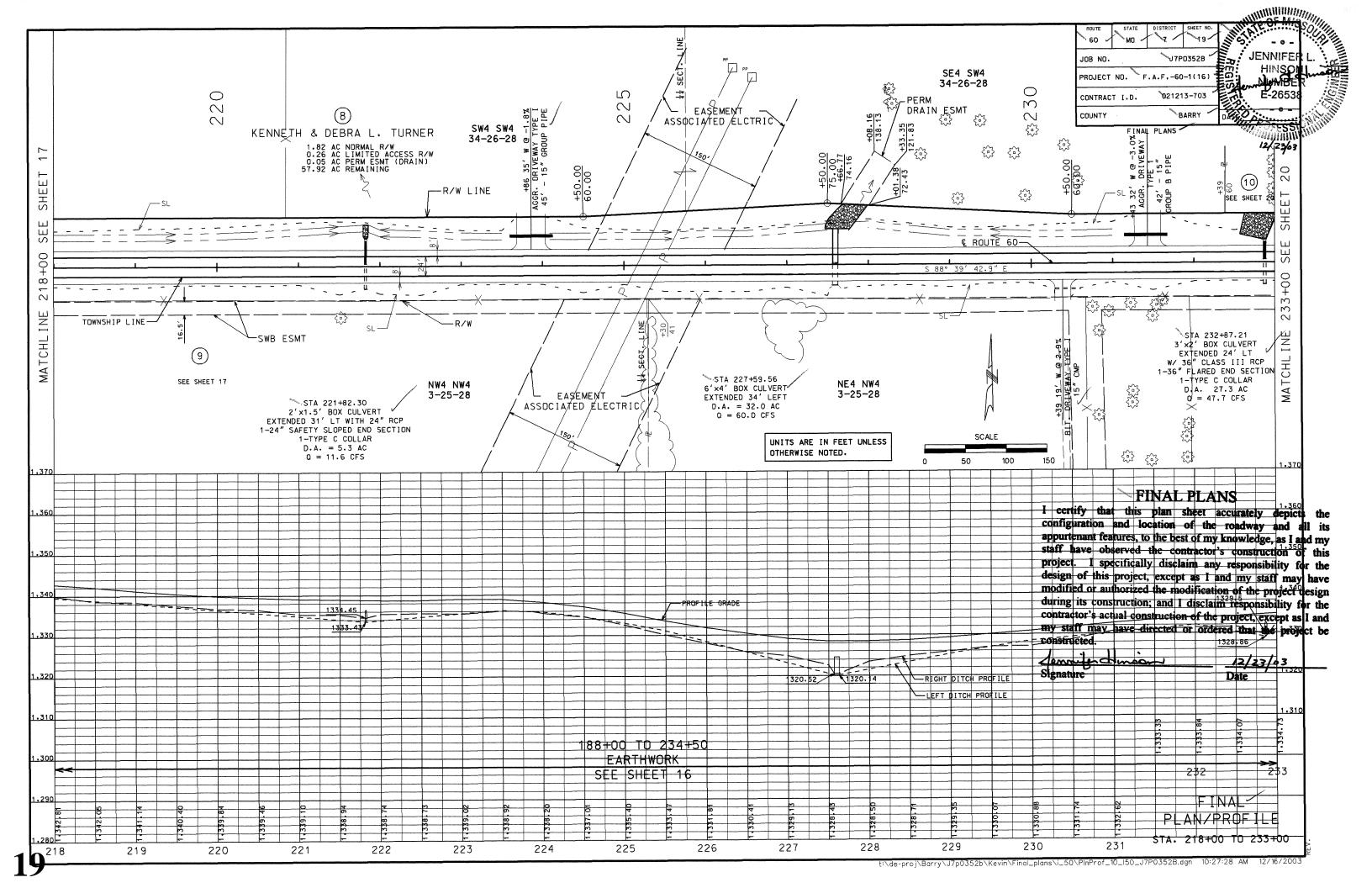


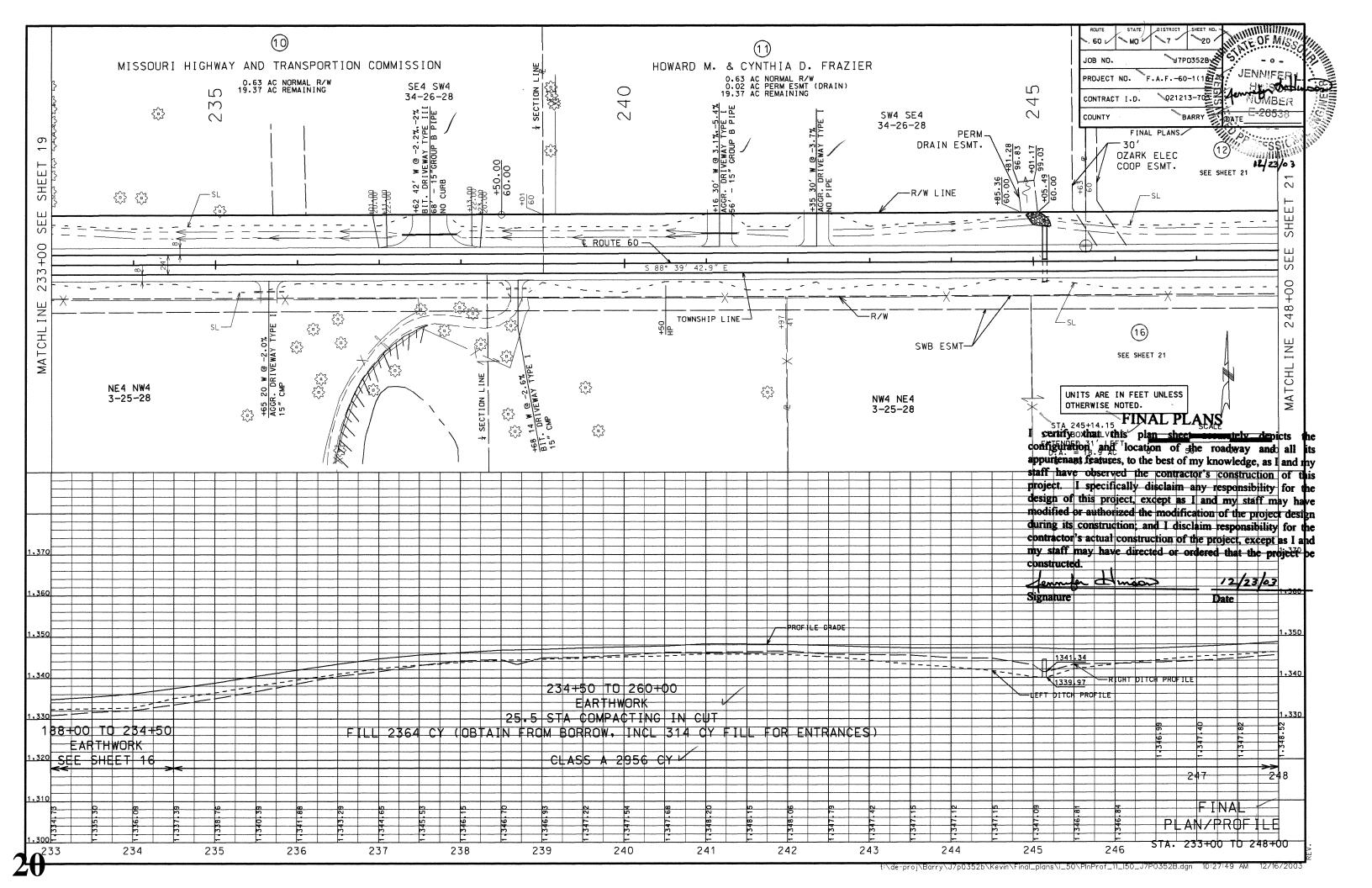


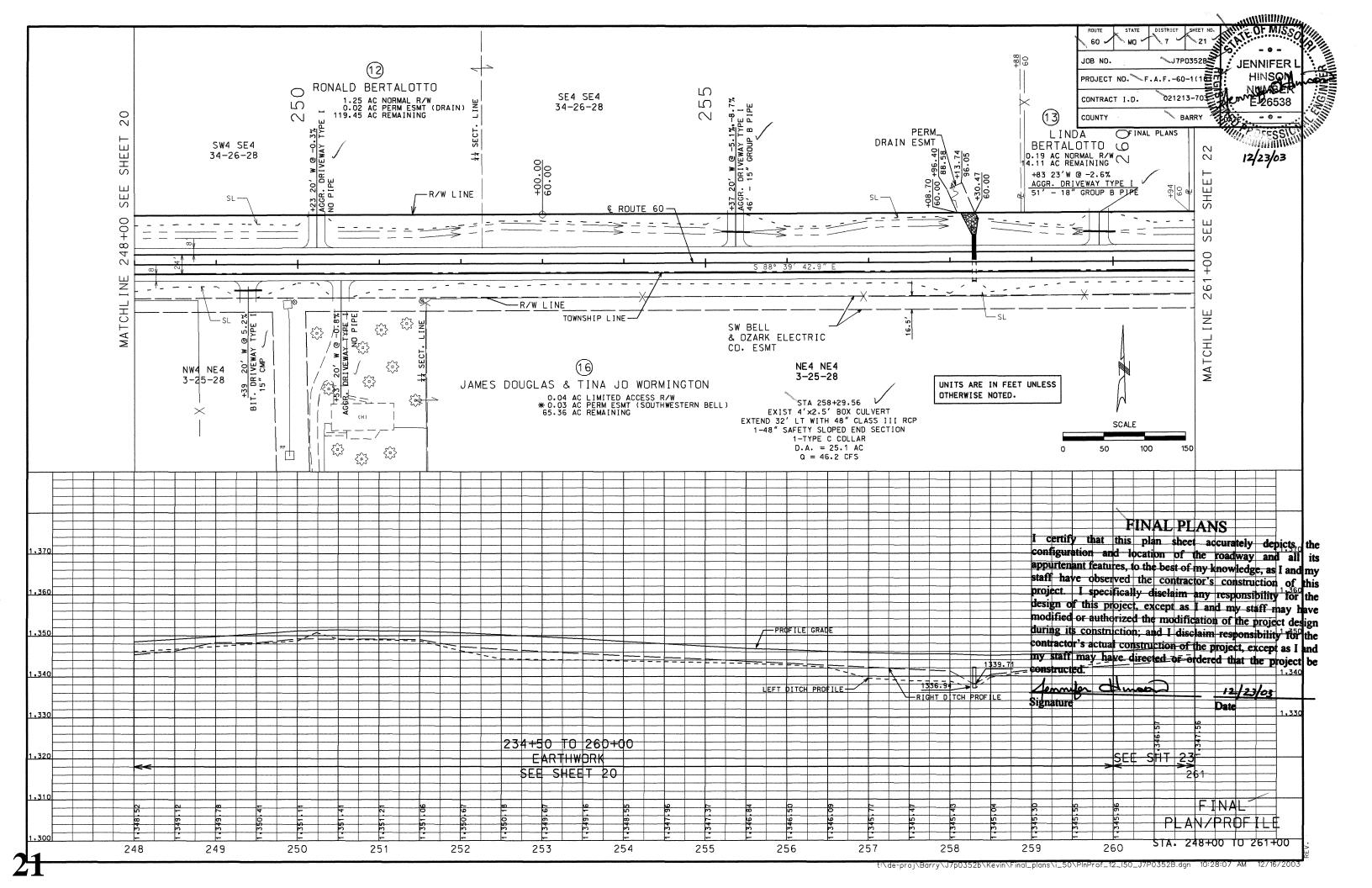


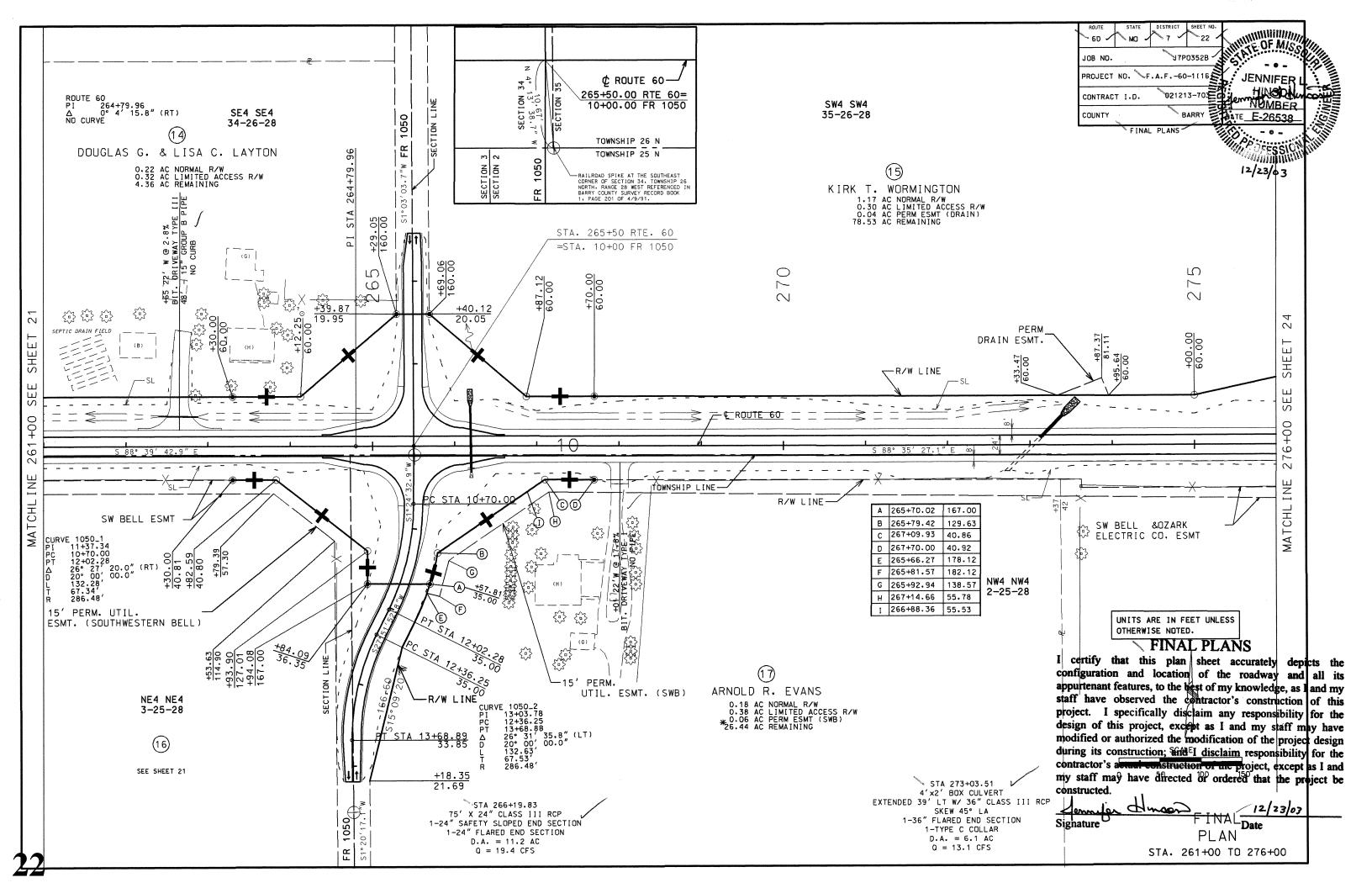


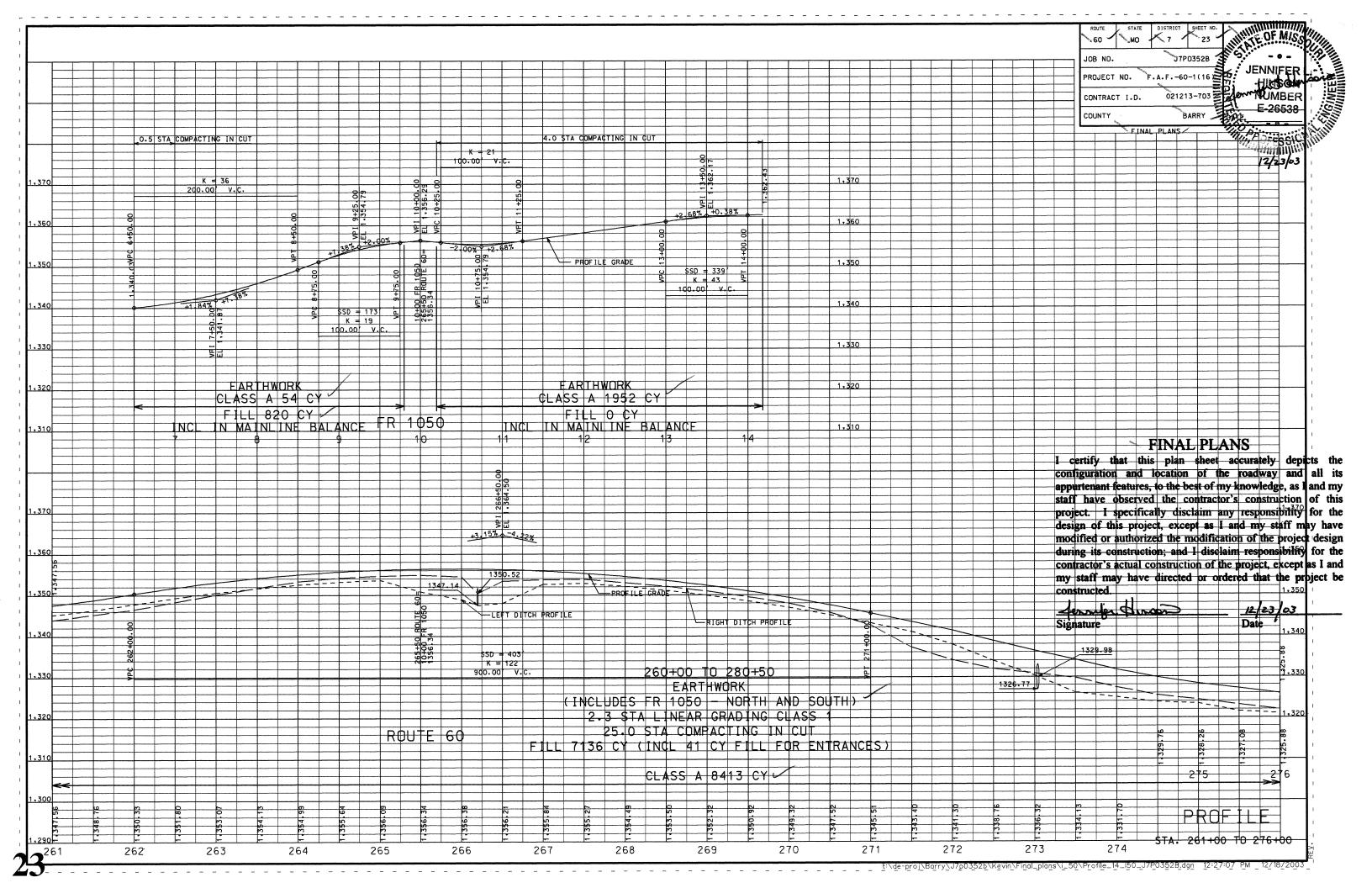


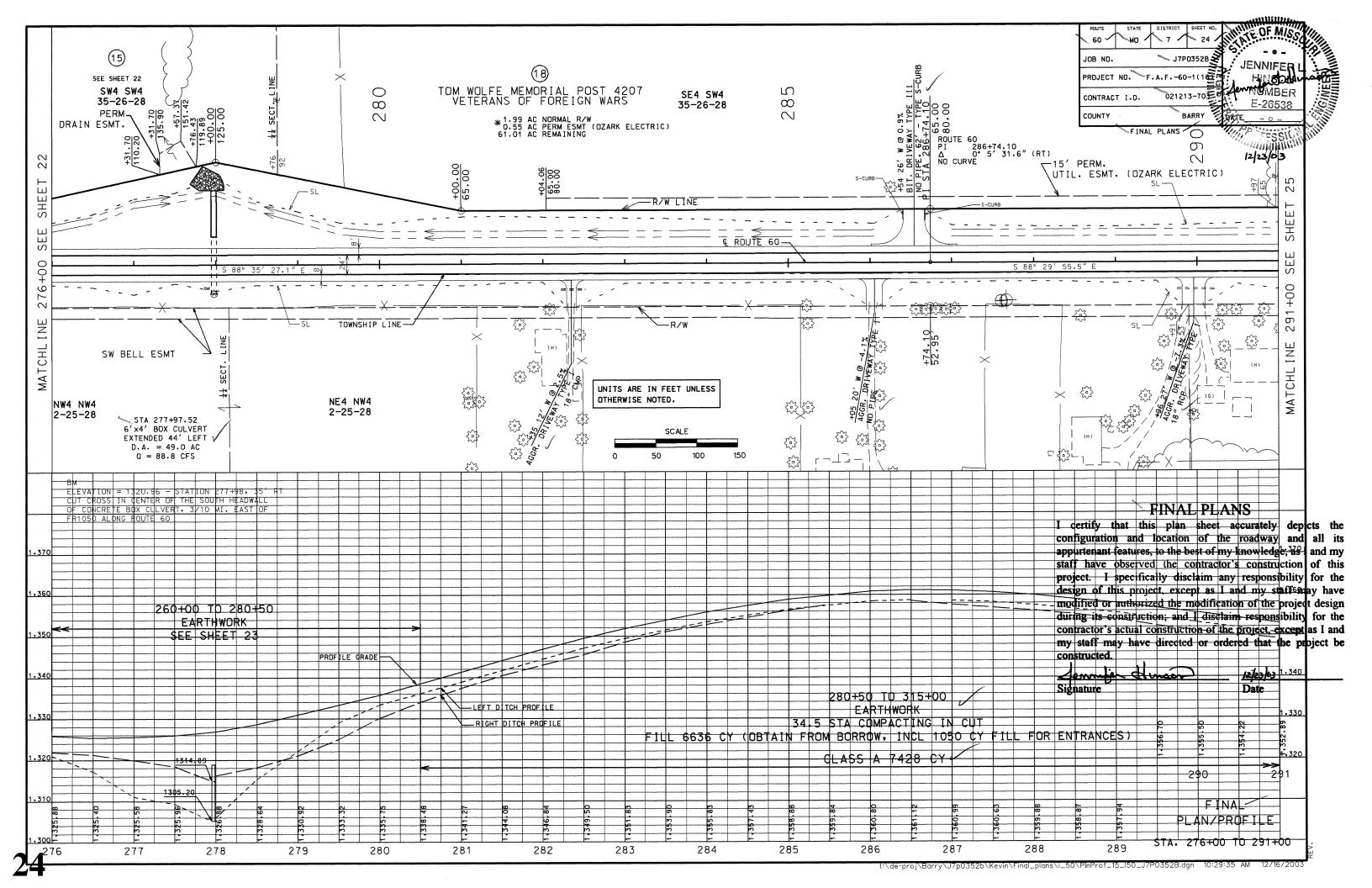


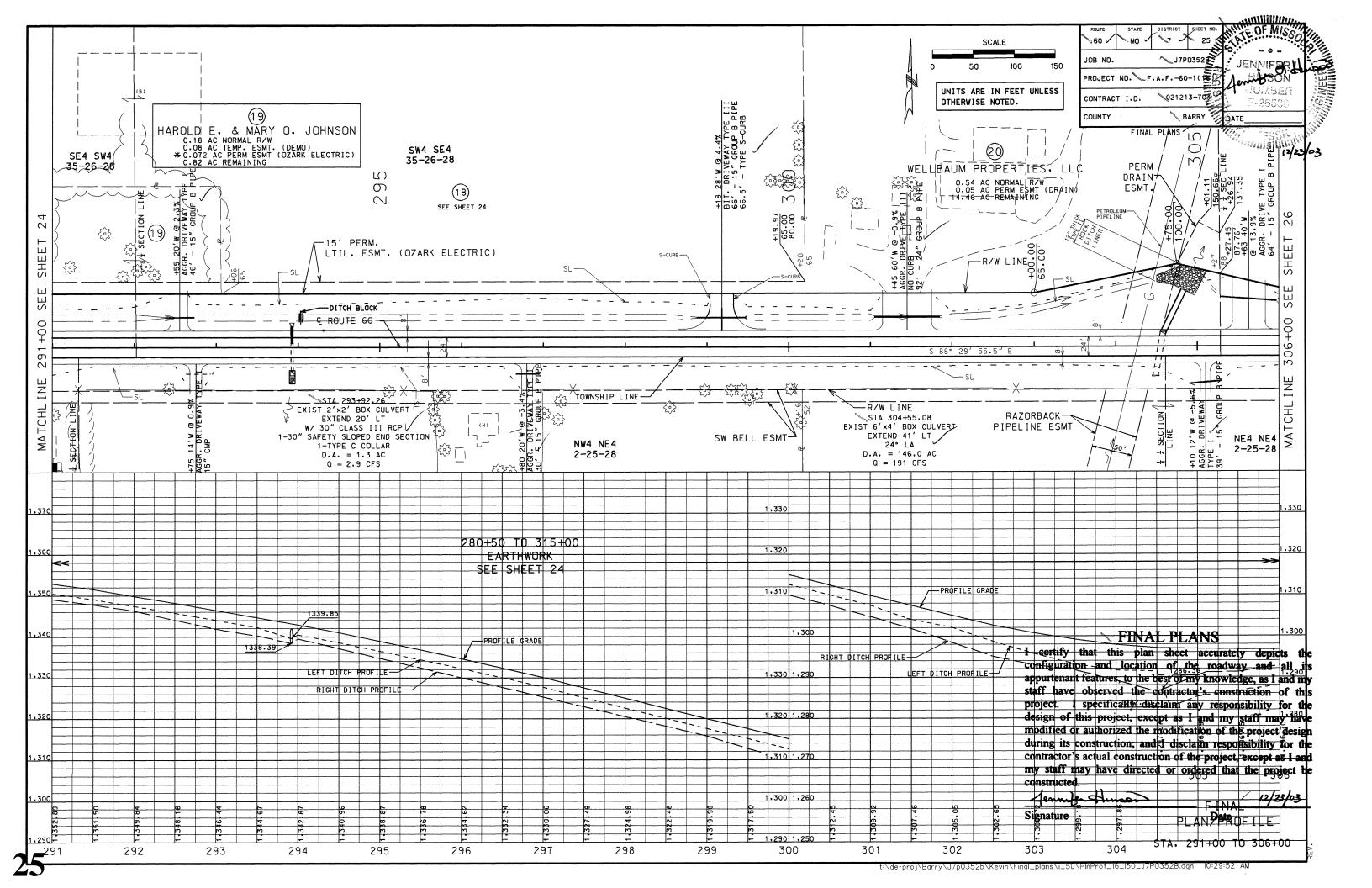


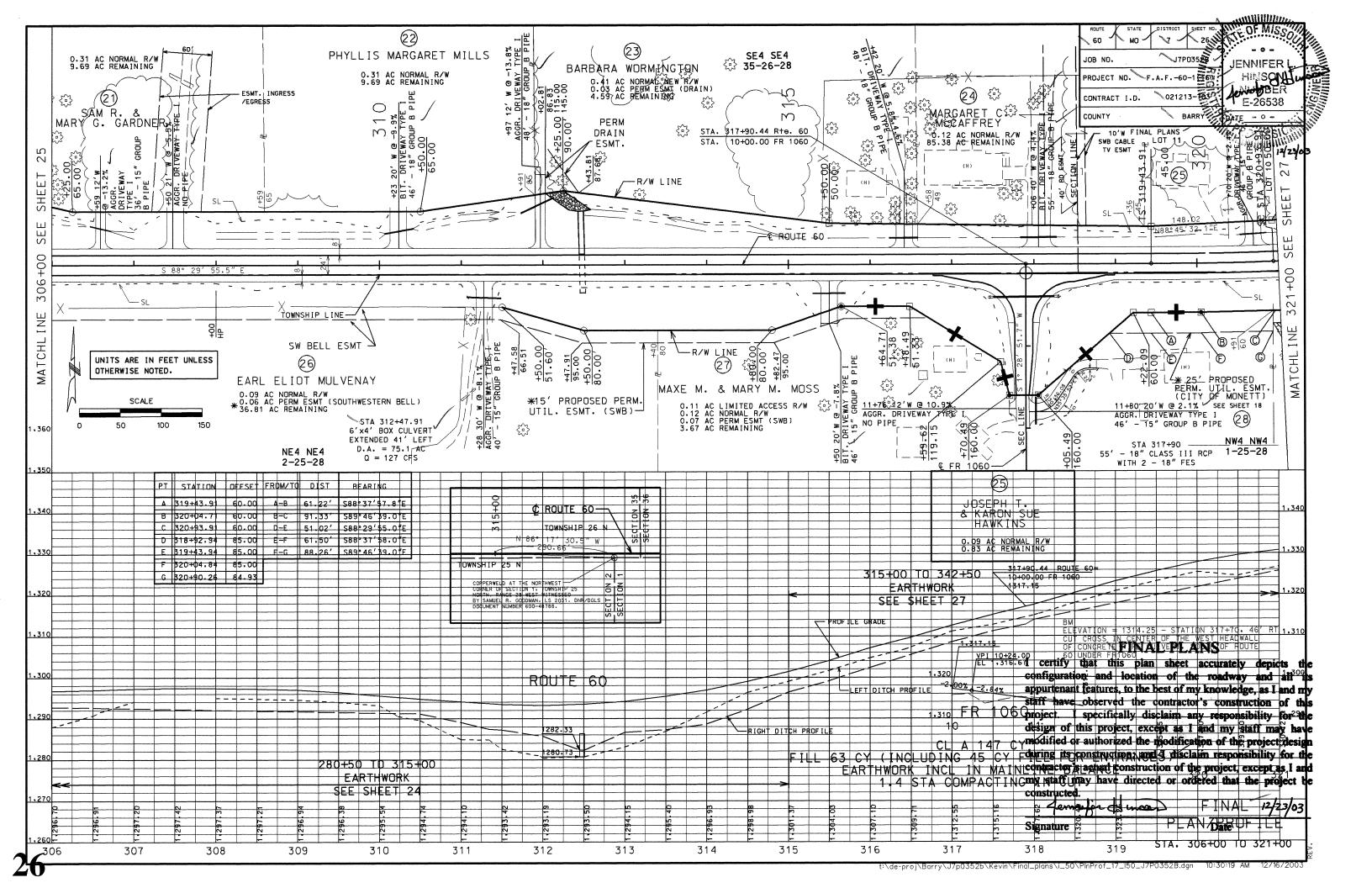


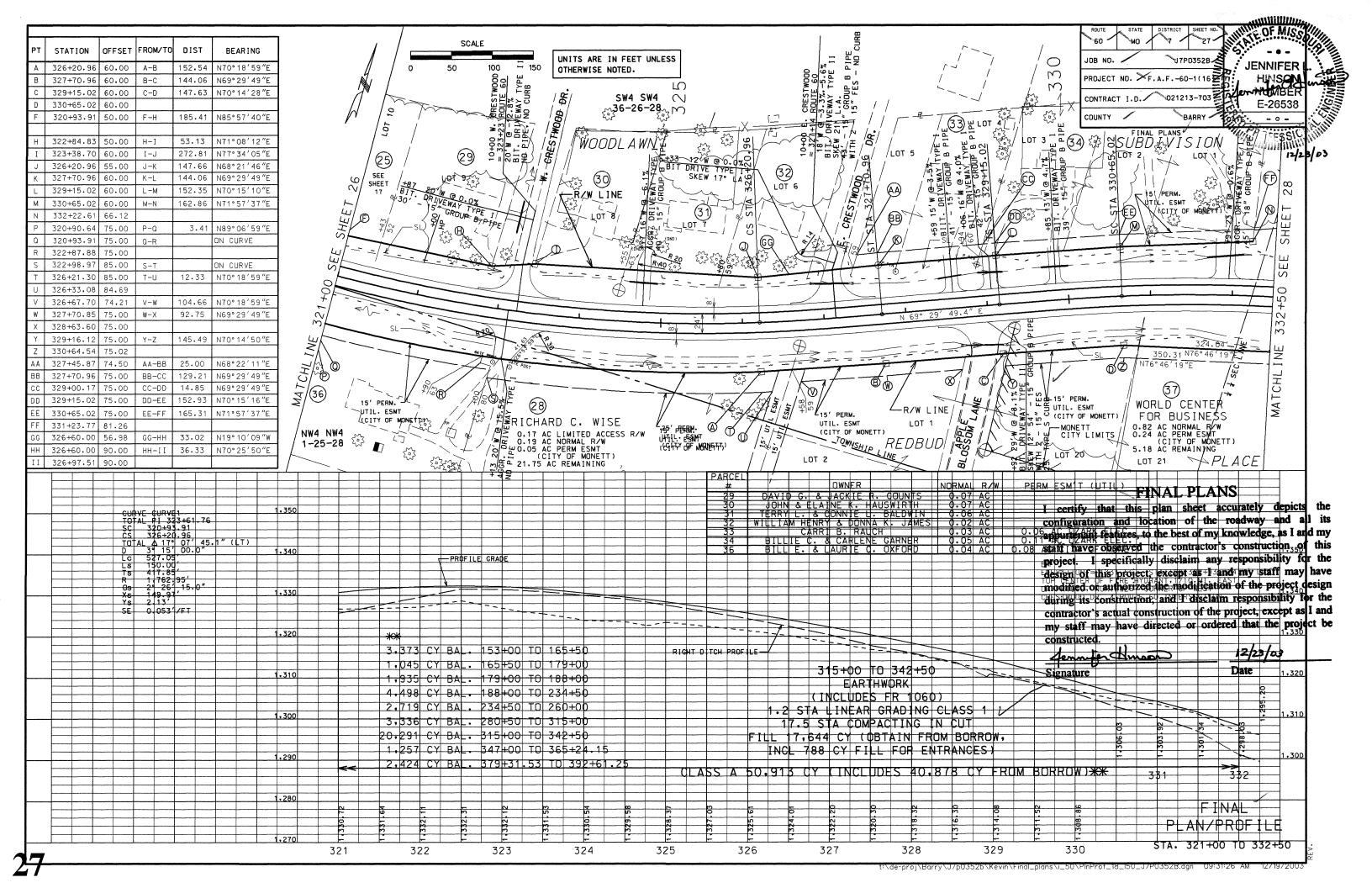


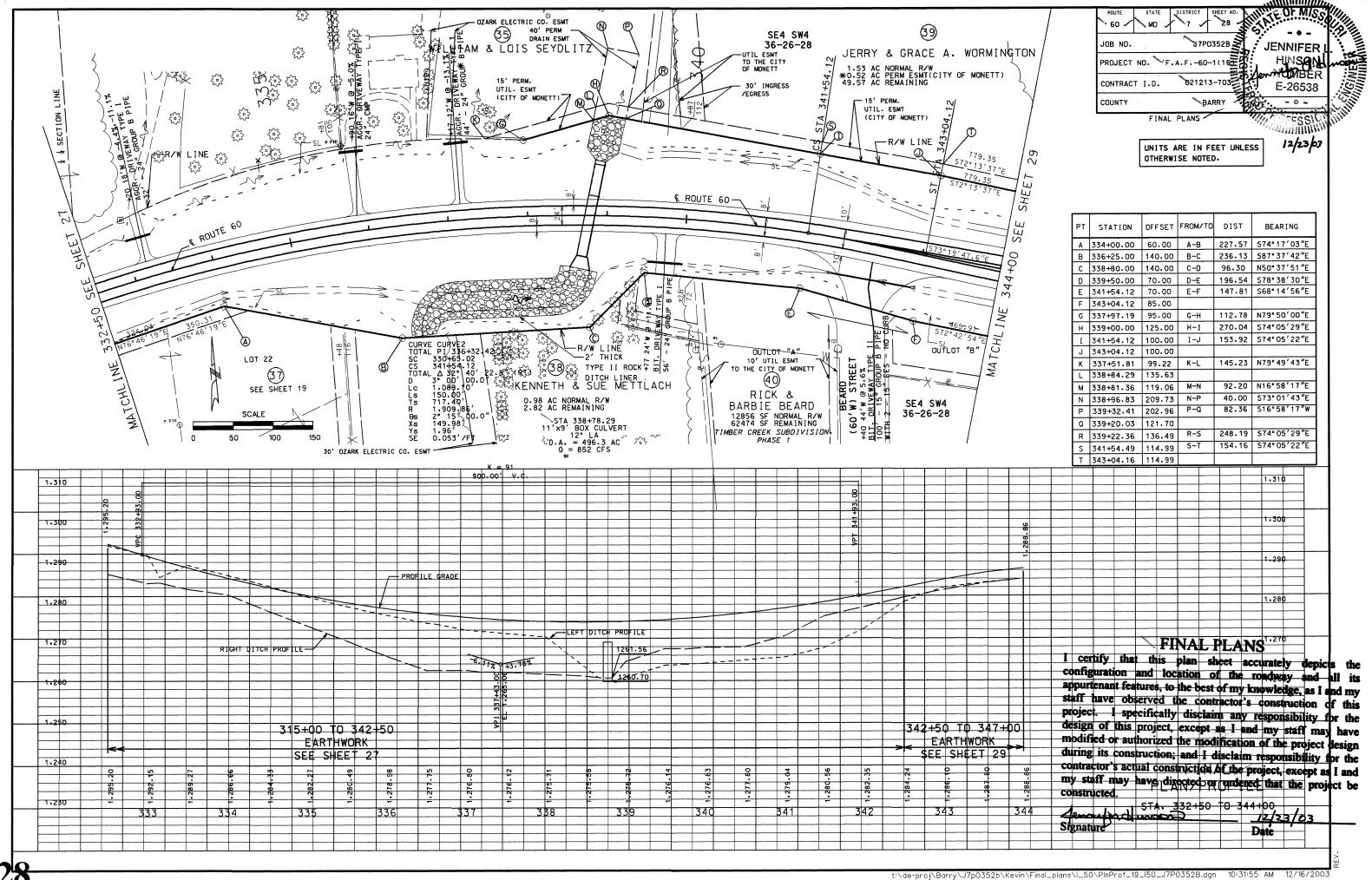


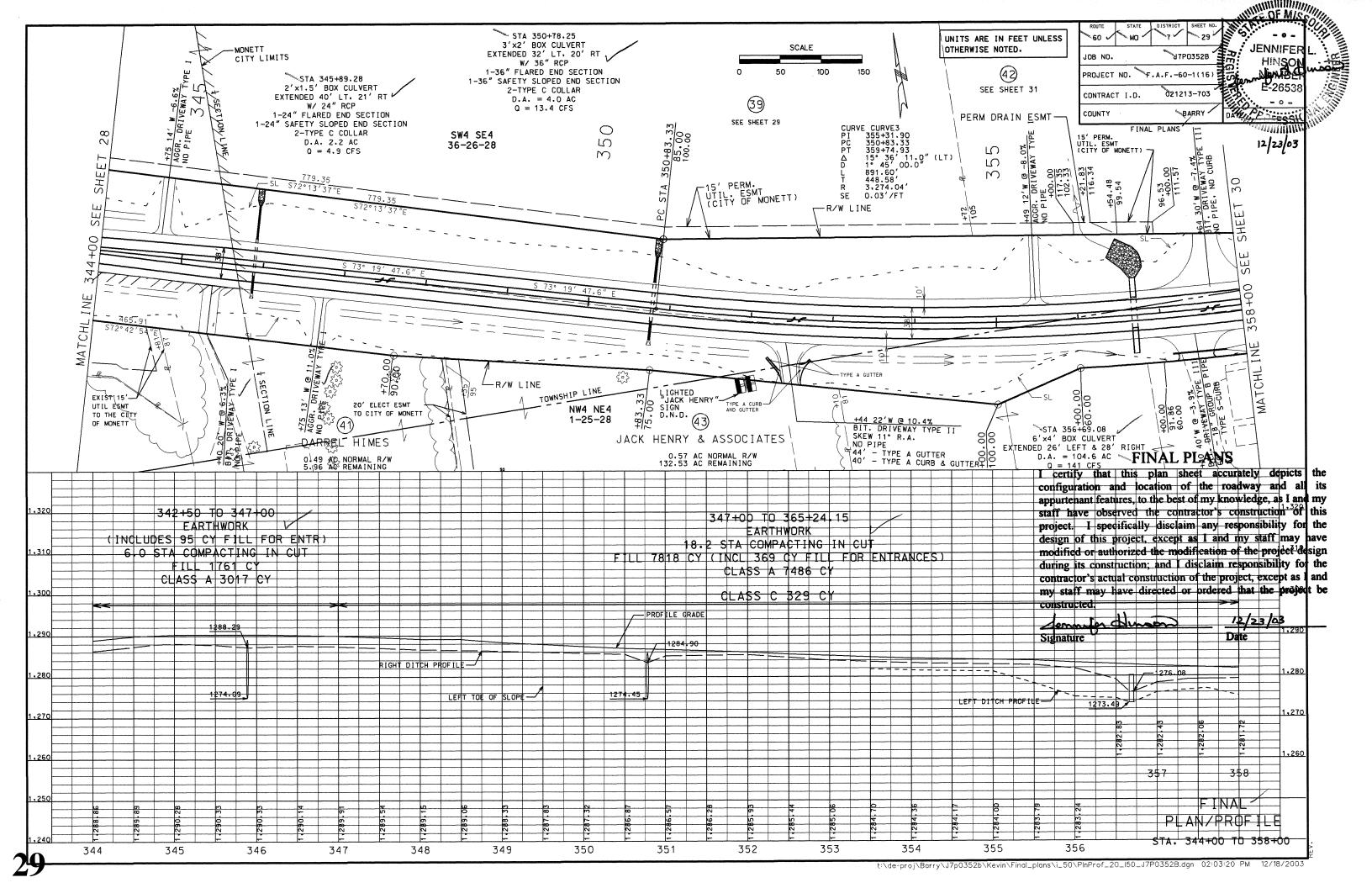


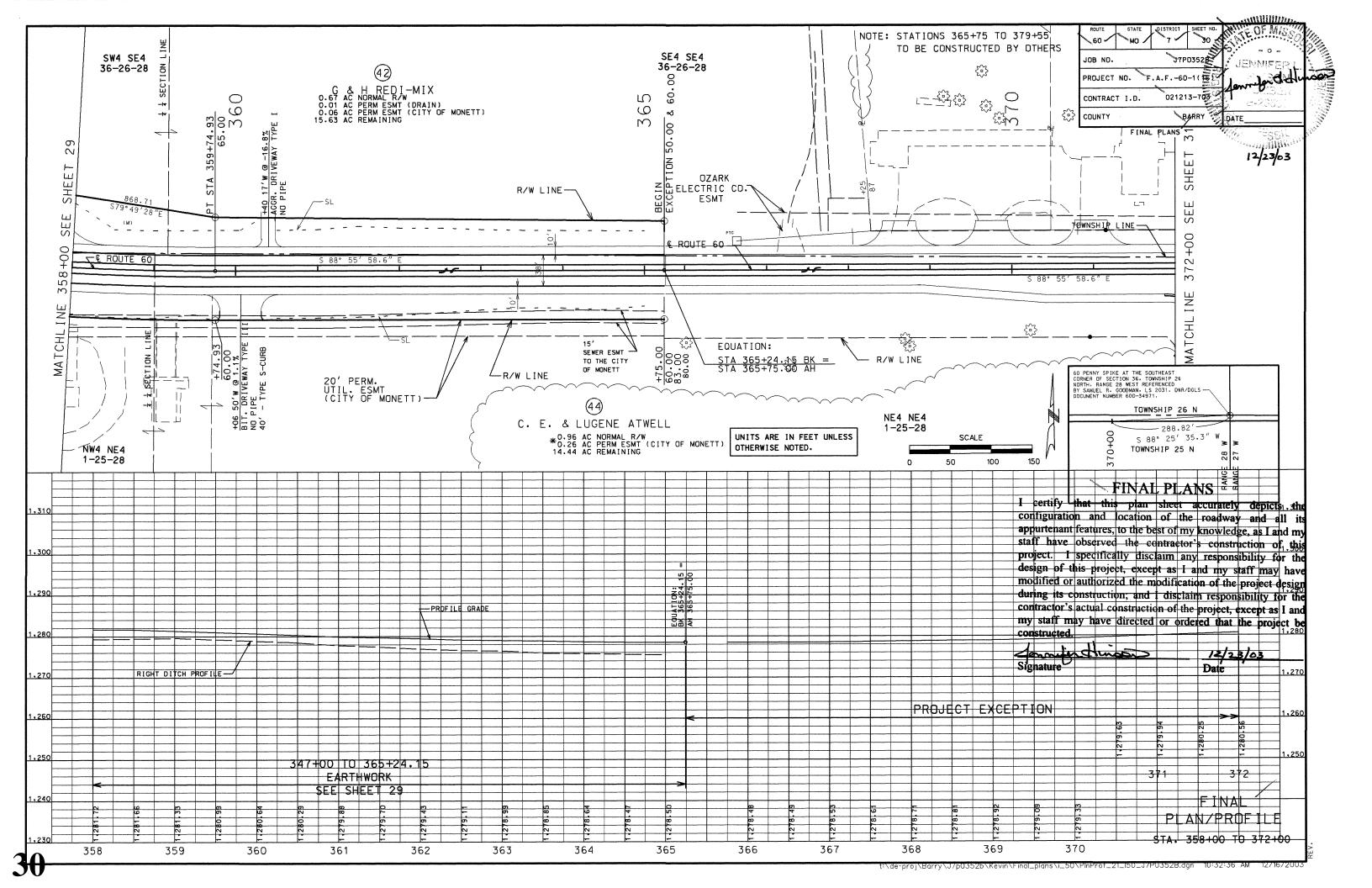


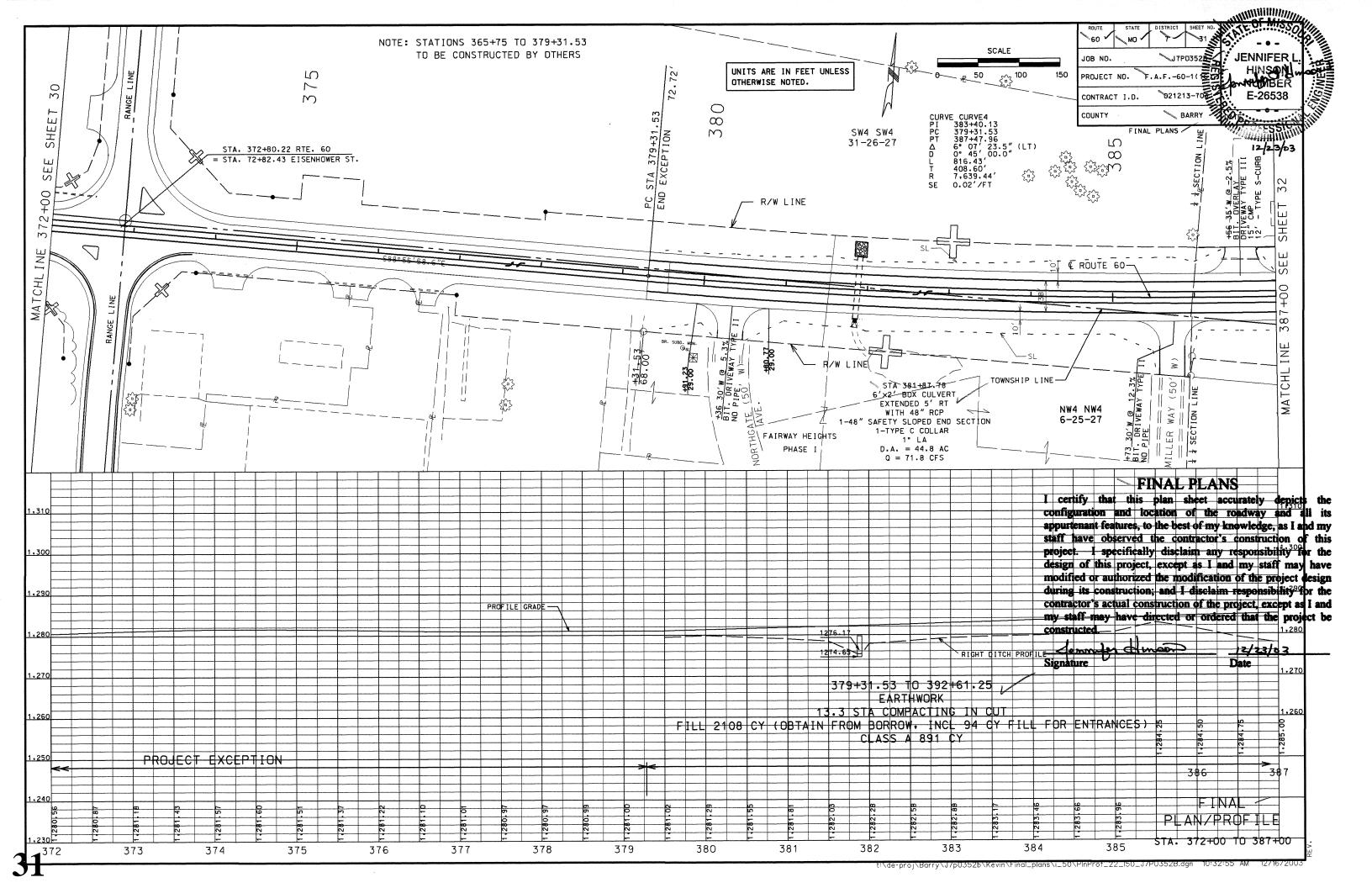


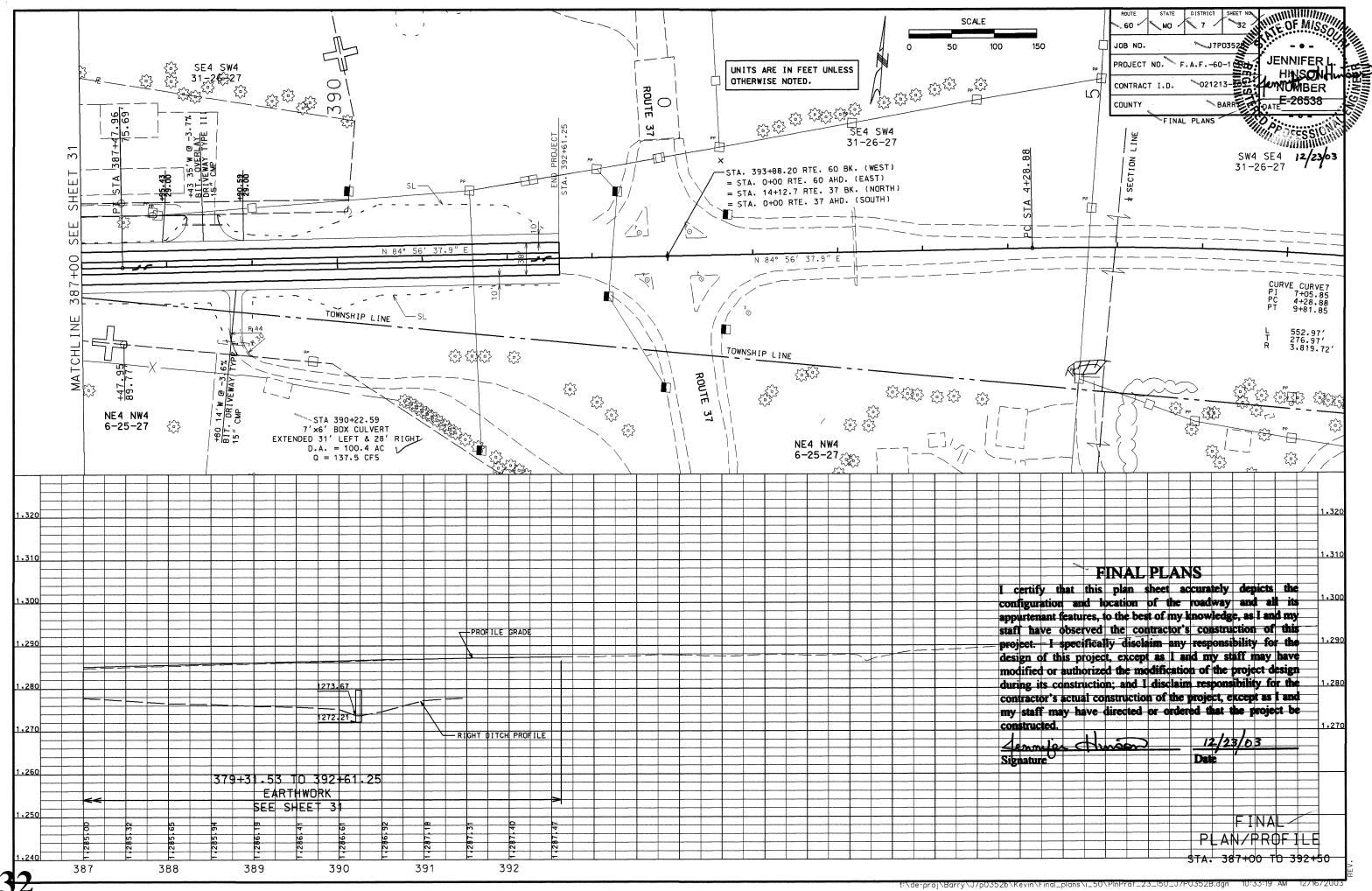


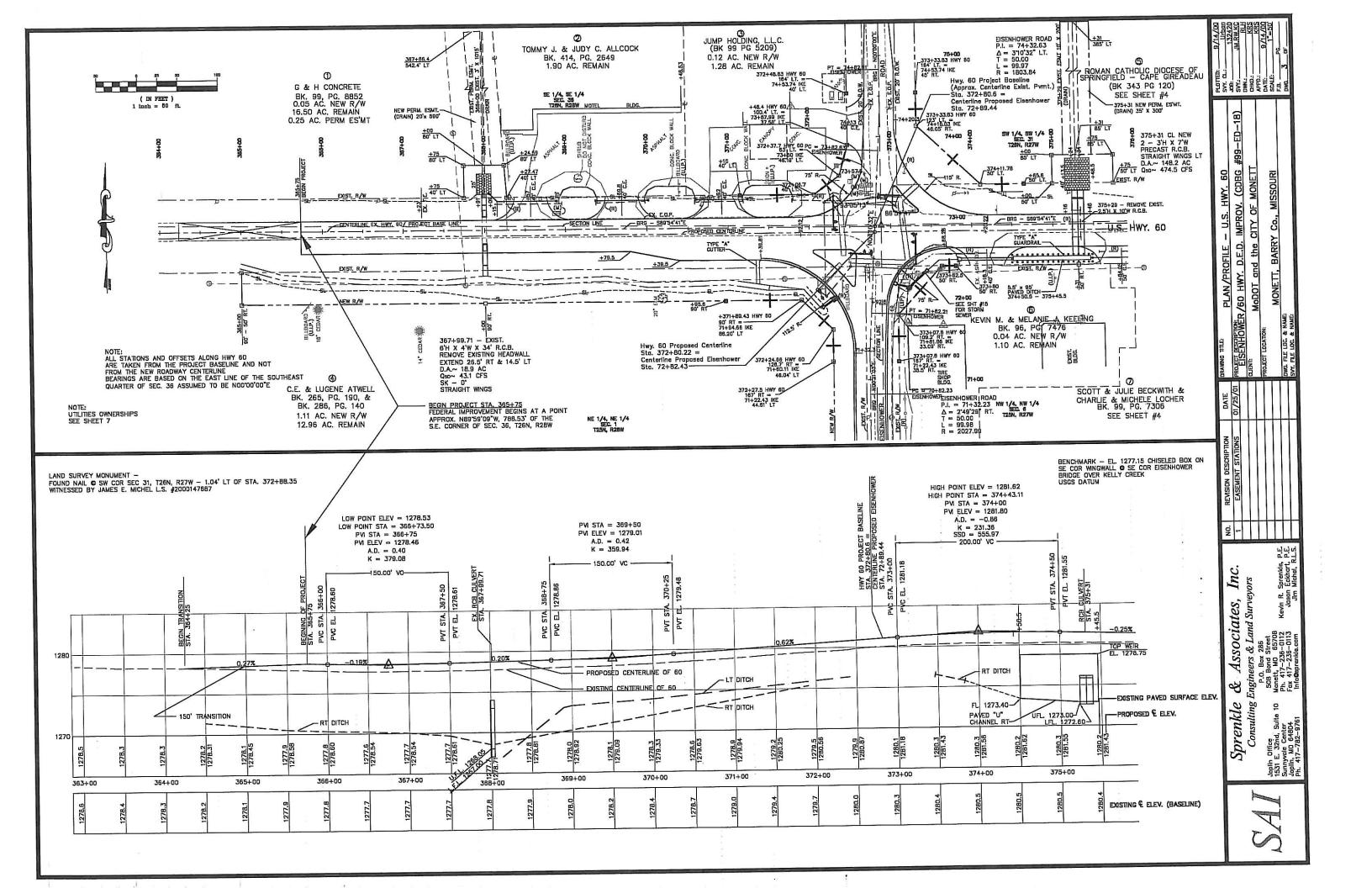


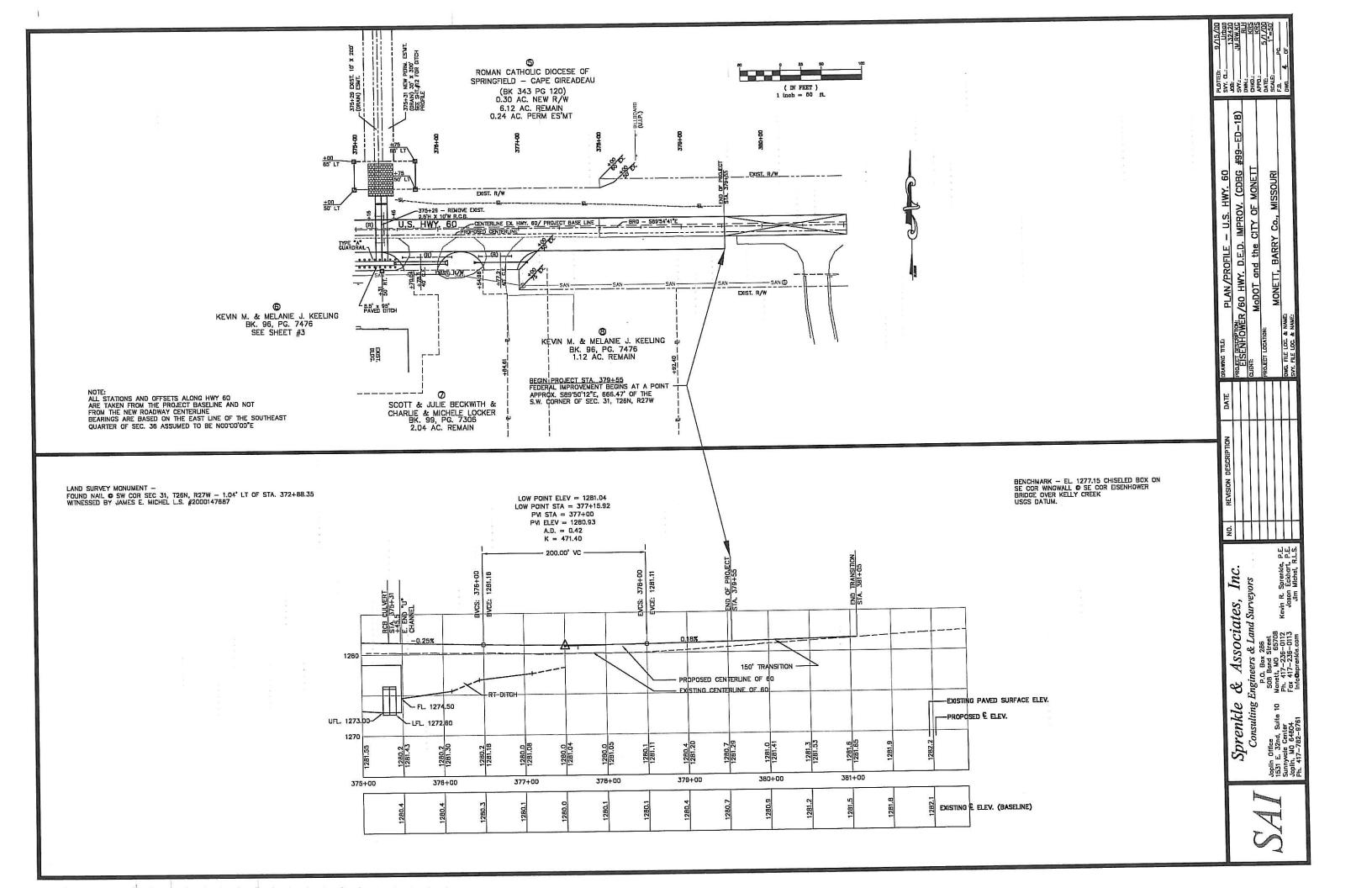


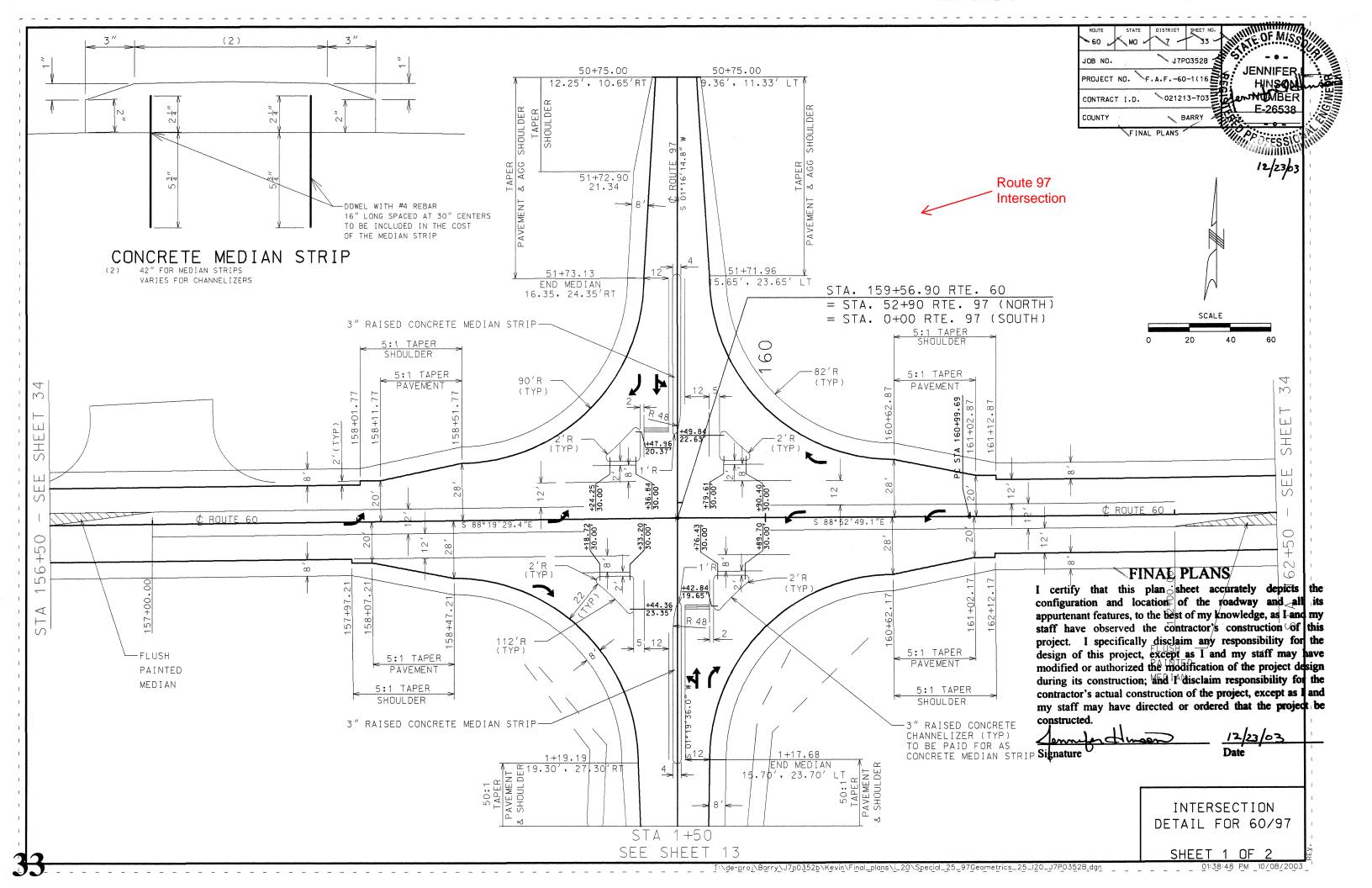


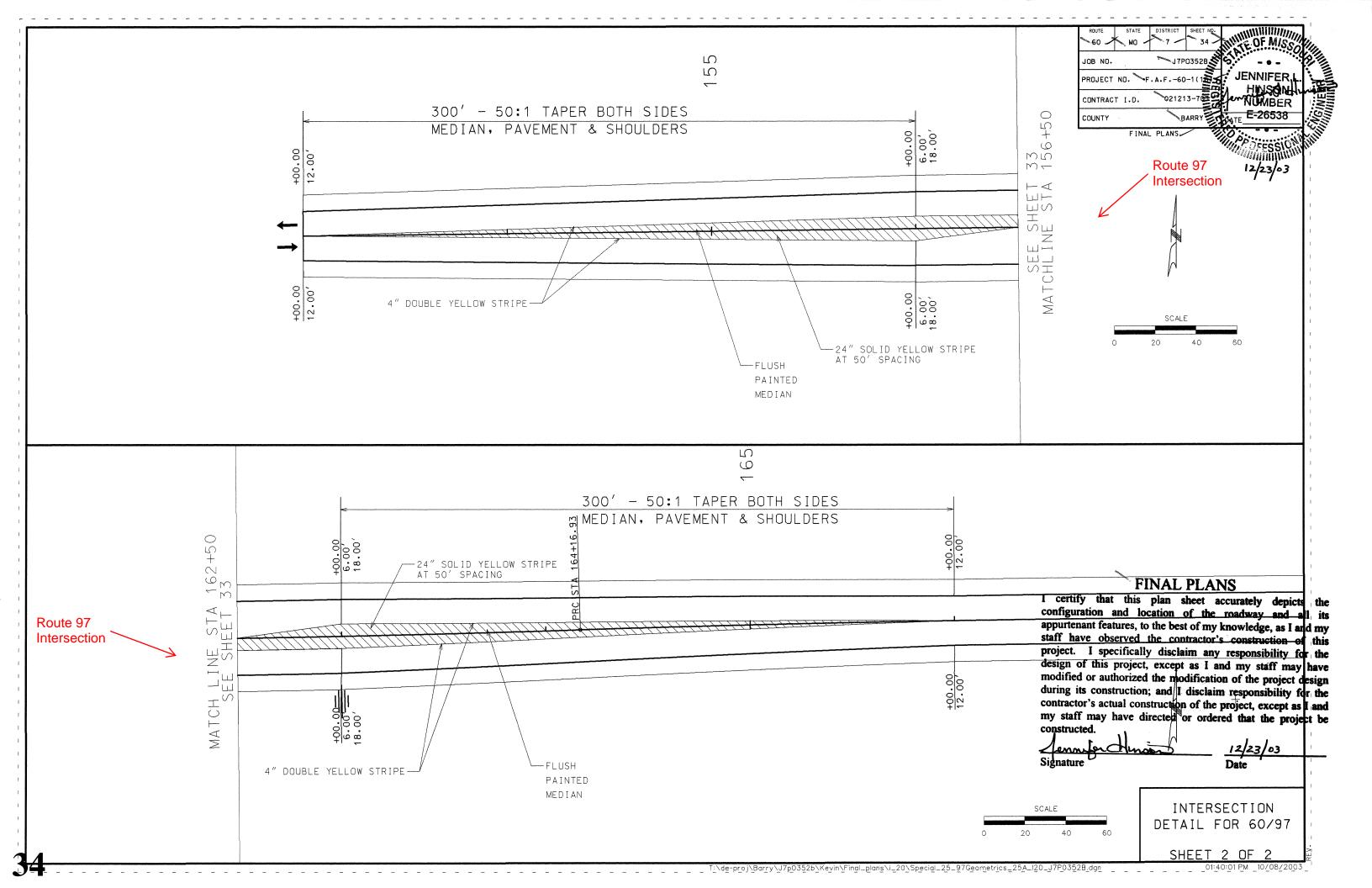


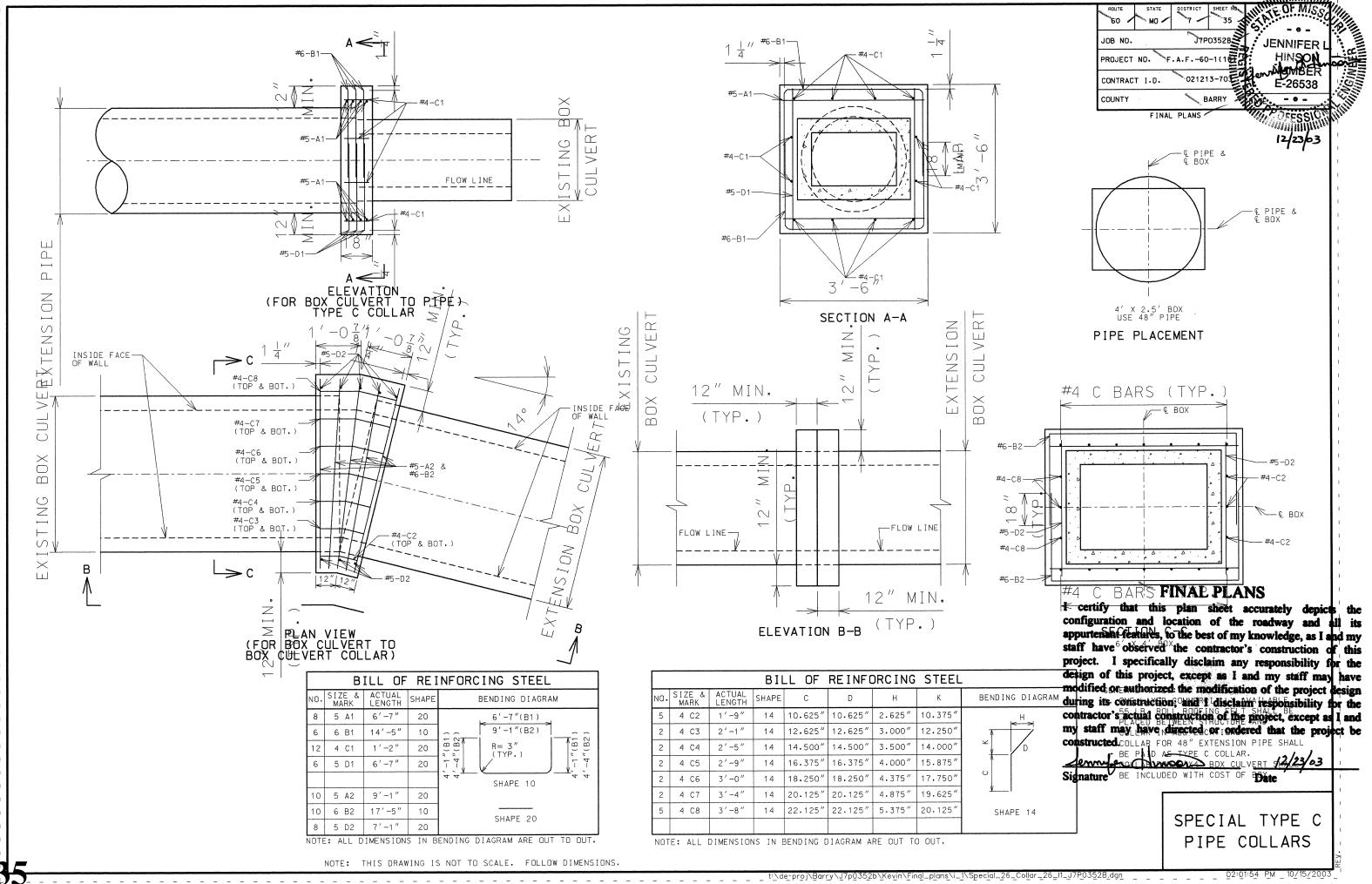


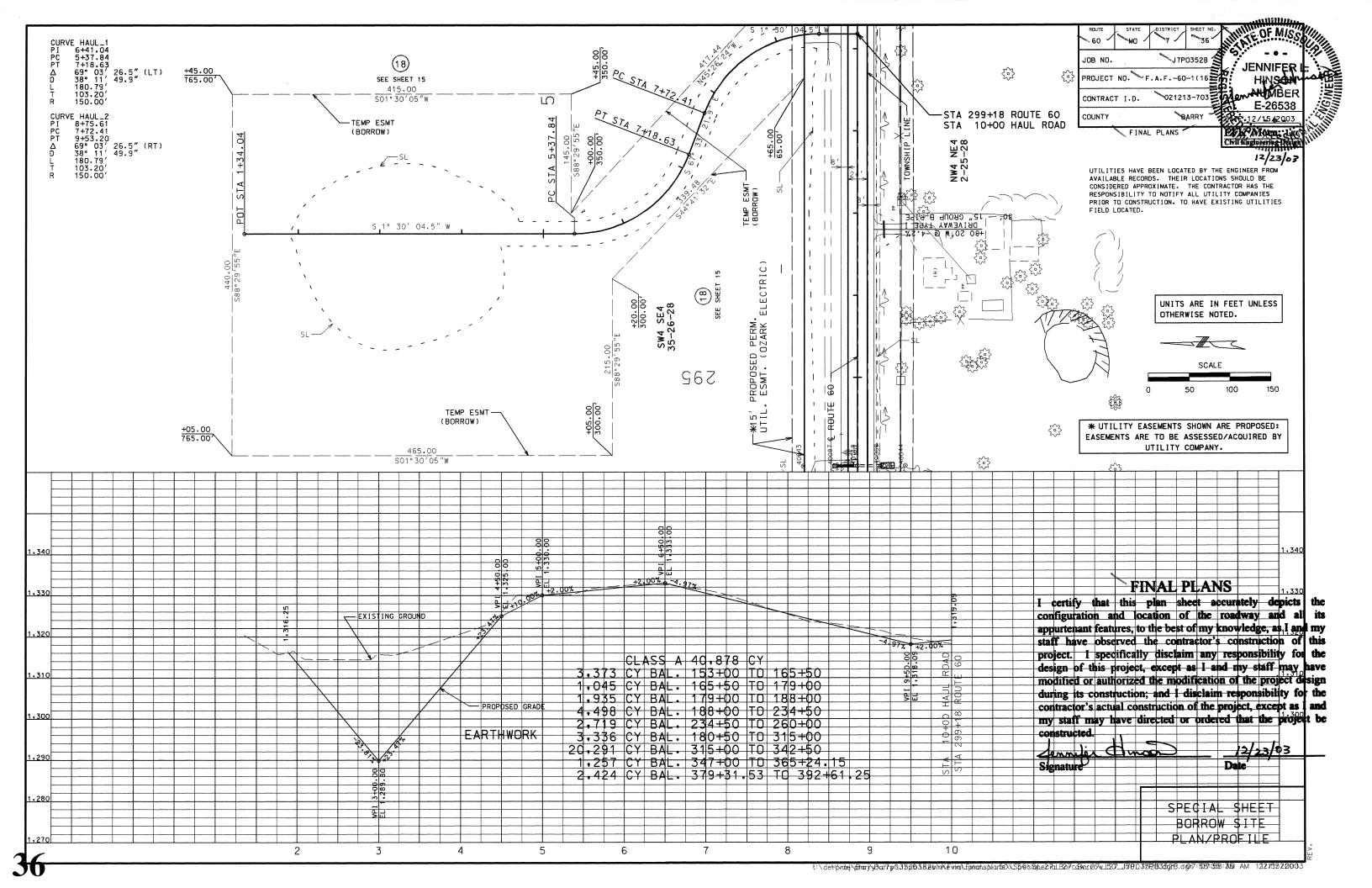


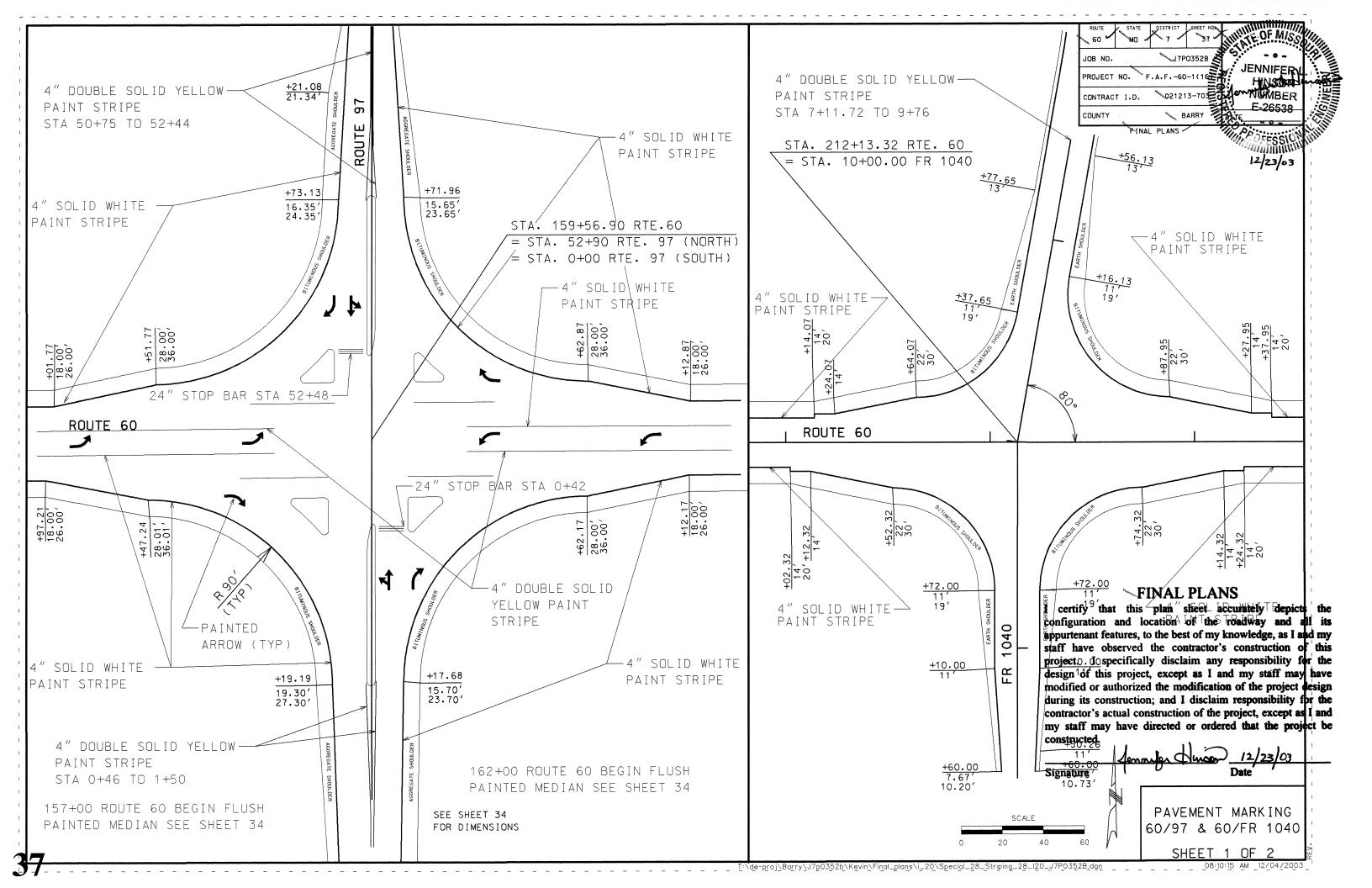


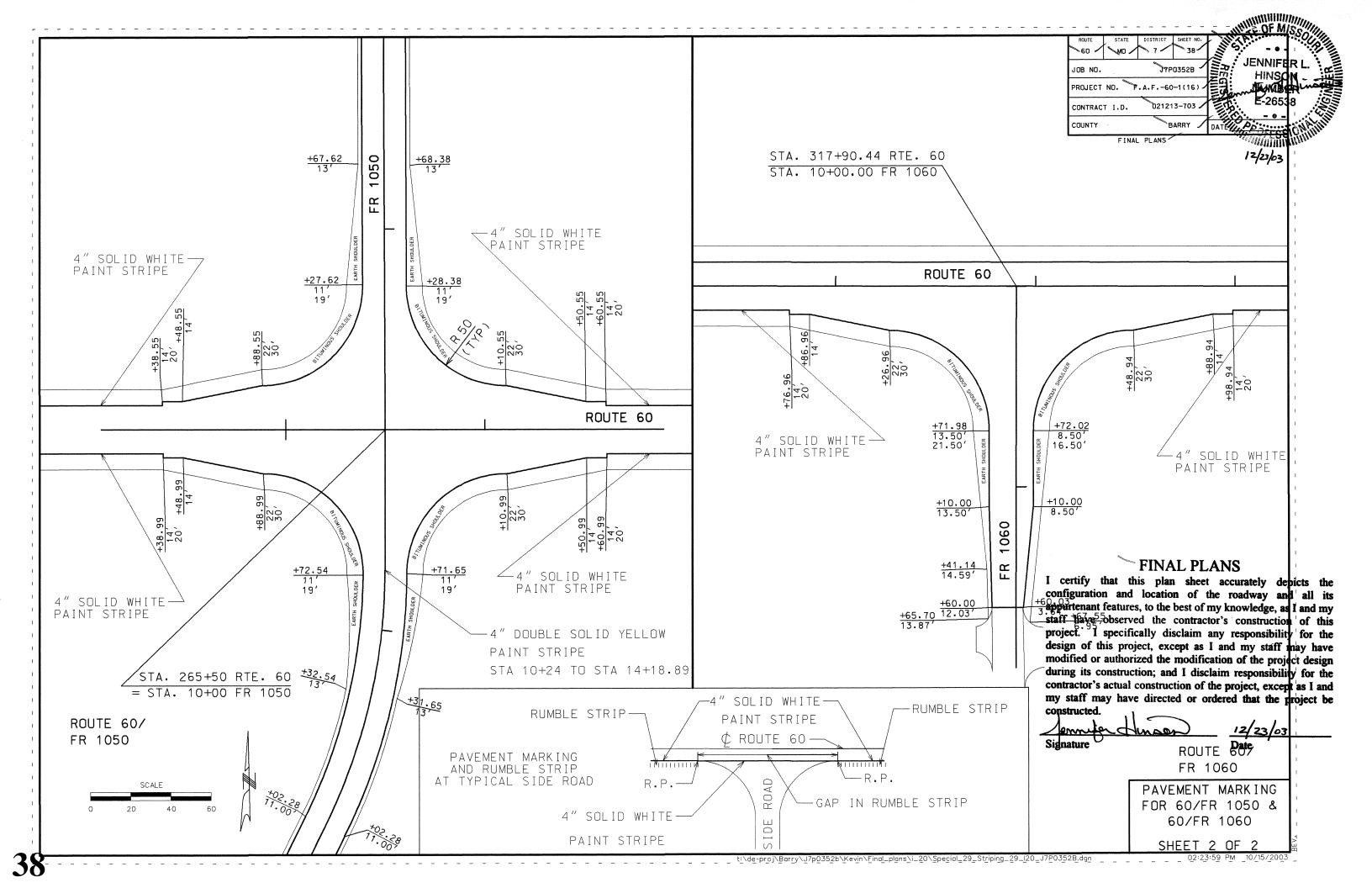


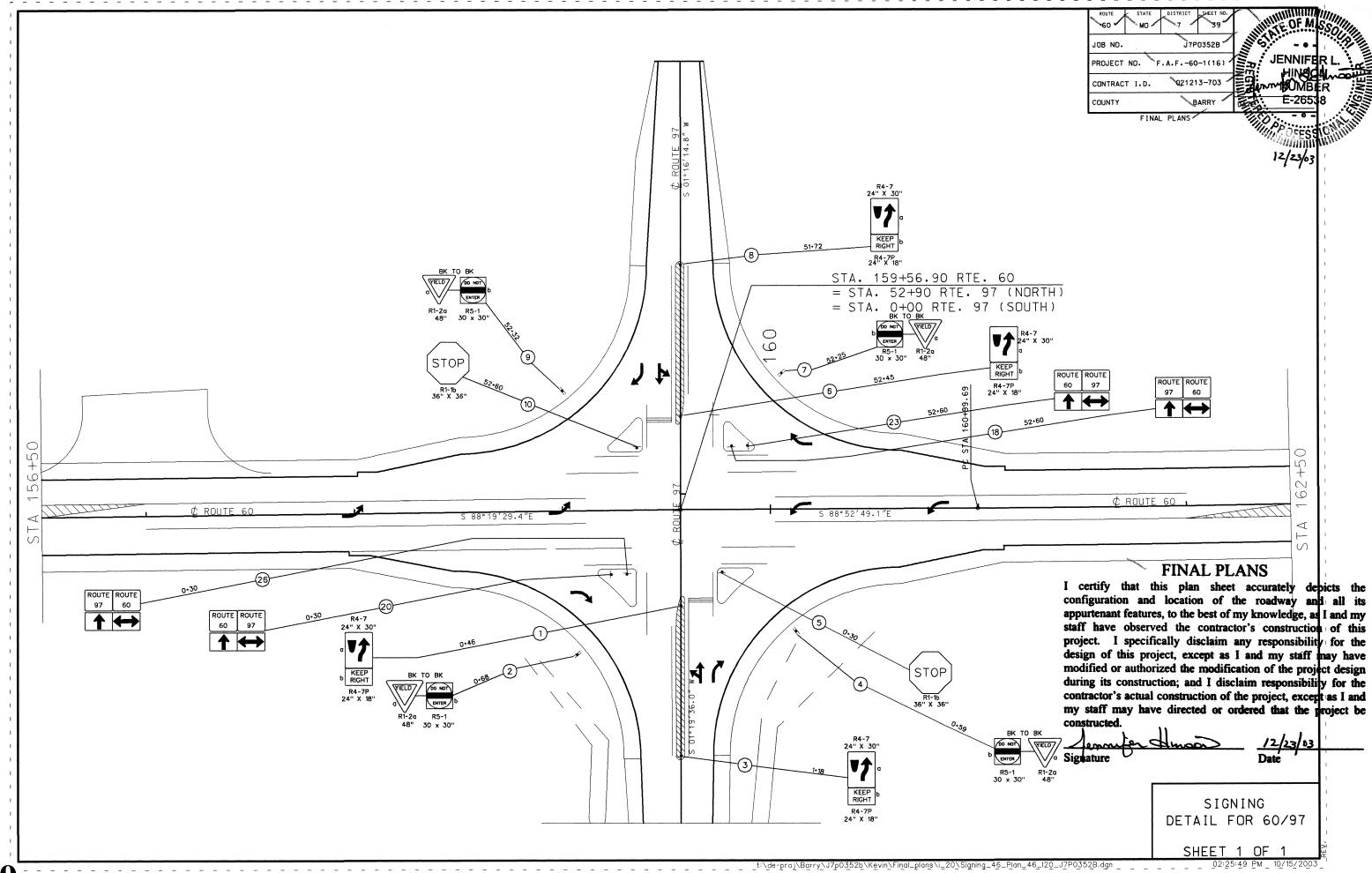












		SIGNS		PIPE POST				WOOD	DOCTO	BREAKAWAY	CONC		
		210112							ASSEMBLY	FTG'S			
SIGN NO.	STATION	LOCATION	SIGN SIZE	PIPE SIZE	POST NO. 1	LBS PER FT	TOTAL ITEM NO. 903- 12.20	4"X4" ITEM NO. 903- 12.60	4"X6" ITEM NO. 903- 12.61	ITEM NO. 903-12.40	EMBD ITEM NO. 903-10.10	REMARKS	
1	0.146	6 BYC 07	24"x30" 24"x18"	IN. 2 1/2	LIN FT 14:29		LBS 83	LIN FT	LIN FT	EACH 1	0.10		
2	0+46 0+68	€ RTE 97 49.82′ RT-RTE 97	24"x18" 48"x48" 30"x30"	4	17.46	10.79	188		<u> </u>	† †	0.36		
3	1+18	€ RTE 97	24"x30" 24"x18"	2:1/2	14.29	5.79	83			1	0.10		
6	0+59	55.44' LT-RTE 97	48"x48" 30"x30"	4	16.62	10.79	179			1 1	0.36		
5	0+30 52+45	19.87' LT-RTE 97 © RTE 97	36"x36" 24"x30"	2·½ 2·½	13.12	5.79	76 83		<u> </u>	1	0.10		
7	52+25	48.56' RT- RTE 97	24"×18" 48"×48" 30"×30"	4	17.12	10.79	185		<del> </del>	1	0.36		
8	51+72	€ RTE 97	24"×30" 24"×18" 48"×48"	2.1/2	14.29	5.79	83			1	0.10		
9	52+32	55.45' LT-RTE 97 21.15' RT-RTE 97	30"x30" 36"x36"	4 2 ½	16.87	10.79	182 76			1 1	0.36		
12	52+60 155+99	LT	9	- 2	13.12	5.79	110	16			0.10	SPEED LIMIT 60	
13	157+64 51+86	LT LT	6	-	·····			16				ROUTE 60 MARKER - WEST ROUTE 97 MARKER - NORTH	
18	52+60	N. E. ISLAND @ RTE 60/97		2 ½	13.54	5.79	78			1	0.10	ROUTE 60 MARKER - RIGHT/LEFT ARROW ROUTE 97 MARKER - STRAIGHT ARROW	
20	0+30	S. W. (SLAND @ RTE 60/97		2 1/2	13.54	5.79	78			1	0.10	ROUTE 60 MARKER - STRAIGHT ARROW ROUTE 97 MARKER - RIGHT/LEFT ARROW	
21	2+21	RT	6					16				ROUTE 97 MARKER - SOUTH	
23	52+60	N. E. ISLAND @ RTE 60/97		2 1/2	13.54	5.79	78			1	0.10	ROUTE 60 MARKER - STRAIGHT ARROW ROUTE 97 MARKER - RIGHT/LEFT ARROW	
26	0+30	S. W. ISLAND @ RTE 60/97		$2\frac{1}{2}$	13.54	5.79	78			1	0.10	ROUTE 60 MARKER - RIGHT/LEFT ARROW ROUTE 97 MARKER - STRAIGHT ARROW	
29	162+50 165+25	RT RT	9			<del> </del>		15 15				ROUTE 60 MARKER - EAST SPEED LIMIT 60	
30	163+33	LT	18						16			DESTINATIONS	
30	163+33	LT LT	18					16	17			DESTINATIONS MONETT MUNICIPAL AIRPORT	
33	165+28 165+28	LT	12					16				MONETT MUNICIPAL AIRPORT	
34	171+95	LT	7					15				JCT - ROUTE 97 MARKER	
35	176+91	LT	16					16				CROSS ROAD	
40	208+00	RT LT	16 6					16				CROSS ROAD STOP @ FR 1040	
	212+34	RT	6					15				STOP @ FR 1040	
	216+00	LT	16					17				CROSS ROAD	
54	260+08	RT	9					18	ļ			CROSS ROAD	
55 57	261+71 9+70	L T RT	6					15				ROUTE 60 MARKER STOP @ FR 1050	
60	10+68	LT	9		***************************************			15				STOP @ FR 1050	
63	266+50	LT	9					17				CROSS ROAD	
70	307+29 314+00	LT RT	9					14				STOP @ SUBDIVISION ENTRANCE SIDE ROAD	
72	314+06	LT	9					17				SPEED LIMIT 60	
76	10+57	LT	9					15				· STOP @ FR 1060	
79 79	319+23	LT LT	12 12					17				DESTINATIONS DESTINATIONS	
80	319+23 323+01	L T	6					18	ļ			STOP @ W. CRESTWOOD DR.	
82	323+84	LT	9					16	-			SIDE ROAD	
84	326+84	LT	6					14				STOP @ E. CRESTWOOD DR	
86	329+23 330+77	RT LT	6 11					15	17	<b> </b>		STOP @ APPLE BLOSSOM LANE CURVE RIGHT - SPEED ADVISORY	
88	331+24	RT	15						18			CURVE RIGHT - SPEED ADVISORY	
	342+40	RT	6					15				STOP @ BEARD ST.	
101	344+44	RT	14					16	18			SPEED LIMIT 45 - CITY LIMIT MONETT	
103	347+16 348+51	RT LT	9 15					16	19			SIDE ROAD CURVE LEFT - SPEED ADVISORY	
	352+72	RT	6					15				STOP @ JACK HENRY	
112	357+92	LT	9					17				SIDE ROAD	
113	361+80 380+28	RT RT	9			-		16				SPEED LIMIT 45 \$1000 FINE FOR LITTERING	
116	380+28	RT	8					16		<u> </u>		\$1000 FINE FOR LITTERING	
118	384+52	RT	1					16				JCT - ROUTE 37 MARKER	
	385+83	RT	6 14			-		14				STOP @ MILLER WAY	
	388+15 388+30	LT RT	12					15	16			SPEED LIMIT 45 DESTINATIONS	
	388+30	RT	12						17		7	DESTINATIONS	
	391+50	LT	4					16				ROUTE 60 MARKER	
	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	L				TOTAL	1530		170	- A A	2.44		
						TOTAL		629	138	14	~~c • 44		

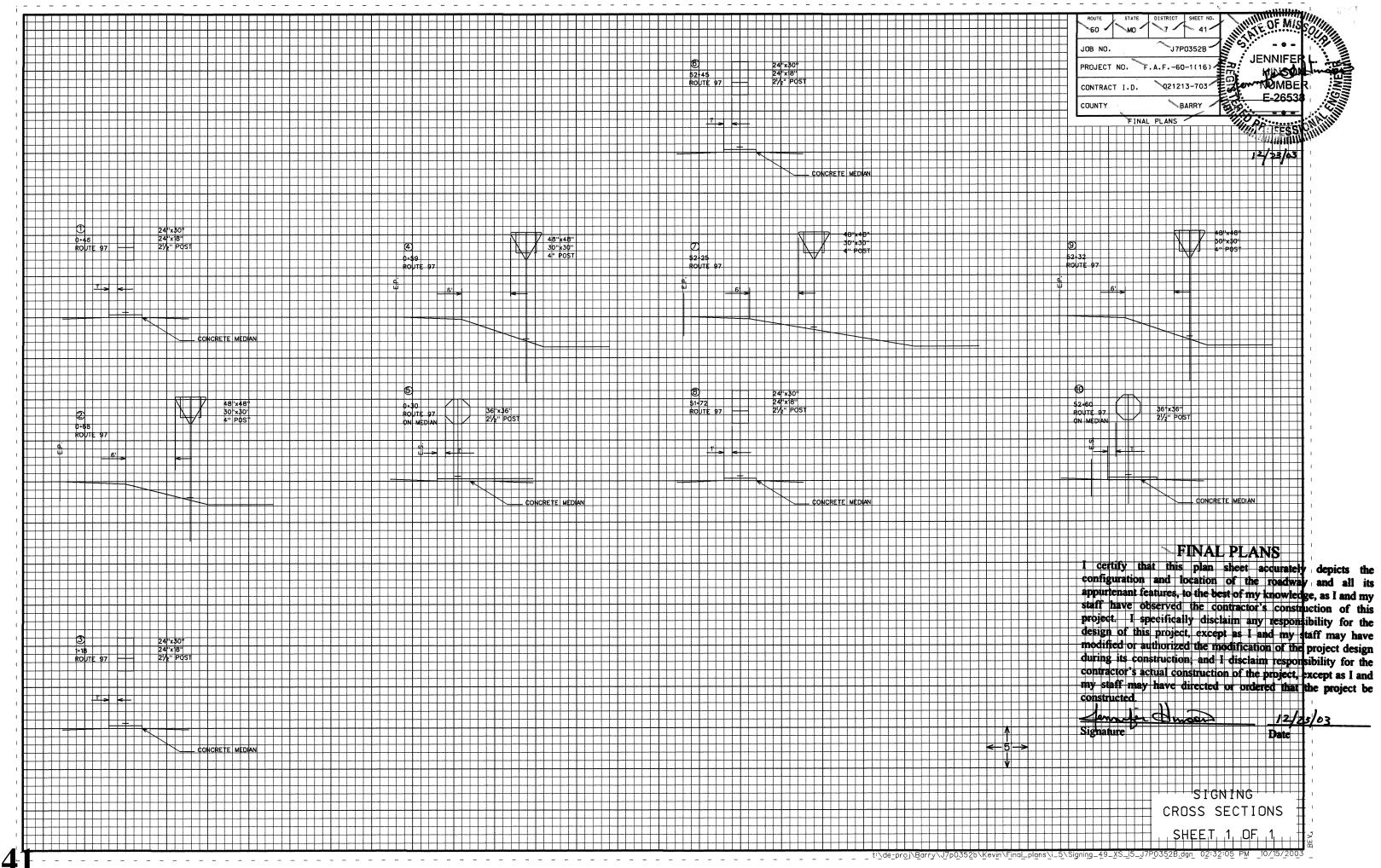
					Le a L	
l &		SHEET NO.	JAHIN A	E OF MIS	0//	
JOB ND.	J7P	0352В 🦠	ا : . ده تا	- 0 - Ennifer		
PROJECT NO.	F.A.F60	-1(16)		HINSOF	نصب	
CONTRACT I.	02121	3-703	Jen-	NOMBEF E-26538		
COUNTY	В	ARRY /				
F	INAL PLANS		Will	Poressi(	Miller	<i>,</i> ,
				12/23/03	1	
	JOB ND. PROJECT NO. CONTRACT I.I	JOB NO. J7P PROJECT NO. F.A.F60 CONTRACT I.D. 02121	GO MO 7 40  JOB ND. J7P03528  PROJECT NO. F.A.F60-1(16)  CONTRACT I.D. 021213-703  COUNTY BARRY	ADUTE STATE DISTRICT SHEET NO.  40  JOB NO.  J7P0352B  PROJECT NO.  F.A.F60-1(16)  CONTRACT I.D.  O21213-703  COUNTY  BARRY	JOB ND.  J7P0352B  JENNIFER  PROJECT NO. F.A.F60-1(16)  CONTRACT I.D.  DISTRICT SHEET NG. 40  JENNIFER  HINSON  E-26538  COUNTY	JOB ND.  J7P0352B  JENNIFER L.  PROJECT NO. F.A.F60-1(16)  CONTRACT I.D.  O21213-703  E-26538  COUNTY  BARRY

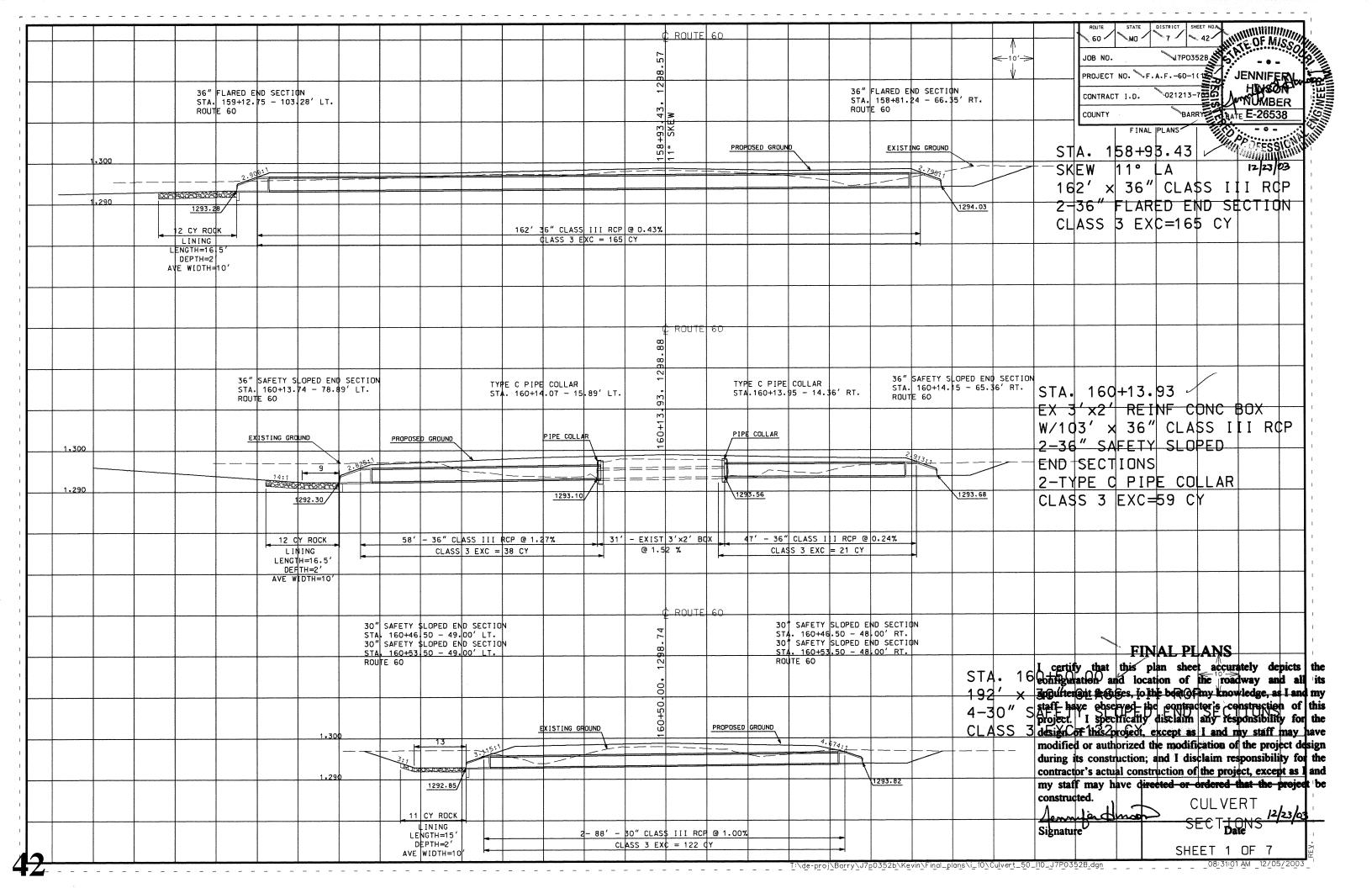
S	IGN S	UMM	ARY				
			SIZE, TYPE & SQUARE FEET				
STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE	SHR2L-1 ITEM NO. 903-50.04	SHR1L-1 ITEM NO. 903-50.07	36" STOP	
1, 3, 6, 8	STD	4	2'× 2.5'		20		
1, 3, 6, 8	STD	4	2'x 1.5'		12		
2, 4, 7, 9	STD	4	4' × 4' / 2	32			
2, 4, 7, 9	STD	4	2.5'x 2.5'	25			
5, 10 🕪	STD	2	3' × 3'			2	
			TOTAL	57 SQFT	32 SQFT	2 E	

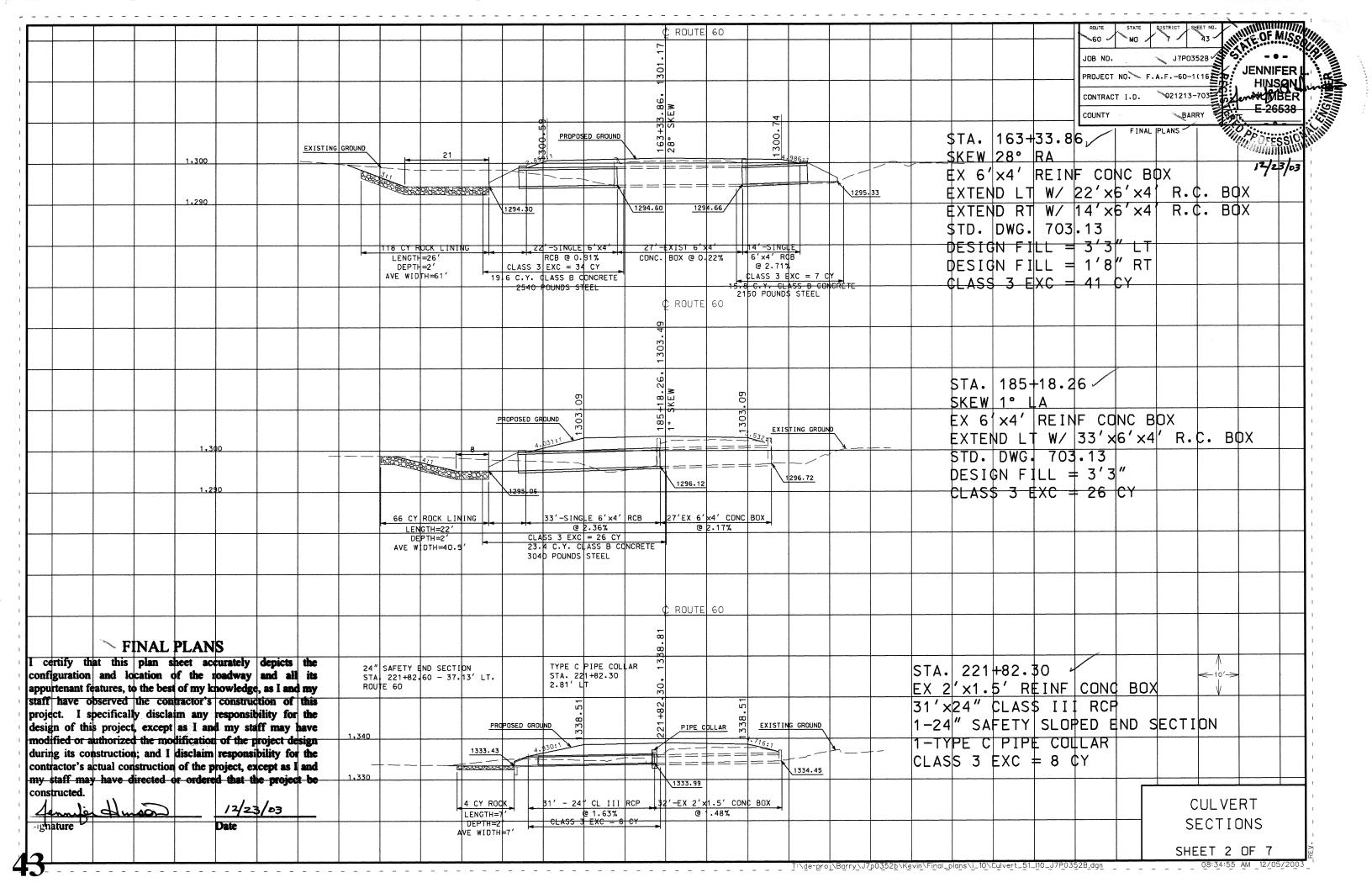
EFFECTIVE

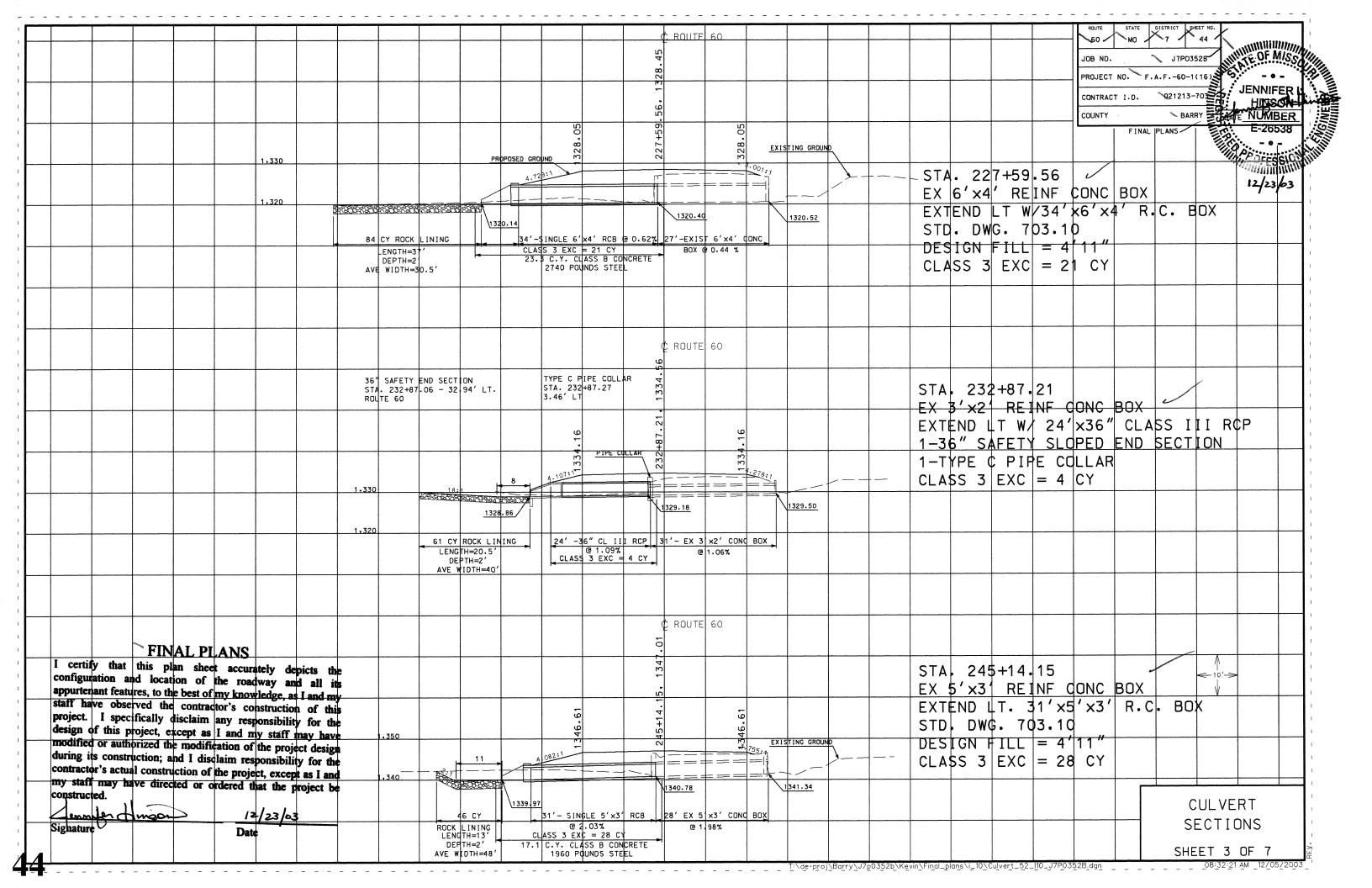
## FINAL PLANS

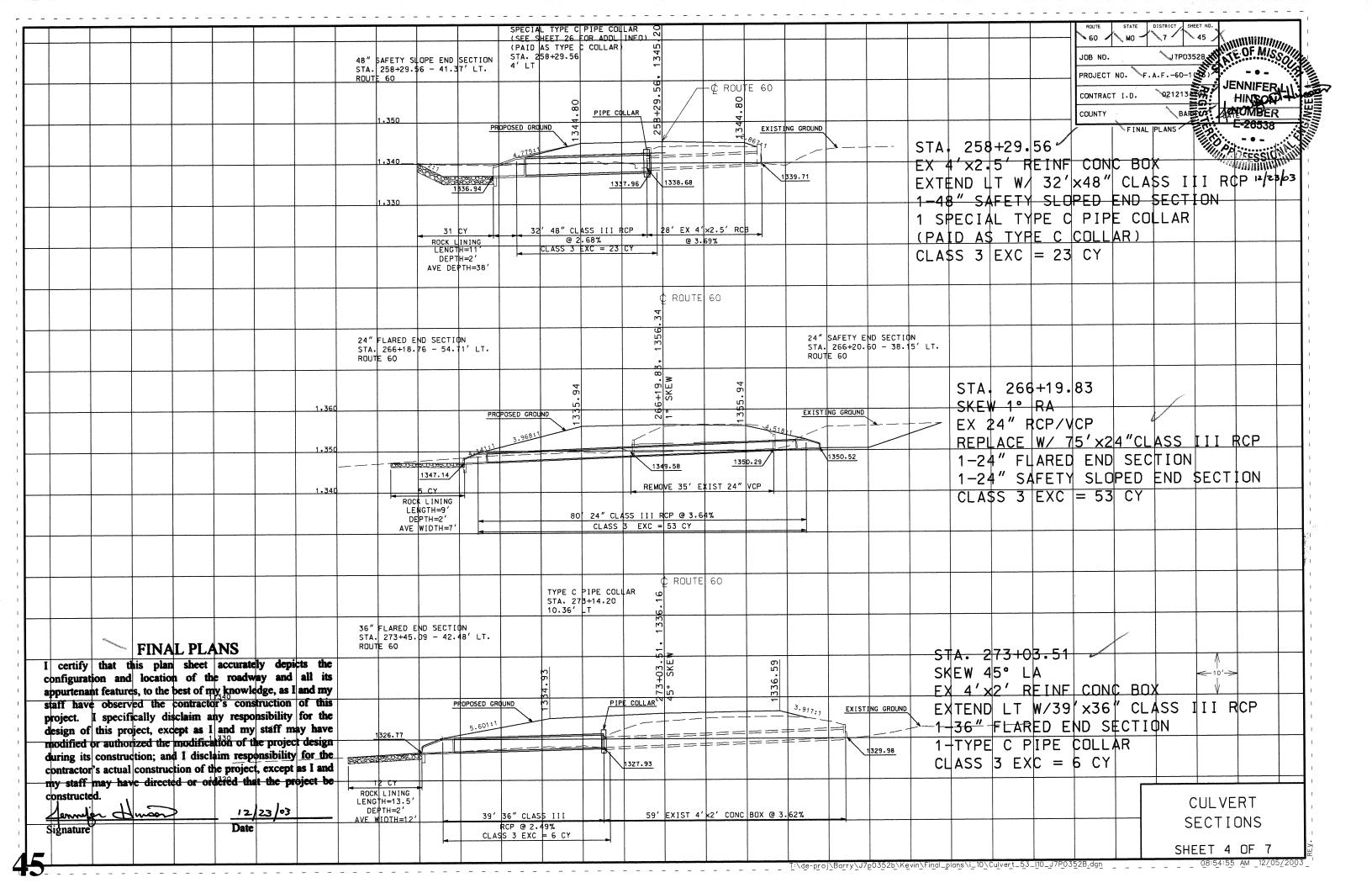
I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered that the project be constructed.

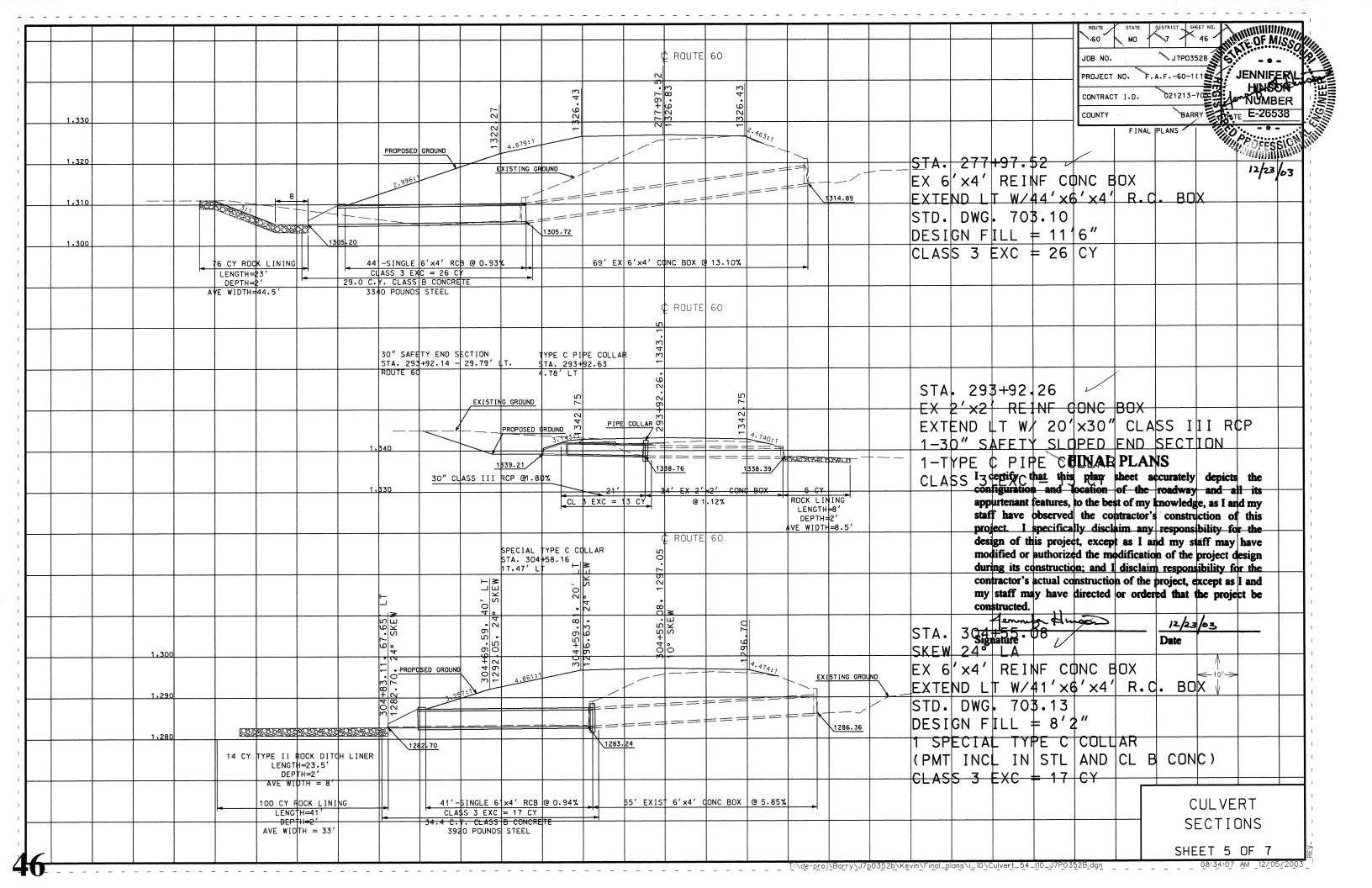


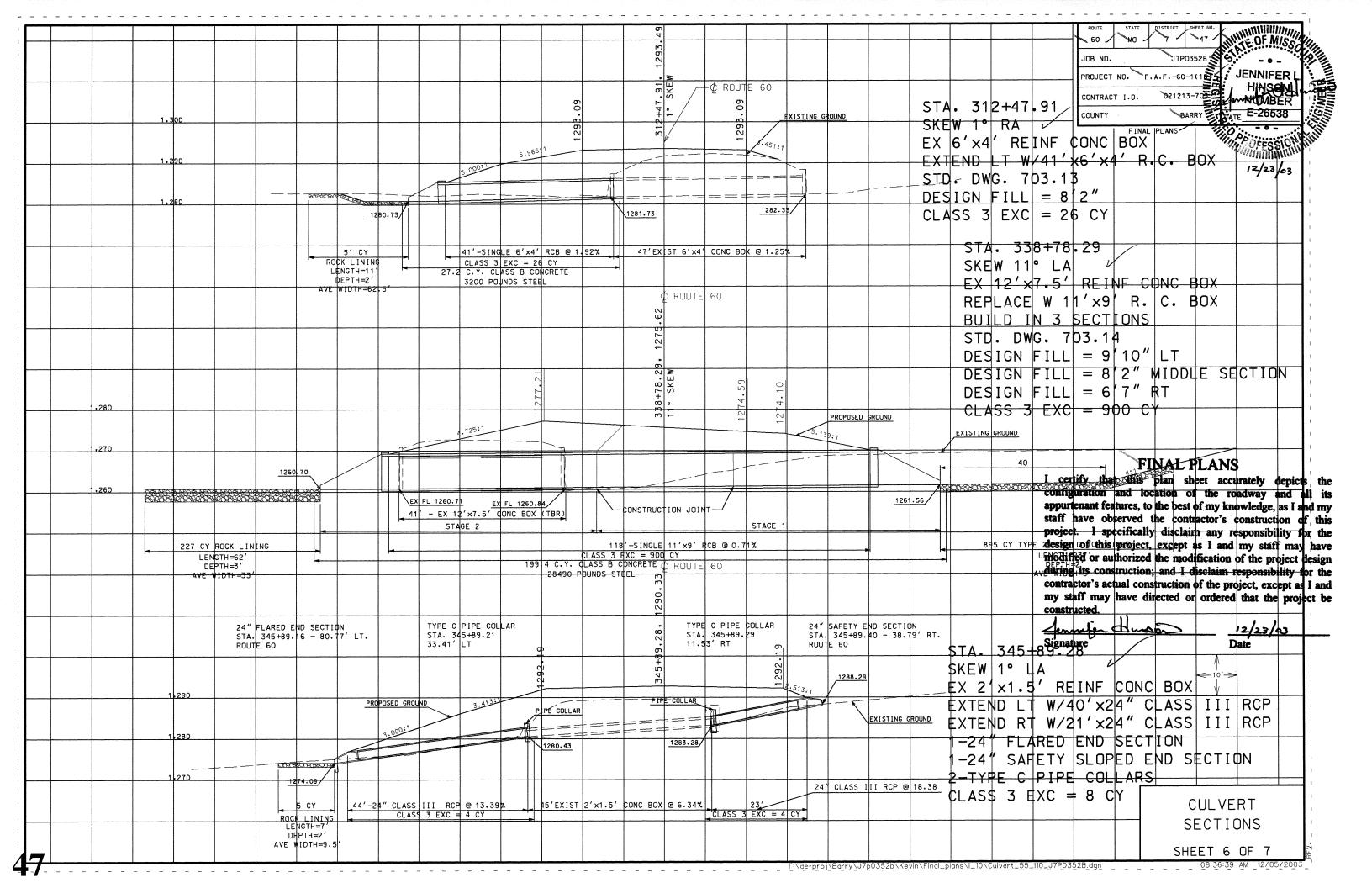


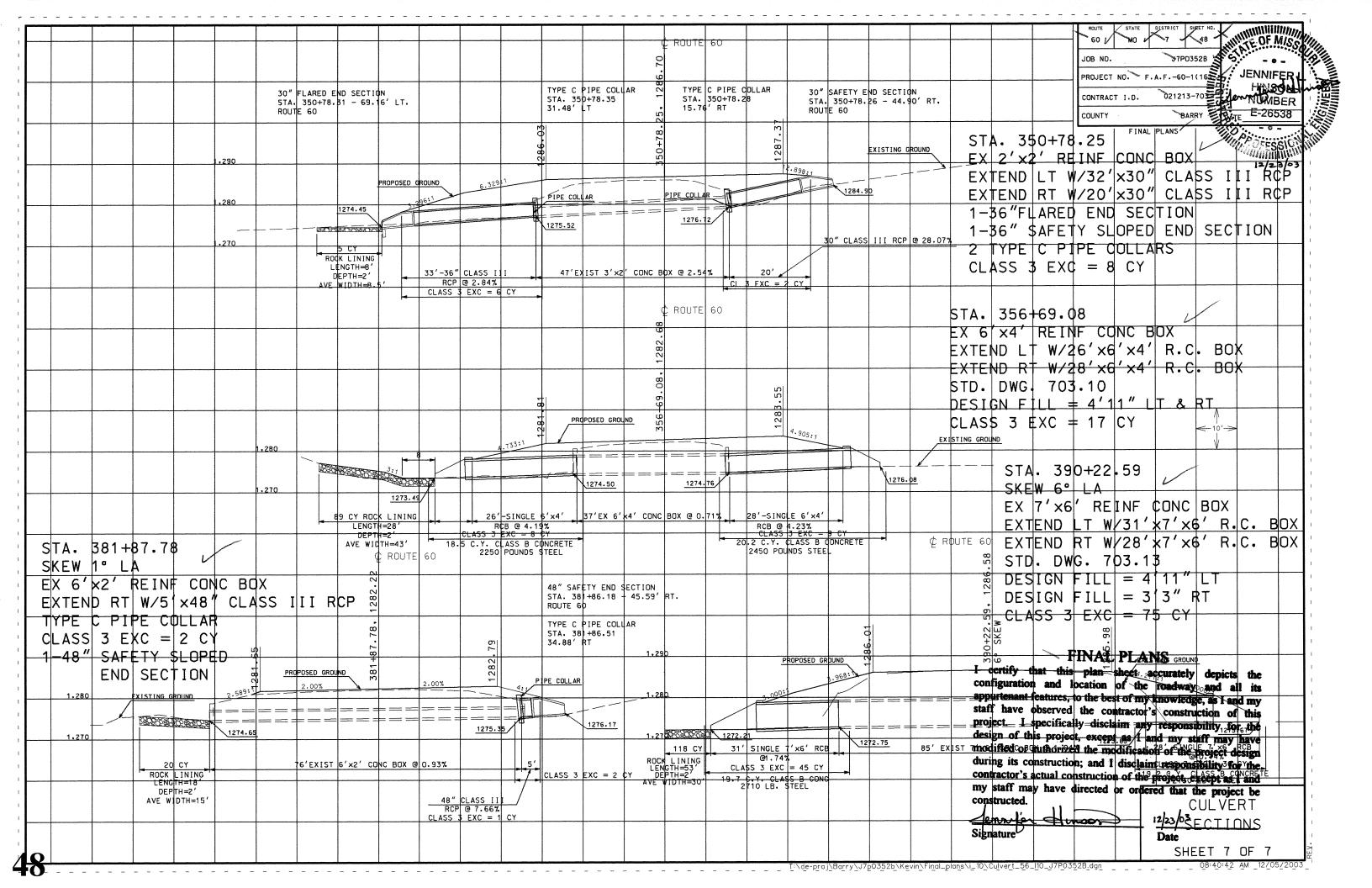


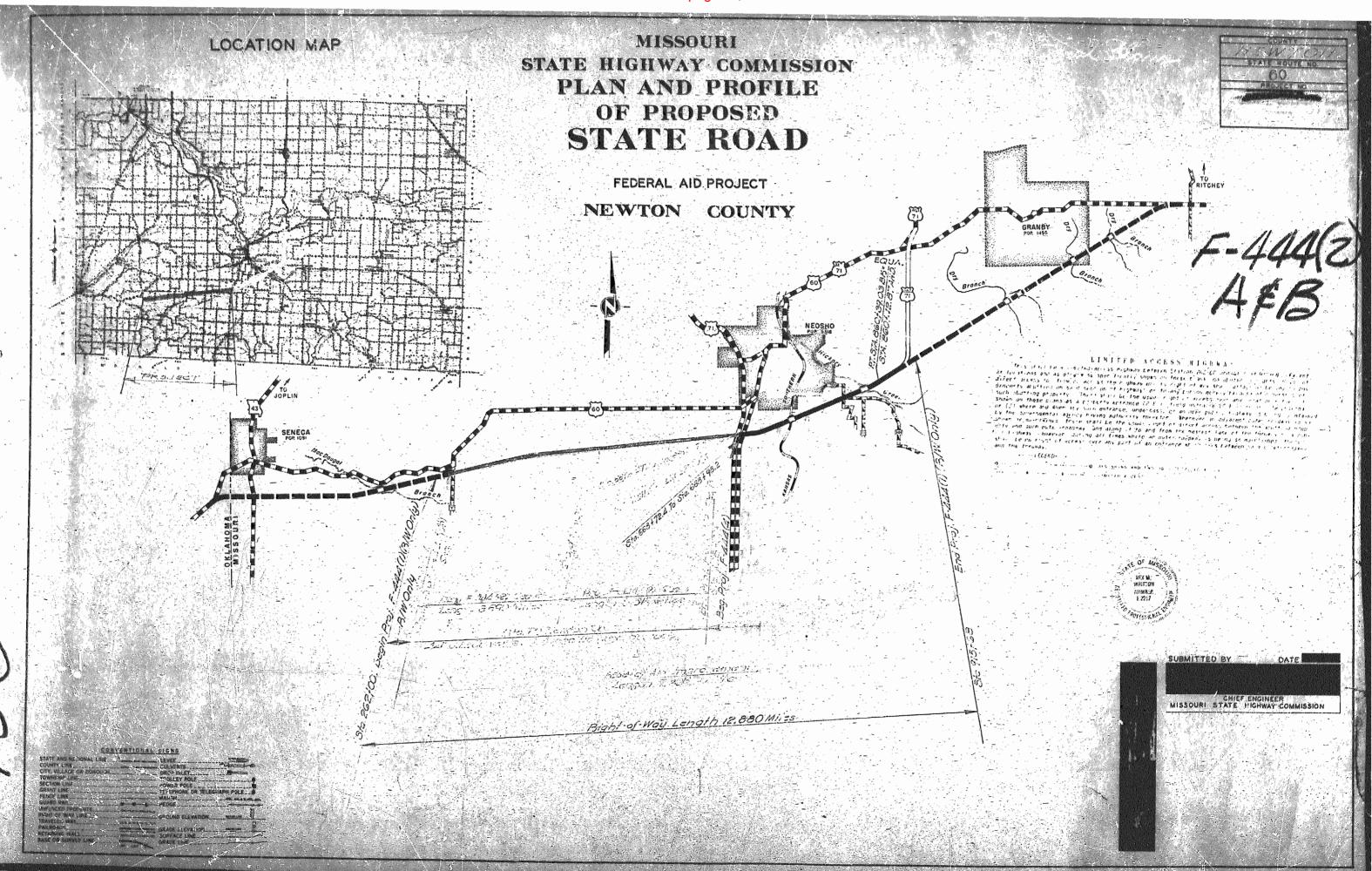


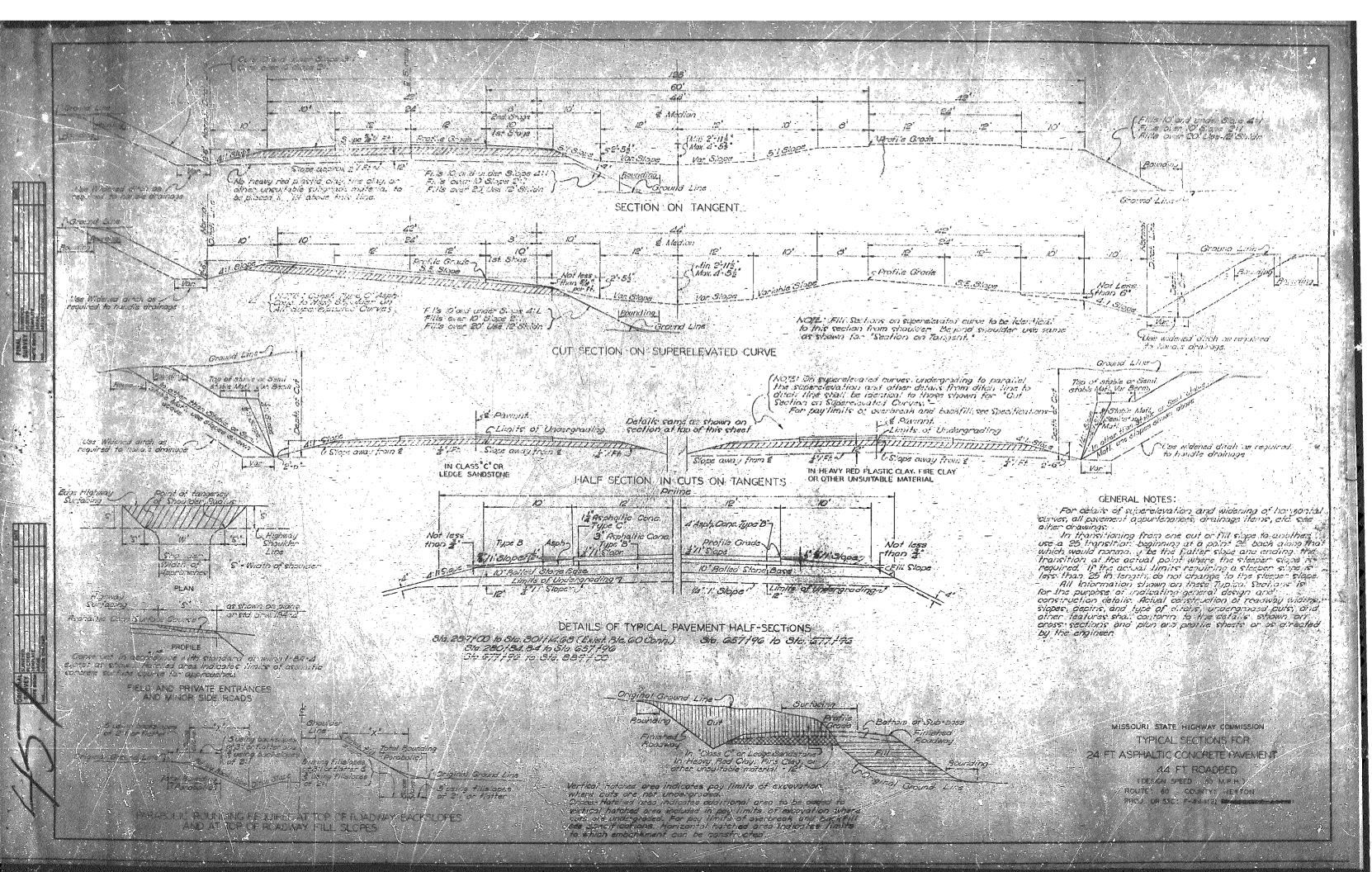


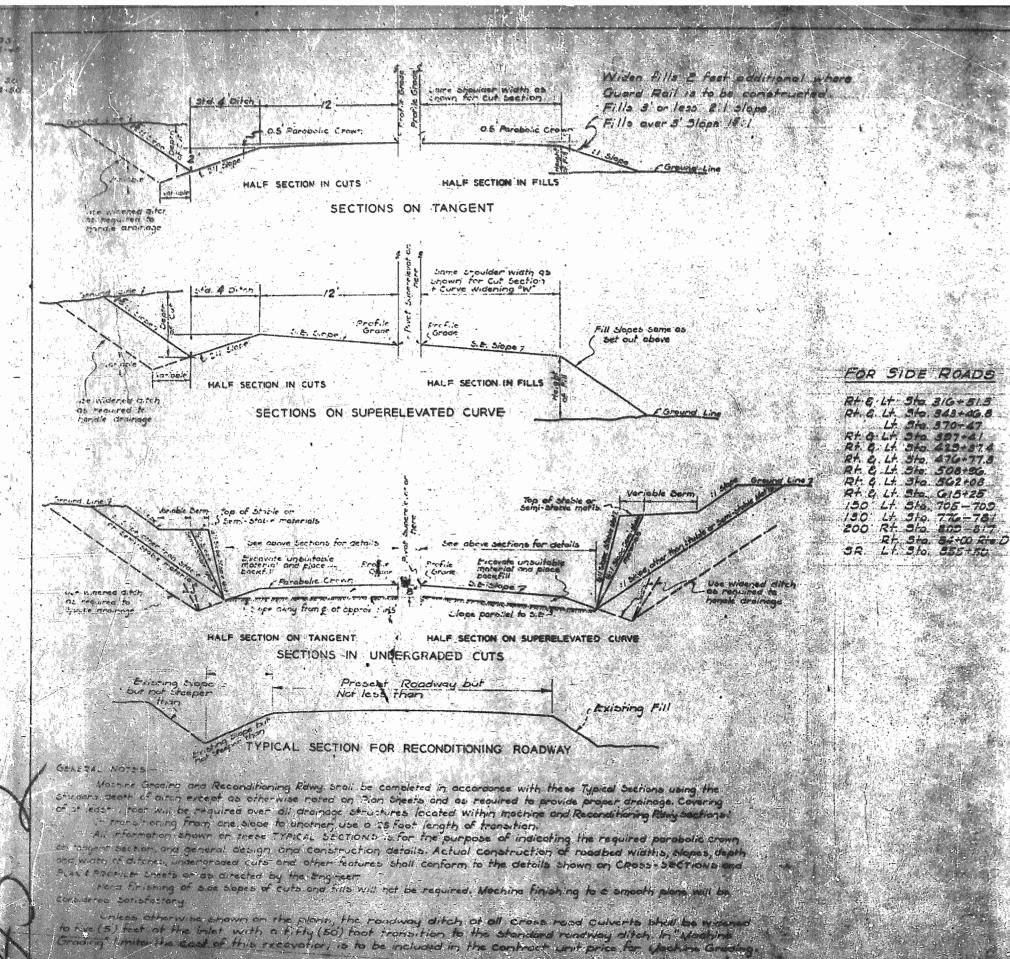












The east of constructing Ditch Blocks in "Nachine Grading Times is to be Contract Unit price for "Nachine Grading"

SCHEME OF WIDENING AND SUPERELEVATION TRANSITION.

SUPERELEVATION AND WIDENING DATA Design Speeds 30 or Less 35 M.R.H. 40 M.PH 45 M.PH 50 MPH 55 MPH. S W LT S W LT S W LT S W LT S of 0 15d of 0 56 02 0 150 08 0 150 02 0 150 03 0 160 02 0 150 03 0 160 03 0 160 03 0 160 03 0 160 05 0 150 05 0 150 05 0 150 .01 0 156 .02 0 150 .00 0 0 50 03 0 150 04 0 150 05 0 150 06 0 150 05 0 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 07 150 0 .02 g /150 .08 0 / 150 .04 0 / 150 05 b/ 150 06 0 .03 0 /150 .06 0 / 150 .07 / 150 .08 0 6° .00 0 / 150 .08 0 / 150 .06 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 0 / 150 .08 / 150 08 /0 150 08/ 20' 250

S-denotes Superelevation in feet per foot W denotes Widening of Surfacing and inside

Shoulder in feet
Ly-dehales kingly of Superelevation and/or Widening Transition in feet.
Crown is to be aliminated on Oll Superelevated Curves.

Values for degrees of Curve not shown in above table shall be identical with those for the nearest tabulated Curve. In Case of the use values for nest higher degree Curve.

Use SE, Widening & LT as listed on Plans.

MISSOURI STATE HIGHWAY COMMISSION TYPICAL SECTIONS

24 FT GRADED EARTH

SUPPLEMENTARY ROADS

(DESIGN SPEED ___ M.P. H.)

PROJ. 98-SEC: F-244(1) P70-524(3) F

ROUTE: GO COUNTY! NEWTON

ENGR. BURVEYS AND PLANS

LOCATION From Rule SY Nacth sashedy Towards Granky

TYPE Goodel Earth Culterla 1 18 Appliable Concrete Parement

## MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

FINAL PLANS

EXCAVATION			- GENERAL SUMMAN
to Garage Com Col Con a Control Remarks			TERMS AND ADDRESS OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY
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45 38864 5944 4949 1392 2880		- Constant Longin	7305 Miles 16-B Class B Concrete (Other than Box Cuth.) C.Y. 91.67.  - 18-B 12" Corn Metal Cuty Pipe (E4SR) LF: 1788
00 31611			18.8 15" " " " " " " " LE" 270%
08 13588 5762 1106 1089		OX CULYERTS	18:8 18" " " " LE 1804
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02+91 to Sta \$19:75 Lt. Former owner-Gilling Debsen, 12 125 CY. Borrows	568450 6 C 550" 4:4" 40"RAV 1977	869 12248 139 15.26-26-25 2:1 Built in sections Had Li	U.C.W. 11 18-C. 36 " " " " " L.F. 108
1168 to Sta 648+36 Rt. Former owner-Frank L. Adams, 5,742 CY Borrow	581725 & 2.530 V 414 45'LAY 175"	723 × 9462 × 1207 × 12.17-17-17:10 2:1	15-C 42 " " " LF. 100
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He Classing Scienting C. F. U.L. C. C. U.L. Translate Vil Mark Fortends	Tettis		18A-A Metal Arch Culverts (Tupe B-7) L.E. Bound Brand Breit
G C 30		7893   87824   12955   1 Measured Quan.	19-A Reinforcing Steel Underdrains Life 1811
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180 20 106 1 08	336/28		2-B Spreading, Shaping & Comparting (4") Mile 0.86
838 728 4 3.50 6 5 4 7.50	347156 105 7	36 7 2.C.250-RE 492 5 984 / 45 RA 1.5 EIII -	· 1942、 [4] - [4] [4] [4] [4] [4] [4] [4] [4] [4] [4]
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Y BURE 934R GG9A	431/2	67 1.C.231.80 2.96 241 - 10 Fill Had	
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	625too 87'Y	28 25 20 EC 3.82 312 30 RA 5 F.II	
	634190 95"	51 2.C.280RC 3.10 300 25 RA 6 F.II	ROADWAY CONTINGENT ITEMS
	Parete age / A / A / A		Placing Rock Fill CY 959
GUARD BAIL: TYPE A	TOTALS 228 608 240 108 103 202		15 Core Metal Culv. Pige Turnel over to State L.F.
100 Te Marian Caration Lin Et Dannaha		*Measured Quan.	Cutting & Delivering Asphaltic Cone. Samples Each  Tile Unigerary taken over from contractor L.F. 16.11
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2001 Committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the c	DZAIN BALIJE	RAINE & DAVEN DITCHES	
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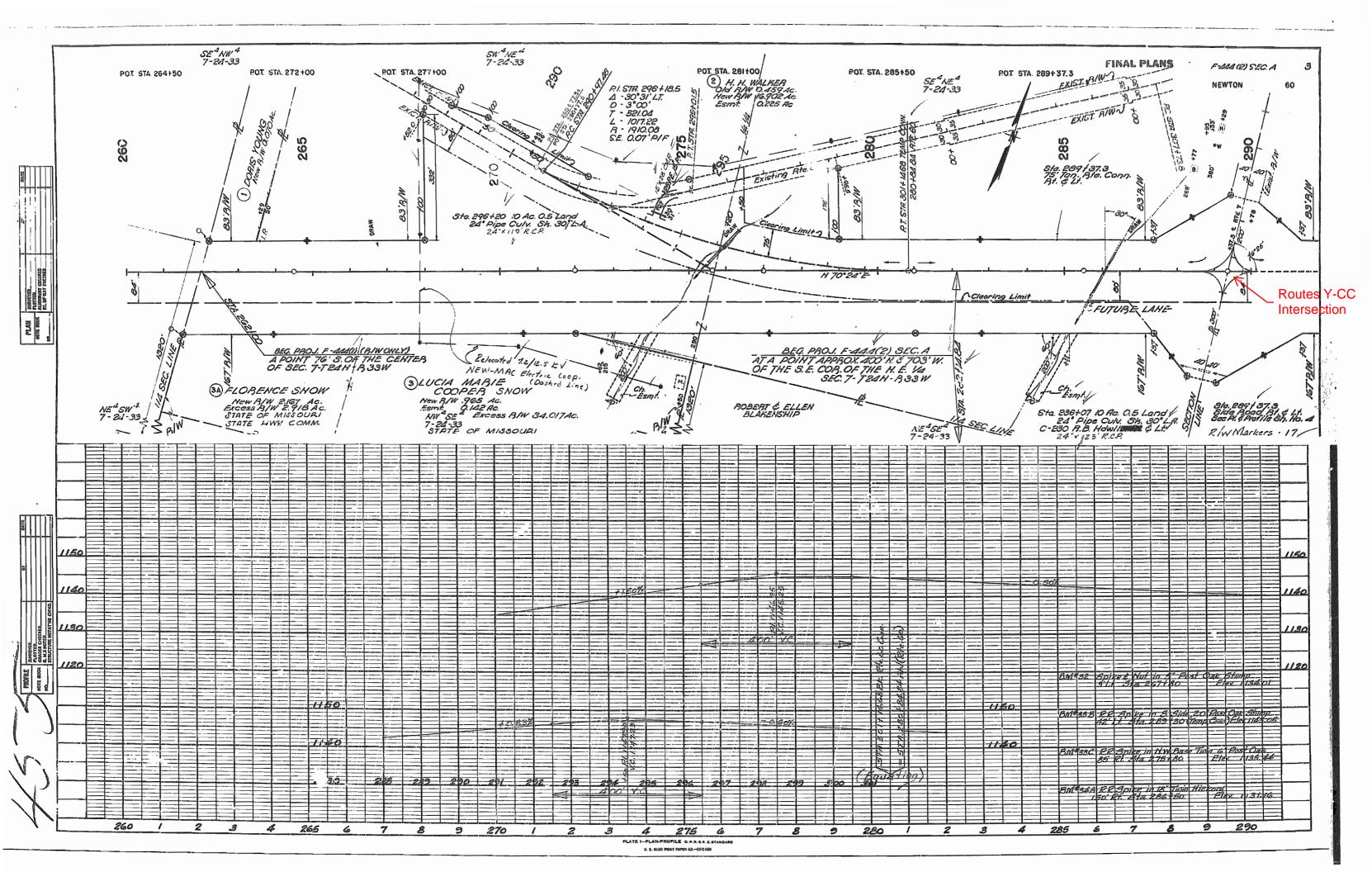
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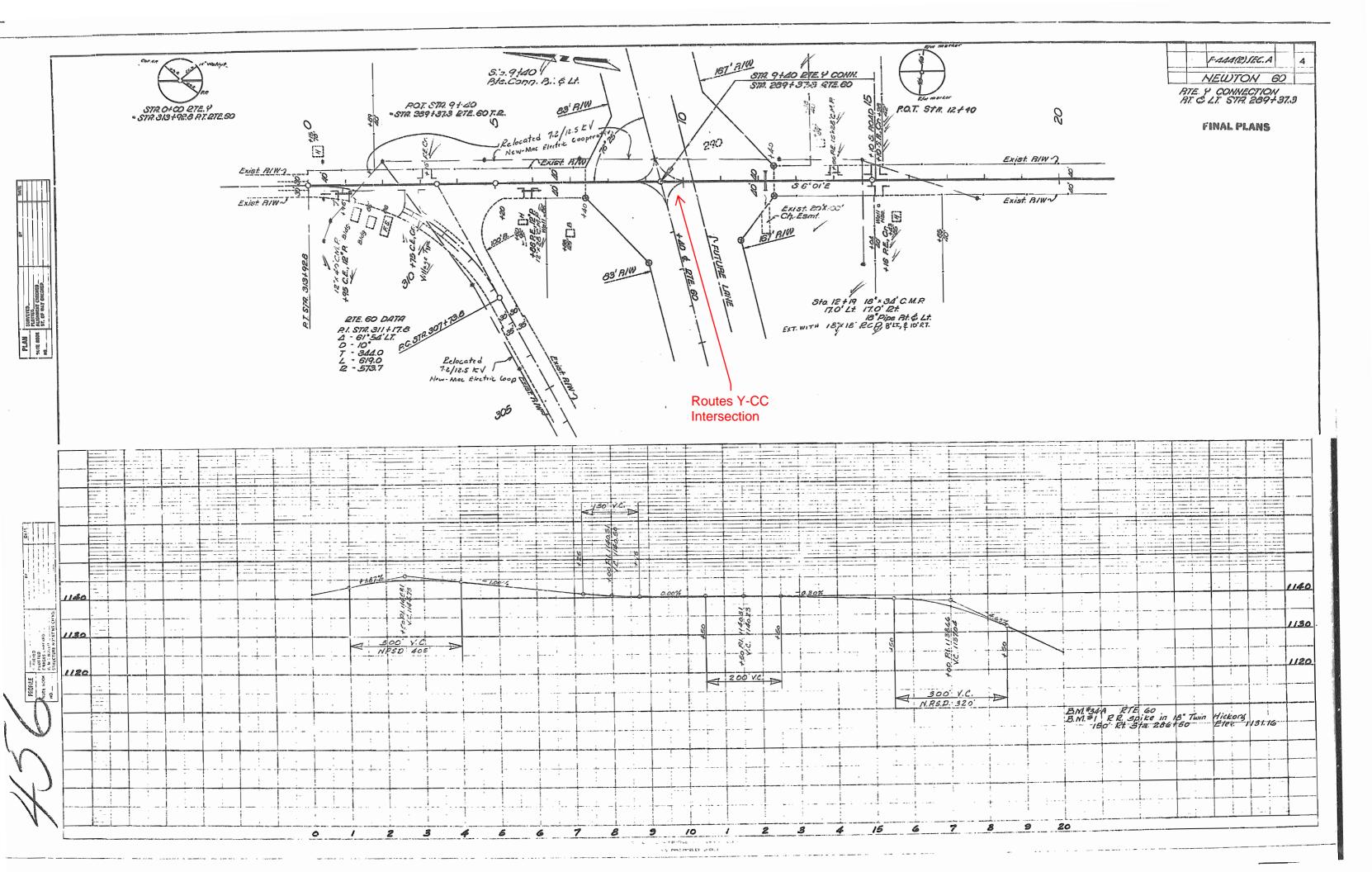
## MISSOURI STATE HIGHWAY COMMISSION

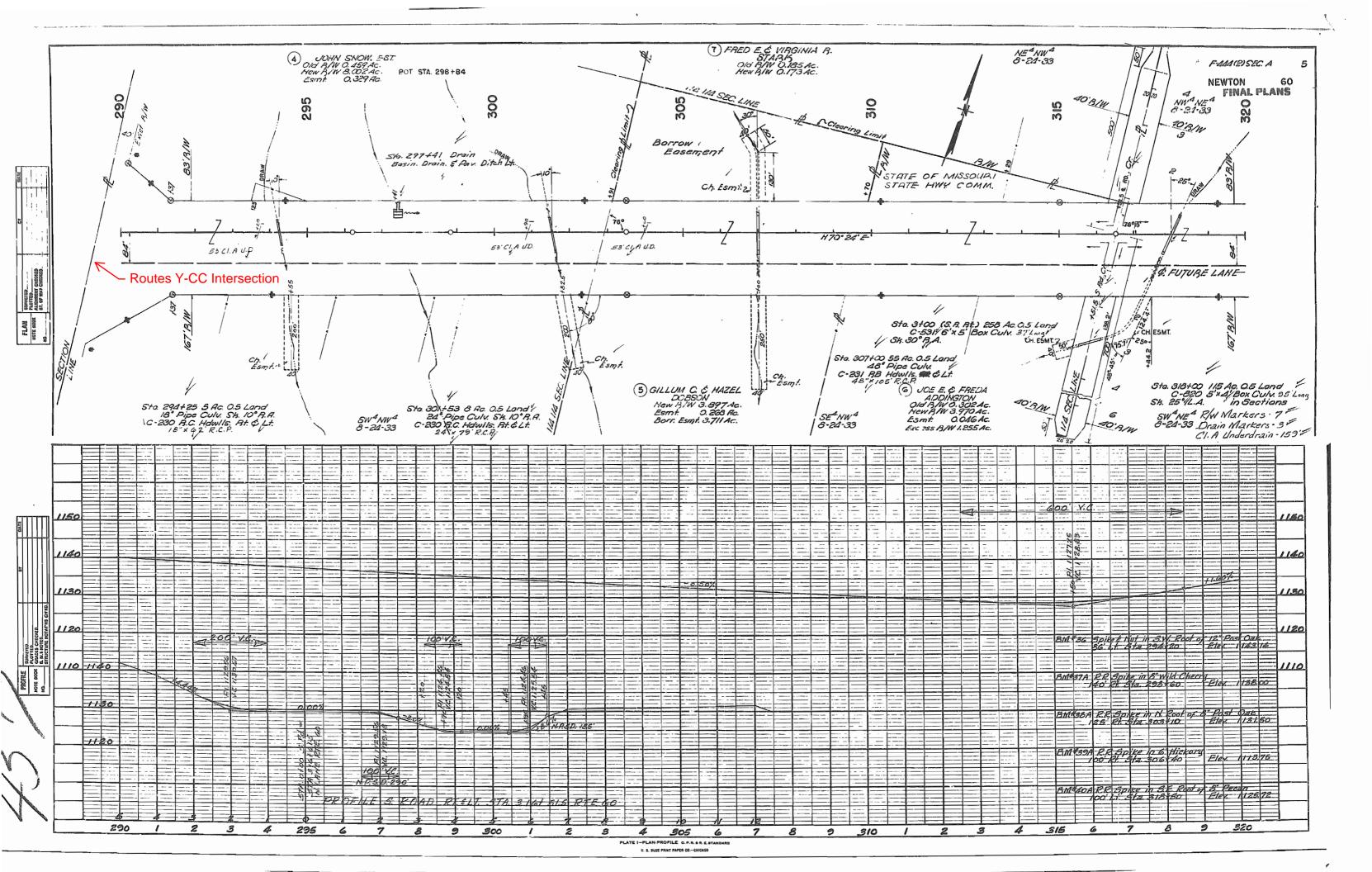
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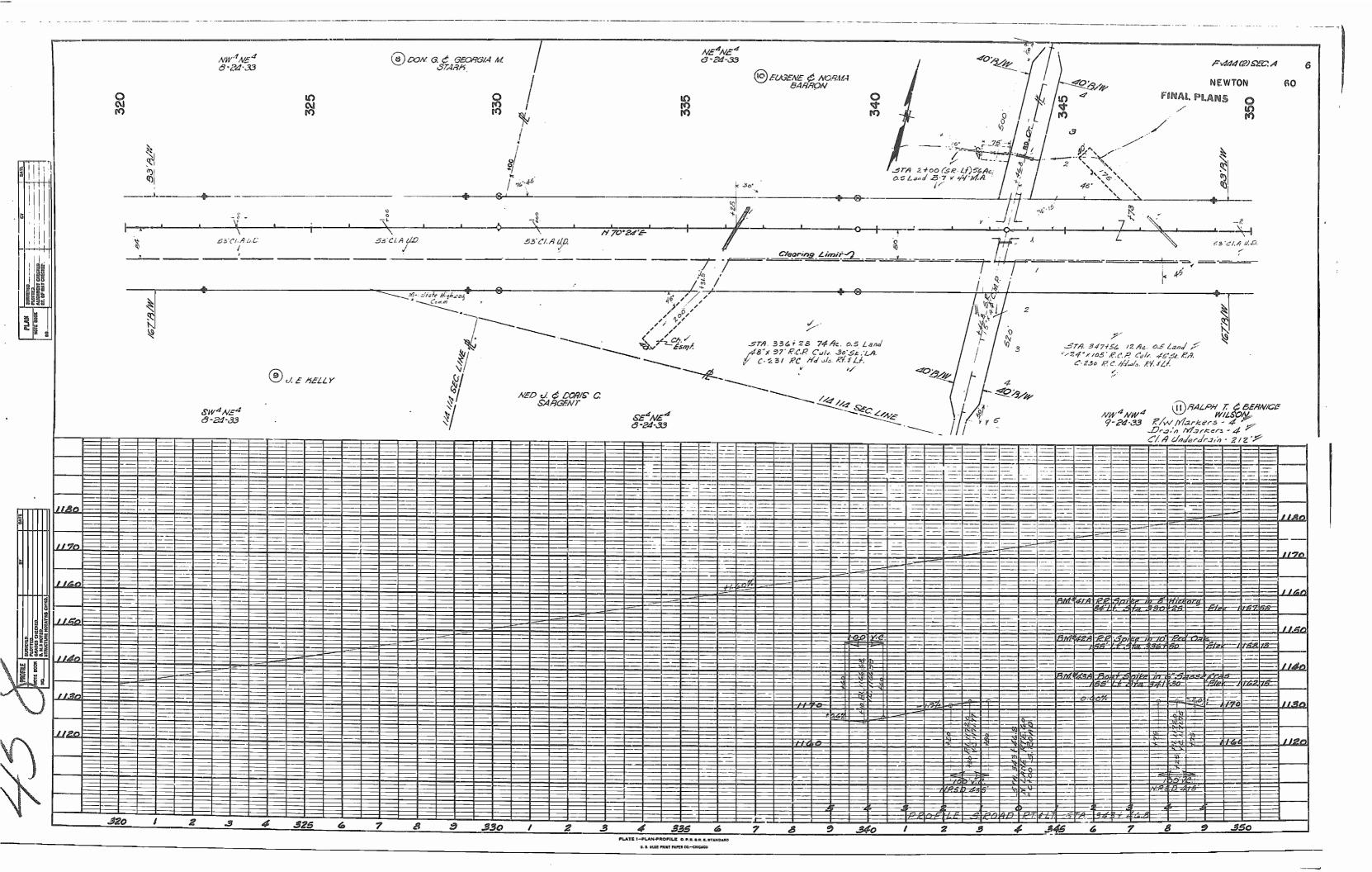
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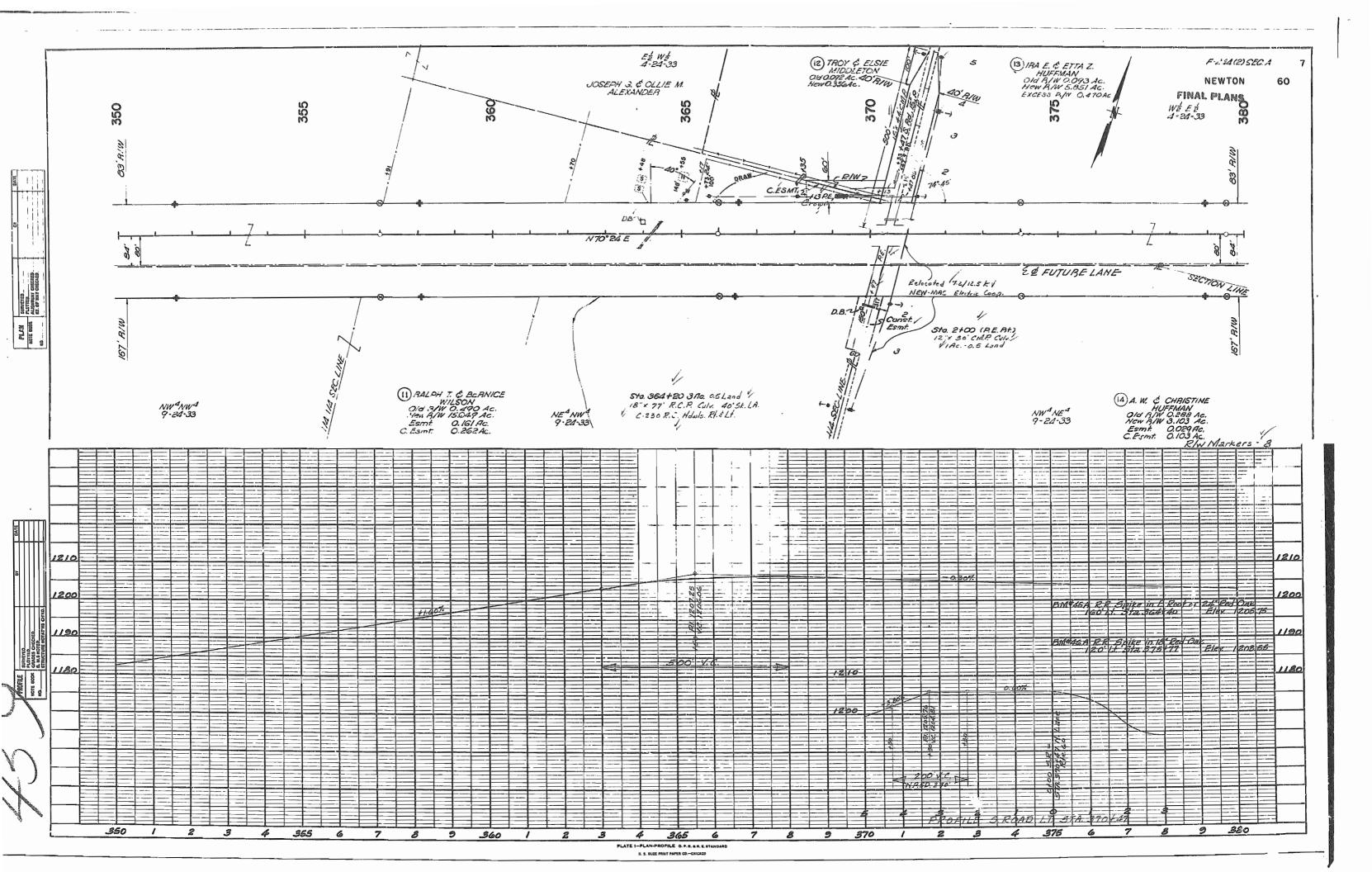
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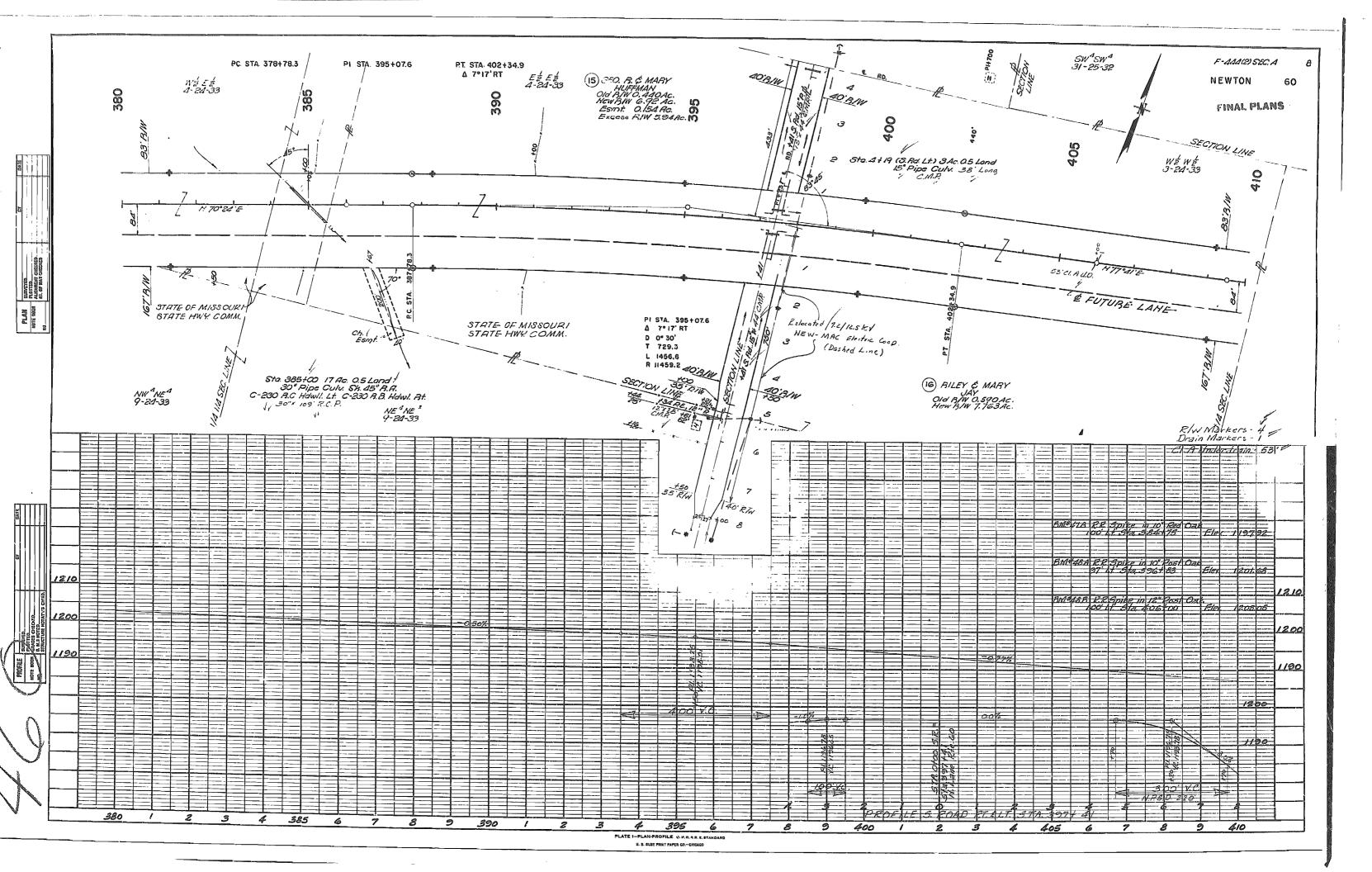


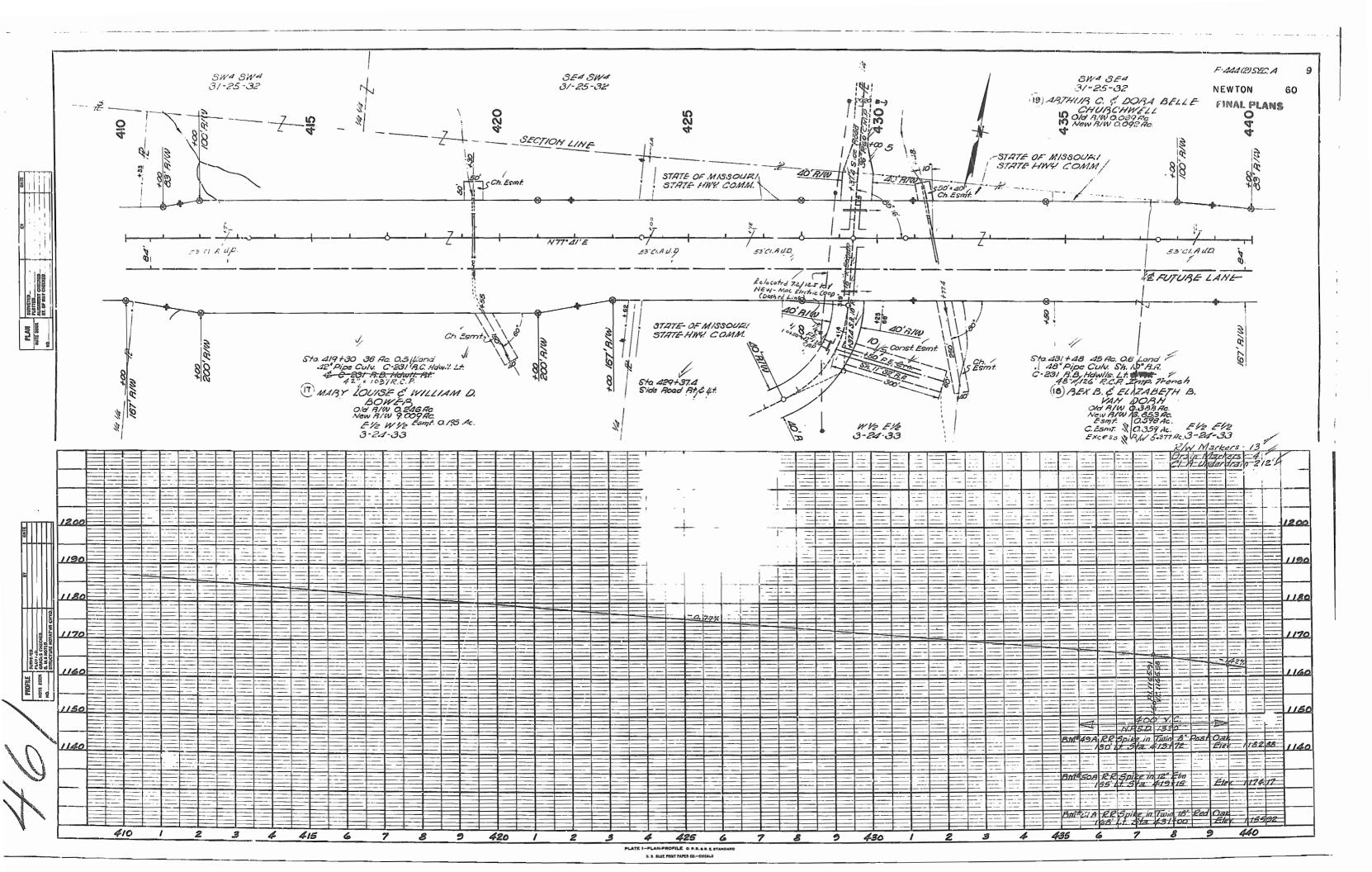


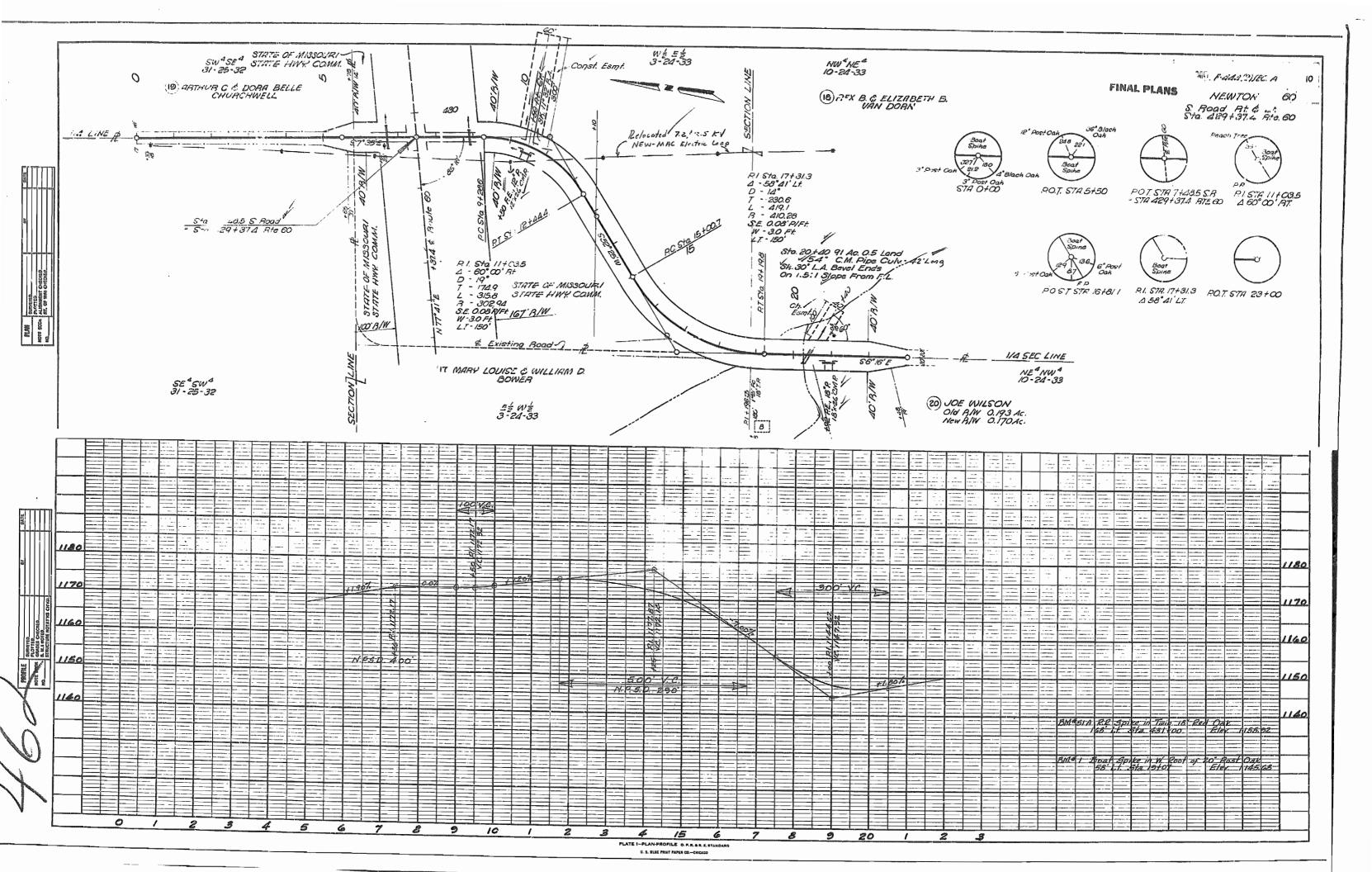






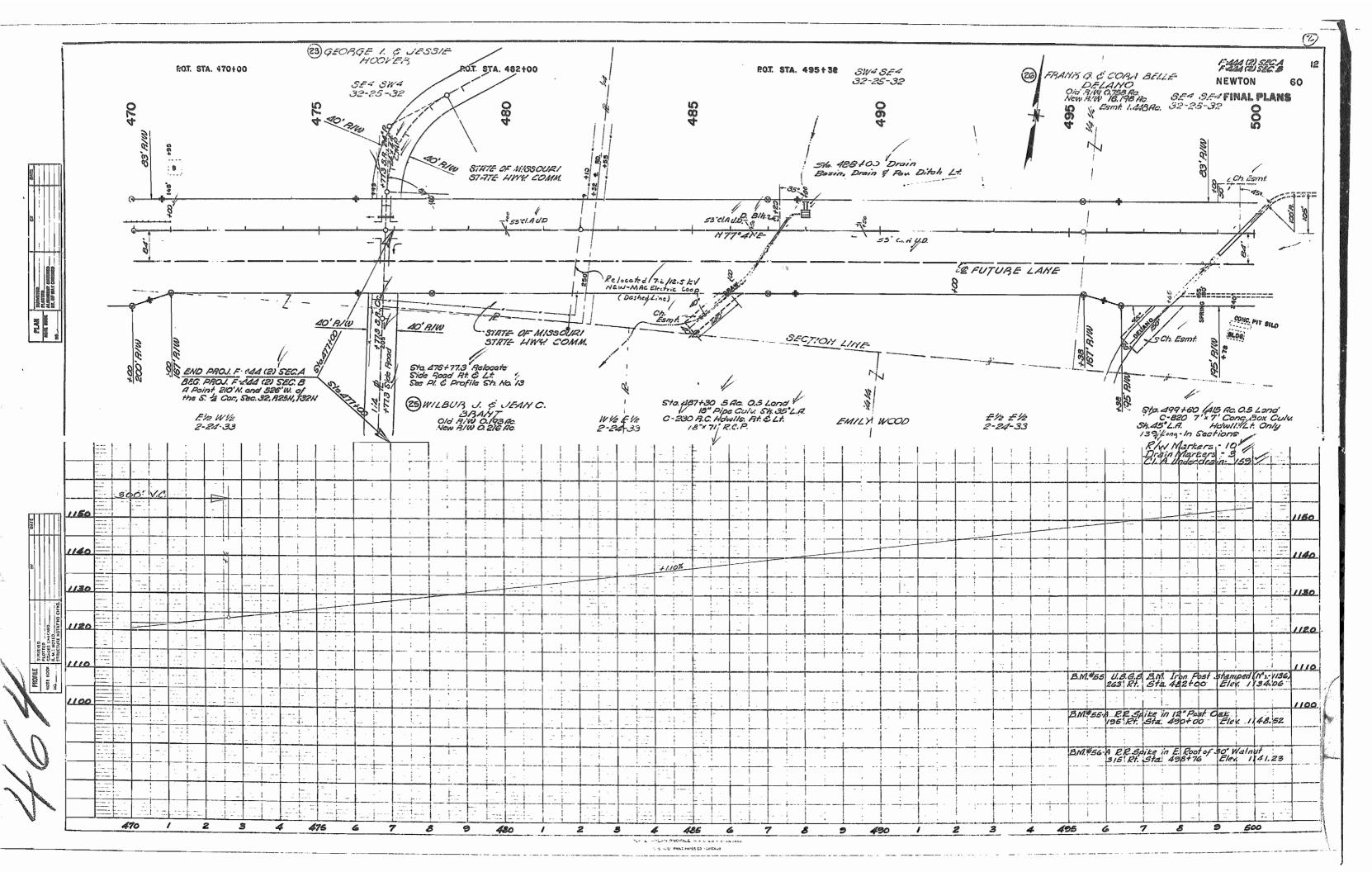


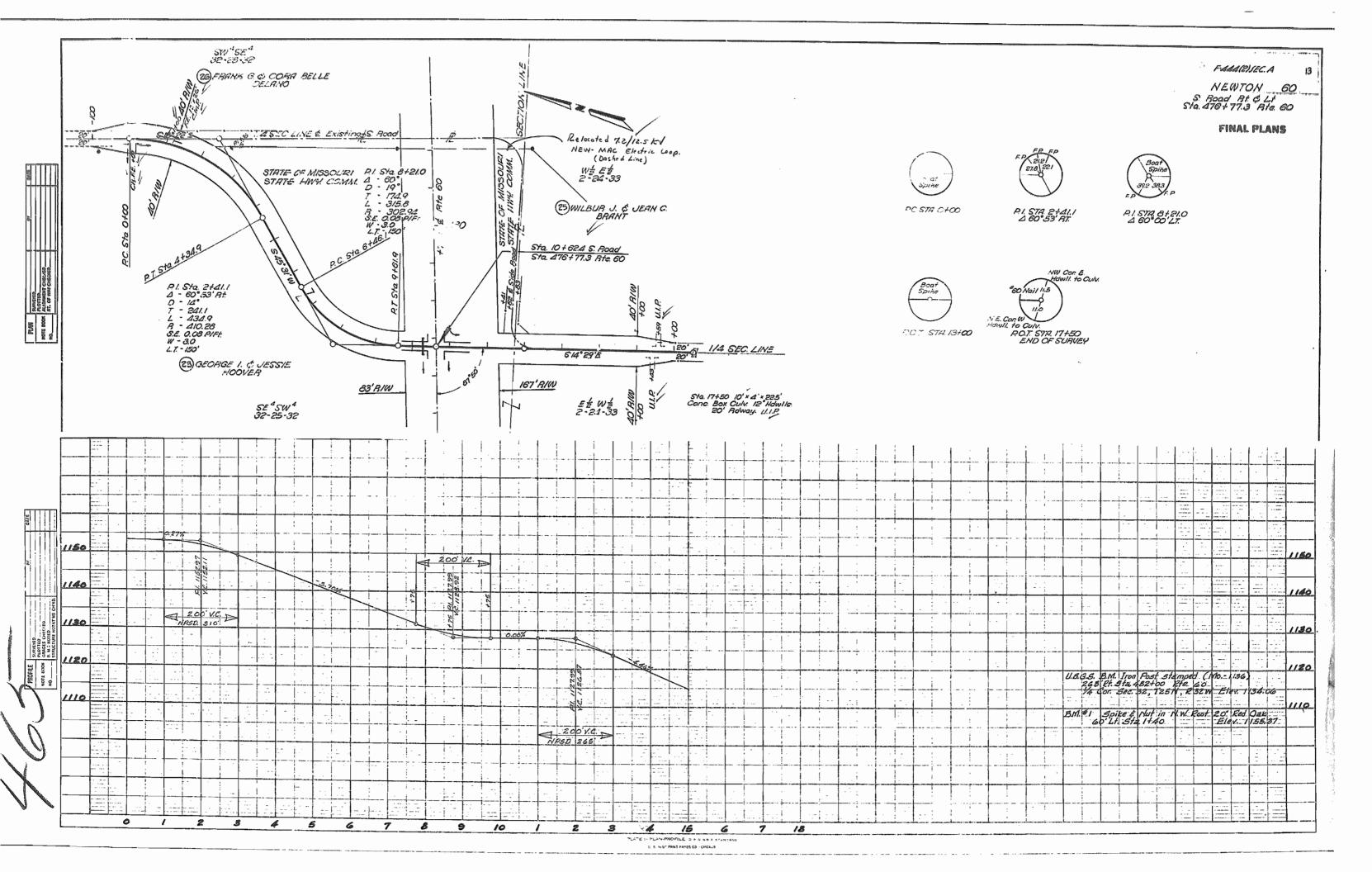


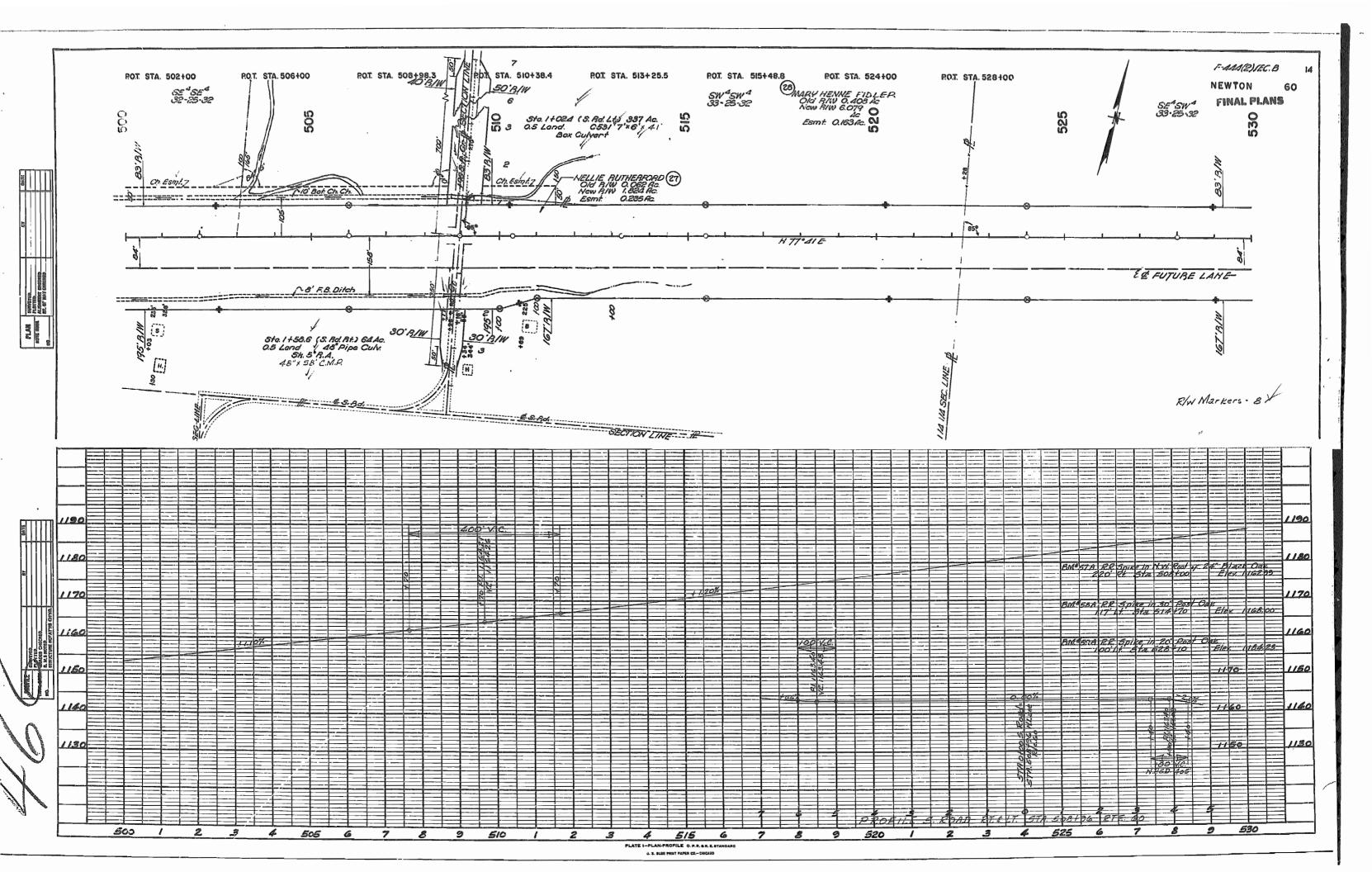


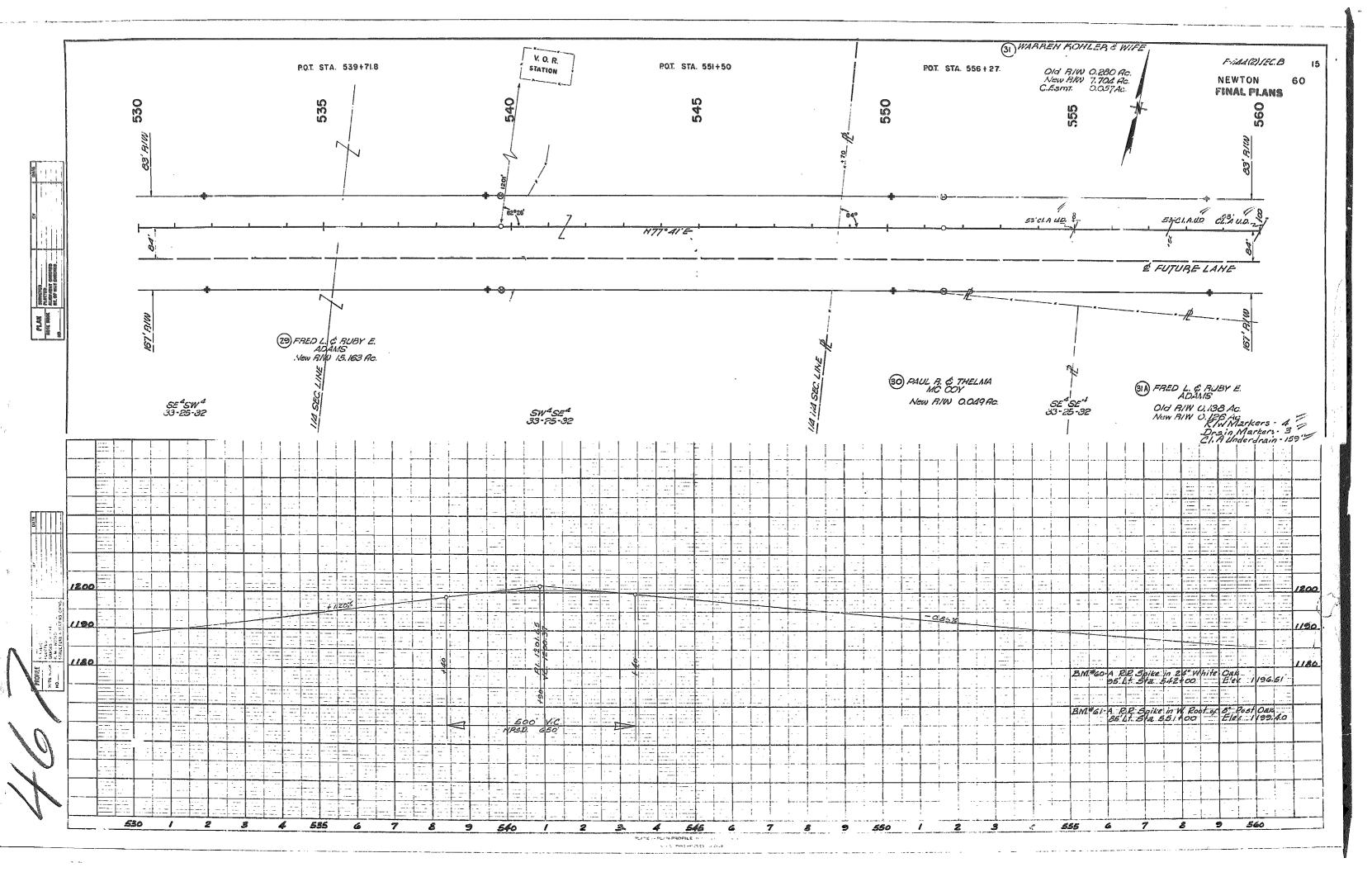
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Drain Markers - 5
CI. A Underdrain - 265 1170 LEO -1.42% 1130 PROFILE NOTE BOOK BM #528 RR Spice in 36" Post Out 1100 100 B.M. \$53-A R.R. Spike in 24" Post Dak. 85' Lt. Sta. 463 30 Elev. 1116.98 1090 B.M. \$54-A R.R. Spite in 36" White Oak. 155 Lt. \$12. \$68 + 35 Elev. 109926 440 2 446 9 465 450 2 3 455 8 9 460 2 3 6 6 PLATE .. PLAN PROFILE DAR SER I STINGLE

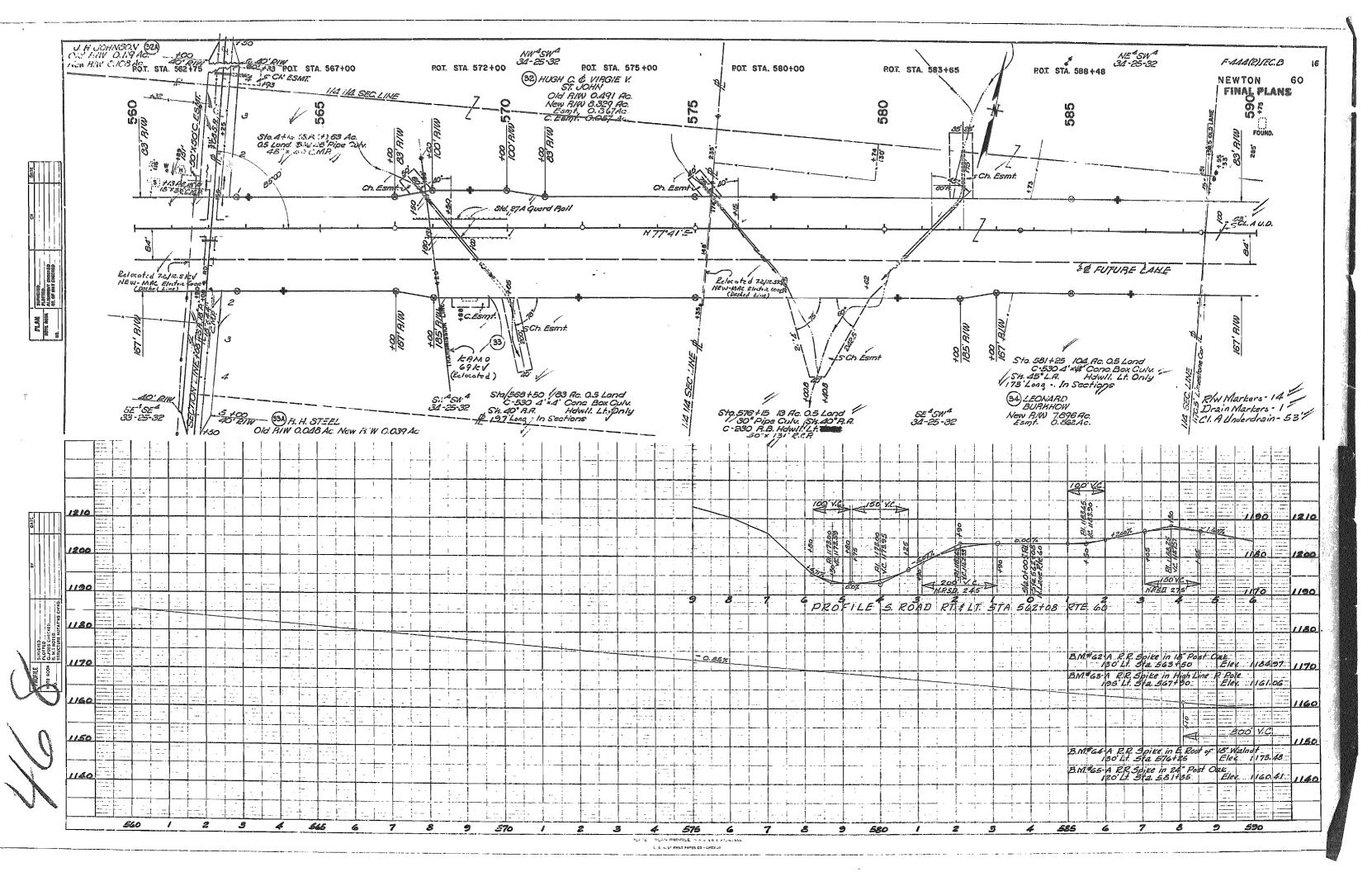
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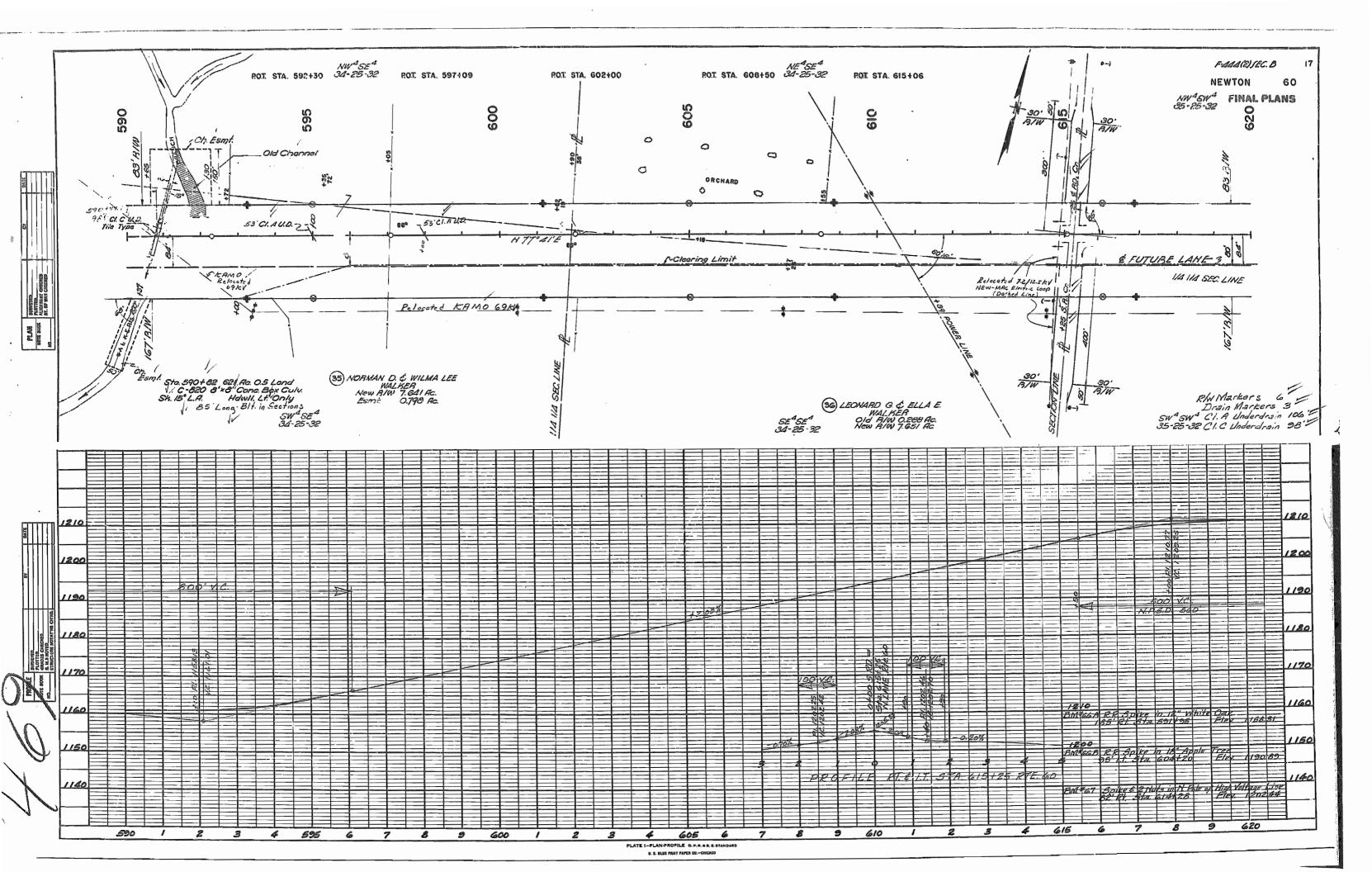


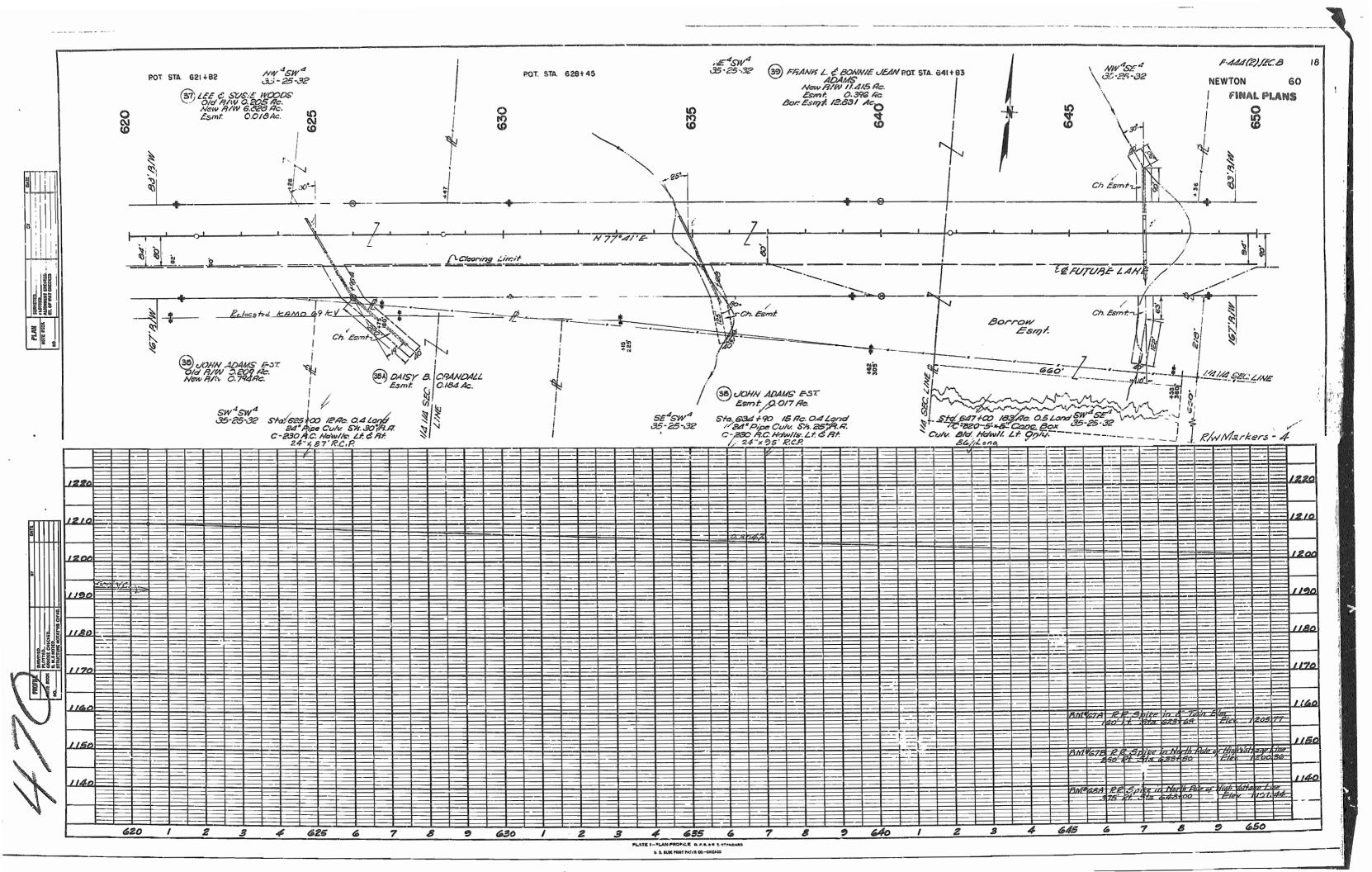


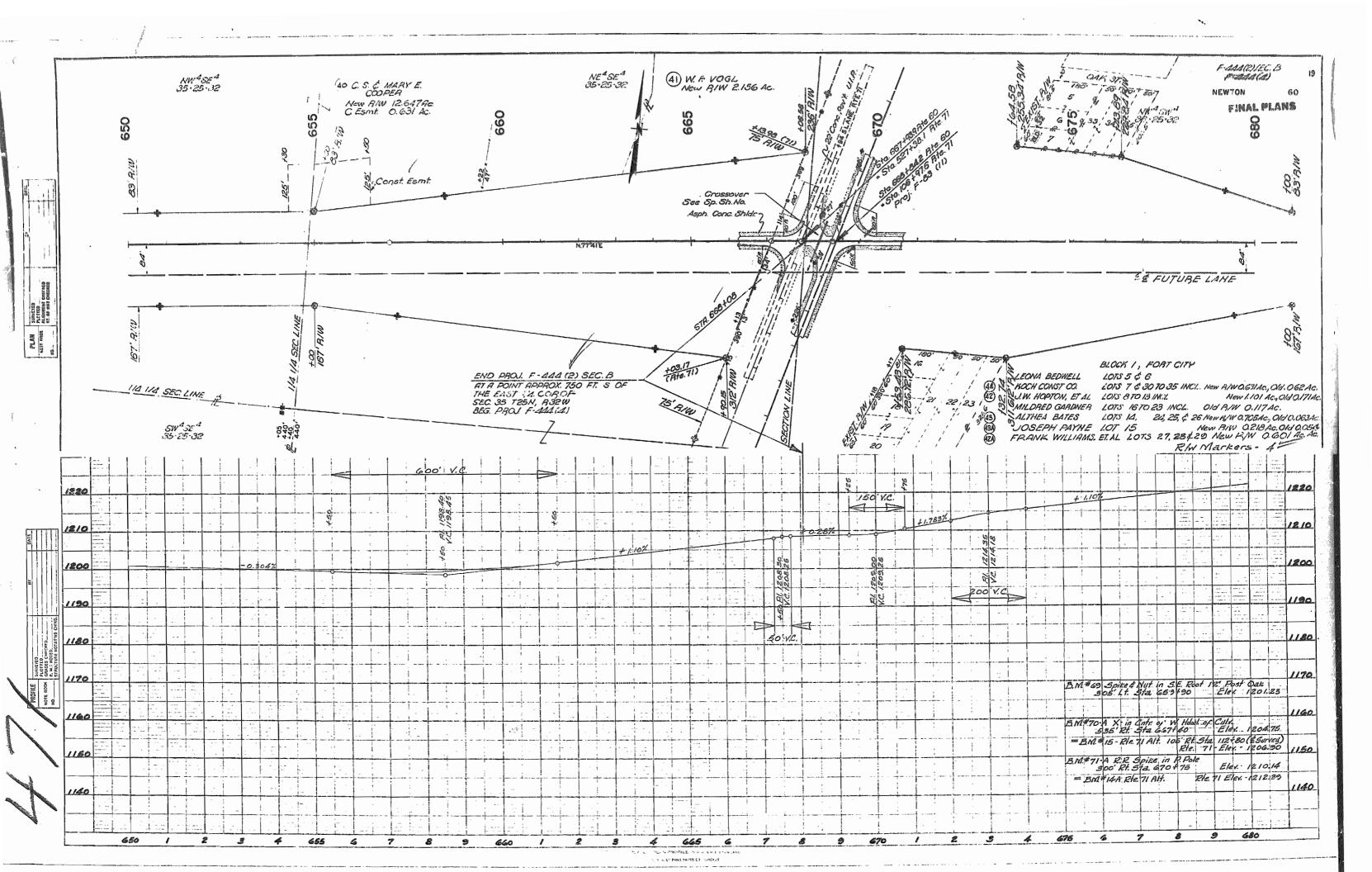


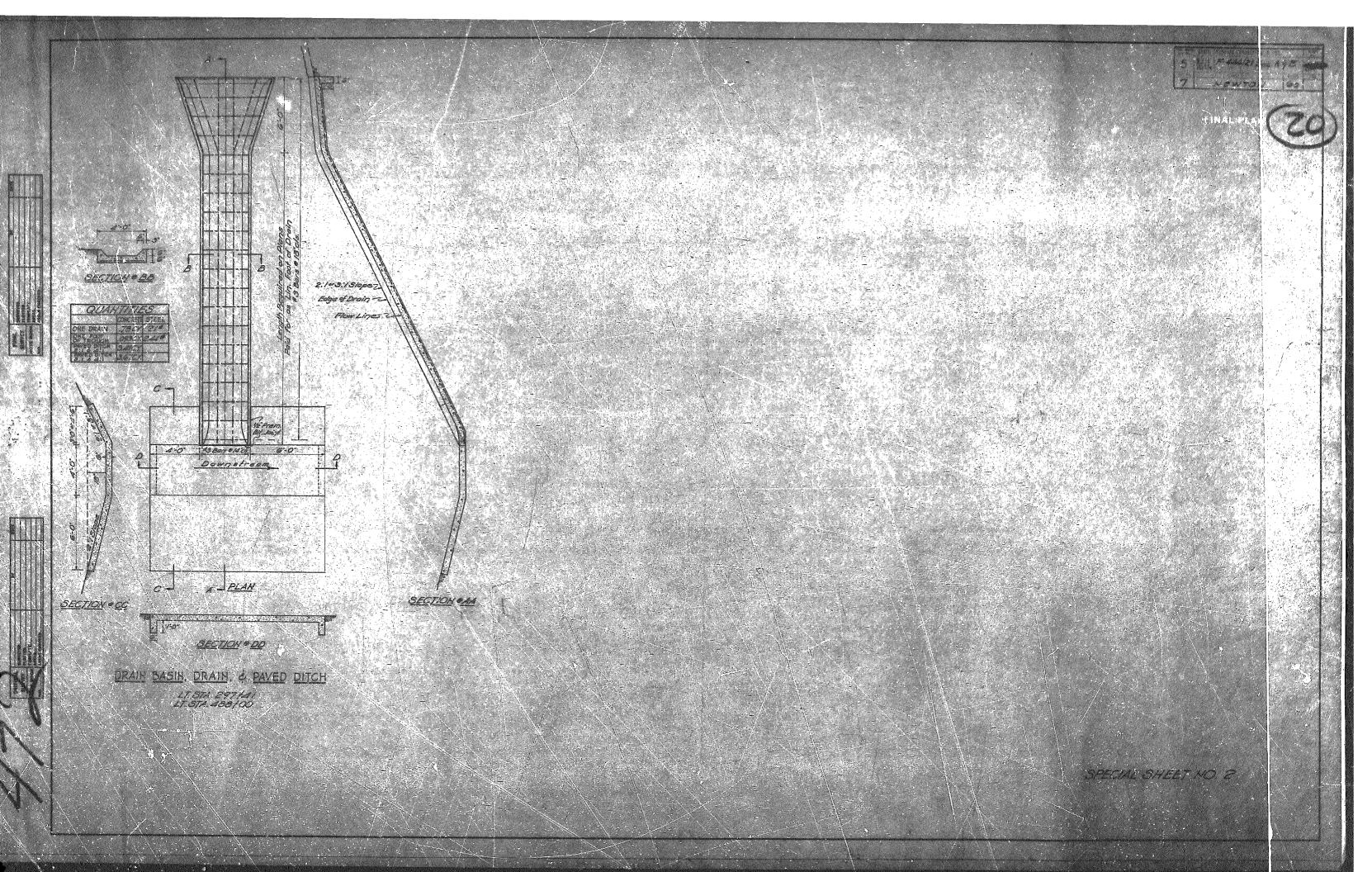












## LIST OF STANDARD PLANS

PROJ. SHEET

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CO. RTE.

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181-4		(6-9-54)			A control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont	a Laurinia para di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Carante di Car
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#### **DESIGN DESIGNATION**

A.D.T. - 1993 = 2580 A.D.T. - 2013 = 3890

D.H.V. = % T = 9%

V = 50 M.P.H.

#### PARTIAL LIMITED ACCESS HIGHWAY

This stall be a partial limits access kighwat.

Eft at locations and as otherwise specifically win on these plans, no abutter's rights in, or of sect access to, from or across the memmay or is pt-op-may shall attack or belong to any property iting on said section of highway, or to any property iting on said section of highway, or to any preson lely because of ownership of such abutting

## **CONVENTIONAL SIGNS**

**BUILDINGS AND STRUCTURES** 

GUARD RAIL
CONCRETE RIGHT-OF-WAY MARKER
STEEL RIGHT-OF-WAY MARKER

WOVEN WIRE LITHITES POWER GAS WATER

NOTE: DASHED OR OPEN SYMBOL INDICATES EXISTING FEATURE

# MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION PLANS FOR PROPOSED

STATE HIGHWAY

FEDERAL AID PROJECT

**NEWTON-BARRY COUNTIES** 

AWARDED SEP 08 1993 COUNTY NEWTON-BARRY ROUTE 60 PROJECT STP-FY93(3) JOB NO. ____ J7P0360 /

R/W NO. J7P0360 /

#### INDEX OF SHEETS

CHEET

	onesi
DESCRIPTION	NUMBER
TITLE SHEET	1/1/
TYPICAL SECTIONS ( 2 SHEETS)	
SUMMARY ( / SHEET )	\ 2-á
SUMMARY ( 5 SHEETS)	2-B
PLAN-PROFILE	3-16
REFERENCE POINTS	15-16
SPECIAL SHEETS	,
LIGHTING	
SIGNALS	. \
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CULVERT SECTIONS	29-35
BRIDGE DRAWINGS	\
STANDARD PLANS INDEX	1 /
CROSS SECTIONS	. \
COMPUTER DATA	1//
Class 3 Exc Cross Soctions	37-39

#### LENGTH OF PROJECT

END OF PROJECT BEGINNING OF PROJECT

APPARENT LENGTH

EQUATIONS AND EXCEPTIONS 2006+94.1 Bk. = 0+00 Ahd.

112+99.56 Bk.= 149+13.0 Bk. =

TOTAL CORRECTIONS NET LENGTH OF PROJECT

STATE LENGTH

FEDERAL LENGTH

5.882 MILES /

158+47.0

- 169,635,35 FEET

+200,694.10 FEET

+ 200,692.16 FEET

- 13.54 FEET

+ 11.60 FEET

31,050.81 FEET -



### MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUBMITTED

Men -24-93 CHIEF ENGINEER

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

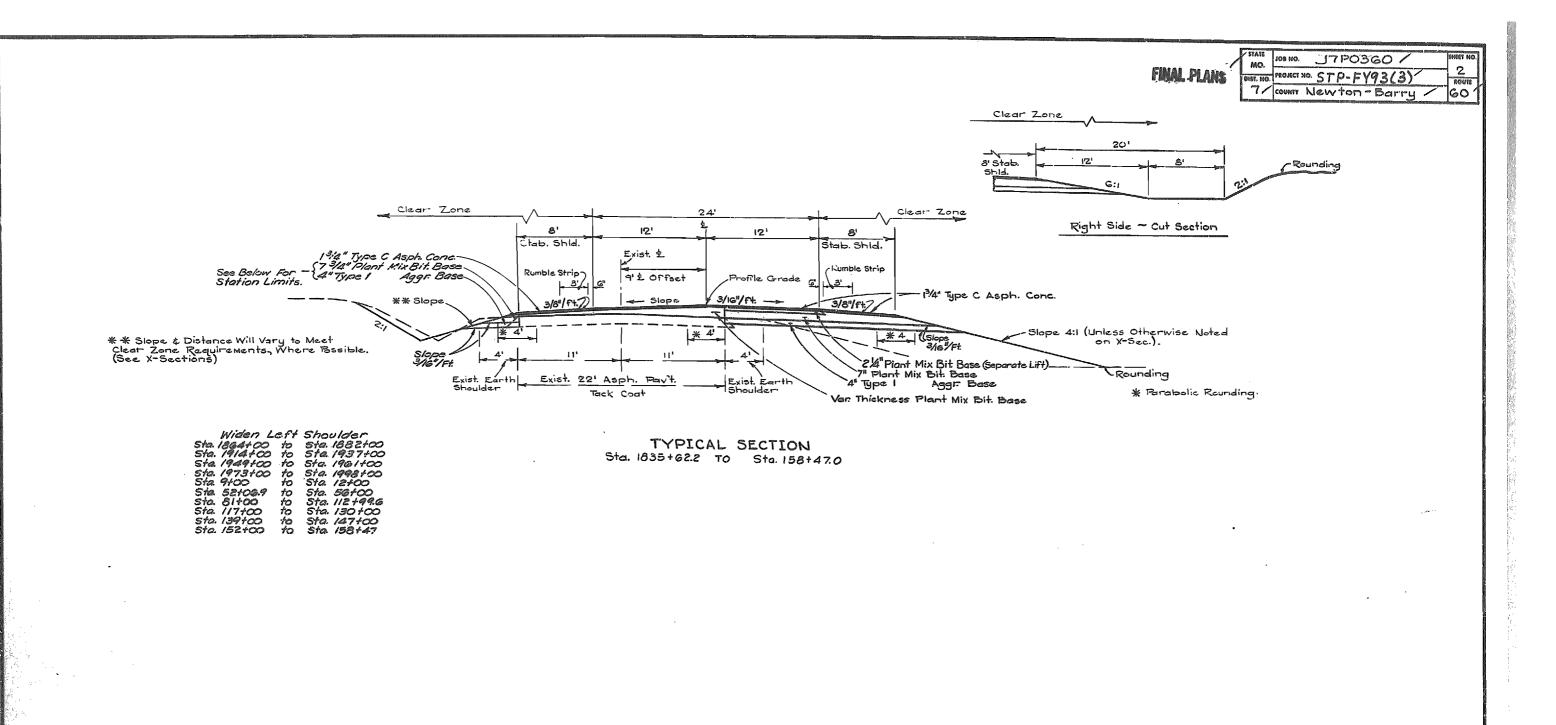
APPROVED

DIVISION ADMINISTRATOR

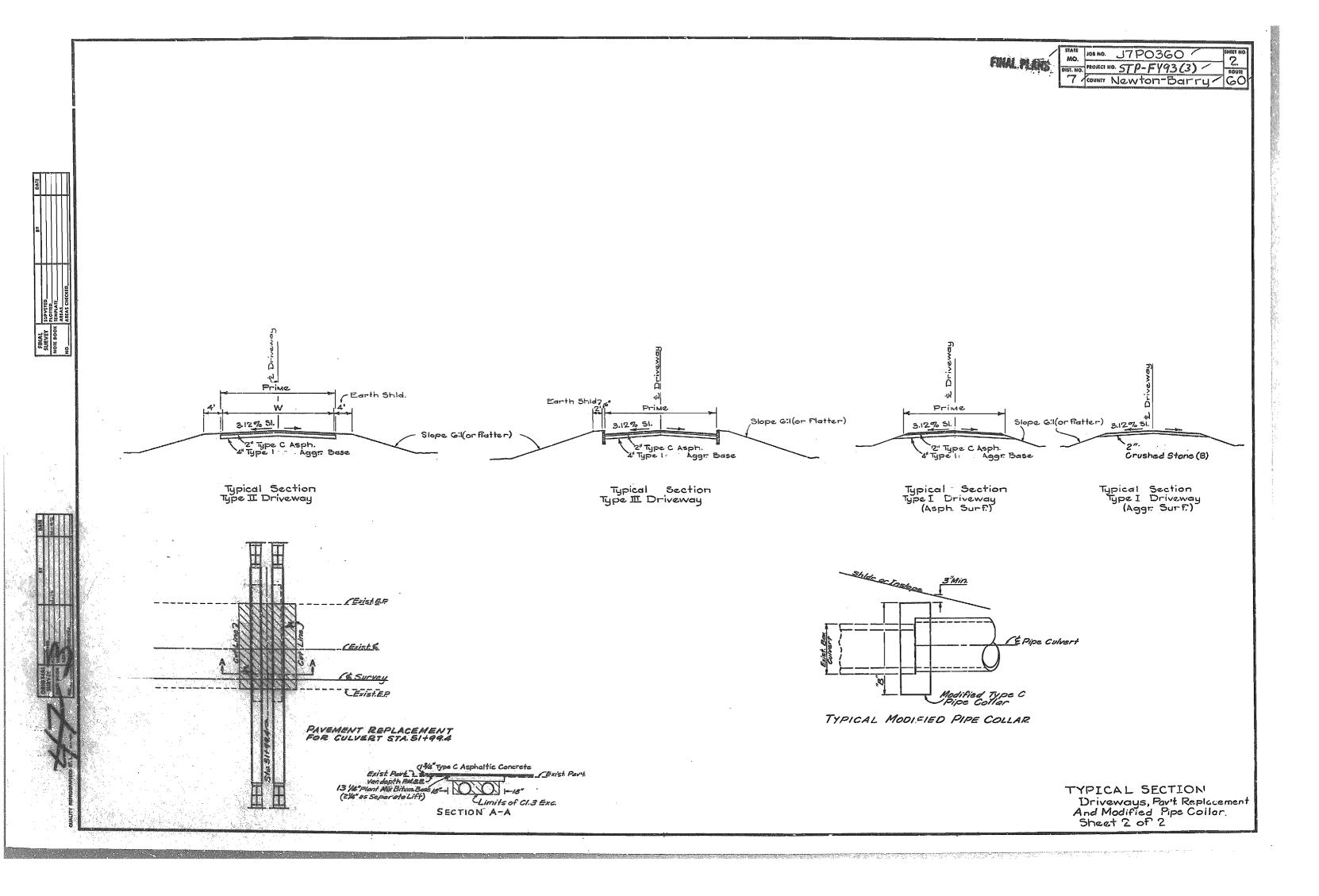
DATE

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32 33 T 25 N 3.5 MILES SCALE IN MILES



TYPICAL SECTION / Route GO / Sheet 1 of 2 /



## MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

### SUMMARY OF QUANTITIES

UNIT QUANTITY

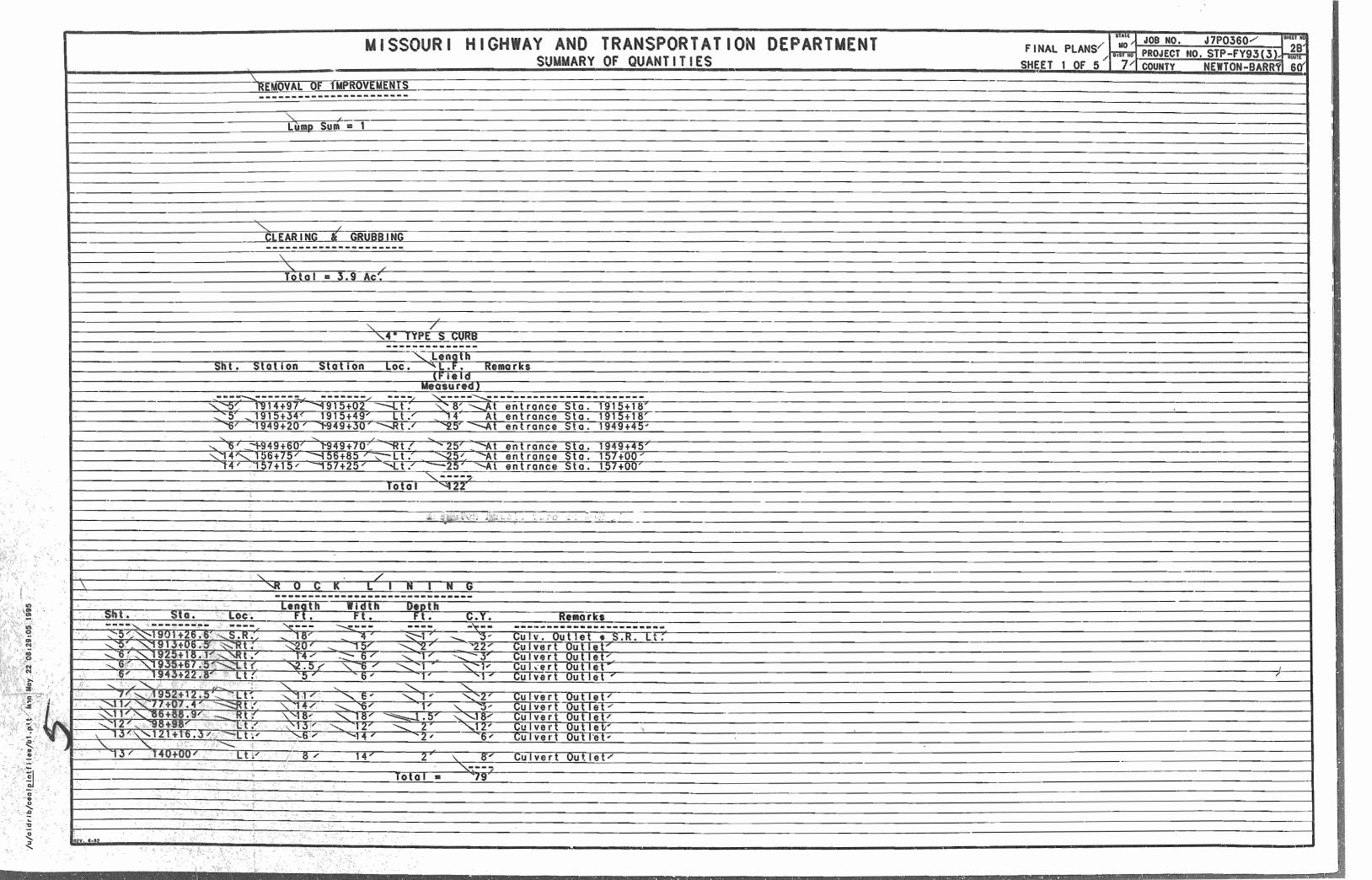
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DESCRIPTION

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ITEM	DESCRIPTION	UNIT	QUANTITY
201-10.00	CLEARING	ACRE	3.9
201-20.00	GRUBBING	vcse	3.9
202-20.10	REMOVAL OF IMPROVEMENTS	FOK5 EOM	1/
203-10.00	CLASS A EXCAVATION (1)	CO AD	74,684
203-60.00	COMPACTING EMBANEMENT	са хв	38,593
203-70.75	COMPACTING IN CUT	STATION	928.5
205-10.00	OVERHAUL (STATION)	STA YD	16,694
206-30.00	CLASS 3 EXCAVATION	CO AD	71,049
301-10.11	ASPHALT CEMENT (BITUMINOUS BASE)	TON	2,888.9
301-20.00	MINERAL AGGREGATE (BITUMINOUS BASE)	ŤON .	\$6,068
304-00.43	TYPE 1 AGGREGATE FOR BASE (4 IN. TEICK)	SQ YD	101,940
310-50.01	CRUSHED STONE (B)	CO_AD	189
390-90.00	TEMPORARY SURFACING	CU YD	278
403-10.11	ASPEALT CEMENT (ASPEALTIC CONCRETE)	TON	684.8
403-10.26	AC-20 MINERAL AGGREGATE (ASPHALTIC CONCRETE)	TON	13,886
403-90.80	STUMINOUS RUMBLE STRIP	100 FT	× 626
407-10.05	PACK COAT	GALLON	
. 408-20.10	PRIME-LIQUID ASPEALT MC 30	GALLON	1,660
601-10.00	FIELD LABORATORIES	LUMP SUK	V1/
-604-40.13	PIPE COLLAR, TYPE C	EACE	19
609-10.10	CONCRETE CURB (6 IN. HEIGHT AND UNDER) TYPE S	LIN FT	
.609-10.60	PAVED DITCE	SQ YD	122
609-60-20	TYPE 2 ROCK DITCH LINER	CO AD	V 33
609-70.00	NOCK LIMING	CU YD	W ₇₉
611-70.20	EROSION CONTROL GEOTENTILE		
632-90-10		SQ YD	0796
612-90.20	IRSTALLING GIVE EN A BRAKE 4 PT. I S JT. SIGN	EACH	
	INSTALLING GIVE EM A ERAKE 4 FT. I 4 FT. SIGN	EACH	2
616-10.05	CONSTRUCTION SIGNS	SQ FT	1,245
616-10.10	PRECENTED SIGNS	SÒ FT	<b>*</b> 0/
-616-10.46	AFFE II OBJECT MARKER	EACE	10/
618-10.00	MORILIEATION	LUMP GOM	1
- 619-10.00	PAVEMENT EDGE TREATMENT	LIN FT	31,663
620-54.04	PREFORMED SHORT TERM MARKING TAPE 4 IN., INTERMITTENT VELLOW	WILE	V ₆
620-55.03	TESEMUSIASTIC HARRING MATERIAL 4 IN., SOLID TELLOW	100 FT	340.1
620-55.04	TERMOPLASTIC MARRING MATERIAL 4 IN., INTERMITTENT YELLOW	100 PT	61.5
703-20.01	CLASS A CONCRETE (CULVERTS)	CO AD	333.4
706-10.30	REINFORCING STEEL (CULVERTS)	POENID	10,170

FINAL PLANS MO JOS NO. J7P03GD /
DIST NO. PROJECT NO. STP-FY93(3) /
7 COUNTY Newton-Barry :

5	sheet 1 of 1/	7/ cou	MTV Newton	-Barry	- 601
ITEM	DESCRIPTION		/ UNIT	CUANTITY	
725-03.15	15 IM. PIPE CULVERT GROUP B		LIN FT	379	
. 725-03.18	18 IN. PIPE CULVERT GROUP B		LÎN FT	987	
725-03.24	24 IN, PIPE CULVERT GROUP B		LIH FT	144	
725-20.05	CORRUGATED METALLIC-COATED STEEL PIPE-ARTYPE B-5	CE	LIN FT	64	
726-13.24	24 IN. CLASS III REINFORCED CONCRETE PIP CULVERT	E	LIN FT	W166	
726-13.30	30 IN. CLASS III REINFORCED CONCRETE PIP CULVERT	E	LIN FT	116	,
726-13.35	36 IN, CLASS III REINFORCED CONCRETE PIP CULVERT	E	LIN FT	103	
732-00.36	36 IN. FLARED END SECTION		EACH	M	
732-10.16	24 IN. SAFETY SLOPE END SECTION	,	EACH	19	
732-10.17	30 IN. SAFETY SLOPE END SECTION		BACH	X	
732-10.18	36 IM. SAFETY SLOPE END SECTION		EACH	5	
802-50.00	TYPE . 3 MULCH	CHANGE CONTRACTOR OF THE STREET	ACRE	W61.0	
805-10.00	SEEDING		ACRE	X ₀ /	
805-20.00	HATIVE PLANT SEEDING		ACRE	6	
806-10.16	TEMPORARY BERMS (TYPE B)		LIN PT	10/	
806-10.11	SLOPE DRAINS		LIN PT	X.	
806-10.13	STRAW BALE DITCH CHECK		EACH	237	
806-10.14	SILT FENCE DITCH CHECK		EACH	331	
806-10.15	SEDIMENT BASIN		CO AD	10/	
806-10.16	SEDIMENT REMOVAL		cữ 10	32	
806-10.17	TEMPORARY SEEDING AND KULCHING		ACRE	V.	. •
806-10-18	STRAN BALES (FENCE)		LIN FT	5,174	
CONT. 501.01	SEED		ACRE	27.2	
CONT. 501.02	NATIVE PLANT SEEDING		ACRE	X _{13.8} /	
CONT. 501.03	FILL WELL		LUMP SUM	1/	
CONT. 501,04	ADJUST ENTRANCES		LUMP SUM	1/1	
CONT	PVMT STRIPE REMOVAL		100 FT.	7.1	
CONT. /	CHANNELIZERS		EACH /	10	
CONT. 501.07	ASPHALT DENSITY SAMPLES		EACH /	34-	
_ (0)	INCLUDES 2961 CY YDS, FOR ROUNDS	NG.	,		PARRY
					¥a:
	ACCEPTED: April 19, 1995				_
		pley	Dute.	5-31-95	NEWTON
	PREPARED BY: Michael D. C. RESIDENT ENGINEER; Some STY DIST. OFFICE: Law Lawry MAIN OFFICE: Mark & Bush	)iller	DATE	5/31/95	
	DIST. OFFICE: Low Lowery		DATE	8/22/95	!
	MAIN OFFICE: Mark A. Onder	201-	DATE	11-20-95	8



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SUMMARY OF QUANTITIES

0-25\$ REV FEB 26, 1992 FINAL PLANS

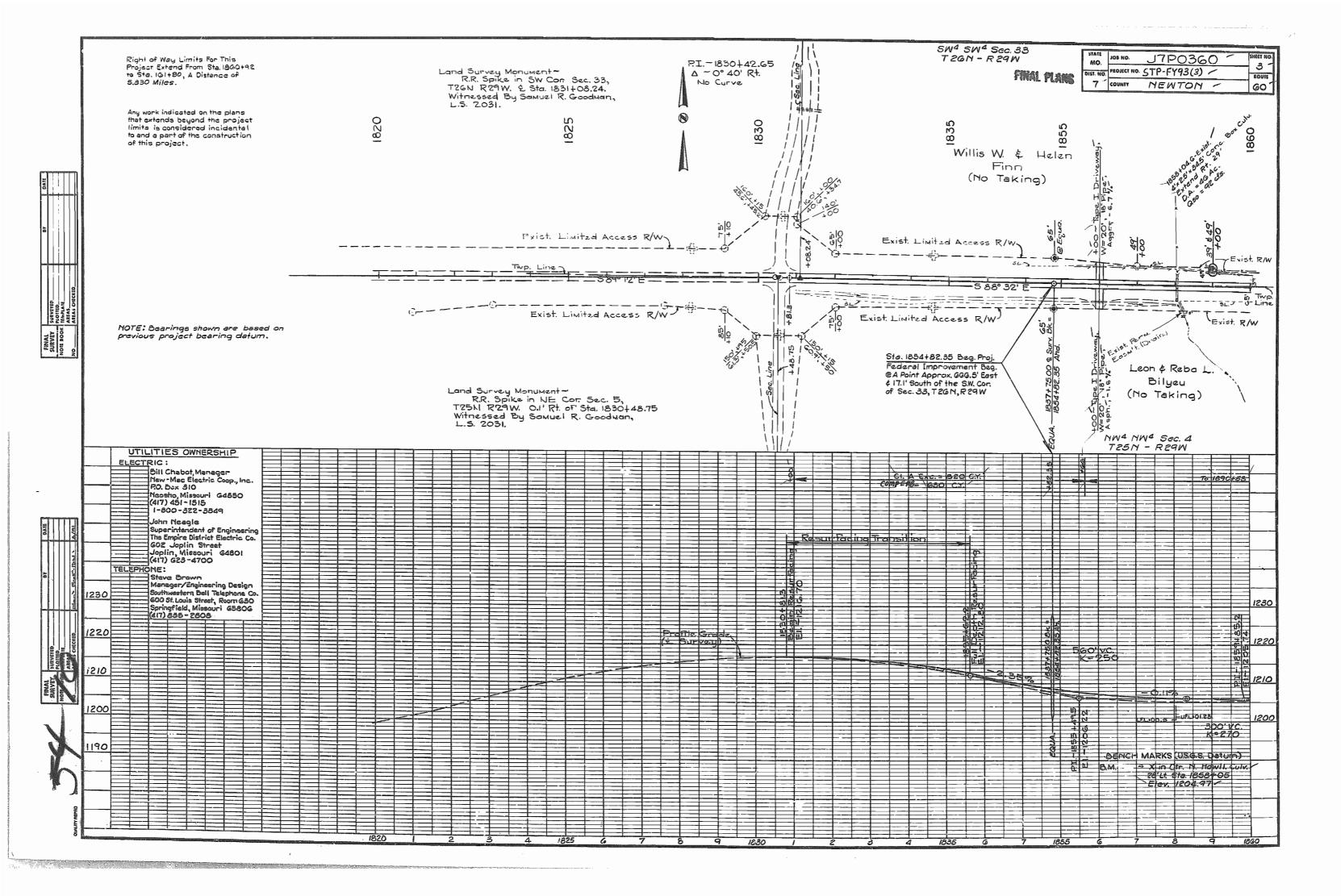
STATE	J08 NO.	J7P0360 /		SHEET NO.
DIST NO.	PROJECT N	10. STP-FY93(3) /		ROUTE
7 ′	COUNTY	NEWTON-BARRY	/	60

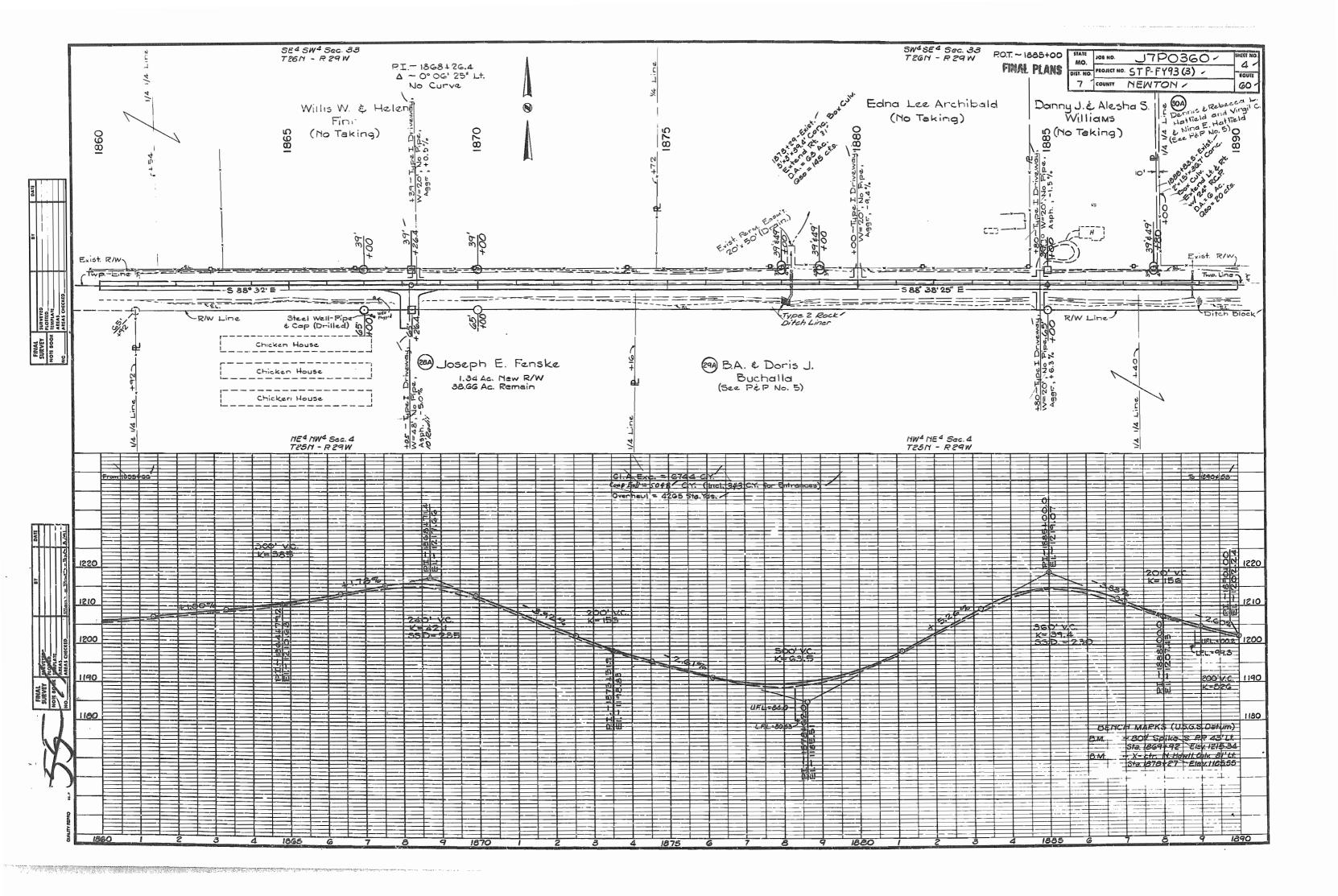
SHEET 5 OF 5

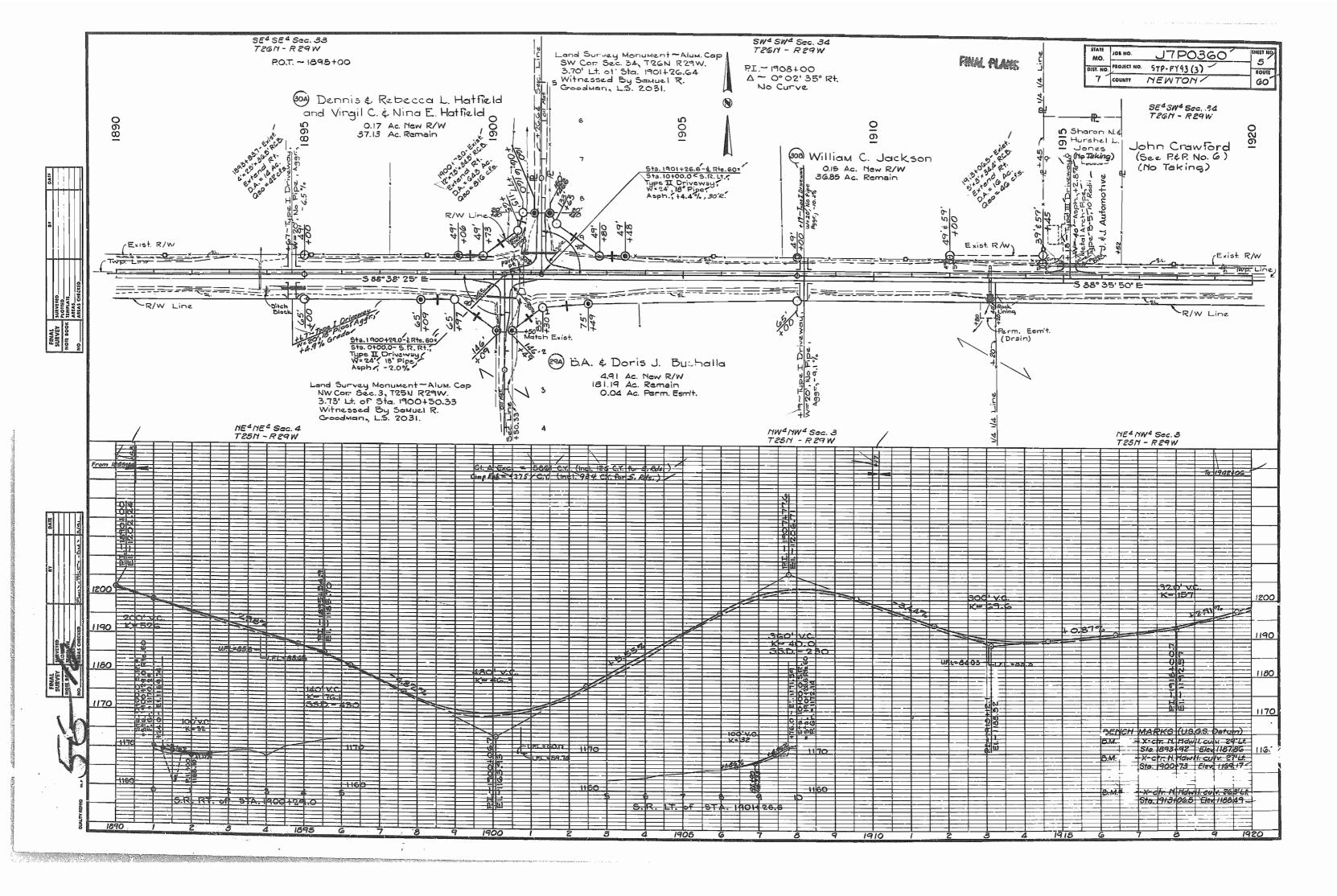
NUMBER	(INS)	TOTAL QTY	DESCRIPTION
616-10.20	36X18		CHANNELIZER (DRUM)
616-10.35	8X24		TYPE I BARRICADE (ONE RAIL)
616-10.36	8X24		TYPE II BARRICADE (TWO RAILS)
616-10.40	48X96		FLASHING ARROW PANEL
616-10.45	18X18	`\	TYPE I OBJECT MARKER
616-10.461	6X12	10	TYPE II OBJECT MARKER
616-10.47	8X24		TYPE III OBJECT MARKER
616-10.50	8		FLASHING ELECTRIC LIGHT
616-10.51			WARNING LIGHT TYPE A
616-10.52		_	WARNING LIGHT TYPE B
616-10.53			WARNING LIGHT TYPE C
616-10.54			STROBE LIGHT
616-10.60		\	RAISED PAVEMENT MARKER
616-10.70	28		FLEXIBLE DELINEATOR
619-10.00	LIN FT	3)663	PAVEMENT EDGE TREATMENT
612-10.30	72X144		MOVEABLE BARRICADE (THREE RAILS)
612-90.10	\	4 /	INSTALLING GIVE EM A BRAKE
			4'X 8' SIGNS
612-90.20		2 /	INSTALLING GIVE EM A BRAKE
			4'X 4' SIGNS

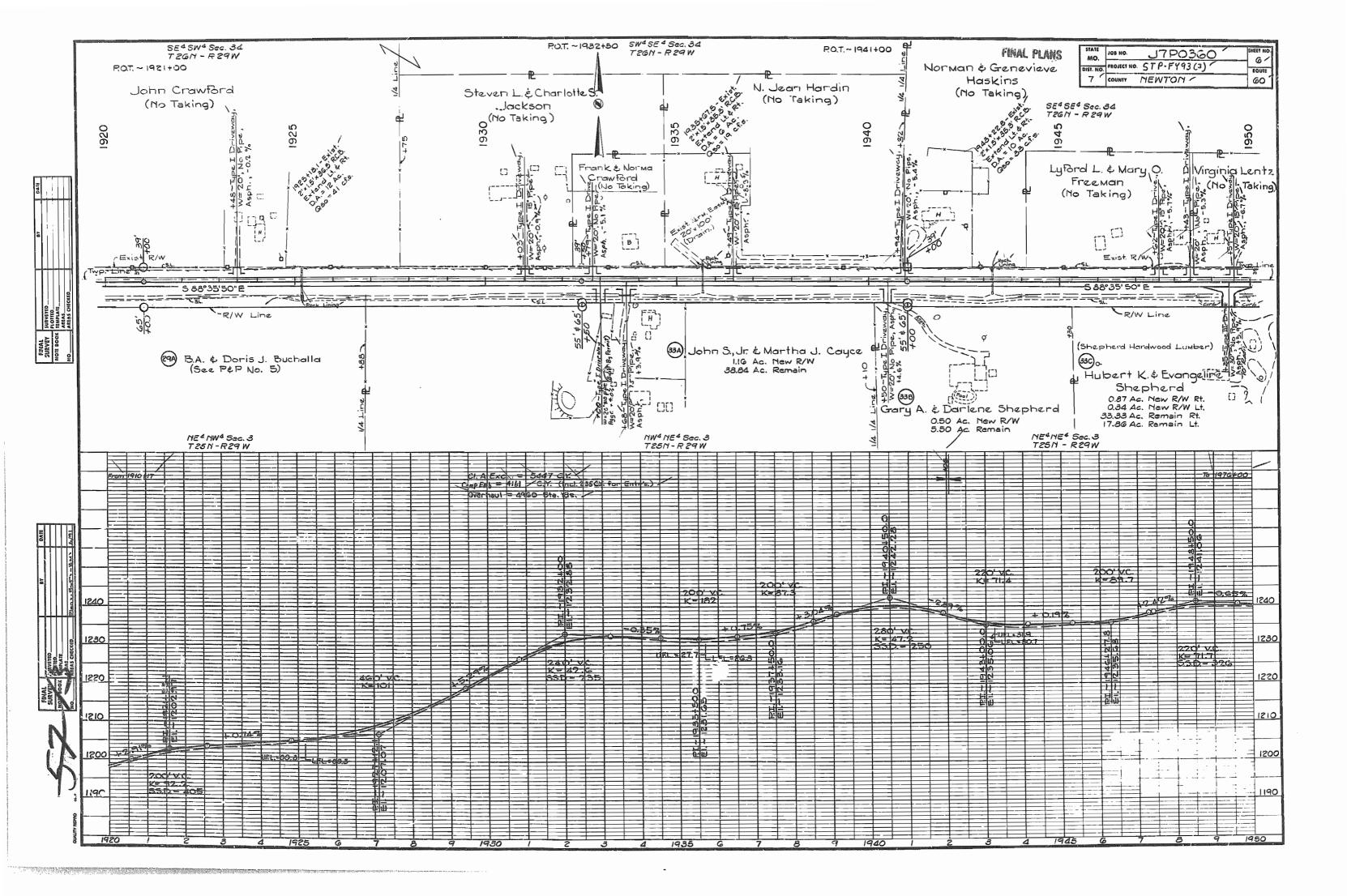
W01-1Lb	61
W01-1Lb	
W01-1Rb	NTER Plate 61
WO1-2Lb	NTER Plate 61
WO1-2Rb	L) (1 L/140C)
WO1-3Lb         48X48         16.0         REVERSE TURN (SYMBOL LEFT ARROW)         REJURY         REVERSE TURN (SYMBOL RIGHT ARROW)         REVERSE TURN (SYMBOL RIGHT ARROW)         REVERSE TURN (SYMBOL RIGHT ARROW)         REVERSE CURVE (SYMBOL LEFT ARROW)         REVERSE CURVE (SYMBOL LEFT ARROW)         REVERSE CURVE (SYMBOL RIGHT ARROW)         REVERSE CURVE (SYMBOL RIGHT ARROWS)         REVERSE CURVE (SYMBOL RIGHT ARROWS)         REVERSE CURVE (SYMBOL RIGHT ARROW)         REVERSE CURVE (SYMBOL RIGHT ARROWS)         REVERSE CURVE (SYMBOL RIGHT ARROWS)<	61
WO1-4Lb         48X48         16.0         REVERSE CURVE (SYMBOL LEFT ARROW)         R1-2a         48X48X48         6.93         YIELD           WO1-4Lb2         48X48         16.0         DOUBLE ARROW REVERSE CURVE (SYM LT ARROWS)         R1-3         20X9         1.25         4-WAY (F           WO1-4Rb         48X48         16.0         REVERSE CURVE (SYMBOL RIGHT ARROW)         R1-5         20X9         1.25         3-WAY (F           WO1-4Rb2         48X48         16.0         DOUBLE ARROW REVERSE CURVE (SYM RT ARROWS)         R2-1b         36X48         12.00         16 X         192 X         SPEED L           WO1-6         48X24         8.0         HORIZONTAL ARROW (SYMBOL)         R2-5         36X48         12.00         4 X         48 X         REDUCED           WO1-6a         72X36         18.0         HORIZONTAL ARROW (SYMBOL)         R3-1b         36X36         9.00         NO RIGHT	1 61
WO1-4Lb2	61
WGT-4Rb	61 PLAQUE)
WC) - 4Rb2     48X48     16.0     DOUBLE ARROW REVERSE CURVE (SYM RT ARROWS)     R2-1b     36X48     12.00     16 × 192     SPEED L       WO1-6     48X24     8.0     HORIZONTAL ARROW (SYMBOL)     R2-5     36X48     12.00     4 / 48 /     REDUCED       WO1-6a     72X36     18.0     HORIZONTAL ARROW (SYMBOL)     R3-1b     36X36     9.00     NO RIGHT	, E140E/
W01-6     48X24     8.0     HORIZONTAL ARROW (SYMBOL)     R2-5     36X48     12.00     4 / 48 /     REDUCED       W01-6a     72X36     18.0     HORIZONTAL ARROW (SYMBOL)     R3-1b     36X36     9.00     NO RIGHT	- Engoly
WO1-6a 72X36 18.0 HORIZONTAL ARROW (SYMBOL) R3-1b 36X36 9.00 NO RIGHT	SPEED AHEAD 61
W01-7 48X24 8.0   DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)   R3-2b 36X36 9.00   NO IFFT	T TURN (SYMBOL) 61
	TURN (SYMBOL) 61
WO1-7a 72X36 18.0 DOUBLE HEAD HORIZONTAL ARROW (SYMBOL) R3-3a 36X36 9.00 NO TURNS	
	KN (SIMBOL)
	NE MUST TURN LEFT  ANE MUST TURN RIGHT
W03-3b 48X48 16.0   SIGNAL AHEAD (SYMBOL)   R4-1b 36X48 12.00   DC NOT F	
WO3-4b 48X4 16.0 BE PREPARED TO STOP R4-2b 36X48 12.00 PASS WIT	
	FT (HORIZONTAL ARROW)
	GHT (HORIZONTAL ARROW)
W05-1a     48X48     16.0     R0AD NARROWS     R4-17La     36X36     9.00     KEEP LET       W05-3a     48X48     16.0     ONE LANE BRIDGE     R4-17Ra     36X36     9.00     KEEP RIG	
WO53g 48X48 16.0   ONE LANE BRIDGE   R4-17Rg 36X36 9.00   KEEP RIC WO6-1b 48X48 16.0   DIVIDED HIGHWAY   R5-1 30X30 6.25   DO NOT R	
WO62b 48X48 16.0   DIVIDED HIGHWAY ENDS   R5-1a 36X24 6.00   WRONG W/	
W06-3b 48X48 16.0 TWO WAY TRAFFIC (SYMBOL) R6-1La 48X*8 6.00 ONE WAY	ARROW (LEFT)
	ARROW (RIGHT)
WOB-1b 48X48 16.0 BUMP R6-2L0 24X30 5.00 ONE WAY	
WAS IN LANGE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY O	(RIGHT)
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W08-6b 48X48 16.0 TRUCK CROSSING R12-3b 36X36 9.00 TO ONCO	MING TRAFF!C (PLAQUE)
WO8-6c 48X48 16.0 TRUCK ENT (INCLUDES WO25-10 PLATE) S4-40 36X18 4.50 WHEN FLA	ASHING
W08-70 36X36 9.0 LOOSE GRAVEL W08-9 48X48 16.0 LOW SHOULDER GUIDE SIGNS	
LOW SHOULDER	WATERIOT ION MENT WAY
WAR OR LOVE TO THE MENT (STATE OF THE STATE	INSTRUCTION NEXT XX MILES
WOO 10 4949 10 A	(PLAQUE)
W09-2Ra 48X48 16.0 LANE ENDS MERGE RIGHT (INCLUDES W025-3b PLATE) M04-9L 48X36 12.00 DETOUR	(LEFT ARROW)
	(RIGHT ARROW)
W010 0a 40V40 40 0	(ARROW LEFT)
W000 0   20440   7.0.	(ARROW RIGHT)
WOOD 7- L JAANGE CLO S.OU DETOUR	LEFT TURN ARROW
W013-1a 24X24 4.0 ADVISORY SPEED (PLAQUE) M5-1R 21X15 2.19 ADVANCE	RIGHT TURN ARROW
W020-1 48X48 16.0 19 304 ROAD CONST AHEAD (INCLUDES W025-6 PLATE)	
W020-2 48X48 16.0 DETOUR AHEAD (INCLUDES W025-16 PLATE) W020-3 48X48 16.0 DETOUR AHEAD (INCLUDES W025-16 PLATE) W020-3 48X48 16.0 ROAD CLOSED AHEAD (INCLUDES W025-16 PLATE)	GNS
WOOD 4- ADVAN 100 - (NOTE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF T	
#020-40 48.446 16.0 5 180 ONE LANE ROAD AHEAD (INCLUDES W025-10 PLATE)  W020-5 48X48 16.0 RIGHT LANE CLOSED AHEAD (INCL W025-3d PLATE)	
WO20-6d 48X48 16.0 RIGHT LANE CLOSED (INCLUDES WO25-3c PLATE)	
W020-7b 48X48 16.0 5 80 FLAGGER (SYMBOL)	
W020-7x 24X18 3.0 500 FT/1000 FT (PLAQUE)	
W020-9c 48X48 16.0 15' 240' 0' 0' OPEN TRENCH W021-2b 48X48 16.0 FRESH OU	
WOOD EL ARVAR ACO NOTATION OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF T	
WO21-7 36X36 9.0 SAND BLASTING	
W022-1 48X48 16.0   BLASTING ZONE 1000 FT	
W022-2 42X36 10.5 TURN OFF 2-WAY RADIO	
W022-3 42X36 10.5 END BLASTING ZONE	
W022-5 30X30 6.3 22 39 NO PASSING ZONES UNMARKED 616-10.05	
TOO 17/300 FF FIGURE	
WG25-1c 34X9 GG0-17/1000-17-10te GT0-10.10	
S00 F1/1000 FT Plate RELOCATED SIGNS TOTAL	

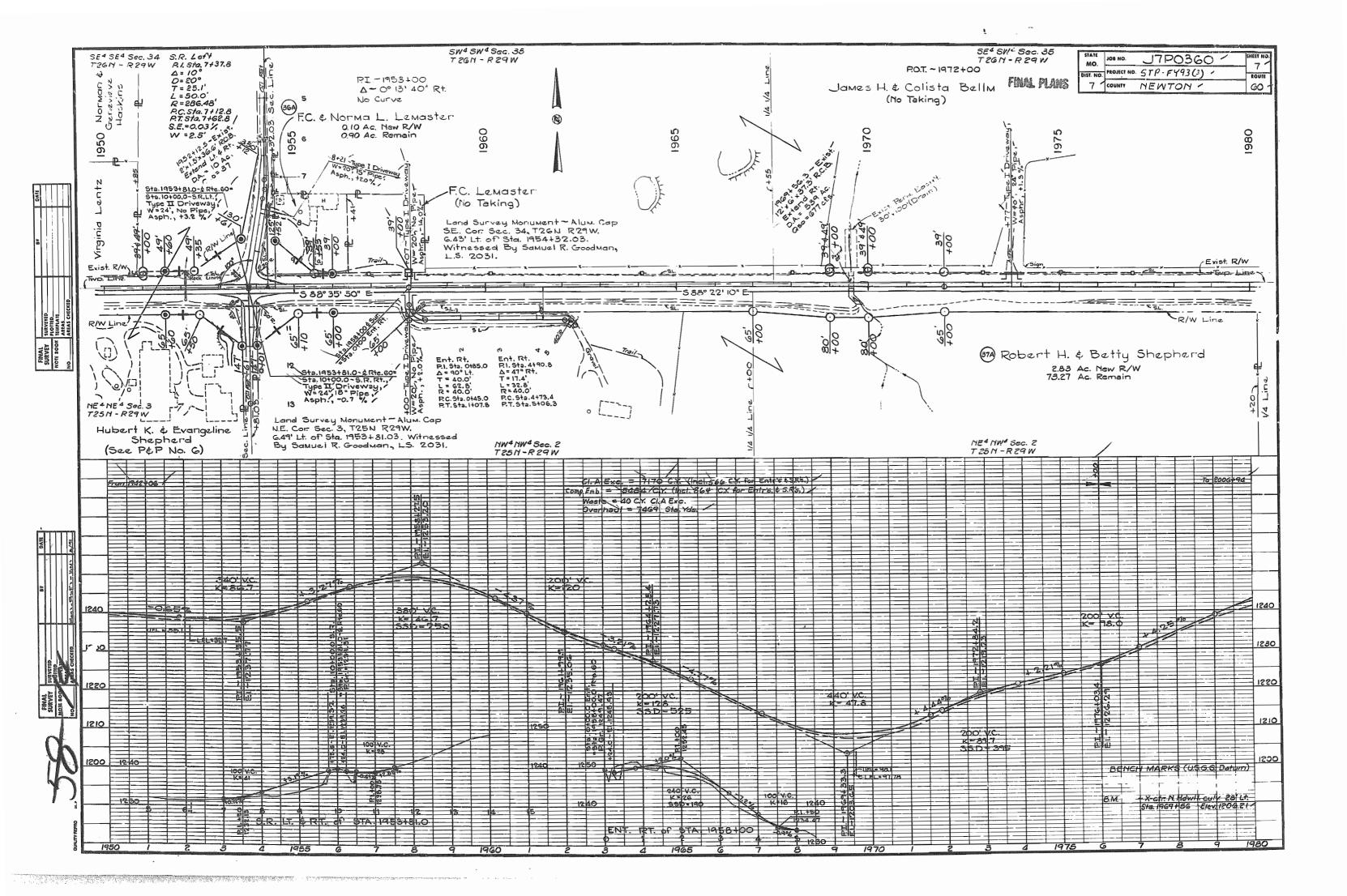


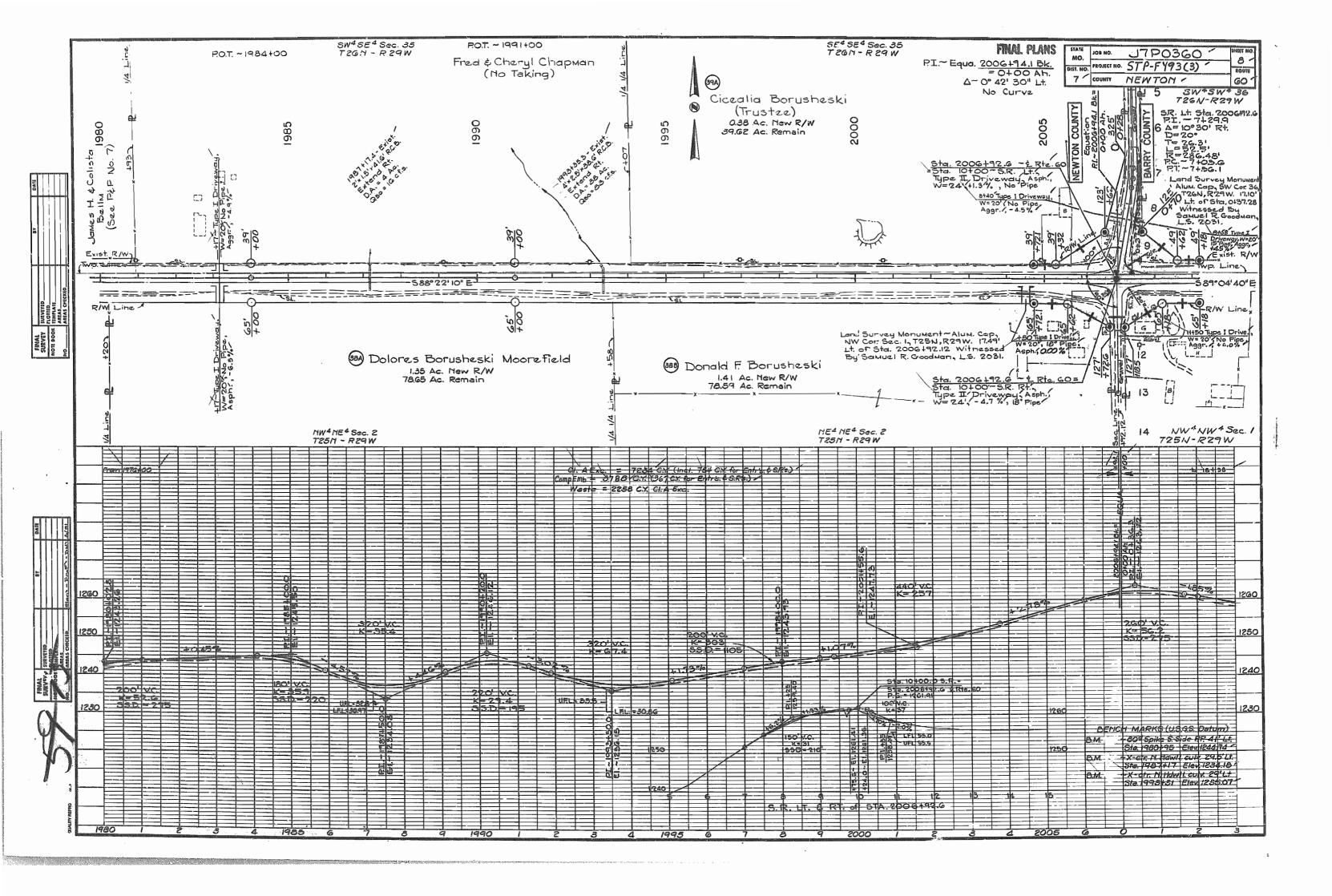


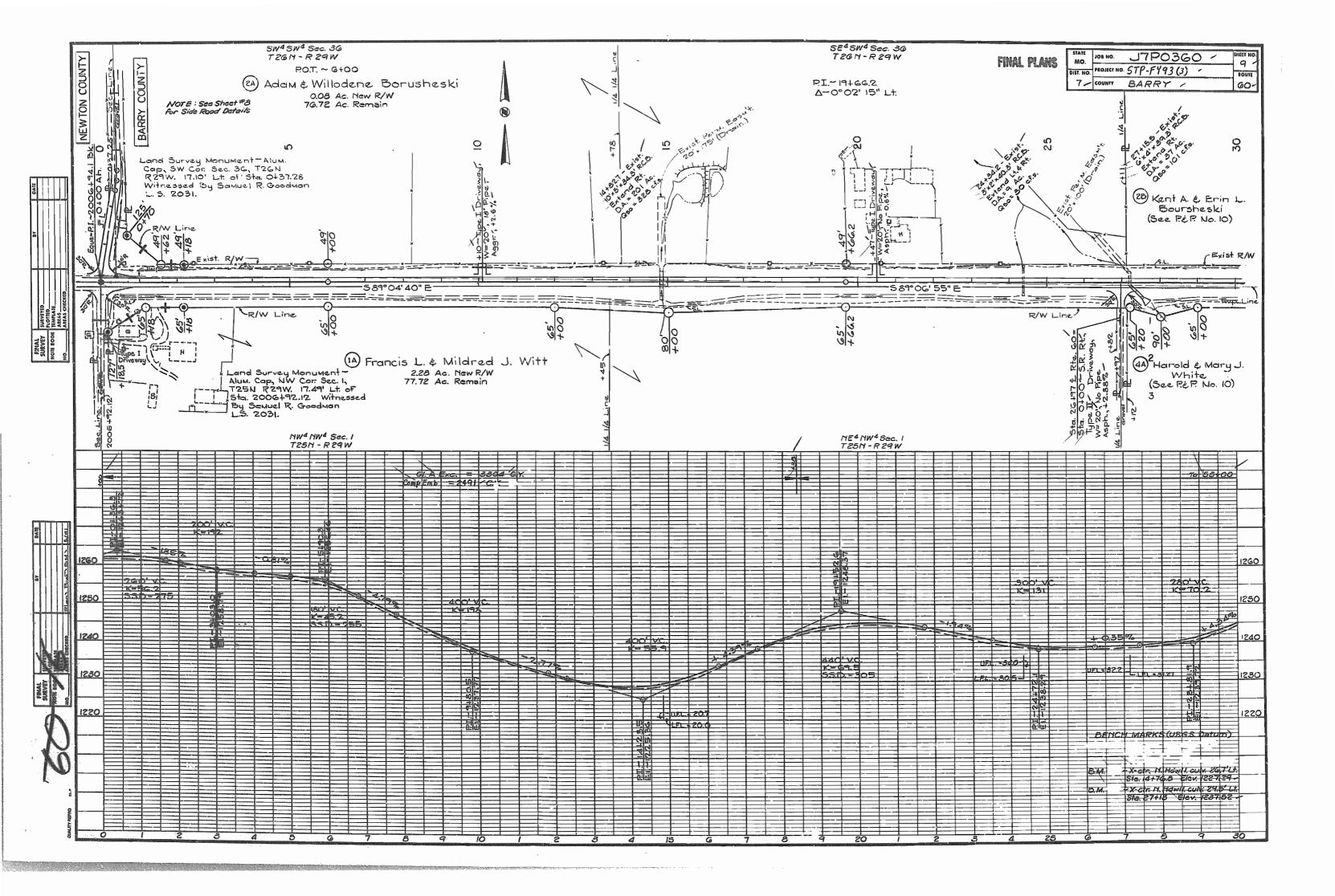


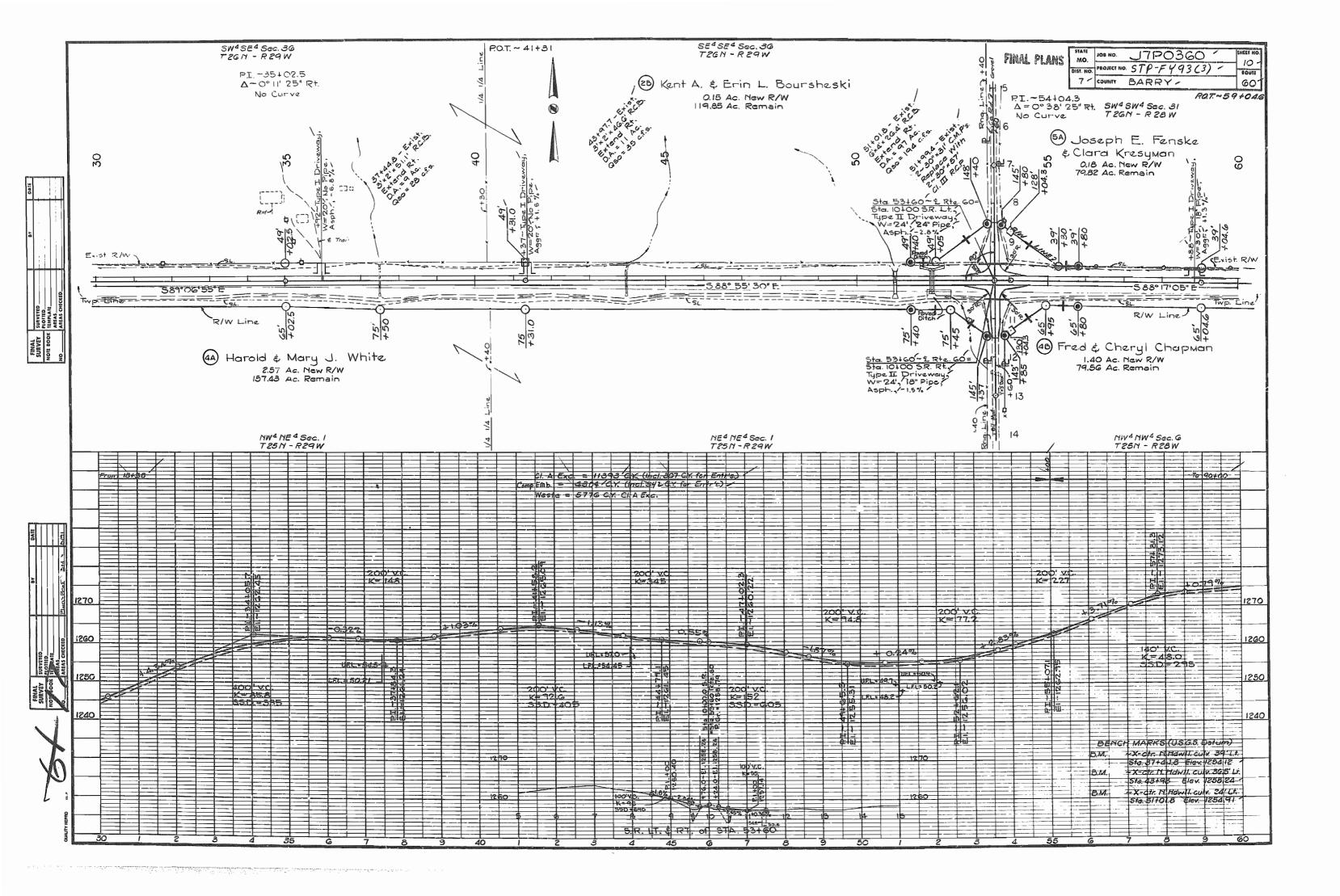


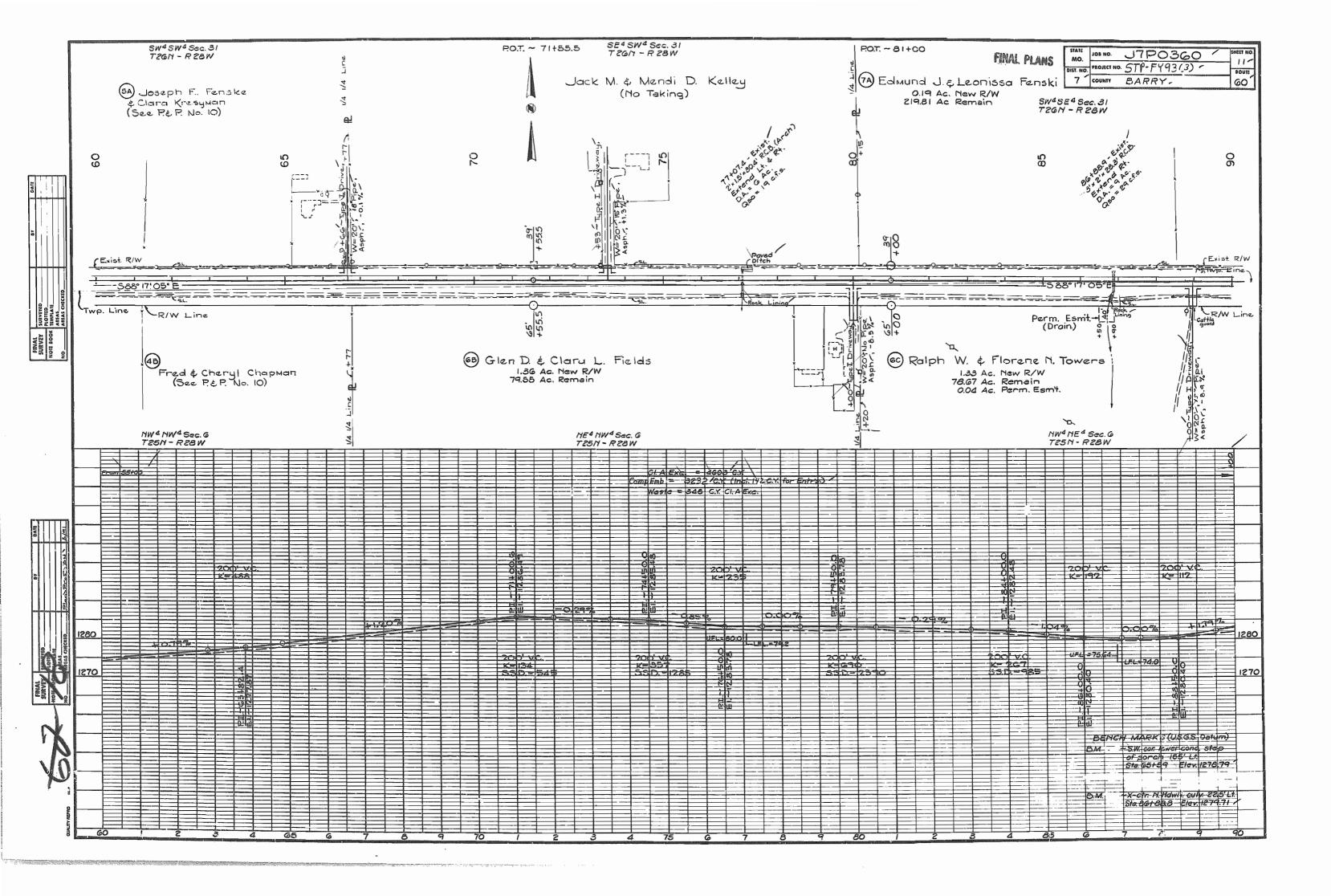


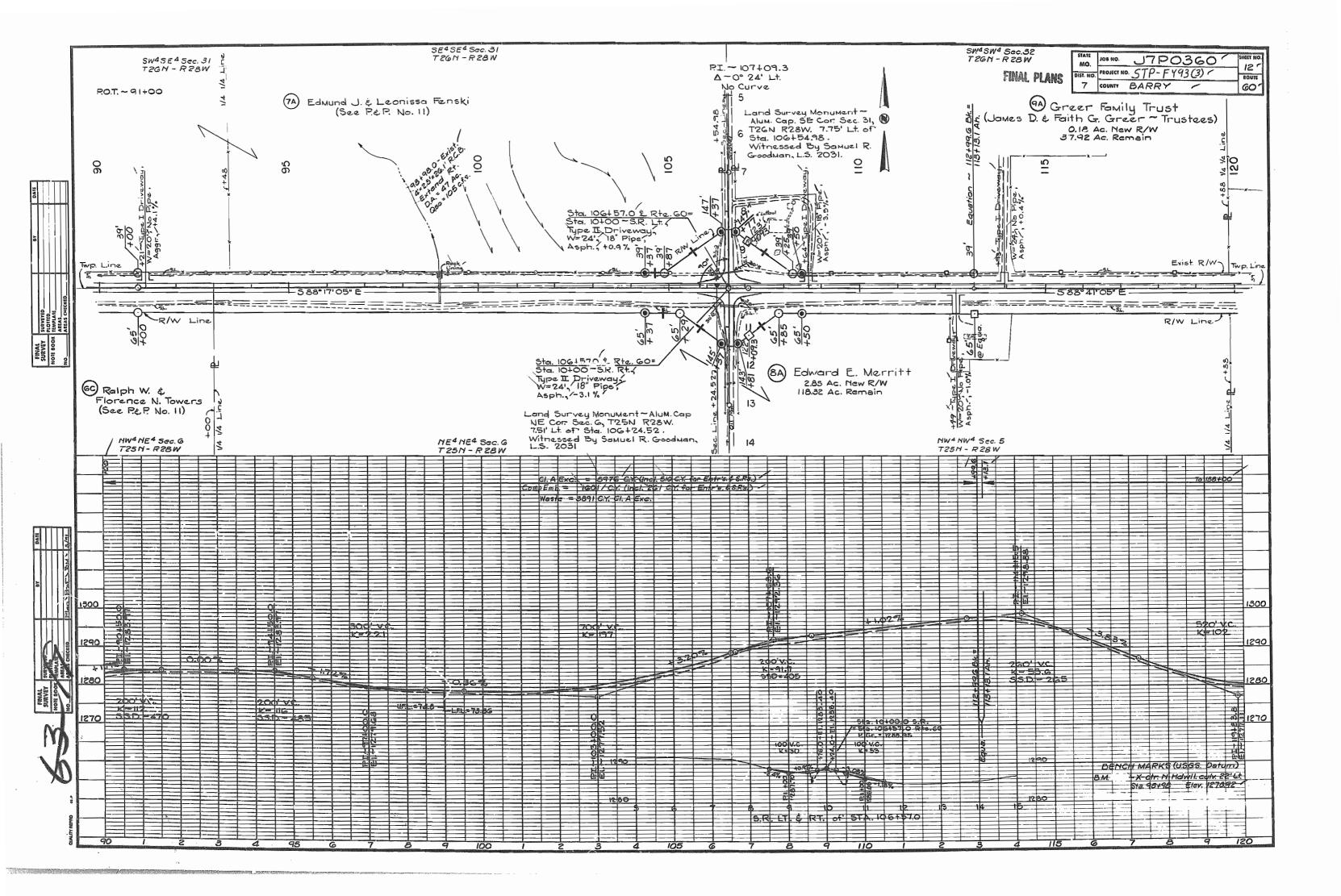


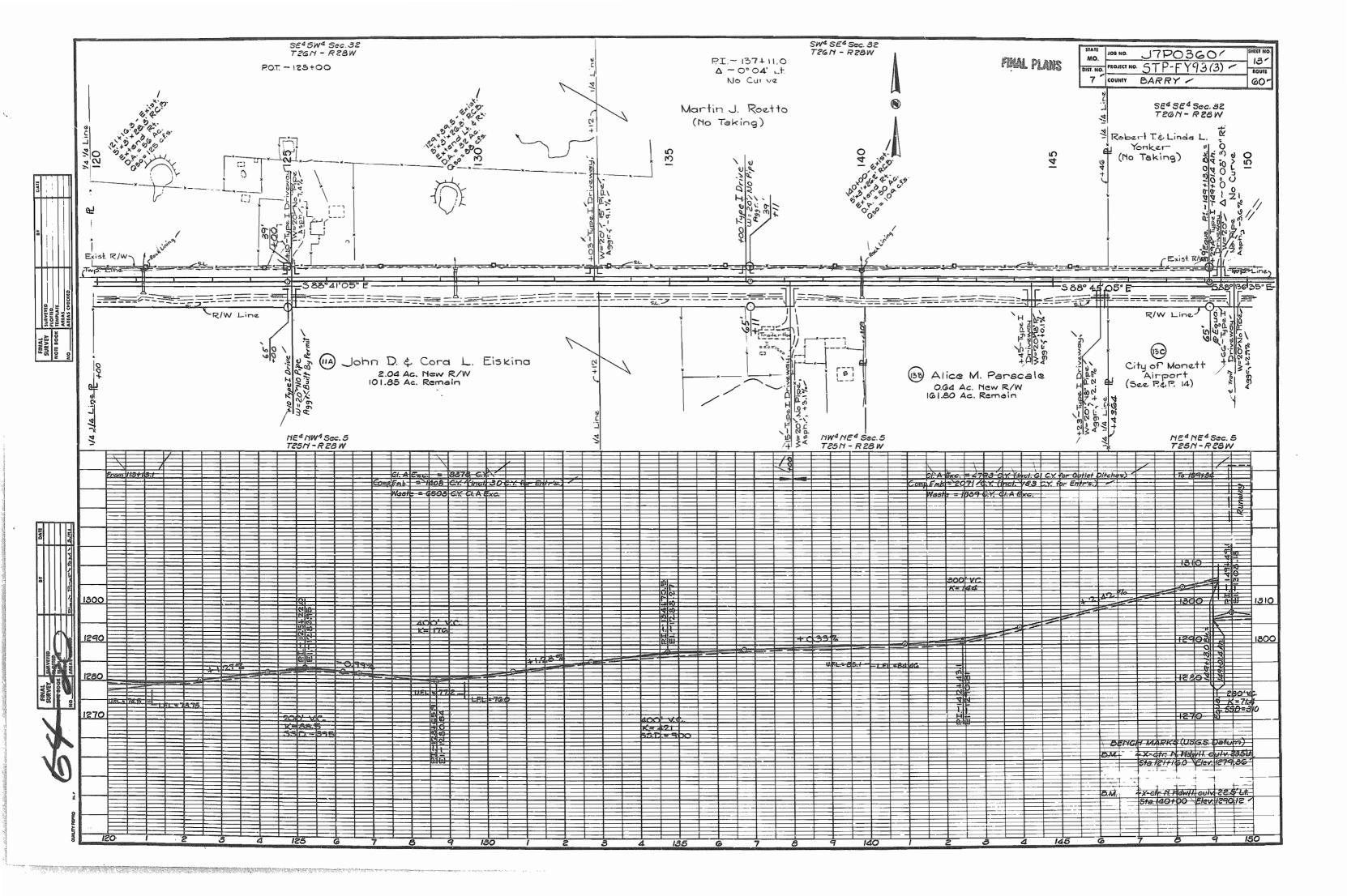


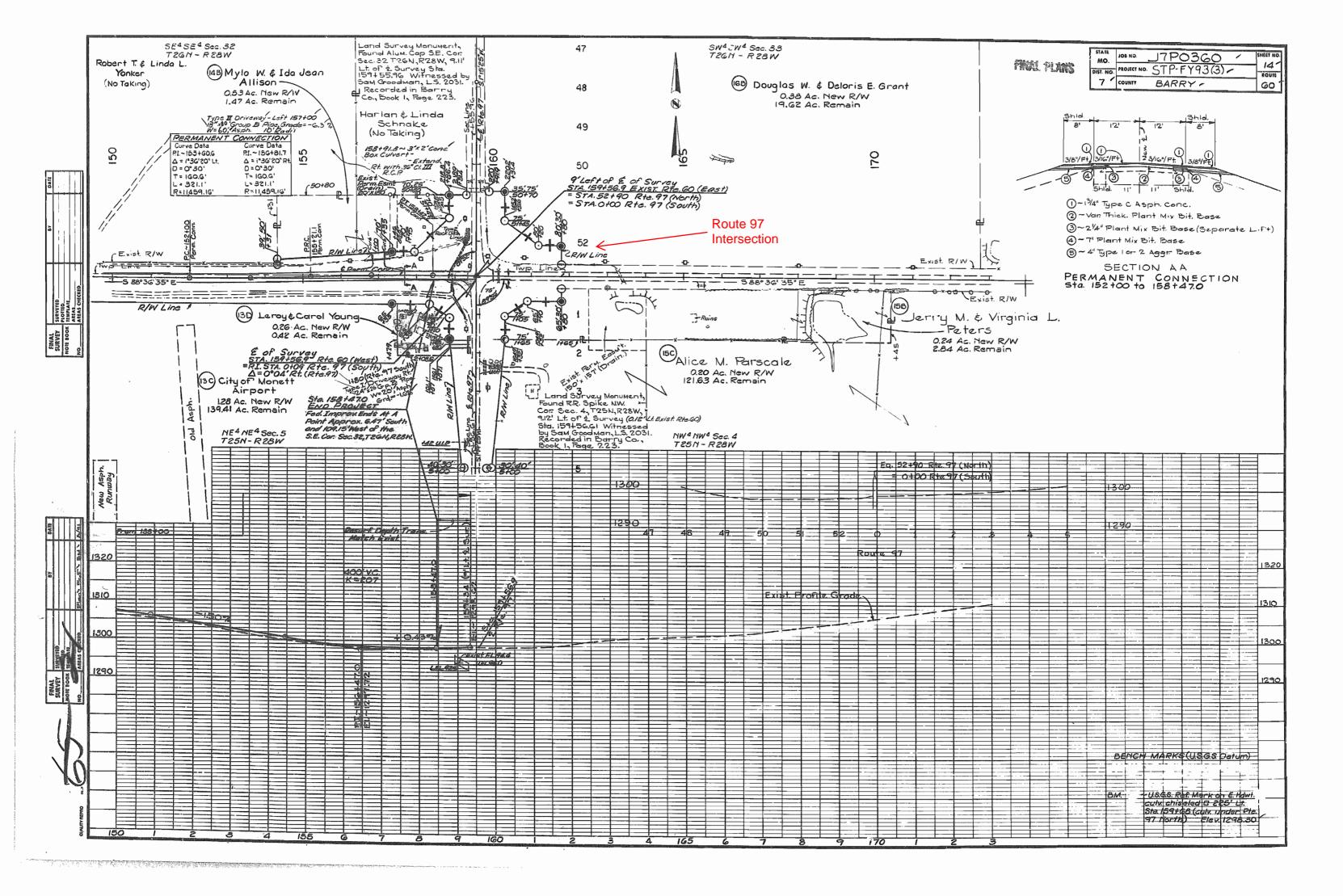


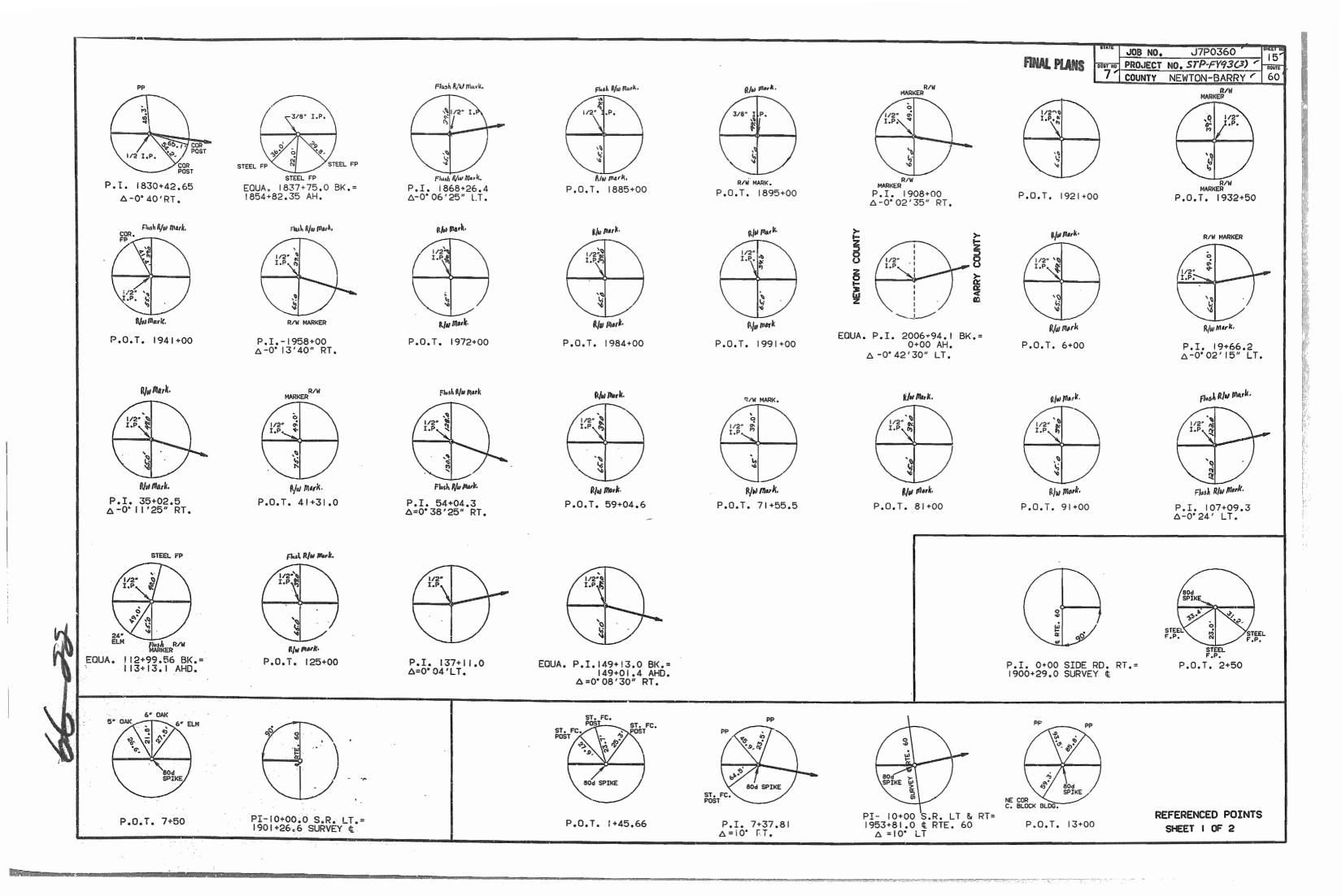


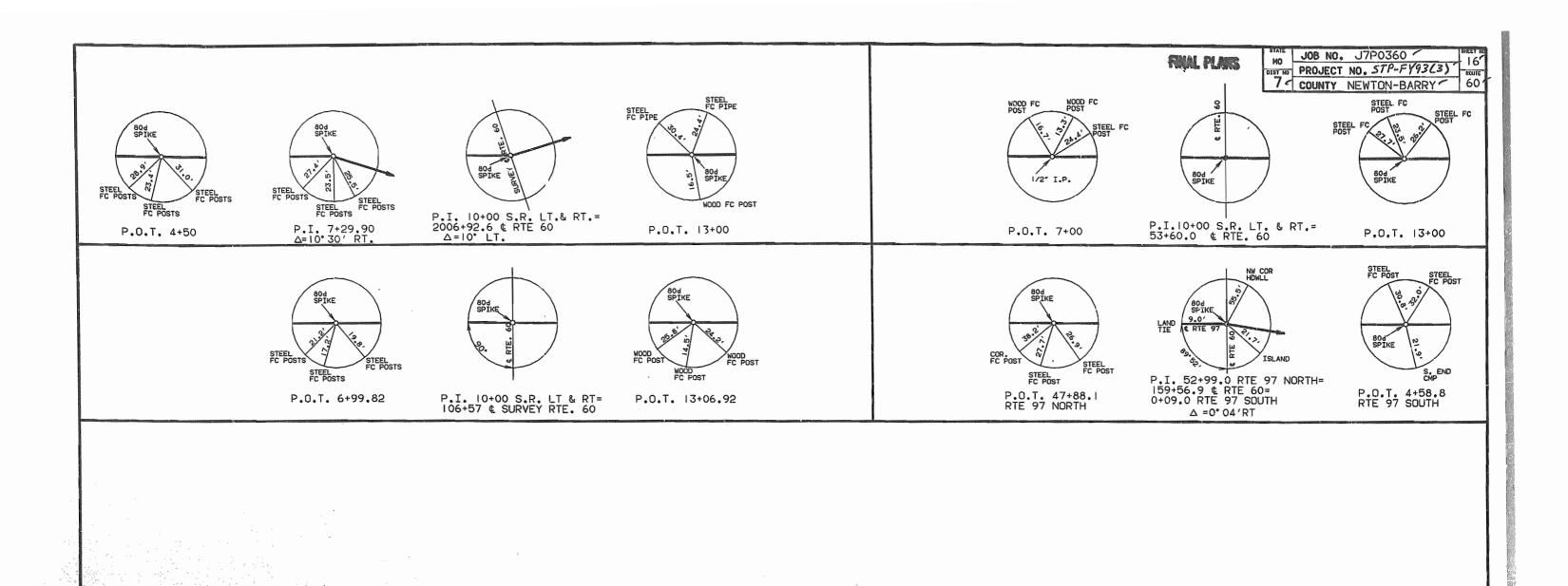


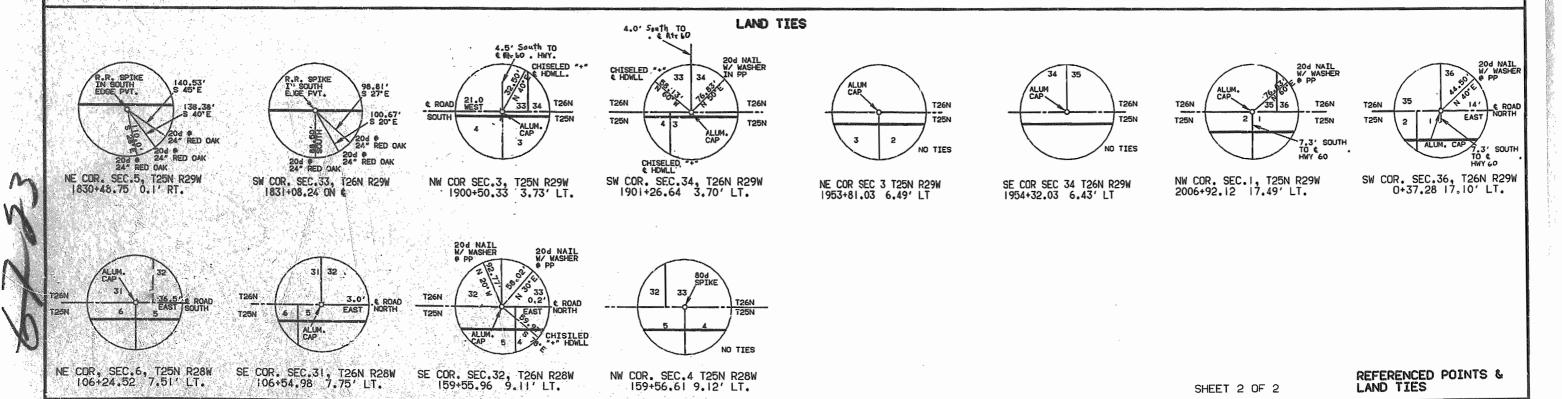


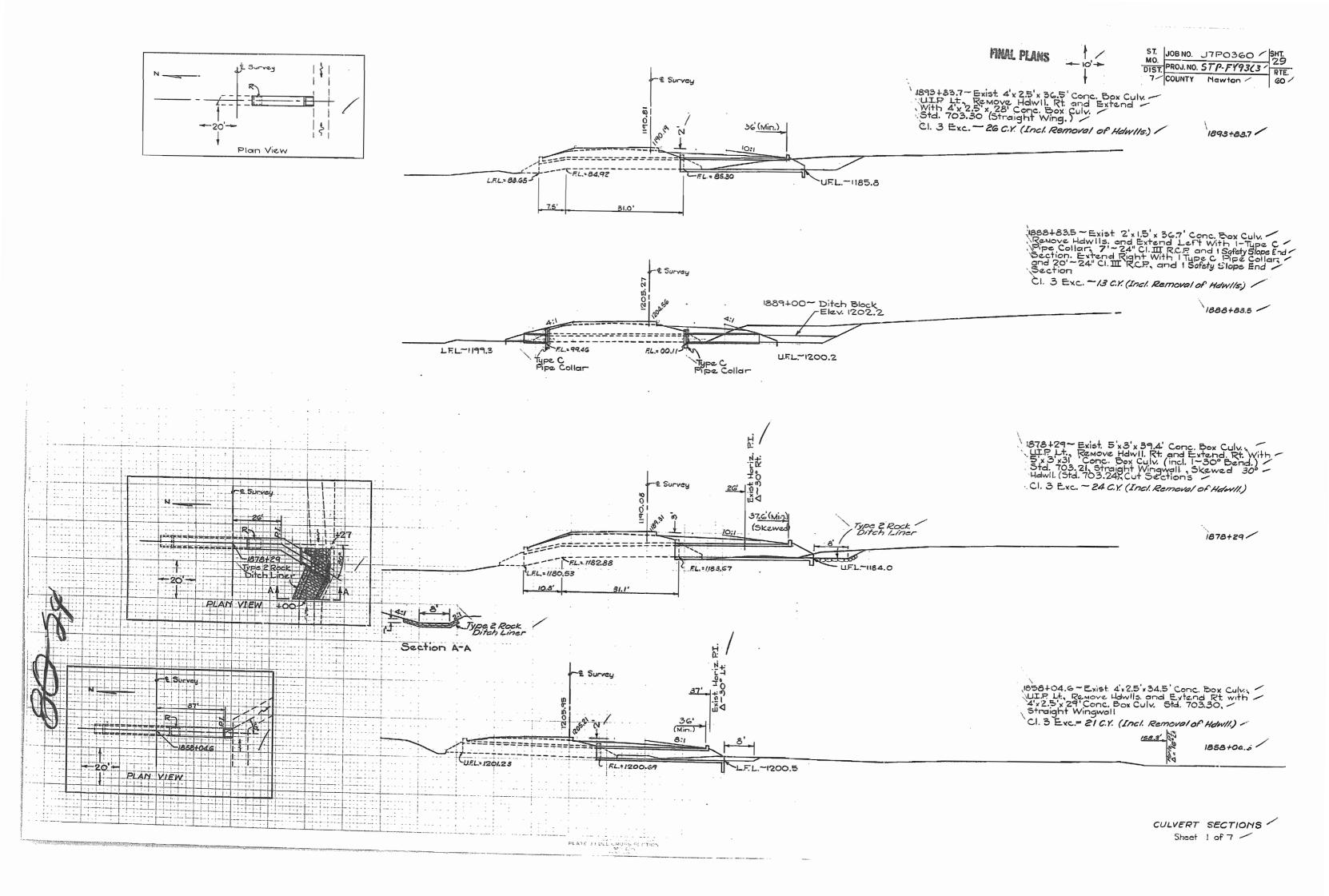


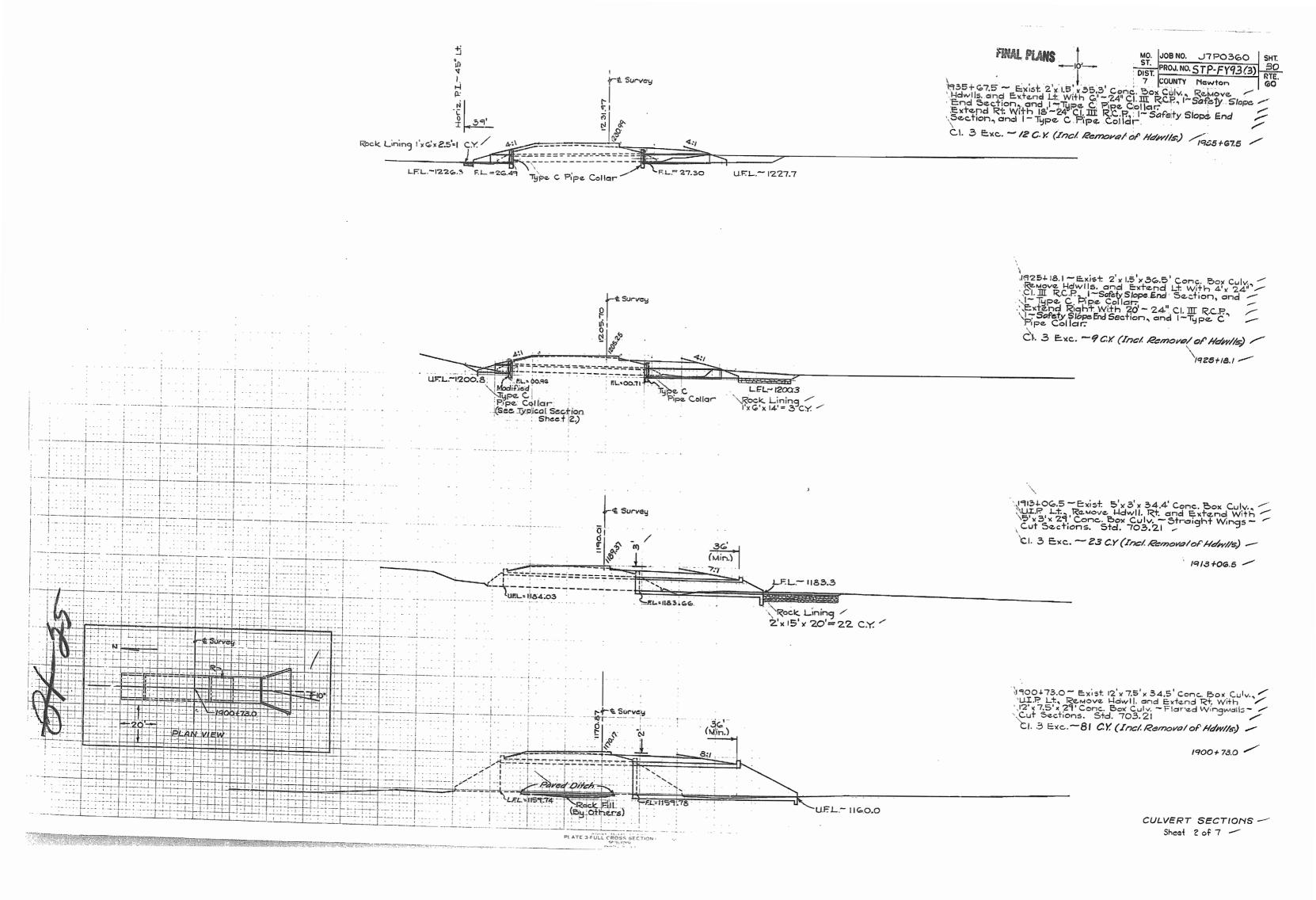


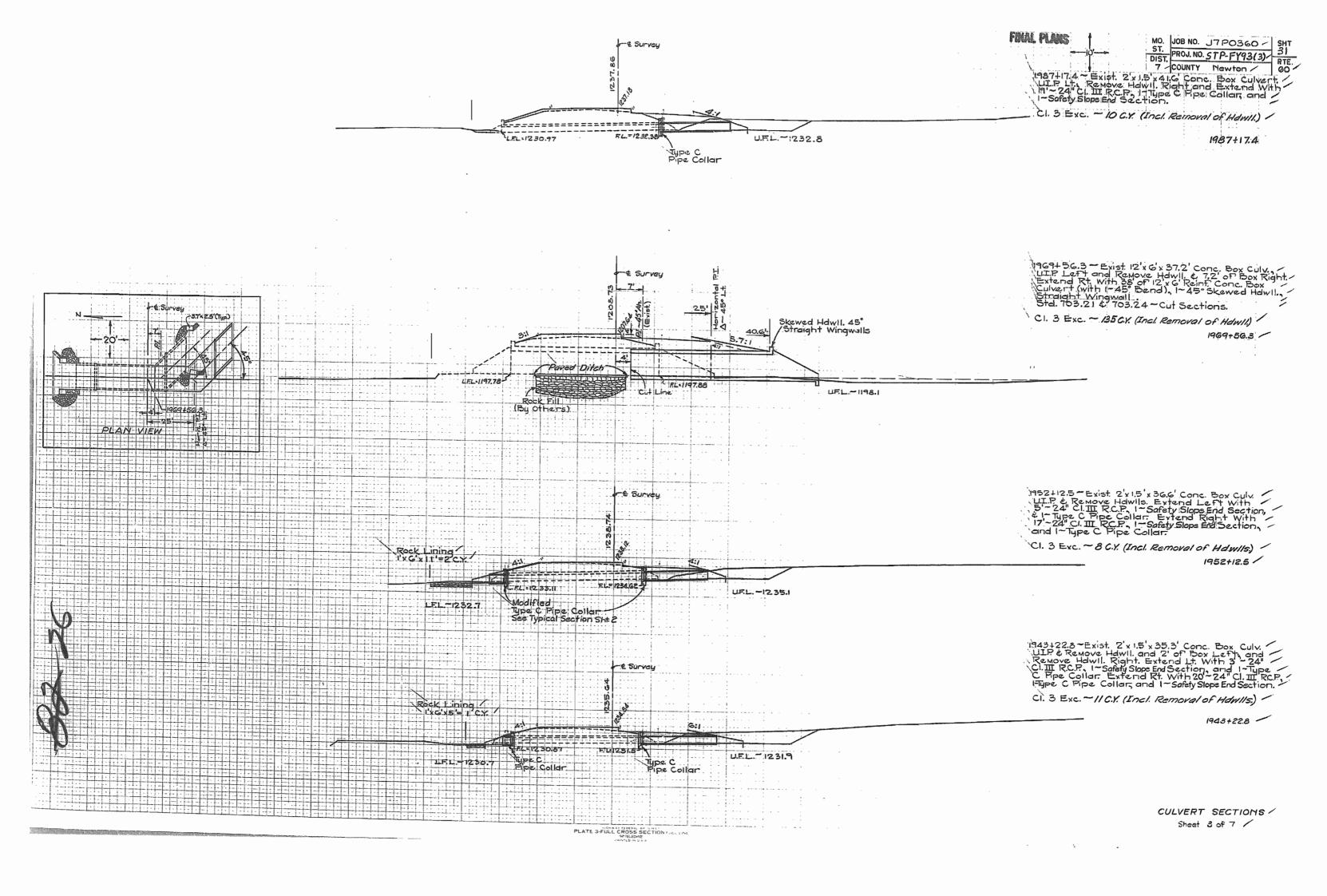


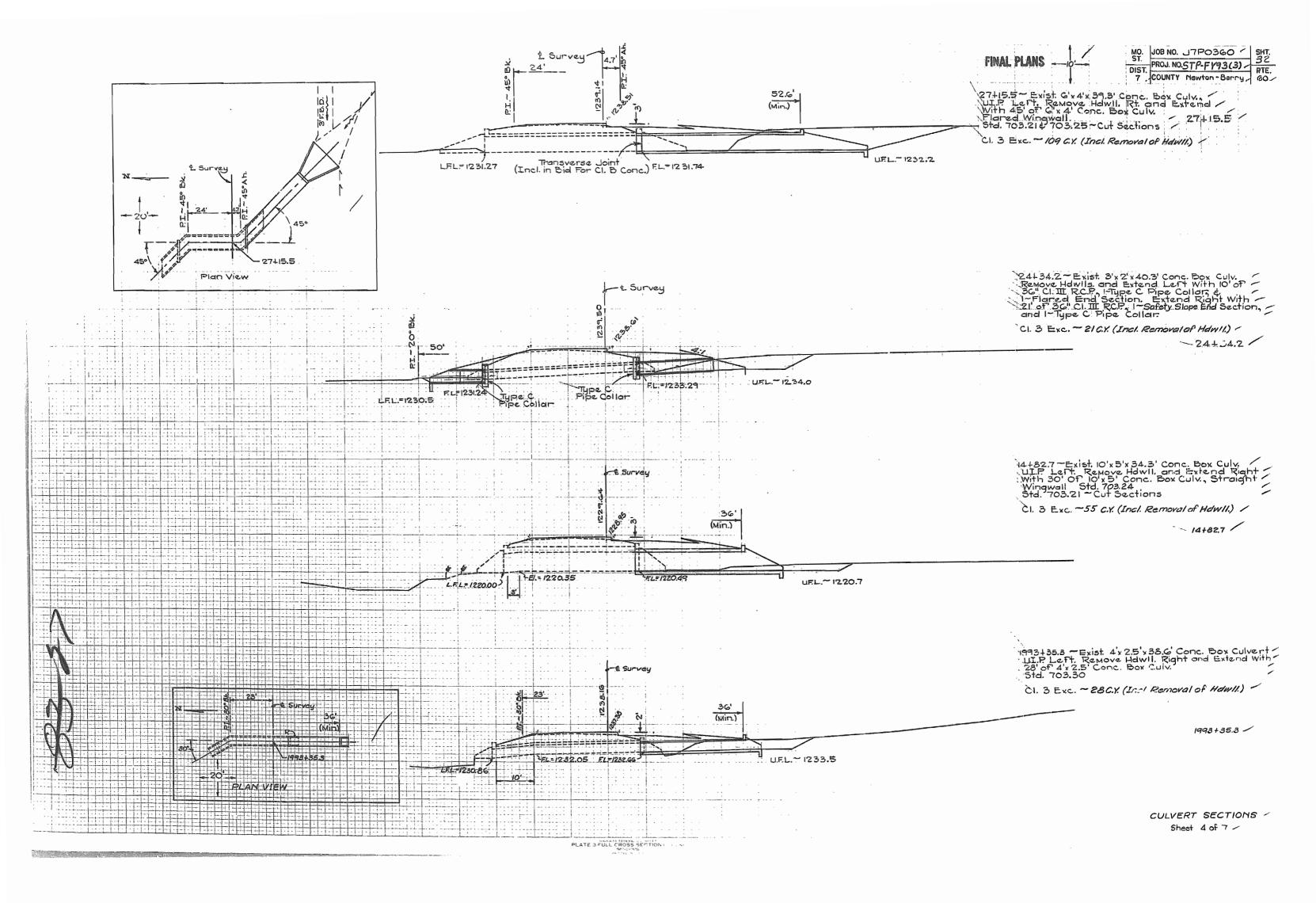


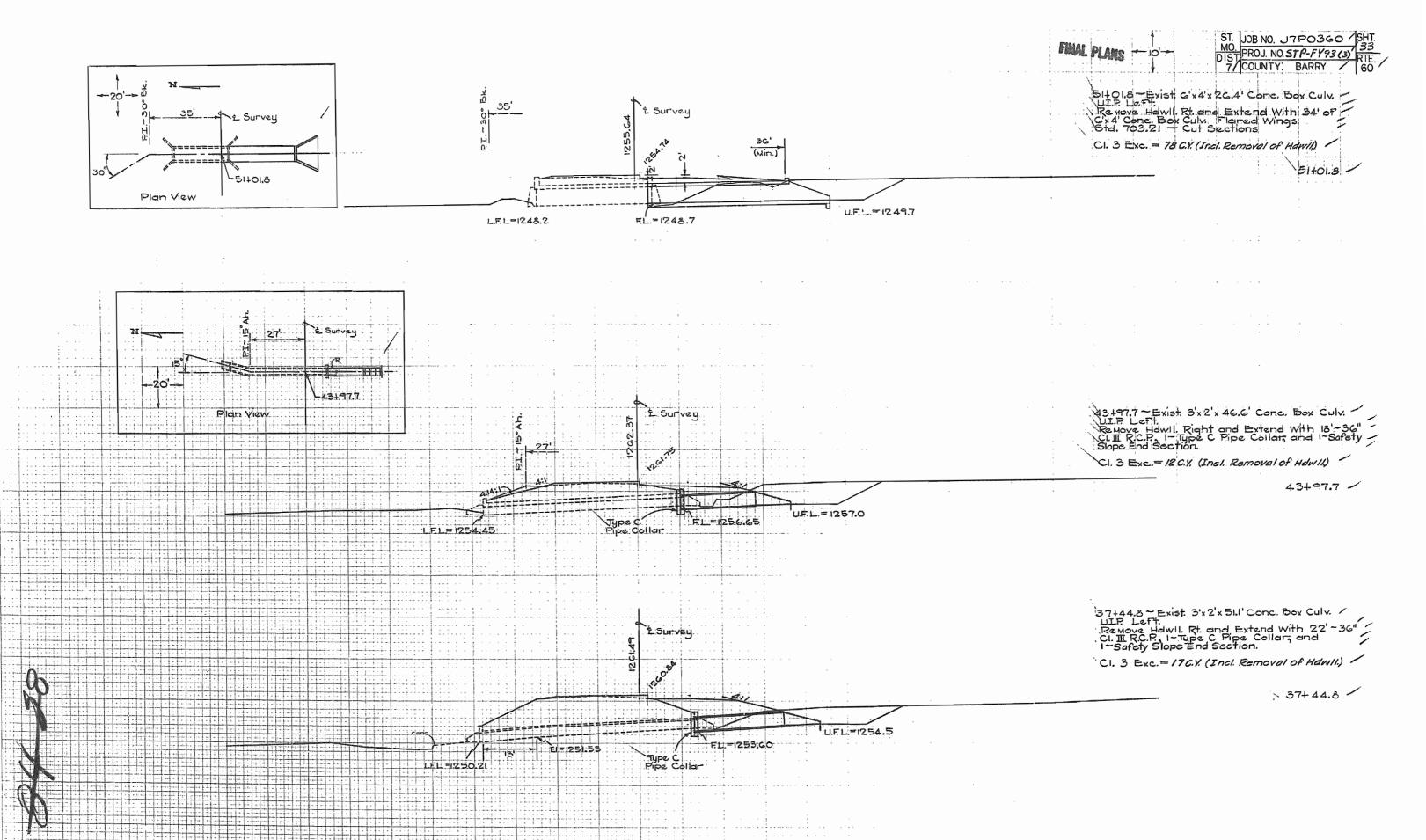






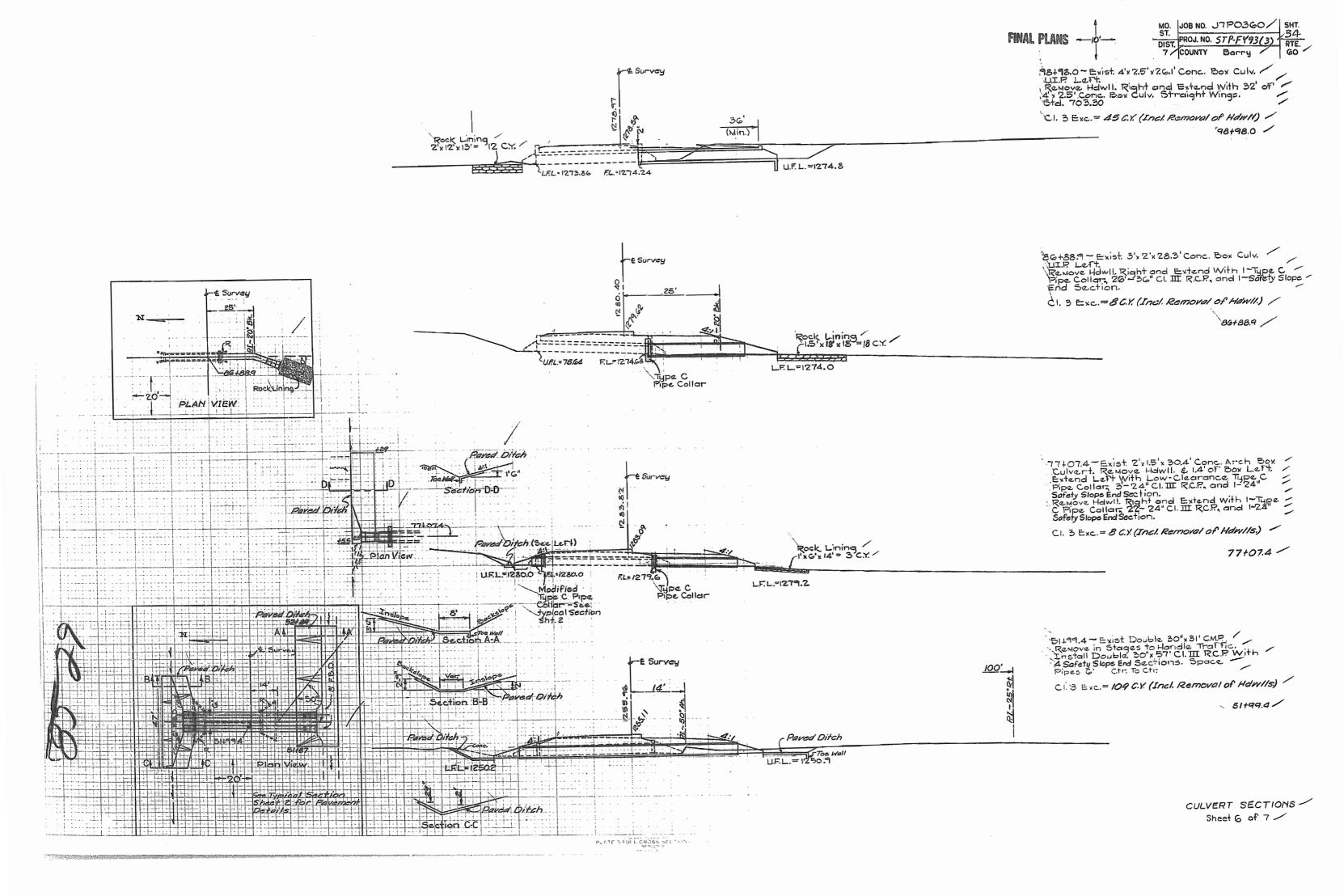


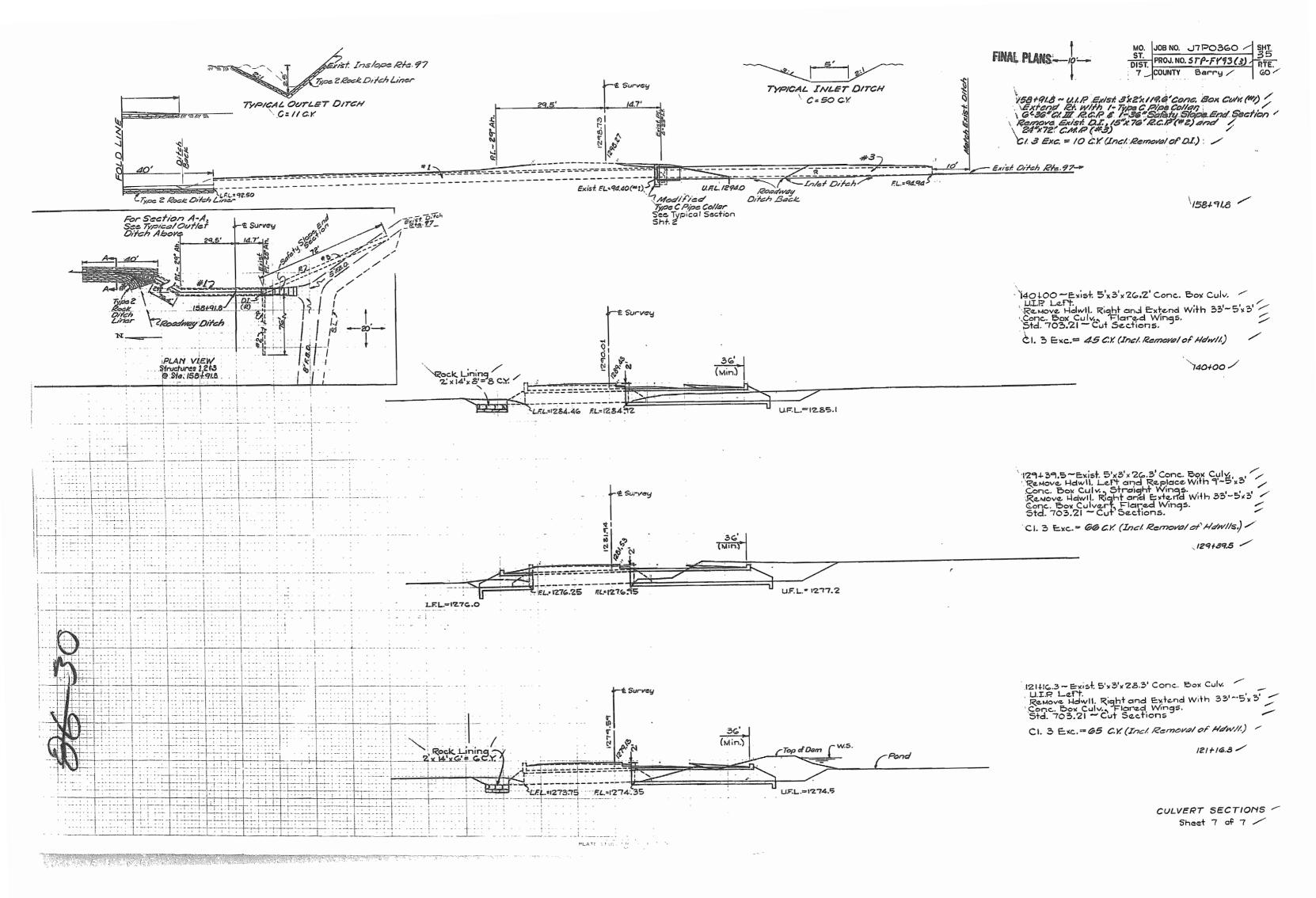




Culvert Sections / Sheet 5 of 7 /

PLATE 3-FULL CROSS SECTION OF CAME





#### MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

FINAL PLANS

STATE JOS NO. J7P03G0

DIST 77 COUNTY Newton - Barry

### STANDARD PLANS

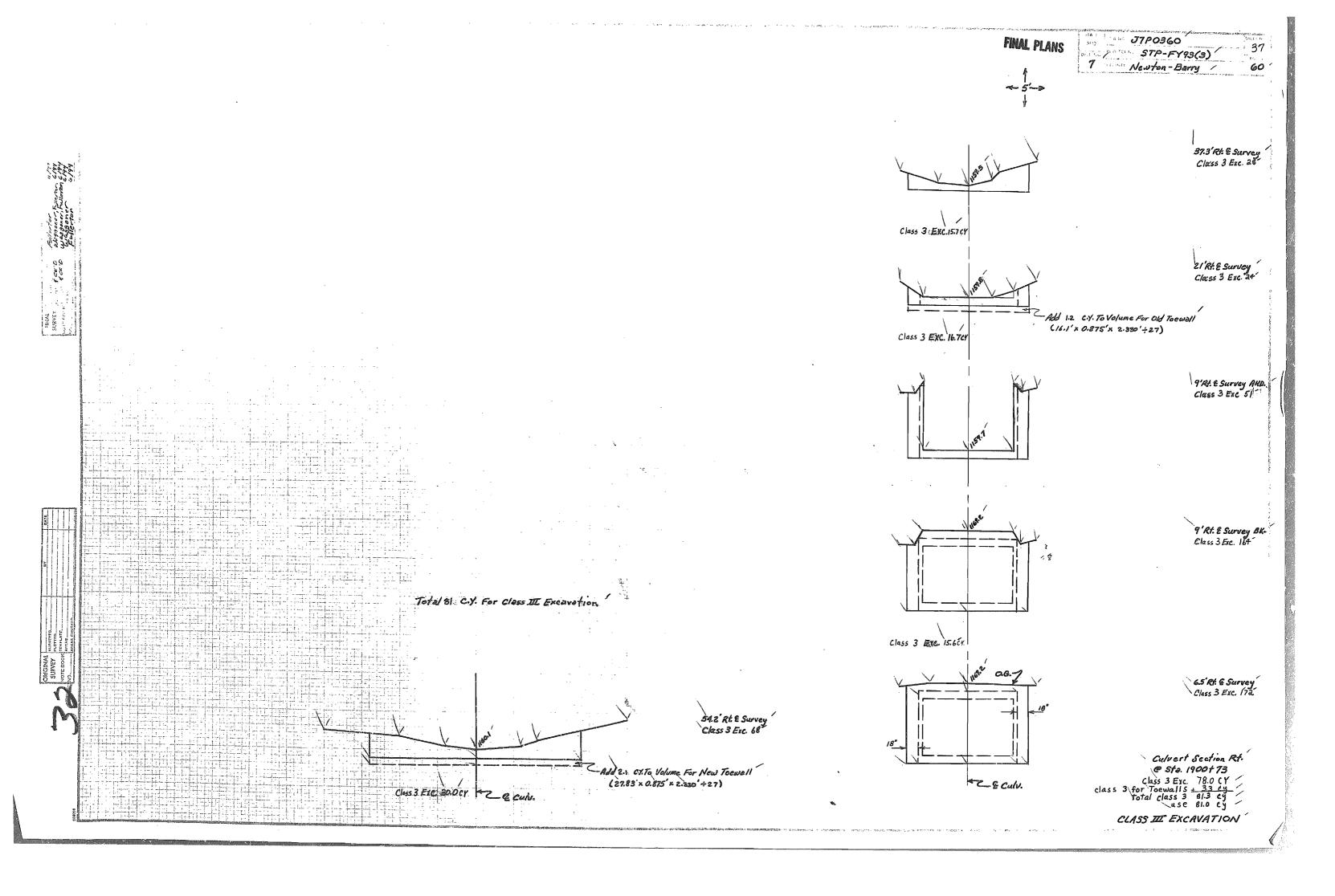
4	NO.	DESCRIPT ION
	203,00%	EXCAVATION & EMBANKMENT
	203.020	UNDERGRADING
	203.10B	TABULATED EARTHWORK & SECTION DATA
	203.20B	SUPERELEVATION SPIRALS & WIDENING (UNI VIDED)
	203.21B	SUPERELEVATION SPIRALS & WIDENING (DI\ DED)
	203.35A	MAILBOX TURNOUTS
	203.40E	TYPICAL DETAILS-RAMPS FOR INTERCHANG S (OTHER THAN 6:1
		FORESLOPE)
<u> </u>	203.41E	TYPICAL DETAILS-RAMPS FOR INTERCHANG S (6:1 FORESLOPE)
	203.50J	TYPICAL CROSS-OVERS (DIVIDED HIGHWA/3)
IV,	203.61	DRIVEWAY TYPE I
IV.	203.62	DRIVEWAY TYPE II
ILY	203.63	DRIVEWAY TYPE II I
I	203.64	DRIVEWAY TYPE IV
<b> </b>	203.65	DRIVEWAY TYPE V
I	204.000	EMBANKMENT CONTROL MEASURING DEV'JES
<b> </b>	502.00N	CONCRETE PAVEMENT & BASE APPURTY, ANCES (2 SHEETS) *
<b> </b>	502.10F	DOWEL SUPPORTING UNITS *
<b></b>	503.00J	CONCRETE APPROACH SLABS TO BRIDGES (ALSO INCLUDE 502.00)
<b> </b>	504.00 602.00A	CONCRETE APPROACH PAYEMENT (2 'HEETS) * RIGHT-OF-WAY & DRAIN MARKERS
<b> </b>	602.00A	RIGHT-UF-WAT & DRAIN MARKERS
<b> </b>	604.05B	PIPE CULVERT HEADWALLS - TYPE S
	004:000	FIFE COLVERT HEADRACES - TIPE S
i	604.10B	HEADWALL-WITH ENERGY DISSIPATOR - 18"
	604.11B	HEADWALL-WITH ENERGY DISSIPATOR - 24"
	604.129	HEADWALL-WITH ENERGY DISSIPATOR · 30"
	604,138	HEADWALL-WITH ENERGY DISSIPATOR - 36"
	604.148	HEADWALL-WITH ENERGY DISSIPATOR - 42"
	604.158	HEADWALL-WITH ENERGY DISSIPATOR - 48"
	604.203	DROP INLET - TYPE B
	604,21B	DROP INLET - TYPE C
	604.223	DROP INLET - TYPE D
<b> </b>	604.238	DROP INLET - TYPE E
	6C4.24B	DROP INLET - TYPE EC
	604.25	DROP INLET - TYPE F
1	1604.260	DROP IN ET - TYPE G
	604.270	DROP INLET - 17PE S (3 SHEETS)
1-	604.28E	DROP INLET - TYPE T (ALSO INCLUDE 614.36)
	604.29C	OROP INLET - TYPE X CONCRETE MANHOLES (ALSO INCLUDE 6.+,30)
1	604.40E	PIPE COLLARS
1-	1000.002	LILE CHETHES
-	605,10A	CLASS A UNDERDRAINS
	1000,100	CENSS A CHUERDRAINS
<b>I</b>	606,00Y	GUARD RAIL (6 SHEETS) *
4		X
	606.22K	BRIDGE ANCHOR SECTION (SAFETY BARRIER CURB ON BRIDGE)
	-	(ALSO INCLUDE 606.00)
	606,23C	BRIDGE ANCHOR SECTION (THRIE BEAM RAIL ON BRIDGE) (ALSO
		INCLUDE 606,00)
	606.30E	TERMINAL SECTION (ALSO INCLUDE 606.00)
	606.40A	GUARD CABLE
	607.10R	CHAIN LINK FENCE
	607.11B	CHAIN LINK FENCE FOR RETAIMING WALLS
	607.20F	WGVEN WIRE FENCE (ALSO INCLUDE 607.10)

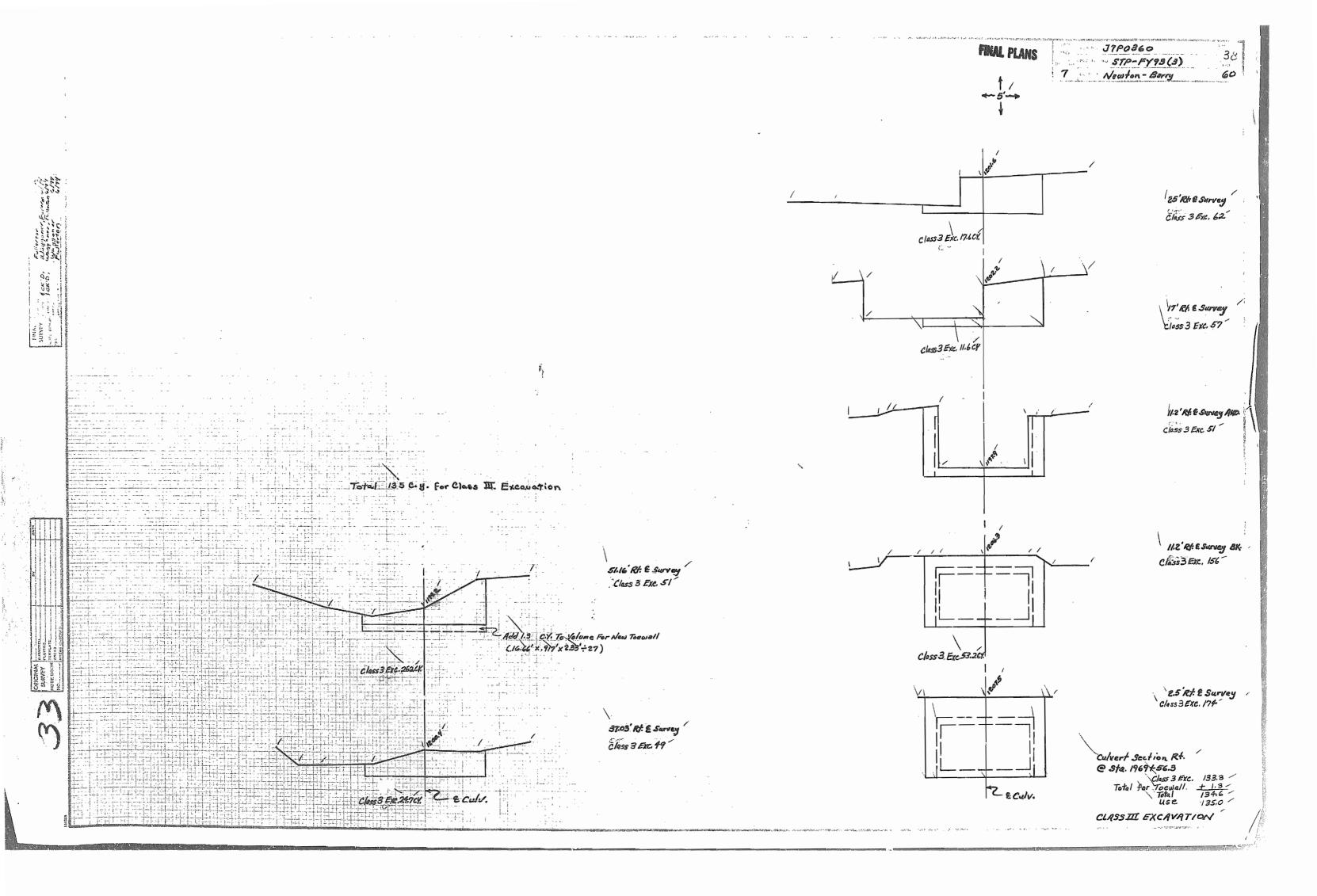
<b>V</b>	NO.	DESCRIPTION	
	300,806	PAVED APPROACHES	
	608.10G	CONCRETE SIDEWALK & WHEELCHAIR RAMPS	
	, 608,200	CONCRETE STEPS	-
	,609.00G	CONCRETE CURB - CURB & GUTTER - GUTTER	
V	609.15C	PAVED DITCHES	
	609.40E	DRAIN BASIN, SHLD. PAVE. & FILL SL. AT BR. ENDS (2 SHEETS)	
$\checkmark$	,609.60C	ROCK DITCH LINER	
<b>V</b>	609.70C	ROCK LINING FOR CULVERT OUTLETS	
	610.20E	BRICK MANHOLES (ALSO INCLUDE 614.30)	
	611.60L	CONCRETE SLOPE PROTECTION	
	612.10K	BARRICADES AND FLASHER SIGNS	
	613.00B	PAVEMENT REPAIR	
	614.10R	CURB INLETS, GRATES & BEARING PLATES	
	614.300	MANHOLE FRAMES & COVERS	
	615.00A	OFFICE FOR ENGINEER	
$\checkmark$	616.10P	TRAFFIC CONTROL DEVICES (3 SHEETS)(ALSO INCLUDE 903.01)	
	617.00X	CONCRETE TRAFFIC BARRIER (3 SHE' 'S)	_
	702.01F	16" CONCRETE PILES (APPROVED TYPES) (2 SHEETS)	
	702.026	CAST-IN-PLACE CONCRETE PILES (APPROVED TYPES)	
	,		
$\checkmark$	703.21E	CONCRETE BOX CULVERTS, H20 LOADING (3 SHEETS)(FLARED	
<u> </u>		WINGS) (INCL 706,35)	
V	703,24E	CONCRETE BOX CULVERTS, SKEW DATA (703,30)(INCL 706,35)	
•		SUBJECT DON COLUMN ON THE DATA (700 DO) (2102 700 DO)	
<b>~</b>	703.25E	CONCRETE BOX CULVERTS, SKEW DATA (703.21)(3 SHTS)	
•	7001200	(FLRD WINGS) (INCL 706.35)	_
	703.30F	CONCRETE BOX CULVERTS, 4' SPANS & LESS-ALL LOADING	
	700,000		
	703.35B	(INCL 706.35)	
	703.335	CONCRETE BOX CULVERTS, CUTTING DETAILS (STRAIGHT WINGS)	
	707 764	(INCL 706.35)	
	703.36A	CONCRETE BOX CULVERTS, CUTTING DETAILS (FLARED WINGS)	
		(INCL 706.35)	
	703.50H	CONCRETE DOUBLE BOX STRUCTURE-SQUARE (INCL 706.35)	
	703.51G	CONCRETE DOUBLE BOX STRUCTURE-SKEWED (INCL 706.35)	
	703.52D	CONCRETE DOUBLE BOX STRUCTURE-CUT SECTIONS (INCL 706.35)	
	703.54E	DOUBLE BOX STRUCTURE REINFORCEMENT-H20 OR HS20 LOADING	
		(8 SHEETS)	
	703.552	CONCRETE DOUBLE BOX STRUCTURE (FLARED WINGS) SQUARE	
		(INCL 706,35)	
	703.56E	CONCRETE DOUBLE BOX STRUCTURE (FLARED WINGS) SKEWED	
		(INCL 706,35)	
	703.JOC	CONCRETE BOX STRUCTURE-PIPE INLET	
	703.700	CONCRETE TRIPLE BOX STRUCTURE-SQUARE (2 SHEETS)	
		(INCL 706.35)	
	703.710	CONCRETE TRIPLE BOX STRUCTURE-SKEWED (2 SHEETS)	
		(INCL 706,35)	~
	703.72D	CONCRETE TRIPLE BOX STRUCTURE- (FLARED WINGS) (SQUARE)	
		(2 SHEETS) (INCL 706.35)	*****
	703.73D	CONCRETE TRIPLE BOX STRUCTURE-(FLARED WINGS)(SKEWED)	
		(2 SHEETS) (INCL 706.35)	
	703.74D	CONCRETE TRIPLE BOX STRUCTURE-CUT SECTIONS (INCL	
		706,35)	
	703.76B	CONCRETE TRIPLE BOX STRUCTURE REINFORCEMENT-H20 OR HS20	
_	1	LOADING (5 SHEETS)	
	706.30E	REINFORCING BAR SUPPORTS	
V	706.35E		
		BAR SUPPORTS FOR CONCRETE REINFORCEMENT	
	712.40E	STEEL DAMS FOR BRIDGES (6" CHANNEL)	
	726.30C	METAL CURTAIN WALL AND METAL INLETS	
		CULVERT INSTALLATION METHODS	
V			
<b>V</b>	731.00S 731.10K	PRECAST MANHOLES (ALSO INCL 614.30) PRECAST DROP INLETS (4 SHTS)(ALSO INCL 614.30 & 614.10)	

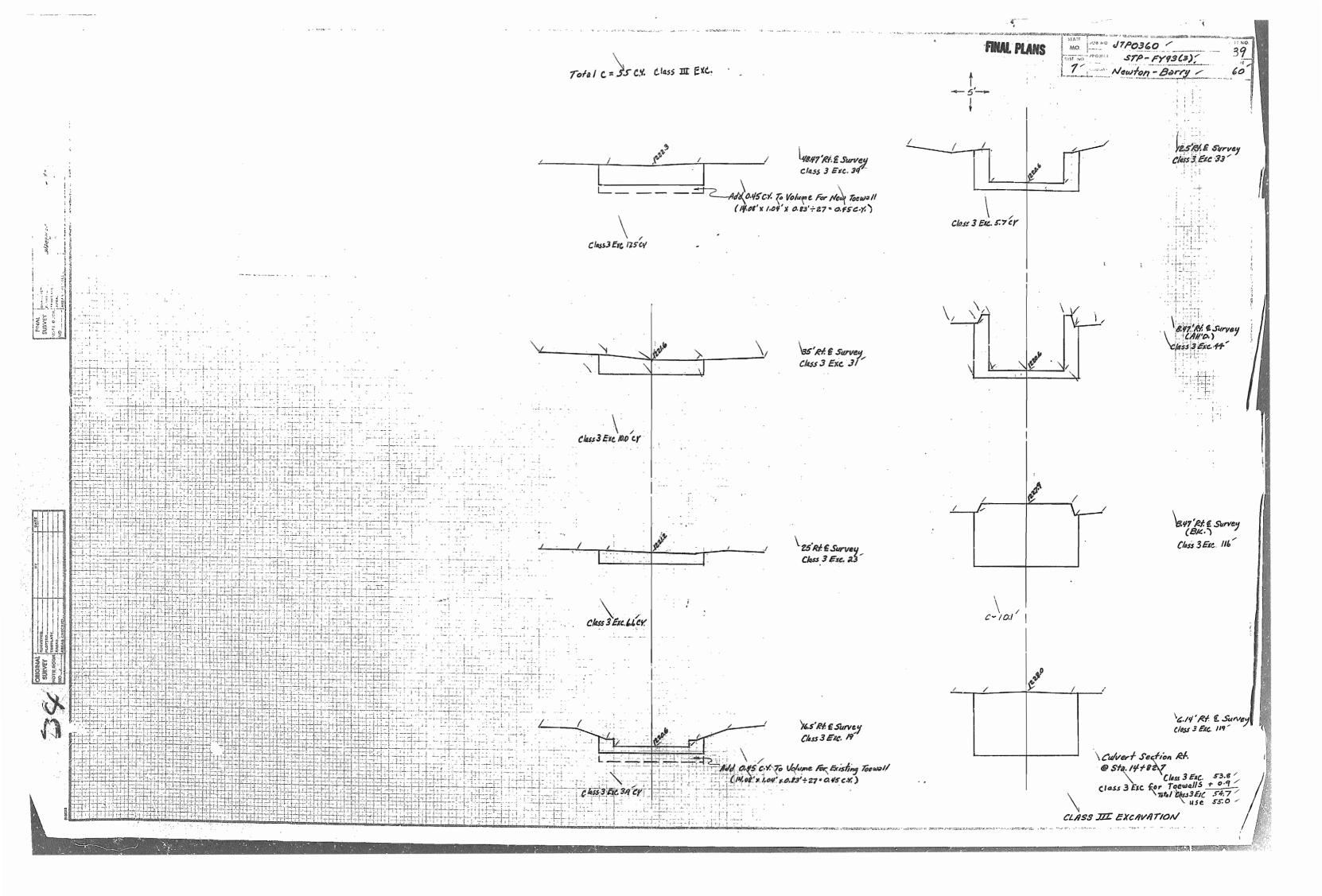
		_	
4	NO.	DESCRIPTION	
$\nabla$	732.00L	FLARED END SECTION (2 SHEETS)	//////////////////////////////////////
V	732.10	SAFETY SLOPE END SECTIONS (2 SHEETS)	*
	806.02A	STAPLE PLACEMENT FOR PLASTIC NETTING	
		HIGHWAY LIGHTING	
	901.00P	POLES & APPURTENANCES-30' (3 SHEETS)	
—	901.010	POLES & APPURTENANCES-45' (3 SHEETS)	
	901.05A	CONTROL PANEL CABINET DETAILS (2 SHEETS) (SEE NOTE)	
_	901.120	POLE MOUNT CONT STA-SECONDARY SERV-480 V MULTI CIR (NOT	
	901.15E	METERED)	
	901.15E	POLE MOUNT CONT STA-SEC SERV-120,240, & 480 V MULTI CIR	
-	901.18D	POLE MOUNT CONT STA-SEC SERV-480 V MULTI CIR (METERED) POLE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR	
	901.19D	POLE MOUNT CONT STA-SEC SERV-120/240 V MOLTI CIR (NOT	
	7011175	METERED)	
	901.20D	POLE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR (SIG	
		METERED)	
	901.22E	POLE MOUNT CONT STA-SEC SERV-120/240 & 480 V MULTI CIR	
		(BOTH METERED)	
	901.23E	POLE MOUNT CONT STA-SEC SERV-240 V MULTI CIR (METERED)	
	901.24D	POLE MOUNT CONT STA-SEC SERV-240 V MULTI CIR (LIGHTS &	
		SIGNALS-BOTH METERED)	
	901.25D	BASE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR	
	<u> </u>	NOTE: ALSO INCLUDE 901.05 WITH 901.12 THROUGH 901.25 EXCEPT 901.18	[
		TRAFFTA ATOMA A	
	902.00F	TRAFFIC SIGNALS SIGNAL HEADS, LENSES AND MOUNTING	
	902.10J	PULL BOXES, CONTROLLERS, COND LOCATION	
	902.15D		
_		IPOWER SUPPLY ASSEMBLY	
	1902.21B	POWER SUPPLY ASSEMBLY TELEPHONE INTERCONNECT	
	902.21B 902.30H	POWER SUPPLY ASSEMBLY TELEPHONE INTERCONNECT CONCRETE BASES	*
		TELEPHONE INTERCONNECT	*
	902.30H	TELEPHONE INTERCONNECT CONCRETE BASES	*
	902.30H 902.40J	TELEPHONE INTERCONNECT CONCRETE BASES TUBULAR STEEL POST	*
	902.30H 902.40J 902.50F	TELEPHONE INTERCONNECT CONCRETE BASES TUBULAR STEEL POST DETECTORS	*
	902.30H 902.40J 902.50F 902.60F	TELEPHONE INTERCONNECT CONCRETE BASES TUBULAR STEEL POST DETECTORS SPAN WIRE DETAILS-STEEL POST	*
	902.30H 902.40J 902.50F 902.60F 902.70D	TELEPHONE INTERCONNECT CONCRETE BASES TUBULAR STEEL POST DETECTORS SPAN WIRE DETAILS-STEEL POST SPAN WIRE DETAILS-WOOD POLE	*
	902.30H 902.40J 902.50F 902.60F 902.70D	TELEPHONE INTERCONNECT CONCRETE BASES TUBULAR STEEL POST DETECTORS SPAN WIRE DETAILS-STEEL POST SPAN WIRE DETAILS-WOOD POLE TRAFFIC SIGNAL SYMBOLS	*
	902,30H 902,40J 902,50F 902,60F 902,70D 902,80A	TELEPHONE INTERCONNECT CONCRETE BASES TUBULAR STEEL POST DETECTORS SPAN WIRE DETAILS-STEEL POST SPAN WIRE DETAILS-WOOD POLE TRAFFIC SIGNAL SYMBOLS HIGHWAY SIGNING	*
	902.30H 902.40J 902.50F 902.60F 902.70D 902.80A	TELEPHONE INTERCONNECT CONCRETE BASES TUBULAR STEEL POST DETECTORS SPAN WIRE DETAILS-STEEL POST SPAN WIRE DETAILS-WOOD POLE TRAFFIC SIGNAL SYMBOLS  HIGHWAY SIGNING ALPHABETS (2 SHEETS)	*
	902.30H 902.40J 902.50F 902.60F 902.70D 902.80A 903.01C 903.02Y	TELEPHONE INTERCONNECT CONCRETE BASES TUBULAR STEEL POST DETECTORS SPAN WIRE DETAILS-STEEL POST SPAN WIRE DETAILS-WOOD POLE TRAFFIC SIGNAL SYMBOLS  HIGHWAY SIGNING ALPHABETS (2 SHEETS) HIGHWAY SIGNING (7 SHEETS)	*
	902.30H 902.40J 902.50F 902.60F 902.70D 902.80A 903.01C 903.02Y 903.03AP	TELEPHONE INTERCONNECT  CONCRETE BASES  TUBULAR STEEL POST  DETECTORS  SPAN WIRE DETAILS-STEEL POST  SPAN WIRE DETAILS-WOOD POLE  TRAFFIC SIGNAL SYMBOLS  HIGHWAY SIGNING  ALPHABETS (2 SHEETS)  HIGHWAY SIGNING (7 SHEETS)  SIGN MOUNTING DETAILS (5 SHEETS)	*
✓	902.30H 902.40J 902.50F 902.60F 902.70D 902.80A 903.01C 903.02Y 903.03AP 903.04D	TELEPHONE INTERCONNECT CONCRETE BASES TUBULAR STEEL POST DETECTORS SPAN WIRE DETAILS-STEEL POST SPAN WIRE DETAILS-WOOD POLE TRAFFIC SIGNAL SYMBOLS  HIGHWAY SIGNING ALPHABETS (2 SHEETS) SIGN MOUNTING DETAILS (5 SHEETS) WEIGH STATION SIGNING	*
V	902.30H 902.40J 902.50F 902.60F 902.70D 902.80A 903.01C 903.02Y 903.03AP 903.04D 903.05C	TELEPHONE INTERCONNECT CONCRETE BASES TUBULAR STEEL POST DETECTORS SPAN WIRE DETAILS-STEEL POST SPAN WIRE DETAILS-WOOD POLE TRAFFIC SIGNAL SYMBOLS  HIGHWAY SIGNING ALPHABETS (2 SHEETS) SIGN MOUNTING DETAILS (5 SHEETS) WEIGH STATION SIGNING TUBULAR SPAN SUPPORT-ONE TUBE, TYPE S	*
✓	902,30H 902,40J 902,50F 902,60F 902,70D 902,80A 903,01C 903,02Y 903,03AP 903,04D 903,05C 903,06C	TELEPHONE INTERCONNECT CONCRETE BASES TUBULAR STEEL POST DETECTORS SPAN WIRE DETAILS-STEEL POST SPAN WIRE DETAILS-WOOD POLE TRAFFIC SIGNAL SYMBOLS  HIGHWAY SIGNING ALPHABETS (2 SHEETS) HIGHWAY SIGNING (7 SHEETS) SIGN MOUNTING DETAILS (5 SHEETS) WEIGH STATION SIGNING TUBULAR SPAN SUPPORT-ONE TUBE, TYPE S TUBULAR SPAN SUPPORT-TWO TUBE, TYPE S	*
✓	902.30H 902.40J 902.50F 902.60F 902.70D 902.80A 903.01C 903.02Y 903.03AP 903.04D 903.05C	TELEPHONE INTERCONNECT  CONCRETE BASES  TUBULAR STEEL POST  DETECTORS  SPAN WIRE DETAILS-STEEL POST  SPAN WIRE DETAILS-WOOD POLE  TRAFFIC SIGNAL SYMBOLS  HIGHWAY SIGNING  ALPHABETS (2 SHEETS)  HIGHWAY SIGNING (7 SHEETS)  SIGN MOUNTING DETAILS (5 SHEETS)  WEIGH STATION SIGNING  TUBULAR SPAN SUPPORT-ONE TUBE, TYPE S  TUBULAR SPAN SUPPORT-TWO TUBE, TYPE S  TUBULAR CANTILEVER SUPPORTS, TYPE C	*
✓	902,30H 902,40J 902,50F 902,60F 902,70D 902,80A 903,01C 903,02Y 903,03AP 903,04D 903,05C 903,07C	TELEPHONE INTERCONNECT CONCRETE BASES TUBULAR STEEL POST DETECTORS SPAN WIRE DETAILS-STEEL POST SPAN WIRE DETAILS-WOOD POLE TRAFFIC SIGNAL SYMBOLS  HIGHWAY SIGNING ALPHABETS (2 SHEETS) HIGHWAY SIGNING (7 SHEETS) SIGN MOUNTING DETAILS (5 SHEETS) WEIGH STATION SIGNING TUBULAR SPAN SUPPORT-ONE TUBE, TYPE S TUBULAR SPAN SUPPORT-TWO TUBE, TYPE S	**
✓	902.30H 902.40J 902.50F 902.60F 902.70D 902.80A 903.01C 903.02Y 903.03AP 903.05C 903.05C 903.06C 903.08C	TELEPHONE INTERCONNECT  CONCRETE BASES  TUBULAR STEEL POST  DETECTORS  SPAN WIRE DETAILS-STEEL POST  SPAN WIRE DETAILS-WOOD POLE  TRAFFIC SIGNAL SYMBOLS  HIGHWAY SIGNING  ALPHABETS (2 SHEETS)  HIGHWAY SIGNING (7 SHEETS)  SIGN MOUNTING DETAILS (5 SHEETS)  WEIGH STATION SIGNING  TUBULAR SPAN SUPPORT-ONE TUBE, TYPE S  TUBULAR SPAN SUPPORT-TWO TUBE, TYPE S  TUBULAR CANTILEVER SUPPORTS, TYPE C  TUBULAR BUTTERFLY SUPPORTS, TYPE B	
✓	902.30H 902.40J 902.50F 902.60F 902.70D 902.80A 903.01C 903.02Y 903.03AP 903.04D 903.05C 903.06C 903.08C 903.09D	TELEPHONE INTERCONNECT  CONCRETE BASES  TUBULAR STEEL POST  DETECTORS  SPAN WIRE DETAILS-STEEL POST  SPAN WIRE DETAILS-WOOD POLE  TRAFFIC SIGNAL SYMBOLS  HIGHWAY SIGNING  ALPHABETS (2 SHEETS)  HIGHWAY SIGNING (7 SHEETS)  SIGN MOUNTING DETAILS (5 SHEETS)  WEIGH STATION SIGNING  TUBULAR SPAN SUPPORT-ONE TUBE, TYPE S  TUBULAR SPAN SUPPORT-TWO TUBE, TYPE S  TUBULAR CANTILEVER SUPPORTS, TYPE C  TUBULAR BUTTERFLY SUPPORTS, TYPE B  LIGHTING SUPPORT BRACKET	
✓ ————————————————————————————————————	902.30H 902.40J 902.50F 902.60F 902.70D 902.80A 903.01C 903.02Y 903.03AP 903.04D 903.05C 903.06C 903.08C 903.09D 903.10T	TELEPHONE INTERCONNECT  CONCRETE BASES  TUBULAR STEEL POST  DETECTORS  SPAN WIRE DETAILS-STEEL POST  SPAN WIRE DETAILS-WOOD POLE  TRAFFIC SIGNAL SYMBOLS  HIGHWAY SIGNING  ALPHABETS (2 SHEETS)  HIGHWAY SIGNING (7 SHEETS)  SIGN MOUNTING DETAILS (5 SHEETS)  WEIGH STATION SIGNING  TUBULAR SPAN SUPPORT-ONE TUBE, TYPE S  TUBULAR SPAN SUPPORT-TWO TUBE, TYPE S  TUBULAR CANTILEVER SUPPORTS, TYPE C  TUBULAR BUTTERFLY SUPPORTS, TYPE C  TUBULAR SUPPORT BRACKET  SIGN TRUSSES-OVERHEAD ALUMINUM (8 SHEETS) (INCL 903.03)	
✓	902.30H 902.40J 902.50F 902.60F 902.70D 902.80A 903.01C 903.02Y 903.03AP 903.04D 903.05C 903.06C 903.08C 903.09D 903.10T	TELEPHONE INTERCONNECT  CONCRETE BASES  TUBULAR STEEL POST  DETECTORS  SPAN WIRE DETAILS-STEEL POST  SPAN WIRE DETAILS-WOOD POLE  TRAFFIC SIGNAL SYMBOLS  HIGHWAY SIGNING  ALPHABETS (2 SHEETS)  HIGHWAY SIGNING (7 SHEETS)  SIGN MOUNTING DETAILS (5 SHEETS)  WEIGH STATION SIGNING  TUBULAR SPAN SUPPORT-ONE TUBE, TYPE S  TUBULAR SPAN SUPPORT-TWO TUBE, TYPE S  TUBULAR CANTILEVER SUPPORTS, TYPE C  TUBULAR BUTTERFLY SUPPORTS, TYPE B  LIGHTING SUPPORT BRACKET  SIGN TRUSSES-OVERHEAD ALUMINUM (8 SHEETS) (INCL 903.03)  SIGN TRUSSES-BUTTERFLY & CANTILEVER-STEEL (7 SHEETS)	

NOTES: PLANS FOR THIS PROJECT WERE DEVELOPED USING DRAWINGS FROM THIS INDEX

* REVISED OR NEW SINCE JAN. 1, 1992.







INDEX OF SHEETS
TITLE SHEET
TYPICAL SECTIONS ( Sheet ) 2
SUMMARY (3 Sheet ) 2-A
PLAN-PROFILE & B SHEETS 3-15
REFERENCE POINTS16-17
SPECIAL SHEETS
LIGHTING
SIGNALS
SIGNING
CULVERT SECTIONS
BRIDGE PLANS27-3
STANDARDS21
CROSS SECTIONS
- Covetable - 2:5555 - 2:1-1:22-1:

KEY MAP THUD TO MOTADI. THE MAIN DESIGN DESIGNATION

A.D.T. (1982) = 1850

A.D.T. (1982) = 3800 D.H.V. (1982) = 390 D=50% V=70 m.p.h.

#### MISSOURI STATE HIGHWAY COMMISSION PLAN AND PROFILE **OF PROPOSED** STATE ROAD

FEDERAL AID PROJECT **NEWTON COUNTY** 

#### LIMITED ACCESS HIGHWAY

NEWTON GO PROJECT NO

regend , LINE'S BEARING THIS SYMBOL WILL BE PERMITTED L'DER ANY CIRCUMSTANCES.



CONVENTIONAL STATE LINE----COUNTY LINE----CITY LIMITS-----TOWNSHIP OR RANGE LINE---OTHER LAND SURVEY LINES----RAILROAD -----SURVEY CENTER-LINE----OVERHEAD TELEPHONE NEW -O-T-O-OVERHEAD TELEPHONE EXIST -T-O-T-

GROUND LINE----GRADE LINE ----TITLE SHEET LEGEND

INTERCHANGE-----GRADE SEPARATION-----ONSTRUCTION IDENTIFICATION SIGNS --

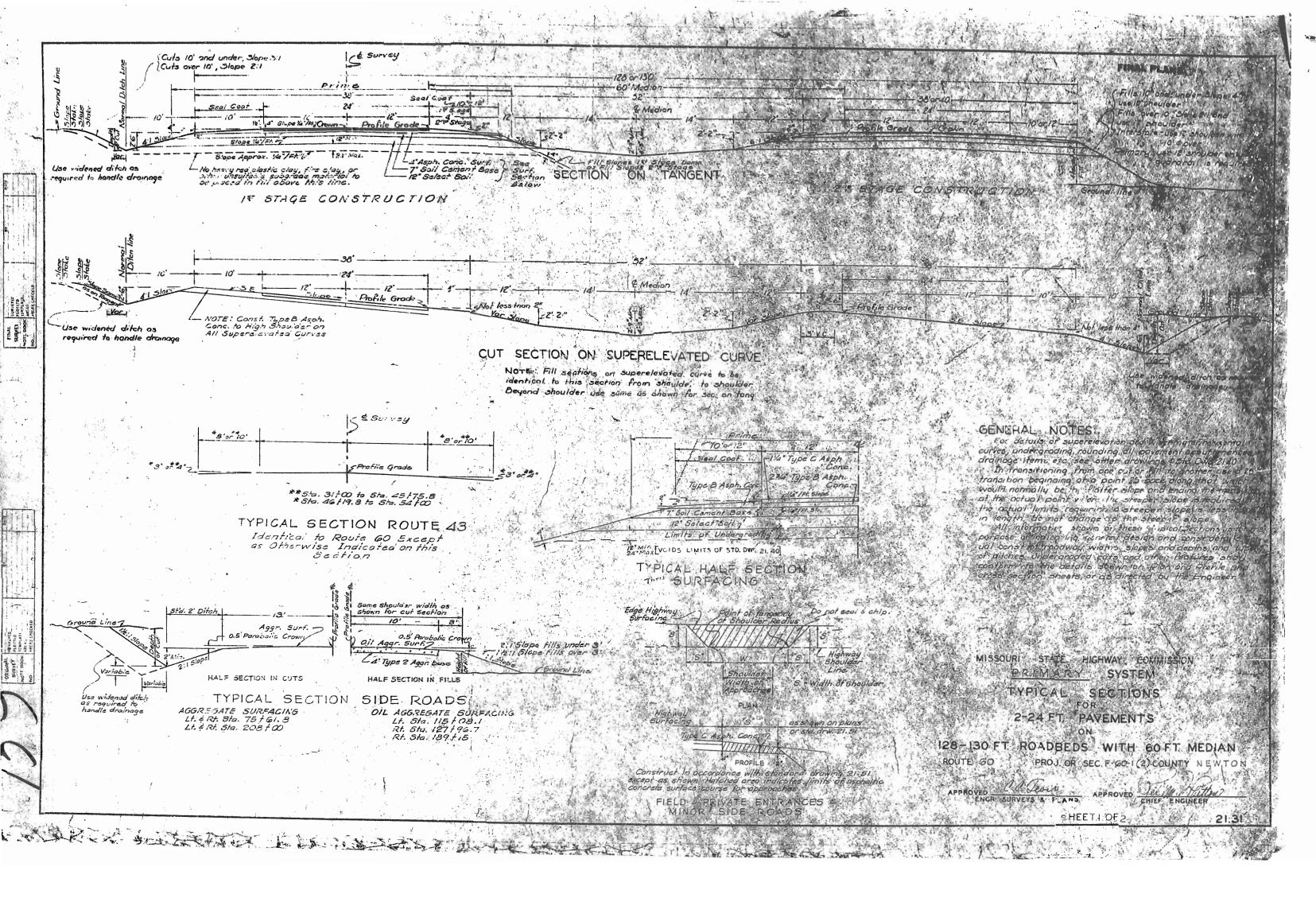
SUBMITTED BY DATE

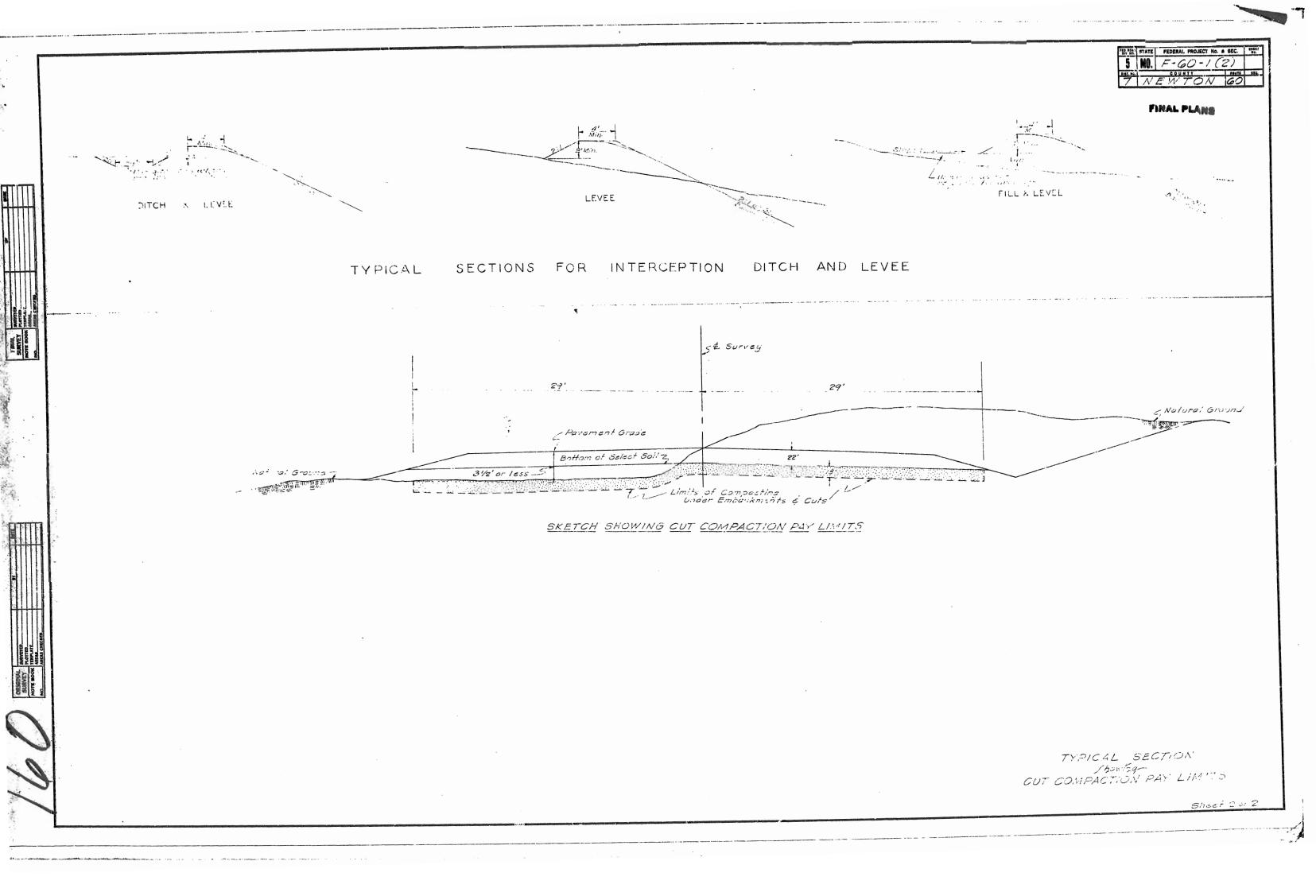
CHIEF ENGINEER MISSOURI STATE HIGHWAY COMMISSION DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS

APPROVED:

DIVISION ENGINEER

DATE





LOCATION OKLAHOMA STATE LINE EASTERLY TO WESTVIEW

#### MISSOURI STATE HIGHWAY COMMISSION

TYPE GRADING CULVERIS : 1-24 ASPHALTIC CONCRETE PAVEMENT

EXCAVATION

SUMMARY OF QUANTITIES

MO. F-60-1(2) COUNTY FINAL PLANS NEWTON 60% GENERAL SUMMARY UNIT TOTAL UNITS NO. UNITS 20008 Clearing Acre: 80.9

	1 160		AVATI				ahean announcement	- Promise de la company de la company de la company de la company de la company de la company de la company de			N	,			•				the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		GENERAL SUM	MARY	1 6	07
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Lowy					(56 X66)	CANINE	4		Fred of Pro	rect		Station	2824148	4%	End of Project				14.84		Glassing-	UNIT	. O I HE GIVI	S NO. UNIT
0/00	-	1					<del> </del>	<u> </u>	Baginaing of	Prese	<u> </u>	Stalier	ofoa	47	Beginning of Project			Station	20 :17	20100	Grebbins	- Acre.	80.5	
26/00 30382	3/3				166,000		+		Apperent L	angth		1	282 11884		Apparent Length			282/6	84 Feet	21004	Grebbins		1666	1
108 100 45 668 2048		6714	22,236	-4606	100		+		Eguations	end fx	ceetien	-			Equations and Exception		A	1		2/0/4	Stock pile Borrow	- LCX		4
120200 4000		11,389	22 446	3,078	159782	-34,837	Includes S	R. 75/6/2	500	820 G	Lezeth				Sta 13+0	5.65 AK	1.5 fo 19	100 At 116	6.37	2/40/	Hook pill Dorrow	GX	40,862	4
151 150 50,380 10953		2322	egerr	4525	175,715	4.510	Includer 2	ile book -				-		1	Sta 226+0	38 AF.	5/2 224	162184 (12027		2/204	Class C Excevelier	CY.	12203	
162/40) 46,171", 2,102 208/00 165514"		1,200			10000		+	<u> </u>	Total Cert	ceeting	٤		120935	Feet			I	1.4567	1	2/2/4	Compacitos Embert mesta	CX	183735	4
		2,572					<del>_</del>		Federal Lo	agth.			28,424.19	Veer.					6	2/2/6	Companiens in Cuts	1 - CX		
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782 HEST 18,282 16,400		2.188	22,20		25,400	1372 6	<del> </del>					ļ			Net Length of Project				Feet	2/400	Ovechen Totacosetien Ditah	- Sumi ye	1. 4/4/6 "	7
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46/36! EXCEP		3010	3.65/		<del> </del>	<del> </del>	Lte 43	-	<del>                                     </del>			<del></del>	BOX C	ULVERZ	· ·	Federal Le	ngth =	6282	Wiles			100 601	1105	
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Project Accepted June 6, 1966

Prepared By C. Brigher Date 14 19 66

Checked in Dist. Office By M. C. Harris Date 6/15 19 66

S & P - 2AS

LOCATION OKLAHOMA STATE LINE EASTERLY TO WESTVIEW

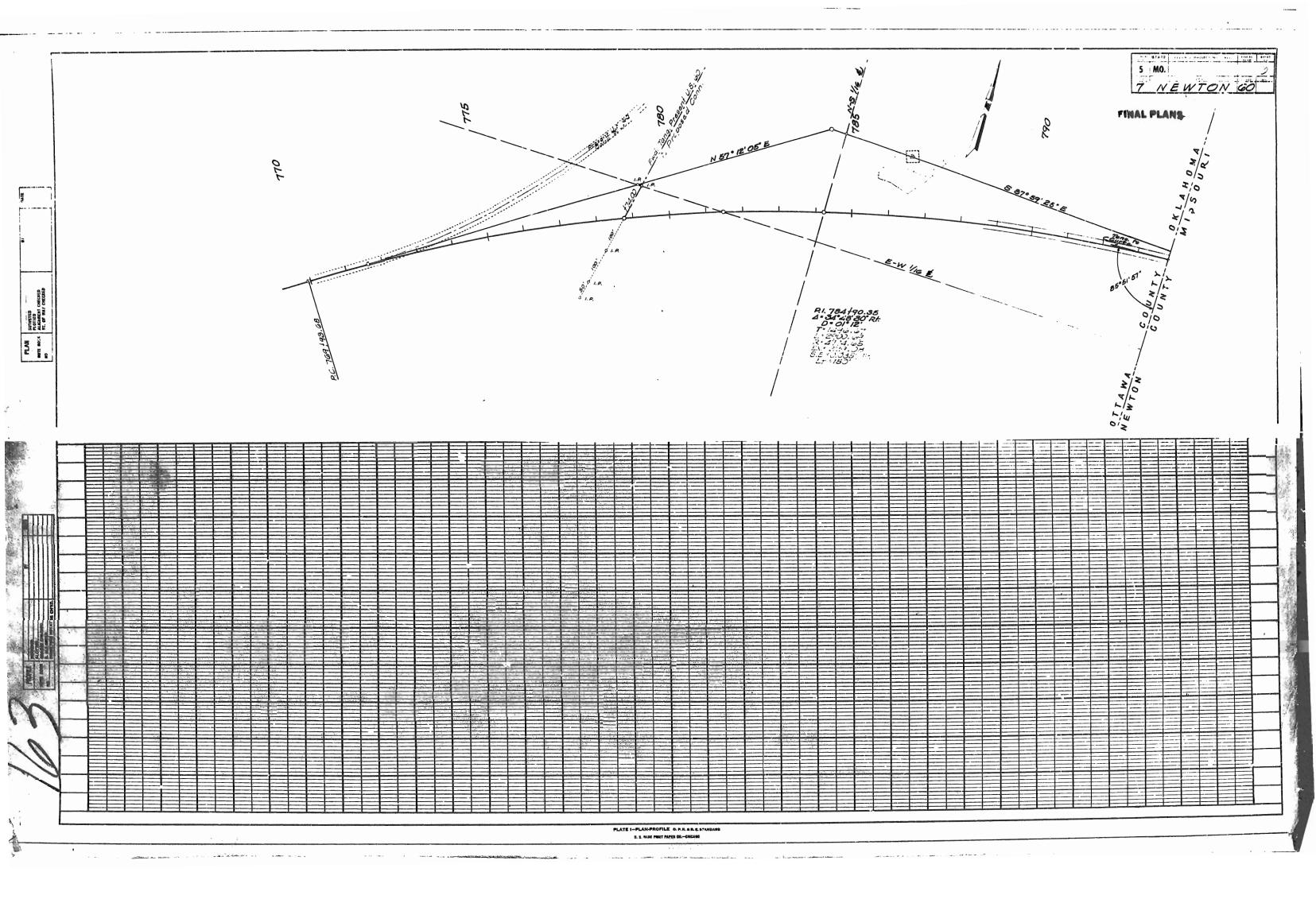
#### MISSOURI STATE HIGHWAY COMMISSION

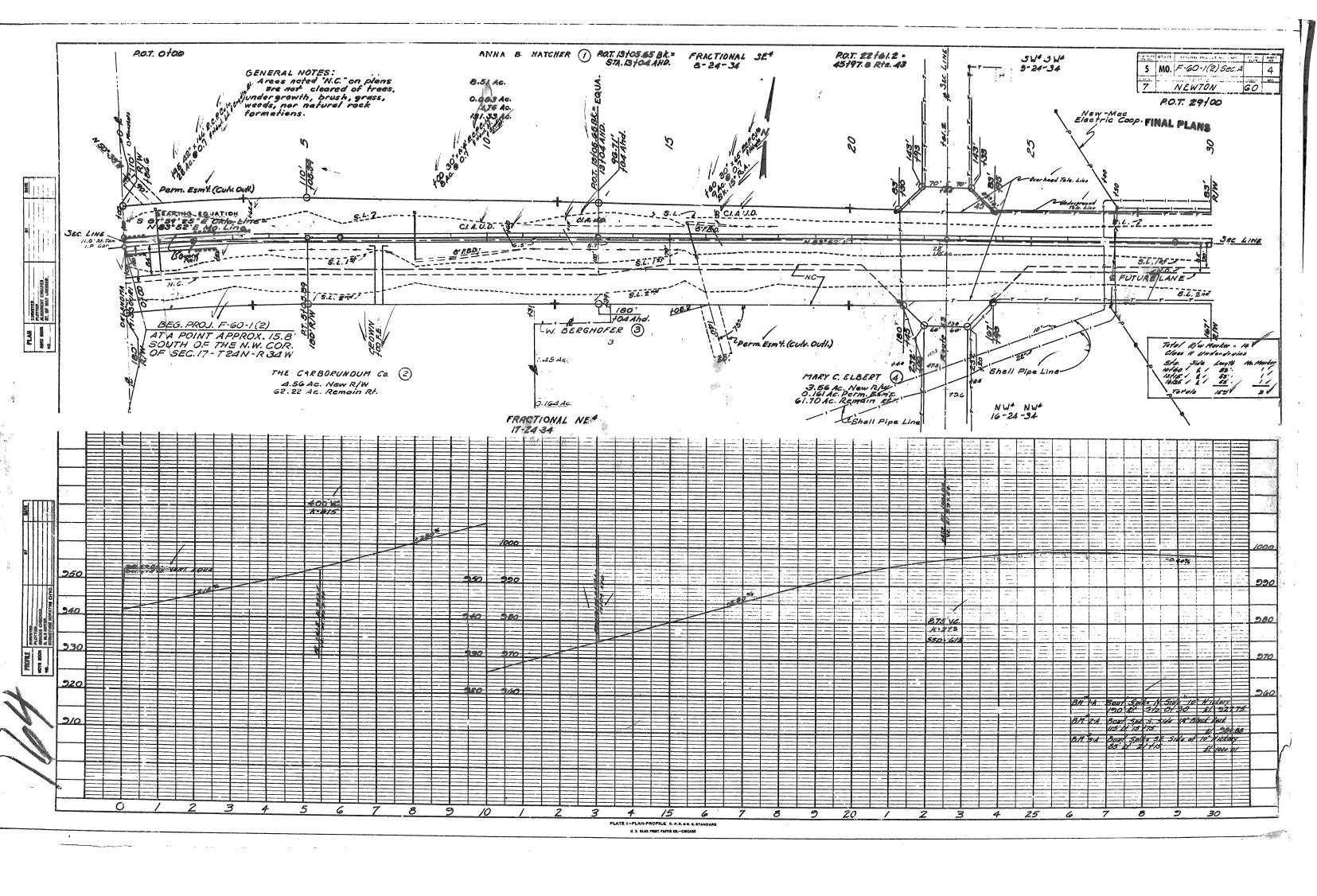
Sheet Z of Z

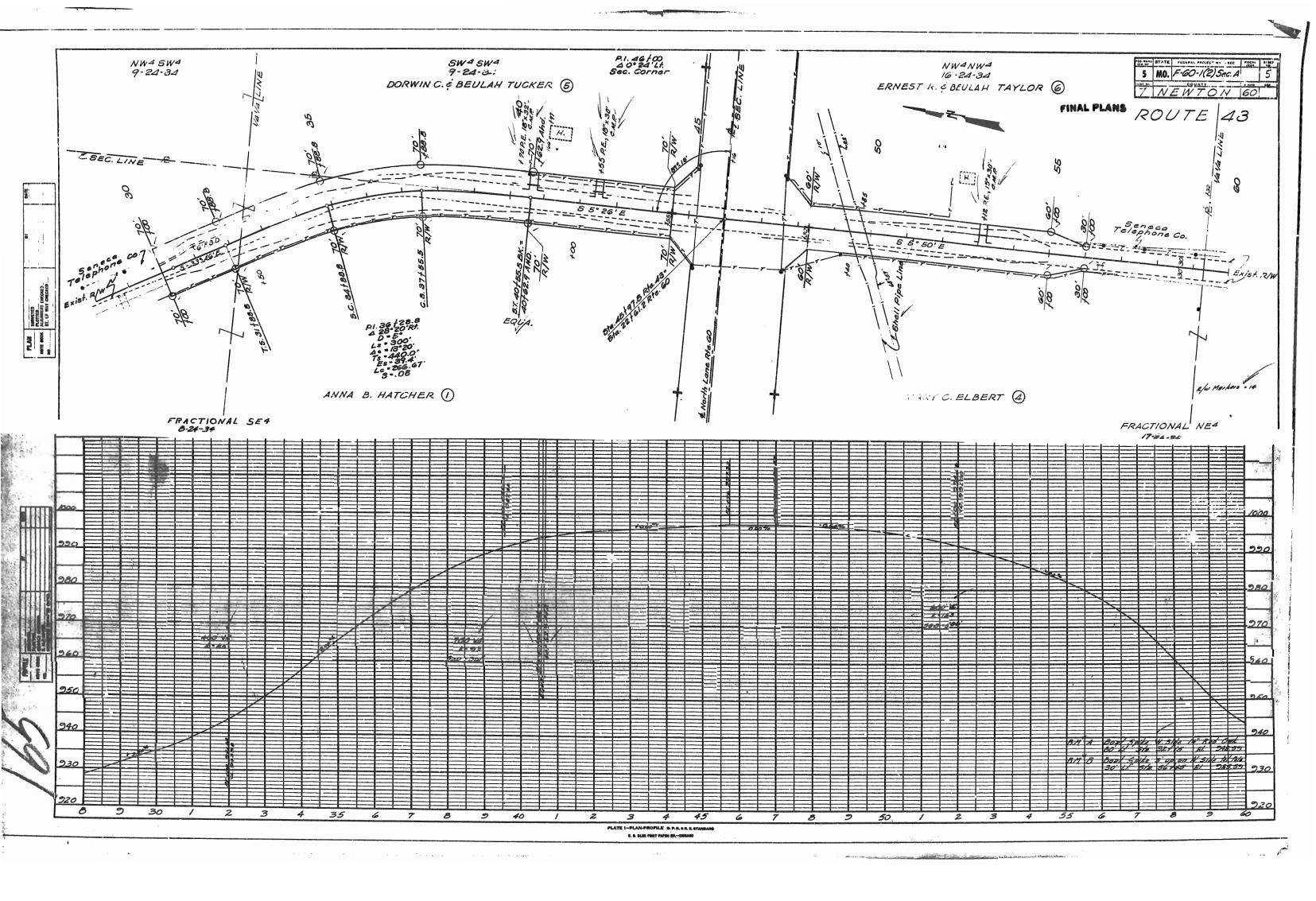
TYPE GRADING CULVERTS & 1-24 ASPHALTIC CONCRETE PAVEMENT

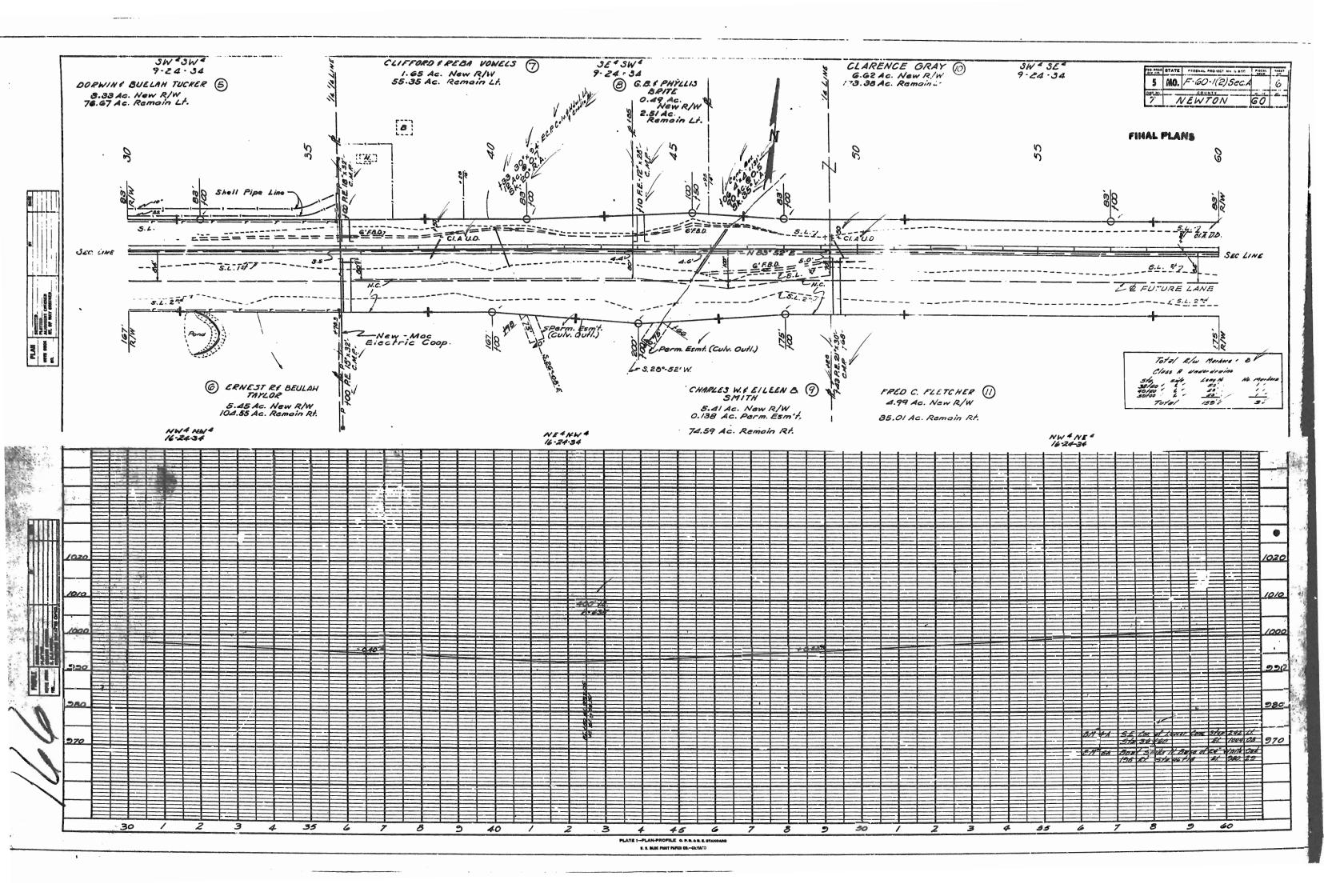
SUMMARY OF QUANTITIES

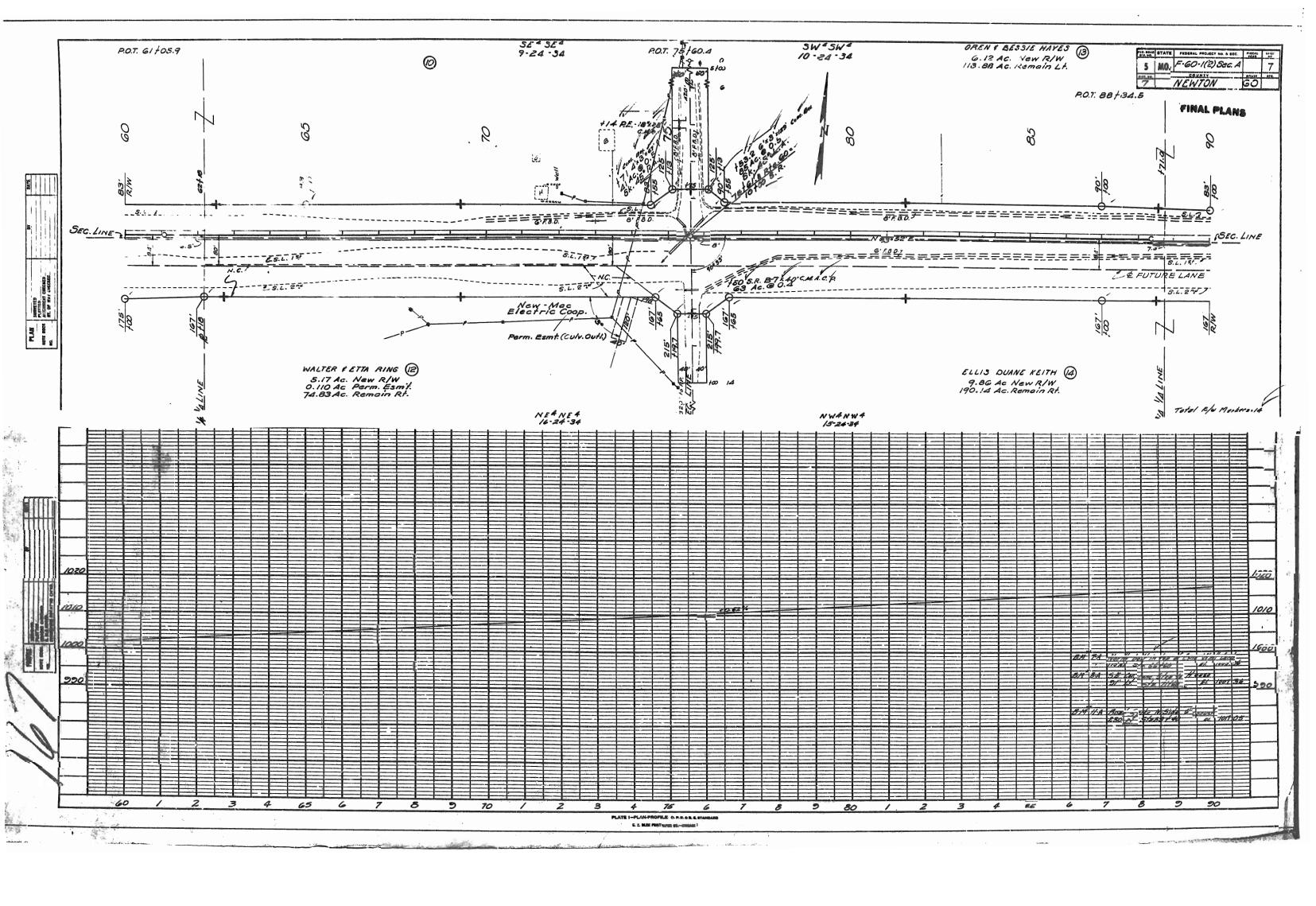
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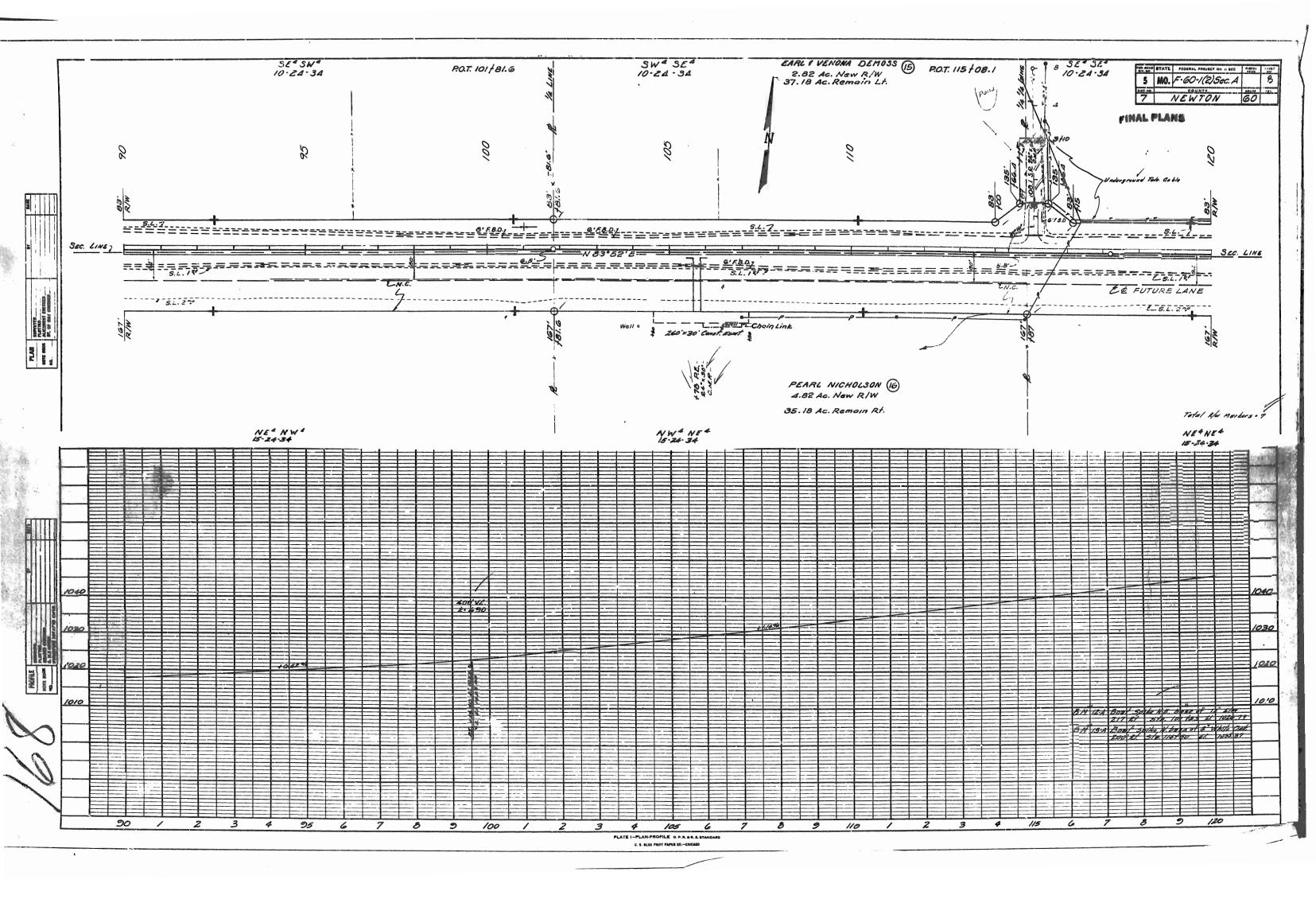


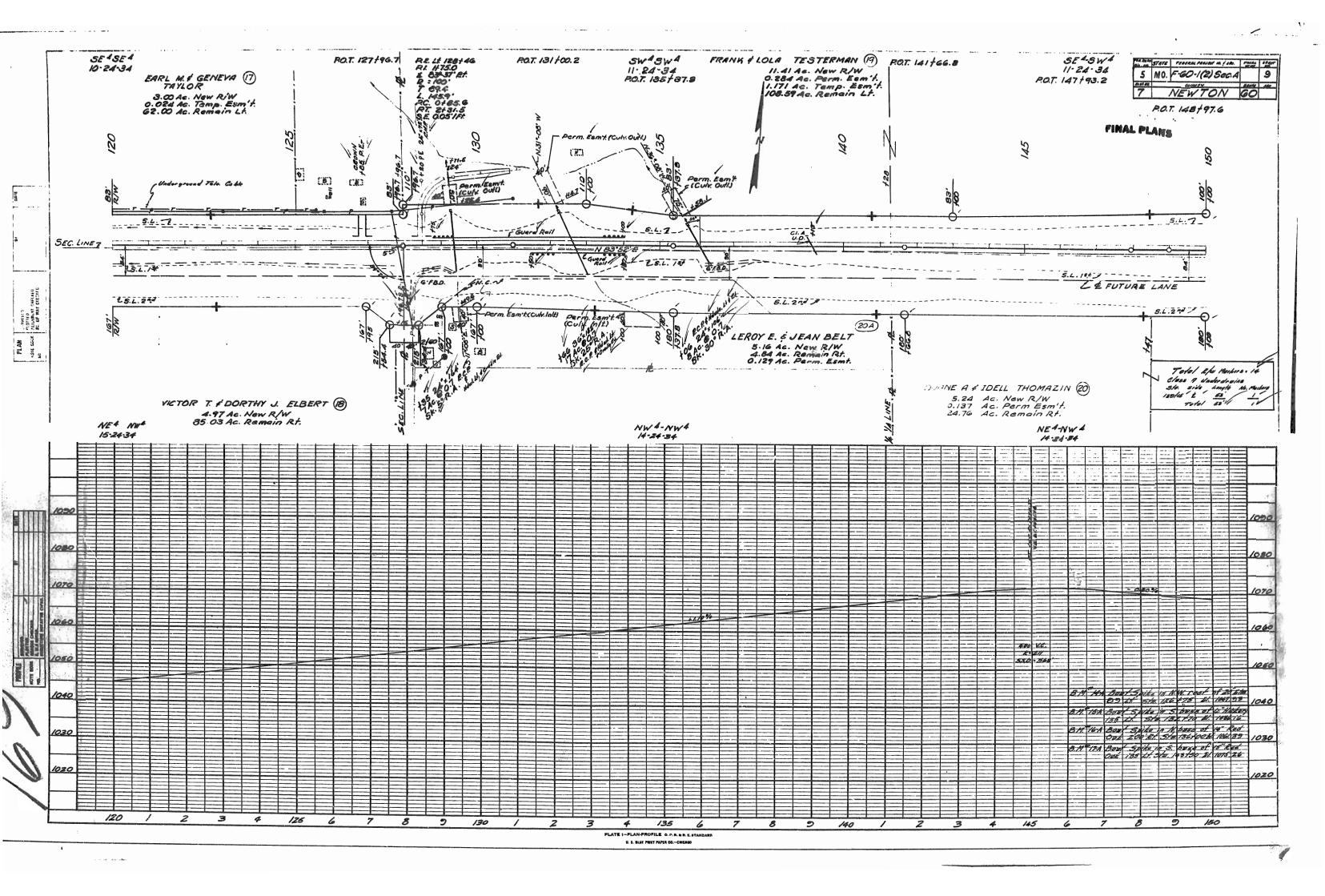


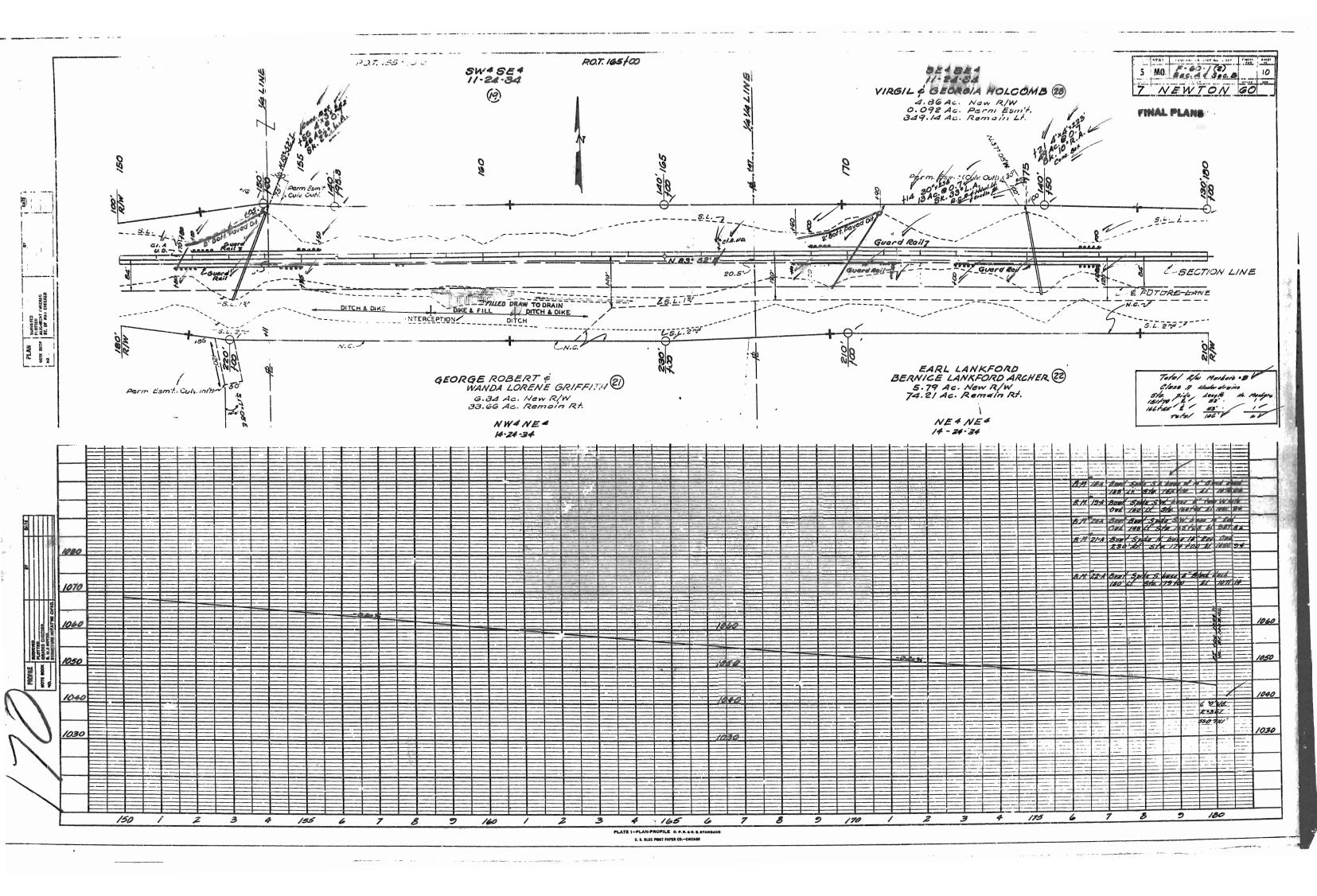


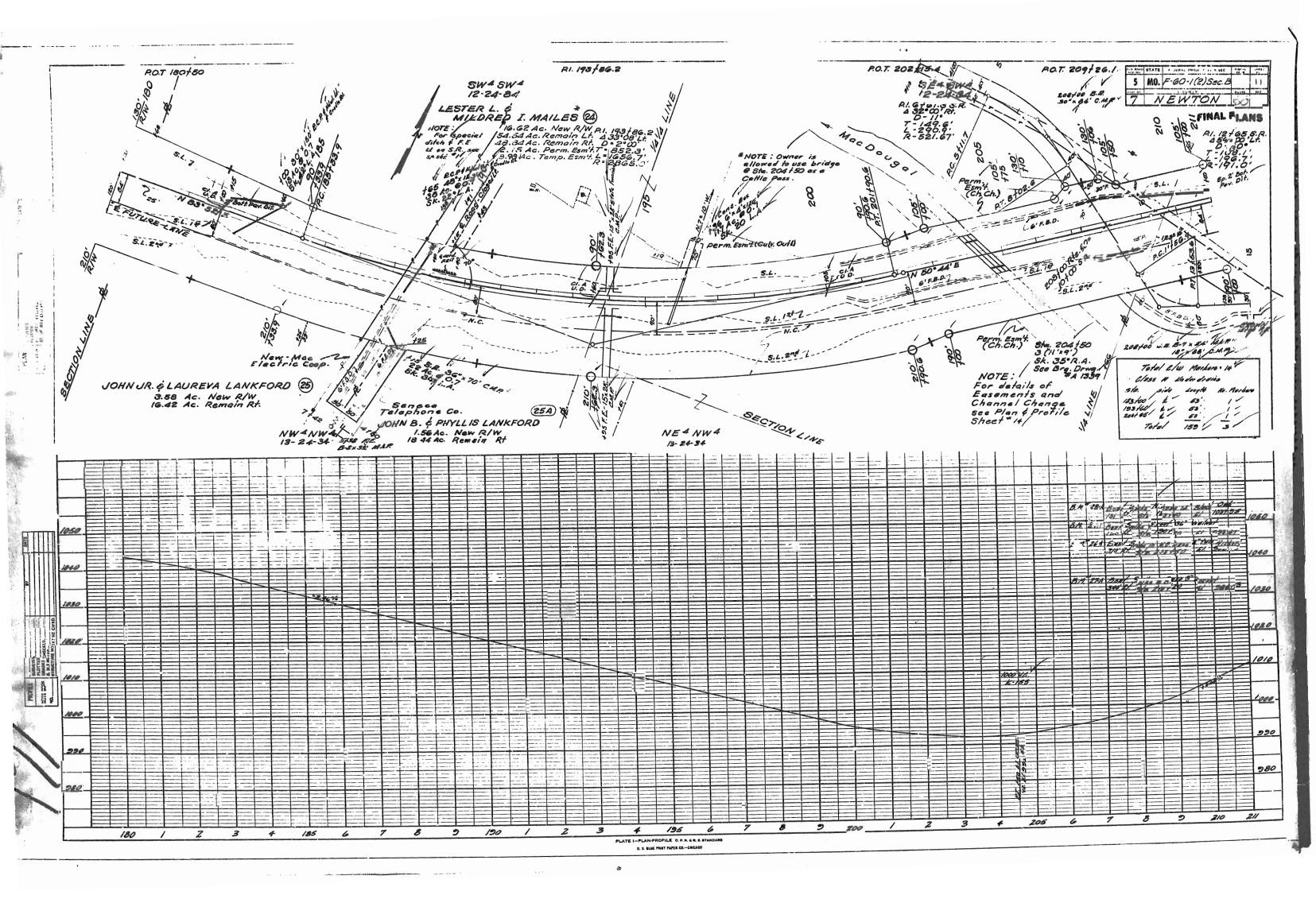


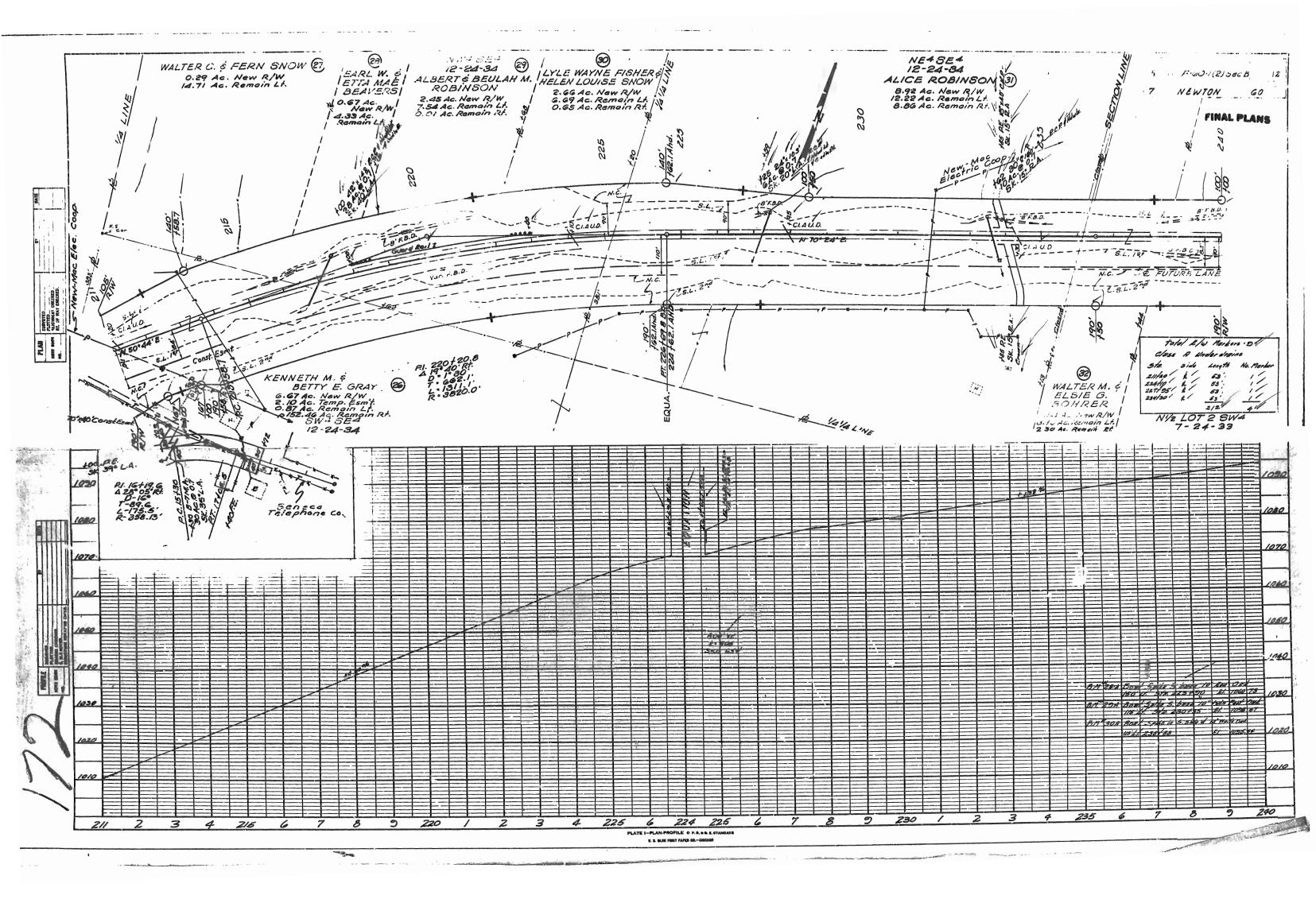


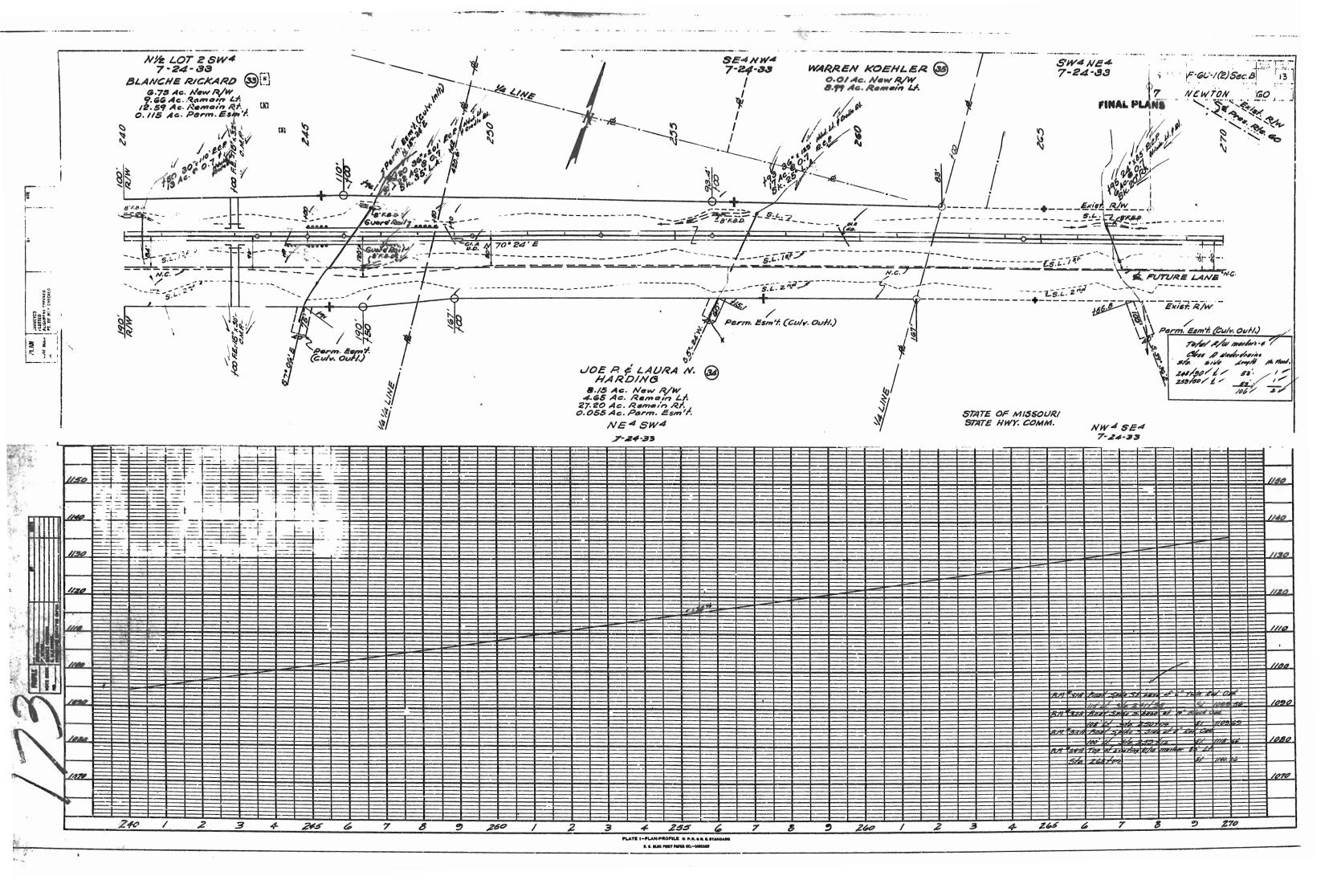


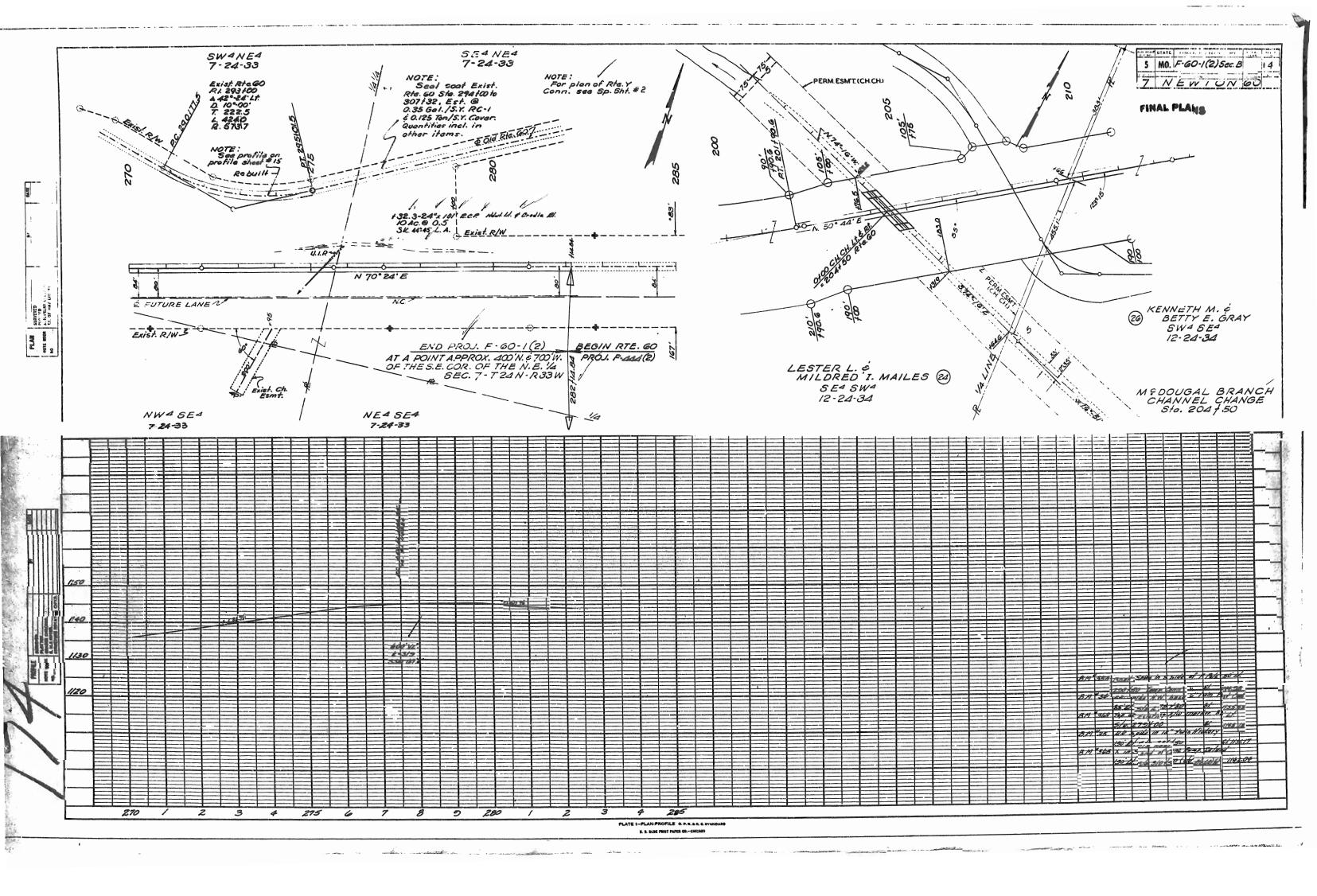


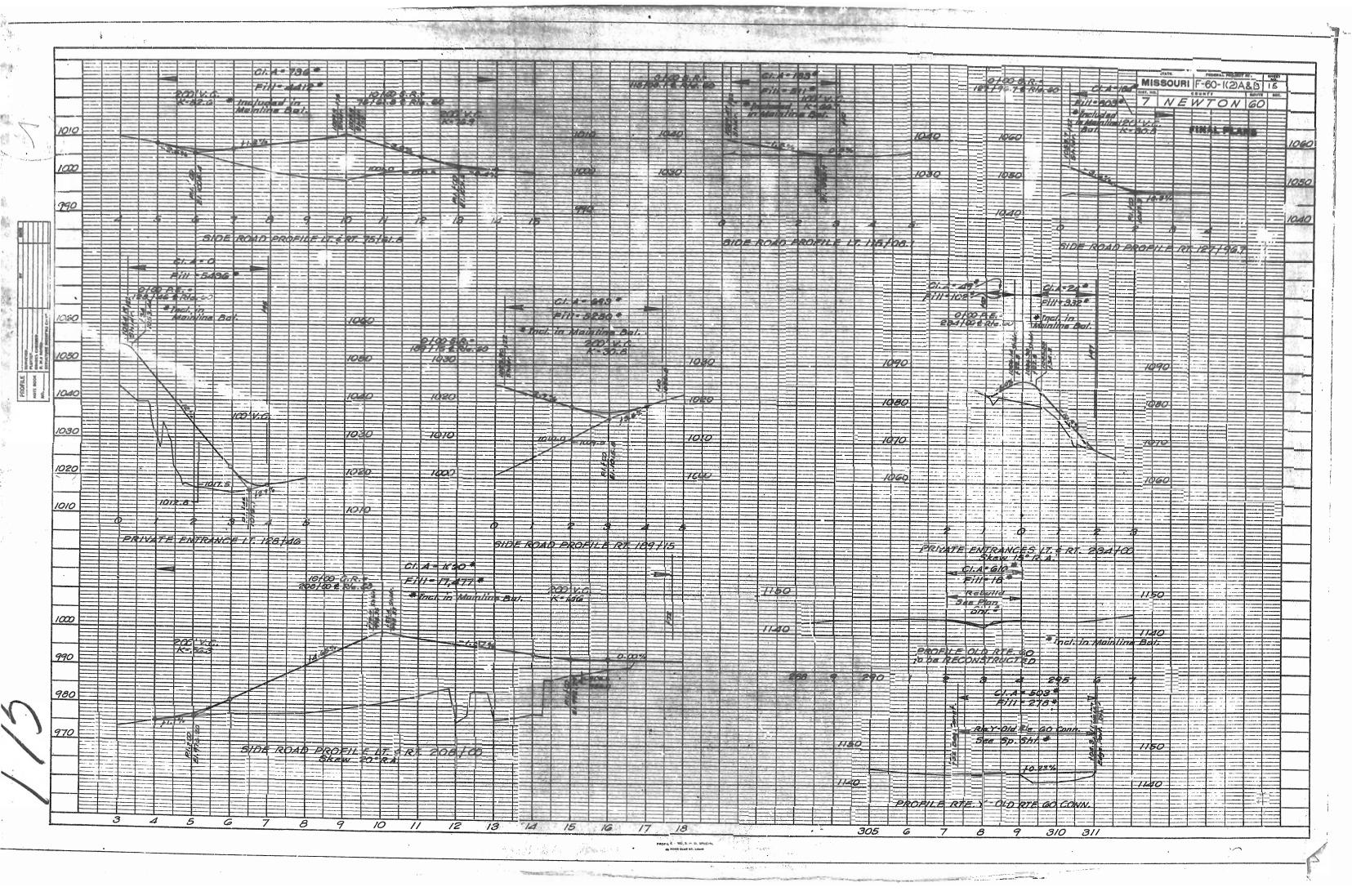


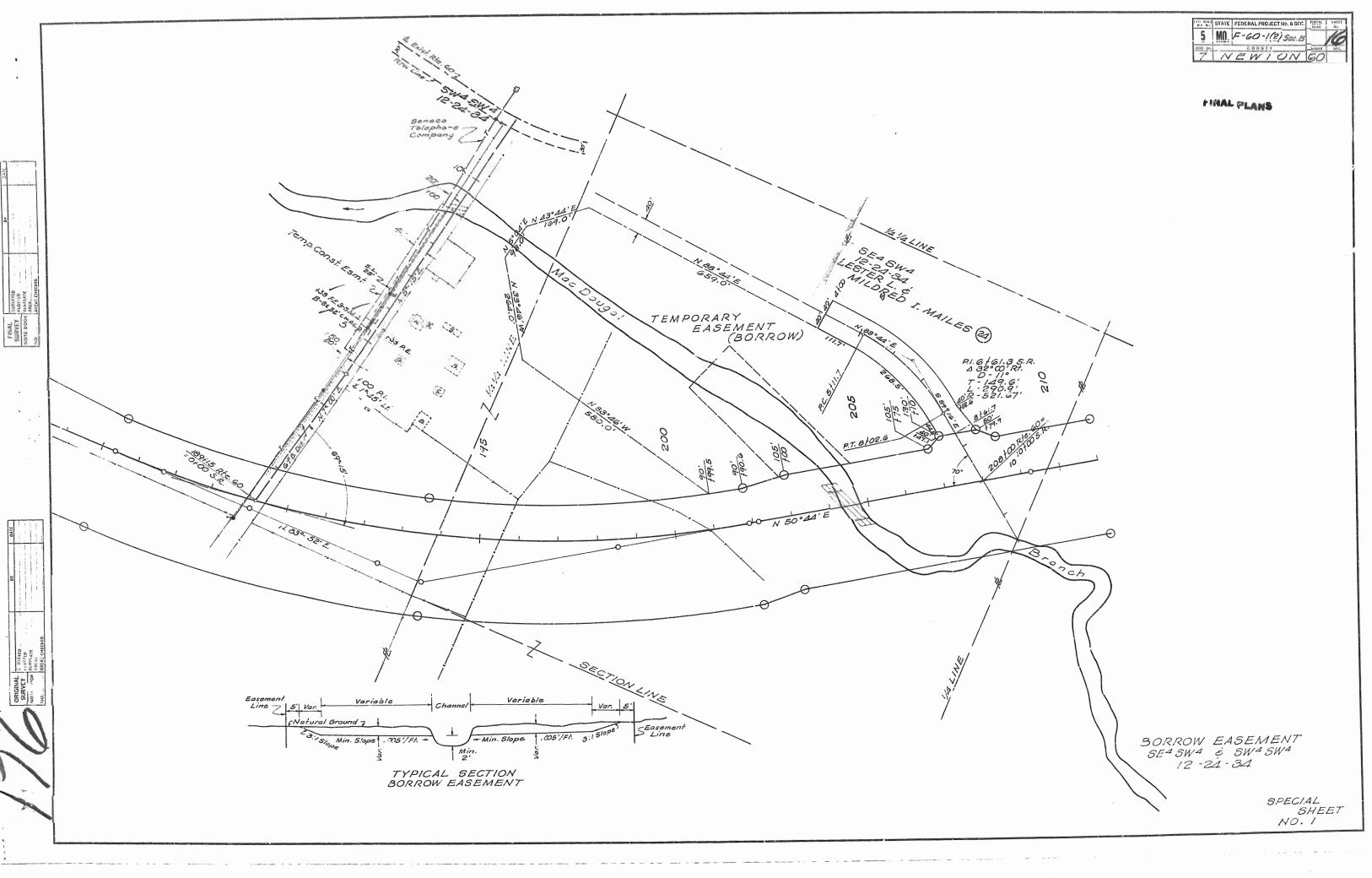




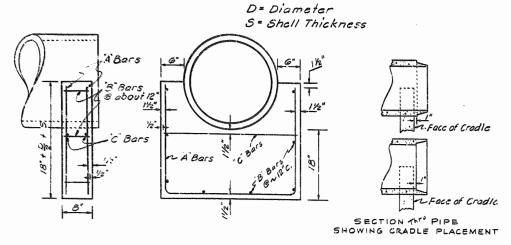








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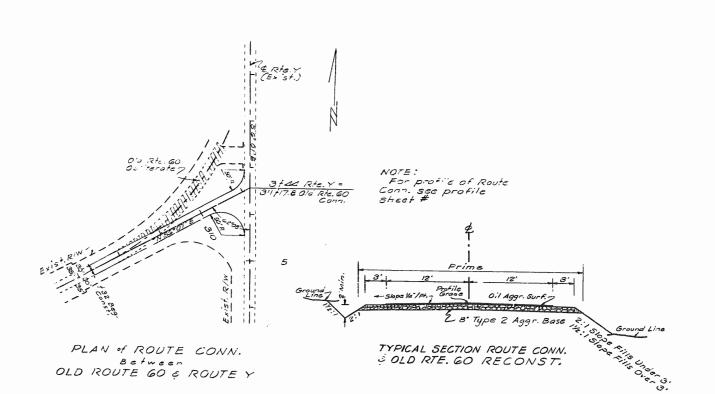
CONCRETE PIPE CRADLE
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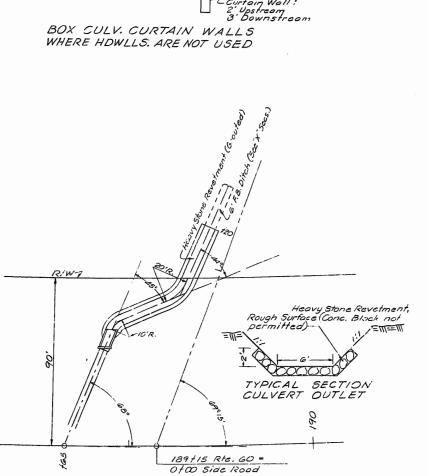
#### CONCRETE CRADLE QUANTITIES

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42"	<i>]]]]</i>	.28	27	2	137°	12	7"	2	60
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46'	777	. 33	29	2	151	13	7"	2	67

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FINAL P'ANS





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SPECIAL SHEET NO. 2

### LIST OF STANDARD PLANS

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# Your Company Name Here This is your address Your City, State, Zip Code

Your Tagline Here

File Name: 0219_US60_MO97_August2021

Site Code: 0219 Start Date : 8/25/2021

Page No : 1

										l- All Vehicle	es (no cla	ssificatio									
			MO 97					US 60					MO 97					US 60			ļ
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06:00 AM	3	2	10	0	15	3	16	1	0	20	5	2	3	0	10	4	13	2	0	19	64
06:15 AM	3	0	6	0	9	9	17	4	0	30	2	2	1	0	5	0	29	0	0	29	73
06:30 AM	5	3	13	0	21	7	12	2	0	21	9	4	2	0	15	4	30	3	0	37	94
06:45 AM	5	7	13	0	25	13	15	6	0	34	9	6	2	0	17	2	28	7	0	37	113
Total	16	12	42	0	70	32	60	13	0	105	25	14	8	0	47	10	100	12	0	122	344
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07:00 AM	5	6	11	0	22	11	27	4	0	42	5	6	3	0	14	1	19	7	0	27	105
07:15 AM	6	4	11	0	21	15	29	3	0	47	5	6	2	0	13	3	29	8	0	40	121
07:30 AM	2	3	13	0	18	8	20	4	0	32	6	10	1	0	17	1	26	10	0	37	104
07:45 AM	5	5	18	0	28	7	22	6	0	35	4	5	2	0	11	0	31	12	0	43	117_
Total	18	18	53	0	89	41	98	17	0	156	20	27	8	0	55	5	105	37	0	147	447
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08:00 AM	8	9	16	0	33	6	14	10	0	30	2	4	2	0	8	1	24	5	0	30	101
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08:30 AM	2	4	12	0	18	6	27	5	0	38	9	4	0	0	13	2	29	3	0	34	103
08:45 AM	4	5_	11_	0_	20	11	33	5	0	49	3	4	3	0	10	0	25	5	0	30	109_
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09:30 AM	3	3	8	0	14	10	25	4	0	39	4	4	0	0	8	2	23	8	0	33	94
09:45 AM	2	1	9	0	12	11	27	1_	0	39	44	1_	2	0	7	4	24	1_	0	29	87
Total	17	14	33	0	64	41	110	8	0	159	17	11	6	0	34	13	102	13	0	128	385
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10:15 AM	3	3	8	0	14	6	33	2	0	41	8	6	4	0	18	4	35	4	0	43	116
10:30 AM	5	6	10	0	21	14	20	4	0	38	4	2	2	0	8	1	29	3	0	33	100
10:45 AM	2	3	6	0	11	10	40	6	0	56	5	2		0	8	2	26	2	0	30	105
Total	13	17	30	0	60	36	116	16	0	168	20	15	7	0	42	9	114	11	0	134	404
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11:00 AM	7	2	12	0	21	8	32	2	0	42	8	3	•	0	12	0	22	9	0	31	106
11:15 AM	4	4	11	0	19	7	31	8	0	46	4	6	2	0	12	2	37	7	0	46	123
11:30 AM	7	5	11	0	23	11	27	3	0	41	2	2	0	0	4	3	18	5	0	26	94
11:45 AM	33	3	8	0	14	11	29	5	0	45	6	6	2	0	14	0	25	3	0	28	101
Total	21	14	42	0	77	37	119	18	0	174	20	17	5	0	42	5	102	24	0	131	424
12:00 PM	8	3	6	0	17	7	30	6	0	43	4	2	2	0	8	1	28	4	0	33	101
12:15 PM	5	4	11	0	20	7	33	8	0	48	6	3	3	0	12	2	24	4	0	30	110
12:30 PM	6	5	11	0	22	7	32	1	0	40	2	3	3	0	8	0	36	6	0	42	112
12:45 PM	5	1	11	0	20	9	22	5	0	36	8	2	2	0	12	8	40	3	0	51	112
Total	24	16	39	0	79	30	117	20	0	167	20	10	10	0	40	11	128	<u>3</u> 17	0	156	442
TOtal	24	10	39	U	19	, 30	117	20	U	107	20	10	10	U	40	1.1	120	17	U	130	442

# Your Company Name Here This is your address Your City, State, Zip Code

Your Tagline Here

File Name: 0219_US60_MO97_August2021

Site Code: 0219 Start Date : 8/25/2021

Page No : 2

Groups Printed- All Vehicles (no classification)

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01:00 PM	3	6	11	0	20	9	29	3	0	41	6	1	1	0	•	5	36	3	0	44	113
01:15 PM	2	3	6	0	11	12	32	4	0	48	5	5	2		12	1	33	5	0	39	110
01:30 PM	4	5	4	0	13	14	27	5	0	46	4	3	2	0	9	4	30	2	0	36	104
01:45 PM	3	2	5	0	10	9	36	5	0	50	5	4	1_	0		1_	15	3	0	19	89
Total	12	16	26	0	54	44	124	17	0	185	20	13	6	0	39	11	114	13	0	138	416
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02:00 PM	5	3	11	0	19	10	41	7	0	58	4	7	3	0	14	1	31	5	0	37	128
02:15 PM	5	3	16	0	24	12	32	6	0	50	5	3	1	0	•	4	40	0	0	44	127
02:30 PM	3	3	10	0	16	10	52	1	0	63	3	3	0	-	6	3	27	3	0	33	118
02:45 PM	10	3	9	0	22	13	40	5	0	58	5	4_	4	0		0	31	0	0	31	124
Total	23	12	46	0	81	45	165	19	0	229	17	17	8	0	42	8	129	8	0	145	497
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03:15 PM	4	3	6	0	13	16	40	7	0	63	5	9	2			1	33	5	0	39	131
03:30 PM	8	6	11	0	25	11	40	10	0	61	4	8	2	0	14	3	35	2	0	40	140
03:45 PM	4	6	9	0	19	12	41	5	0	58		4	3	0		6	48	7	0	61	150
Total	22	16	39	0	77	52	164	28	0	244	15	26	9	0	50	12	155	25	0	192	563
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04:30 PM	4	7	12	0	23	14	39	7	0	60	11	4	0	-	15	3	30	8	0	41	139
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05:30 PM	13	5	13	0	31	16	47	10	0	73	7	6	4	0	17	4	38	5	0	47	168
05:45 PM	5	6	11	0	22	19	29	5	0	53	4	7	1	0		2	25	5	0	32	119
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06:45 PM	0	8	7	0	15	7	25	0	0	32	3	2	1	0		2	24	2	0	28	81
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Total %	4.4	3.8	9	0	17.2	9.5	27.4	4.3	0	41.2	4.3	3.9	1.6	0	9.8	2	25.8	4.1	0	31.9	Ì
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# Your Company Name Here This is your address Your City, State, Zip Code

Your Tagline Here

File Name: 0216_US60_Hammer_August2021

Site Code : 0216 Start Date : 8/25/2021

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Groups Printed- All Vehicles (no classification)

									<u>s Printed-</u>	<u>- All Vehicle</u>	es (no cla:	<u>ssificatior</u>	n)								
			Hammei	r				US 60					Hammer					US 60			
		S	outhbou	nd			W	estbour/	nd			N	orthboun	ıd			Е	astbound	d		
Start Time	Right	Thru			App. Total	Right	Thru			App. Total	Right	Thru		U-Turn	App. Total	Right	Thru			App. Total	Int. Total
06:00 AM	1	2	3	0	6	1	28	1	0	30	4	0	0	0	4	0	35	0	0	35	75
06:15 AM	0	0	1	0	1	0	35	0	0	35	5	1	0	0	6	0	47	0	0	47	89
06:30 AM	1	0	1	0	2	1	44	2	0	47	5	2	1	0	8	0	69	1	0	70	127
06:45 AM	1	1	1	0	3	2	40	4	0	46	8	2	2	0	12	1	64	1	0	66	127
Total	3	3	6	0	12	4	147	7	0	158	22	5	3	0	30	1	215	2	0	218	418
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07:00 AM	3	0	1	0	4	2	54	7	0	63	8	0	2	0	10	1	65	2	0	68	145
07:15 AM	1	1	4	0	6	0	50	4	0	54	10	5	2	0	17	0	61	4	0	65	142
07:30 AM	2	0	7	0	9	2	51	1	0	54	9	7	1	0	17	0	75	2	0	77	157
07:45 AM	1	3	3	0	7	4	42	6	0	52	11	1	4	0	16	3	84	1	0	88	163
Total	7	4	15	0	26	8	197	18	0	223	38	13	9	0	60	4	285	9	0	298	607
08:00 AM	0	2	1	0	3	1	50	8	0	59	10	2	0	0	12	2	56	0	0	58	132
08:15 AM	0	1	1	0	2	1	34	5	0	40	8	3	1	0	12	0	52	1	0	53	107
08:30 AM	0	3	0	0	3	1	52	5	0	58	5	2	1	0	8	0	27	1	0	28	97
08:45 AM	11	2	2	0	5	2	36	3	0	41	5	1	0	0	6	2	51	0	0	53	105
Total	1	8	4	0	13	5	172	21	0	198	28	8	2	0	38	4	186	2	0	192	441
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09:00 AM	1	0	2	0	3	2	54	3	0	59	7	3	2	0	12	2	52	0	0	54	128
09:15 AM	0	2	1	0	3	1	57	5	0	63	3	2	2	0	7	1	52	1	0	54	127
09:30 AM	0	2	1	0	3	1	44	7	0	52	6	1	0	0	7	1	50	0	0	51	113
09:45 AM	1	2	2	0	5	1	44	3	0	48	7	0	0	0	7	1	64	0	0	65	125
Total	2	6	6	0	14	5	199	18	0	222	23	6	4	0	33	5	218	1	0	224	493
1										i					1					1	
10:00 AM	0	0	0	0	0	0	45	2	0	47	3	3	0	0	6	1	49	0	0	50	103
10:15 AM	0	0	1	0	1	1	68	1	0	70	2	1	0	0	3	1	51	1	0	53	127
10:30 AM	0	1	3	0	4	0	44	4	0	48	2	2	0	0	4	0	62	0	0	62	118
10:45 AM	0	1	0	0	1	0	71	2	0	73	5	0	1	0	6	1	41	0	0	42	122
Total	0	2	4	0	6	1	228	9	0	238	12	6	1	0	19	3	203	1	0	207	470
1					1					1					1					1	
11:00 AM	1	1	0	0	2	1	55	4	0	60	7	1	2	0	10	3	44	1	0	48	120
11:15 AM	0	4	0	0	4	0	62	4	0	66	5	2	0	0	7	0	54	0	0	54	131
11:30 AM	1	2	0	0	3	0	61	4	0	65	1	0	0	0	1	0	49	0	0	49	118
11:45 AM	2	0	1_	0	3	1_	68	6	0	75	8	3	4	0	15	0	52	1_	0	53	146
Total	4	7	1	0	12	2	246	18	0	266	21	6	6	0	33	3	199	2	0	204	515
40.00 511		•		_	_ 1	,				<b>-</b> 1	•	•		•	_ 1	•			_		407
12:00 PM	0	2	1	0	3	1	68	9	0	78	2	0	1	0	3	0	53	0	0	53	137
12:15 PM	0	3	0	0	3	3	60	9	0	72	3	1	1	0	5	0	60	0	0	60	140
12:30 PM	0	2	2	0	4	1	61	4	0	66	9	1	2	0	12	0	60	1	0	61	143
12:45 PM	2	3	1	0	6	2	60	5	0	67	7	0	0	0	7	11	47	0	0	48	128_
Total	2	10	4	0	16	7	249	27	0	283	21	2	4	0	27	1	220	1	0	222	548

### Your Company Name Here

This is your address Your City, State, Zip Code *Your Tagline Here* 

File Name: 0216_US60_Hammer_August2021

Site Code : 0216 Start Date : 8/25/2021

Page No : 2

Groups Printed- All Vehicles (no classification)

									s Printed-	All venicie	es (no cia										
			Hamme	r				US 60					Hammer					US 60			
		S	outhbou	nd			V	estbour/	nd			N	orthboun	d			Е	astboun	d		
Start Time	Right	Thru	Left	U-Turn	App. Total	Right	Thru			App. Total	Right	Thru			App. Total	Right	Thru			App. Total	Int. Total
01:00 PM	0	1	0	0	1	0	61	4	0	65	4	1	0	0	5	0	48	0	0	48	119
01:15 PM	0	2	1	0	3	3	54	4	0	61	4	1	1	0	6	0	61	0	0	61	131
01:30 PM	0	2	3	0	5	1	65	5	0	71	5	0	2	0	7	1	49	0	0	50	133
01:45 PM	1	1	0	0	2	2	61	6	0	69	5	1	1	0	7	1	62	0	0	63	141
Total	1	6	4	0	11	6	241	19	0	266	18	3	4	0	25	2	220	0	0	222	524
,					,			_			-									,	_
02:00 PM	0	1	0	0	1	2	74	7	0	83	5	2	1	0	8	2	57	0	0	59	151
02:15 PM	0	0	2	0	2	1	76	3	0	80	6	1	1	0	8	1	58	1	0	60	150
02:30 PM	1	5	0	0	6	2	74	5	0	81	9	5	1	0	15	1	75	0	0	76	178
02:45 PM	1	0	0	0	1	3	73	4	0	80	9	2	0	0	11	1	50	1	0	52	144
Total	2	6	2	0	10	8	297	19	0	324	29	10	3	0	42	5	240	2	0	247	623
					1					i i					1					í	
03:00 PM	1	5	1	0	7	2	61	4	0	67	4	1	0	0	5	0	66	0	0	66	145
03:15 PM	1	4	0	0	5	3	67	8	0	78	9	3	0	0	12	1	63	1	0	65	160
03:30 PM	1	2	0	0	3	4	88	13	0	105	11	1	0	0	12	0	68	0	0	68	188
03:45 PM	2	2	1	0	5	5	94	11	0	110	5	2	0	0	7	2	54	1	0	57	179
Total	5	13	2	0	20	14	310	36	0	360	29	7	0	0	36	3	251	2	0	256	672
					1					1					1						
04:00 PM	3	4	0	0	7	3	95	10	0	108	7	1	0	0	8	2	99	0	0	101	224
04:15 PM	1	3	4	0	8	5	90	8	0	103	6	2	1	0	9	0	63	1	0	64	184
04:30 PM	0	1	1	0	2	2	95	13	0	110	9	7	0	0	16	2	96	3	0	101	229
04:45 PM	0	2	0	0	2	3	76	6	0	85	11	2	2	0	15	1	83	1	0	85	187
Total	4	10	5	0	19	13	356	37	0	406	33	12	3	0	48	5	341	5	0	351	824
05 00 DM		•		•	ا م	_	07	4.0	•	1					40	•	00	•		00	400
05:00 PM	0	2	1	0	3	7	97	10	0	114	9	1	0	0	10	0	60	3	0	63	190
05:15 PM	1	4	2	0	7	3	94	16	0	113	10	7	1	0	18	0	81	2	0	83	221
05:30 PM	0	2	1	0	3	2	80	11	0	93	4	4	1	0	9	2	57	0	0	59	164
05:45 PM	1	1	0	0	2	1	84	8	0	93	5	1	0	0	6	0	67	1	0	68	169
Total	2	9	4	0	15	13	355	45	0	413	28	13	2	0	43	2	265	6	0	273	744
06:00 PM	0	2	^	0	2	2	67	6	0	76	15	2	0	0	17	4	62	4	0	64	159
	1		0	0	2	3		4	0		15 7	0	4	0	1	1		1	0	-	
06:15 PM		1	0	0	2	2	78 64	4 7	-	84		•	1	•	8	0	65	1	0	66	160
06:30 PM	0	2	2	0	4	2	61	•	0	70	5	3	0	0	8	0	51	1	0	52	134
06:45 PM	1	3	1	0	5	1	51	3	0	55	5_	1	0	0	6	1	60	0	0	61	127
Total	2	8	3	0	13	8	257	20	0	285	32	6	1	0	39	2	238	3	0	243	580
Grand Total	35	92	60	0	187	94	3254	294	0	3642	334	97	42	0	473	40	3081	36	0	3157	7459
Apprch %	18.7	49.2	32.1	0	107	2.6	89.3	8.1	0	3042	70.6	20.5	8.9	0	713	1.3	97.6	1.1	0	3137	1400
Total %	0.5	1.2	0.8	0	2.5	1.3	43.6	3.9	0	48.8	4.5	1.3	0.6	0	6.3	0.5	41.3	0.5	0	42.3	
i Utal 70	0.5	1.4	0.0	U	2.0	1.3	45.0	J.J	U	40.0	4.5	1.0	0.0	U	0.5	0.5	41.5	0.0	U	42.3	



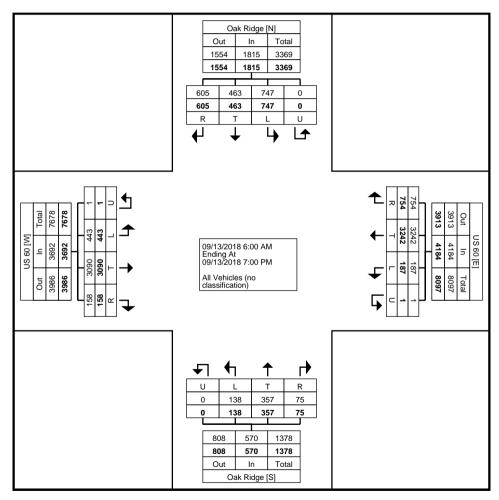
Count Name: US 60 at Oak Ridge Neosho Site Code: 7GST Start Date: 09/13/2018 Page No: 1

#### **Turning Movement Data**

1					Í				9			4.4									1
			Oak Ridge					US 60					Oak Ridge					US 60			
Start Time			Southbound					Westbound					Northbound					Eastbound			
	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Int. Total
6:00 AM	4	3	5	0	12	3	35	0	0	38	0	0	3	0	3	1	22	2	0	25	78
6:15 AM	7	3	12	0	22	7	43	5	0	55	0	2	1	0	3	2	20	5	0	27	107
6:30 AM	3	5	12	0	20	12	55	2	0	69	0	2	1	0	3	2	27	9	0	38	130
6:45 AM	10	18	5	0	33	15	63	5	0	83	1	6	0	0	7	2	34	2	0	38	161
Hourly Total	24	29	34	0	87	37	196	12	0	245	1	10	5	0	16	7	103	18	0	128	476
7:00 AM	10	4	15	0	29	20	62	5	0	87	1	7	5	0	13	0	31	4	0	35	164
7:15 AM	15	8	17	0	40	23	90	5	0	118	0	9	5	0	14	2	57	5	0	64	236
7:30 AM	21	8	14	0	43	22	80	6	0	108	0	8	2	0	10	2	50	3	0	55	216
7:45 AM	17	15	13	0	45	16	86	11	0	113	0	7	0	0	7	4	60	9	0	73	238
Hourly Total	63	35	59	0	157	81	318	27	0	426	1	31	12	0	44	8	198	21	0	227	854
8:00 AM	9	12	11	0	32	15	62	11	0	88	3	7	1	0	11	10	60	5	0	75	206
8:15 AM	8	6	7	0	21	14	53	1	0	68	2	2	8	0	12	9	45	4	0	58	159
8:30 AM	8	7	7	0	22	11	49	4	0	64	0	7	0	0	7	1	41	8	0	50	143
8:45 AM	7	10	12	0	29	15	44	6	0	65	1	2	4	0	7	5	44	3	0	52	153
Hourly Total	32	35	37	0	104	55	208	22	0	285	6	18	13	0	37	25	190	20	0	235	661
9:00 AM	5	3	9	0	17	10	45	4	0	59	0	2	2	0	4	4	33	6	0	43	123
9:15 AM	10	6	9	0	25	9	59	2	0	70	0	5	0	0	5	1	48	8	0	57	157
9:30 AM	4	7	10	0	21	8	45	1	0	54	0	6	2	0	8	4	53	5	0	62	145
9:45 AM	13	8	3	0	24	14	46	1	0	61	0	8	0	0	8	1	48	9	0	58	151
Hourly Total	32	24	31	0	87	41	195	8	0	244	0	21	4	0	25	10	182	28	0	220	576
10:00 AM	2	6	8	0	16	5	62	3	0	70	0	3	1	0	4	3	46	7	0	56	146
10:15 AM	13	5	6	0	24	12	54	2	0	68	0	3	0	0	3	1	37	9	1	48	143
10:30 AM	10	5	10	0	25	7	52	2	0	61	0	8	3	0	11	0	63	5	0	68	165
10:45 AM	9	13	12	0	34	9	56	7	0	72	0	7	2	0	9	3	35	6	0	44	159
Hourly Total	34	29	36	0	99	33	224	14	0	271	0	21	6	0	27	7	181	27	1	216	613
11:00 AM	8	8	9	0	25	9	62	1	0	72	2	6	4	0	12	0	52	11	0	63	172
11:15 AM	8	7	13	0	28	26	53	3	0	82	1	9	3	0	13	1	46	7	0	54	177
11:30 AM	11	11	20	0	42	12	50	4	1	67	0	8	0	0	8	2	56	7	0	65	182
11:45 AM	11	10	20	0	41	16	49	6	0	71	0	8	1	0	9	4	35	5	0	44	165
Hourly Total	38	36	62	0	136	63	214	14	1	292	3	31	8	0	42	7	189	30	0	226	696
12:00 PM	6	9	9	0	24	16	44	2	0	62	2	4	5	0	11	2	63	8	0	73	170
12:15 PM	7	16	15	0	38	9	60	2	0	71	0	11	2	0	13	2	63	3	0	68	190
12:30 PM	10	14	13	0	37	13	55	1	0	69	1	6	2	0	9	3	59	6	0	68	183
12:45 PM	11	9	9	0	29	6	53	3	0	62	1	5	3	0	9	6	63	9	0	78	178
Hourly Total	34	48	46	0	128	44	212	8	0	264	4	26	12	0	42	13	248	26	0	287	721
1:00 PM	11	7	12	0	30	7	59	2	0	68	4	6	2	0	12	4	67	8	0	79	189
1:15 PM	12	4	16	0	32	9	46	1	0	56	4	6	2	0	12	2	51	14	0	67	167
1:30 PM	13	8	18	0	39	10	56	3	0	69	1	3	5	0	9	4	52	9	0	65	182
·																					

1:45 PM	14	12	13	0	39	12	70	3	0	85	3	3	0	0	6	3	62	4	0	69	199
Hourly Total	50	31	59	0	140	38	231	9	0	278	12	18	9	0	39	13	232	35	0	280	737
2:00 PM	11	6	19	0	36	15	71	3	0	89	1	10	1	0	12	3	66	8	0	77	214
2:15 PM	9	7	15	0	31	5	49	3	0	57	0	3	3	0	6	4	59	6	0	69	163
2:30 PM	10	9	10	0	29	22	64	2	0	88	2	5	0	0	. 7	3	56	7	0	66	190
2:45 PM	10	15	11	0	36	13	61	4	0	78	3	15	3	0	21	2	62	7	0	71	206
Hourly Total	40	37	55	0	132	55	245	12	0	312	6	33	7	0	46	12	243	28	0	283	773
3:00 PM	10	11	18	0	39	19	63	3	0	85	2	9	3	0	14	7	59	13	0	79	217
3:15 PM	32	22	29	0	83	22	63	4	0	89	3	8	6	0	17	8	84	9	0	101	290
3:30 PM	23	8	27	0	58	36	81	3	0	120	10	28	8	0	46	3	92	11	0	106	330
3:45 PM	16	16	15	0	47	27	76	7	0	110	5	8	9	0	22	5	87	13	0	105	284
Hourly Total	81	57	89	0	227	104	283	17	0	404	20	53	26	0	99	23	322	46	0	391	1121
4:00 PM	12	9	13	0	34	19	74	3	0	96	4	7	4	0	15	3	82	13	0	98	243
4:15 PM	17	12	18	0	47	17	81	2	0	100	3	13	3	0	19	2	105	7	0	114	280
4:30 PM	15	9	21	0	45	17	75	5	0	97	2	8	2	0	12	2	95	16	0	113	267
4:45 PM	11	8	22	0	41	14	83	6	0	103	2	15	6	0	23	1	98	14	0	113	280
Hourly Total	55	38	74	0	167	67	313	16	0	396	11	43	15	0	69	8	380	50	0	438	1070
5:00 PM	23	10	36	0	69	24	96	4	0	124	1	8	8	0	17	2	87	16	0	105	315
5:15 PM	23	11	21	0	55	23	92	3	0	118	1	8	2	0	11	4	94	18	0	116	300
5:30 PM	15	8	22	0	45	27	84	7	0	118	1	10	4	0	15	6	87	14	0	107	285
5:45 PM	17	11	20	0	48	23	74	2	0	99	1	8	2	0	11	5	72	16	0	93	251
Hourly Total	78	40	99	0	217	97	346	16	0	459	4	34	16	0	54	17	340	64	0	421	1151
6:00 PM	8	10	21	0	39	9	75	1	0	85	4	7	0	0	11	2	86	18	0	106	241
6:15 PM	9	3	12	0	24	6	51	5	0	62	1	2	3	0	6	3	74	8	0	85	177
6:30 PM	16	6	21	0	43	11	77	2	0	90	1	4	0	0	5	1	63	11	0	75	213
6:45 PM	11	. 5	12	0	28	13	54	4	0	71	1	5	2	0	. 8	2	59	13	0	74	181
Hourly Total	44	24	66	0	134	39	257	12	0	308	7	18	5	0	30	8	282	50	0	340	812
Grand Total	605	463	747	0	1815	754	3242	187	1	4184	75	357	138	0	570	158	3090	443	1	3692	10261
Approach %	33.3	25.5	41.2	0.0	-	18.0	77.5	4.5	0.0	-	13.2	62.6	24.2	0.0	-	4.3	83.7	12.0	0.0	-	-
Total %	5.9	4.5	7.3	0.0	17.7	7.3	31.6	1.8	0.0	40.8	0.7	3.5	1.3	0.0	5.6	1.5	30.1	4.3	0.0	36.0	-
All Vehicles (no classification)	605	463	747	0	1815	754	3242	187	1	4184	75	357	138	0	570	158	3090	443	1	3692	10261
% All Vehicles (no classification)	100.0	100.0	100.0	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0





**Turning Movement Data Plot** 

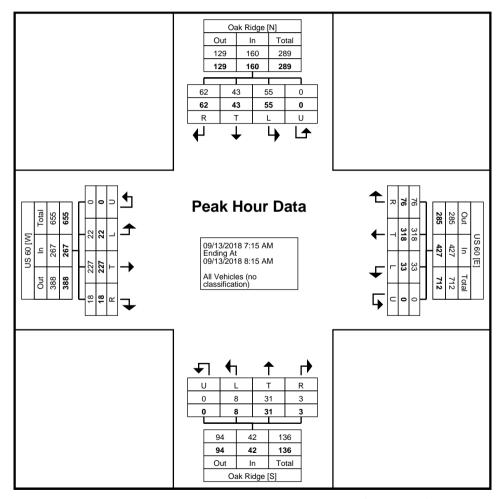


Count Name: US 60 at Oak Ridge Neosho Site Code: 7GST Start Date: 09/13/2018 Page No: 4

#### Turning Movement Peak Hour Data (7:15 AM)

								,	,,,,,	· oan	ייסטו ב	ala (1		'/							ı
			Oak Ridge					US 60					Oak Ridge					US 60			
Start Time			Southbound	i				Westbound					Northbound	I				Eastbound			
Start Time	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Int. Total
7:15 AM	15	8	17	0	40	23	90	5	0	118	0	9	5	0	14	2	57	5	0	64	236
7:30 AM	21	8	14	0	43	22	80	6	0	108	0	8	2	0	10	2	50	3	0	55	216
7:45 AM	17	15	13	0	45	16	86	11	0	113	0	7	0	0	7	4	60	9	0	73	238
8:00 AM	9	12	11	0	32	15	62	11	0	88	3	7	1	0	11	10	60	5	0	75	206
Total	62	43	55	0	160	76	318	33	0	427	3	31	8	0	42	18	227	22	0	267	896
Approach %	38.8	26.9	34.4	0.0	-	17.8	74.5	7.7	0.0	-	7.1	73.8	19.0	0.0	-	6.7	85.0	8.2	0.0	-	-
Total %	6.9	4.8	6.1	0.0	17.9	8.5	35.5	3.7	0.0	47.7	0.3	3.5	0.9	0.0	4.7	2.0	25.3	2.5	0.0	29.8	-
PHF	0.738	0.717	0.809	0.000	0.889	0.826	0.883	0.750	0.000	0.905	0.250	0.861	0.400	0.000	0.750	0.450	0.946	0.611	0.000	0.890	0.941
All Vehicles (no classification)	62	43	55	0	160	76	318	33	0	427	3	31	8	0	42	18	227	22	0	267	896
% All Vehicles (no classification)	100.0	100.0	100.0	<u>-</u>	100.0	100.0	100.0	100.0	-	100.0	100.0	100.0	100.0	<u>-</u>	100.0	100.0	100.0	100.0	-	100.0	100.0





Turning Movement Peak Hour Data Plot (7:15 AM)

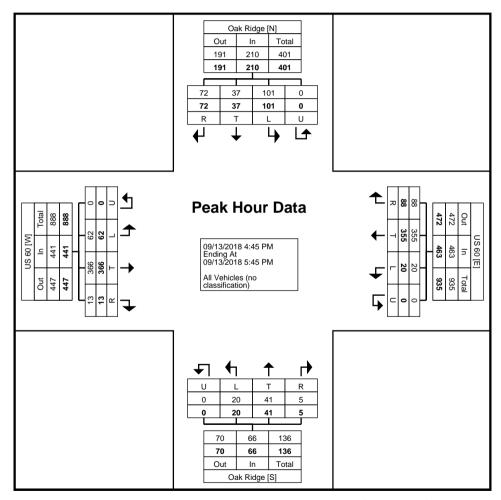


Count Name: US 60 at Oak Ridge Neosho Site Code: 7GST Start Date: 09/13/2018 Page No: 6

#### Turning Movement Peak Hour Data (4:45 PM)

								,						-,							
			Oak Ridge					US 60					Oak Ridge					US 60			
Start Time			Southbound	i				Westbound					Northbound					Eastbound			
Start Time	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Int. Total
4:45 PM	11	8	22	0	41	14	83	6	0	103	2	15	6	0	23	1	98	14	0	113	280
5:00 PM	23	10	36	0	69	24	96	4	0	124	1	8	8	0	17	2	87	16	0	105	315
5:15 PM	23	11	21	0	55	23	92	3	0	118	1	8	2	0	11	4	94	18	0	116	300
5:30 PM	15	8	22	0	45	27	84	7	0	118	1	10	4	0	15	6	87	14	0	107	285
Total	72	37	101	0	210	88	355	20	0	463	5	41	20	0	66	13	366	62	0	441	1180
Approach %	34.3	17.6	48.1	0.0	-	19.0	76.7	4.3	0.0	-	7.6	62.1	30.3	0.0	-	2.9	83.0	14.1	0.0	-	-
Total %	6.1	3.1	8.6	0.0	17.8	7.5	30.1	1.7	0.0	39.2	0.4	3.5	1.7	0.0	5.6	1.1	31.0	5.3	0.0	37.4	-
PHF	0.783	0.841	0.701	0.000	0.761	0.815	0.924	0.714	0.000	0.933	0.625	0.683	0.625	0.000	0.717	0.542	0.934	0.861	0.000	0.950	0.937
All Vehicles (no classification)	72	37	101	0	210	88	355	20	0	463	5	41	20	0	66	13	366	62	0	441	1180
% All Vehicles (no classification)	100.0	100.0	100.0	<u>-</u>	100.0	100.0	100.0	100.0	-	100.0	100.0	100.0	100.0	-	100.0	100.0	100.0	100.0	-	100.0	100.0





Turning Movement Peak Hour Data Plot (4:45 PM)





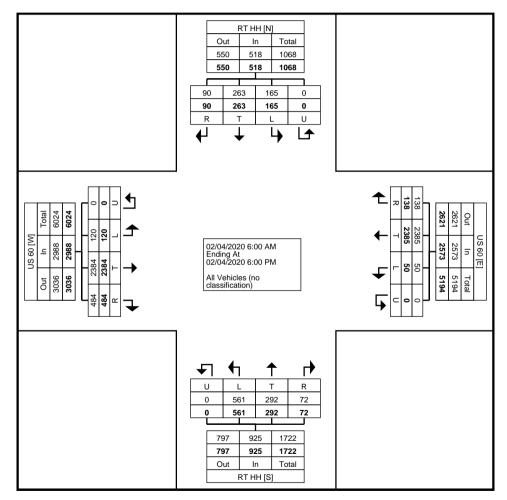
Count Name: RT Z @ Hartley Jasper 7GST Feb 2020 Site Code: Start Date: 02/04/2020 Page No: 1

Turning Movement Data

			RT HH					US 60	Ū				RT HH					US 60			
Ot and Time a			Southbound					Westbound					Northbound					Eastbound			İ
Start Time	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Int. Total
6:00 AM	0	1	5	0	6	0	26	0	0	26	0	3	11	0	14	2	22	0	0	24	70
6:15 AM	1	2	4	0	7	0	31	0	0	31	0	4	6	0	10	3	19	0	0	22	70
6:30 AM	1	3	0	0	4	3	71	1	0	75	3	3	16	0	22	1	15	2	0	18	119
6:45 AM	1	7	1	0	9	0	73	0	0	73	4	5	20	0	29	6	29	0	0	35	146
Hourly Total	3	13	10	0	26	3	201	1	0	205	7	15	53	0	75	12	85	2	0	99	405
7:00 AM	0	5	1	0	6	2	57	2	0	61	1	7	16	0	24	10	42	0	0	52	143
7:15 AM	3	1	8	0	12	6	70	3	0	79	5	10	31	0	46	1	29	4	0	34	171
7:30 AM	3	2	5	0	10	3	73	3	0	79	2	14	24	0	40	6	34	1	0	41	170
7:45 AM	1	4	2	0	7	3	82	0	0	85	2	23	19	0	44	8	37	0	0	45	181
Hourly Total	7	12	16	0	35	14	282	8	0	304	10	54	90	0	154	25	142	5	0	172	665
8:00 AM	3	2	4	0	9	5	59	0	0	64	0	6	15	0	21	7	30	1	0	38	132
8:15 AM	1	2	2	0	5	1	61	1	0	63	1	2	15	0	18	7	37	0	0	44	130
8:30 AM	1	2	. 4	0	. 7	1	49	1	0	51	1	8	14	0	23	7	28	0	0	35	116
8:45 AM	1	2	1	0	4	1	44	2	0	47	1	12	15	0	28	4	34	2	0	40	119
Hourly Total	6	8	11	0	25	8	213	4	0	225	3	28	59	0	90	25	129	3	0	157	497
9:00 AM	3	3	1	0	. 7	3	49	1	0	53	1	4	11	0	16	7	37	2	0	46	122
9:15 AM	0	7	3	0	10	1	60	2	0	63	2	4	13	0	19	4	28	1	0	33	125
9:30 AM	3	5	1	0	9	6	43	2	0	51	1	2	6	0	9	11	45	1	0	57	126
9:45 AM	0	2	2	0	4	1	40	2	0	43	1	7	7	0	15	7	21	4	0	32	94
Hourly Total	6	17	7	0	30	11	192	7	0	210	5	17	37	0	59	29	131	8	0	168	467
10:00 AM	3	3	4	0	10	4	35	1	0	40	3	9	5	0	17	4	35	3	0	42	109
10:15 AM	2	2	3	0	. 7	3	29	0	0	32	1	3	5	0	9	7	34	1	0	42	90
10:30 AM	2	2	2	0	6	3	57	0	0	60	0	5	15	0	20	9	30	2	0	41	127
10:45 AM	1	3	0	0	4	5	41	0	0	46	1	8	10	0	19	7	34	0	0	41	110
Hourly Total	8	10	9	0	27	15	162	1	0	178	5	25	35	0	65	27	133	6	0	166	436
11:00 AM	1	4	. 1	0	6	5	40	1	0	46	1	4	15	0	20	8	53	2	0	63	135
11:15 AM	3	5	6	0	14	5	30	0	0	35	2	4	16	0	22	6	25	2	0	33	104
11:30 AM	2	8	2	0	12	3	35	3	0	41	3	2	10	0	15	11	49	2	0	62	130
11:45 AM	0	3	4	0	. 7	2	42	2	0	46	2	3	11	0	16	8	35	2	0	45	114
Hourly Total	6	20	13	0	39	15	147	6	0	168	8	13	52	0	73	33	162	8	0	203	483
12:00 PM	2	9	5	0	16	1	51	2	0	54	2	4	. 4	0	10	9	44	0	0	53	133
12:15 PM	0	6	2	0	. 8	2	40	2	0	44	1	6	12	0	19	7	57	0	0	64	135
12:30 PM	1	4	3	0	8	11	34	2	0	37	1	6	10	0	17	12	61	2	0	75	137
12:45 PM	2	4	4	0	10	2	46	0	0	48	2	5	6	0	13	7	50	5	0	62	133
Hourly Total	5	23	14	0	42	6	171	6	0	183	6	21	32	0	59	35	212	. 7	0	254	538
1:00 PM	1	6	2	0	9	2	49	3	0	54	1	8	11	0	20	9	36	. 5	0	50	133

1:15 PM	1	7	4	0	12	4	58	0	0	62	3	6	14	0	23	9	51	1	0	61	158
1:30 PM	2	7	2	0	11	2	52	0	0	54	0	2	9	0	11	5	48	1	0	54	130
1:45 PM	0	6	1	0	7	1	48	2	0	51	0	5	9	0	14	7	58	4	0	69	141
Hourly Total	4	26	9	0	39	9	207	5	0	221	4	21	43	0	68	30	193	11	0	234	562
2:00 PM	1	8	1	0	10	2	52	1	0	55	4	8	11	0	23	11	88	3	0	102	190
2:15 PM	4	6	4	0	14	3	40	0	0	43	2	5	13	0	20	10	59	3	0	72	149
2:30 PM	1	6	6	0	13	7	47	0	0	54	1	5	6	0	12	17	59	5	0	81	160
2:45 PM	3	4	5	0	12	4	42	1	0	47	2	9	15	0	26	14	62	2	0	78	163
Hourly Total	9	24	16	0	49	16	181	2	0	199	9	27	45	0	81	52	268	13	0	333	662
3:00 PM	6	7	6	0	19	3	57	1	0	61	2	8	3	0	13	15	71	6	0	92	185
3:15 PM	0	12	3	0	15	4	59	0	0	63	0	7	9	0	16	21	81	7	0	109	203
3:30 PM	6	13	7	0	26	3	55	0	0	58	0	7	6	0	13	16	104	6	0	126	223
3:45 PM	4	15	12	0	31	2	57	2	0	61	4	7	13	0	24	25	82	7	0	114	230
Hourly Total	16	47	28	0	91	12	228	3	0	243	6	29	31	0	66	77	338	26	0	441	841
4:00 PM	3	6	4	0	13	3	34	1	0	38	7	5	12	0	24	20	78	5	0	103	178
4:15 PM	1	10	3	0	14	5	51	0	0	56	0	7	14	0	21	16	86	4	0	106	197
4:30 PM	3	5	4	0	12	2	36	0	0	38	0	7	7	0	14	22	77	6	0	105	169
4:45 PM	2	11	7	0	20	4	64	2	0	70	0	4	12	0	16	15	84	4	0	103	209
Hourly Total	9	32	18	0	59	14	185	3	0	202	7	23	45	0	75	73	325	19	0	417	753
5:00 PM	1	9	5	0	15	4	54	1	0	59	1	4	3	0	8	25	88	5	0	118	200
5:15 PM	5	10	3	0	18	7	51	1	0	59	0	6	10	0	16	21	61	5	0	87	180
5:30 PM	3	7	2	0	12	1	53	0	0	54	1	5	16	0	22	12	64	1	0	77	165
5:45 PM	2	5	4	0	. 11	3	58	2	0	63	0	4	10	0	14	8	53	1	0	62	150
Hourly Total	11	31	14	0	56	15	216	4	0	235	2	19	39	0	60	66	266	12	0	344	695
Grand Total	90	263	165	0	518	138	2385	50	0	2573	72	292	561	0	925	484	2384	120	0	2988	7004
Approach %	17.4	50.8	31.9	0.0	-	5.4	92.7	1.9	0.0	-	7.8	31.6	60.6	0.0	-	16.2	79.8	4.0	0.0	-	-
Total %	1.3	3.8	2.4	0.0	7.4	2.0	34.1	0.7	0.0	36.7	1.0	4.2	8.0	0.0	13.2	6.9	34.0	1.7	0.0	42.7	-
All Vehicles (no classification)	90	263	165	0	518	138	2385	50	0	2573	72	292	561	0	925	484	2384	120	0	2988	7004
% All Vehicles (no classification)	100.0	100.0	100.0	-	100.0	100.0	100.0	100.0	-	100.0	100.0	100.0	100.0	-	100.0	100.0	100.0	100.0	-	100.0	100.0





Turning Movement Data Plot

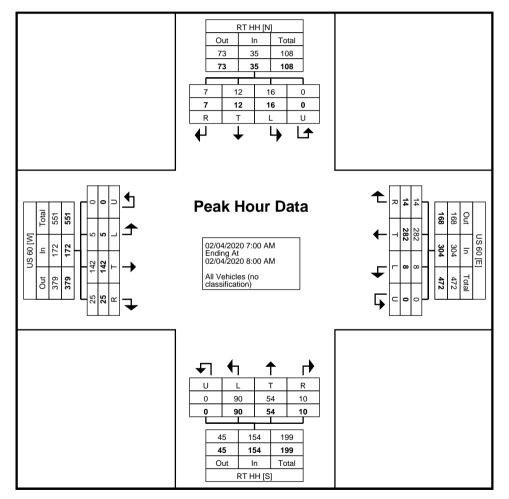


Count Name: RT Z @ Hartley Jasper 7GST Feb 2020 Site Code: Start Date: 02/04/2020 Page No: 4

#### Turning Movement Peak Hour Data (7:00 AM)

							·	,		· oan		~ · · ·	00,	٠,							
			RT HH					US 60					RT HH					US 60			
Ctart Time			Southbound	l				Westbound					Northbound	l				Eastbound			
Start Time	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Int. Total
7:00 AM	0	5	1	0	6	2	57	2	0	61	1	7	16	0	24	10	42	0	0	52	143
7:15 AM	3	1	8	0	12	6	70	3	0	79	5	10	31	0	46	1	29	4	0	34	171
7:30 AM	3	2	5	0	10	3	73	3	0	79	2	14	24	0	40	6	34	1	0	41	170
7:45 AM	1	4	2	0	7	3	82	0	0	85	2	23	19	0	44	8	37	0	0	45	181
Total	7	12	16	0	35	14	282	8	0	304	10	54	90	0	154	25	142	5	0	172	665
Approach %	20.0	34.3	45.7	0.0	-	4.6	92.8	2.6	0.0	-	6.5	35.1	58.4	0.0	-	14.5	82.6	2.9	0.0	-	-
Total %	1.1	1.8	2.4	0.0	5.3	2.1	42.4	1.2	0.0	45.7	1.5	8.1	13.5	0.0	23.2	3.8	21.4	0.8	0.0	25.9	-
PHF	0.583	0.600	0.500	0.000	0.729	0.583	0.860	0.667	0.000	0.894	0.500	0.587	0.726	0.000	0.837	0.625	0.845	0.313	0.000	0.827	0.919
All Vehicles (no classification)	7	12	16	0	35	14	282	8	0	304	10	54	90	0	154	25	142	5	0	172	665
% All Vehicles (no classification)	100.0	100.0	100.0	-	100.0	100.0	100.0	100.0	<u>-</u>	100.0	100.0	100.0	100.0	-	100.0	100.0	100.0	100.0	-	100.0	100.0





Turning Movement Peak Hour Data Plot (7:00 AM)

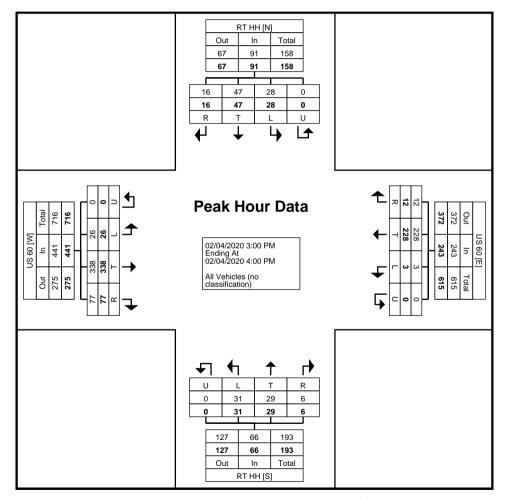


Count Name: RT Z @ Hartley Jasper 7GST Feb 2020 Site Code: Start Date: 02/04/2020 Page No: 6

#### Turning Movement Peak Hour Data (3:00 PM)

							G	,	,,,,,	I Can I	10 G. D	ata (o.		٠,							1
			RT HH					US 60					RT HH					US 60			
Start Time			Southbound					Westbound					Northbound	l				Eastbound			
Start Time	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Int. Total
3:00 PM	6	7	6	0	19	3	57	1	0	61	2	8	3	0	13	15	71	6	0	92	185
3:15 PM	0	12	3	0	15	4	59	0	0	63	0	7	9	0	16	21	81	7	0	109	203
3:30 PM	6	13	7	0	26	3	55	0	0	58	0	7	6	0	13	16	104	6	0	126	223
3:45 PM	4	15	12	0	31	2	57	2	0	61	4	7	13	0	24	25	82	7	0	114	230
Total	16	47	28	0	91	12	228	3	0	243	6	29	31	0	66	77	338	26	0	441	841
Approach %	17.6	51.6	30.8	0.0	-	4.9	93.8	1.2	0.0	-	9.1	43.9	47.0	0.0	-	17.5	76.6	5.9	0.0	-	-
Total %	1.9	5.6	3.3	0.0	10.8	1.4	27.1	0.4	0.0	28.9	0.7	3.4	3.7	0.0	7.8	9.2	40.2	3.1	0.0	52.4	-
PHF	0.667	0.783	0.583	0.000	0.734	0.750	0.966	0.375	0.000	0.964	0.375	0.906	0.596	0.000	0.688	0.770	0.813	0.929	0.000	0.875	0.914
All Vehicles (no classification)	16	47	28	0	91	12	228	3	0	243	6	29	31	0	66	77	338	26	0	441	841
% All Vehicles (no classification)	100.0	100.0	100.0	-	100.0	100.0	100.0	100.0	-	100.0	100.0	100.0	100.0	<u>-</u>	100.0	100.0	100.0	100.0	-	100.0	100.0





Turning Movement Peak Hour Data Plot (3:00 PM)



Your Tagline Here

File Name: 0218_US60_RTS M_W_August2021

Site Code : 0218

Start Date : 8/25/2021

Page No : 1

Groups Printed- All Vahicles (no classification)

									s Printed	<u>l- All Vehicle</u>	<u>es (no cla</u>										
		F	RTS M/V	Ν		(		US 60				F	RTS M/V	Ν				US 60			, ,
		S/	outhbou	and		(	V	Vestboun	ıd			N	orthbou	nd			E	astbound	b		, ,
Start Time	Right	Thru		U-Turn	App. Total	Right	Thru			App. Total	Right	Thru			App. Total	Right	Thru			App. Total	Int. Total
06:00 AM	1	1	1	0	3	0	18	2	0	20	4	3	1	0	8	0	15	1	0	16	47
06:15 AM	1	0	1	0	2	0	13	0	0	13	3	1	2	0	6	1	25	2	0	28	49
06:30 AM	7	1	0	0	8	1	17	1	0	19	6	2	2	0	10	2	22	1	0	25	62
06:45 AM	5	1_	0	0	6	0	18	2	0	20	3	0	1_	0	4	3	20	4	0	27	57_
Total	14	3	2	0	19	1	66	5	0	72	16	6	6	0	28	6	82	8	0	96	215
		_		_		1 -		_		1		_	_	_	- 1	_		_	_	'	
07:00 AM	4	5	1	0	10	0	20	8	0	28	3	2	3	0	8	2	12	2	0	16	62
07:15 AM	9	7	3	0	19	3	33	11	0	47	6	0	5	0	11	1	27	1	0	29	106
07:30 AM	7	3	1	0	11	0	29	2	0	31	2	4	6	0	12	1	21	7	0	29	83
07:45 AM	2	5	0	0		0	26	3	0	29	6	7	6	0	13	2	19	4	0	25	74
Total	22	20	5	0	47	3	108	24	0	135	17	1	20	0	44	6	79	14	0	99	325
08:00 AM	2	0	2	0	4	1	13	4	0	18	2	1	3	0	6	2	16	2	0	20	48
08:15 AM	1	5	0	0	6	2	20	1	0	23	2	2	1	0	5	2	24	3	0	29	63
08:30 AM	2	1	1	0	4	1	20	4	0	25	2	1	9	0	12	0	15	0	0	15	56
08:45 AM	2	1_	0	0	3	2	24	2	0	28	3	3	0	0	6	2	18	2	0	22	59
Total	7	7	3	0	17	6	77	11	0	94	9	7	13	0	29	6	73	7	0	86	226
09:00 AM	1	0	0	0	1	1	32	1	0	34	1	1	2	0	4	1	16	0	0	17	56
09:00 AM 09:15 AM	2	1	2	0	5	2	23	9	0	34	6	0	0	0	6	2	17	0	0	17	64
09:30 AM	3	0	1	0	4	2	23 15	1	0	18	0	0	5	0	5	1	15	2	0	18	45
09:45 AM	1	1	2	0	- 1	3	27	1	0	31	6	0	2	0	8	2	15	1	0	18	61
Total	7	2	5	0	-	8	97	12	0	117	13	1	9	0	23	6	63	3	0	72	226
1014.	,	_	J	J	13	J	0,	12	J		10	•	3	C	20	J	00	J	J	, _ ,	220
10:00 AM	1	1	2	0	4	0	19	0	0	19	2	0	0	0	2	1	22	0	0	23	48
10:15 AM	0	0	1	0	1	1	30	1	0	32	5	1	3	0	9	0	23	2	0	25	67
10:30 AM	0	4	2	0	6	0	22	3	0	25	2	0	5	0	7	3	18	0	0	21	59
10:45 AM	1	5	2	0		1	24	2	0	27	4	0	2	0	6	2	20	0	0	22	63
Total	2	10	7	0	19	2	95	6	0	103	13	1	10	0	24	6	83	2	0	91	237
11:00 AM	0	3	0	0	3	1	30	1	0	32	4	3	1	0	8	1	22	1	0	24	67
11:15 AM	3	3	0	0	6	1	26	2	0	29	4	0	Ó	0	4	0	16	2	0	18	57
11:30 AM	4	2	3	0	9	Ö	23	5	0	28	5	0	0	0	5	4	20	2	0	26	68
11:45 AM	2	3	0	0		0	20	3	0	23	4	3	3	0	10	1	25	1	0	27	65
Total	9	11	3	0		2	99	11	0	112	17	6	4	0	27	6	83	6	0	95	257
10.01	J		C	C	20	_	00		J	112	.,	J	7	J		J	00	J	C	00	201
12:00 PM	1	0	0	0	1	0	22	1	0	23	6	2	2	0	10	5	19	1	0	25	59
12:15 PM	3	1	0	0	4	0	28	2	0	30	4	0	2	0	6	3	28	0	0	31	71
12:30 PM	2	2	1	0	5	3	25	1	0	29	7	1	3	0	11	4	28	2	0	34	79
12:45 PM	3	1_	0	0	4	11	23	2	0	26	5	1	2	0	8	2	21	1	0	24	62
Total	9	4	1	0	14	4	98	6	0	108	22	4	9	0	35	14	96	4	0	114	271

Your Tagline Here

File Name: 0218_US60_RTS M_W_August2021

Site Code: 0218 Start Date : 8/25/2021

Page No : 2

								Group	s Printed-	All Vehicle	es (no cla	ssificatio	n)								
		R	TS M/V	Ν				US 60				F	RTS M/V	٧				US 60			
		So	uthbou	ind			٧	Vestbour	nd			N	orthbou	nd			E	astboun	d		
Start Time	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Int. Total
01:00 PM	2	0	0	0	2	5	25	5	0	35	5	2	0	0	7	1	32	1	0	34	78
01:15 PM	0	0	1	0	1	1	20	1	0	22	2	4	4	0	10	1	29	2	0	32	65
01:30 PM	1	4	3	0	8	1	26	2	0	29	9	2	1	0	12	2	14	1	0	17	66
01:45 PM	1	1	0	0	2	3	19	4	0	26	3	0	2	0	5	2	25	4	0	31	64
Total	4	5	4	0	13	10	90	12	0	112	19	8	7	0	34	6	100	8	0	114	273
02:00 PM	1	0	2	0	3	2	31	3	0	36	2	3	1	0	6	0	21	2	0	23	68
02:15 PM	1	1	9	0	11	1	22	2	0	25	1	2	3	0	6	2	32	1	0	35	77
02:30 PM	4	1	0	0	5	3	36	4	0	43	5	4	4	0	13	1	21	3	0	25	86
02:45 PM	6	1	0	0	7	2	44	3	0	49	1_	1_	3_	0	5	2	34	3	0	39	100
Total	12	3	11	0	26	8	133	12	0	153	9	10	11	0	30	5	108	9	0	122	331
,										1											
03:00 PM	0	3	2	0	5	1	29	4	0	34	5	1	0	0	6	2	25	7	0	34	79
03:15 PM	7	2	1	0	10	4	32	4	0	40	3	0	7	0	10	5	36	5	0	46	106
03:30 PM	2	2	1	0	5	1	26	2	0	29	2	3	4	0	9	4	43	3	0	50	93
03:45 PM	1	3	2	0	6	0	31	7	0	38	3	3	5	0	11	5	34	5	0	44	99
Total	10	10	6	0	26	6	118	17	0	141	13	7	16	0	36	16	138	20	0	174	377
										1											
04:00 PM	1	1	2	0	4	3	32	5	0	40	4	3	3	0	10	3	23	6	0	32	86
04:15 PM	0	4	0	0	4	1	28	5	0	34	2	0	1	0	3	4	29	4	0	37	78
04:30 PM	0	1	2	0	3	1	37	5	0	43	7	2	2	0	11	3	25	5	0	33	90
04:45 PM	2	11	0	0	3	2	20	5	0	27	7	2	4	0	13	2	30	3	0	35	78
Total	3	7	4	0	14	7	117	20	0	144	20	7	10	0	37	12	107	18	0	137	332
1										1										1	
05:00 PM	2	3	2	0	7	1	25	4	0	30	3	6	4	0	13	5	37	3	0	45	95
05:15 PM	4	4	1	0	9	2	23	6	0	31	6	0	5	0	11	3	38	6	0	47	98
05:30 PM	2	0	0	0	2	2	31	5	0	38	7	1	0	0	8	1	24	5	0	30	78
05:45 PM	2	4	2	0	8	0	31	4	0	35	8	3	2	0	13	4	19	4	0	27	83_
Total	10	11	5	0	26	5	110	19	0	134	24	10	11	0	45	13	118	18	0	149	354
										1										1	
06:00 PM	3	1	1	0	5	0	11	4	0	15	2	1	2	0	5	5	22	2	0	29	54
06:15 PM	2	3	1	0	6	1	27	2	0	30	3	2	3	0	8	4	18	6	0	28	72
06:30 PM	1	6	5	0	12	3	8	6	0	17	6	1	5	0	12	4	25	1	0	30	71
06:45 PM	11	2	3	0	6	1	16	7	0	24	7	0	0	0	7	4	17	1	0	22	59
Total	7	12	10	0	29	5	62	19	0	86	18	4	10	0	32	17	82	10	0	109	256
										1											
Grand Total	116	105	66	0	287	67	1270	174	0	1511	210	78	136	0	424	119	1212	127	0	1458	3680
Apprch %	40.4	36.6	23	0		4.4	84.1	11.5	0		49.5	18.4	32.1	0		8.2	83.1	8.7	0		
Total %	3.2	2.9	1.8	0	7.8	1.8	34.5	4.7	0	41.1	5.7	2.1	3.7	0	11.5	3.2	32.9	3.5	0	39.6	

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File Name: 0214_60_CC_Y_Neosho_July2021

Site Code: 0214 Start Date : 7/21/2021

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	Groups Printed- All Venici	es (no classification)
RT CC/Y	US 60	Northbound
Southhound	Westhound	Northh

			RT CC/\			US 60							ound Ap				I				
	Southbound							Vestbour					<u>lorthbour</u>								
Start Time	Right	Thru			App. Total	Right	Thru			App. Total	Right	Thru	Left		App. Total	Right	Thru		U-Turn		Int. Total
06:00 AM	2	1	6	0	9	2	17	0	0	19	4	2	1	0	7	0	26	2	0	28	63
06:15 AM	1	1	7	0	9	1	23	0	0	24	2	8	2	0	12	0	29	1	0	30	75
06:30 AM	1	2	2	0	5	1	26	0	0	27	4	3	1	0	8	0	37	2	0	39	79
06:45 AM	3	2	6	0	11	3	23		0		3	5	0	0	8	0	27	0	0	27	73
Total	7	6	21	0	34	7	89	1	0	97	13	18	4	0	35	0	119	5	0	124	290
07:00 AM	2	2	5	0	9	6	38	0	0	44	7	1	0	0	8	0	32	1	0	33	94
07:15 AM	1	0	4	0	5	0	37	0	0	37	2	10	0	0	12	0	37	2	0	39	93
07:30 AM	2	2	4	0	8	2	33	1	0	36	6	8	1	0	15	0	43	3	0	46	105
07:45 AM	4	2	4	0	10	3	53	2	0		4	3	3	0	10	00	44	2	0	46	124
Total	9	6	17	0	32	11	161	3	0		19	22	4	0	45	0	156	8	0	164	416
08:00 AM	1	1	10	0	12	1	26	2	0	29	7	2	0	0	9	2	23	2	0	27	77
08:15 AM	3	2	9	0	14	3	40	2	0	45	5	1	1	0	7	1	36	3	0	40	106
08:30 AM	2	0	5	0	7	4	34	0	0	38	8	7	0	0	15	1	27	3	0	31	91
08:45 AM	4	1	4	0	9	3	34	1	0	38	8	6	0	0	14	0	37	2	0	39	100
Total	10	4	28	0	42	11	134	5	0	150	28	16	1	0	45	4	123	10	0	137	374
09:00 AM	3	0	4	0	7	3	28	5	0	36	3	2	0	0	5	1	27	4	0	32	80
09:15 AM	1	0	7	0	8	3	42	2	0	47	5	0	1	0	6	1	38	5	0	44	105
09:30 AM	3	1	1	0	5	0	46	0	0	46	2	3	1	0	6	0	34	1	0	35	92
09:45 AM	0	7	2	0	9	11	47	0	0		2	4	1_	00	7	0	26	3	0_	29	93
Total	7	8	14	0	29	7	163	7	0		12	9	3	0	24	2	125	13	0	140	370
10:00 AM	1	2	2	0	5	3	52	3	0	58	3	2	2	0	7	3	28	1	0	32	102
10:15 AM	2	4	4	0	10	3	44	3	0	50	0	5	0	0	5	0	35	1	0	36	101
10:30 AM	0	5	4	0	9	1	48	4	0	53	9	4	1	0	14	2	51	2	0	55	131
10:45 AM	6	2	2	0	10	2	45	4	0	<u> </u>	4	2	2	0	8	3	41	0	0	44	113
Total	9	13	12	0	34	9	189	14	0	212	16	13	5	0	34	8	155	4	0	167	447
11:00 AM	3	4	3	0	10	3	38	0	0	41	4	2	1	0	7	0	39	2	0	41	99
11:15 AM	3	2	4	0	9	2	52	5	0	59	3	4	2	0	9	0	48	3	0	51	128
11:30 AM	4	3	3	0	10	3	44	3	0	50	3	2	1	0	6	0	38	2	0	40	106
11:45 AM	2	6	3	0	11	6	53	5	0	64	1	2	0	0	3	4	44	3	0	51	129
Total	12	15	13	0	40	14	187	13	0	214	11	10	4	0	25	4	169	10	0	183	462
12:00 PM	2	4	5	0	11	2	54	3	0	59	5	0	2	0	7	1	45	1	0	47	124
12:15 PM	2	2	8	0	12	5	55	2	0	62	4	4	1	0	9	2	31	3	0	36	119
12:30 PM	4	1	1	0	6	4	53	3	0	60	3	4	0	0	7	1	37	3	0	41	114
12:45 PM	3	6	3	0	12	7	63	6	0	76	4	3	1	0	8	2	38	2	0	42	138
Total	11	13	17	0	41	18	225	14	0	257	16	11	4	0	31	6	151	9	0	166	495

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File Name: 0214_60_CC_Y_Neosho_July2021

Site Code: 0214 Start Date : 7/21/2021

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Groups Printed- All Vehicles (no classification)

			RT CC/Y			US 60						Northb	ound Ap	proach			ľ				
			<u></u>	Vestbour	nd		Northbound														
Start Time	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left		App. Total	Right	Thru			App. Total	Right	Thru		U-Turn	App. Total	Int. Total
01:00 PM	2	5	4	0	11	5	56	4	0	65	7	5	0	0	12	1	43	2	0	46	134
01:15 PM	3	3	8	0	14	2	56	5	0	63	2	7	2	0	11	0	53	5	0	58	146
01:30 PM	5	6	6	0	17	5	50	10	1	66	7	8	0	0	15	0	48	4	0	52	150
01:45 PM	1_	4	2	0	7	7	48	1	0	56	4	1_	0	0	5	1	39	1_	0	41	109
Total	11	18	20	0	49	19	210	20	1	250	20	21	2	0	43	2	183	12	0	197	539
02:00 PM	2	4	1	0	7	6	54	1	0	61	3	4	1	0	8	0	47	2	0	49	125
02:15 PM	2	2	7	0	11	4	41	3	0	48	3	2	0	0	5	0	50	3	0	53	117
02:30 PM	4	3	5	0	12	6	41	3	0	50	3	5	0	0	8	0	40	4	0	44	114
02:45 PM	3	2	9	0	14	4	48	3	0	55	Ō	2	1	0	3	0	52	1	0	53	125
Total	11	11	22	0	44	20	184	10	0	214	9	13	2	0	24	0	189	10	0	199	481
03:00 PM	2	6	7	0	15	4	53	5	0	62	2	6	0	0	8	0	47	3	0	50	135
03:15 PM	2	4	7	0	13	9	43	7	0	59	4	7	1	0	12	0	68	4	0	72	156
03:30 PM	1	5	3	0	9	7	57	6	0	70	5	3	2	0	10	4	57	3	0	64	153
03:45 PM	6	3	5	0	14	12	56	12	0	80	2	3	0	0	5	1	55	1_	0	57	156
Total	11	18	22	0	51	32	209	30	0	271	13	19	3	0	35	5	227	11	0	243	600
04:00 PM	7	12	4	0	23	12	60	3	0	75	9	2	0	0	11	1	59	1	0	61	170
04:15 PM	7	6	9	0	22	9	68	11	0	88	4	3	0	0	7	0	40	7	0	47	164
04:30 PM	6	6	6	0	18	12	63	2	0	77	5	6	1	0	12	2	64	3	0	69	176
04:45 PM	7	9	7	0	23	7	65	4	0	76	3	7	0	0	10	0	46	8	0	54	163
Total	27	33	26	0	86	40	256	20	0	316	21	18	1	0	40	3	209	19	0	231	673
05:00 PM	5	7	1	0	13	6	61	3	0	70	3	7	1	0	11	0	54	7	0	61	155
05:15 PM	3	4	8	0	15	5	85	4	0	94	3	4	3	0	10	0	61	4	Ü	65	184
05:30 PM	5	9	2	Ü	16	5	66	8	0	79	9	9	1	0	19	0	41	2	Ü	43	157
05:45 PM	5_	9_	5	0	19	7	54	6	0	67	5	5	0	0	10	11	47	6	0	54	150
Total	18	29	16	0	63	23	266	21	0	310	20	25	5	0	50	1	203	19	0	223	646
06:00 PM	4	8	8	0	20	12	57	6	0	75	3	5	2	0	10	1	39	5	0	45	150
06:15 PM	5	10	8	0	23	3	55	6	0	64	3	3	2	0	8	1	36	3	0	40	135
06:30 PM	6	6	6	0	18	7	51	4	0	62	1	1	0	1	3	0	37	1	0	38	121
06:45 PM	6	7	4	0	17	6	31	5	0	42	2	4	0	0	6	2	47	2	0	51	116
Total	21	31	26	0	78	28	194	21	0	243	9	13	4	1	27	4	159	11	0	174	522
Grand Total	164	205	254	0	623	239	2467	179	1	2886	207	208	42	1	458	39	2168	141	0	2348	6315
Apprch %	26.3	32.9	40.8	0	020	8.3	85.5	6.2	0	2000	45.2	45.4	9.2	0.2	450	1.7	92.3	6	0	2070	1
Total %	2.6	3.2	4	0	9.9	3.8	39.1	2.8	0	45.7	3.3	3.3	0.7	0.2	7.3	0.6	34.3	2.2	0	37.2	İ
. 0 (0. 70		- ·-	•	•	0.0	0.0			•		0.0	0.0	٠	•		0.0	0		•	· · · -	a contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of