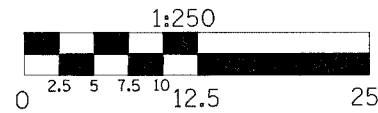
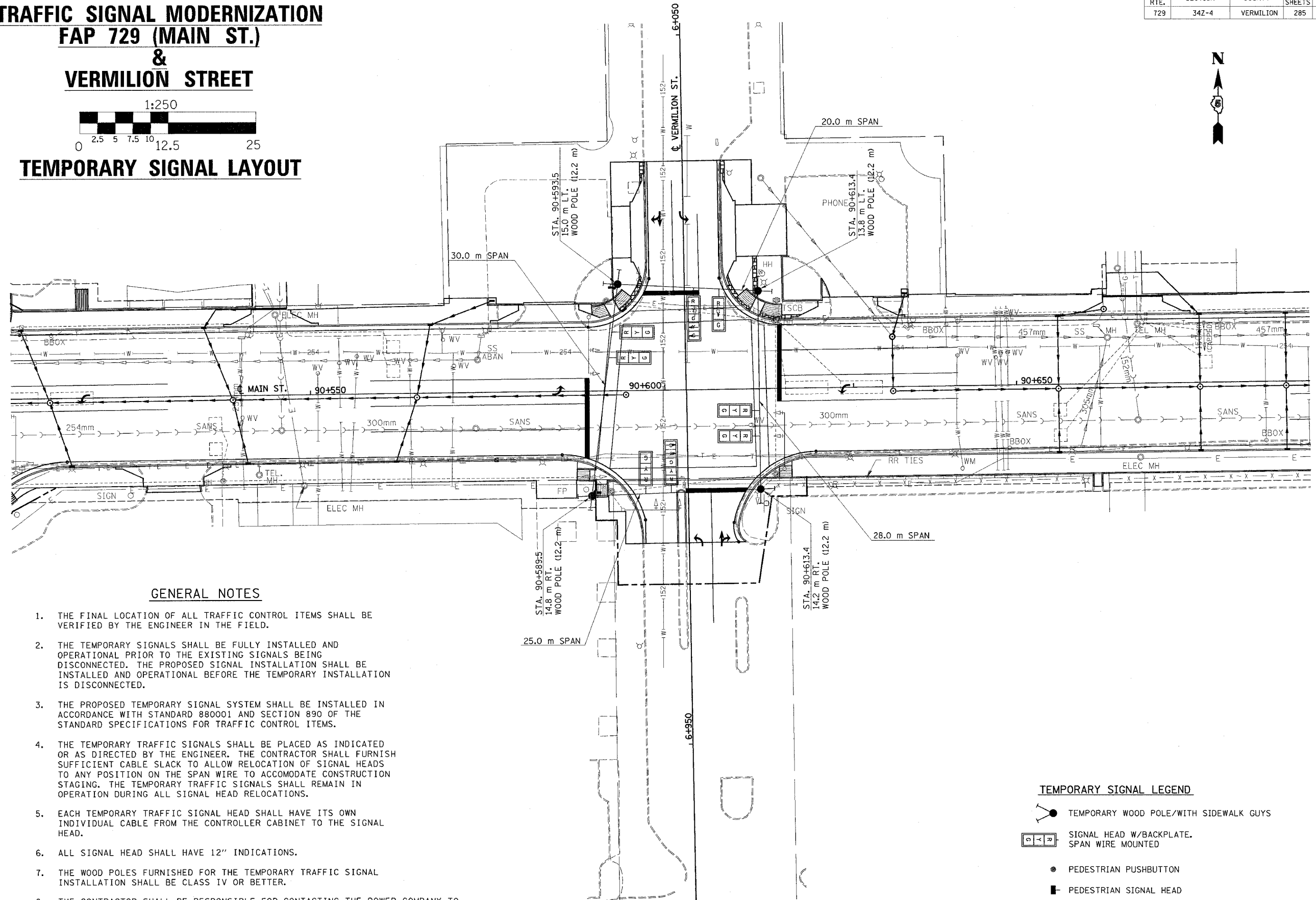


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	342-4	VERMILION	285	101

TRAFFIC SIGNAL MODERNIZATION FAP 729 (MAIN ST.) & VERMILION STREET



TEMPORARY SIGNAL LAYOUT



1. THE FINAL LOCATION OF ALL TRAFFIC CONTROL ITEMS SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.
2. THE TEMPORARY SIGNALS SHALL BE FULLY INSTALLED AND OPERATIONAL PRIOR TO THE EXISTING SIGNALS BEING DISCONNECTED. THE PROPOSED SIGNAL INSTALLATION SHALL BE INSTALLED AND OPERATIONAL BEFORE THE TEMPORARY INSTALLATION IS DISCONNECTED.
3. THE PROPOSED TEMPORARY SIGNAL SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD 880001 AND SECTION 890 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
4. THE TEMPORARY TRAFFIC SIGNALS SHALL BE PLACED AS INDICATED OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH SUFFICIENT CABLE SLACK TO ALLOW RELOCATION OF SIGNAL HEADS TO ANY POSITION ON THE SPAN WIRE TO ACCOMMODATE CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNALS SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS.
5. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN INDIVIDUAL CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
6. ALL SIGNAL HEAD SHALL HAVE 12" INDICATIONS.
7. THE WOOD POLES FURNISHED FOR THE TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL BE CLASS IV OR BETTER.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE POWER COMPANY TO ESTABLISH POWER TO THE TEMPORARY SIGNALS.

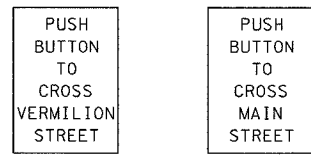
TEMPORARY SIGNAL LEGEND

- TEMPORARY WOOD POLE/WITH SIDEWALK GUYS
- SIGNAL HEAD W/BACKPLATE, SPAN WIRE MOUNTED
- PEDESTRIAN PUSHBUTTON
- PEDESTRIAN SIGNAL HEAD

B I L L O F M A T E R I A L S
U. S. 136 (MAIN ST.) & VERMILION STREET

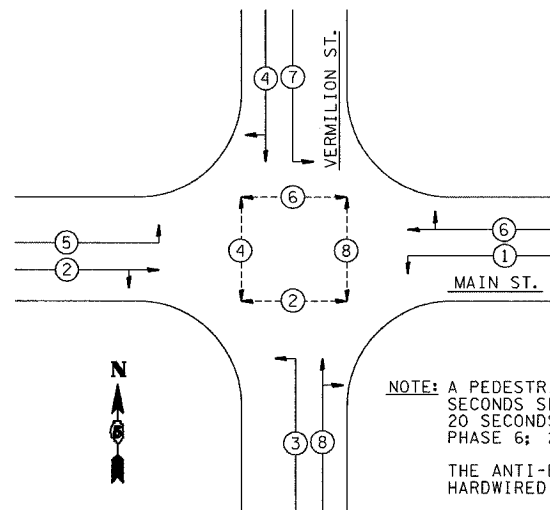
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	104

ITEM	UNIT	QUANTITY
PAINT NEW COMBINATION MAST ARM POLE, UNDER 12.19 METER (40 FEET)	EACH	4
SERVICE INSTALLATION, TYPE B (MODIFIED)	EACH	1
HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
GULFBOX JUNCTION REMOVAL	EACH	1
PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	2
TRAFFIC SIGNAL BACKPLATE	EACH	8
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	6
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
CONDUIT IN TRENCH, 40MM DIA., PVC	METER	138
CONDUIT IN TRENCH, 50MM DIA., PVC	METER	32
CONDUIT IN TRENCH, 75MM DIA., PVC	METER	14
CONDUIT IN TRENCH, 100MM DIA., PVC	METER	5
CONDUIT IN TRENCH, 150MM DIA., PVC	METER	2
CONDUIT, AUGERED 75MM DIA., PVC	METER	33
CONDUIT, AUGERED 100MM DIA., PVC	METER	22
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	191
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	METER	368
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 4C	METER	252
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	METER	181
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	METER	516
ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 18 3 PAIR	METER	127
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	METER	52
TRAFFIC SIGNAL POST, ALUMINUM 4.85 METER	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 5.48 METER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 8.53 METER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 10.36 METER	EACH	2
CONCRETE FOUNDATION, TYPE A	METER	3.6
CONCRETE FOUNDATION, TYPE D	METER	1.1
CONCRETE FOUNDATION, TYPE E 750MM DIAMETER	METER	6
COAXIAL CABLE IN CONDUIT	METER	225
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	METER	137
CONCRETE FOUNDATION, TYPE E 900MM DIAMETER	METER	6.8
VIDEO VEHICLE DETECTION SYSTEM	EACH	1
SIGNAL HEAD ,POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD ,POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD ,POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE,LED, 1-FACE, BRACKET MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED	EACH	2
PAINT NEW TRAFFIC SIGNAL POST	EACH	4



NOTE: PEDESTRIAN PUSH-BUTTON SIGNS SHALL BE MOUNTED ABOVE THE PEDESTRIAN PUSH-BUTTONS. THE SIGNS SHALL BE BOLTED TO THE POSTS. THE SIGNS SHALL BE CONSIDERED AS INCLUDED IN THE COST OF PEDESTRIAN PUSH-BUTTONS IN ACCORDANCE WITH SECTION 888 OF THE STANDARD SPECIFICATIONS.

PEDESTRIAN PUSH-BUTTON SIGN DETAIL



NOTE: A PEDESTRIAN CLEARANCE INTERVAL OF 21 SECONDS SHALL BE USED FOR PHASE 2; 20 SECONDS FOR PHASE 4; 16 SECONDS FOR PHASE 6; 21 SECONDS FOR PHASE 8.
 THE ANTI-BACKUP FEATURE SHALL BE HARDWIRED IN THE CONTROLLER CABINET.

PHASE DESIGNATION DIAGRAM

ITEMS TO BE RETURNED TO IDOT

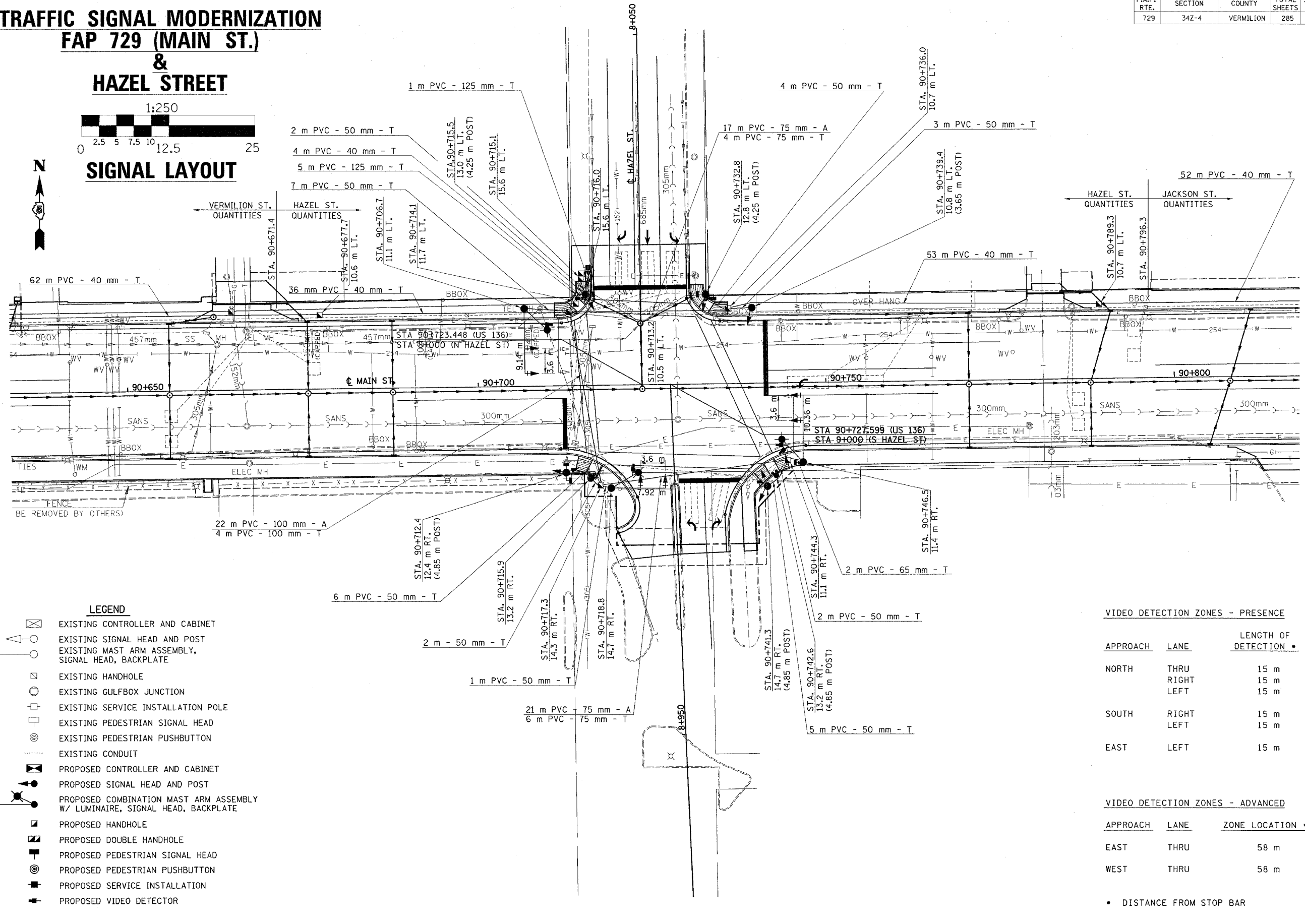
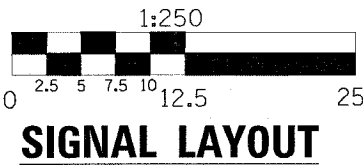
ITEM	QUANTITY
MAST ARM ASSEMBLY & POLE	2 EACH (N.W. & S.E. QUADS)

GENERAL NOTES

1. THE FOLLOWING SIGNAL HEADS SHALL BE WIRED IN PARALLEL AT THE MAST POLE HANDHOLE: (A2, A3), (B2, B3), (C2, C3), (D2, D3) - EACH MAST ARM MOUNTED SIGNAL HEAD SHALL HAVE ITS OWN INDIVIDUAL CABLE FROM THE MAST POLE HANDHOLE TO THE SIGNAL HEAD.
2. THE ACTUAL LOCATION OF ALL SIGNAL FOUNDATIONS, HANDHOLES, AND TRAFFIC CONTROLLER WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
3. POST MOUNTED SIGNALS SHALL BE INSTALLED SO THAT NO PART OF THE SIGNAL HEAD IS WITHIN 600 mm OF THE FACE OF CURB.
4. ALL MAST ARM POLES SHALL BE A MINIMUM OF 1.8 m FROM THE CENTER OF THE POLE TO THE FACE OF CURB (ON THE MAST ARM SIDE) OR AS SHOWN ON THE PLANS.
5. ALIGN ADJACENT RED INDICATIONS TO SAME HEIGHT ABOVE PAVEMENT.
6. THE BASE FOR A TRAFFIC SIGNAL POST SHALL BE SITUATED SUCH THAT THE HANDHOLE IS LOCATED ON A SIDE AWAY FROM A TRAVELED LANE.
7. PEDESTRIAN PUSHBUTTON SIGNAL SIGNS SHALL BE MOUNTED ABOVE THE APPROPRIATE PEDESTRIAN PUSHBUTTON.
8. THE ANTI-BACKUP FEATURE SHALL BE HARDWIRED ON THE BACKPANEL OF THE CONTROLLER CABINET.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	105

TRAFFIC SIGNAL MODERNIZATION FAP 729 (MAIN ST.) & HAZEL STREET



LEGEND

- EXISTING CONTROLLER AND CABINET
- EXISTING SIGNAL HEAD AND POST
- EXISTING MAST ARM ASSEMBLY, SIGNAL HEAD, BACKPLATE
- EXISTING HANDHOLE
- EXISTING GULFBOX JUNCTION
- EXISTING SERVICE INSTALLATION POLE
- EXISTING PEDESTRIAN SIGNAL HEAD
- EXISTING PEDESTRIAN PUSHBUTTON
- EXISTING CONDUIT
- PROPOSED CONTROLLER AND CABINET
- PROPOSED SIGNAL HEAD AND POST
- PROPOSED COMBINATION MAST ARM ASSEMBLY W/ LUMINAIRE, SIGNAL HEAD, BACKPLATE
- PROPOSED HANDHOLE
- PROPOSED DOUBLE HANDHOLE
- PROPOSED PEDESTRIAN SIGNAL HEAD
- PROPOSED PEDESTRIAN PUSHBUTTON
- PROPOSED SERVICE INSTALLATION
- PROPOSED VIDEO DETECTOR

VIDEO DETECTION ZONES - PRESENCE

APPROACH	LANE	LENGTH OF DETECTION *
NORTH	THRU	15 m
	RIGHT	15 m
	LEFT	15 m
SOUTH	RIGHT	15 m
	LEFT	15 m
EAST	LEFT	15 m

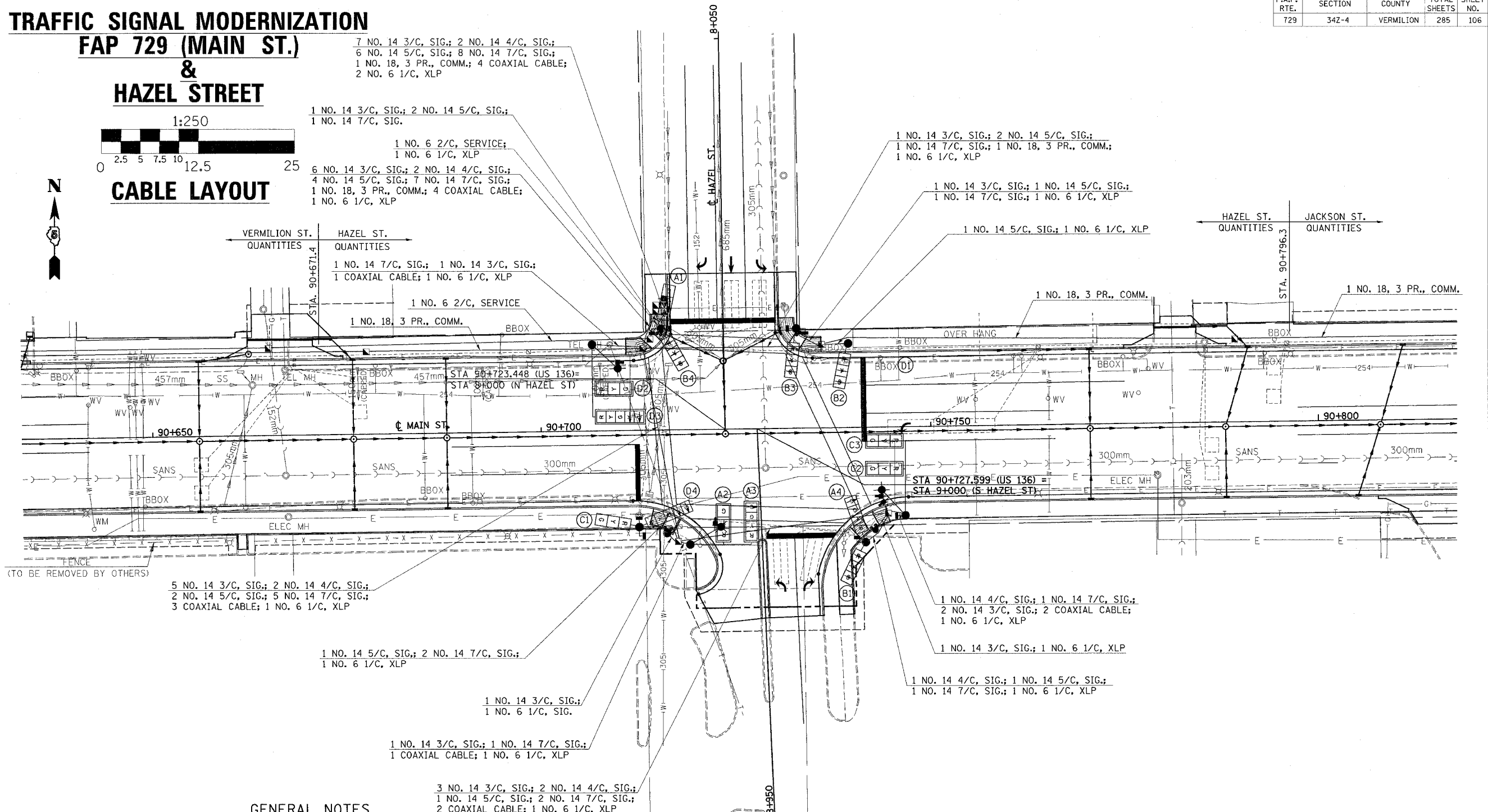
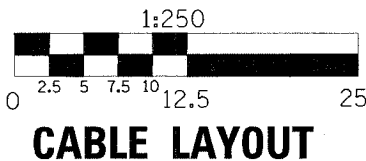
VIDEO DETECTION ZONES - ADVANCED

APPROACH	LANE	ZONE LOCATION *
EAST	THRU	58 m
WEST	THRU	58 m

* DISTANCE FROM STOP BAR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	106

TRAFFIC SIGNAL MODERNIZATION FAP 729 (MAIN ST.) & HAZEL STREET



GENERAL NOTES

- THE CONTROLLER SHALL BE SET TO MINIMUM RECALL U.S. 136.
- THE FINAL LOCATIONS OF ALL TRAFFIC CONTROL ITEMS SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.
- COMBINATION MAST ARM ASSEMBLIES SHALL BE FURNISHED WITH 4.6 m DAVIT ARMS WITH A MOUNTED LUMINAIRE HEIGHT OF 10.7 m.
- TIMINGS SHOWN ARE FOR INITIAL OPERATION AND MAY BE ADJUSTED TO REFLECT SITE CONDITIONS PER APPROVAL OF THE TRAFFIC OPERATIONS ENGINEER.
- SIGNAL FACES FOR THE NORTH APPROACH ARE NOTED AS "A", "B" FOR THE SOUTH APPROACH, "C" FOR THE WEST APPROACH, AND "D" FOR THE EAST APPROACH.
- ITEMS REMOVED WILL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED ON THE PLANS. NOTED ITEMS TO BE RETURNED TO THE DEPARTMENT OF TRANSPORTATION SHALL BE STORED ON THE JOBSITE AS DIRECTED BY THE ENGINEER.
- ALL PAVEMENT MARKING QUANTITIES WILL BE INCLUDED IN THE DESIGN PLANS.
- A NO. 6 1/C XLP CABLE HAS BEEN FURNISHED TO PROVIDE A BONDED GROUND TO CONNECT ALL TRAFFIC SIGNAL POSTS, POLES, CABINETS, EXPOSED METAL CONDUITS AND HANDHOLES. THE BONDED GROUND SHALL BE CONNECTED AT THE SERVICE INSTALLATION.
- ALL TRAFFIC SIGNAL MAST ARM ASSEMBLIES MUST BE DESIGNED FOR THE LOADINGS SHOWN ON THE HIGHWAY STANDARDS OR THESE SIGNAL PLANS, WHICHEVER IS GREATER.
- THE PROPOSED LUMINAIRES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. THE LUMINAIRES WILL BE INSTALLED BY OTHERS WITHIN A SEPARATE LIGHTING CONTRACT.

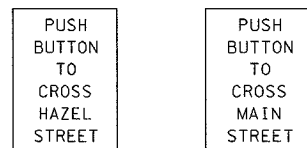
SUGGESTED TIMINGS

PHASE:	1	2	3	4	5	6	7	8
MIN. GREEN	8	14	8	8	—	14	—	—
SEC./ ACT.	—	1.3	1	1	—	1.3	—	—
MAX. GREEN(AM)	8	26	12	14	—	26	—	—
MAX. GREEN(PM)	8	21	14	17	—	21	—	—
PASSAGE	—	5.0	2.0	2.0	—	5.0	—	—
T.B.R.	—	10	—	—	—	10	—	—
T.T.R.	—	5	—	—	—	5	—	—
MIN. GAP	—	3.0	—	—	—	3.0	—	—
AMB. CLR.	3	3.5	3	3	—	3.5	—	—
RED CLR.	—	1.5	1	1	—	1.5	—	—

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	107

B I L L O F M A T E R I A L S
U. S. 136 (MAIN ST.) & HAZEL STREET

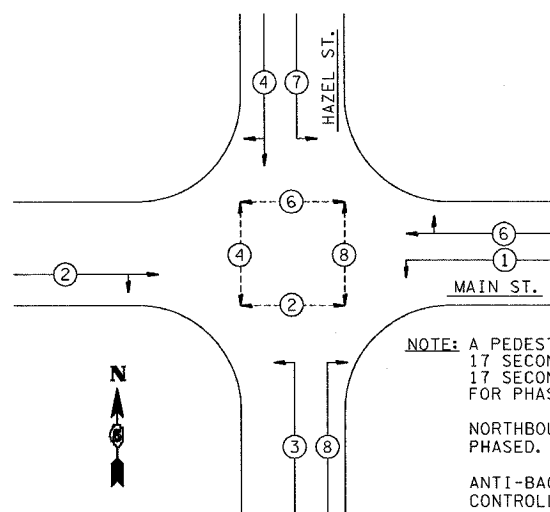
ITEM	UNIT	QUANTITY
PAINT NEW COMBINATION MAST ARM POLE, UNDER 12.19 METER (40 FEET)	EACH	3
SERVICE INSTALLATION, TYPE B (MODIFIED)	EACH	1
HANDHOLE	EACH	7
DOUBLE HANDHOLE	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	2
TRAFFIC SIGNAL BACKPLATE	EACH	6
PEDESTRIAN PUSH-BUTTON	EACH	8
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	10
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
CONDUIT IN TRENCH, 40MM DIA., PVC	METER	164
CONDUIT IN TRENCH, 50MM DIA., PVC	METER	33
CONDUIT IN TRENCH, 75MM DIA., PVC	METER	12
CONDUIT IN TRENCH, 100MM DIA., PVC	METER	4
CONDUIT IN TRENCH, 125MM DIA., PVC	METER	7
CONDUIT, AUGERED 75MM DIA., PVC	METER	38
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	220
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	METER	450
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 4C	METER	161
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	METER	250
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	METER	453
ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 18 3 PAIR	METER	143
TRAFFIC SIGNAL POST, ALUMINUM 3.65 METER	EACH	1
TRAFFIC SIGNAL POST, ALUMINUM 4.25 METER	EACH	2
TRAFFIC SIGNAL POST, ALUMINUM 4.85 METER	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 7.92 METER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 9.14 METER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 10.36 METER	EACH	1
CONCRETE FOUNDATION, TYPE A	METER	4.5
CONCRETE FOUNDATION, TYPE D	METER	1.1
CONCRETE FOUNDATION, TYPE E 750MM DIAMETER	METER	3
COAXIAL CABLE IN CONDUIT	METER	277
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	METER	104
CONCRETE FOUNDATION, TYPE E 900MM DIAMETER	METER	6.8
VIDEO VEHICLE DETECTION SYSTEM	EACH	1
SIGNAL HEAD ,POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD ,POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	3
SIGNAL HEAD ,POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD ,POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD ,POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD ,POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD ,POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED	EACH	3
PAINT NEW TRAFFIC SIGNAL POST	EACH	5



NOTE: PEDESTRIAN PUSH-BUTTON SIGNS SHALL BE MOUNTED ABOVE THE PEDESTRIAN PUSH-BUTTONS. THE SIGNS SHALL BE BOLTED TO THE POSTS. THE SIGNS SHALL BE CONSIDERED AS INCLUDED IN THE COST OF PEDESTRIAN PUSH-BUTTONS IN ACCORDANCE WITH SECTION 888 OF THE STANDARD SPECIFICATIONS.

THE ANTI-BACKUP FEATURE SHALL BE HARDWIRED IN THE CONTROLLER CABINET.

PEDESTRIAN PUSH-BUTTON SIGN DETAIL



NOTE: A PEDESTRIAN CLEARANCE INTERVAL OF 17 SECONDS SHALL BE USED FOR PHASE 2; 17 SECONDS FOR PHASE 4; 13 SECONDS FOR PHASE 6; 17 SECONDS FOR PHASE 8.

NORTHBOUND & SOUTHBOUND SHALL BE SPLIT PHASED.

ANTI-BACKUP SHALL BE HARDWIRED ON THE CONTROLLER CABINET BACKPANEL.

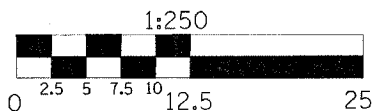
PHASE DESIGNATION DIAGRAM

GENERAL NOTES

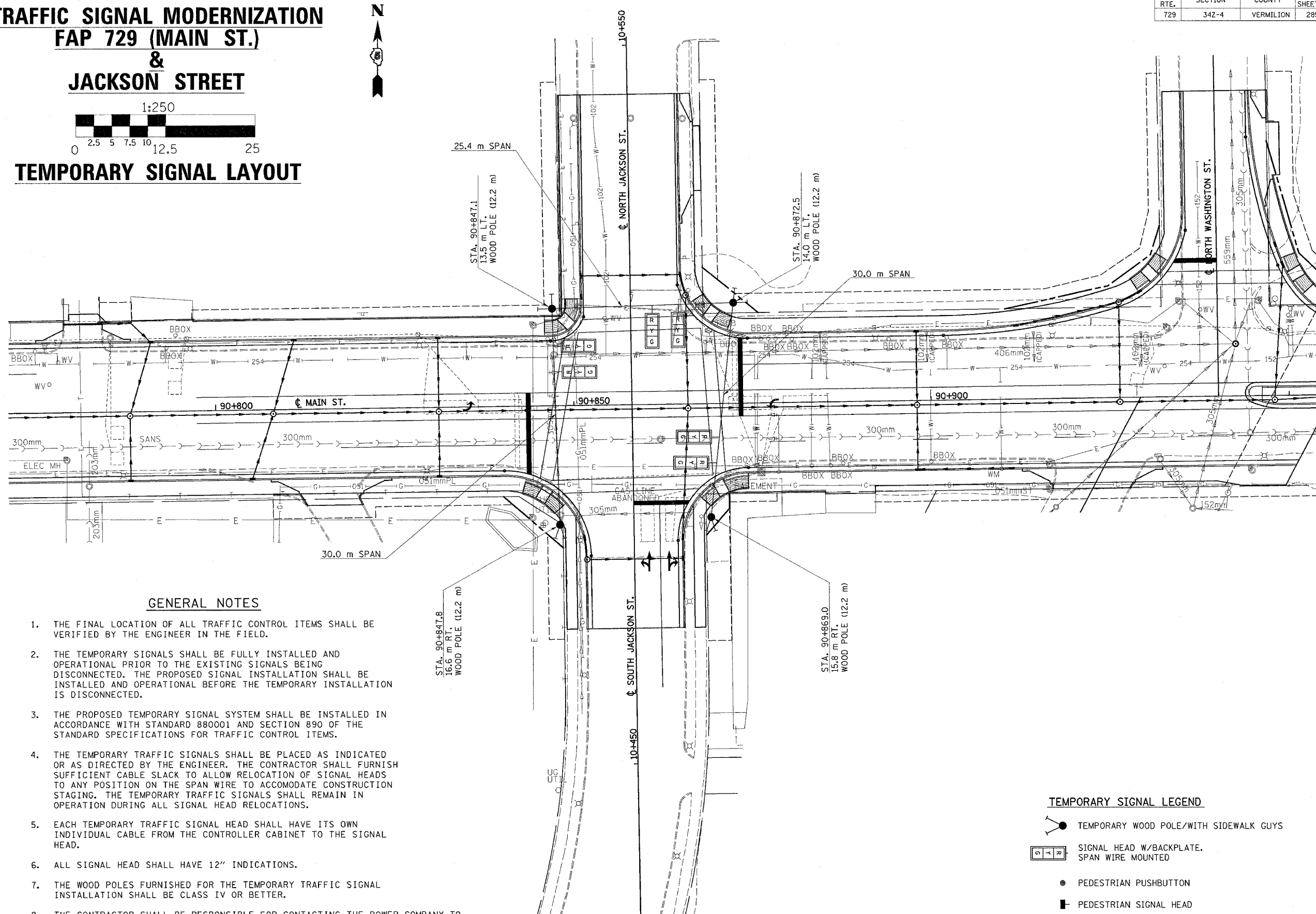
1. THE FOLLOWING SIGNAL HEADS SHALL BE WIRED IN PARALLEL AT THE MAST POLE HANDHOLE:
(A2, A3), (C2, C3), (D2, D3) - EACH MAST ARM MOUNTED SIGNAL HEAD SHALL HAVE ITS OWN INDIVIDUAL CABLE FROM THE MAST POLE HANDHOLE TO THE SIGNAL HEAD.
2. THE ACTUAL LOCATION OF ALL SIGNAL FOUNDATIONS, HANDHOLES, AND TRAFFIC CONTROLLER WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
3. POST MOUNTED SIGNALS SHALL BE INSTALLED SO THAT NO PART OF THE SIGNAL HEAD IS WITHIN 600 mm OF THE FACE OF CURB.
4. ALL MAST ARM POLES SHALL BE A MINIMUM OF 1.8 m FROM THE CENTER OF THE POLE TO THE FACE OF CURB (ON THE MAST ARM SIDE) OR AS SHOWN ON THE PLANS.
5. ALIGN ADJACENT RED INDICATIONS TO SAME HEIGHT ABOVE PAVEMENT.
6. THE BASE FOR A TRAFFIC SIGNAL POST SHALL BE SITUATED SUCH THAT THE HANDHOLE IS LOCATED ON A SIDE AWAY FROM A TRAVELED LANE.
7. PEDESTRIAN PUSHBUTTON SIGNAL SIGNS SHALL BE MOUNTED ABOVE THE APPROPRIATE PEDESTRIAN PUSHBUTTON.
8. THE ANTI-BACKUP FEATURE SHALL BE HARDWIRED ON THE BACKPANEL OF THE CONTROLLER CABINET.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	108

TRAFFIC SIGNAL MODERNIZATION FAP 729 (MAIN ST.) & JACKSON STREET



TEMPORARY SIGNAL LAYOUT



GENERAL NOTES

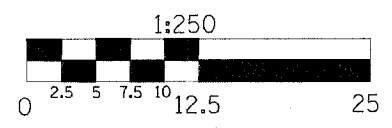
1. THE FINAL LOCATION OF ALL TRAFFIC CONTROL ITEMS SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.
2. THE TEMPORARY SIGNALS SHALL BE FULLY INSTALLED AND OPERATIONAL PRIOR TO THE EXISTING SIGNALS BEING DISCONNECTED. THE PROPOSED SIGNAL INSTALLATION SHALL BE INSTALLED AND OPERATIONAL BEFORE THE TEMPORARY INSTALLATION IS DISCONNECTED.
3. THE PROPOSED TEMPORARY SIGNAL SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD 880001 AND SECTION 890 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
4. THE TEMPORARY TRAFFIC SIGNALS SHALL BE PLACED AS INDICATED OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH SUFFICIENT CABLE SLACK TO ALLOW RELOCATION OF SIGNAL HEADS TO ANY POSITION ON THE SPAN WIRE TO ACCOMMODATE CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNALS SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS.
5. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN INDIVIDUAL CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
6. ALL SIGNAL HEAD SHALL HAVE 12" INDICATIONS.
7. THE WOOD POLES FURNISHED FOR THE TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL BE CLASS IV OR BETTER.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE POWER COMPANY TO ESTABLISH POWER TO THE TEMPORARY SIGNALS.

TEMPORARY SIGNAL LEGEND

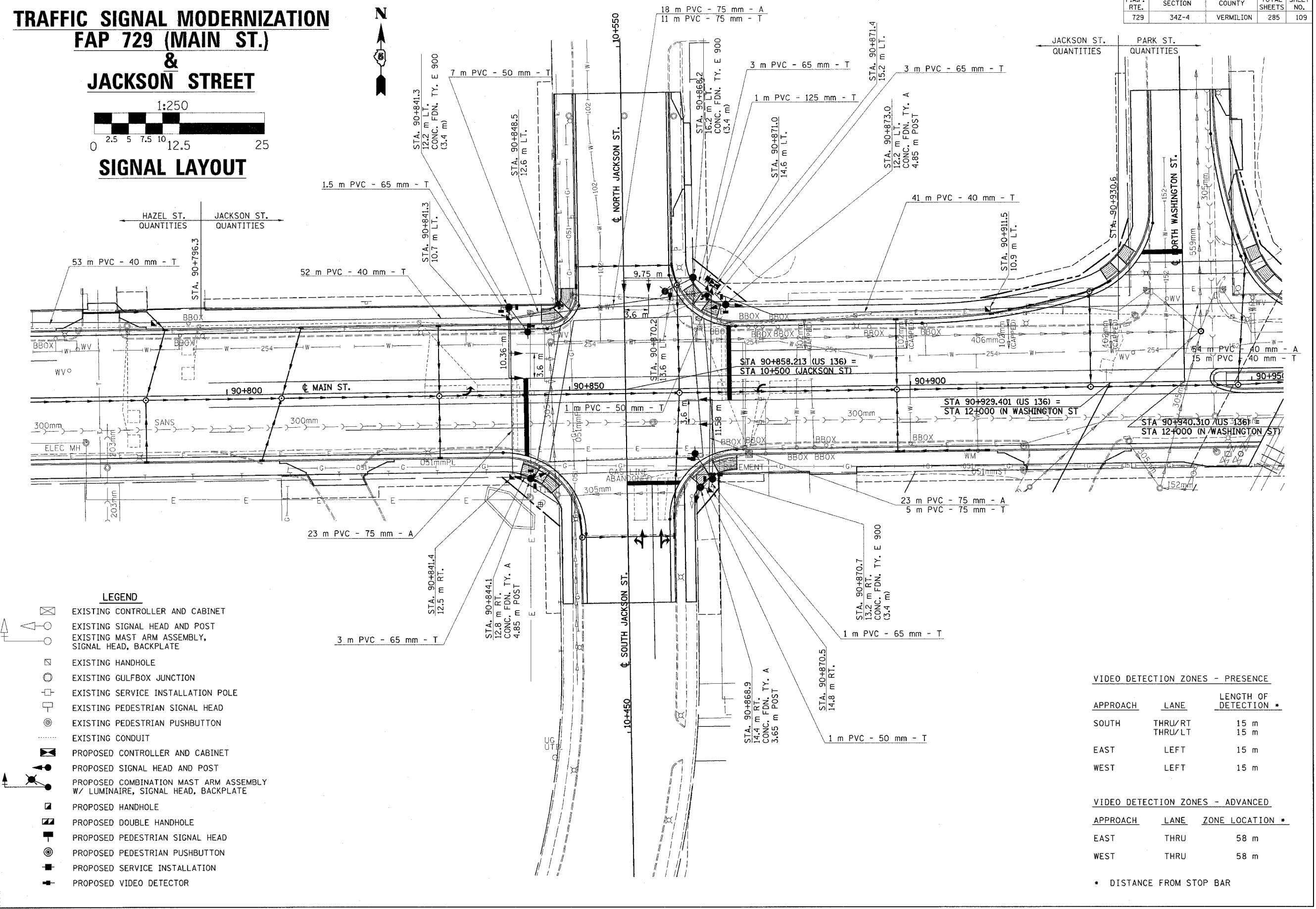
- TEMPORARY WOOD POLE/WITH SIDEWALK GUYS
- SIGNAL HEAD W/BACKPLATE, SPAN WIRE MOUNTED
- PEDESTRIAN PUSHBUTTON
- PEDESTRIAN SIGNAL HEAD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	109

TRAFFIC SIGNAL MODERNIZATION FAP 729 (MAIN ST.) & JACKSON STREET



SIGNAL LAYOUT



LEGEND

- EXISTING CONTROLLER AND CABINET
- EXISTING SIGNAL HEAD AND POST
- EXISTING MAST ARM ASSEMBLY, SIGNAL HEAD, BACKPLATE
- EXISTING HANDHOLE
- EXISTING GULFBOX JUNCTION
- EXISTING SERVICE INSTALLATION POLE
- EXISTING PEDESTRIAN SIGNAL HEAD
- EXISTING PEDESTRIAN PUSHBUTTON
- EXISTING CONDUIT
- PROPOSED CONTROLLER AND CABINET
- PROPOSED SIGNAL HEAD AND POST
- PROPOSED COMBINATION MAST ARM ASSEMBLY W/ LUMINAIRE, SIGNAL HEAD, BACKPLATE
- PROPOSED HANDHOLE
- PROPOSED DOUBLE HANDHOLE
- PROPOSED PEDESTRIAN SIGNAL HEAD
- PROPOSED PEDESTRIAN PUSHBUTTON
- PROPOSED SERVICE INSTALLATION
- PROPOSED VIDEO DETECTOR

VIDEO DETECTION ZONES - PRESENCE

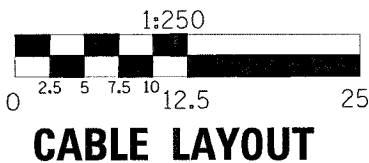
APPROACH	LANE	LENGTH OF DETECTION *
SOUTH	THRU/RT	15 m
	THRU/LT	15 m
EAST	LEFT	15 m
WEST	LEFT	15 m

VIDEO DETECTION ZONES - ADVANCED

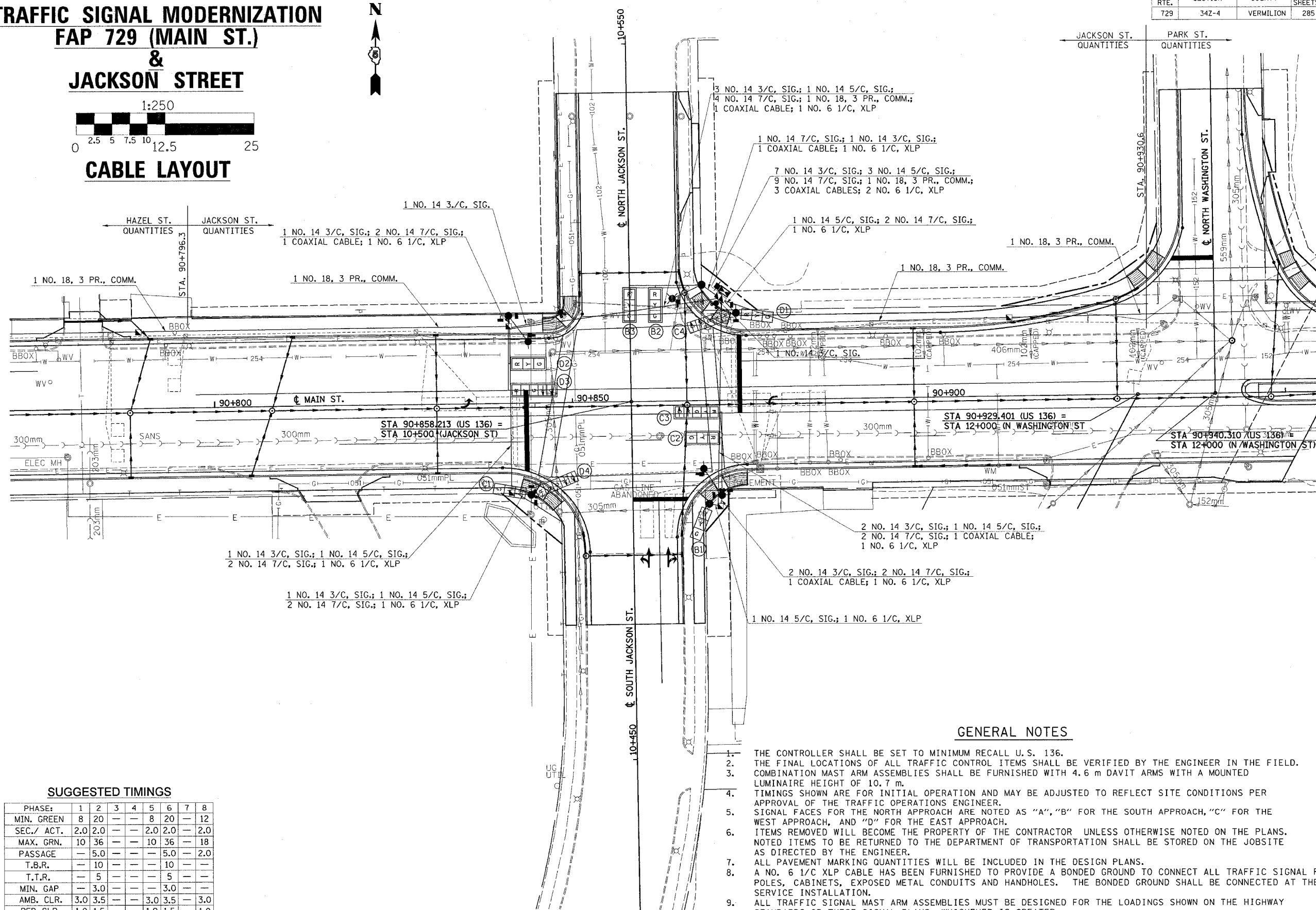
APPROACH	LANE	ZONE LOCATION *
EAST	THRU	58 m
WEST	THRU	58 m

* DISTANCE FROM STOP BAR

TRAFFIC SIGNAL MODERNIZATION FAP 729 (MAIN ST.) & JACKSON STREET



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	110



SUGGESTED TIMINGS

PHASE:	1	2	3	4	5	6	7	8
MIN. GREEN	8	20	-	-	8	20	-	12
SEC./ ACT.	2.0	2.0	-	-	2.0	2.0	-	2.0
MAX. GRN.	10	36	-	-	10	36	-	18
PASSAGE	-	5.0	-	-	-	5.0	-	2.0
T.B.R.	-	10	-	-	-	10	-	-
T.T.R.	-	5	-	-	-	5	-	-
MIN. GAP	-	3.0	-	-	-	3.0	-	-
AMB. CLR.	3.0	3.5	-	-	3.0	3.5	-	3.0
RED CLR.	1.0	1.5	-	-	1.0	1.5	-	1.0

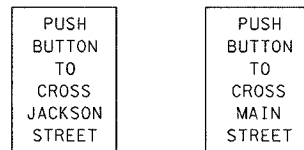
GENERAL NOTES

1. THE CONTROLLER SHALL BE SET TO MINIMUM RECALL U. S. 136.
2. THE FINAL LOCATIONS OF ALL TRAFFIC CONTROL ITEMS SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.
3. COMBINATION MAST ARM ASSEMBLIES SHALL BE FURNISHED WITH 4.6 m DAVIT ARMS WITH A MOUNTED LUMINAIRE HEIGHT OF 10.7 m.
4. TIMINGS SHOWN ARE FOR INITIAL OPERATION AND MAY BE ADJUSTED TO REFLECT SITE CONDITIONS PER APPROVAL OF THE TRAFFIC OPERATIONS ENGINEER.
5. SIGNAL FACES FOR THE NORTH APPROACH ARE NOTED AS "A", "B" FOR THE SOUTH APPROACH, "C" FOR THE WEST APPROACH, AND "D" FOR THE EAST APPROACH.
6. ITEMS REMOVED WILL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED ON THE PLANS. NOTED ITEMS TO BE RETURNED TO THE DEPARTMENT OF TRANSPORTATION SHALL BE STORED ON THE JOBSITE AS DIRECTED BY THE ENGINEER.
7. ALL PAVEMENT MARKING QUANTITIES WILL BE INCLUDED IN THE DESIGN PLANS.
8. A NO. 6 1/C XLP CABLE HAS BEEN FURNISHED TO PROVIDE A BONDED GROUND TO CONNECT ALL TRAFFIC SIGNAL POSTS, POLES, CABINETS, EXPOSED METAL CONDUITS AND HANDHOLES. THE BONDED GROUND SHALL BE CONNECTED AT THE SERVICE INSTALLATION.
9. ALL TRAFFIC SIGNAL MAST ARM ASSEMBLIES MUST BE DESIGNED FOR THE LOADINGS SHOWN ON THE HIGHWAY STANDARDS OR THESE SIGNAL PLANS, WHICHEVER IS GREATER.
10. THE PROPOSED LUMINAIRES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. THE LUMINAIRES WILL BE INSTALLED BY OTHERS WITHIN A SEPARATE LIGHTING CONTRACT.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	111

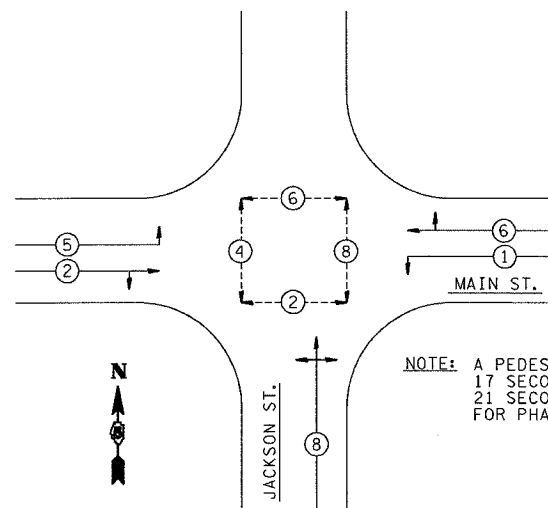
BILL OF MATERIALS
U.S. 136 (MAIN ST.) & JACKSON STREET

ITEM	UNIT	QUANTITY
PAINT NEW COMBINATION MAST ARM POLE, UNDER 12.19 METER (40 FEET)	EACH	3
SERVICE INSTALLATION, TYPE B (MODIFIED)	EACH	1
HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	2
TRAFFIC SIGNAL BACKPLATE	EACH	6
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	7
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
CONDUIT IN TRENCH, 40MM DIA., PVC	METER	95
CONDUIT IN TRENCH, 50MM DIA., PVC	METER	8
CONDUIT IN TRENCH, 65MM DIA., PVC	METER	15
CONDUIT IN TRENCH, 75MM DIA., PVC	METER	16
CONDUIT IN TRENCH, 125MM DIA., PVC	METER	1
CONDUIT, AUGERED 75MM DIA., PVC	METER	64
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	135
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	METER	306
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	METER	162
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	METER	400
ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 18 3 PAIR	METER	146
TRAFFIC SIGNAL POST, ALUMINUM 3.65 METER	EACH	1
TRAFFIC SIGNAL POST, ALUMINUM 4.85 METER	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 9.75 METER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 10.36 METER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 11.58 METER	EACH	1
CONCRETE FOUNDATION, TYPE A	METER	2.8
CONCRETE FOUNDATION, TYPE D	METER	1.1
COAXIAL CABLE IN CONDUIT	METER	138
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	METER	124
CONCRETE FOUNDATION, TYPE E 900MM DIAMETER	METER	10.4
VIDEO VEHICLE DETECTION SYSTEM	EACH	1
SIGNAL HEAD ,POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD ,POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD ,POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD ,POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED	EACH	4
PAINT NEW TRAFFIC SIGNAL POST	EACH	3



NOTE: PEDESTRIAN PUSH-BUTTON SIGNS SHALL BE MOUNTED ABOVE THE PEDESTRIAN PUSH-BUTTONS. THE SIGNS SHALL BE BOLTED TO THE POSTS. THE SIGNS SHALL BE CONSIDERED AS INCLUDED IN THE COST OF PEDESTRIAN PUSH-BUTTONS IN ACCORDANCE WITH SECTION 888 OF THE STANDARD SPECIFICATIONS.

PEDESTRIAN PUSH-BUTTON SIGN DETAIL



NOTE: A PEDESTRIAN CLEARANCE INTERVAL OF 17 SECONDS SHALL BE USED FOR PHASE 2; 21 SECONDS FOR PHASE 6; 19 SECONDS FOR PHASE 8.

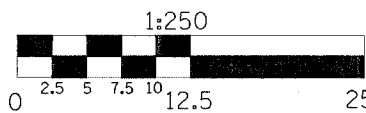
PHASE DESIGNATION DIAGRAM

GENERAL NOTES

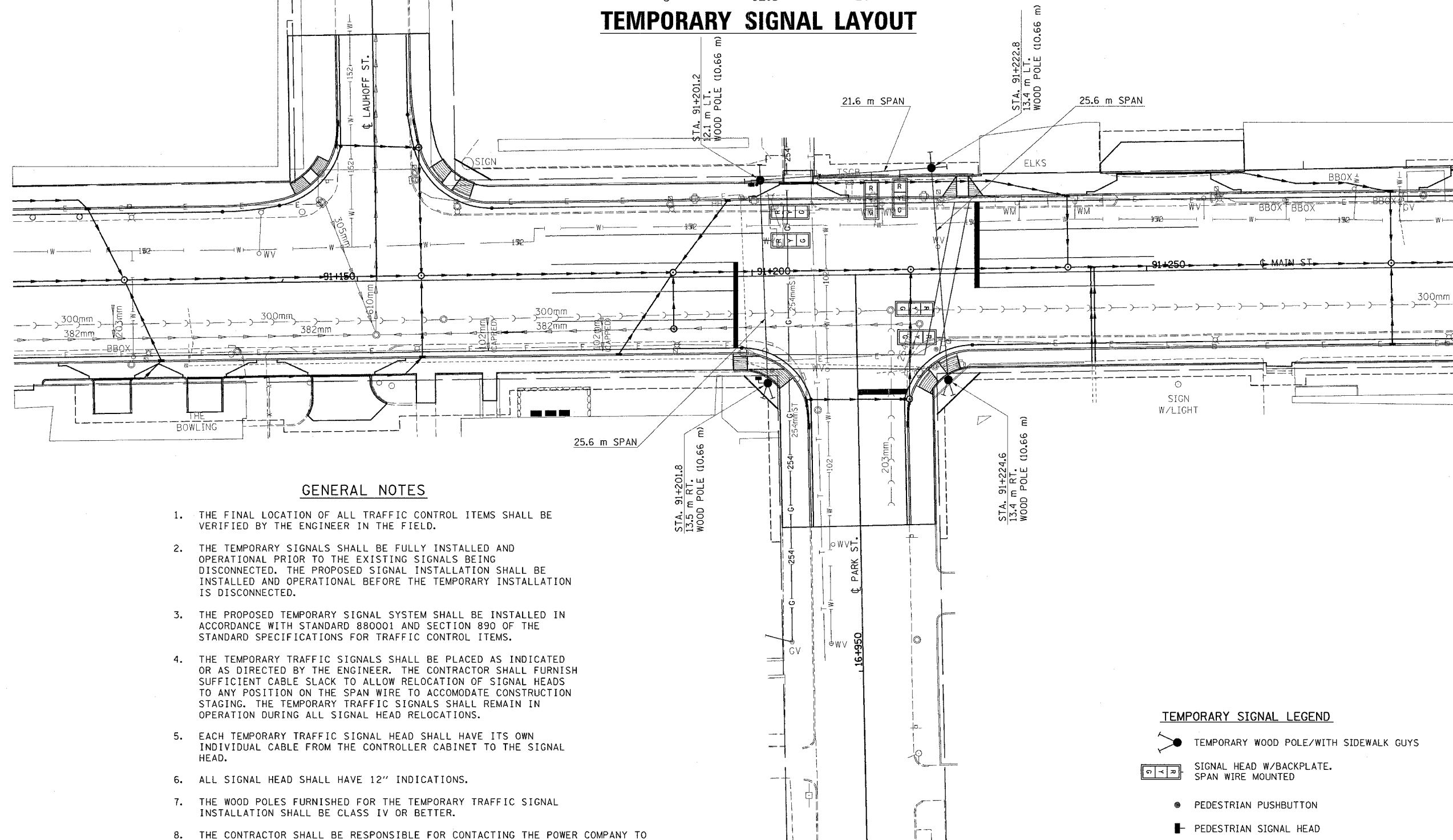
1. THE FOLLOWING SIGNAL HEADS SHALL BE WIRED IN PARALLEL AT THE MAST POLE HANDHOLE: (B2, B3), (C2, C3), (D2, D3) - EACH MAST ARM MOUNTED SIGNAL HEAD SHALL HAVE ITS OWN INDIVIDUAL CABLE FROM THE MAST POLE HANDHOLE TO THE SIGNAL HEAD.
2. THE ACTUAL LOCATION OF ALL SIGNAL FOUNDATIONS, HANDHOLES, AND TRAFFIC CONTROLLER WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
3. POST MOUNTED SIGNALS SHALL BE INSTALLED SO THAT NO PART OF THE SIGNAL HEAD IS WITHIN 600 mm OF THE FACE OF CURB.
4. ALL MAST ARM POLES SHALL BE A MINIMUM OF 1.8 m FROM THE CENTER OF THE POLE TO THE FACE OF CURB (ON THE MAST ARM SIDE) OR AS SHOWN ON THE PLANS.
5. ALIGN ADJACENT RED INDICATIONS TO SAME HEIGHT ABOVE PAVEMENT.
6. THE BASE FOR A TRAFFIC SIGNAL POST SHALL BE SITUATED SUCH THAT THE HANDHOLE IS LOCATED ON A SIDE AWAY FROM A TRAVELED LANE.
7. PEDESTRIAN PUSHBUTTON SIGNAL SIGNS SHALL BE MOUNTED ABOVE THE APPROPRIATE PEDESTRIAN PUSHBUTTON.
8. THE ANTI-BACKUP FEATURE SHALL BE HARDWIRED ON THE BACKPANEL OF THE CONTROLLER CABINET.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	112

TRAFFIC SIGNAL MODERNIZATION FAP 729 (MAIN ST.) & PARK STREET



TEMPORARY SIGNAL LAYOUT



GENERAL NOTES

1. THE FINAL LOCATION OF ALL TRAFFIC CONTROL ITEMS SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.
2. THE TEMPORARY SIGNALS SHALL BE FULLY INSTALLED AND OPERATIONAL PRIOR TO THE EXISTING SIGNALS BEING DISCONNECTED. THE PROPOSED SIGNAL INSTALLATION SHALL BE INSTALLED AND OPERATIONAL BEFORE THE TEMPORARY INSTALLATION IS DISCONNECTED.
3. THE PROPOSED TEMPORARY SIGNAL SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD 880001 AND SECTION 890 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
4. THE TEMPORARY TRAFFIC SIGNALS SHALL BE PLACED AS INDICATED OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH SUFFICIENT CABLE SLACK TO ALLOW RELOCATION OF SIGNAL HEADS TO ANY POSITION ON THE SPAN WIRE TO ACCOMMODATE CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNALS SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS.
5. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN INDIVIDUAL CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
6. ALL SIGNAL HEAD SHALL HAVE 12" INDICATIONS.
7. THE WOOD POLES FURNISHED FOR THE TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL BE CLASS IV OR BETTER.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE POWER COMPANY TO ESTABLISH POWER TO THE TEMPORARY SIGNALS.

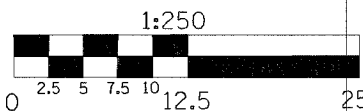
TEMPORARY SIGNAL LEGEND

- TEMPORARY WOOD POLE/WITH SIDEWALK GUYS
- SIGNAL HEAD W/BACKPLATE, SPAN WIRE MOUNTED
- PEDESTRIAN PUSHBUTTON
- PEDESTRIAN SIGNAL HEAD

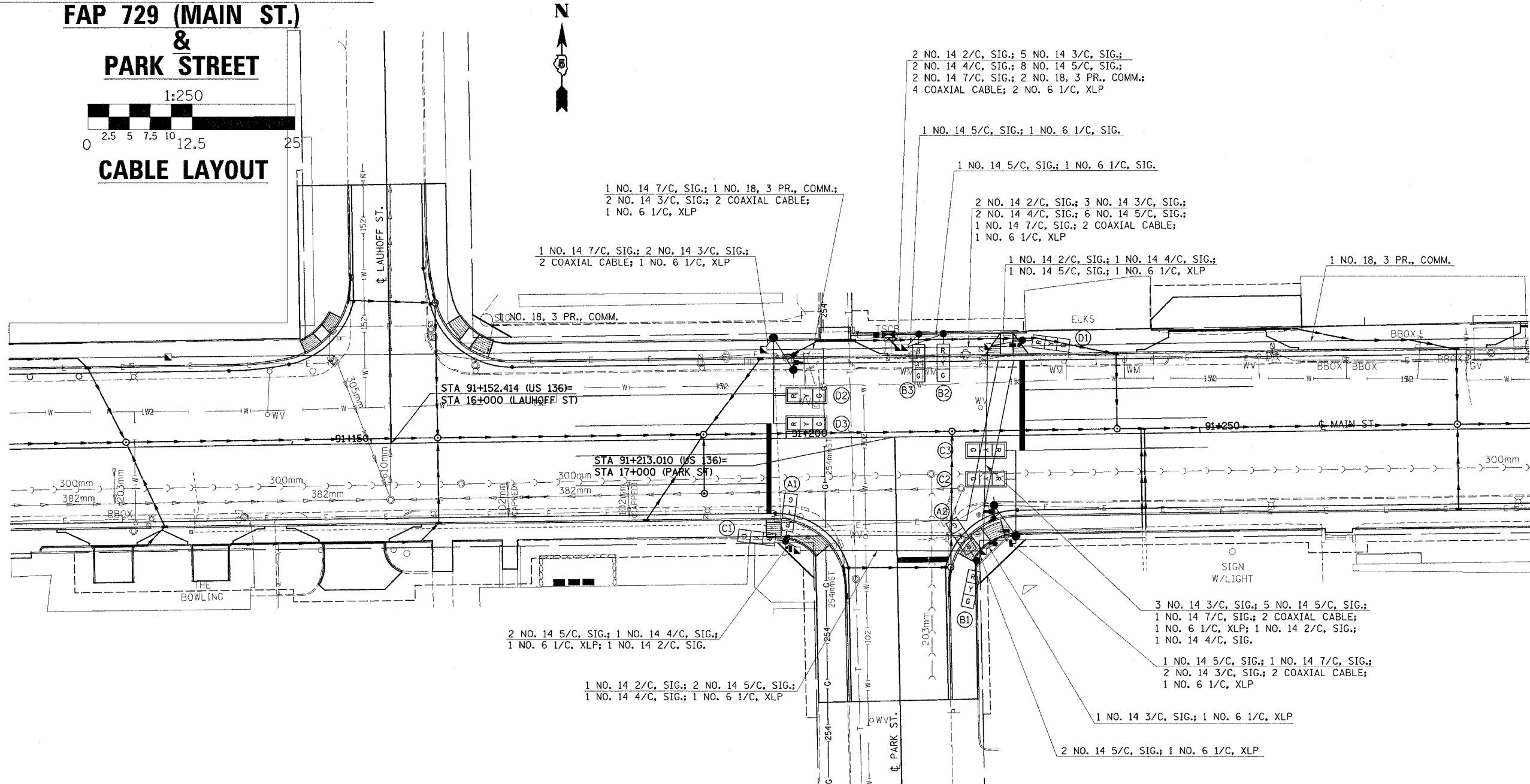
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	114

TRAFFIC SIGNAL MODERNIZATION FAP 729 (MAIN ST.)

& PARK STREET



CABLE LAYOUT



GENERAL NOTES

1. THE CONTROLLER SHALL BE SET TO MINIMUM RECALL U.S. 136.
2. THE FINAL LOCATIONS OF ALL TRAFFIC CONTROL ITEMS SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.
3. COMBINATION MAST ARM ASSEMBLIES SHALL BE FURNISHED WITH 4.6 m DAVIT ARMS WITH A MOUNTED LUMINAIRE HEIGHT OF 10.7 m.
4. TIMINGS SHOWN ARE FOR INITIAL OPERATION AND MAY BE ADJUSTED TO REFLECT SITE CONDITIONS PER APPROVAL OF THE TRAFFIC OPERATIONS ENGINEER.
5. SIGNAL FACES FOR THE NORTH APPROACH ARE NOTED AS "A", "B" FOR THE SOUTH APPROACH, "C" FOR THE WEST APPROACH, AND "D" FOR THE EAST APPROACH.
6. ITEMS REMOVED WILL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED ON THE PLANS. NOTED ITEMS TO BE RETURNED TO THE DEPARTMENT OF TRANSPORTATION SHALL BE STORED ON THE JOBSITE AS DIRECTED BY THE ENGINEER.
7. ALL PAVEMENT MARKING QUANTITIES WILL BE INCLUDED IN THE DESIGN PLANS.
8. A NO. 6 1/C XLP CABLE HAS BEEN FURNISHED TO PROVIDE A BONDED GROUND TO CONNECT ALL TRAFFIC SIGNAL POSTS, POLES, CABINETS, EXPOSED METAL CONDUITS AND HANDHOLES. THE BONDED GROUND SHALL BE CONNECTED AT THE SERVICE INSTALLATION.
9. ALL TRAFFIC SIGNAL MAST ARM ASSEMBLIES MUST BE DESIGNED FOR THE LOADINGS SHOWN ON THE HIGHWAY STANDARDS OR THESE SIGNAL PLANS, WHICHEVER IS GREATER.
10. THE PROPOSED LUMINAIRES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. THE LUMINAIRES WILL BE INSTALLED BY OTHERS WITHIN A SEPARATE LIGHTING CONTRACT.

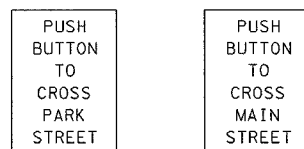
SUGGESTED TIMINGS

PHASE:	1	2	3	4	5	6	7	8
MIN. GREEN	-	18	-	12	-	18	-	12
SEC./ ACT.	-	2	-	2	-	2	-	2
MAX. GRN.	-	30	-	22	-	30	-	22
PASSAGE	-	5.0	-	2.2	-	5.0	-	2.2
T.B.R.	-	10	-	-	-	10	-	-
T.T.R.	-	5	-	-	-	5	-	-
MIN. GAP	-	3.0	-	-	-	3.0	-	-
AMB. CLR.	-	3.5	-	3	-	3.5	-	3
RED CLR.	-	1.5	-	1	-	1.5	-	1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	115

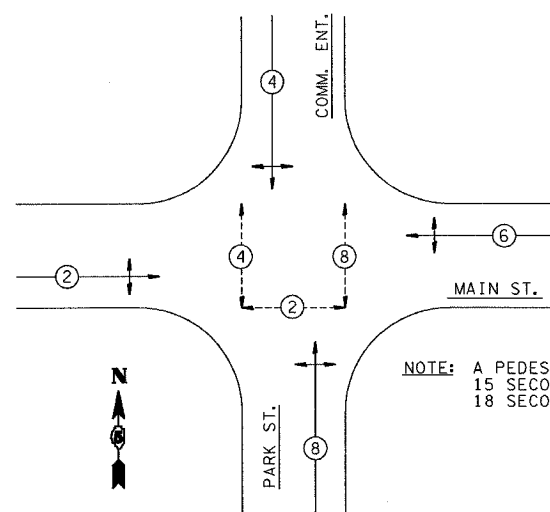
BILL OF MATERIALS
U.S. 136 (MAIN ST.) & PARK STREET

ITEM	UNIT	QUANTITY
SERVICE INSTALLATION, TYPE B (MODIFIED)	EACH	1
HANDHOLE	EACH	7
DOUBLE HANDHOLE	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	1
TRAFFIC SIGNAL BACKPLATE	EACH	4
PEDESTRIAN PUSH-BUTTON	EACH	4
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	5
REMOVE EXISTING CONCRETE FOUNDATION	EACH	10
CONDUIT IN TRENCH, 40MM DIA., PVC	METER	247
CONDUIT IN TRENCH, 50MM DIA., PVC	METER	16
CONDUIT IN TRENCH, 75MM DIA., PVC	METER	5
CONDUIT IN TRENCH, 100MM DIA., PVC	METER	12
CONDUIT, AUGERED 40MM DIA., PVC	METER	81
CONDUIT, AUGERED 75MM DIA., PVC	METER	18
CONDUIT, AUGERED 100MM DIA., PVC	METER	22
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	280
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	METER	98
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	METER	276
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 4C	METER	90
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	METER	421
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	METER	96
ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 18 3 PAIR	METER	359
TRAFFIC SIGNAL POST, ALUMINUM 3.65 METER	EACH	3
TRAFFIC SIGNAL POST, ALUMINUM 4.25 METER	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 10.36 METER	EACH	2
CONCRETE FOUNDATION, TYPE A	METER	4.6
CONCRETE FOUNDATION, TYPE D	METER	1.1
COAXIAL CABLE IN CONDUIT	METER	226
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	METER	145
CONCRETE FOUNDATION, TYPE E 900MM DIAMETER	METER	6.8
VIDEO VEHICLE DETECTION SYSTEM	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED	EACH	1



NOTE: PEDESTRIAN PUSH-BUTTON SIGNS SHALL BE MOUNTED ABOVE THE PEDESTRIAN PUSH-BUTTONS. THE SIGNS SHALL BE BOLTED TO THE POSTS. THE SIGNS SHALL BE CONSIDERED AS INCLUDED IN THE COST OF PEDESTRIAN PUSH-BUTTONS IN ACCORDANCE WITH SECTION 888 OF THE STANDARD SPECIFICATIONS.

PEDESTRIAN PUSH-BUTTON SIGN DETAIL



NOTE: A PEDESTRIAN CLEARANCE INTERVAL OF 15 SECONDS SHALL BE USED FOR PHASE 2; 18 SECONDS FOR PHASE 4; 18 SECONDS FOR PHASE 8.

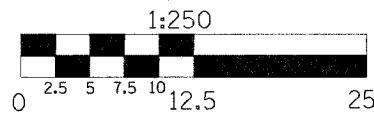
PHASE DESIGNATION DIAGRAM

GENERAL NOTES

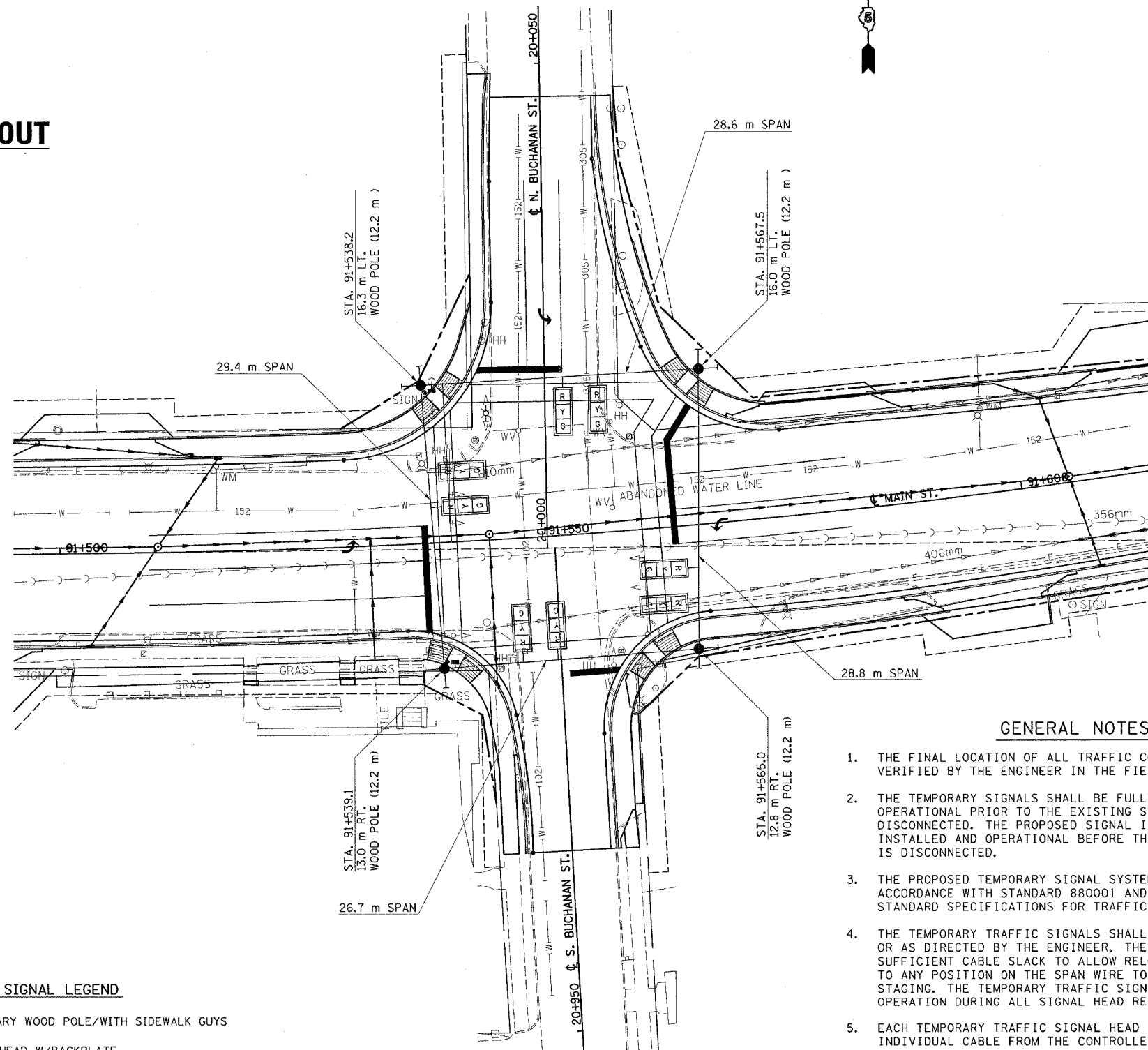
1. THE FOLLOWING SIGNAL HEADS SHALL BE WIRED IN PARALLEL AT THE MAST POLE HANDHOLE: (B2, B3), (C2, C3), (D2, D3) - EACH MAST ARM MOUNTED SIGNAL HEAD SHALL HAVE ITS OWN INDIVIDUAL CABLE FROM THE MAST POLE HANDHOLE TO THE SIGNAL HEAD.
2. THE ACTUAL LOCATION OF ALL SIGNAL FOUNDATIONS, HANDHOLES, AND TRAFFIC CONTROLLER WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
3. POST MOUNTED SIGNALS SHALL BE INSTALLED SO THAT NO PART OF THE SIGNAL HEAD IS WITHIN 600 mm OF THE FACE OF CURB.
4. ALL MAST ARM POLES SHALL BE A MINIMUM OF 1.8 m FROM THE CENTER OF THE POLE TO THE FACE OF CURB (ON THE MAST ARM SIDE) OR AS SHOWN ON THE PLANS.
5. ALIGN ADJACENT RED INDICATIONS TO SAME HEIGHT ABOVE PAVEMENT.
6. THE BASE FOR A TRAFFIC SIGNAL POST SHALL BE SITUATED SUCH THAT THE HANDHOLE IS LOCATED ON A SIDE AWAY FROM A TRAVELED LANE.
7. PEDESTRIAN PUSHBUTTON SIGNAL SIGNS SHALL BE MOUNTED ABOVE THE APPROPRIATE PEDESTRIAN PUSHBUTTON.
8. THE ANTI-BACKUP FEATURE SHALL BE HARDWIRED ON THE BACKPANEL OF THE CONTROLLER CABINET.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	116

TRAFFIC SIGNAL MODERNIZATION FAP 729 (MAIN ST.) & BUCHANAN STREET



TEMPORARY SIGNAL LAYOUT



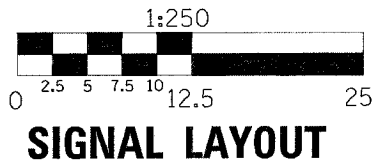
- TEMPORARY SIGNAL LEGEND**
- TEMPORARY WOOD POLE/WITH SIDEWALK GUYS
 - SIGNAL HEAD W/BACKPLATE, SPAN WIRE MOUNTED
 - PEDESTRIAN PUSHBUTTON
 - PEDESTRIAN SIGNAL HEAD

GENERAL NOTES

1. THE FINAL LOCATION OF ALL TRAFFIC CONTROL ITEMS SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.
2. THE TEMPORARY SIGNALS SHALL BE FULLY INSTALLED AND OPERATIONAL PRIOR TO THE EXISTING SIGNALS BEING DISCONNECTED. THE PROPOSED SIGNAL INSTALLATION SHALL BE INSTALLED AND OPERATIONAL BEFORE THE TEMPORARY INSTALLATION IS DISCONNECTED.
3. THE PROPOSED TEMPORARY SIGNAL SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD 880001 AND SECTION 890 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
4. THE TEMPORARY TRAFFIC SIGNALS SHALL BE PLACED AS INDICATED OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH SUFFICIENT CABLE SLACK TO ALLOW RELOCATION OF SIGNAL HEADS TO ANY POSITION ON THE SPAN WIRE TO ACCOMMODATE CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNALS SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS.
5. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN INDIVIDUAL CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
6. ALL SIGNAL HEAD SHALL HAVE 12" INDICATIONS.
7. THE WOOD POLES FURNISHED FOR THE TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL BE CLASS IV OR BETTER.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE POWER COMPANY TO ESTABLISH POWER TO THE TEMPORARY SIGNALS.

TRAFFIC SIGNAL MODERNIZATION FAP 729 (MAIN ST.) & BUCHANAN STREET

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	117



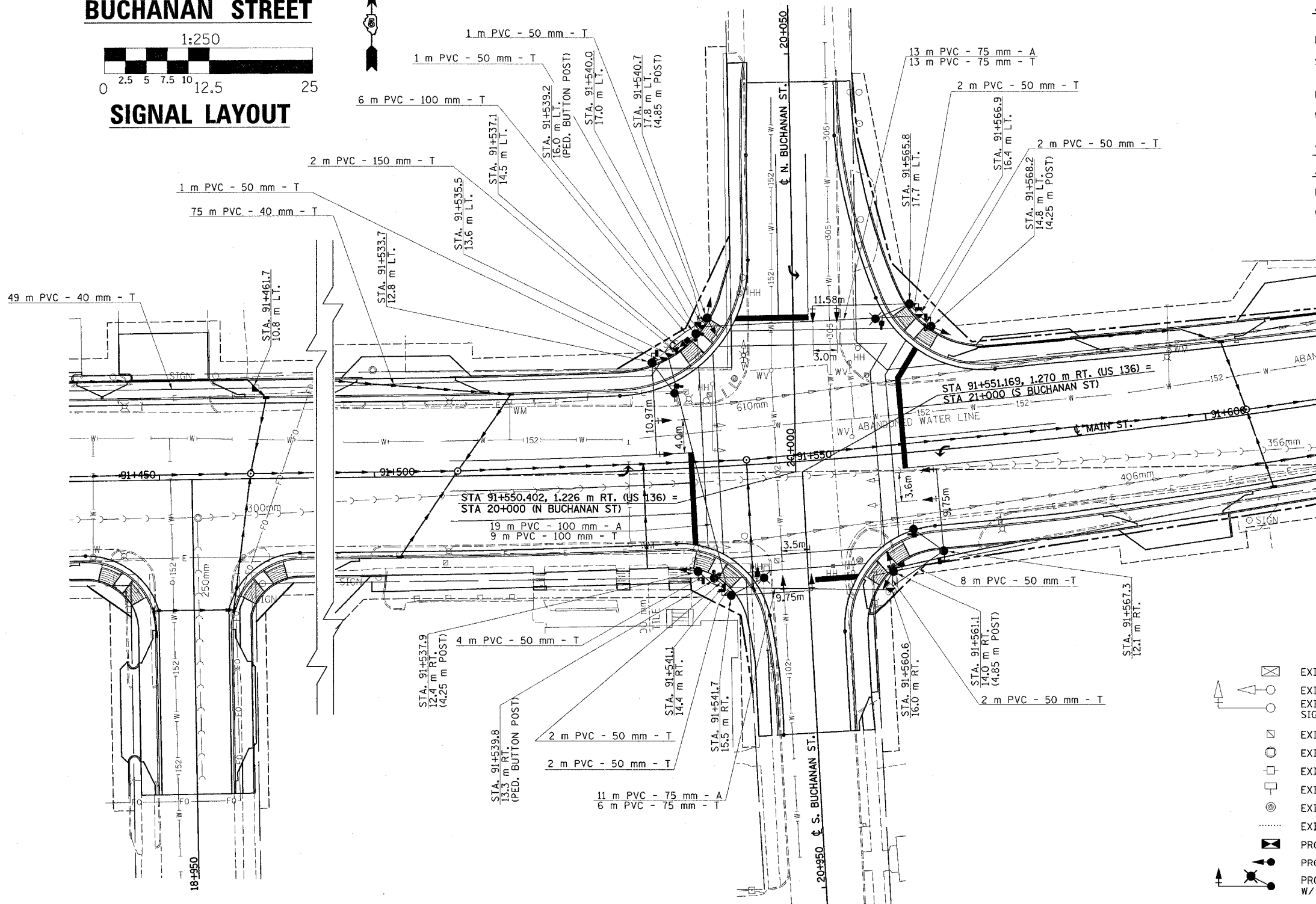
VIDEO DETECTION ZONES - PRESENCE

APPROACH	LANE	LENGTH OF DETECTION *
NORTH	THRU	15 m
SOUTH	THRU	15 m
	RIGHT	15 m
EAST	LEFT	15 m
WEST	LEFT	15 m

VIDEO DETECTION ZONES - ADVANCED

APPROACH	LANE	ZONE LOCATION *
EAST	THRU	82 m
WEST	THRU	82 m

* DISTANCE FROM STOP BAR

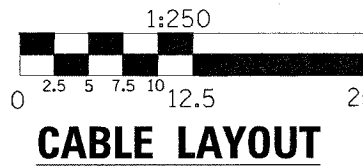


LEGEND

- EXISTING CONTROLLER AND CABINET
- EXISTING SIGNAL HEAD AND POST
- EXISTING MAST ARM ASSEMBLY, SIGNAL HEAD, BACKPLATE
- EXISTING HANDHOLE
- EXISTING GULFBOX JUNCTION
- EXISTING SERVICE INSTALLATION POLE
- EXISTING PEDESTRIAN SIGNAL HEAD
- EXISTING PEDESTRIAN PUSHBUTTON
- EXISTING CONDUIT
- PROPOSED CONTROLLER AND CABINET
- PROPOSED SIGNAL HEAD AND POST
- PROPOSED COMBINATION MAST ARM ASSEMBLY W/ LUMINAIRE, SIGNAL HEAD, BACKPLATE
- PROPOSED HANDHOLE
- PROPOSED DOUBLE HANDHOLE
- PROPOSED PEDESTRIAN SIGNAL HEAD
- PROPOSED PEDESTRIAN PUSHBUTTON
- PROPOSED SERVICE INSTALLATION
- PROPOSED VIDEO DETECTOR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	118

TRAFFIC SIGNAL MODERNIZATION FAP 729 (MAIN ST.) & BUCHANAN STREET



1 NO. 14 4/C, SIG.; 1 NO. 14 5/C, SIG.;
1 NO. 14 7/C, SIG.; 1 NO. 6 1/C, XLP

1 NO. 14 3/C, SIG.;
1 NO. 6 1/C, XLP

25 3 NO. 14 3/C, SIG.; 3 NO. 14 4/C, SIG.;
2 NO. 14 5/C, SIG.; 2 NO. 14 7/C, SIG.;
1 COAXIAL CABLE; 1 NO. 6 1/C, XLP

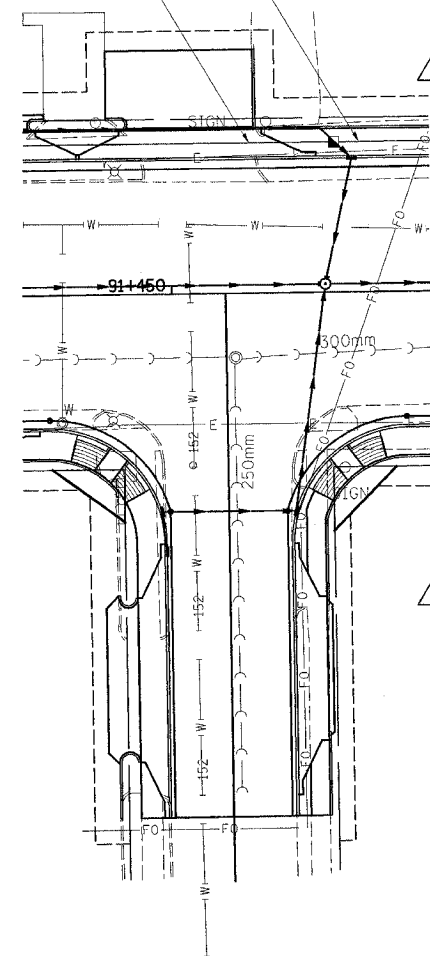
8 NO. 14 3/C, SIG.; 8 NO. 14 4/C, SIG.;
4 NO. 14 5/C, SIG.; 6 NO. 14 7/C, SIG.;
1 NO. 18 3 PR., COMM.; 4 COAXIAL CABLE;
2 NO. 6 1/C, XLP

1 NO. 14 4/C, SIG.; 1 NO. 14 7/C, SIG.;
1 NO. 14 3/C, SIG.; 1 COAXIAL CABLE;
1 NO. 6 1/C, XLP

1 NO. 18, 3 PR., COMM.

1 NO. 18, 3 PR., COMM.

1 NO. 18, 3 PR., COMM.



STA 91+550.402, 1.226 m RT. (US 136) =
STA 20+000 (N BUCHANAN ST)

STA 91+551.169, 1.270 m RT. (US 136) =
STA 21+000 (S BUCHANAN ST)

4 NO. 14 3/C, SIG.; 4 NO. 14 4/C, SIG.;
2 NO. 14 5/C, SIG.; 3 NO. 14 7/C, SIG.;
2 COAXIAL CABLE; 1 NO. 6 1/C, XLP

1 NO. 14 4/C, SIG.; 1 NO. 14 5/C, SIG.;
1 NO. 6 1/C, XLP

1 NO. 14 3/C, SIG.; 1 NO. 6 1/C, XLP

1 NO. 14 4/C, SIG.; 1 NO. 14 7/C, SIG.;
1 NO. 14 3/C, SIG.; 1 COAXIAL CABLE;
1 NO. 6 1/C, XLP

2 NO. 14 3/C, SIG.; 2 NO. 14 4/C, SIG.;
1 NO. 14 5/C, SIG.; 2 NO. 14 7/C, SIG.;
1 COAXIAL CABLE; 1 NO. 6 1/C, XLP

SUGGESTED TIMINGS

PHASE:	1	2	3	4	5	6	7	8
MIN. GREEN	—	16	—	8	—	16	8	14
SEC./ ACT.	—	2	—	2	—	2	2	2
MAX. GRN.	—	30	—	11	—	30	11	22
PASSAGE	—	5.0	—	2.5	—	5.0	2.5	2.5
T.B.R.	—	10	—	—	—	10	—	—
T.T.R.	—	5	—	—	—	5	—	—
MIN. GAP	—	3.0	—	—	—	3.0	—	—
AMB. CLR.	—	3.5	—	3.0	—	3.5	3.0	3.5
RED CLR.	—	1.5	—	1.0	—	1.5	1.0	1.0



2 NO. 14 3/C, SIG.; 2 NO. 14 4/C, SIG.;
1 NO. 14 5/C, SIG.; 1 NO. 14 7/C, SIG.;
1 COAXIAL CABLE; 1 NO. 6 1/C, XLP

1 NO. 14 4/C, SIG.; 1 NO. 14 7/C, SIG.;
1 NO. 14 3/C, SIG.; 1 COAXIAL CABLE;
1 NO. 6 1/C, XLP

1 NO. 14 3/C, SIG.; 1 NO. 14 4/C, SIG.;
1 NO. 14 5/C, SIG.; 1 NO. 6 1/C, XLP

1 NO. 14 4/C, SIG.; 1 NO. 14 7/C, SIG.;
1 NO. 14 3/C, SIG.; 1 COAXIAL CABLE;
1 NO. 6 1/C, XLP

1 NO. 14 3/C, SIG.; 1 NO. 14 4/C, SIG.;
1 NO. 14 5/C, SIG.; 1 NO. 14 7/C, SIG.;
1 NO. 6 1/C, XLP

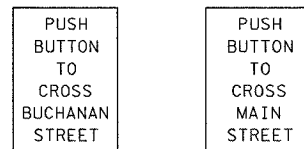
GENERAL NOTES

1. THE CONTROLLER SHALL BE SET TO MINIMUM RECALL U.S. 136.
2. THE FINAL LOCATIONS OF ALL TRAFFIC CONTROL ITEMS SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.
3. COMBINATION MAST ARM ASSEMBLIES SHALL BE FURNISHED WITH 4.6 m DAVIT ARMS WITH A MOUNTED LUMINAIRE HEIGHT OF 10.7 m.
4. TIMINGS SHOWN ARE FOR INITIAL OPERATION AND MAY BE ADJUSTED TO REFLECT SITE CONDITIONS PER APPROVAL OF THE TRAFFIC OPERATIONS ENGINEER.
5. SIGNAL FACES FOR THE NORTH APPROACH ARE NOTED AS "A", "B" FOR THE SOUTH APPROACH, "C" FOR THE WEST APPROACH, AND "D" FOR THE EAST APPROACH.
6. ITEMS REMOVED WILL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED ON THE PLANS. NOTED ITEMS TO BE RETURNED TO THE DEPARTMENT OF TRANSPORTATION SHALL BE STORED ON THE JOBSITE AS DIRECTED BY THE ENGINEER.
7. ALL PAVEMENT MARKING QUANTITIES WILL BE INCLUDED IN THE DESIGN PLANS.
8. A NO. 6 1/C XLP CABLE HAS BEEN FURNISHED TO PROVIDE A BONDED GROUND TO CONNECT ALL TRAFFIC SIGNAL POSTS, POLES, CABINETS, EXPOSED METAL CONDUITS AND HANDHOLES. THE BONDED GROUND SHALL BE CONNECTED AT THE SERVICE INSTALLATION.
9. ALL TRAFFIC SIGNAL MAST ARM ASSEMBLIES MUST BE DESIGNED FOR THE LOADINGS SHOWN ON THE HIGHWAY STANDARDS OR THESE SIGNAL PLANS, WHICHEVER IS GREATER.
10. THE PROPOSED LUMINAIRES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. THE LUMINAIRES WILL BE INSTALLED BY OTHERS WITHIN A SEPARATE LIGHTING CONTRACT.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	119

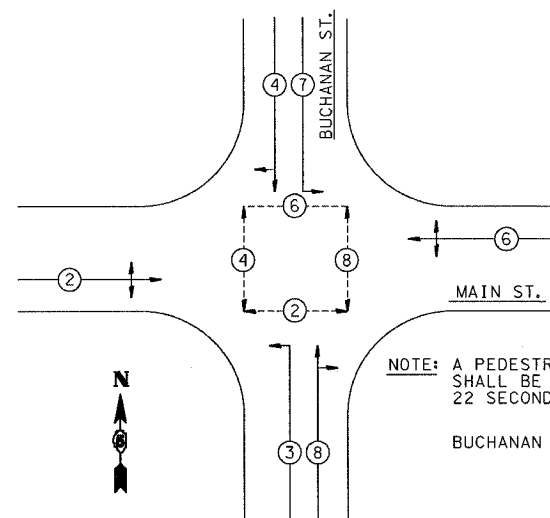
BILL OF MATERIALS
U.S. 136 (MAIN ST.) & BUCHANAN STREET

ITEM	UNIT	QUANTITY
SERVICE INSTALLATION, TYPE B (MODIFIED)	EACH	1
HANDHOLE	EACH	7
DOUBLE HANDHOLE	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	2
TRAFFIC SIGNAL BACKPLATE	EACH	8
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	5
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
CONDUIT IN TRENCH, 40MM DIA., PVC	METER	186
CONDUIT IN TRENCH, 50MM DIA., PVC	METER	21
CONDUIT IN TRENCH, 75MM DIA., PVC	METER	19
CONDUIT IN TRENCH, 100MM DIA., PVC	METER	15
CONDUIT IN TRENCH, 150MM DIA., PVC	METER	2
CONDUIT, AUGERED 75MM DIA., PVC	METER	24
CONDUIT, AUGERED 100MM DIA., PVC	METER	19
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	243
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	METER	395
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 4C	METER	357
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	METER	238
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	METER	383
ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 18 3 PAIR	METER	272
TRAFFIC SIGNAL POST, ALUMINUM 4.25 METER	EACH	2
TRAFFIC SIGNAL POST, ALUMINUM 4.85 METER	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 9.75 METER	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 10.97 METER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 11.58 METER	EACH	1
CONCRETE FOUNDATION, TYPE A	METER	3.7
CONCRETE FOUNDATION, TYPE D	METER	1.1
COAXIAL CABLE IN CONDUIT	METER	220
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	METER	149
CONCRETE FOUNDATION, TYPE E 900MM DIAMETER	METER	13.6
VIDEO VEHICLE DETECTION SYSTEM	EACH	1
SIGNAL HEAD ,POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD ,POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD ,POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD ,POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED	EACH	8



NOTE: PEDESTRIAN PUSH-BUTTON SIGNS SHALL BE MOUNTED ABOVE THE PEDESTRIAN PUSH-BUTTONS. THE SIGNS SHALL BE BOLTED TO THE POSTS. THE SIGNS SHALL BE CONSIDERED AS INCLUDED IN THE COST OF PEDESTRIAN PUSH-BUTTONS IN ACCORDANCE WITH SECTION 888 OF THE STANDARD SPECIFICATIONS.

PEDESTRIAN PUSH-BUTTON SIGN DETAIL



NOTE: A PEDESTRIAN CLEARANCE INTERVAL OF 17 SECONDS SHALL BE USED FOR PHASE 2; 23 SECONDS FOR PHASE 4; 22 SECONDS FOR PHASE 6; 25 SECONDS FOR PHASE 8.

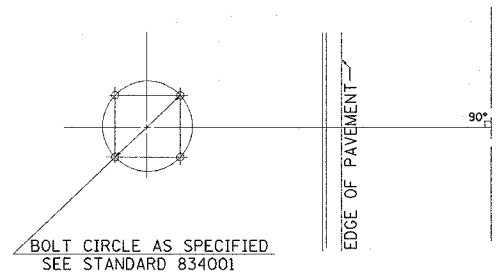
BUCHANAN ST. SHALL BE SPLIT PHASE.

PHASE DESIGNATION DIAGRAM

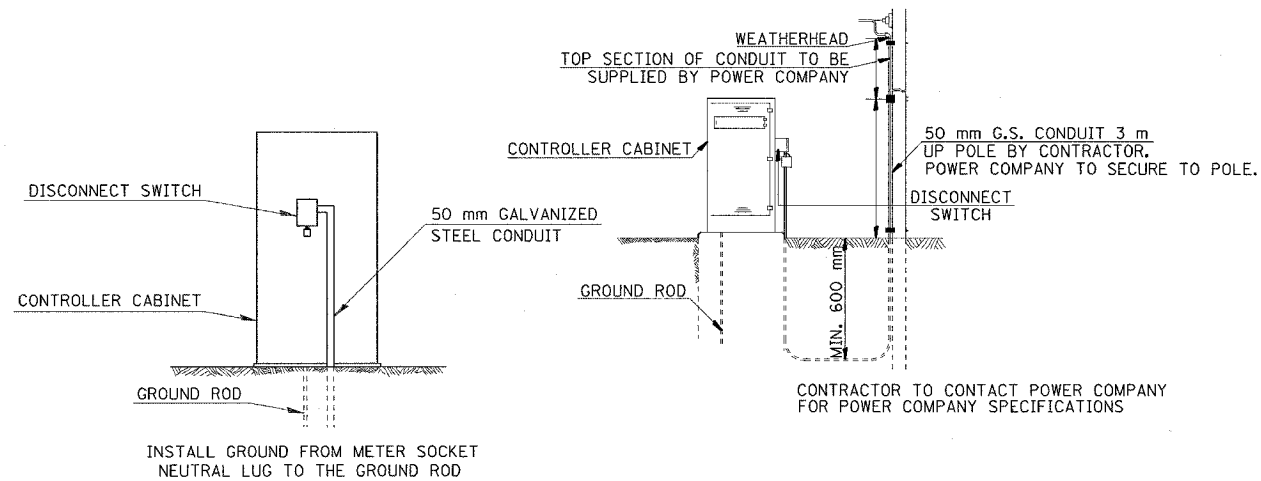
GENERAL NOTES

1. THE FOLLOWING SIGNAL HEADS SHALL BE WIRED IN PARALLEL AT THE MAST POLE HANDHOLE: (A2, A3), (B2, B3), (C2, C3), (D2, D3) - EACH MAST ARM MOUNTED SIGNAL HEAD SHALL HAVE ITS OWN INDIVIDUAL CABLE FROM THE MAST POLE HANDHOLE TO THE SIGNAL HEAD.
2. THE ACTUAL LOCATION OF ALL SIGNAL FOUNDATIONS, HANDHOLES, AND TRAFFIC CONTROLLER WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
3. POST MOUNTED SIGNALS SHALL BE INSTALLED SO THAT NO PART OF THE SIGNAL HEAD IS WITHIN 600 mm OF THE FACE OF CURB.
4. ALL MAST ARM POLES SHALL BE A MINIMUM OF 1.8 m FROM THE CENTER OF THE POLE TO THE FACE OF CURB (ON THE MAST ARM SIDE) OR AS SHOWN ON THE PLANS.
5. ALIGN ADJACENT RED INDICATIONS TO SAME HEIGHT ABOVE PAVEMENT.
6. THE BASE FOR A TRAFFIC SIGNAL POST SHALL BE SITUATED SUCH THAT THE HANDHOLE IS LOCATED ON A SIDE AWAY FROM A TRAVELED LANE.
7. PEDESTRIAN PUSHBUTTON SIGNAL SIGNS SHALL BE MOUNTED ABOVE THE APPROPRIATE PEDESTRIAN PUSHBUTTON.
8. THE ANTI-BACKUP FEATURE SHALL BE HARDWIRED ON THE BACKPANEL OF THE CONTROLLER CABINET.

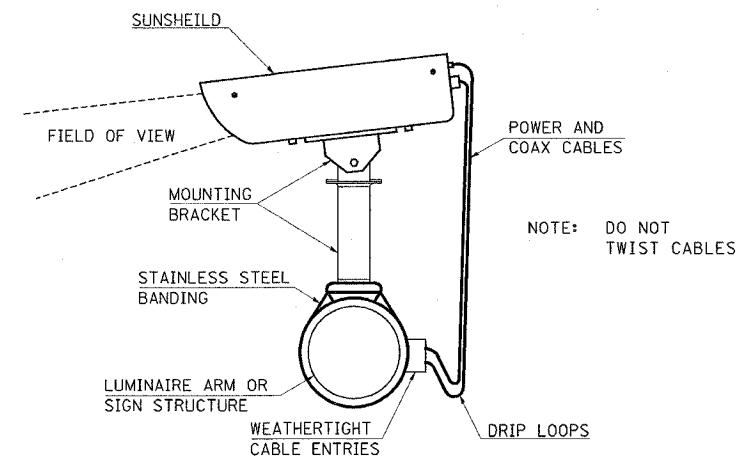
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	120



**DETAIL OF MAST ARM FOUNDATION
BOLT PATTERN**



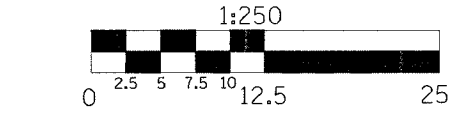
DETAIL OF SERVICE INSTALLATION, TYPE B (MODIFIED)



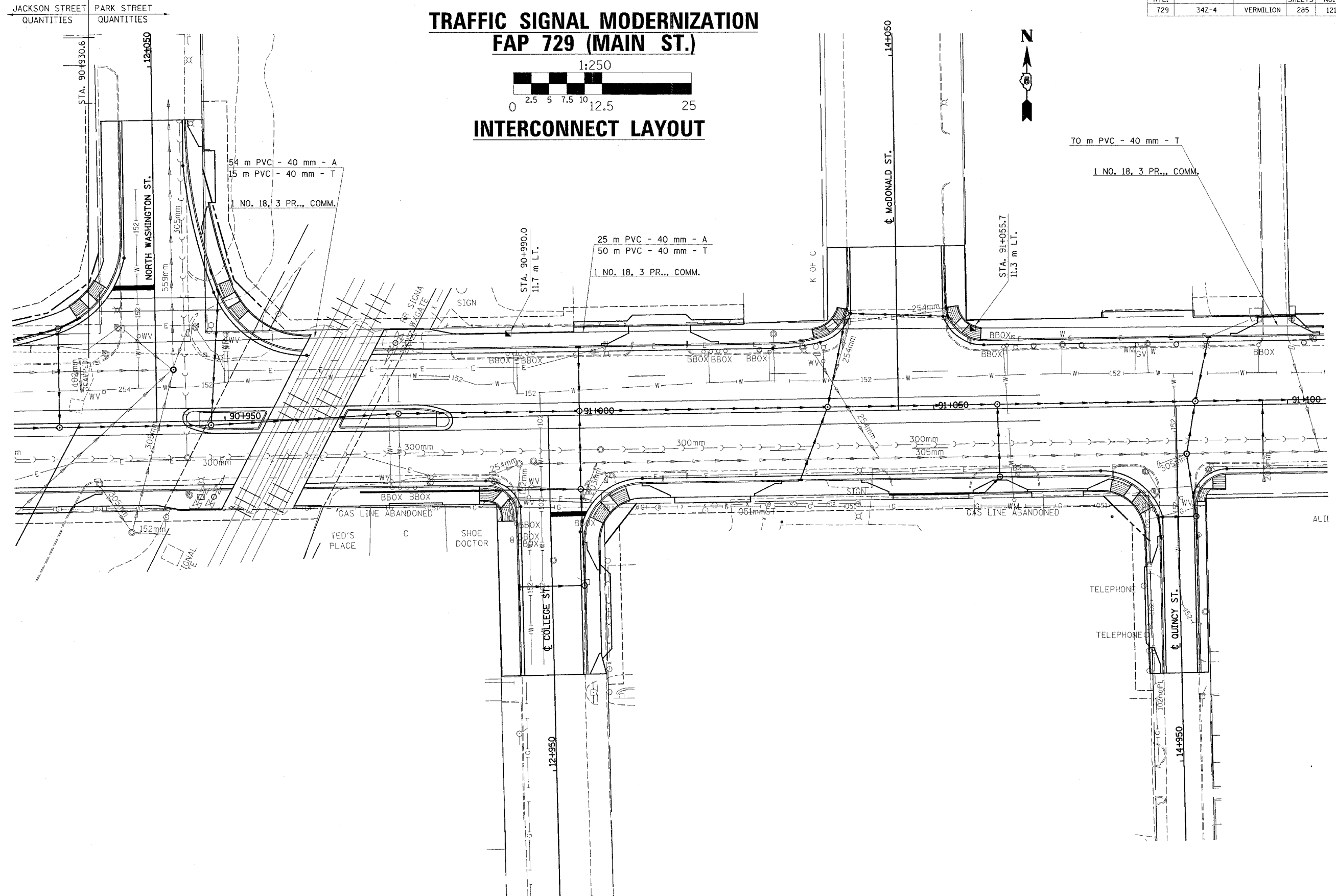
VIDEO CAMERA MOUNTING DETAIL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	121

TRAFFIC SIGNAL MODERNIZATION FAP 729 (MAIN ST.)

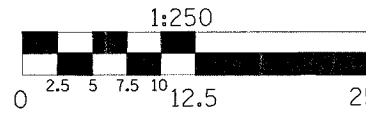


INTERCONNECT LAYOUT

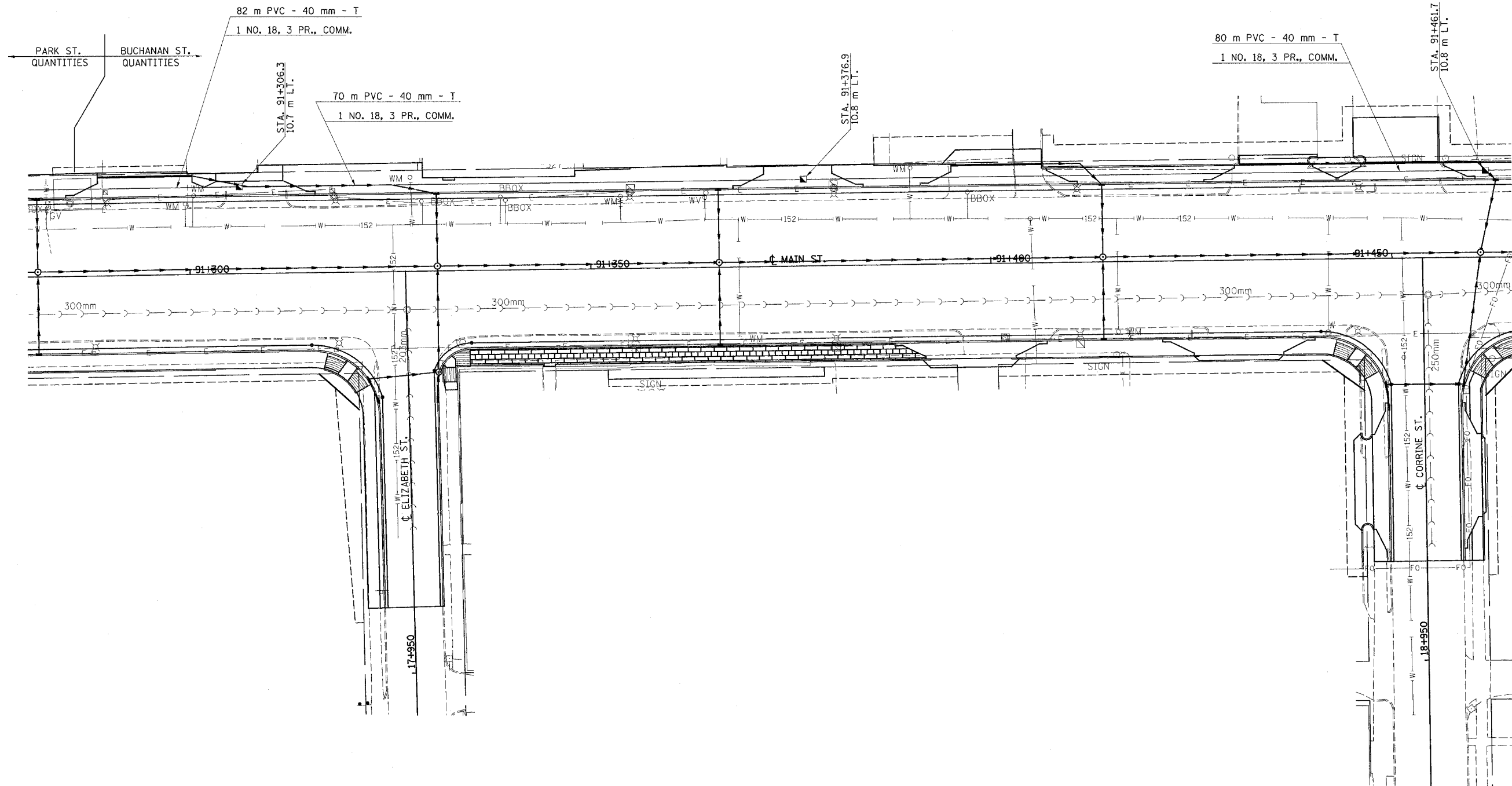


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	122

TRAFFIC SIGNAL MODERNIZATION FAP 729 (MAIN ST.)



INTERCONNECT LAYOUT



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	123
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

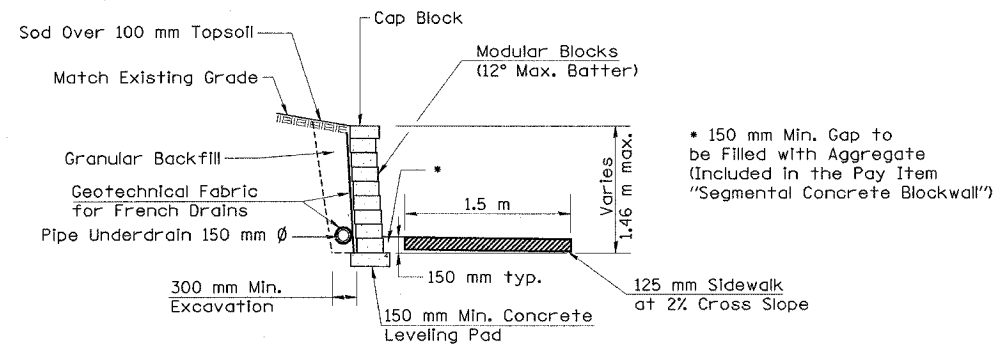
GENERAL NOTES

- BLOCK RETAINING WALLS SHALL BE CONSTRUCTED TO MANUFACTURER'S SPECIFICATIONS AND TO THE APPROVAL OF THE ENGINEER.
- THE SCHEMATIC REPRESENTATION SHOWN IN THE DRAWINGS IS ARBITRARY. APPROPRIATE ADJUSTMENTS SHALL BE MADE TO SUIT THE MANUFACTURER'S PRODUCT SIZE.
- ALL DIMENSIONS ARE IN MILLIMETERS (mm) EXCEPT AS NOTED.
- THIS WORK, INCLUDING EXCAVATION, GRANULAR BACKFILL, CONCRETE BLOCKS, CONCRETE LEVELING PAD, PERFORATED PIPE UNDERDRAINS, GRAVEL, GEOTECHNICAL FABRIC FOR FRENCH DRAINS, AND OTHER ACCESSORIES SHALL BE INCLUDED IN THE PAY ITEM "SEGMENTAL CONCRETE BLOCK WALL".

LIST OF MATERIALS

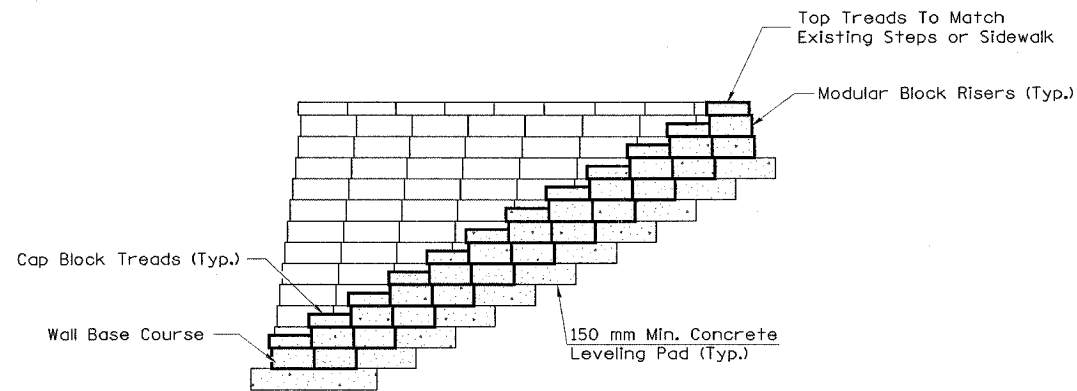
STATION TO STATION	BLOCK WALLS					150 mm MIN. CONCRETE LEVELING PAD	CAP BLOCK	PIPE UNDERDRAINS 150 mm	PIPE UNDERDRAINS 150 mm (SPECIAL)	SEGMENTAL CONCRETE BLOCK WALL
	3 COURSE	4 COURSE	5 COURSE	6 COURSE	7 COURSE					
	METERS					M	M	M	M	SQ. M
90+408.09 to 90+448.00 RT	5.87	11.17	22.93	---	---	40.3	40.0	40.0	2.8	30.6
91+354.64 to 91+377.26 RT	---	3.12	1.50	7.13	10.85	23.2	22.6	22.6	2.8	23.2
91+501.26 to 20+977.36 RT	6.13	28.52	1.37	6.29	2.77	52.9	45.1	48.9	6.1	34.0
TOTAL	12.00	42.81	25.80	13.42	13.62	116.4	107.7	111.5	11.7	87.8

• S. Buchanan St.



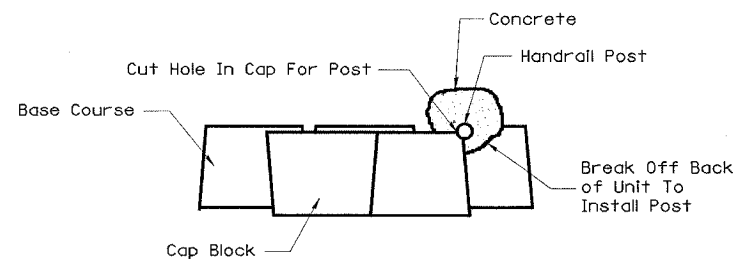
TYPICAL SECTION - UNREINFORCED RETAINING WALL

NO SCALE



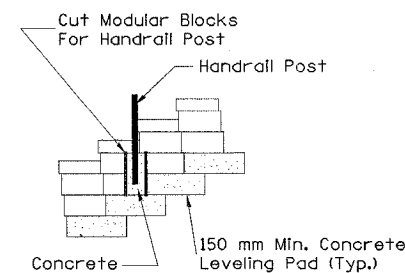
TYPICAL SECTION - BLOCK STEPS

NO SCALE



HANDRAIL POST DETAIL - PLAN

(ONLY AT BLOCK STEPS REQUIRING HANDRAIL)



HANDRAIL POST - ELEVATION

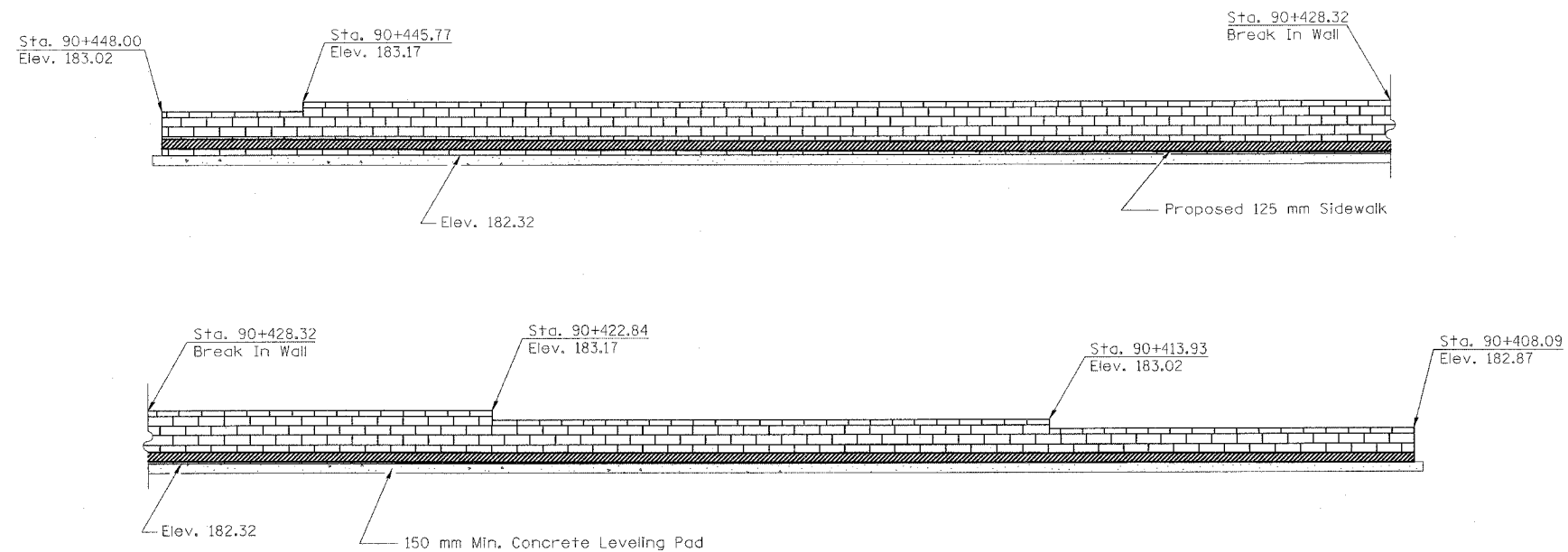
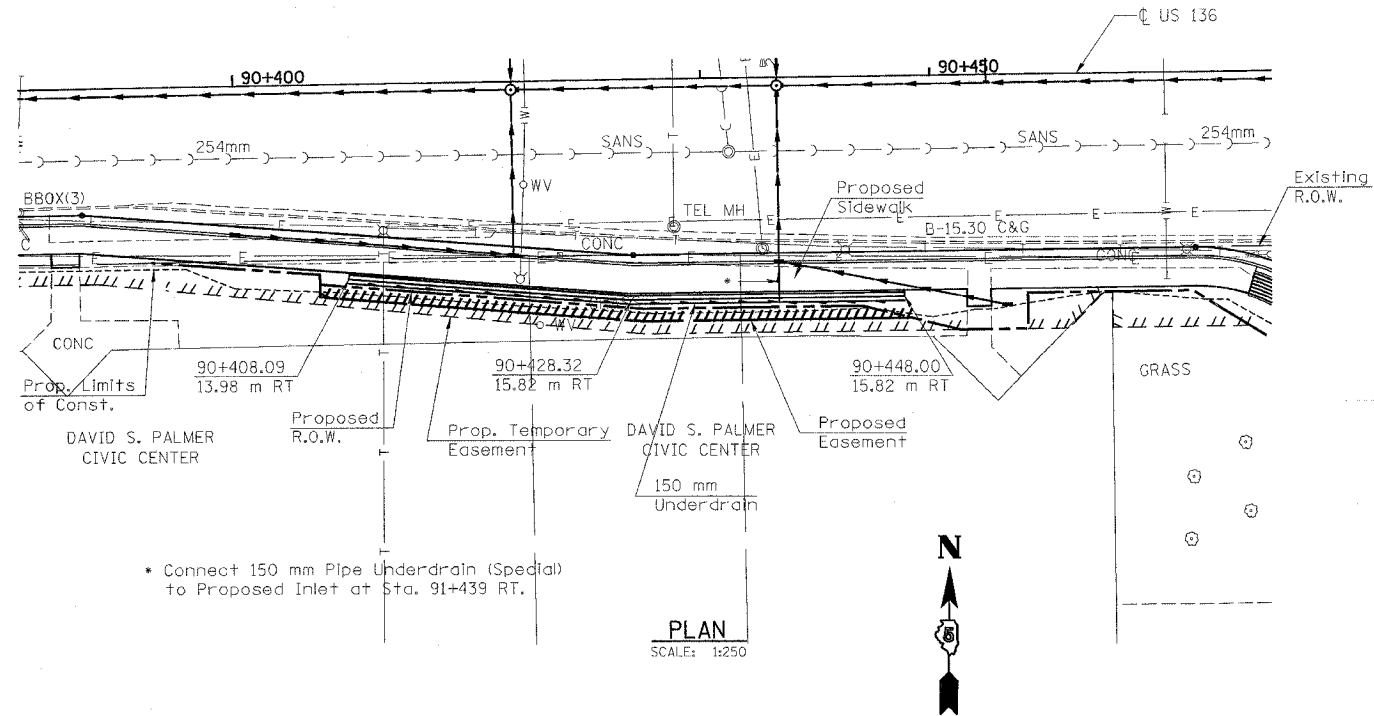
STATION	BLOCK STEPS						150 mm MIN. CONCRETE LEVELING PAD	CAP BLOCK	SEGMENTAL CONCRETE BLOCK WALL
	1 COURSE	2 COURSE	3 COURSE	4 COURSE	5 COURSE	6 COURSE			
	METERS						M	M	SQ. M
91+519.4 RT	1.63	7.09	0.57	0.57	1.22	---	13.2	10.9	5.0
91+529.2 RT	1.63	8.72	0.57	0.57	0.57	1.22	15.8	13.0	6.3
91+535.8 RT	2.44	12.77	0.57	0.57	0.57	1.22	20.6	17.9	8.1
TOTAL	5.70	28.58	1.71	1.71	2.36	2.44	49.6	41.8	19.4

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
SEGMENTAL CONCRETE BLOCK WALL	SQ. M.	107.2
PIPE UNDERDRAINS, 150 mm	M	111.5
PIPE UNDERDRAINS, 150 mm (SPECIAL)	M	11.7

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p>BLOCK RETAINING WALL DETAILS U.S. ROUTE 136</p> <p>SCALE --- DRAWN BY MTH DATE 5/03 CHECKED BY KRG</p>

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	124
STA. 90+408.09		TO STA. 90+448.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

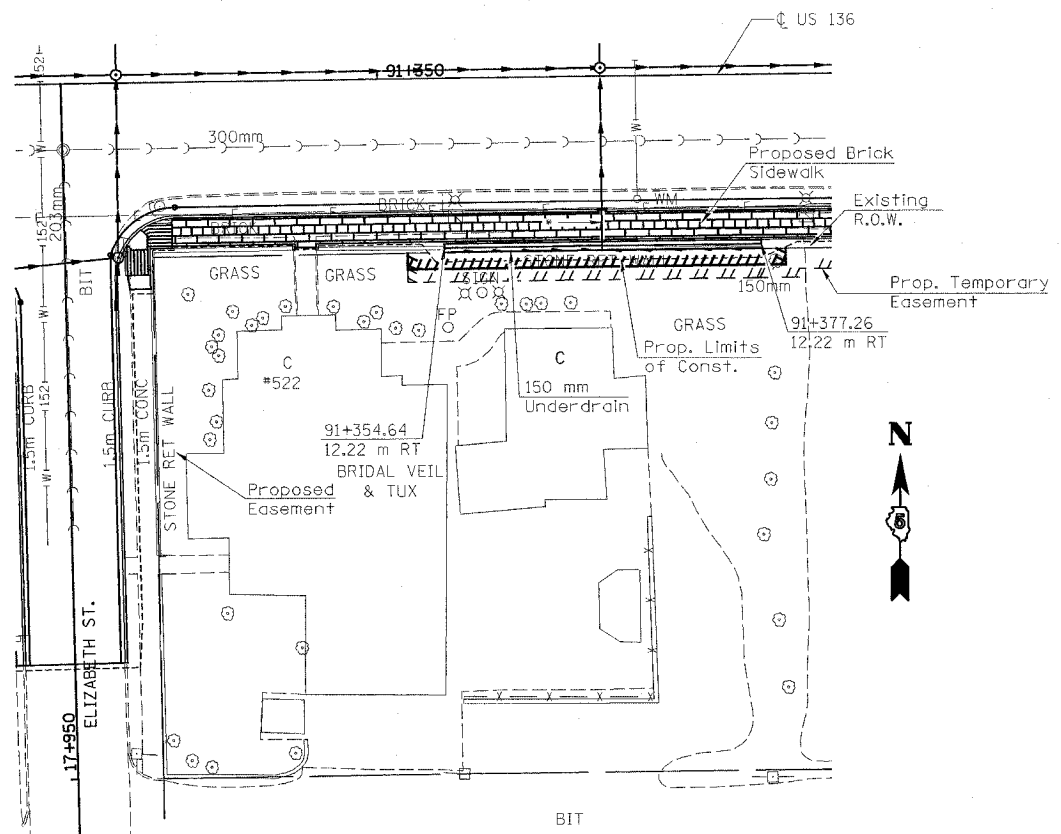


NOTES

- Offsets Refer to the Distance from \downarrow Roadway to the Back Face of the Lowest Block of the Retaining Wall at the Given Station.
- Refer to Sheet for Typical Cross-Section of the Block Retaining Wall.

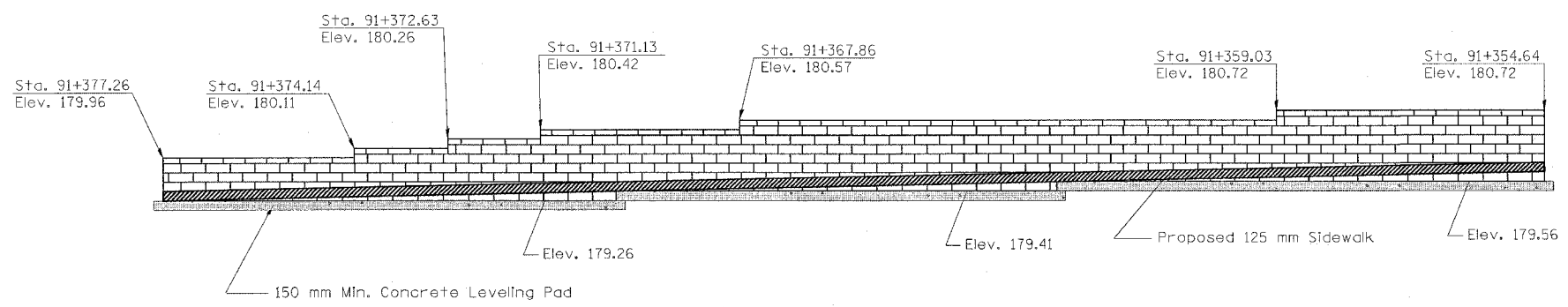
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION BLOCK RETAINING WALL DETAILS U.S. ROUTE 136
NAME	DATE	
		SCALE --- DATE 5/03 DRAWN BY MTH CHECKED BY KRG

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	342-4	VERMILION	285	125
STA. 17+965.96		TO STA. 91+377.27		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PLAN
SCALE: 1:250

* Connect 150 mm Pipe Underdrain (Special) to Proposed Inlet at Sta. 91+366 RT.



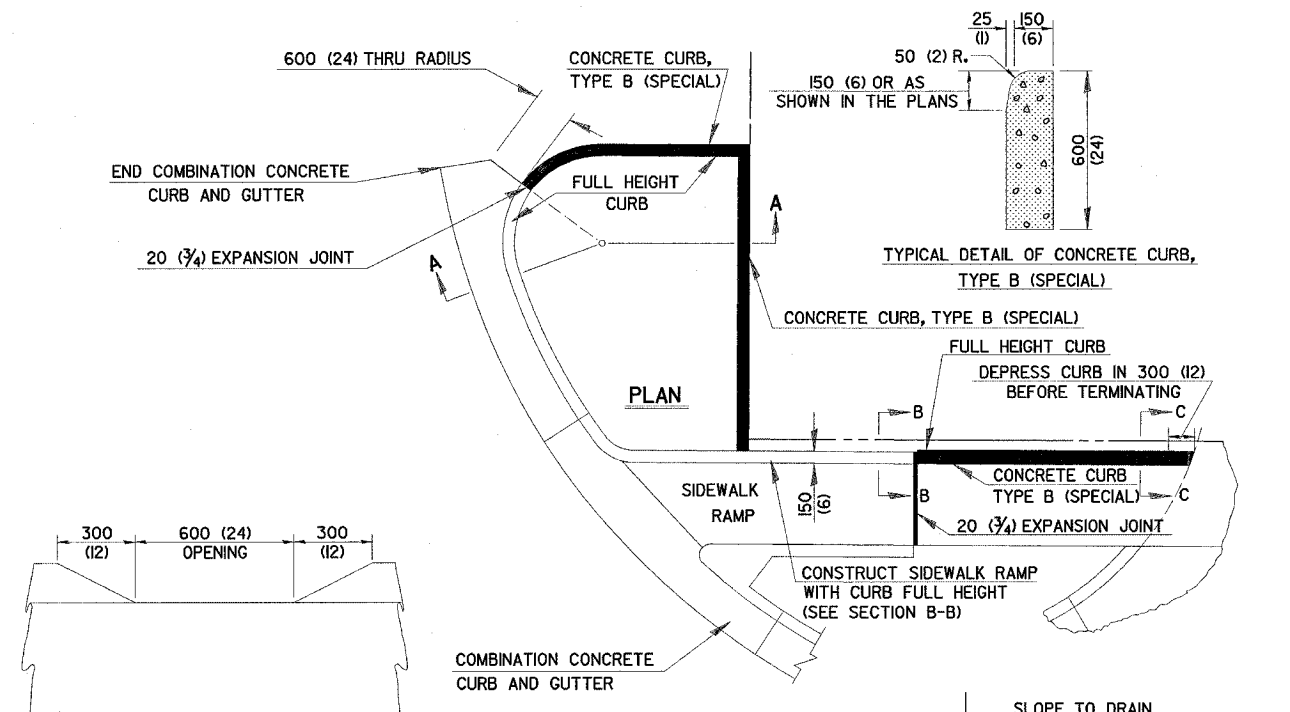
ELEVATION
SCALE: 1:50
(Looking From \odot US 136)

- NOTES**
- Offsets Refer to the Distance from \odot Roadway to the Back Face of the Lowest Block of the Retaining Wall at the Given Station.
 - Refer to Sheet for Typical Cross-Section of the Block Retaining Wall.

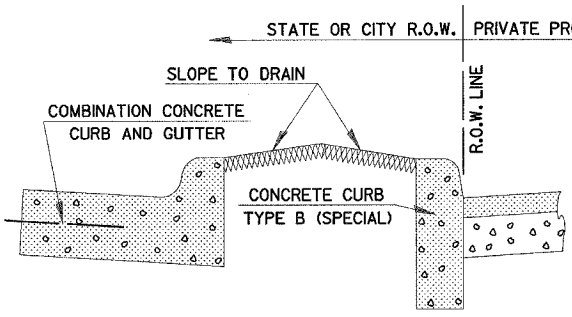
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION BLOCK RETAINING WALL DETAILS U.S. ROUTE 136
NAME	DATE	
		SCALE --- DATE 5/03 DRAWN BY MTH CHECKED BY KRG

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	127
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

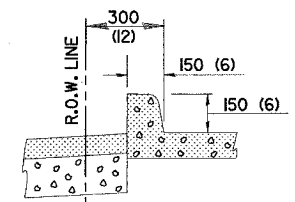
TYPICAL APPLICATIONS OF CONCRETE CURB, TYPE B (SPECIAL)



SECTION SHOWING DRAINAGE OPENINGS @ 4.5 m (15'-0") CENTERS WHEN REQUIRED



SECTION A-A CURB DETAIL ADJACENT TO EXISTING OR RECONSTRUCTED PARKING LOTS



SECTION B-B SIDEWALK CURB DETAIL ONLY WHEN ABUTTING FULL HEIGHT CURB

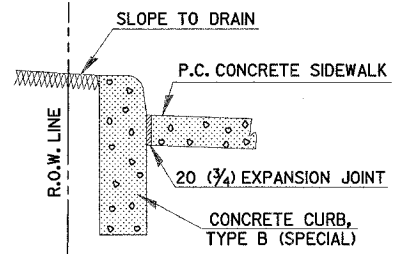
All dimensions are in millimeters (inches) unless otherwise shown.

DESIGNED	NAME	DATE	REVISIONS	NAME	DATE
CHECKED	J.H.M.	3-85		G.A.M.	11-95
CADD NO.	F.M.S.	7-85		D.L.P.	10-96
	A-L06				

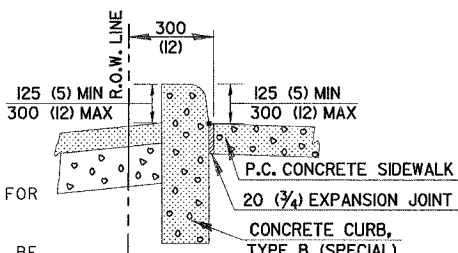
200012001

GENERAL NOTES

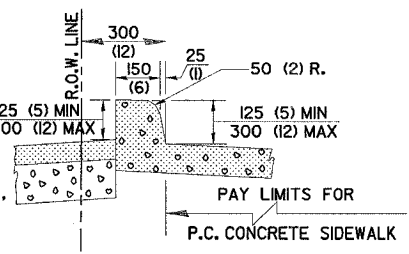
1. THE APPLICABLE GENERAL NOTES FOR STANDARD 606001 (2130) SHALL APPLY.
2. THE ENGINEER'S APPROVAL SHALL BE OBTAINED IN WRITING BEFORE THE OPTIONAL METHOD OF CONSTRUCTION WILL BE ALLOWED. IF APPROVED, THE MONOLITHIC CURB WILL ALSO BE PAID FOR PER METER (LIN. FT.).
3. ACTUAL APPLICATIONS WILL ALSO BE SHOWN ON THE STATION CROSS-SECTIONS.
4. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER METER (LIN. FT.) (EITHER METHOD) FOR CONCRETE CURB, TYPE B (SPECIAL) WHICH PRICE SHALL BE PAYMENT IN FULL FOR ALL LABOR AND MATERIAL AS SPECIFIED INCLUDING EXCAVATION, THE 20 mm (3/4 ") EXPANSION JOINTS, SAW CUTTING EXISTING PARKING LOTS WHEN REQUIRED, THE DRAINAGE OPENINGS WHEN REQUIRED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.



SECTION C-C CURB DETAIL ADJACENT TO EARTHFILL

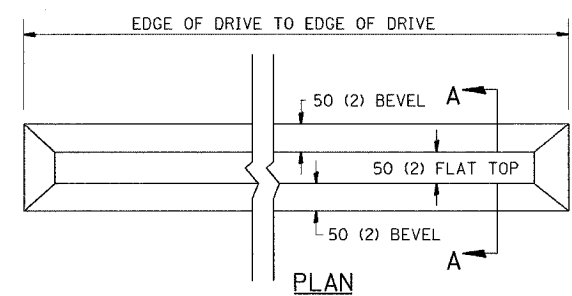


SECTION C-C CURB DETAIL ADJACENT TO EXISTING OR RECONSTRUCTED PARKING LOTS

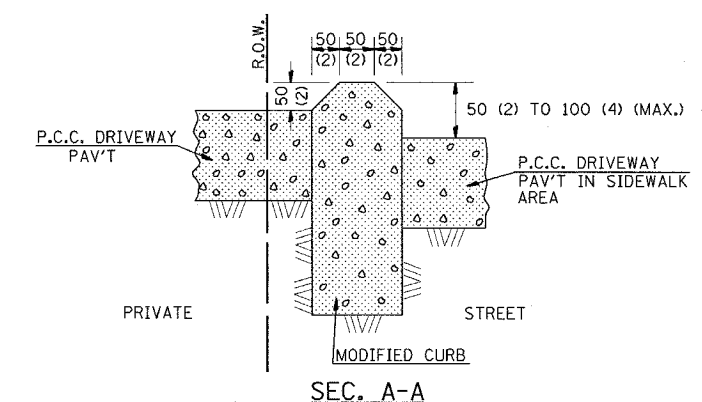


SECTION C-C OPTIONAL METHOD OF CONSTRUCTION MONOLITHIC WITH P.C. CONCRETE SIDEWALK ONLY

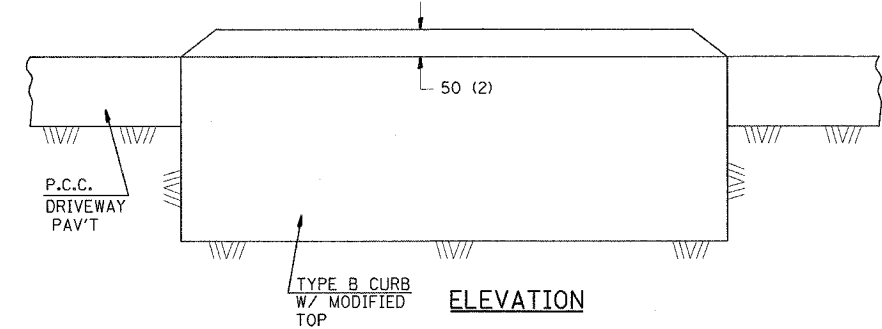
MODIFIED CURB FOR NARROW RIGHT OF WAY DRIVEWAY SEPARATION



PLAN



SEC. A-A



ELEVATION

NOTES:

1. THIS MODIFIED CURB WILL BE MEASURED AND PAID FOR AS "CONCRETE CURB, TYPE B (SPECIAL)".
2. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

* NOT TO SCALE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

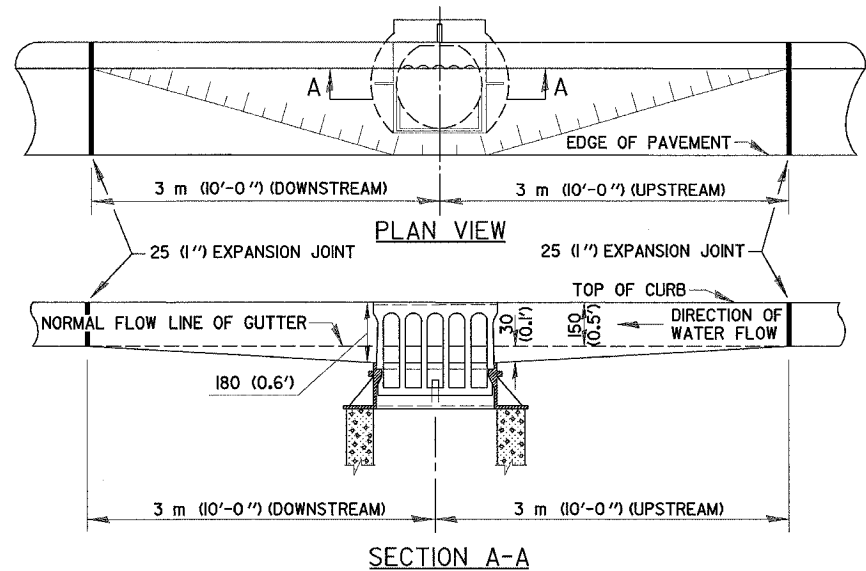
DISTRICT DETAILS

DATE MAY 03

DRAWN BY _____
CHECKED BY _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	128
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DETAIL OF DEPRESSING GUTTER GRADE AT INLETS, CATCH BASINS AND MANHOLES



GENERAL NOTES

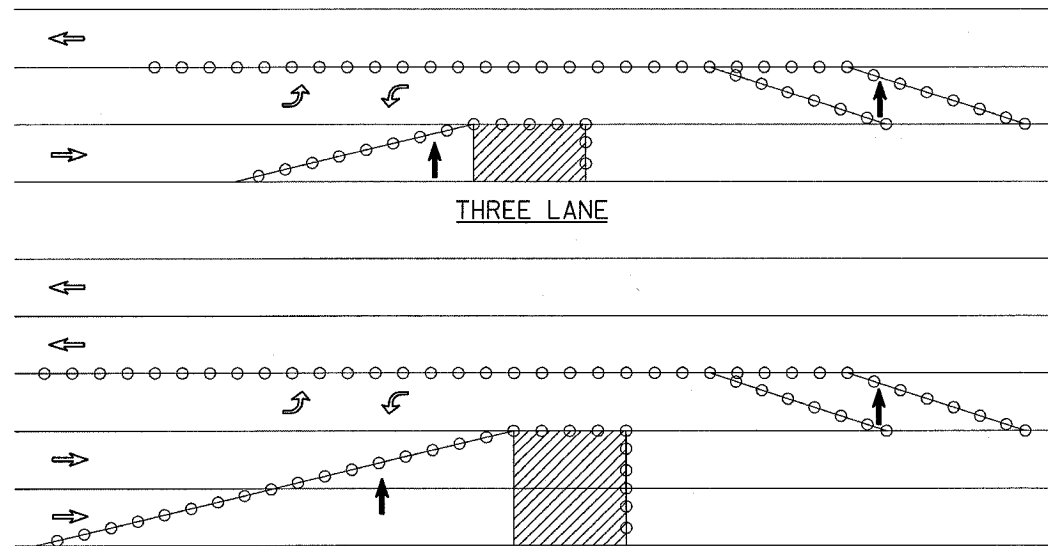
1. THE TWO EXPANSION JOINTS AS MENTIONED IN THE DRAINAGE OPENING PARAGRAPH ON STD. 606001 (2130) SHALL BE PLACED AS SHOWN ABOVE.
2. THE GUTTER GRADE SHALL BE DEPRESSED AT ALL INLETS, CATCH BASINS AND MANHOLES UNLESS OTHERWISE SPECIFIED IN THE PLANS.
3. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE VARIOUS PAY ITEMS OF WORK INVOLVED.
4. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

DESIGNED	NAME	DATE
J.M.H.	J.M.H.	11/87
CHECKED	F.M.S.	11/87
CADD NO.	A-131	

REVISIONS	
NAME	DATE
J.M.H.	7/88
D.L.P.	5/96
D.L.P.	10/96

SPECIAL DETAIL FOR TRAFFIC CONTROL

(REFER TO STANDARD 701606 FOR SPACING & SYMBOLS)

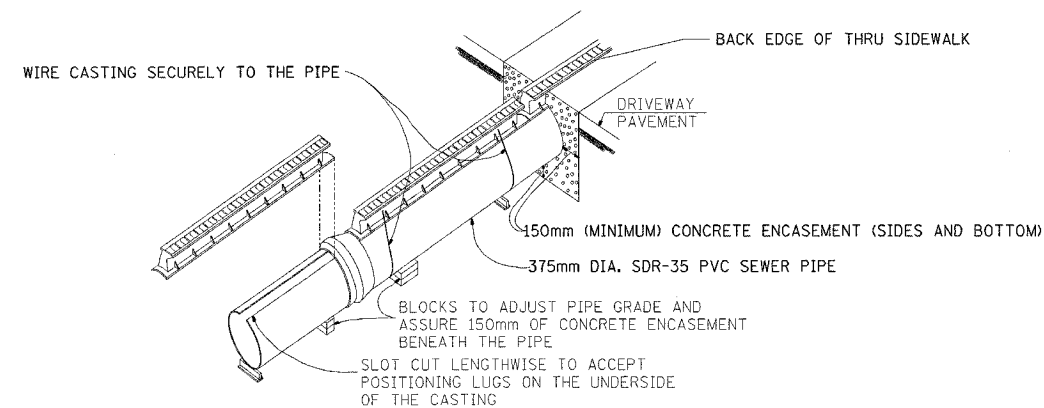
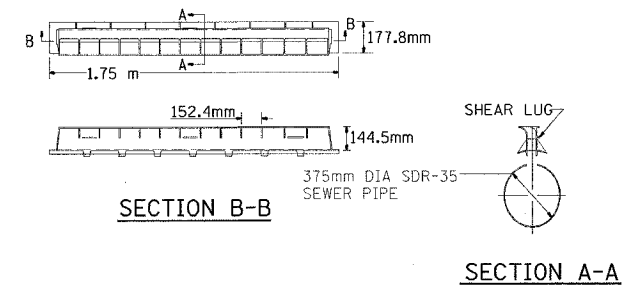


ALL ITEMS COVERED BY THIS DETAIL SHALL BE INCLUDED IN THE UNIT PRICE FOR STANDARD 701606. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

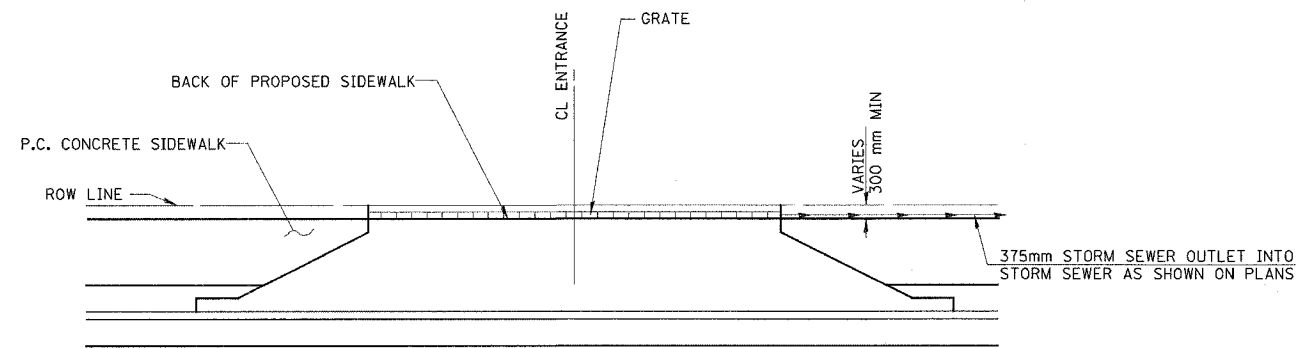
- ← ARROWBOARD
- CONES, DRUMS, OR BARRICADES
- ▨ WORK AREA

DESIGNED		NAME		DATE	
CENTRAL OFFICE	D.L.P.	D.L.P.	R.M.H.	10/96	12/97
CHECKED	D.L.P.	4/3/96	D.L.P.	7/98	
CADD NO.	F-5.06				

DETAIL OF VANE DRAIN



ELEVATION



PLAN

NOTES: THE GRATES SHALL BE NEENAH R-3599 OR EQUIVALENT THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER METER FOR VANE DRAIN, WHICH PRICE SHALL BE PAYMENT IN FULL FOR ALL LABOR AND MATERIAL NECESSARY FOR THE INSTALLATION OF THE VANE DRAIN. THE STORM SEWER SHALL BE PAID FOR SEPARATELY.

THE PROPOSED STORM SEWER SHALL BE PLUGGED ON THE UPSTREAM END WHERE APPLICABLE.

THE 375MM DIAMETER SDR-35 PVC STORM SEWER PIPE SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER METER AS STORM SEWER, CLASS B, TYPE 1, 375MM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

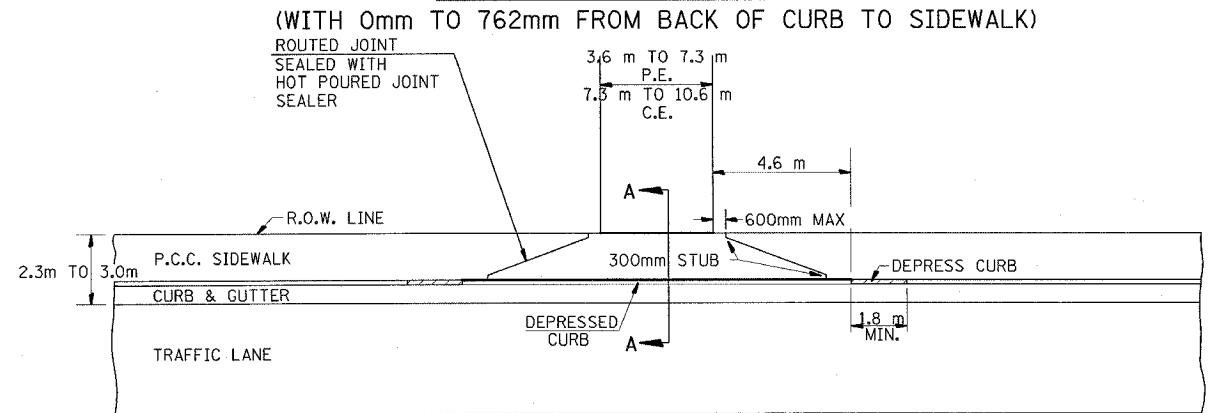
DISTRICT DETAILS

DATE MAY 03

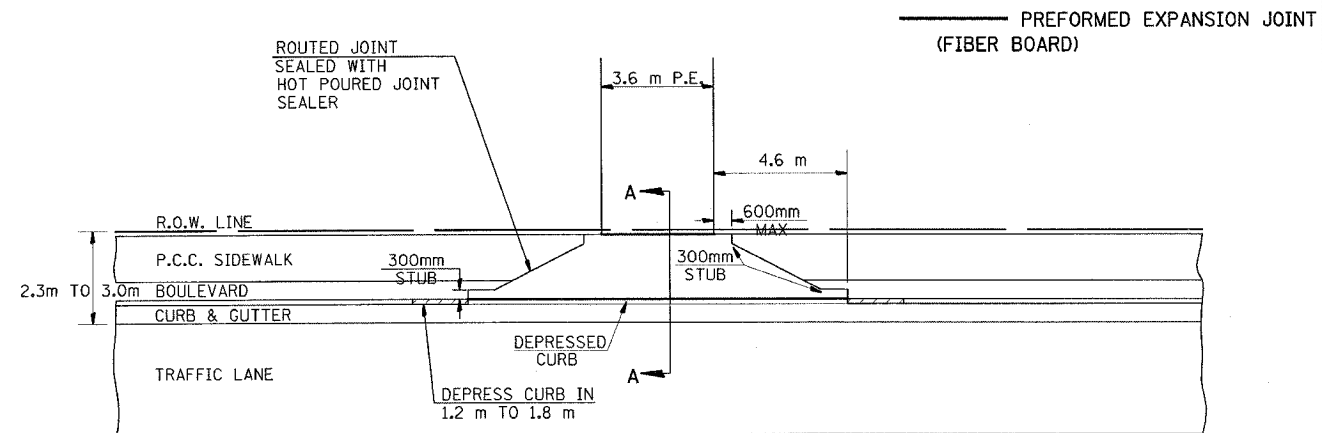
DRAWN BY
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	129
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

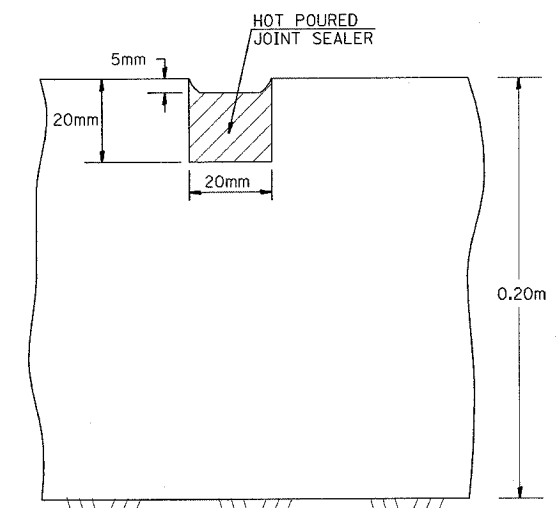
TYPICAL PRIVATE OR COMMERCIAL ENTRANCE ON NARROW RIGHT OF WAY



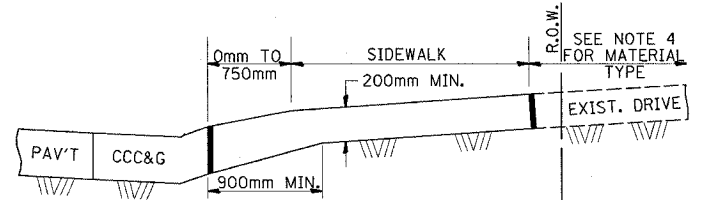
(PLAN WITHOUT BOULEVARD)



(PLAN WITH BOULEVARD)



DETAIL OF SAWED OR ROUTED JOINT



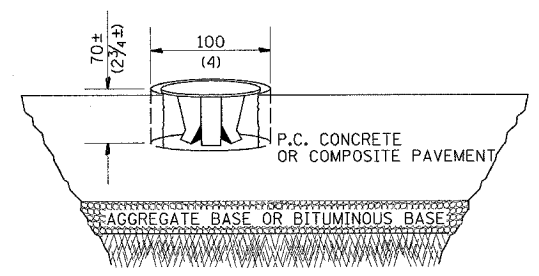
SECTION A-A

GENERAL NOTES

1. THIS LONGITUDINAL CURB EXPANSION JOINT SHALL BE PLACED ONLY WHERE THE PROPOSED PC CONCRETE SIDEWALK OR DRIVEWAY PAVEMENT MEETS AN EXISTING CONCRETE ENTRANCE.
 2. THE LONGITUDINAL CURB EXPANSION JOINT SHALL CONFORM TO SECTION 1051 (751) OF THE STANDARD SPECIFICATION.
 3. THICKEN SIDEWALK FROM 125 mm TO 200 mm WITHIN LIMITS OF DRIVEWAY.
 4. CONSTRUCTION BEHIND SIDEWALK SHALL BE:
 - EXISTING AGGREGATE ENTRANCES- AGGREGATE SURFACE COURSE, TYPE A, 200 mm
 - EXISTING PCC ENTRANCE- PCC DRIVEWAY PAVEMENT, 200 mm
 - EXISTING BITUMINOUS OR OIL AND CHIP ENTRANCE- AGGREGATE BASE COURSE, TYPE A, 150 mm WITH INCIDENTAL BITUMINOUS SURFACING, 75 mm
- 2% MAX SIDEWALK CROSS-SLOPE SHALL BE CARRIED ACROSS ALL PROPOSED ENTRANCES UNLESS OTHERWISE SHOWN.
- SIDEWALK THROUGH ENTRANCES SHALL BE PAID FOR PER SQUARE METER AS PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm AS SPECIFIED IN SECTION 424 OF THE STANDARD SPECIFICATIONS.

PERMANENT SURVEY MARKERS (SPECIAL)

TO BE USED IN "NEW" RIGID OR COMPOSITE PAVEMENT FOR SETTING EXISTING CENTERLINE CONTROL POINTS.



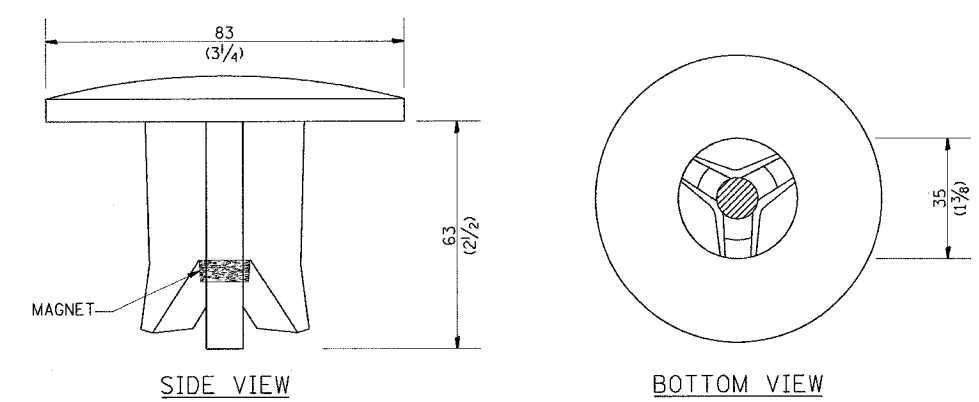
GENERAL NOTES

1. WORK ON THIS ITEM SHALL NOT START UNTIL THE FINAL SURFACE IS COMPLETED.
2. THE ALUMINUM TABLET (FORKED) SHALL REST UPON THE BOTTOM OF THE 100 mm (4") CORE HOLE. IF THE HOLE IS TOO DEEP, EPOXY GROUT MUST BE USED TO DECREASE THE DEPTH AND ALLOWED TO HARDEN BEFORE PROCEEDING.
3. THE ALUMINUM TABLET SHALL BE ANCHORED IN THE 100 mm (4") DIAMETER HOLE IN THE NEW PAVEMENT WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01 (725.01) OF THE STANDARD SPECIFICATIONS.
4. THE 100 mm (4") CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
5. THE CONTRACT PRICE, EACH, FOR SURVEY MARKER, TYPE 2 (SPECIAL) SHALL BE PAYMENT IN FULL FOR FURNISHING THE ALUMINUM TABLET AND ALL LABOR AND MATERIAL TO SET THE MARKER IN PLACE, AS SPECIFIED, INCLUDING CORING THE NEW PAVEMENT.
6. ALL SURVEY MARKERS, TYPE 2 (SPECIAL) SHALL BE PLACED ± 6 mm (1/4") BELOW THE FINAL SURFACE.

SPECIFICATIONS FOR ALUMINUM TABLET (FORKED)

ALUMINUM TABLET (FORKED) FOR USE WITH "SURVEY MARKER, TYPE 2, (SPECIAL)" SHALL BE AS SHOWN ON THE DETAIL FOR THE 83 mm (3 1/4") CONVEX SURVEY TABLET WITH ILLINOIS DEPARTMENT OF TRANSPORTATION LOGO. THIS LOGO SHALL PROVIDE FOR LETTERS RECESSED INTO THE SURFACE A MINIMUM OF 0.8 mm (1/32") FOR EASY AND LONG-TERM LEGIBILITY. THE ALUMINUM TABLET SHALL BE PRODUCED BY THE PROCESS OF ORBITAL FORGING TO PRODUCE A HIGH-STRENGTH AND DURABLE MARKER CAP WHICH WILL NOT CHIP OR BREAK AND PROVIDE A SMOOTH FINISH FOR STAMPING OF DATA IN THE FIELD. THE ALUMINUM TABLET SHALL BE DESIGNED NOT TO TURN OR ROTATE. THREE PRONGS ON A 63 mm (2 1/2") STEM SHALL BE SUCH THAT THE ALUMINUM TABLET CANNOT BE EASILY REMOVED.

COMPOSITION: ALUMINUM 92-93%; MAGNESIUM 6.5-7.5%.
 STRENGTH: YIELD--131-145 MPa (19,000-21,000 PSI);
 TENSIL--262-303 MPa (38,000-44,000 PSI); ELONGATION--10-15%
 (IN 50 mm (2")]. SPECIFICATIONS: ALLOY 535.0; QQ-A-601ES.
 NO EXCEPTIONS.



DIMENSIONS SHOWN SHALL BE EXACT, OTHERS MAY VARY, BUT SHALL BE SHOWN ON SHOP DRAWINGS.
 All dimensions are in millimeters (Inches) unless otherwise shown.

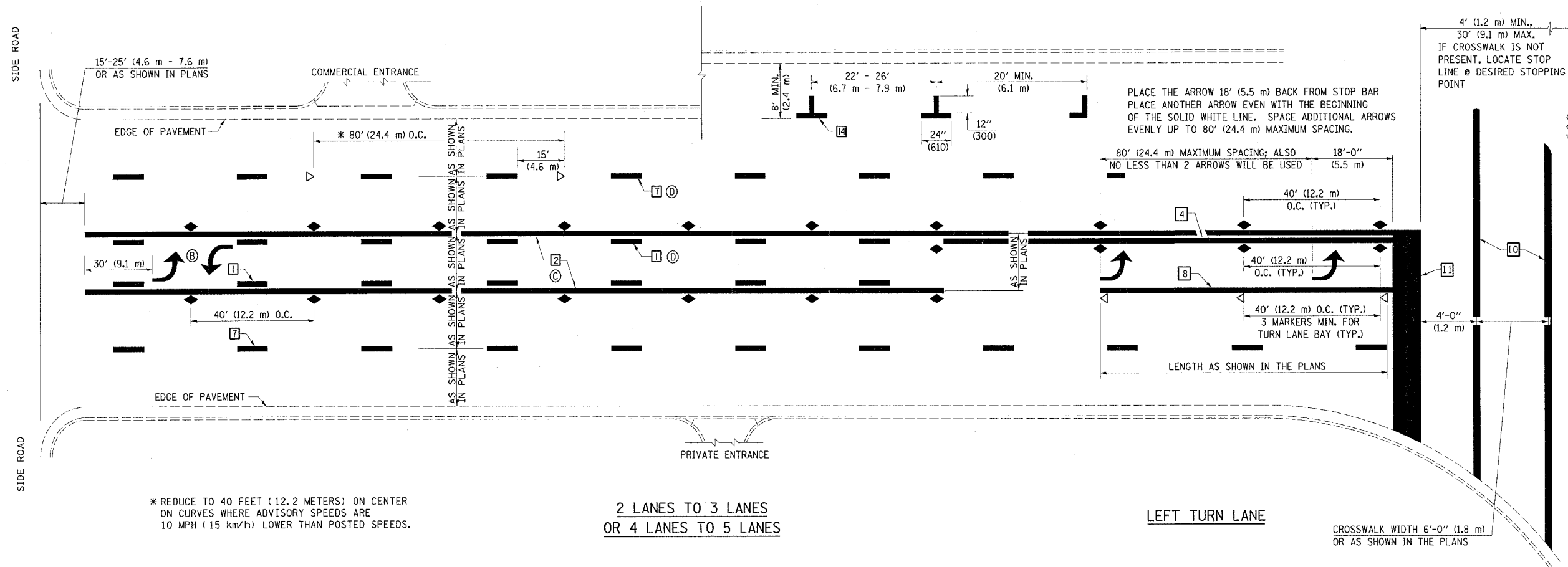
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CHECKED	D.L.P.	6/25/90	NAME	DATE
CADD NO.	C-2.10		PICHE	11-13-90
			D.L.P.	10-96

DESIGNED	NAME	DATE	REVISIONS	
CHECKED	AWH	8/17/91	NAME	DATE
CADD NO.	PEK	8/17/91	G.A.M.	11-95
	D-1.05		D.L.P.	10-96

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<h2>DISTRICT DETAILS</h2> <p>DATE MAY 03</p> <p>DRAWN BY _____ CHECKED BY _____</p>

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	342-4	VERMILION	285	130
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL APPLICATIONS OF PAVEMENT MARKINGS AND MARKERS



* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

2 LANES TO 3 LANES
OR 4 LANES TO 5 LANES

LEFT TURN LANE

CROSSWALK WIDTH 6'-0" (1.8 m)
OR AS SHOWN IN THE PLANS

TYPICAL PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 RESERVED
- 6 RESERVED
- 7 4" (100) SKIP-DASH (WHITE)

- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) CROSS WALK (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) LANE LINE EXTENSIONS (WHITE)
- 14 4" (100) PARKING WHITE

TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

		REVISIONS	
DESIGNED	NAME	DATE	REVISIONS
J.M.H.		5/85	
CHECKED	FMS	6/85	
CADD NO.	F-5.25		

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

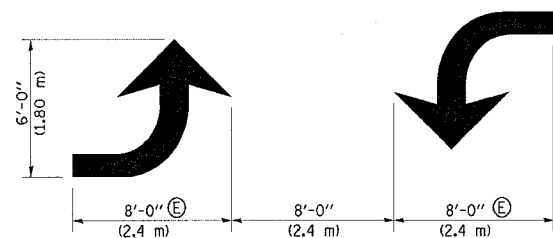
DISTRICT DETAILS

DATE MAY 03

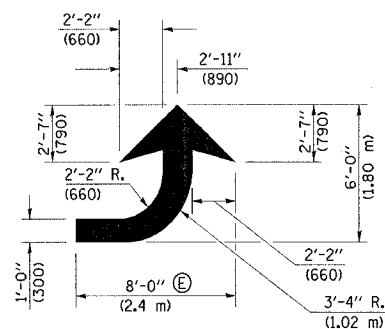
DRAWN BY
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

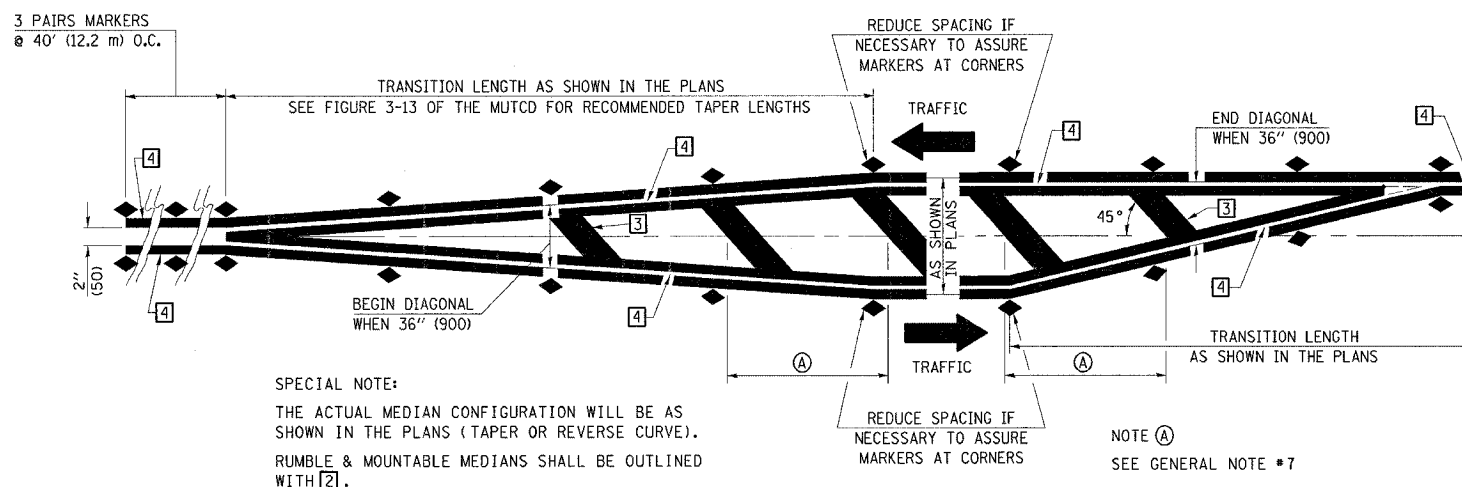
TYPICAL APPLICATIONS OF PAVEMENT MARKINGS AND MARKERS



TYPICAL DOUBLE TURN ARROWS (WHITE)



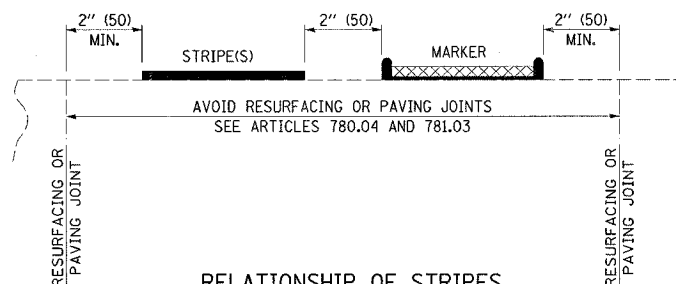
LEFT ARROW
REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m²)
(WHITE)



SPECIAL NOTE:
THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE).
RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

NOTE (A)
SEE GENERAL NOTE # 7

TYPICAL MEDIAN TRANSITIONS



RELATIONSHIP OF STRIPES, MARKERS AND JOINTS

SPECIAL NOTES:

- (B) TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.
- (C) THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
- (D) THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER. SEE EXAMPLE ON SHEET 2 OF 3.
- (E) TURN ARROW SIZE DEPENDS ON THE LOCATION.
RURAL LOCATION - LARGE ARROW SIZE
URBAN LOCATION - SMALL ARROW SIZE

GENERAL NOTES

1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
2. SCALE: NONE
3. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
4. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
5. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
6. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
7. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING,
<30 MPH USE 15' (<50 km/h USE 4.5 m)
30-45 MPH USE 20' (50-75 km/h USE 6.0 m)
>45 MPH USE 30' (>75 km/h USE 9.0 m)

DESIGNED	NAME	DATE	REVISIONS
J.M.H.		5/85	
CHECKED	FMS	6/85	6/88
CADD NO.	F-5.25		K.A.G.
			08/04

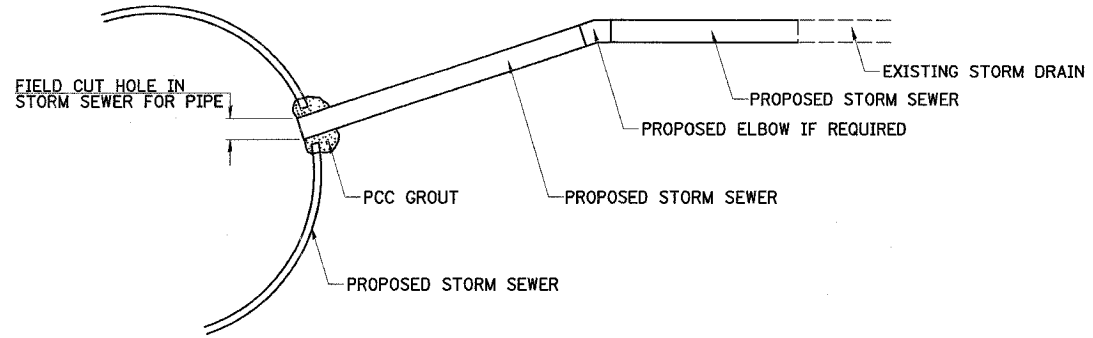
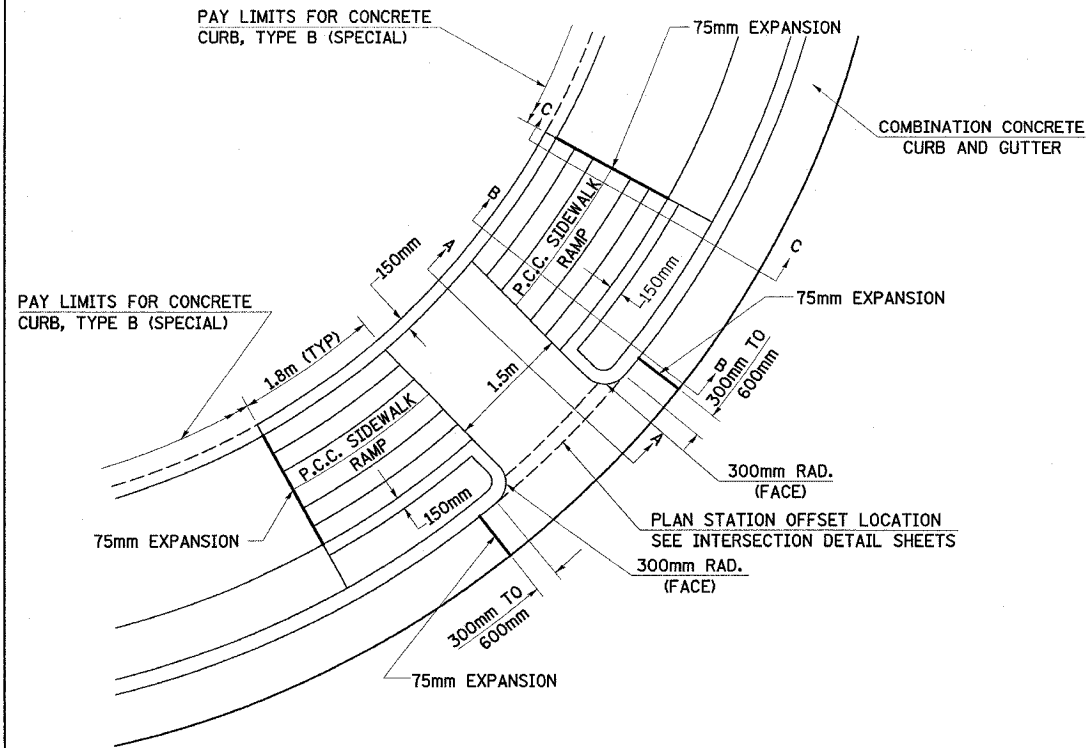
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		DISTRICT DETAILS

DATE MAY 03

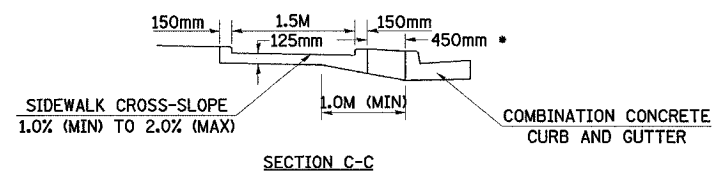
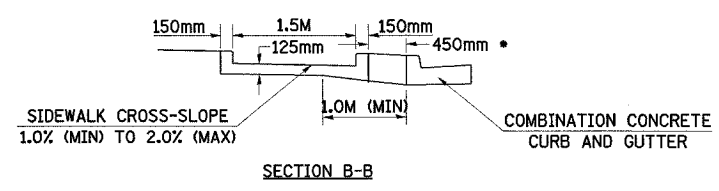
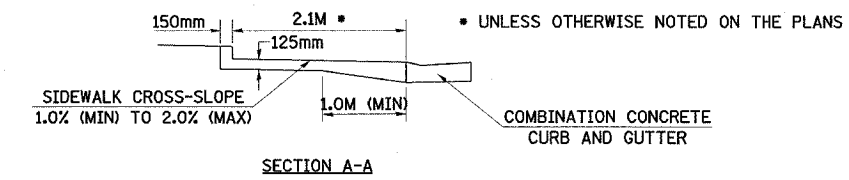
DRAWN BY
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

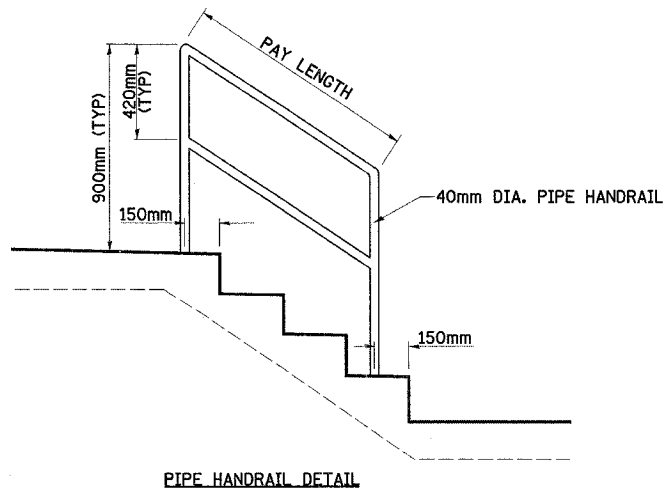


NOTE: ALL FITTINGS AND GROUT REQUIRED FOR CONNECTING EXISTING STORM DRAINS TO PROPOSED STORM SEWER SHALL BE CONSIDERED INCLUDED IN THE COST OF CONSTRUCTING THE STORM SEWER.

DETAIL OF CONNECTING STORM DRAINS TO PROPOSED STORM SEWER



TYPICAL HANDICAP ACCESSIBLE SIDEWALK RAMP

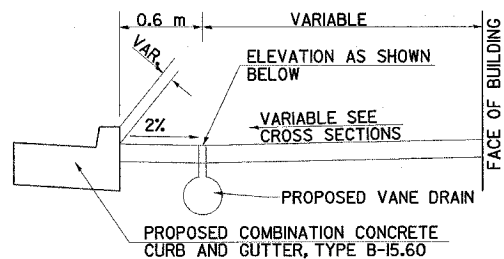


PIPE HANDRAIL DETAIL

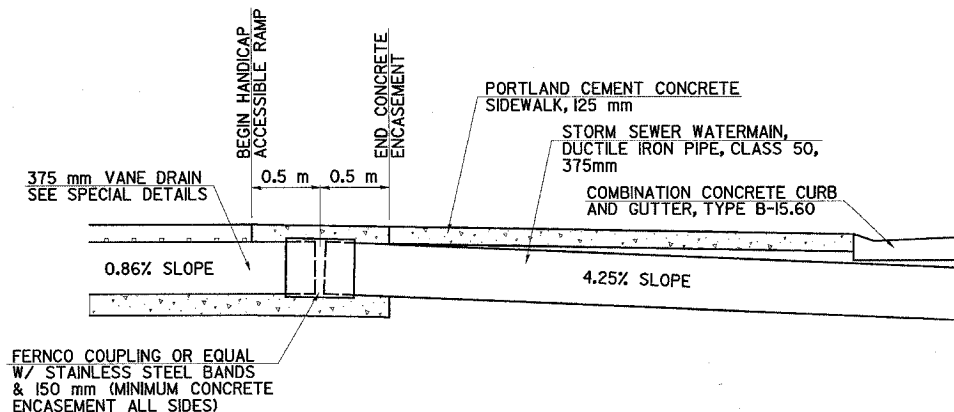
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MISCELLANEOUS SPECIAL DETAILS
 DRAWN BY TD
 CHECKED BY AWM
 DATE MAY 03

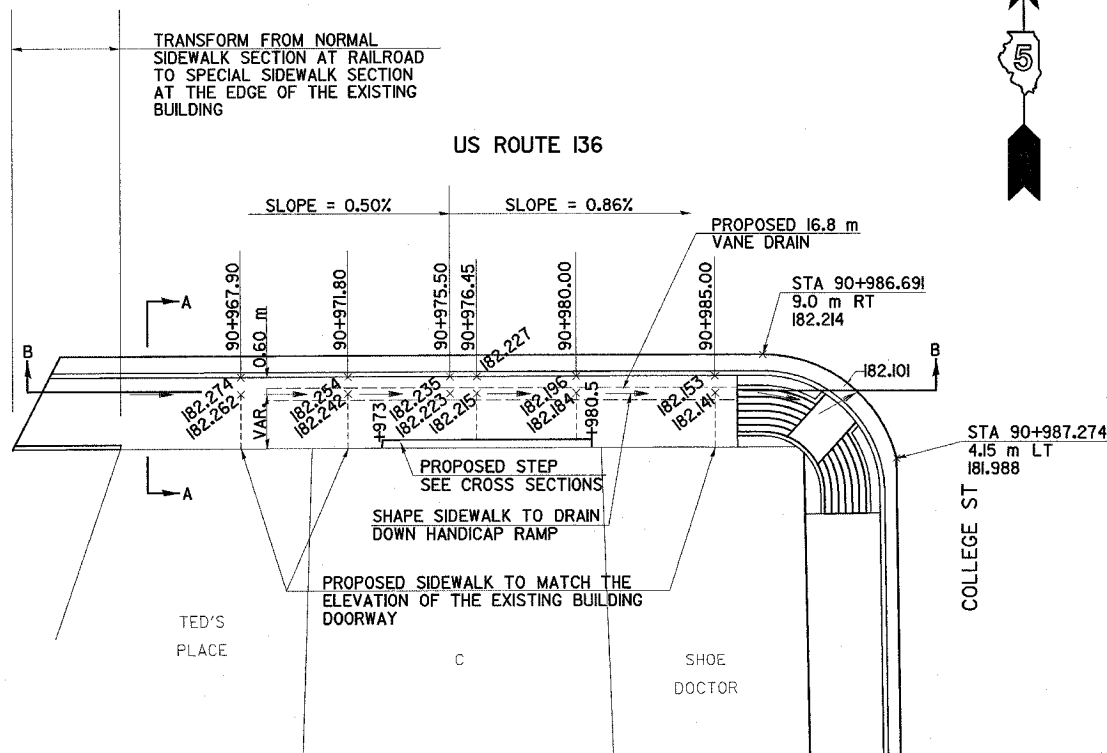
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	133
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



SECTION A-A



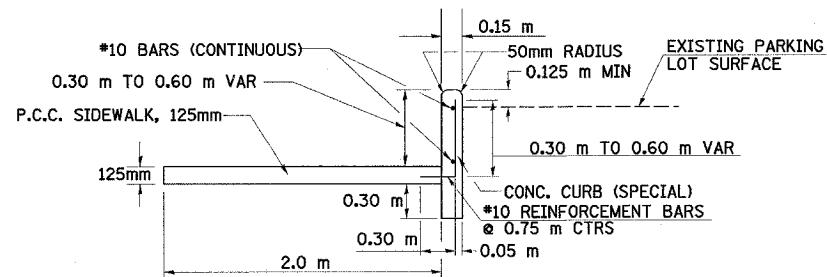
SECTION B-B



PLAN VIEW
SPECIAL SIDEWALK DETAIL
STA 90+959.7 TO STA 90+987.0

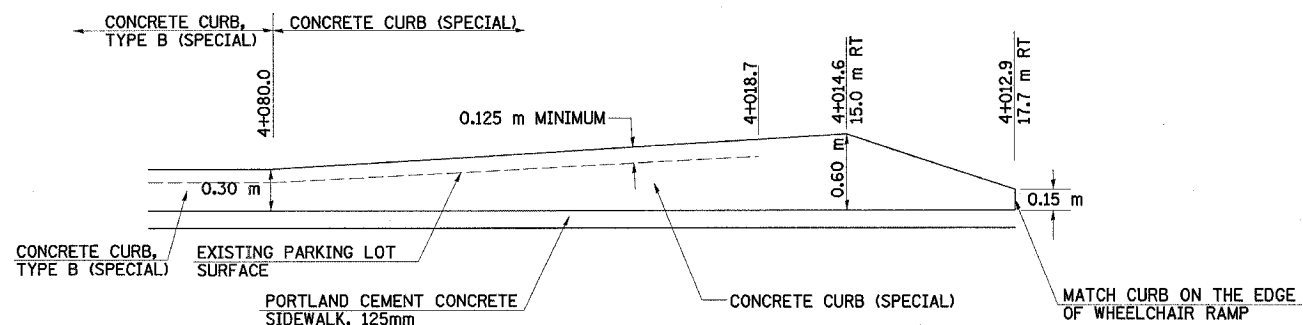


CONCRETE CURB (SPECIAL) DETAIL

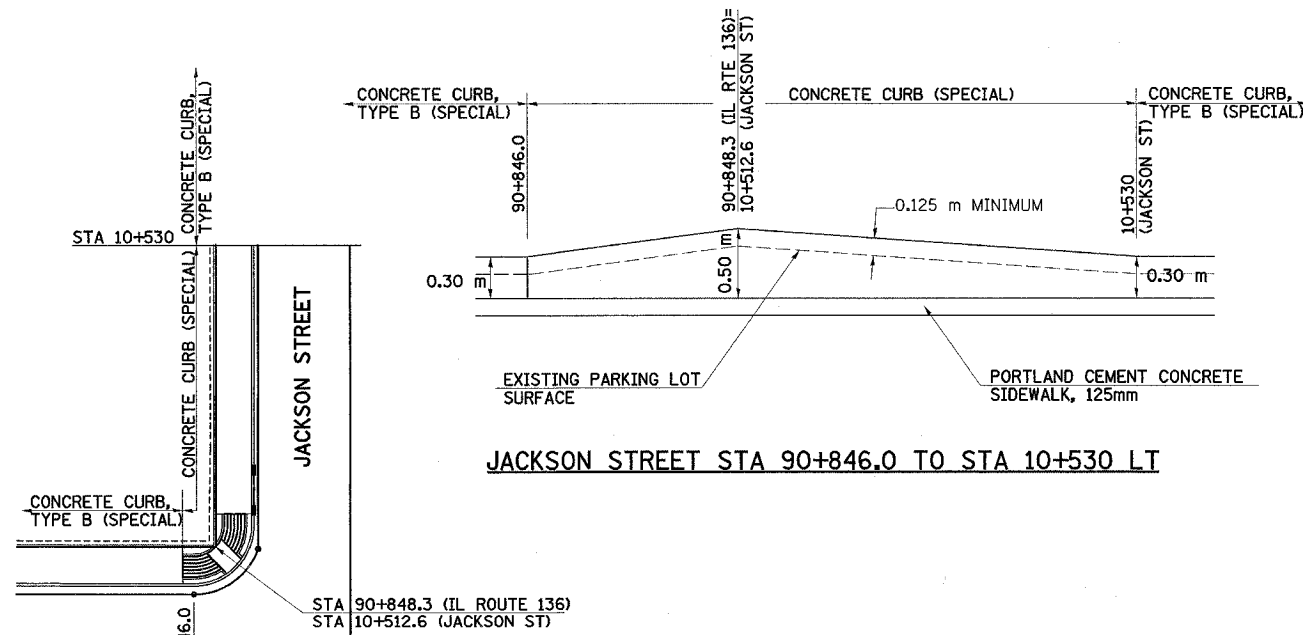


NOTES
ALL REINFORCEMENT BARS IN THE CONCRETE CURB WILL BE INCLUDED IN THE COST PER METER FOR CONCRETE CURB (SPECIAL).
BEND #10 TIE BARS TO FIT FIELD CONDITIONS.
ALL JOINTS IN THE SIDEWALK SHALL BE EXTENDED OPPOSITE THE CONC. CURB (SPECIAL)

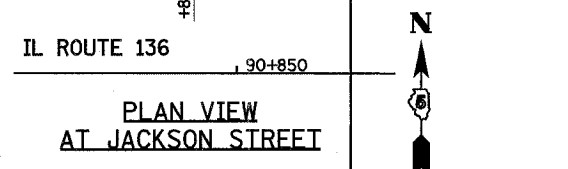
SECTION THRU SIDEWALK & CURB



WALNUT STREET STA 4+012.7 TO STA 4+080.0 RT



JACKSON STREET STA 90+846.0 TO STA 10+530 LT



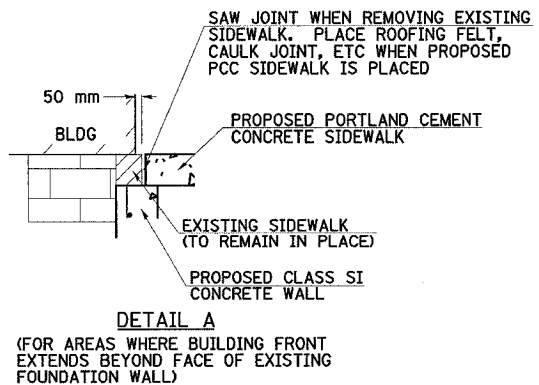
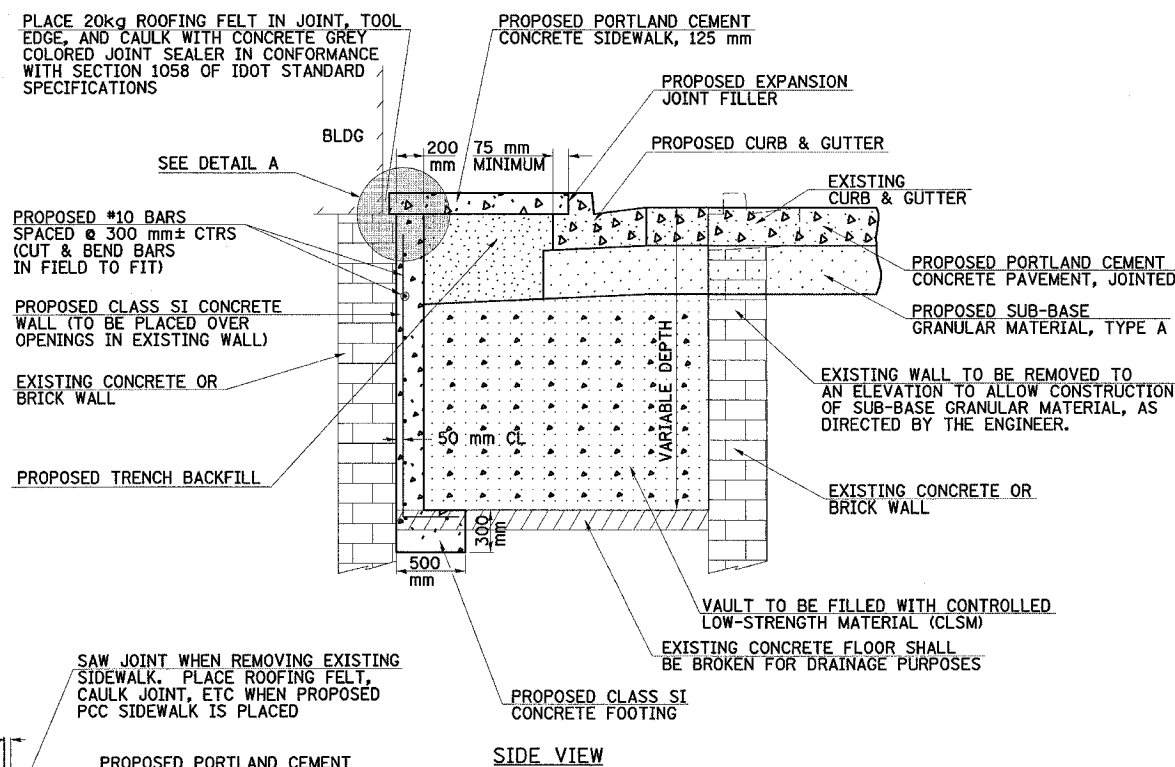
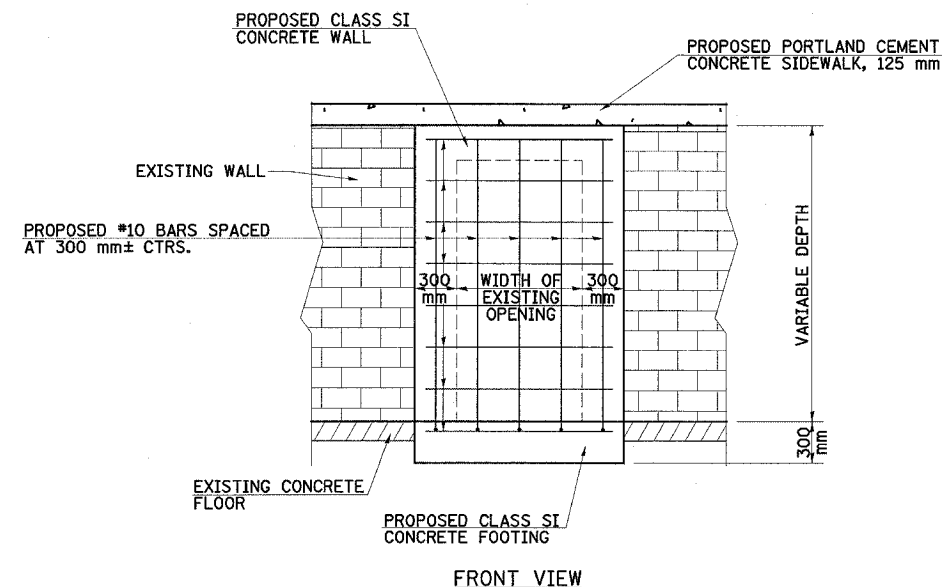
PLAN VIEW
AT JACKSON STREET



REVISIONS	
NAME	DATE

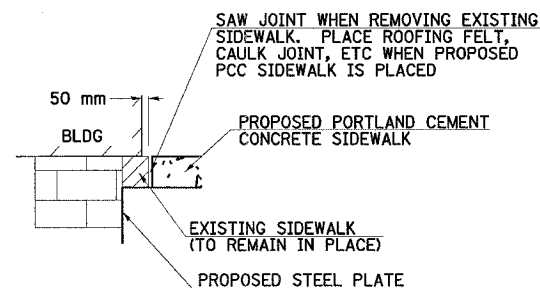
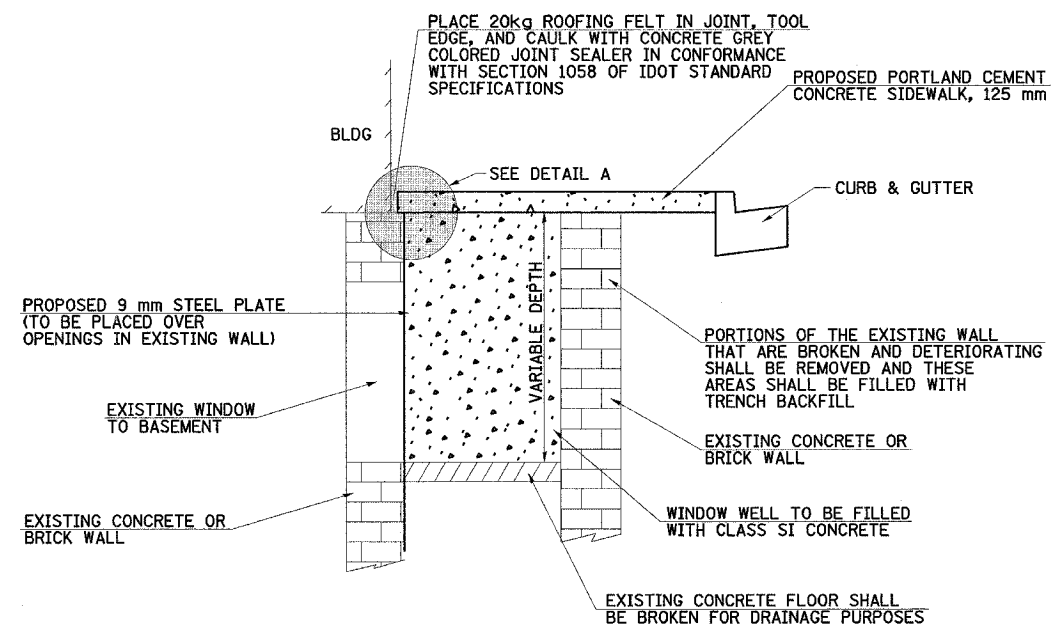
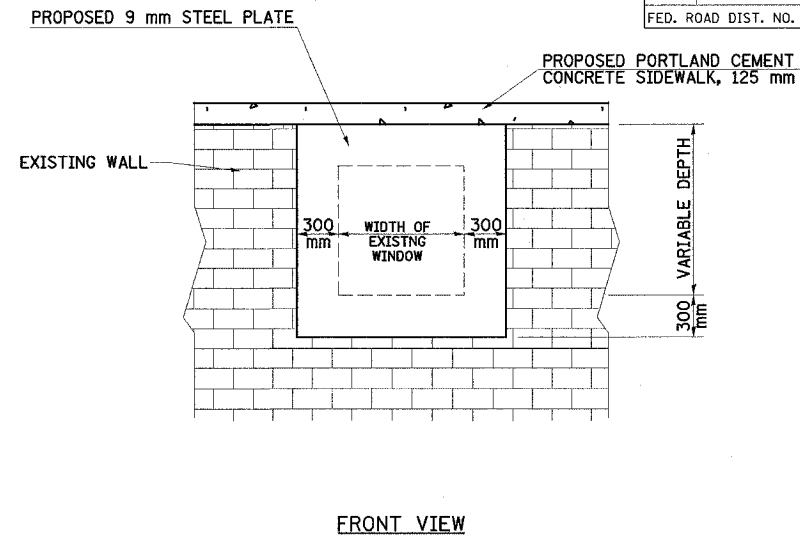
ILLINOIS DEPARTMENT OF TRANSPORTATION
**MISCELLANEOUS
SPECIAL DETAILS**
DRAWN BY TD
CHECKED BY AWM
DATE MAY 03

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	342-4	VERMILION	285	134
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



NOT TO SCALE
DETAIL OF FILLING EXISTING VAULTS AND BASEMENTS WITHIN RIGHT-OF-WAY

NOTES:
CLSM SHALL BE POURED IN SUCH A MANNER THAT NO ADDITIONAL PRESSURE WILL BE EXERTED ON THE EXISTING WALL.
METAL FORMS SHALL BE BRACED SUFFICIENTLY TO PREVENT DISTORTION AND METAL SNAP TIES SHALL REMAIN UNDISTURBED AFTER THE FORMS ARE REMOVED.



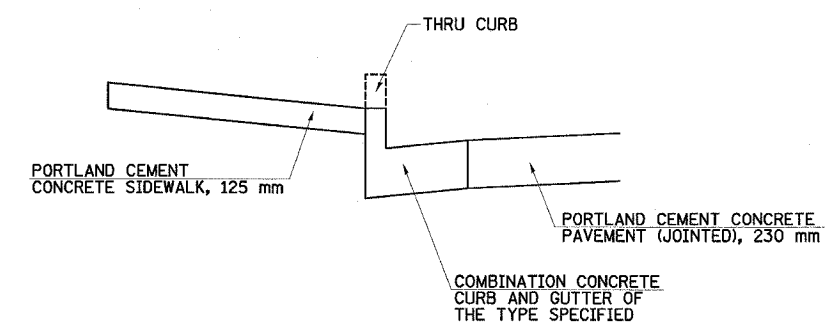
NOT TO SCALE
DETAIL OF FILLING EXISTING WINDOW WELLS

NOTES:
CONCRETE SHALL BE POURED IN SUCH A MANNER THAT NO ADDITIONAL PRESSURE WILL BE EXERTED ON THE EXISTING WALL.

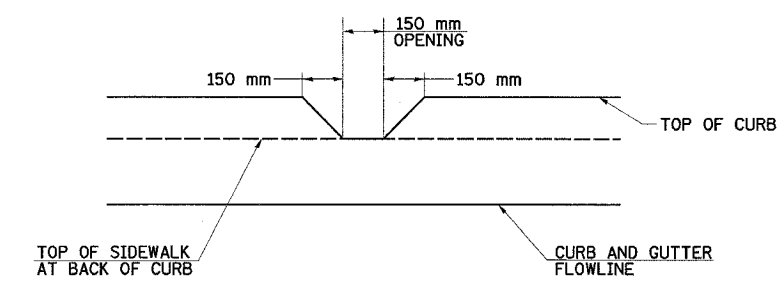
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MISCELLANEOUS SPECIAL DETAILS
DRAWN BY TD
CHECKED BY AWM
DATE MAY 03

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	135
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

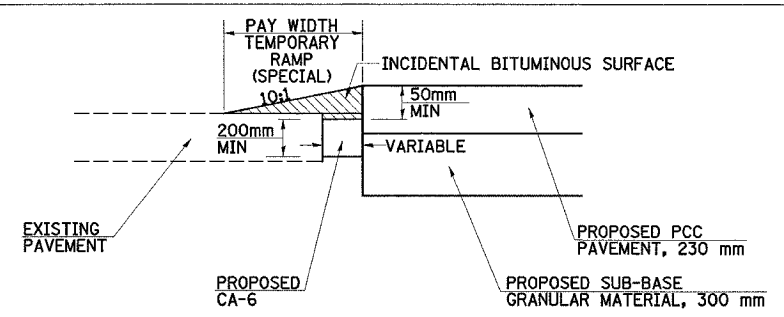


SECTION THRU SIDEWALK

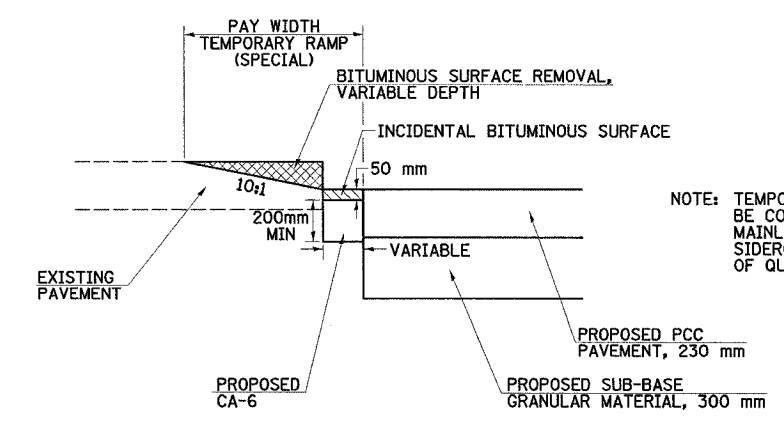


SECTION ALONG CURB

DETAIL OF CURB CUT WHERE SIDEWALK IS LOWER THAN CURB AND GUTTER



PROPOSED ELEVATION GREATER THAN EXISTING

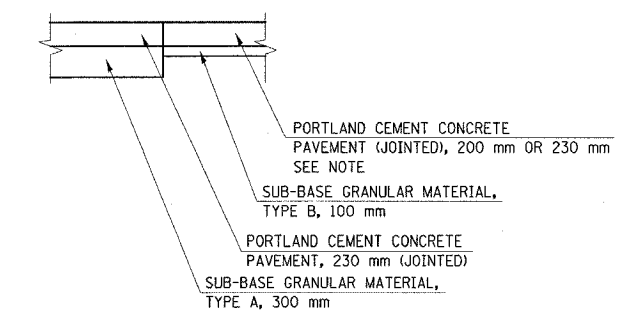
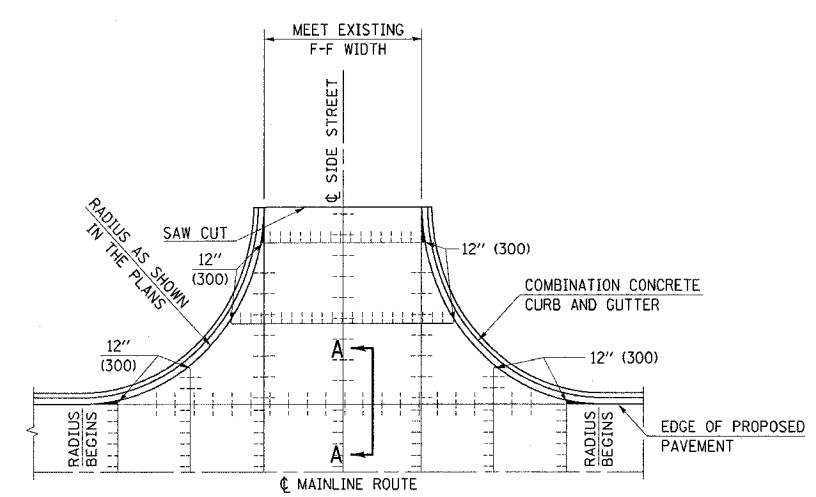


EXISTING ELEVATION GREATER THAN PROPOSED

DETAIL OF TEMPORARY RAMP (SPECIAL)

NOTE: TEMPORARY RAMP (SPECIAL) SHALL BE CONSTRUCTED BETWEEN THE MAINLINE RETURN POINTS AT THE SIDEROADS LISTED IN THE SCHEDULE OF QUANTITIES.

DETAIL OF INTERSECTING SIDE STREETS
(ADJACENT TO JOINTED P.C.C. PAVEMENT)



SECTION A-A

GENERAL NOTES

1. ALL INTERSECTING SIDE STREETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THIS DETAIL EXCEPT THOSE NOTED IN THE PLANS.
2. SAWED LONGITUDINAL JOINTS WITH TIE BARS WILL BE ALLOWED ALONG THE CENTERLINE ONLY WHEN THE STREET RETURN IS POURED FULL WIDTH. OTHER LONGITUDINAL JOINTS SHALL BE ACCORDING TO STANDARD 420001.
3. TRANSITION PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) OF THE THICKNESS SPECIFIED IN THE PLANS TO MEET THE EXISTING PAVEMENT.
4. SHADED AREAS SHALL BE POURED MONOLITHIC WITH ADJACENT COMBINATION CONCRETE CURB AND GUTTER. THIS WORK WILL BE MEASURED AND INCLUDED IN THE CONTRACT UNIT PRICE PER SQUARE YARD (m²) FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) OF THE THICKNESS SPECIFIED IN THE PLANS.
5. SAWED CONTRACTION JOINTS, AS SHOWN IN STANDARD 420001, SHALL BE REQUIRED AT 12' (3.6 m) TO 18' (5.5 m) SPACING.
6. JOINT SPACING, MONOLITHIC POURS AND OTHER FEATURES MAY BE MODIFIED TO MAINTAIN ALIGNMENT OF JOINTS BETWEEN ADJACENT PANELS. SEE PAVEMENT JOINT PLANS.
7. PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED); 230 mm, SHALL BE USED ON LAUHOFF STREET AND THE NORTH LEG OF BUCHANAN STREET.
8. SEE TYPICAL SECTIONS FOR SECTION VIEW OF SIDEROAD.

LEGEND

- +++++ LONGITUDINAL JOINT WITH TIE BARS (STANDARD 420001)
- ▨ INCIDENTAL BITUMINOUS SURFACING OVER AGGREGATE BASE COURSE (SEE SECTION A-A) (SEE NOTE *5)
- ||||| SAWED CONTRACTION JOINT WITH TIE BARS (STANDARD 420001)

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MISCELLANEOUS SPECIAL DETAILS
DRAWN BY TD
CHECKED BY AWM
DATE MAY 03

18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 10 11 12 13

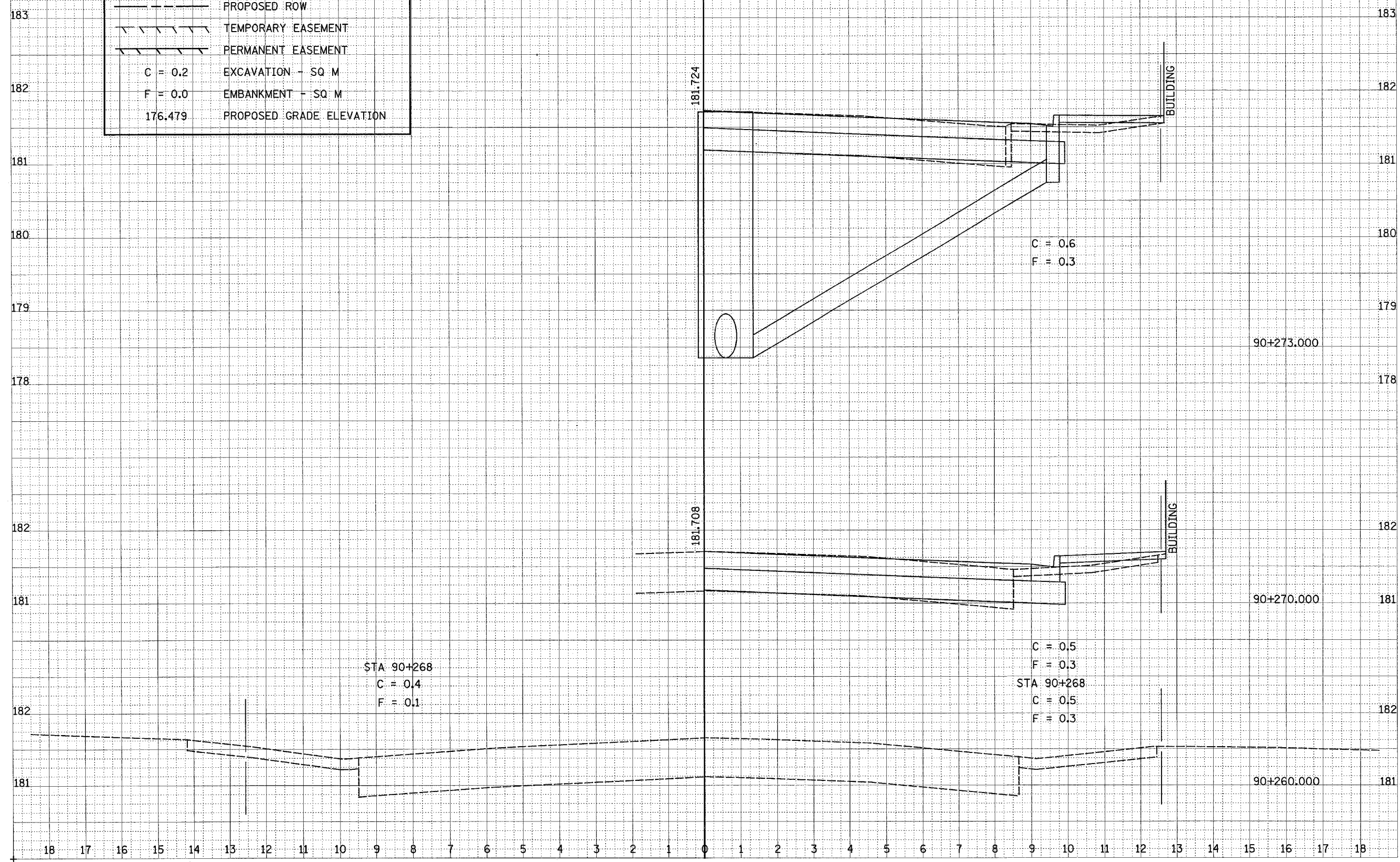
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	136
STA. 90+260.000		TO STA. 90+273.000		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
14	15	16	17	18
CONTRACT NO. 90632				

LEGEND

— EXISTING ROW
 - - - PROPOSED ROW
 / / / / / TEMPORARY EASEMENT
 \ \ \ \ \ PERMANENT EASEMENT

C = 0.2 EXCAVATION - SQ M
 F = 0.0 EMBANKMENT - SQ M
 176.479 PROPOSED GRADE ELEVATION

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



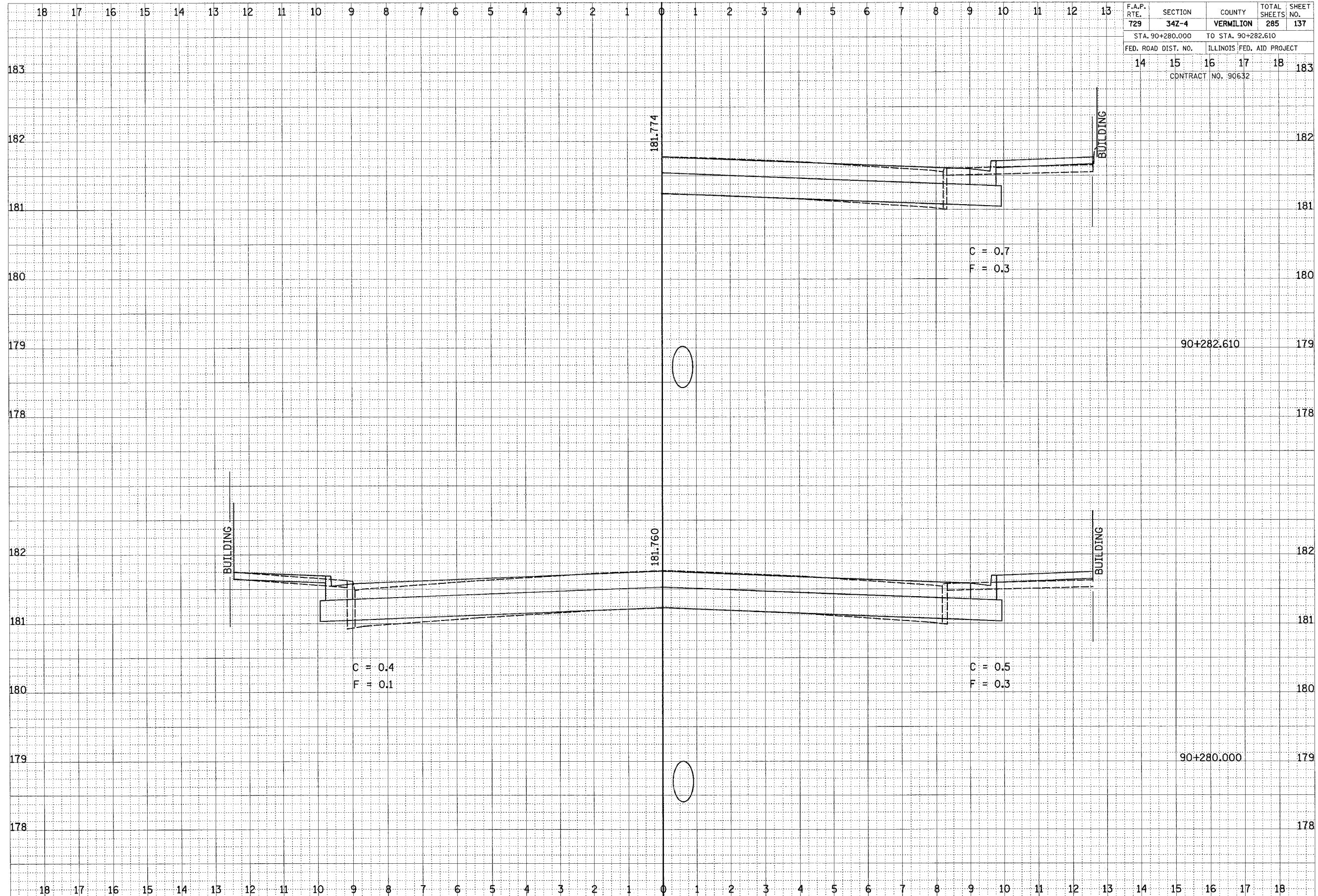
DATE	BY
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

CROSS SECTIONS, FAP 729 (US 136)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	137
STA. 90+280.000		TO STA. 90+282.610		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
14	15	16	17	18
CONTRACT NO. 90632				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
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NOTE BOOK NO.	PLOTTED	
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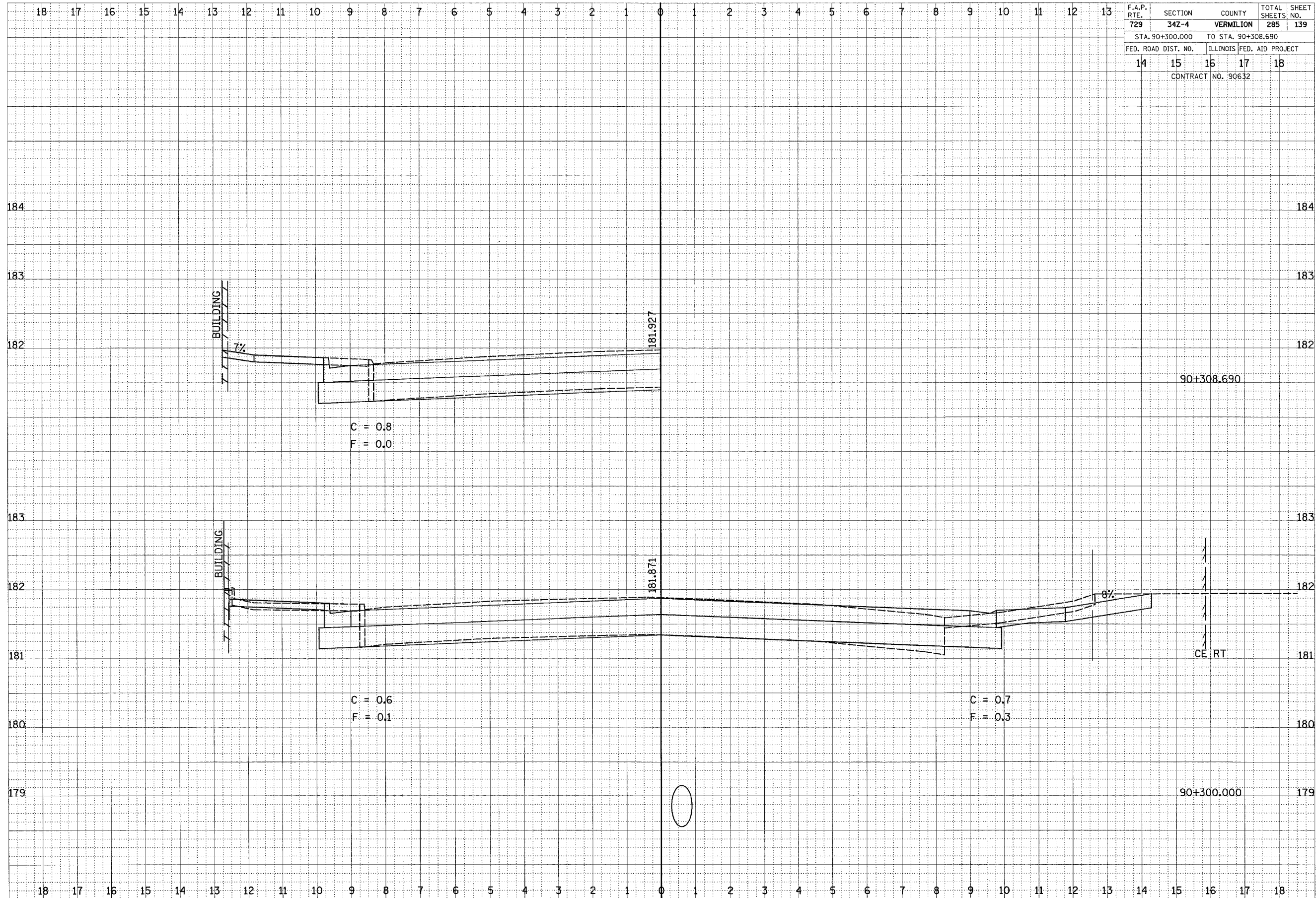


CROSS SECTIONS, FAP 729 (US 136)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	139
STA. 90+300.000		TO STA. 90+308.690		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
14	15	16	17	18
CONTRACT NO. 90632				

FINAL SURVEY	BY	DATE
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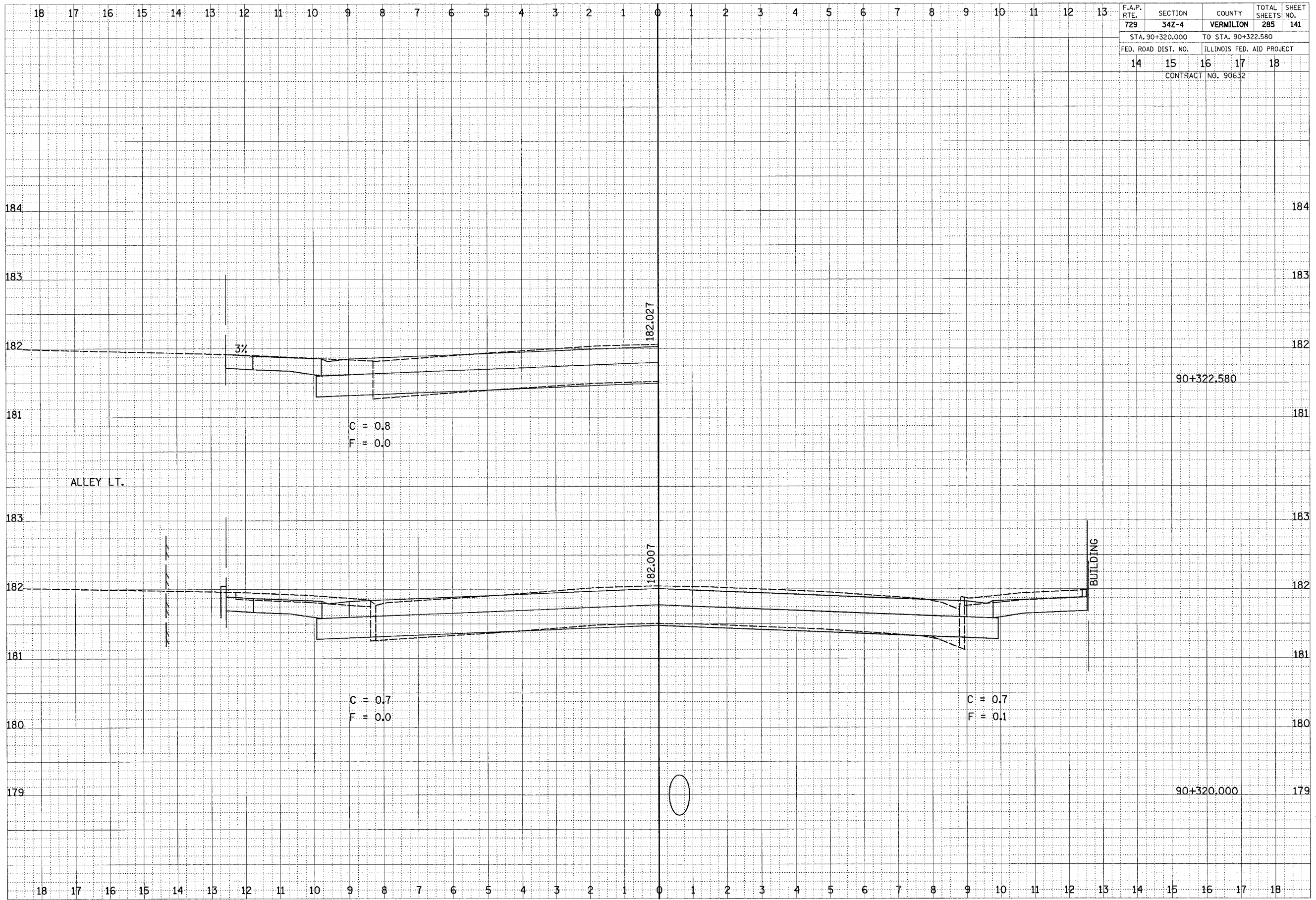


CROSS SECTIONS, FAP 729 (US 136)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	141
STA. 90+320.000		TO STA. 90+322.580		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
14	15	16	17	18
CONTRACT NO. 90632				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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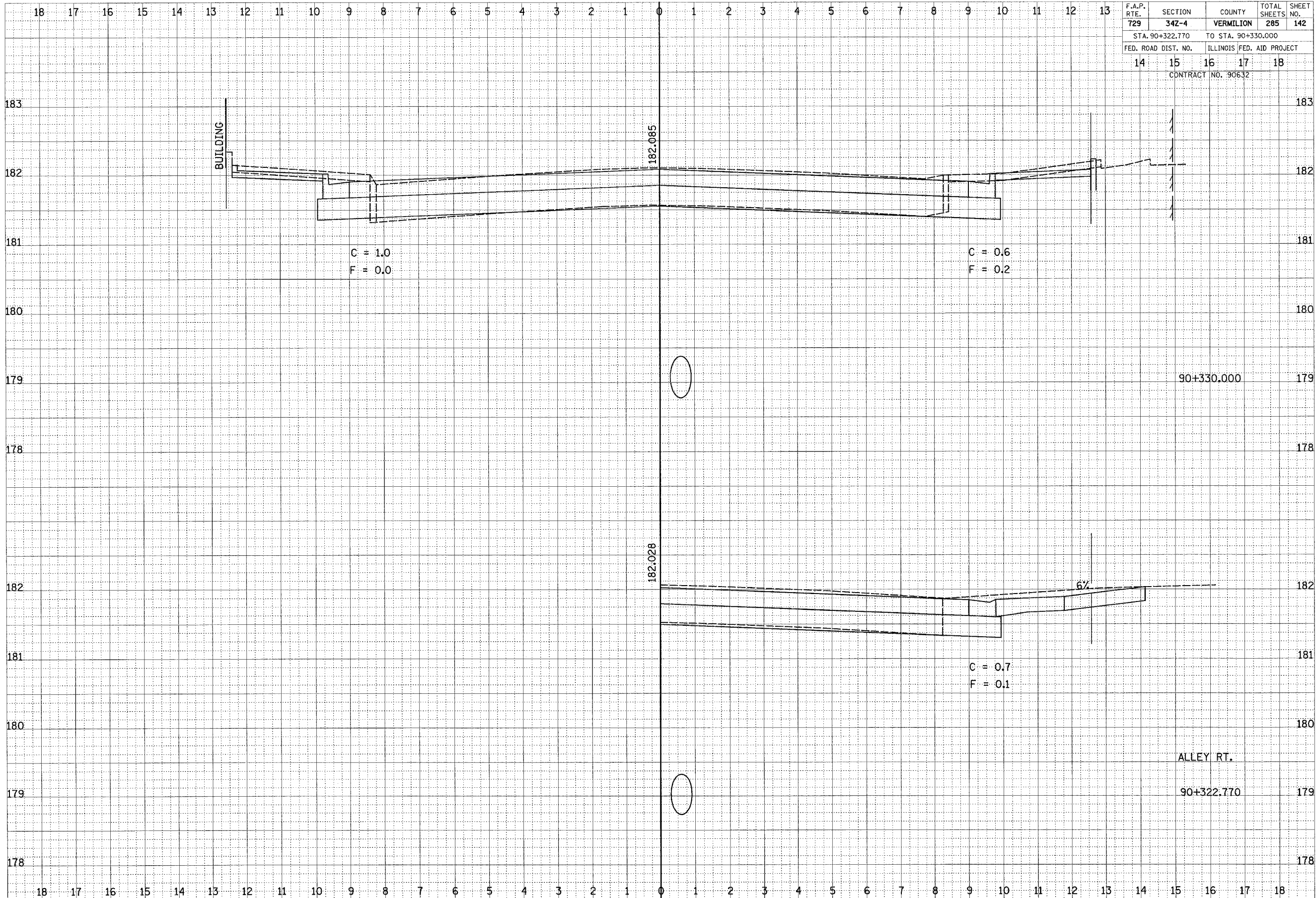
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NOTE BOOK	PLOTTED	
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	142
STA. 90+322.770		TO STA. 90+330.000		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
14		15		16 17 18
CONTRACT NO. 90632				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK NO.	FLATTED	BY
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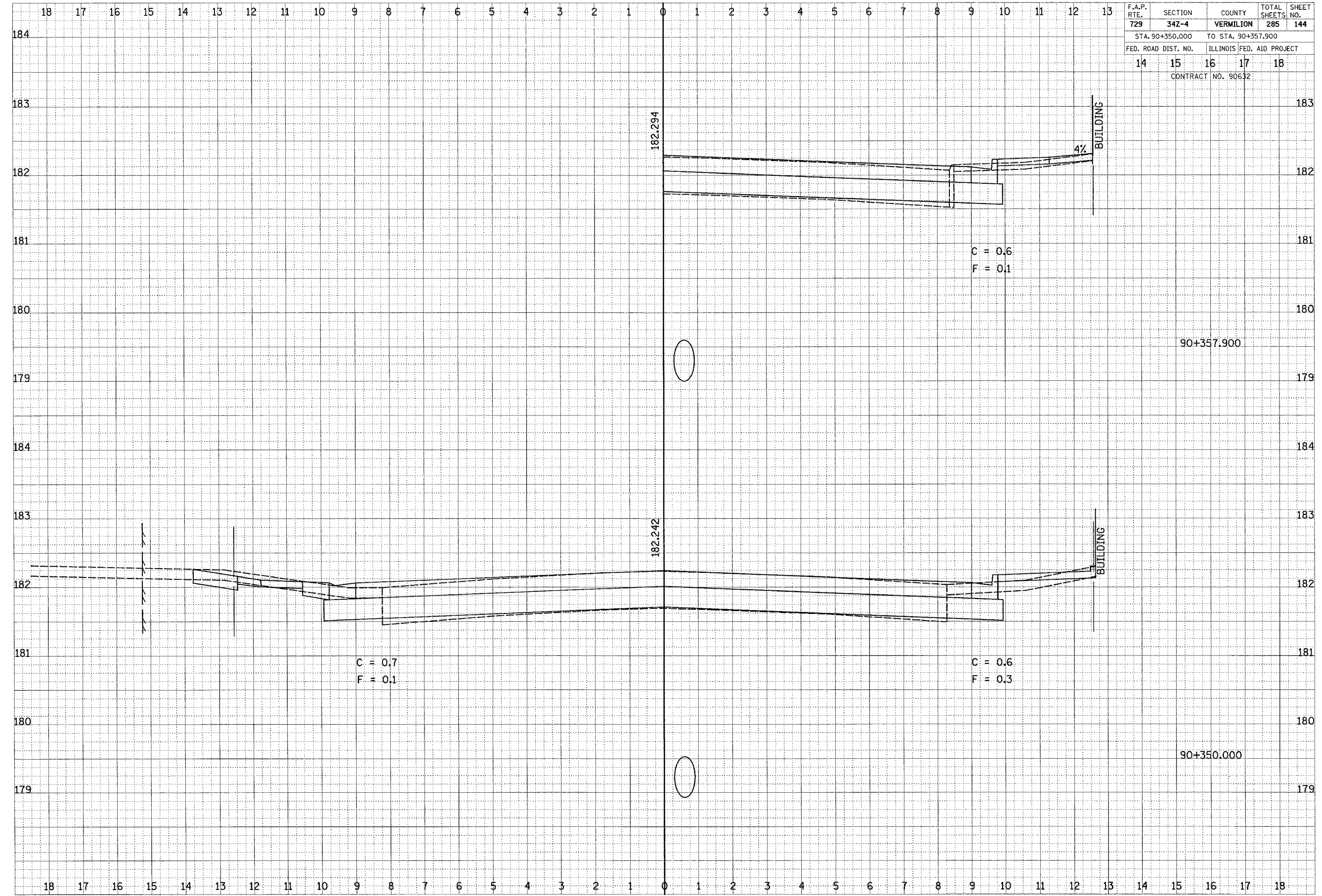


CROSS SECTIONS, FAP 729 (US 136)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	342-4	VERMILION	285	144
STA. 90+350.000		TO STA. 90+357.900		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
14	15	16	17	18
CONTRACT NO. 90632				

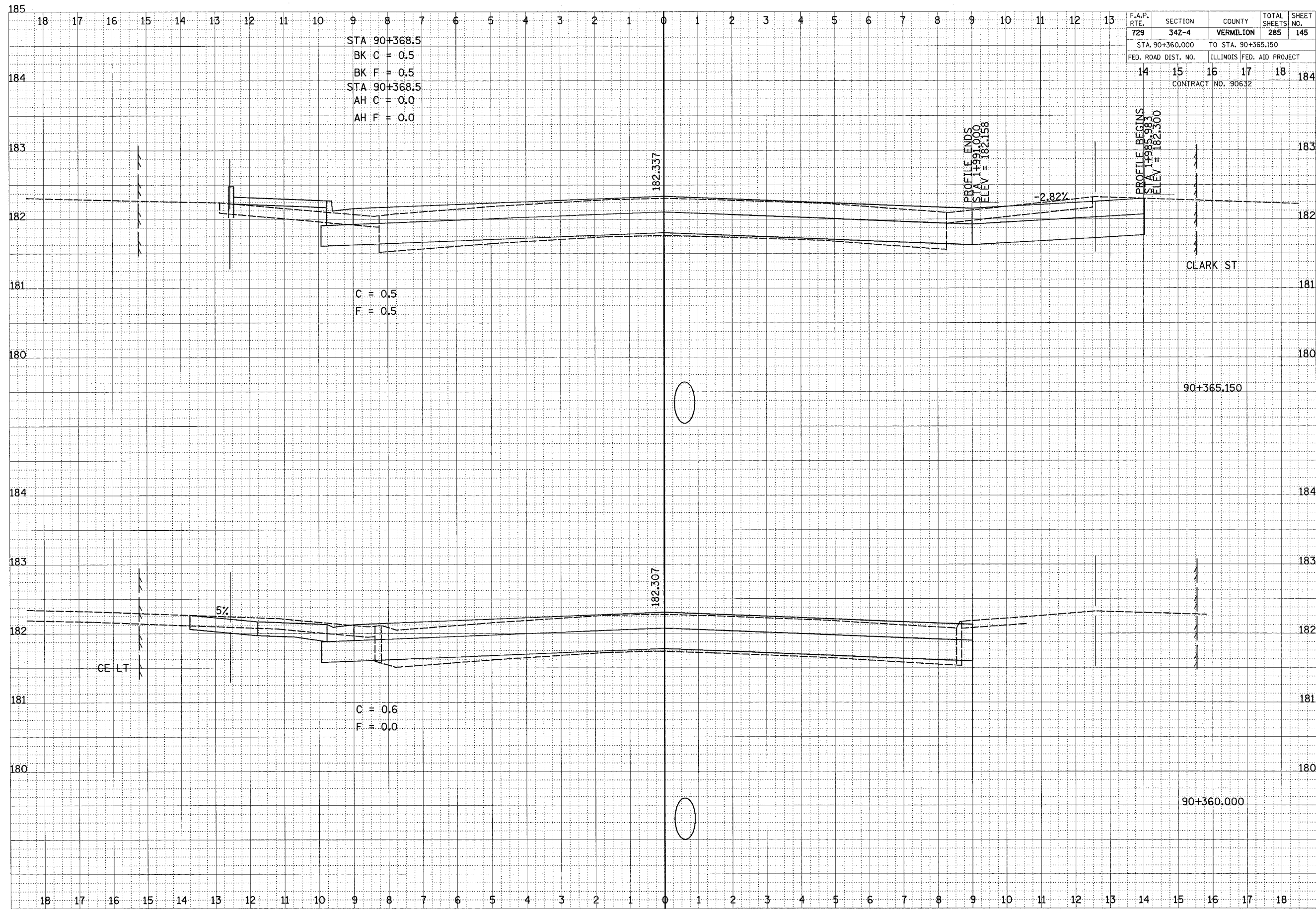
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CROSS SECTIONS, FAP 729 (US 136)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	145
STA. 90+360.000		TO STA. 90+365.150		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
14	15	16	17	18
CONTRACT NO. 90632				



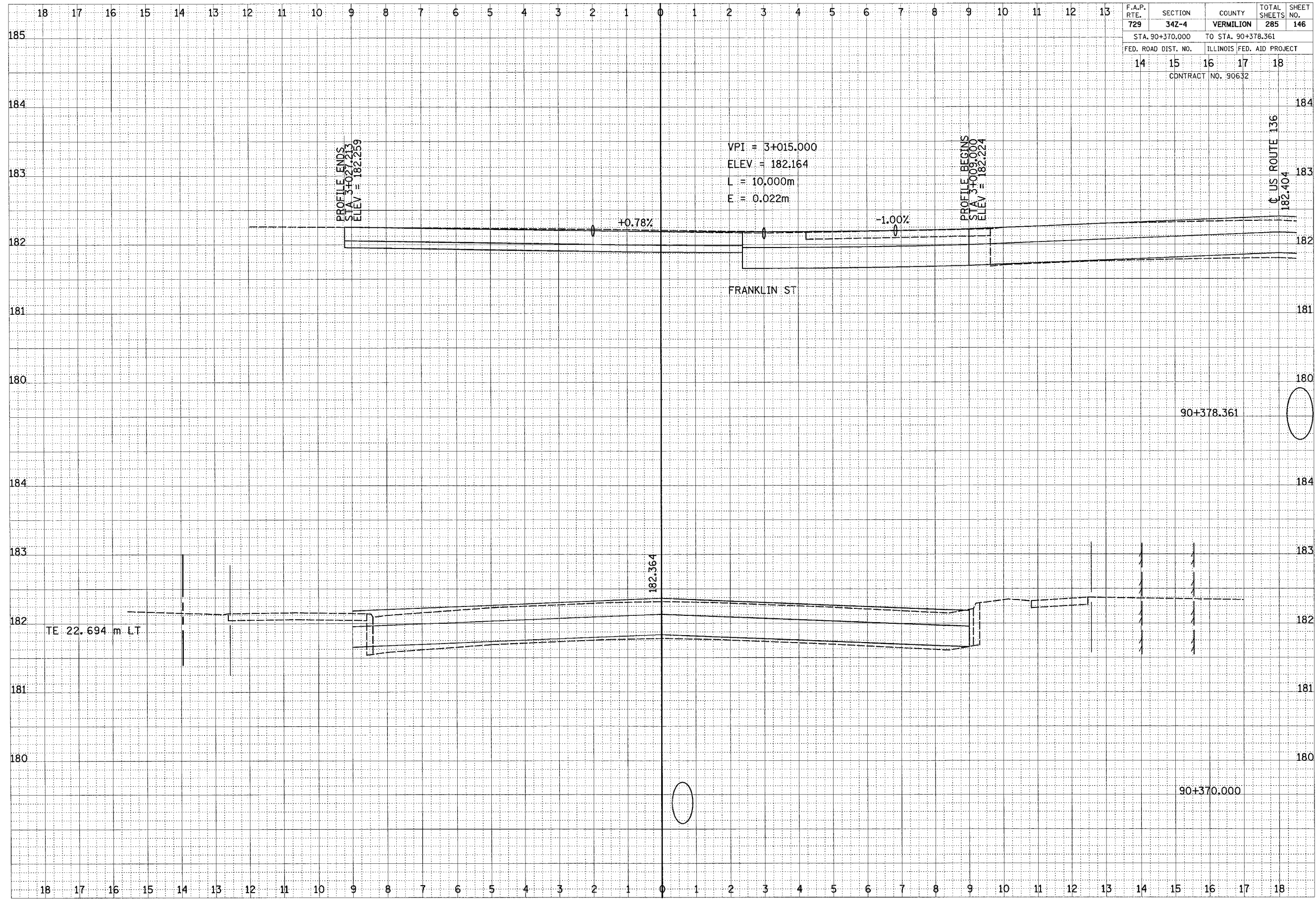
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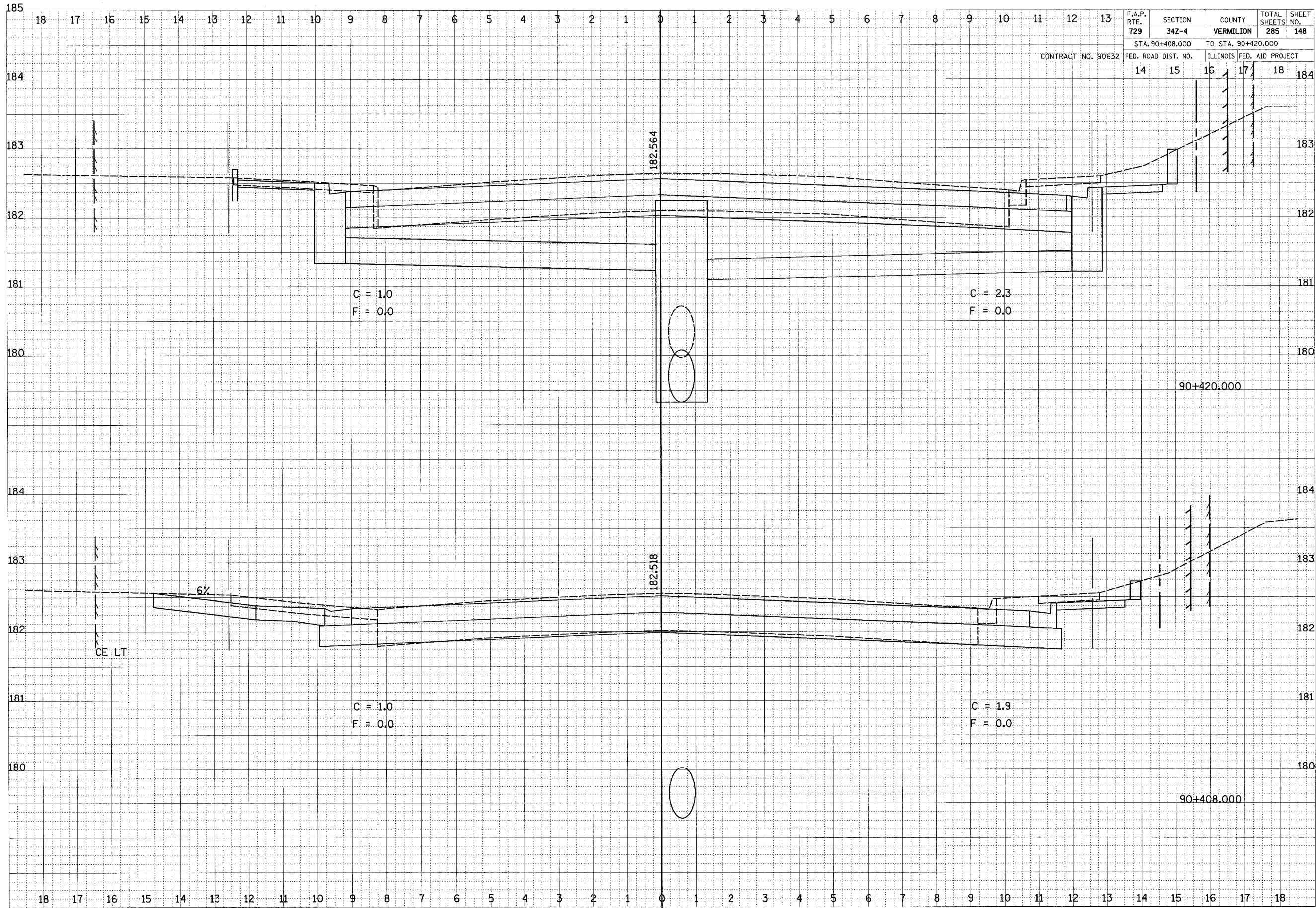
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	146
STA. 90+370.000		TO STA. 90+378.361		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
14	15 16 17 18			
CONTRACT NO. 90632				

FINAL SURVEY	SURVEYED	DATE
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ORIGINAL SURVEY	SURVEYED	DATE
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	AREAS CHECKED	



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	148
STA. 90+408.000 TO STA. 90+420.000				
CONTRACT NO. 90632		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.	14	15	16	17



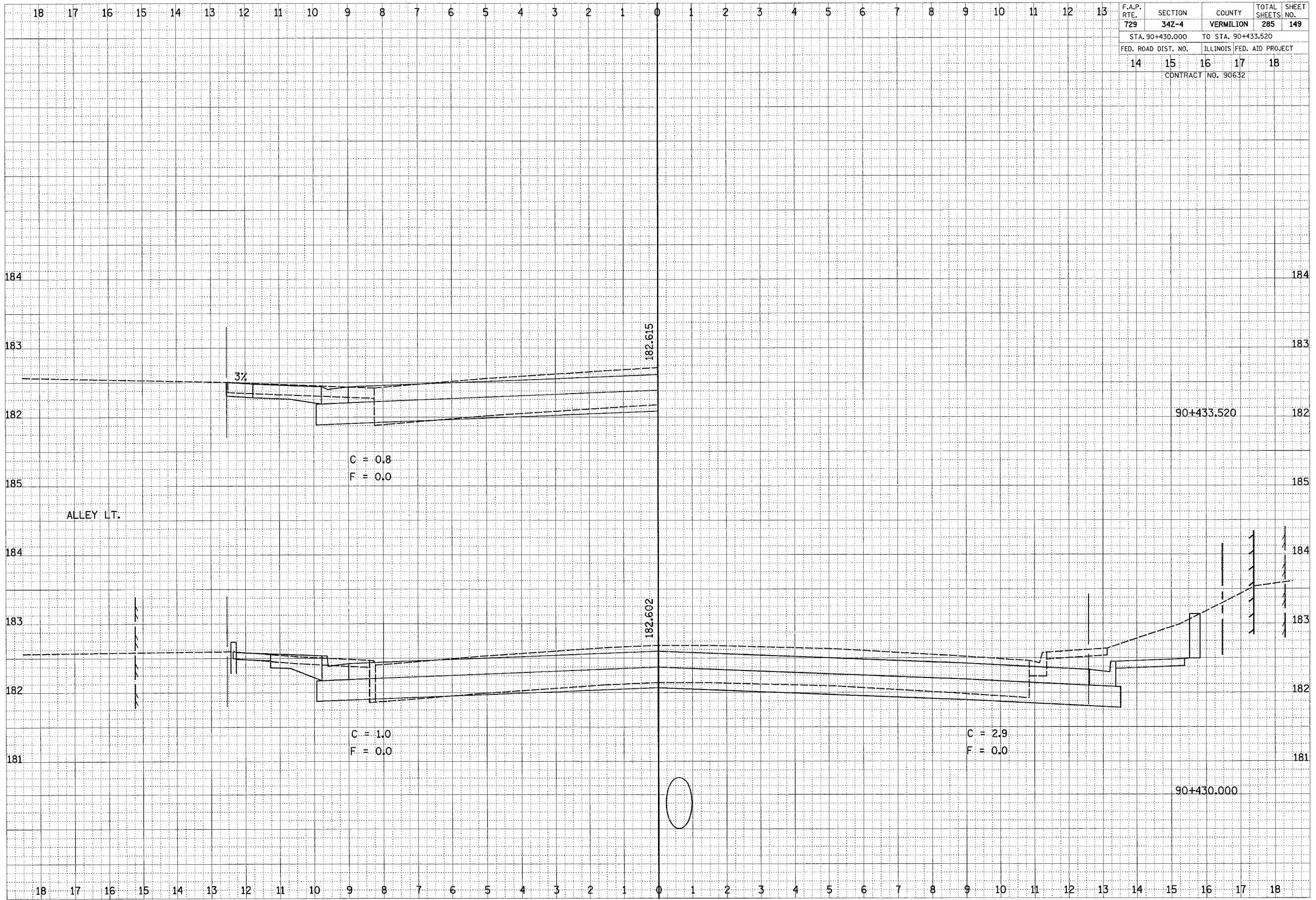
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ORIGINAL SURVEY	DATE
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	149
STA. 90+430.000		TO STA. 90+433.520		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
14	15	16	17	18
CONTRACT NO. 90632				

DATE	BY
FINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
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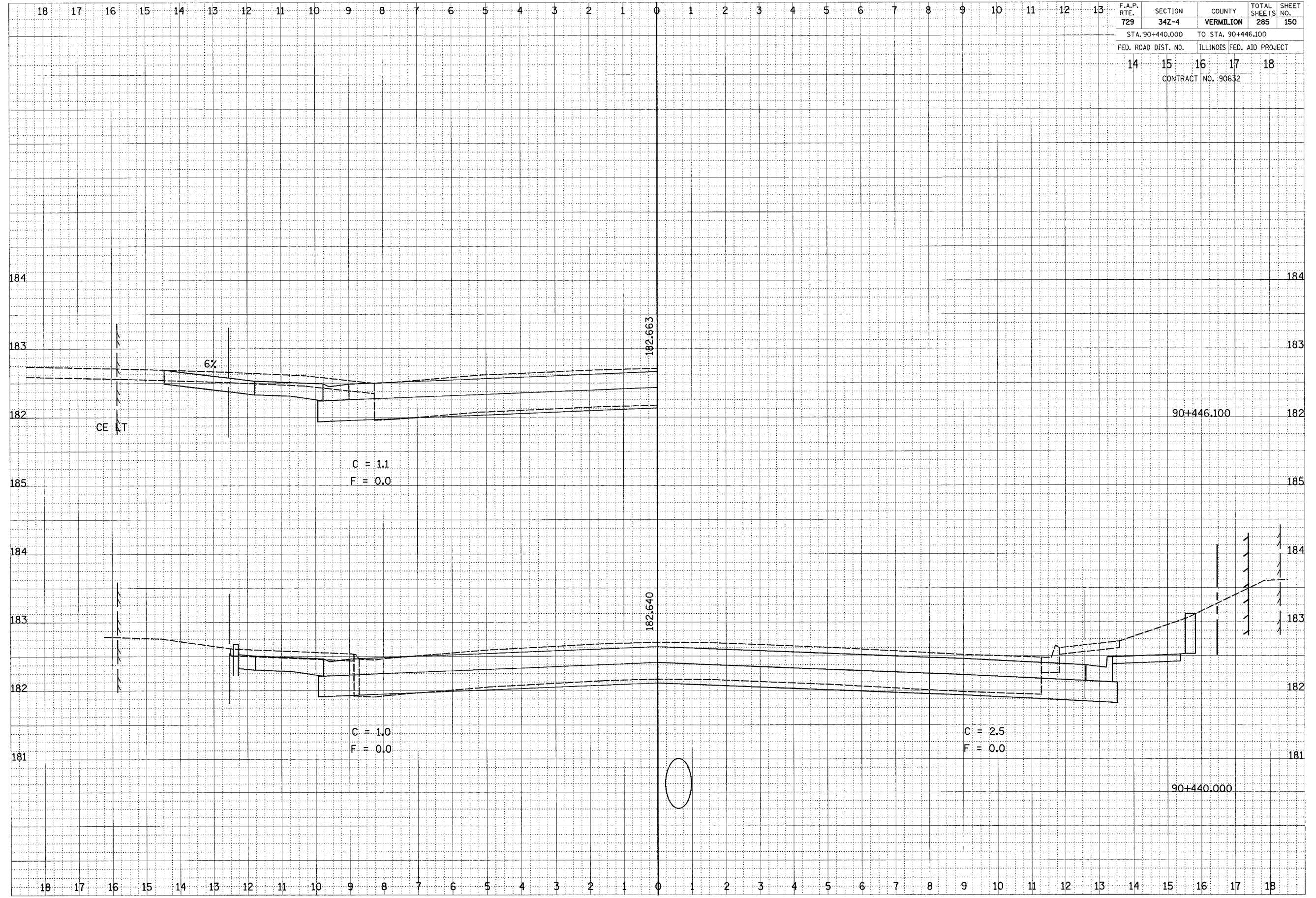
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
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F.A.P. RTE. 729	SECTION 34Z-4	COUNTY VERMILION	TOTAL SHEETS 285	SHEET NO. 150
STA. 90+440.000		TO STA. 90+446.100		
FED. ROAD DIST. NO. 14		ILLINOIS FED. AID PROJECT 15 16 17 18		
CONTRACT NO. 90632				

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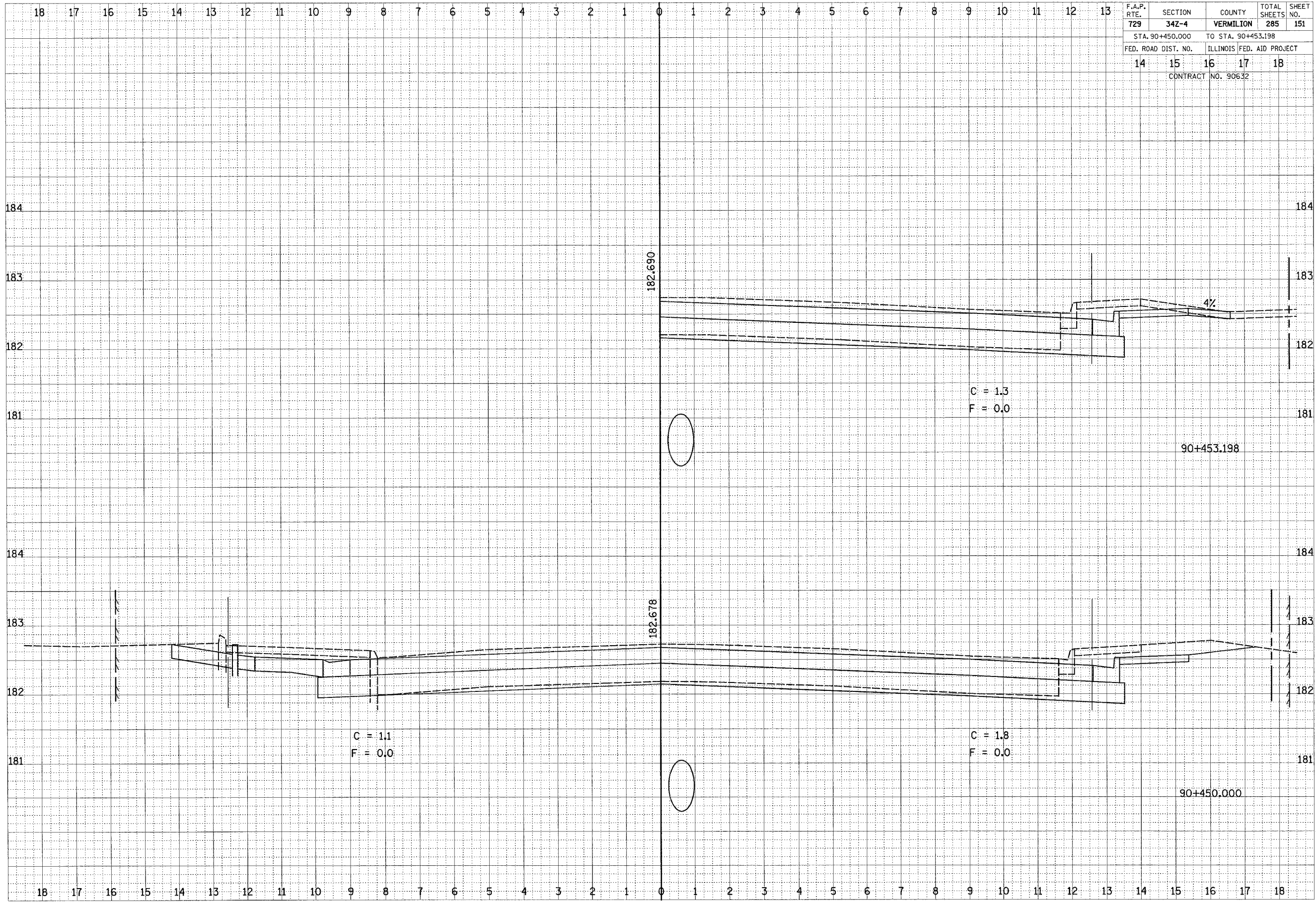
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	151
STA. 90+450.000		TO STA. 90+453.198		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
14	15	16	17	18
CONTRACT NO. 90632				

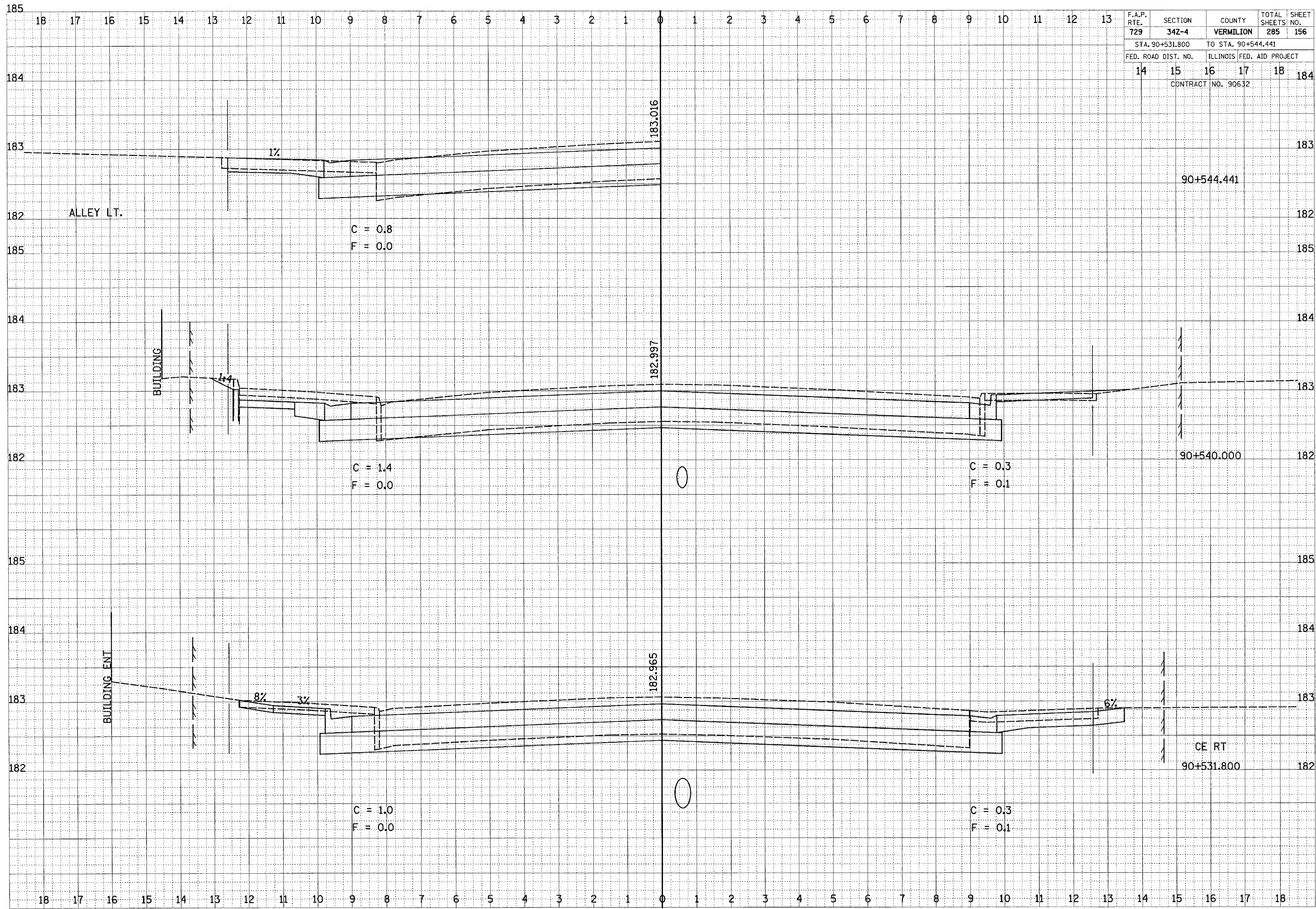
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CROSS SECTIONS, FAP 729 (US 136)

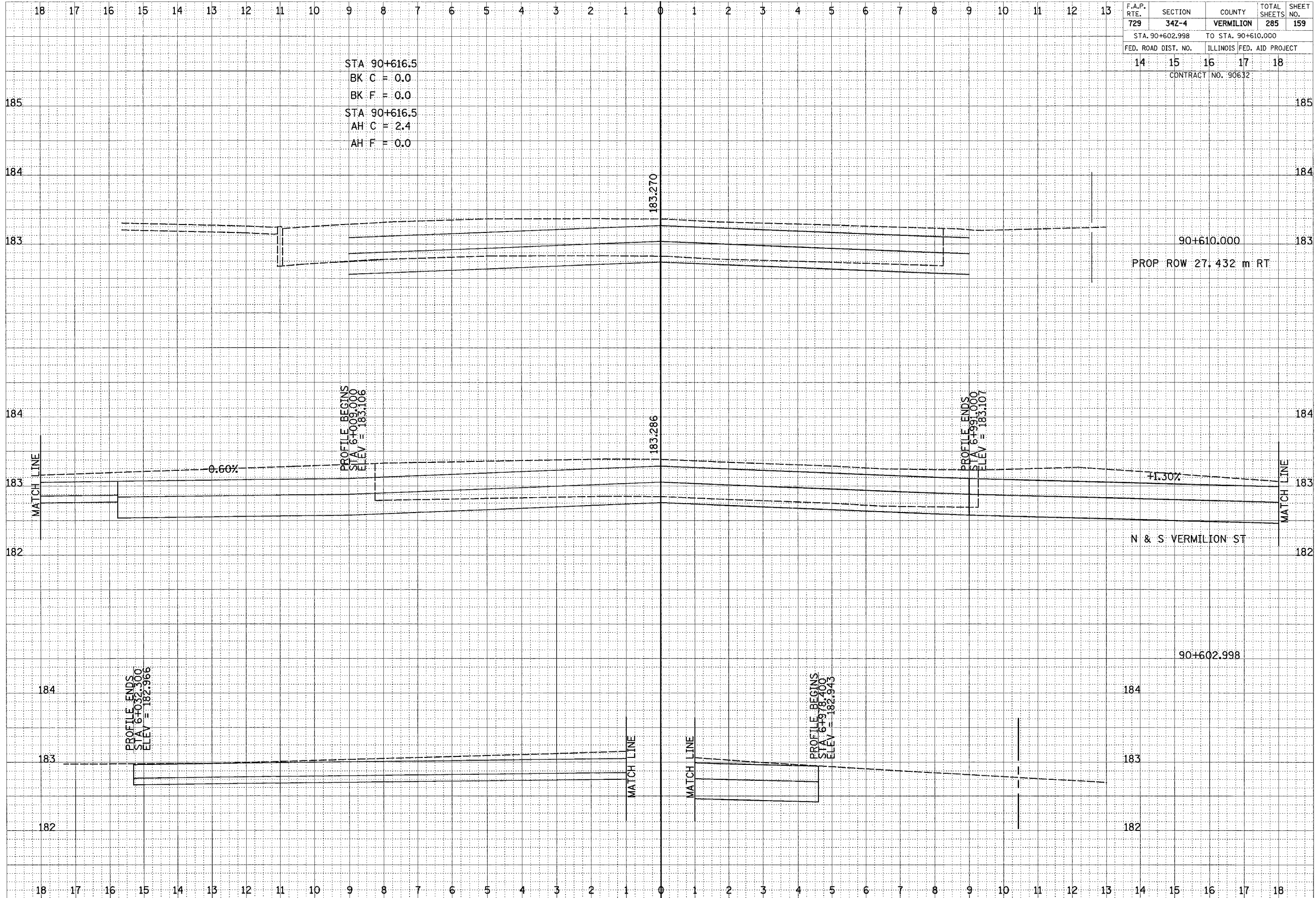
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	342-4	VERMILION	285	156
STA. 90+531.800		TO STA. 90+544.441		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
14	15	16	17	18
CONTRACT NO. 90632				



FINAL SURVEY	DATE
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NOTE BOOK	
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ORIGINAL SURVEY	DATE
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TEMPLATE	
NOTE BOOK	
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	159
STA. 90+602.998		TO STA. 90+610.000		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
14	15	16	17	18
CONTRACT NO. 90632				



STA 90+616.5
BK C = 0.0
BK F = 0.0
STA 90+616.5
AH C = 2.4
AH F = 0.0

PROFILE BEGINS
STA 6+009.000
ELEV = 183.106

PROFILE ENDS
STA 6+991.000
ELEV = 183.107

PROFILE ENDS
STA 6+032.300
ELEV = 182.966

PROFILE BEGINS
STA 6+978.400
ELEV = 182.943

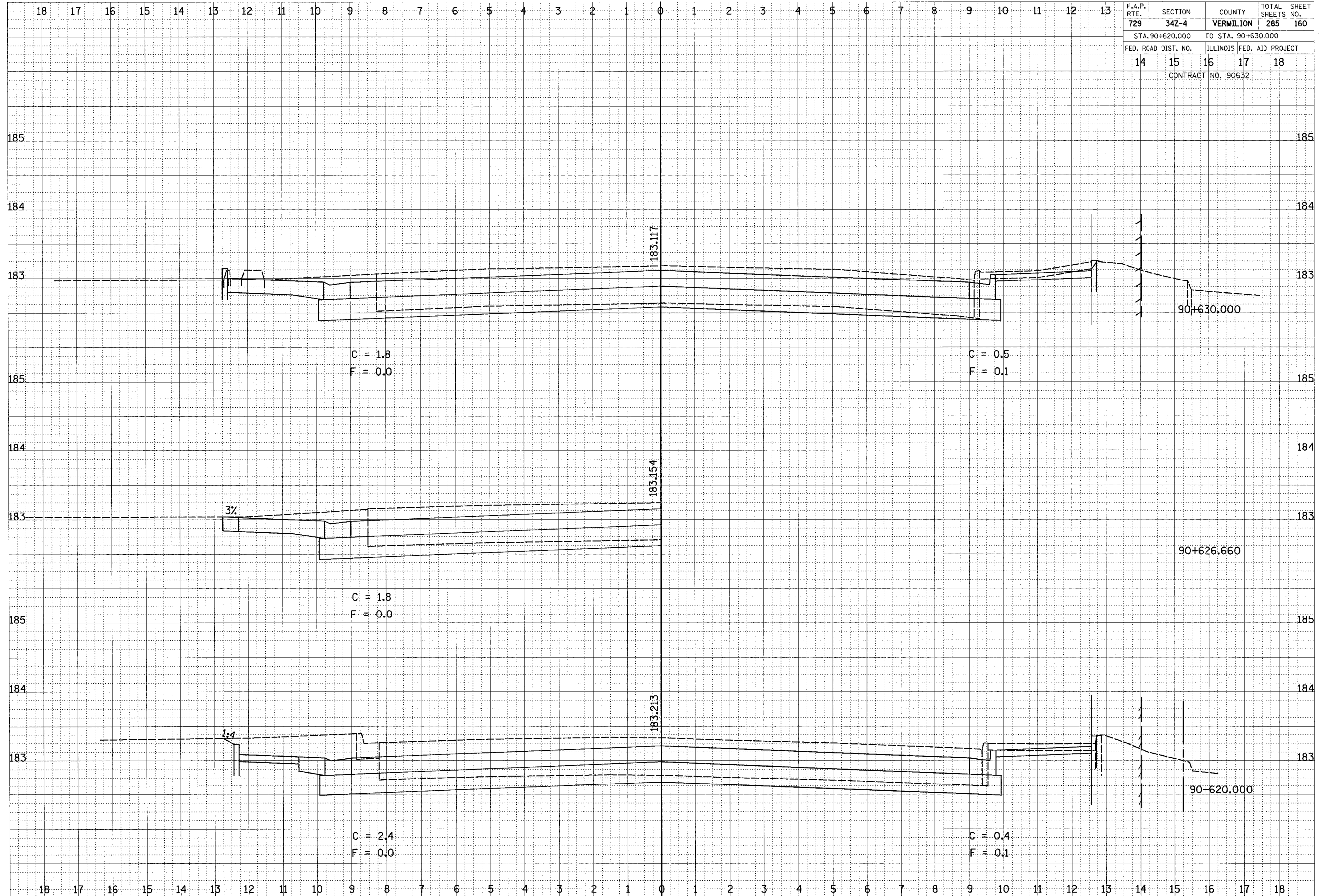
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	160
STA. 90+620.000		TO STA. 90+630.000		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
14	15	16	17	18
CONTRACT NO. 90632				

FINAL SURVEY	DATE
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NOTE BOOK	
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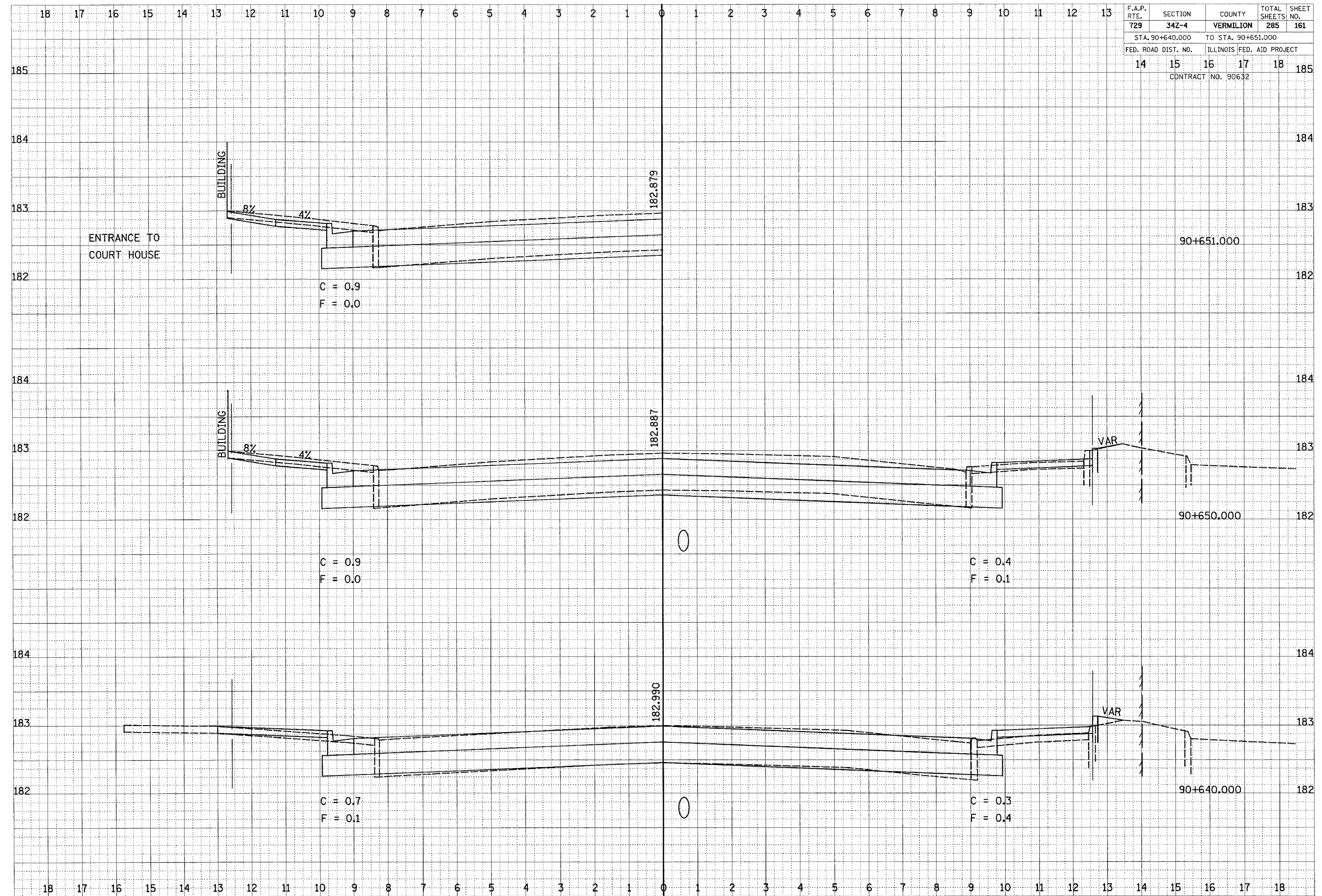


CROSS SECTIONS, FAP 729 (US 136)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	161
STA. 90+640.000		TO STA. 90+651.000		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
14	15	16	17	18
CONTRACT NO. 90632				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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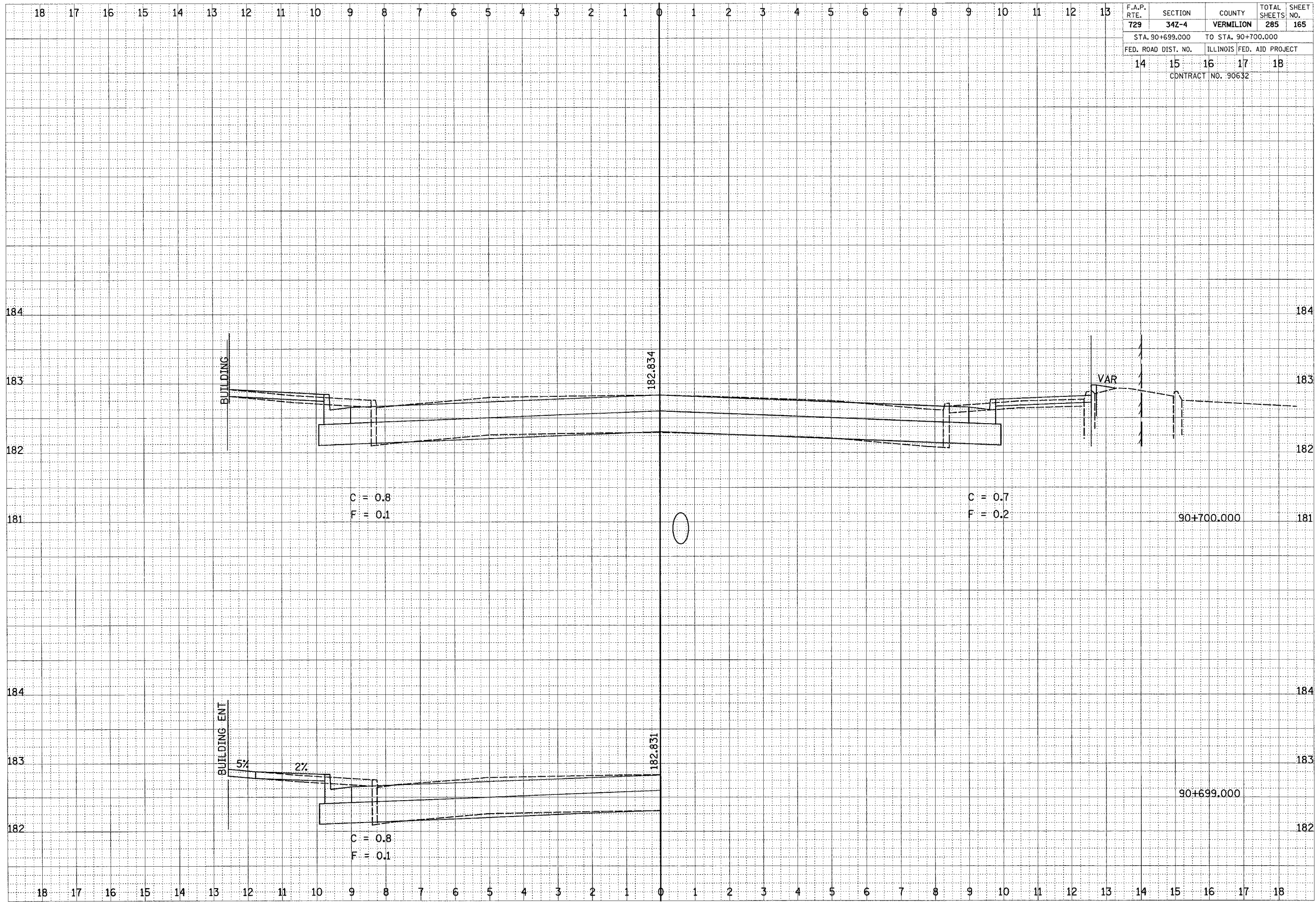


CROSS SECTIONS, FAP 729 (US 136)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	165
STA. 90+699.000		TO STA. 90+700.000		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
14	15	16	17	18
CONTRACT NO. 90632				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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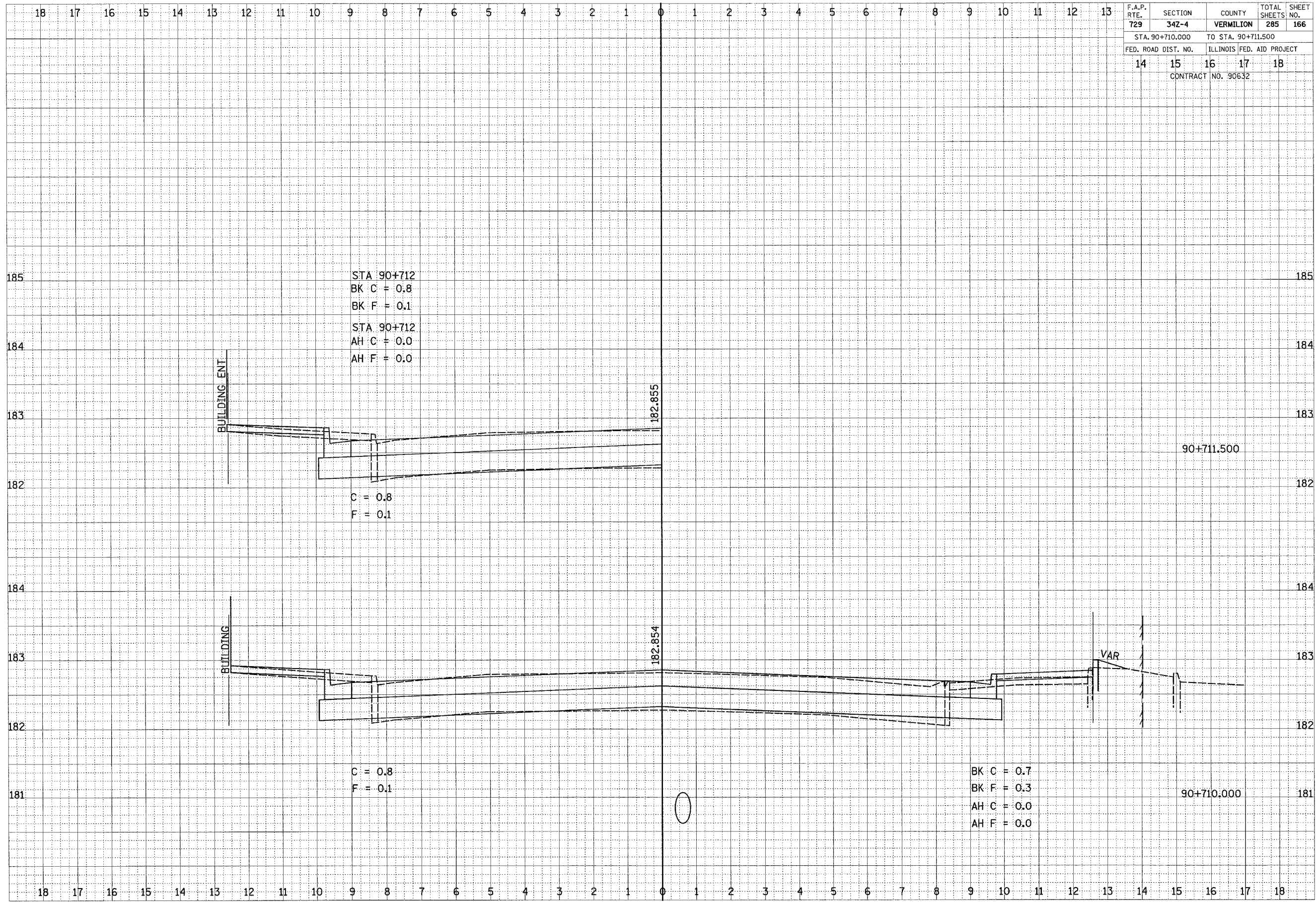


CROSS SECTIONS, FAP 729 (US 136)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	342-4	VERMILION	285	166
STA. 90+710.000		TO STA. 90+711.500		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
14	15	16	17	18
CONTRACT NO. 90632				

FINAL SURVEY	CHECKED	DATE
NOTE BOOK	PLOTTED	
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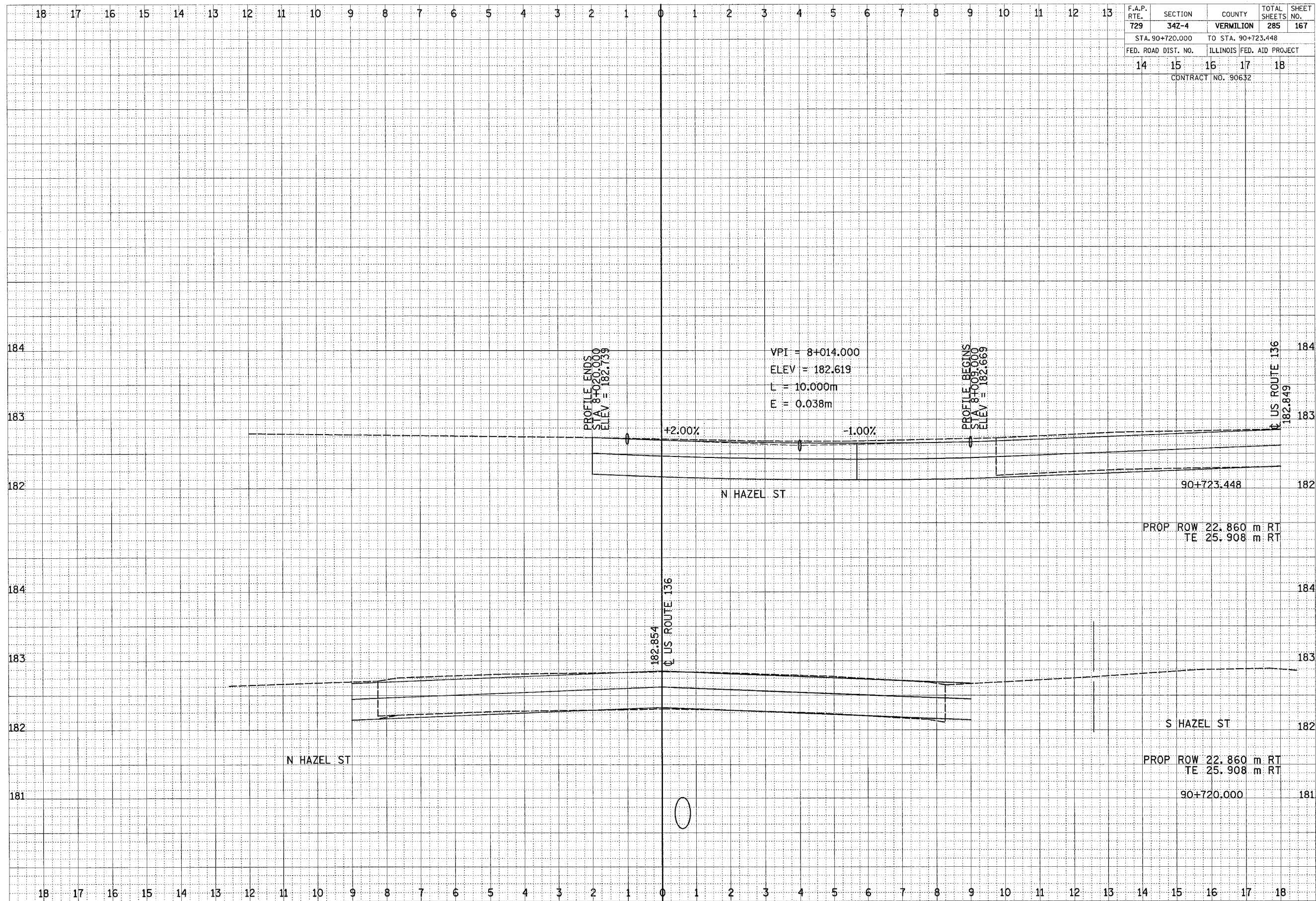


CROSS SECTIONS, FAP 729 (US 136)

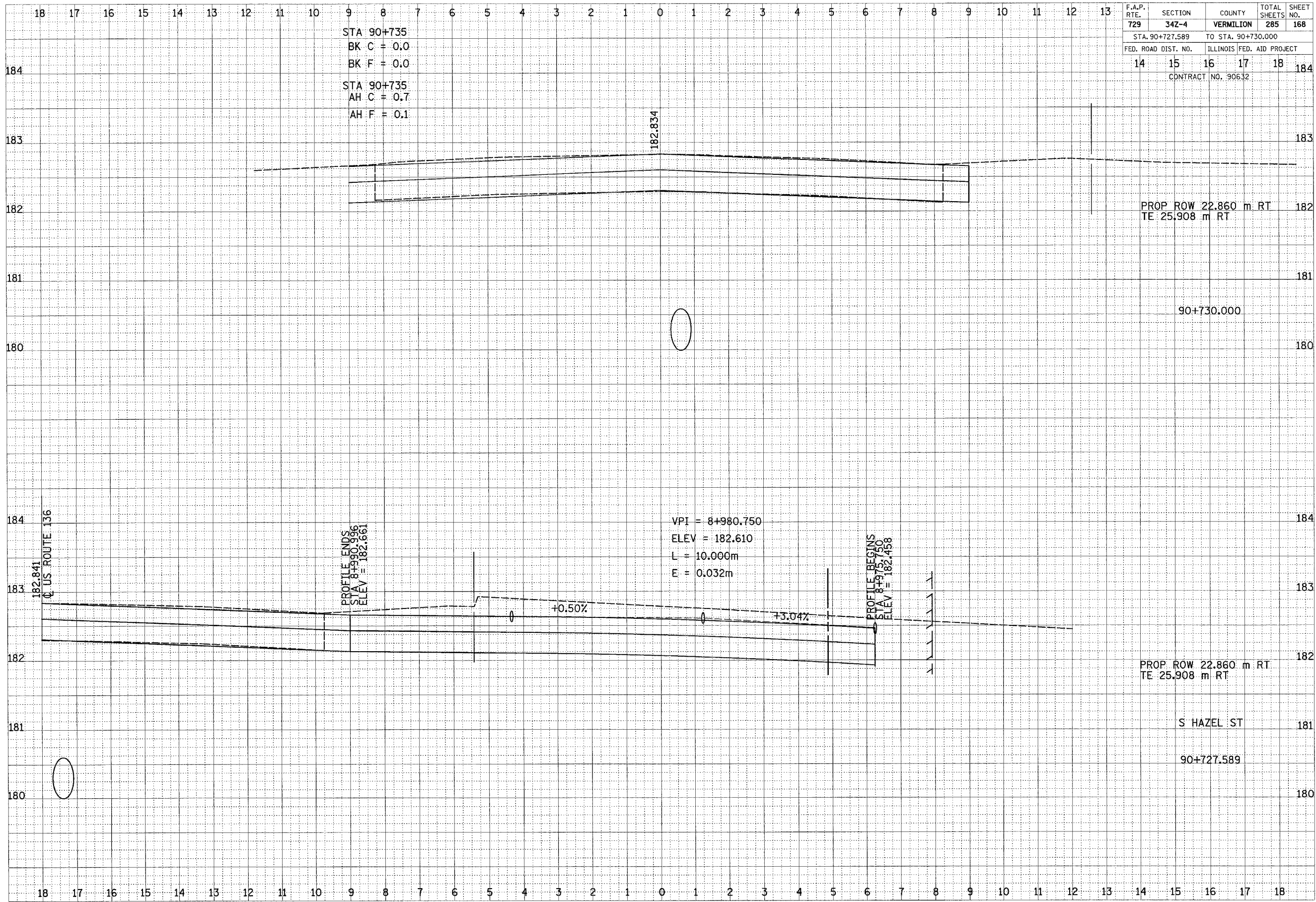
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	167
STA. 90+720.000		TO STA. 90+723.448		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
14	15	16	17	18
CONTRACT NO. 90632				

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

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



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	168
STA. 90+727.589 TO STA. 90+730.000				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
14	15	16	17	18
CONTRACT NO. 90632				



FINN	DATE
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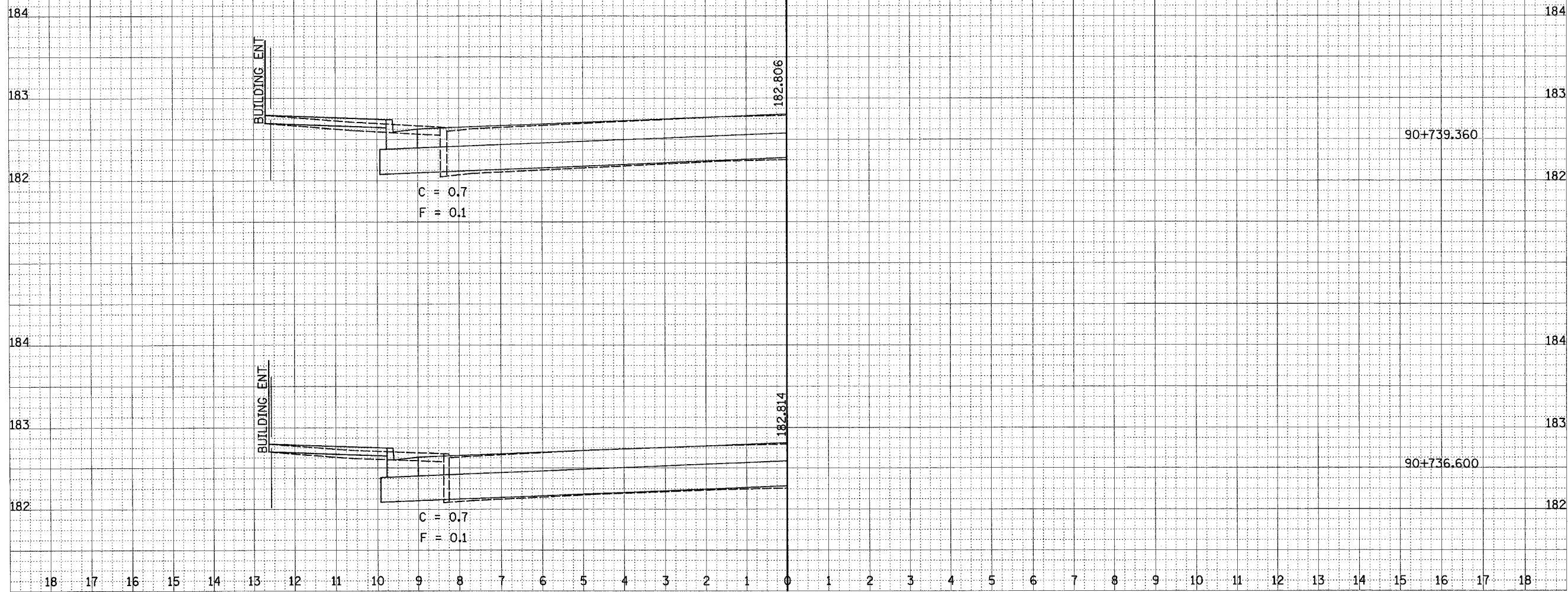
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	169
STA. 90+736.600		TO STA. 90+739.360		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
14	15	16	17	18
CONTRACT NO. 90632				

FINL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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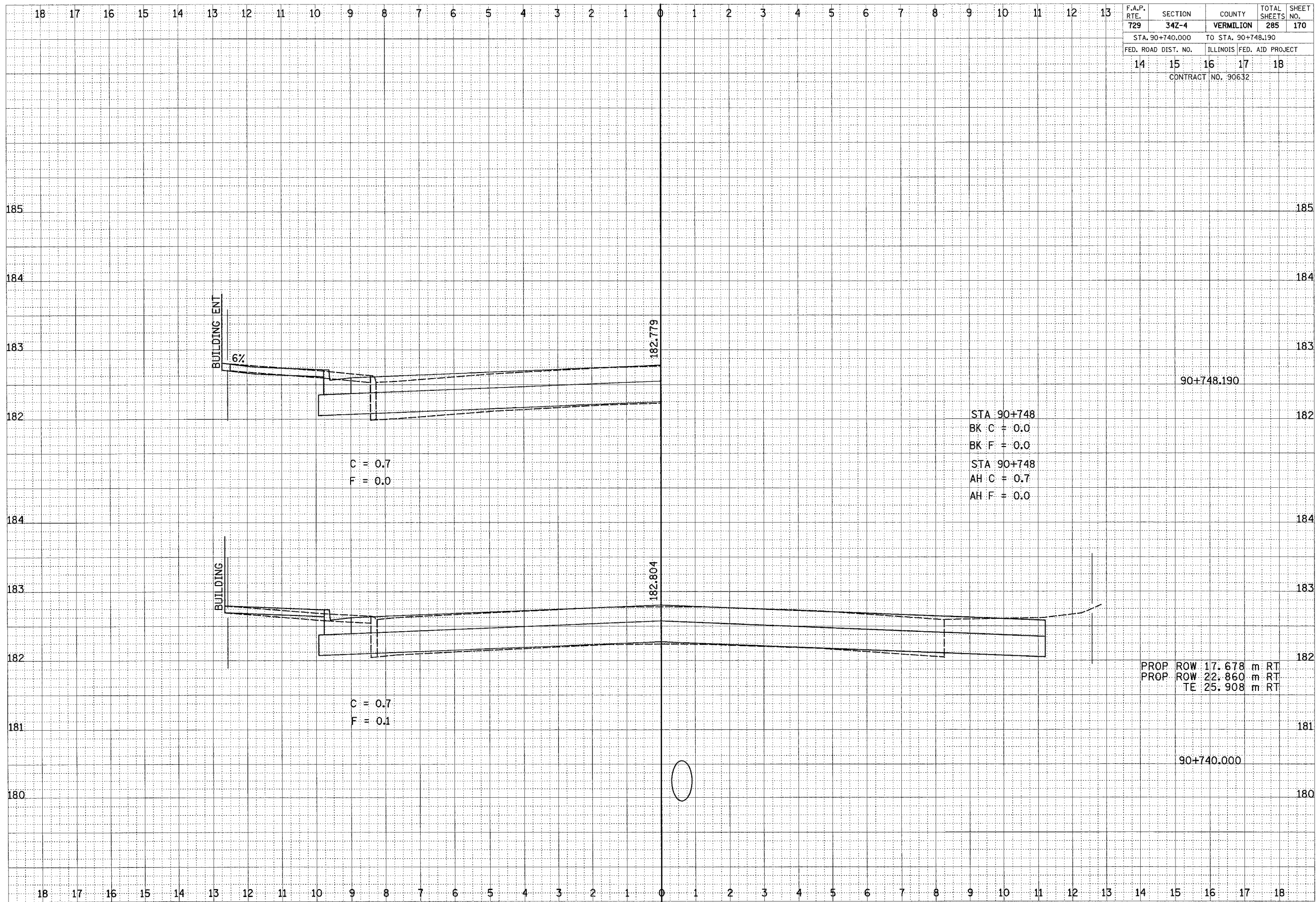
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NOTE BOOK	PLOTTED	BY
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	AREAS CHECKED	



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	170
STA. 90+740.000		TO STA. 90+748.190		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
14		15 16 17 18		
CONTRACT NO. 90632				

FINAL SURVEY	DATE
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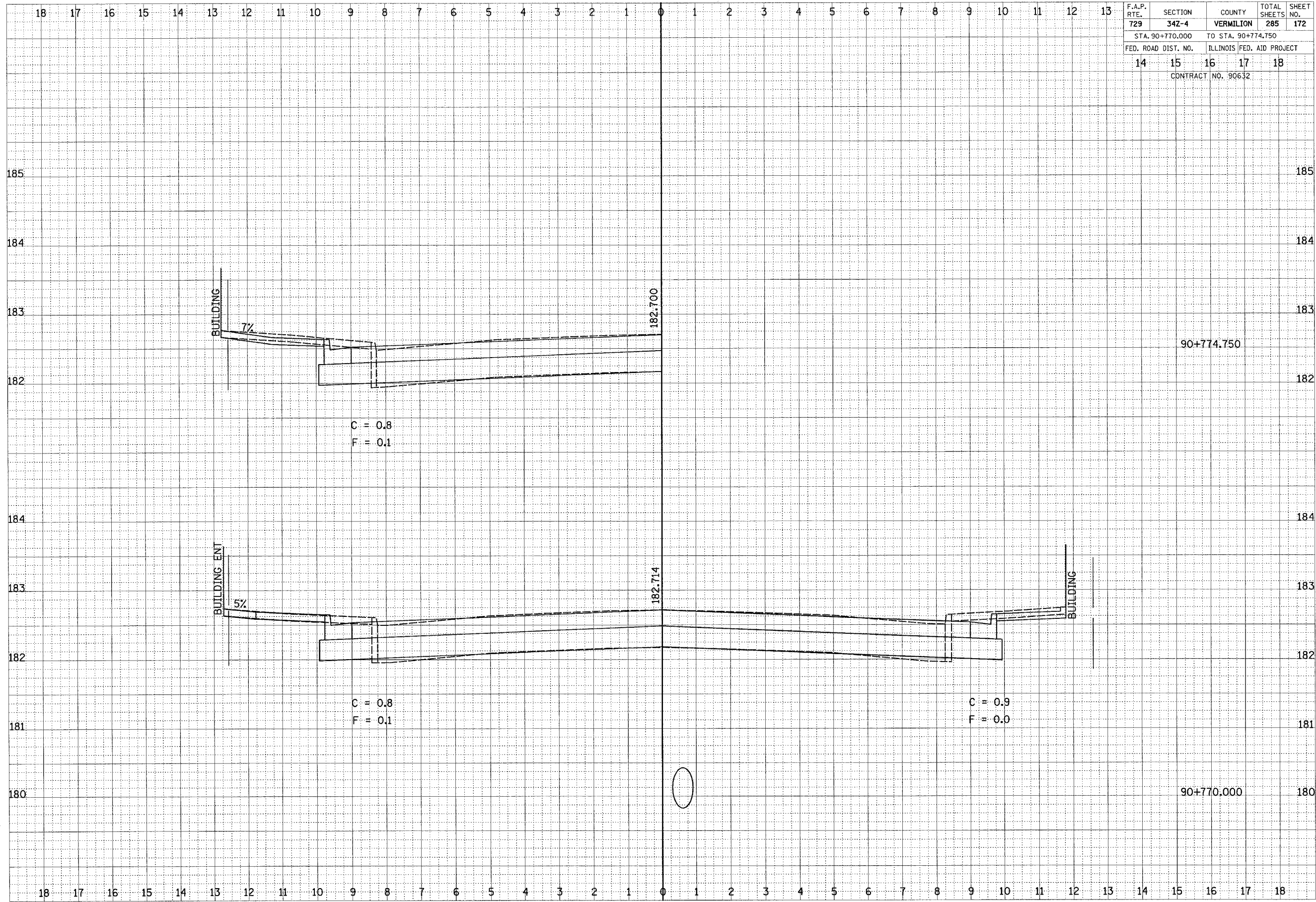
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	172
STA. 90+770.000		TO STA. 90+774.750		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
14	15	16	17	18
CONTRACT NO. 90632				

FINAL SURVEY	DATE
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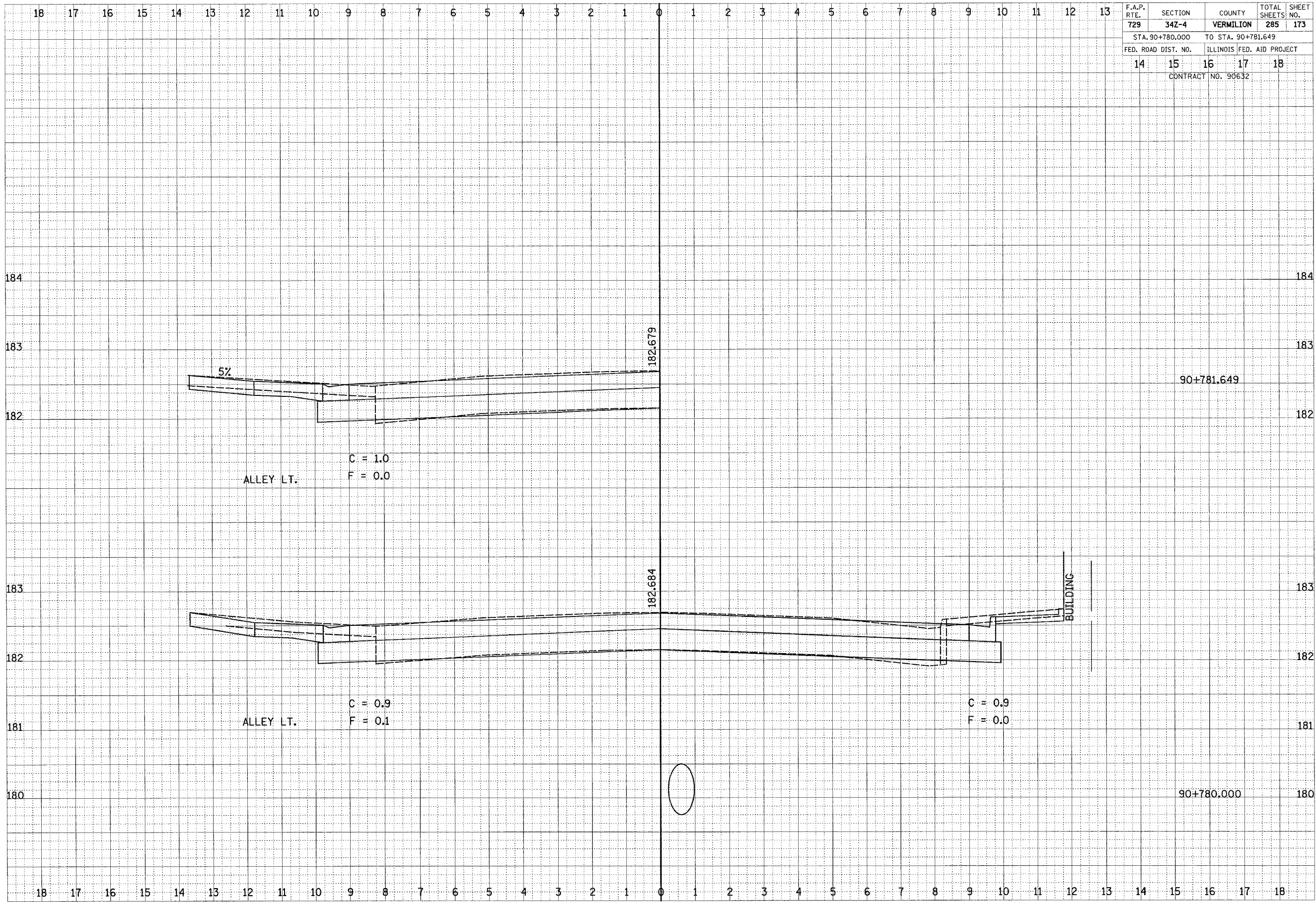
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NOTE BOOK	
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	173
STA. 90+780.000		TO STA. 90+781.649		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
14	15	16	17	18
CONTRACT NO. 90632				

FINAL SURVEY	SURVEYED	DATE
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ORIGINAL SURVEY	SURVEYED	DATE
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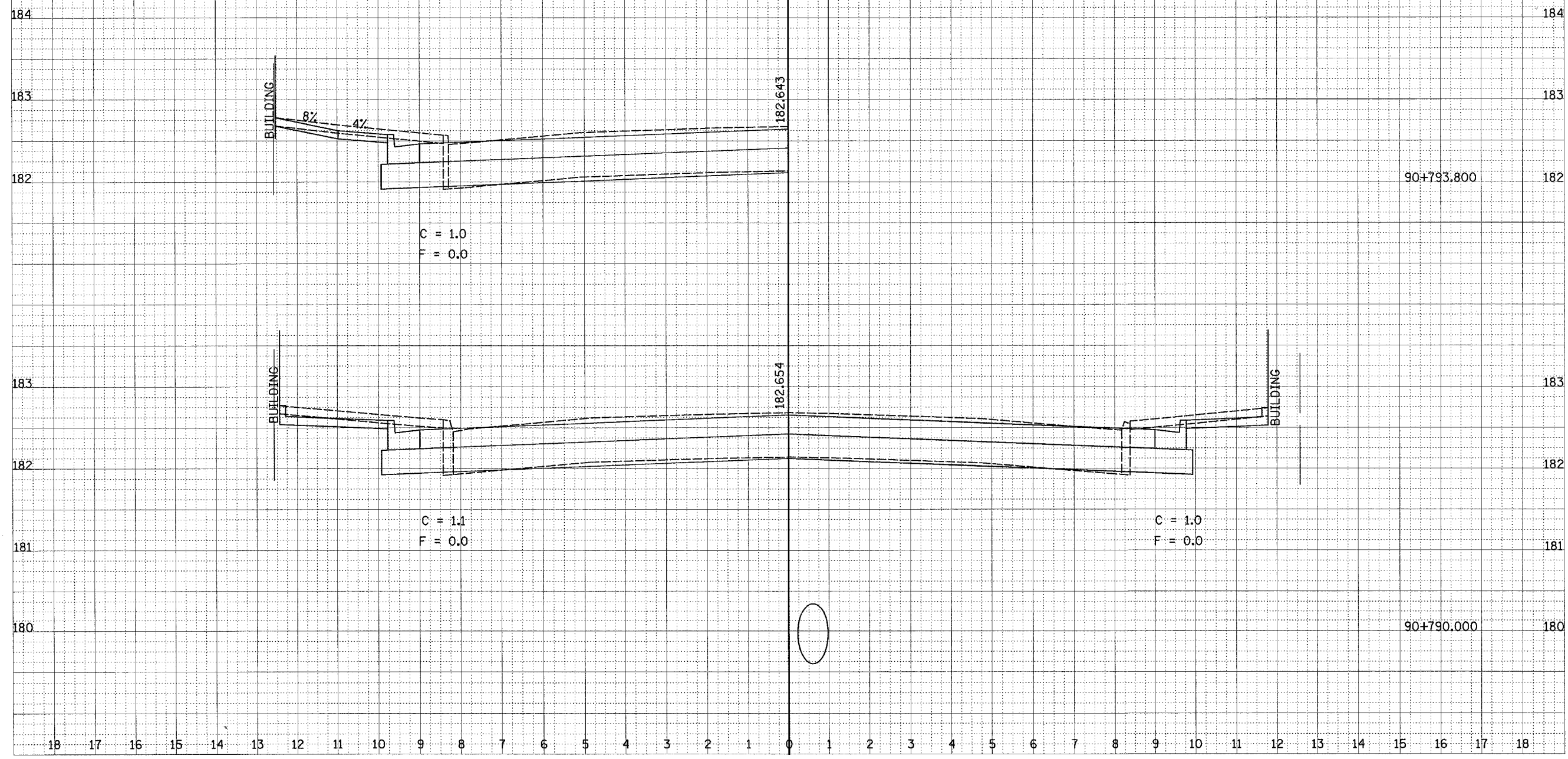


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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	174
STA. 90+790.000 TO STA. 90+793.800				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
14	15	16	17	18
CONTRACT NO. 90632				

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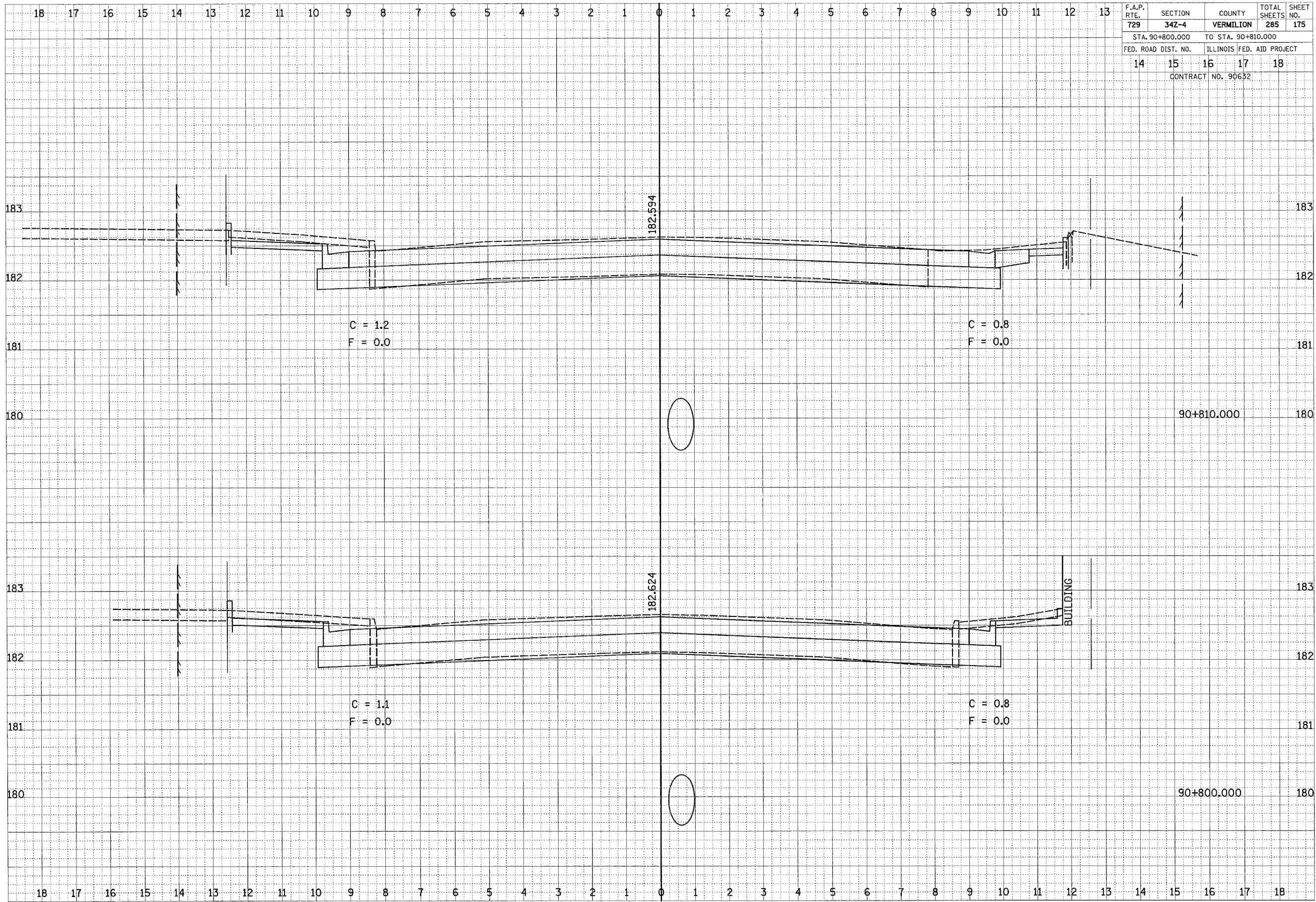
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	175
STA. 90+800.000 TO STA. 90+810.000				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
14	15	16	17	18
CONTRACT NO. 90632				

FINAL	SURVEYED	DATE
SUREY	PLOTTED	BY
NOTE BOOK	TEMPLATE	
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ORIGINAL	SURVEYED	DATE
SUREY	PLOTTED	BY
NOTE BOOK	TEMPLATE	
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CROSS SECTIONS, FAP 729 (US 136)

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F.A.P. RTE. 729	SECTION 34Z-4	COUNTY VERMILION	TOTAL SHEETS 285	SHEET NO. 176
STA. 90+816.520 TO STA. 90+820.000				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
14	15	16	17	18
CONTRACT NO. 90632				

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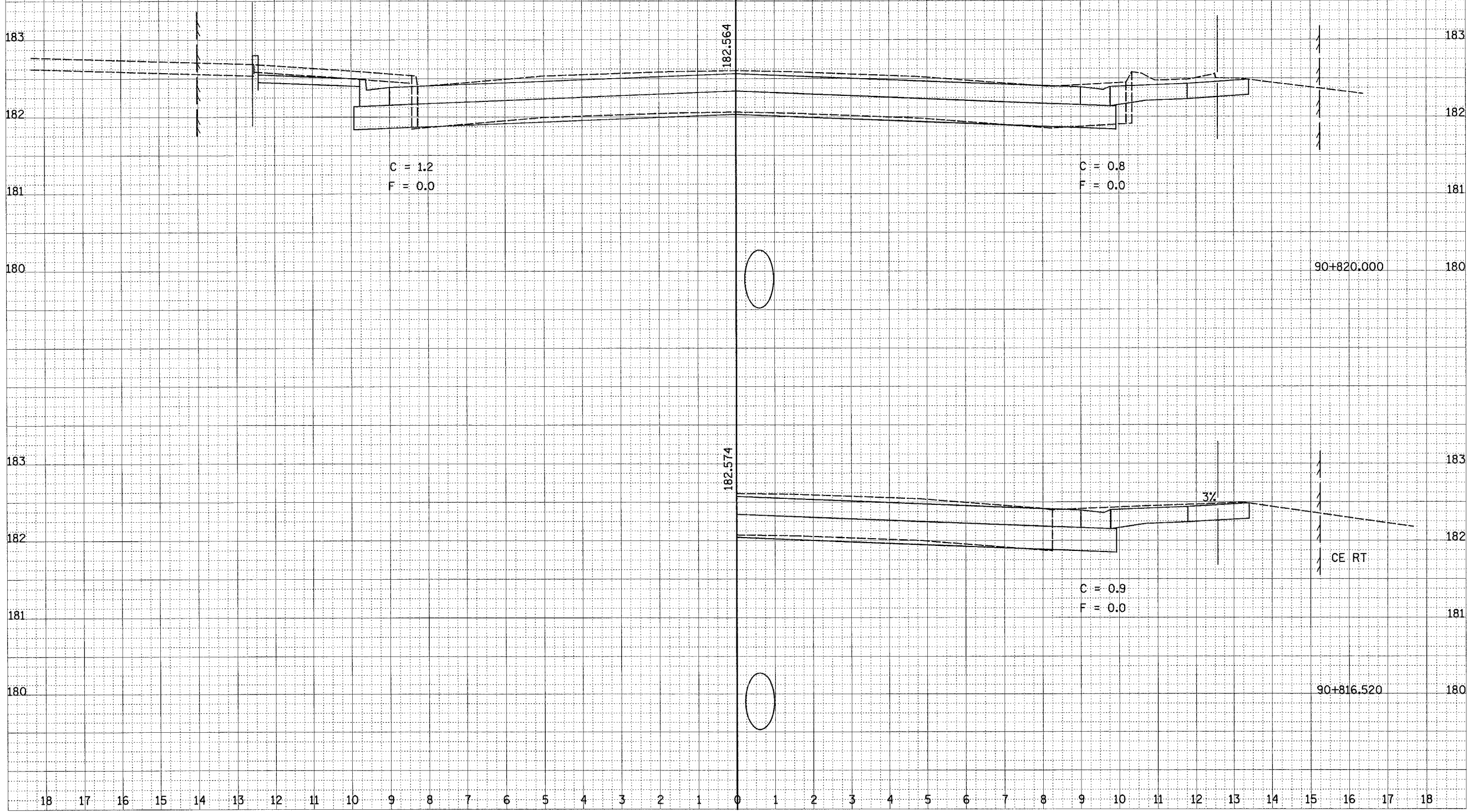
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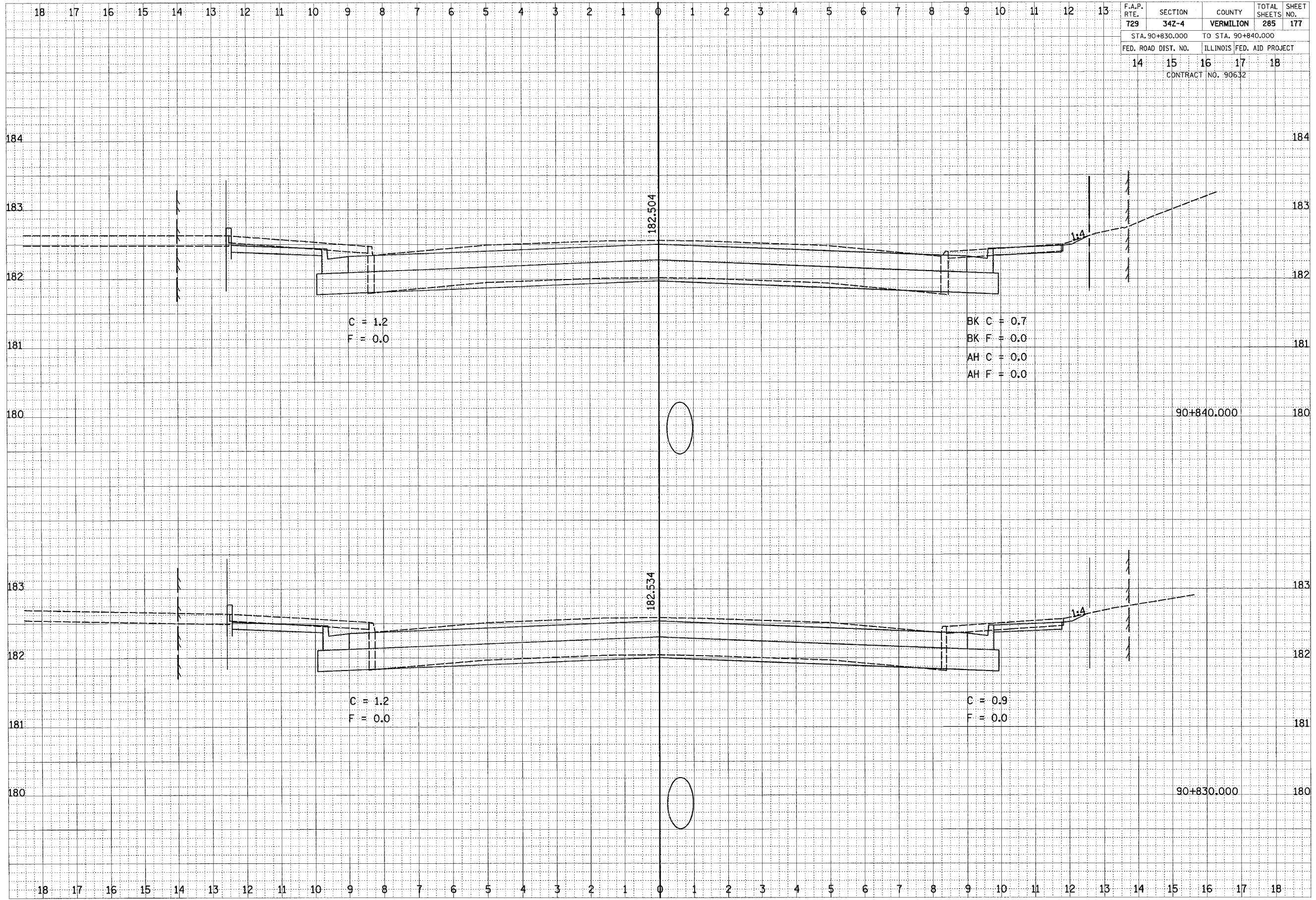
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	177
STA. 90+830.000 TO STA. 90+840.000				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
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CONTRACT NO. 90632				

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NOTE BOOK	
AREAS CHECKED	
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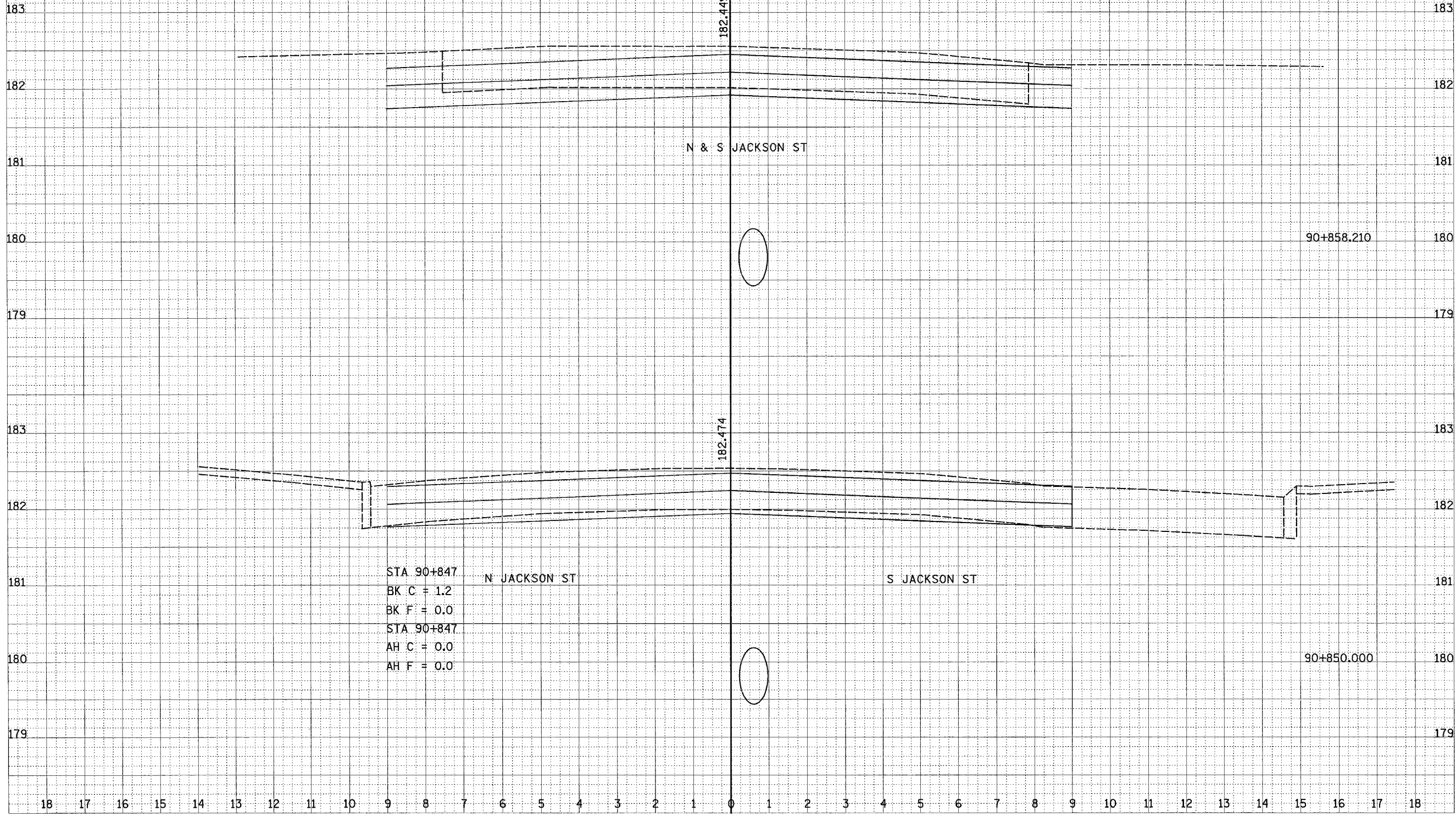
CROSS SECTIONS, FAP 729 (US 136)

18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 10 11 12 13

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	178
STA. 90+850.000		TO STA. 90+858.210		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
14 15 16 17 18		CONTRACT NO. 90632		

BY	DATE
ORIGINAL SURVEY	PLOTTED
REVISION	DATE
NO.	AREAS CHECKED

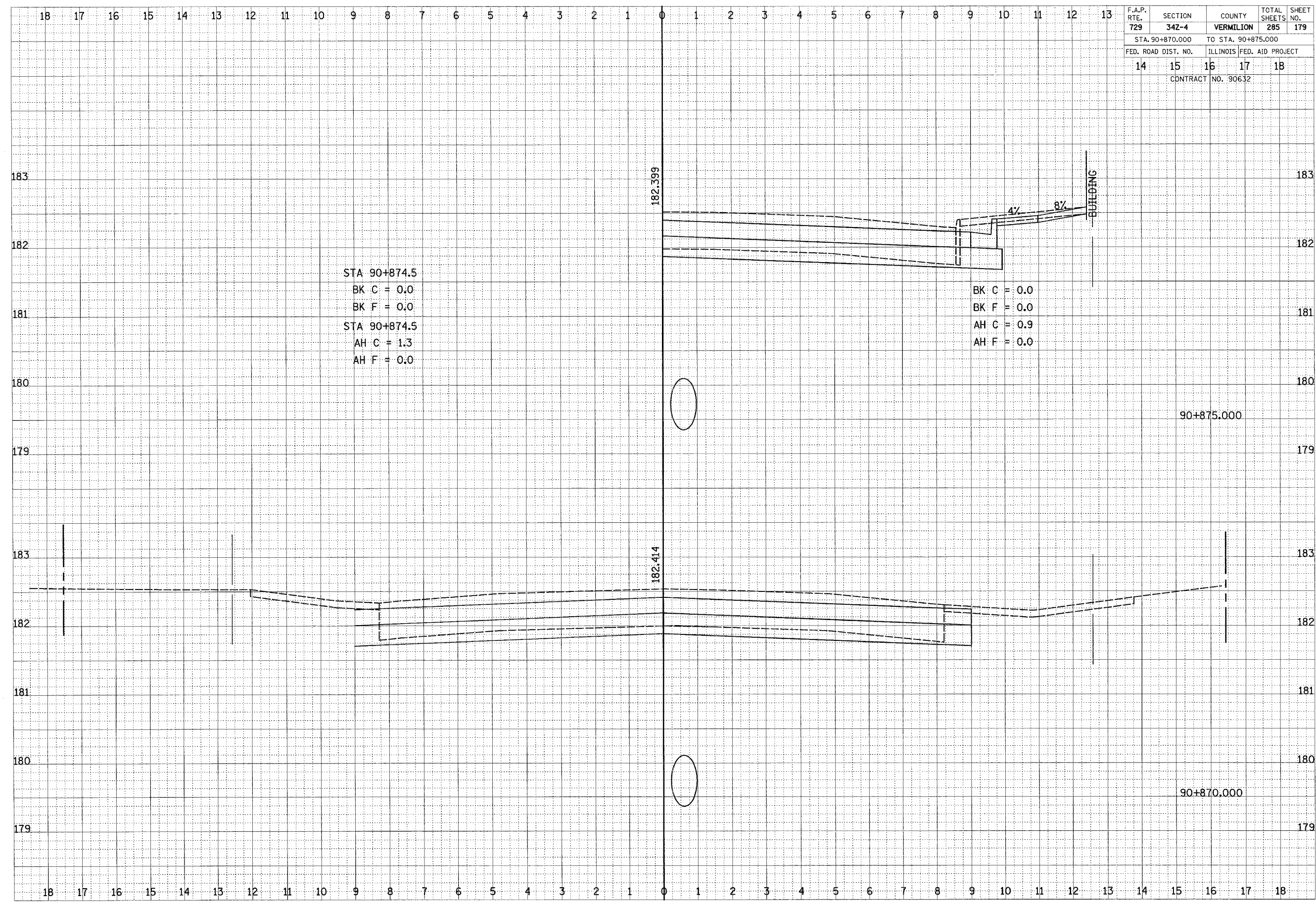
BY	DATE
ORIGINAL SURVEY	PLOTTED
REVISION	DATE
NO.	AREAS CHECKED



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	179
STA. 90+870.000		TO STA. 90+875.000		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
14	15	16	17	18
CONTRACT NO. 90632				

FINAL SURVEYED BY _____ DATE _____
 SURVEY PLOTTED _____
 NOTE BOOK TEMPLATE _____
 AREAS CHECKED _____

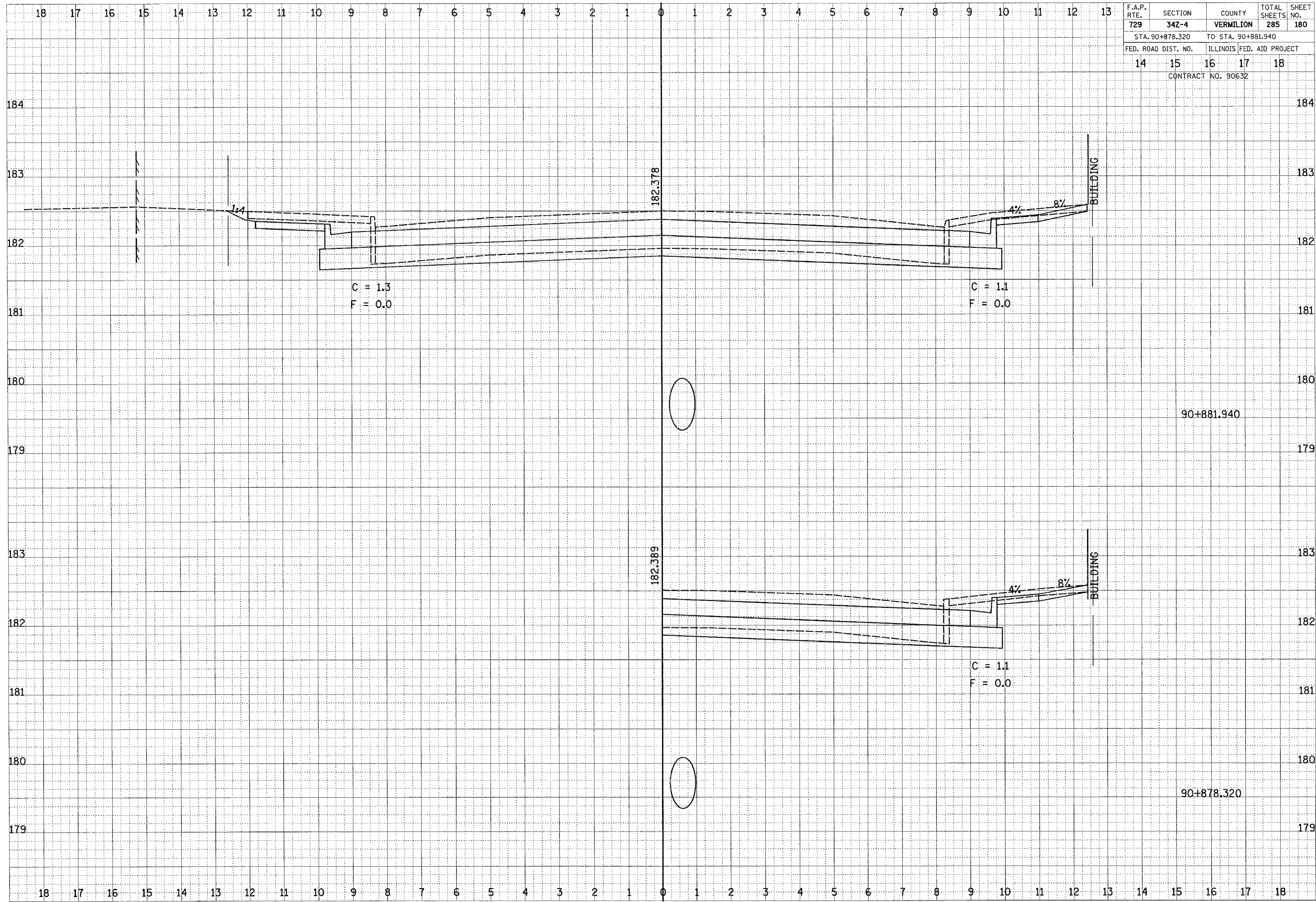
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 SURVEY PLOTTED _____
 NOTE BOOK TEMPLATE _____
 AREAS CHECKED _____



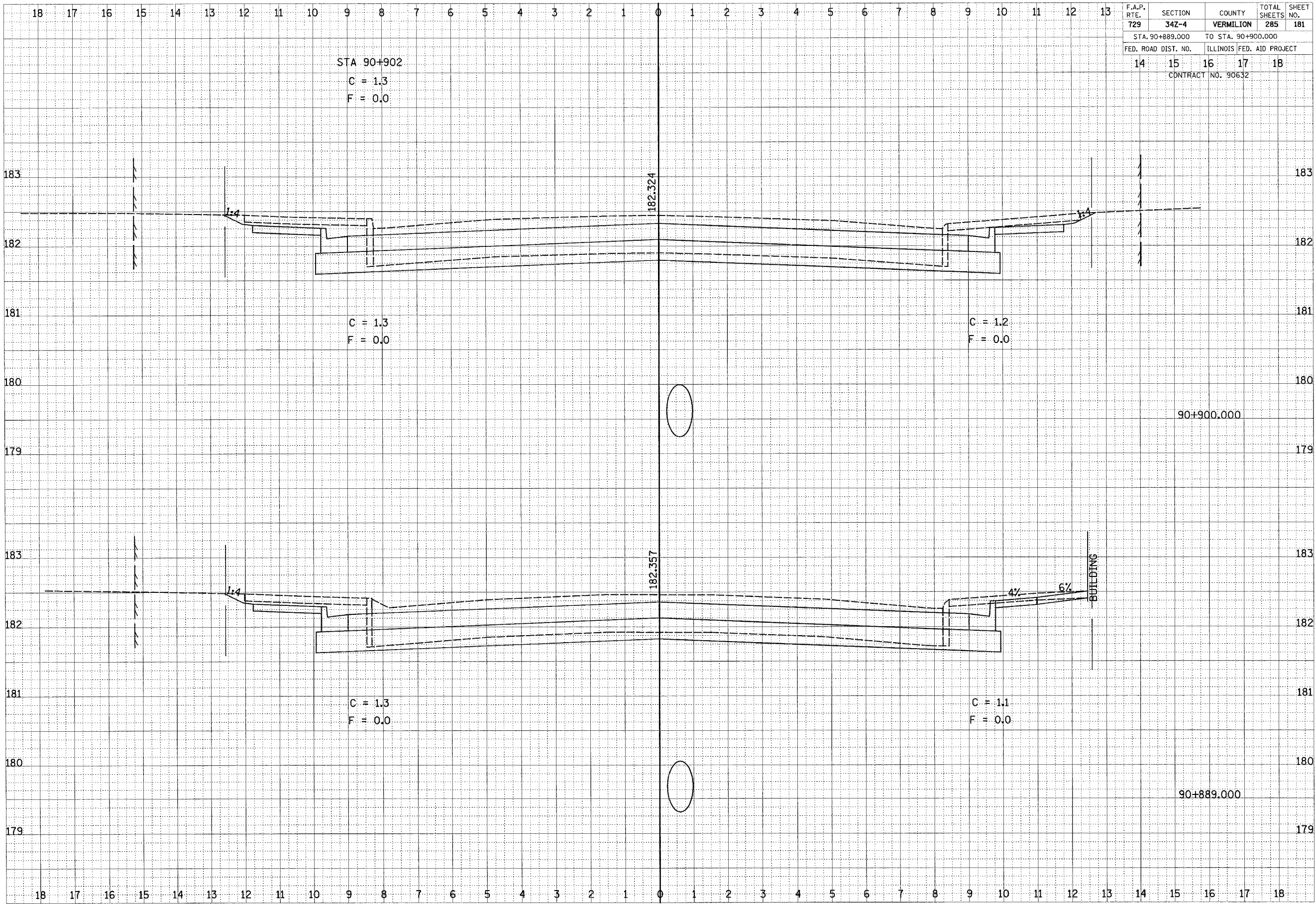
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	342-4	VERMILION	285	180
STA. 90+878.320		TO STA. 90+881.940		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
14		15 16 17 18		
CONTRACT NO. 90632				

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

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



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	181
STA. 90+889.000		TO STA. 90+900.000		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
14	15	16	17	18
CONTRACT NO. 90632				



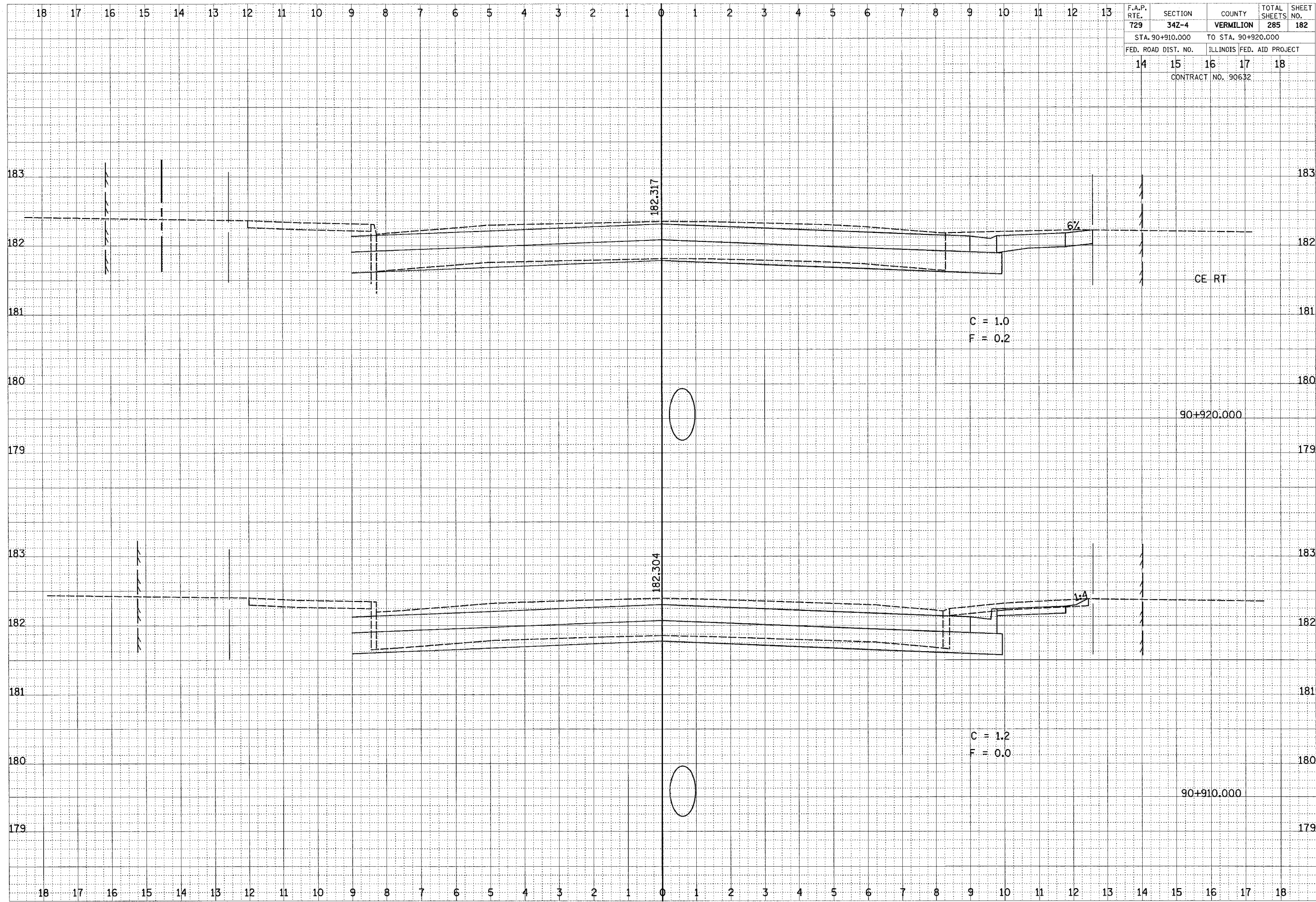
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BY	
NO.	
AREAS CHECKED	
AREAS	
TEMPLATE	
NOTE BOOK	
SURVEY	

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	182
STA. 90+910.000		TO STA. 90+920.000		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
14	15	16	17	18
CONTRACT NO. 90632				

FINAL SURVEY	DATE
REVISIONS	BY
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PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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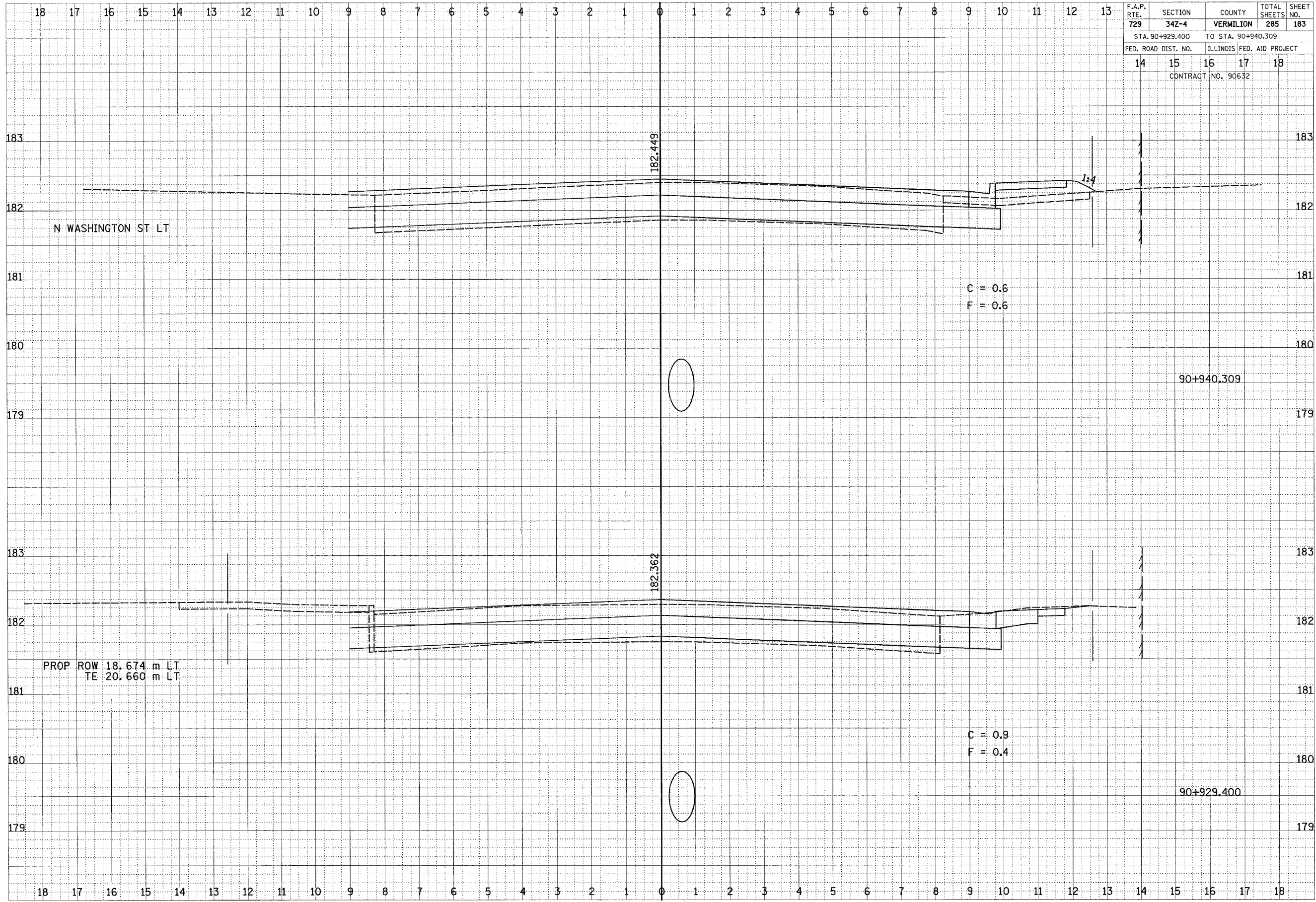
ORIGINAL SURVEY	DATE
REVISIONS	BY
NOTED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	183
STA. 90+929.400		TO STA. 90+940.309		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
14		15 16 17 18		
CONTRACT NO. 90632				

DATE	BY
FINISHED SURVEY	PLOTTED
NOTE BOOK	AREAS CHECKED
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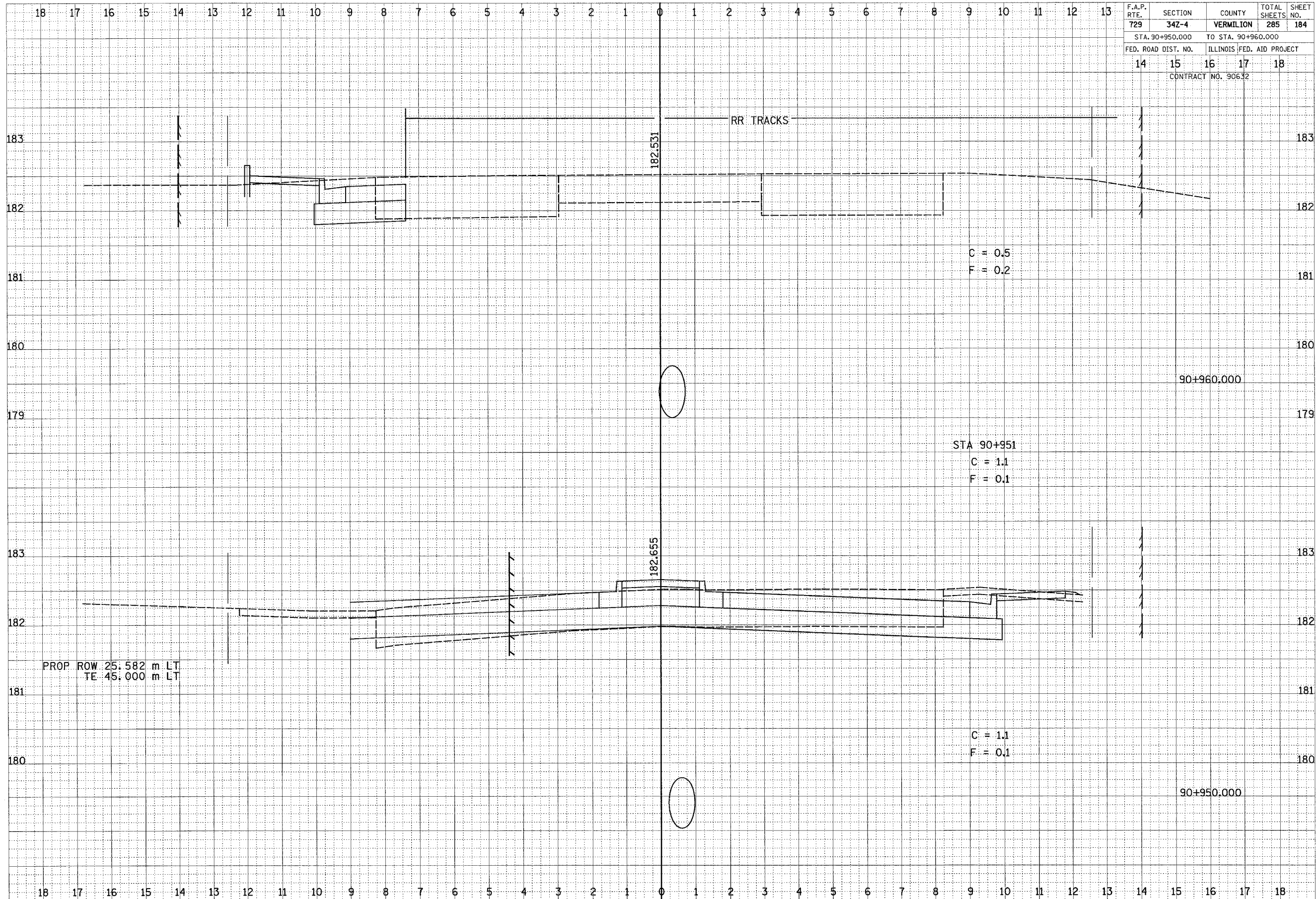
DATE	BY
ORIGINAL SURVEY	PLOTTED
NOTE BOOK	AREAS CHECKED
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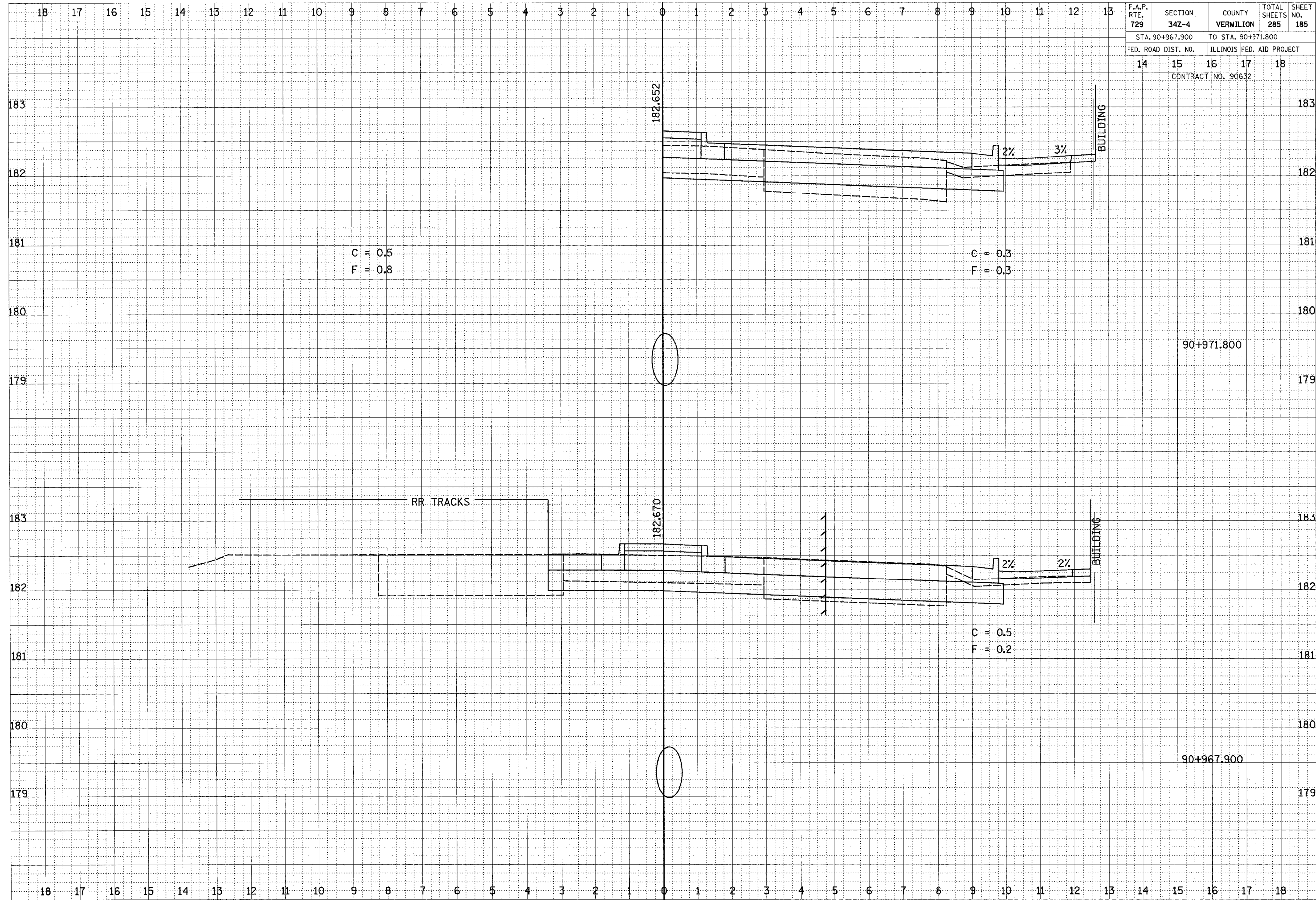
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	184
STA. 90+950.000		TO STA. 90+960.000		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
14	15	16	17	18
CONTRACT NO. 90632				

FINAL SURVEY NOTE BOOK NO.	BY	DATE
REVISIONS		
SCHEMATIC		
TEMPLATE		
AREAS		
CHECKED		

ORIGINAL SURVEY NOTE BOOK NO.	BY	DATE
REVISIONS		
SCHEMATIC		
TEMPLATE		
AREAS		
CHECKED		



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	185
STA. 90+967.900		TO STA. 90+971.800		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
14		15	16	17 18
CONTRACT NO. 90632				



DATE	
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TEMPERATURE	
NOTE BOOK	
AREAS CHECKED	
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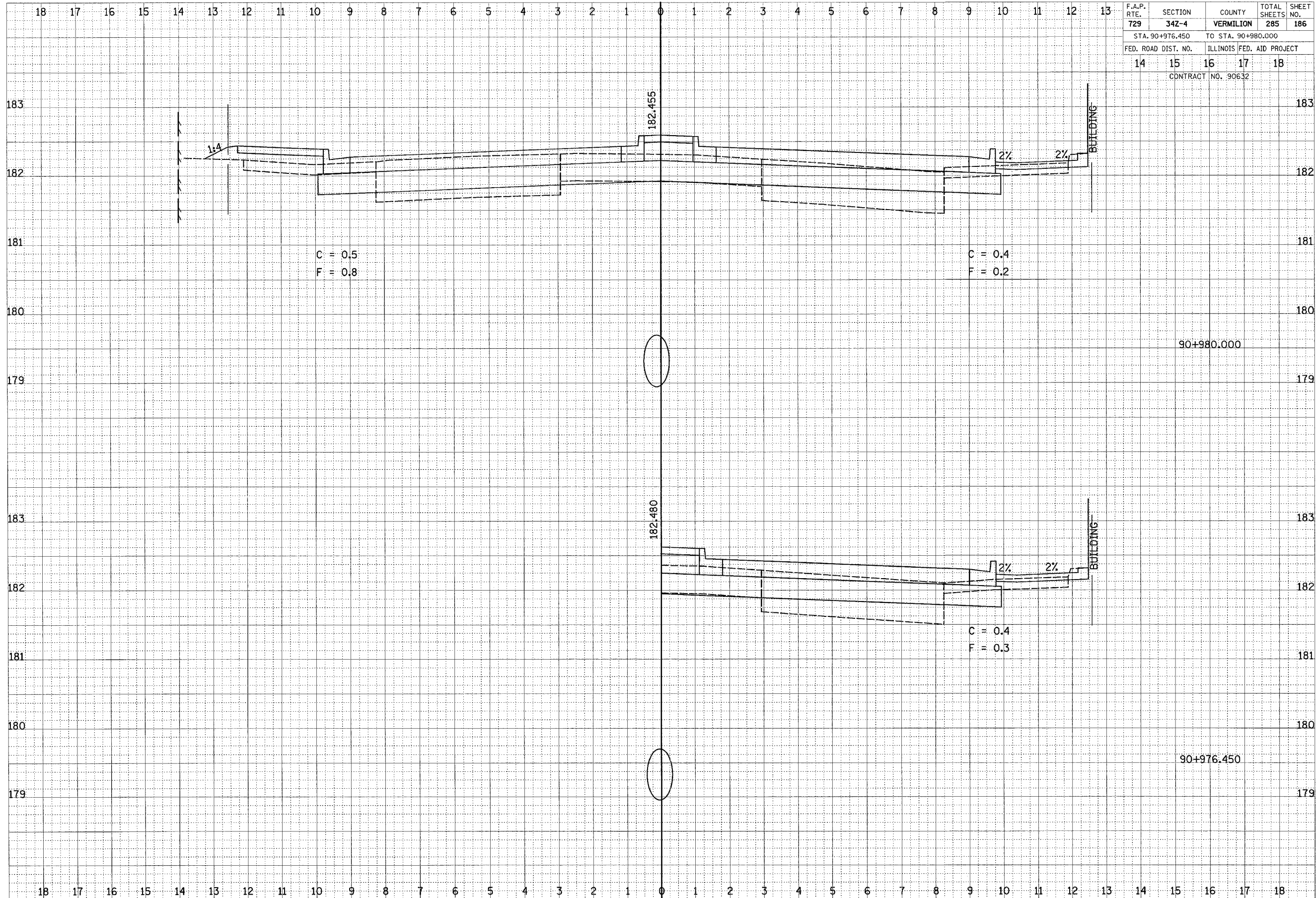
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BY	
ORIGINAL SURVEY	
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PLATTED	
TEMPERATURE	
NOTE BOOK	
AREAS CHECKED	
NO.	

CROSS SECTIONS, FAP 729 (US 136)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	186
STA. 90+976.450		TO STA. 90+980.000		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
14	15	16	17	18
CONTRACT NO. 90632				

DATE	BY
REVISIONS	
PLOTTED	
TEMP. DATE	
AREAS CHECKED	
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DATE	BY
REVISIONS	
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TEMP. DATE	
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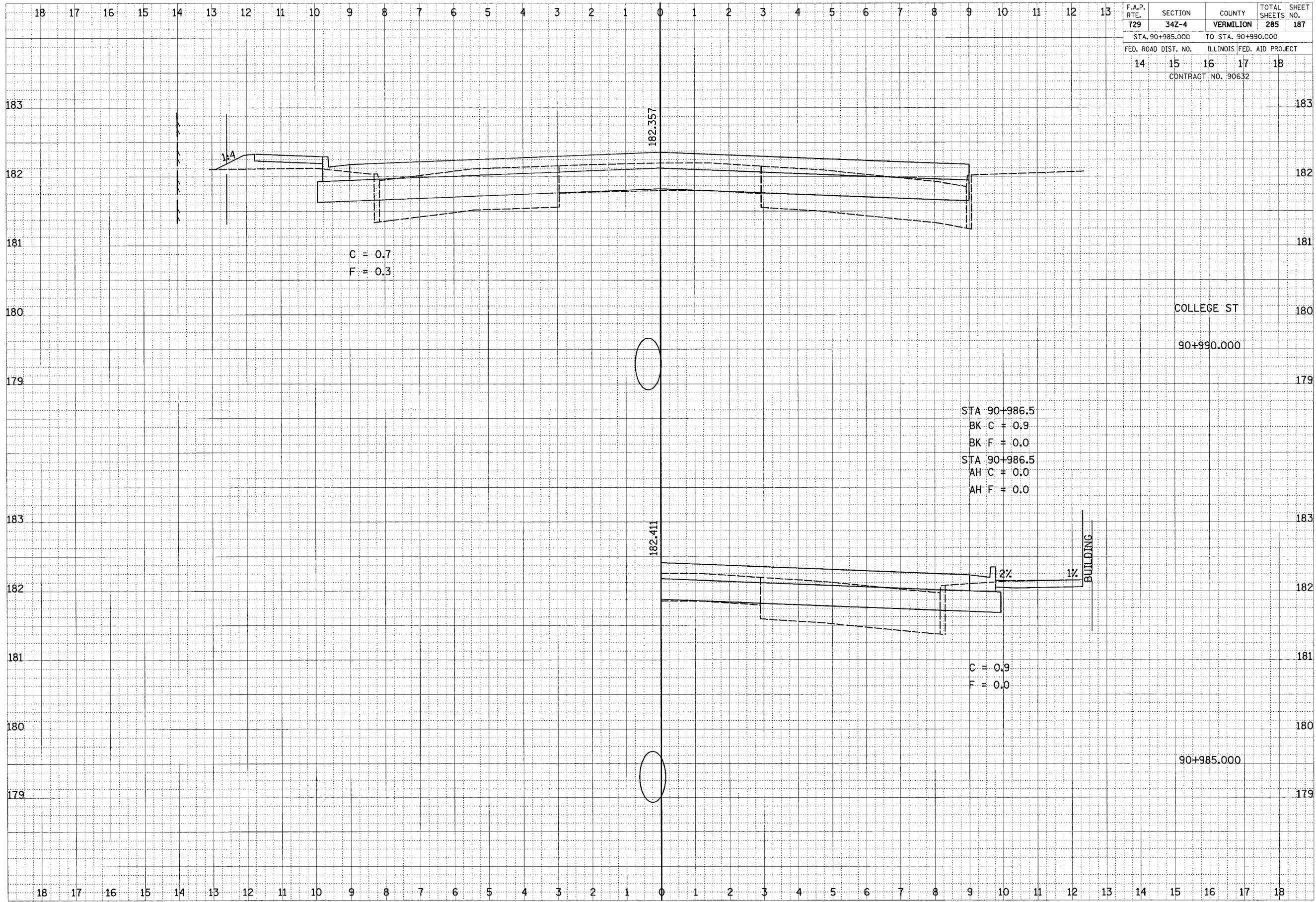


CROSS SECTIONS, FAP 729 (US 136)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	187
STA. 90+985.000 TO STA. 90+990.000				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
14		15 16 17 18		
CONTRACT NO. 90632				

FINN	DATE
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PLOTTED	
NOTE BOOK	
AREAS CHECKED	

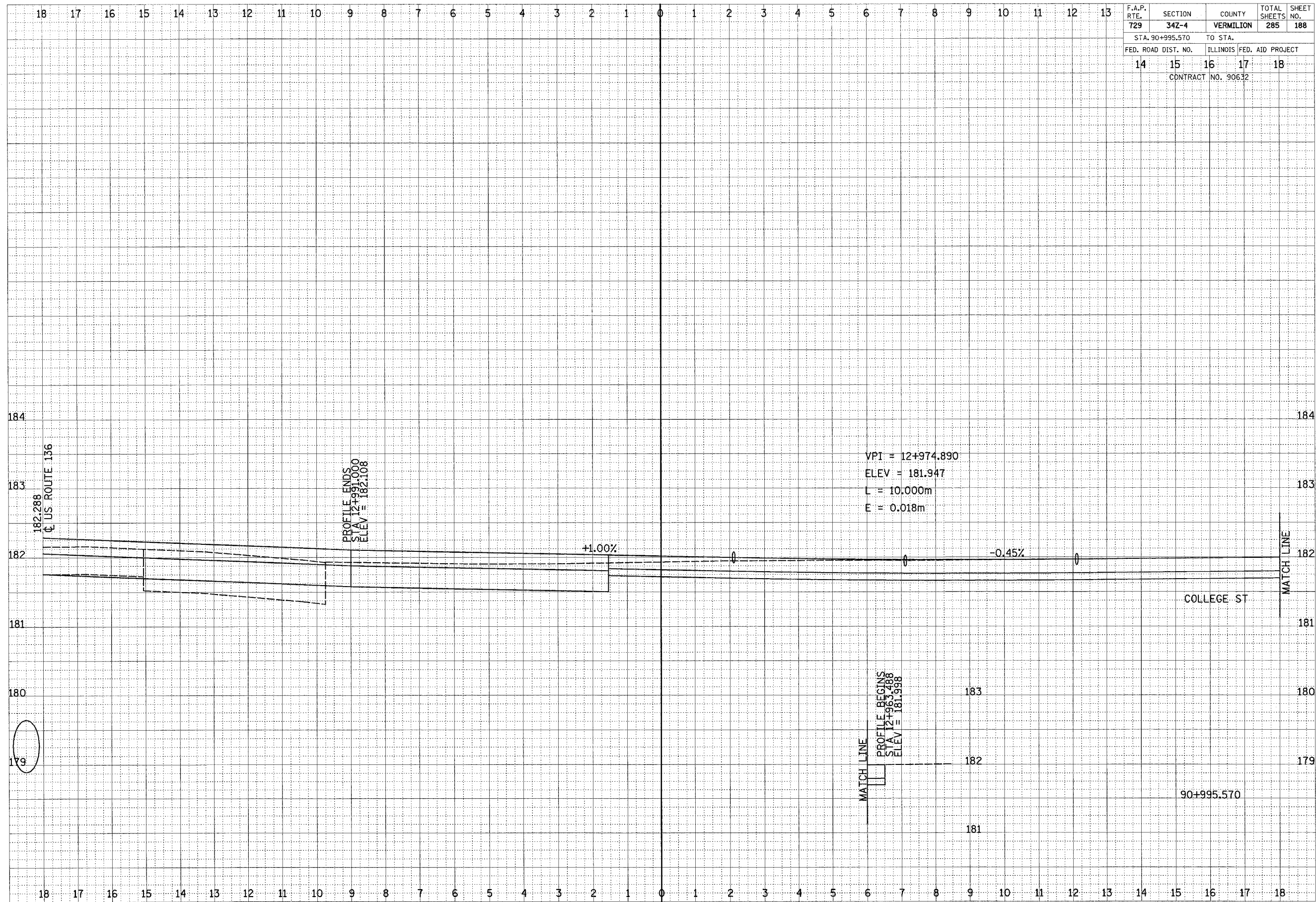
ORIGINAL	DATE
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PLOTTED	
NOTE BOOK	
AREAS CHECKED	



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	188
STA. 90+995.570		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
14	15	16	17	18
CONTRACT NO. 90632				

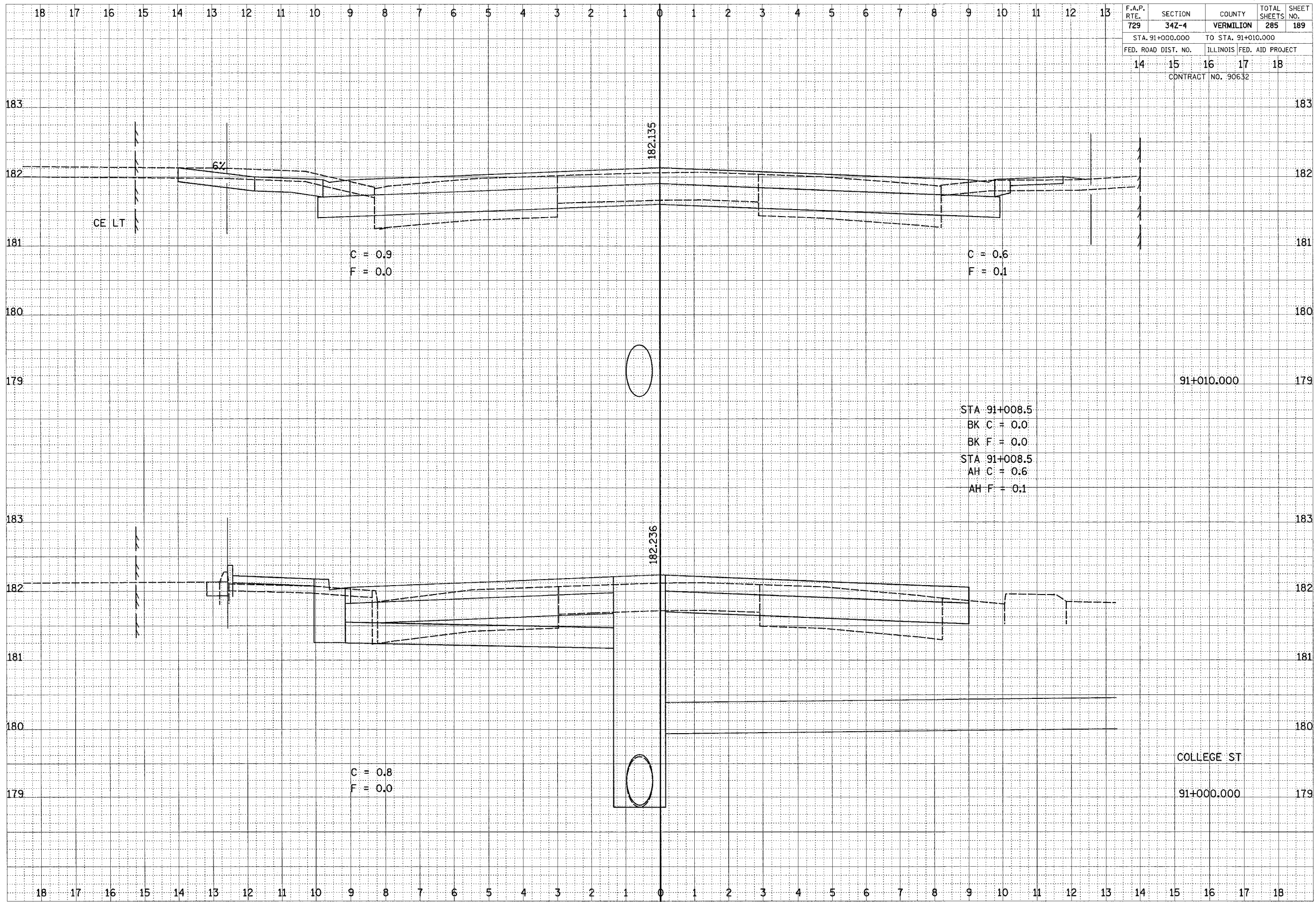
FINAL SURVEY	BY	DATE
SURVEY		
NOTE BOOK		
TEMPLATE		
AREAS CHECKED		
NO.		

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



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	189
STA. 91+000.000		TO STA. 91+010.000		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
14	15	16	17	18
CONTRACT NO. 90632				

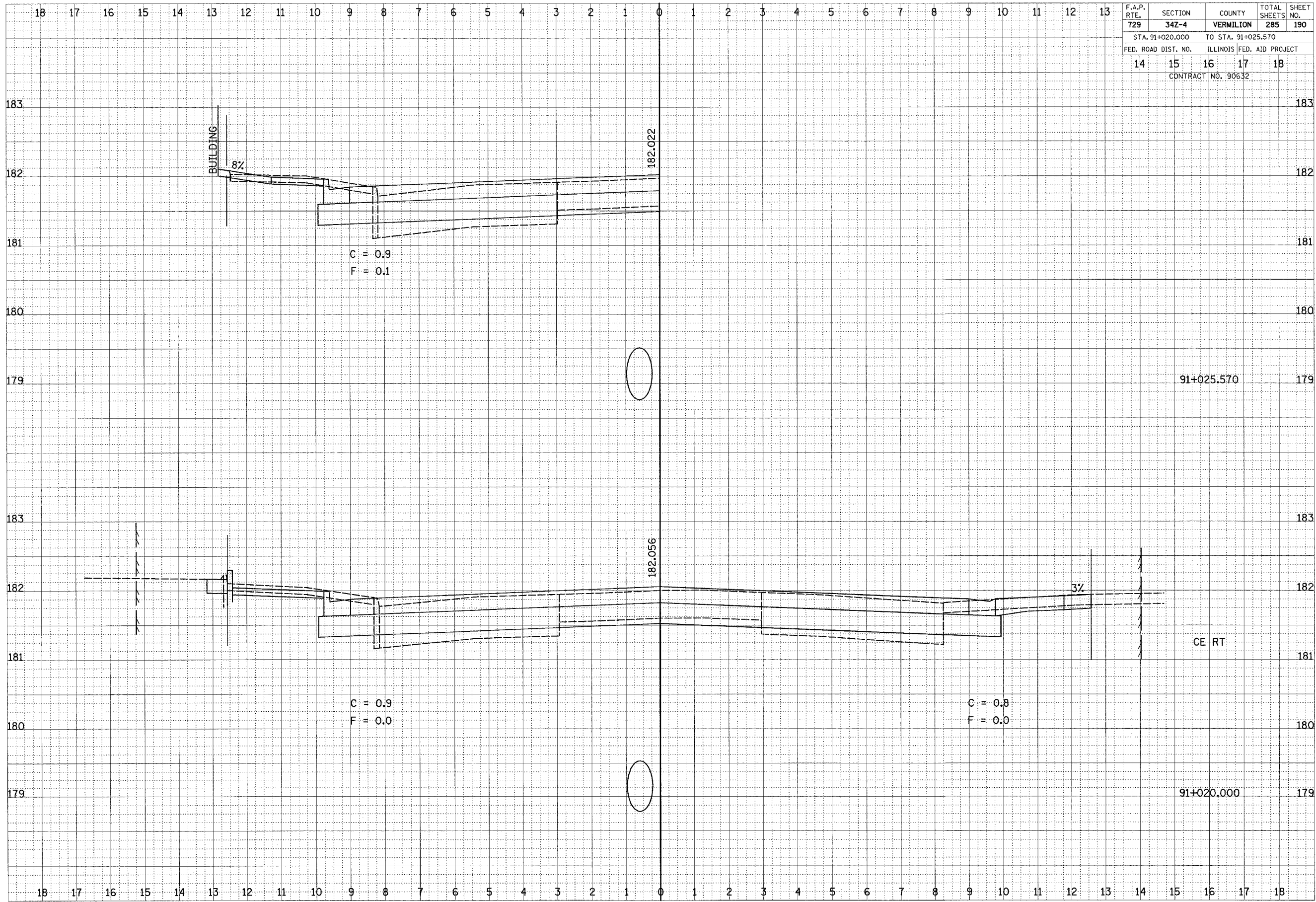
DATE	BY
FINISHED SURVEY	SURVEYED
NOTE BOOK	FLATTED
NO.	AREAS CHECKED



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	190
STA. 91+020.000 TO STA. 91+025.570				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
14		15 16 17 18		
CONTRACT NO. 90632				

FINL SURVEY	DATE
BY	
CURVED SURVEY	
PLOTTED	
REPLATE	
NOTE BOOK	
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AREAS CHECKED	

ORIGINAL SURVEY	DATE
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CURVED SURVEY	
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NOTE BOOK	
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AREAS CHECKED	

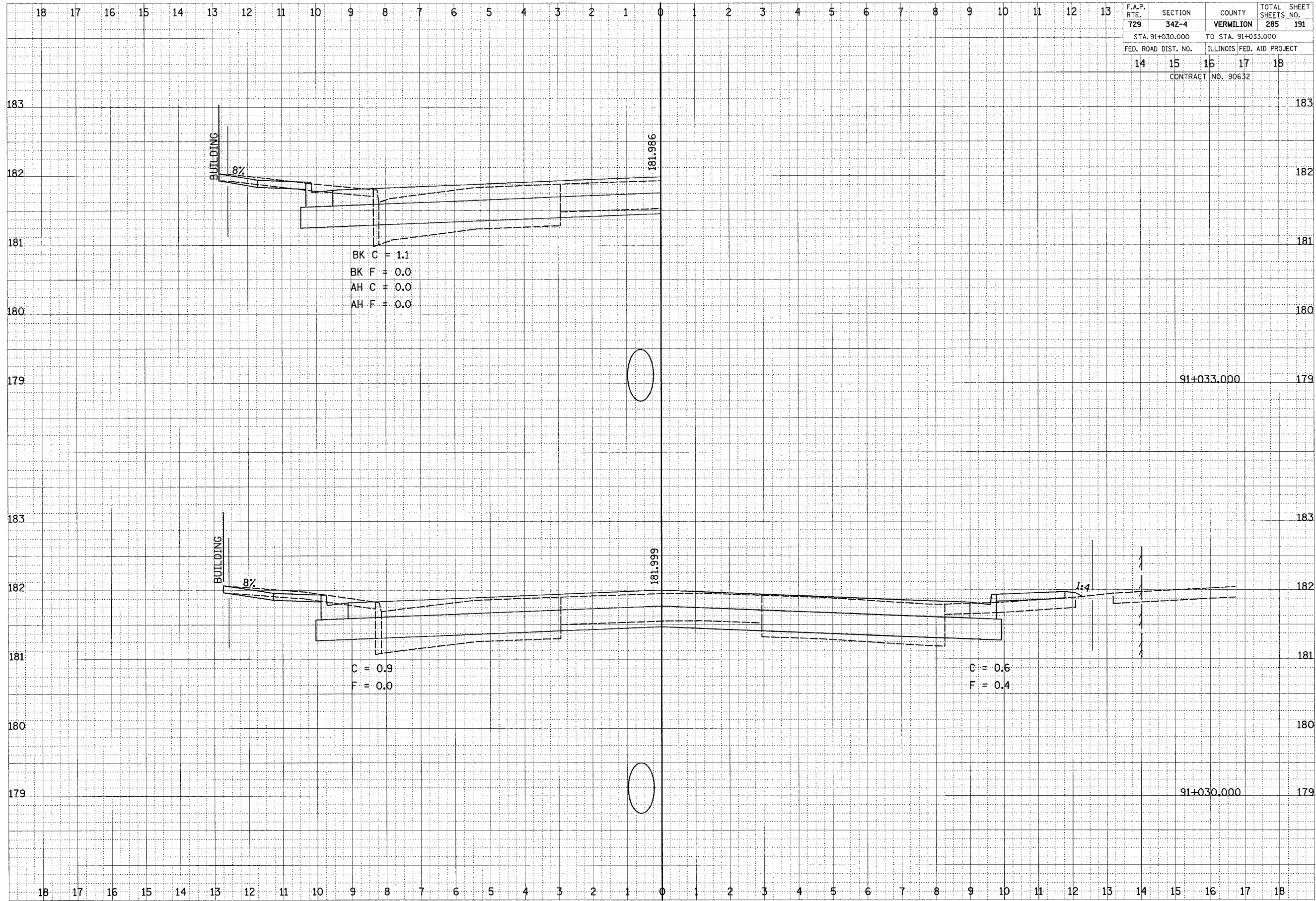


CROSS SECTIONS, FAP 729 (US 136)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	191
STA. 91+030.000		TO STA. 91+033.000		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
14	15	16	17	18
CONTRACT NO. 90632				

FINAL	DATE
SURVEY	BY
NOTE BOOK	
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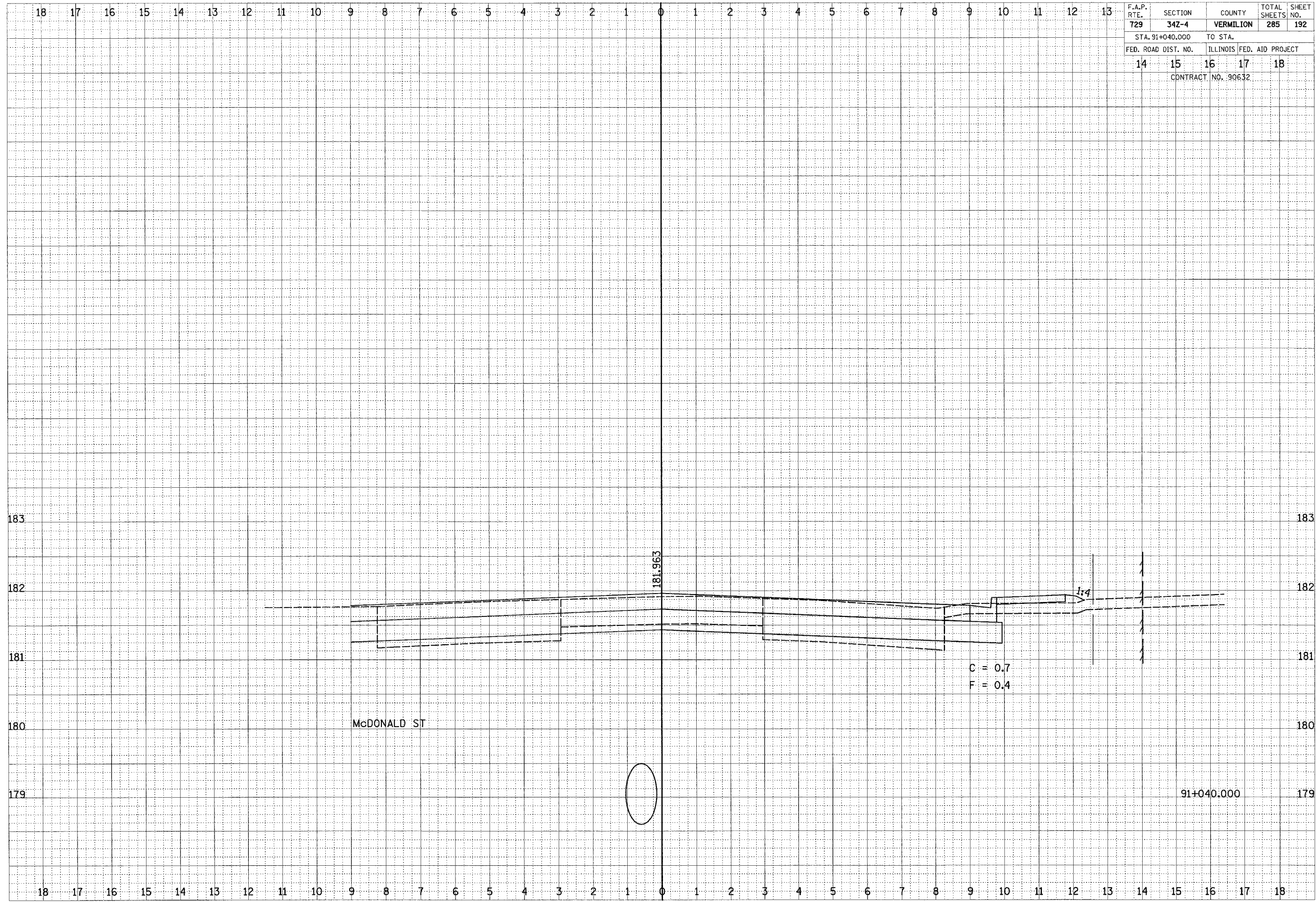
ORIGINAL	DATE
SURVEY	BY
NOTE BOOK	
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	AREAS CHECKED



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	192
STA. 91+040.000		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
14	15	16	17	18
CONTRACT NO. 90632				

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

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



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	193
STA. 91+045.020 TO STA. 91+050.000				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
14	15	16	17	18
CONTRACT NO. 90632				

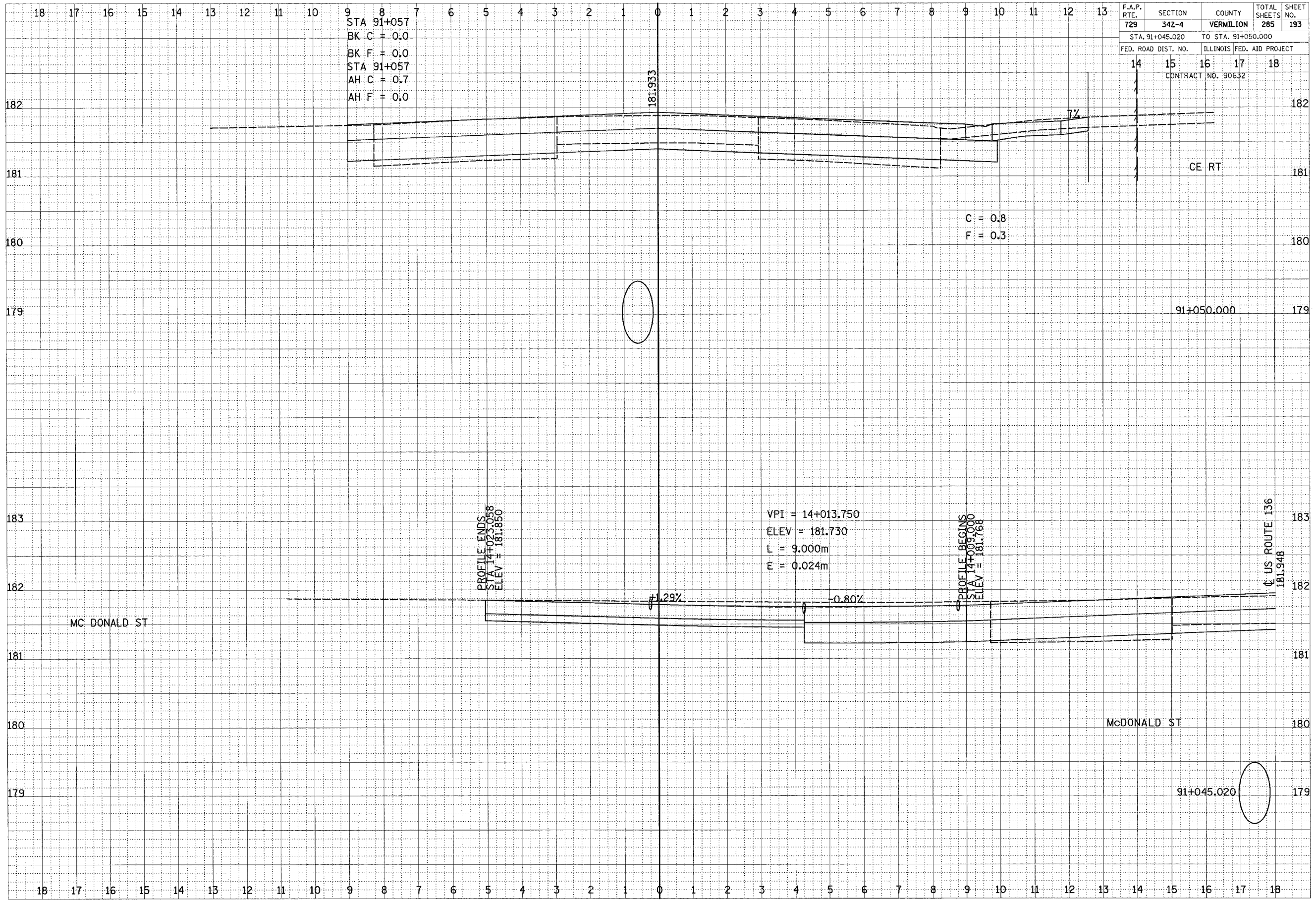
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 BK C = 0.0
 BK F = 0.0
 STA 91+057
 AH C = 0.7
 AH F = 0.0

DATE	BY
DATE	BY
DATE	BY
DATE	BY

SURVEYED
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 RECALCULATE
 NOTE BOOK
 AREAS CHECKED
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DATE	BY
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DATE	BY

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 RECALCULATE
 NOTE BOOK
 AREAS CHECKED
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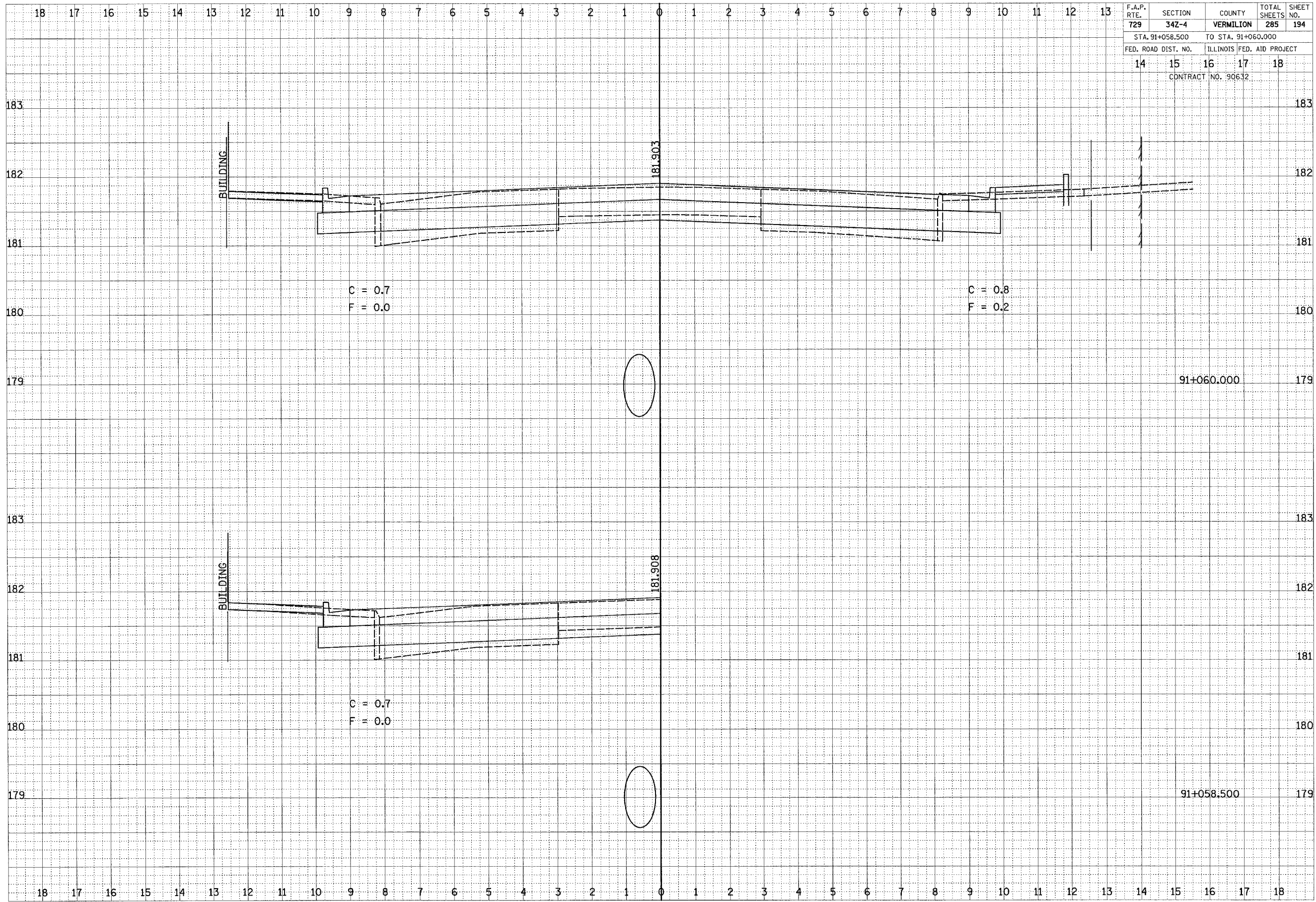


CROSS SECTIONS, FAP 729 (US 136)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	194
STA. 91+058.500		TO STA. 91+060.000		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
14	15	16	17	18
CONTRACT NO. 90632				

DATE	BY

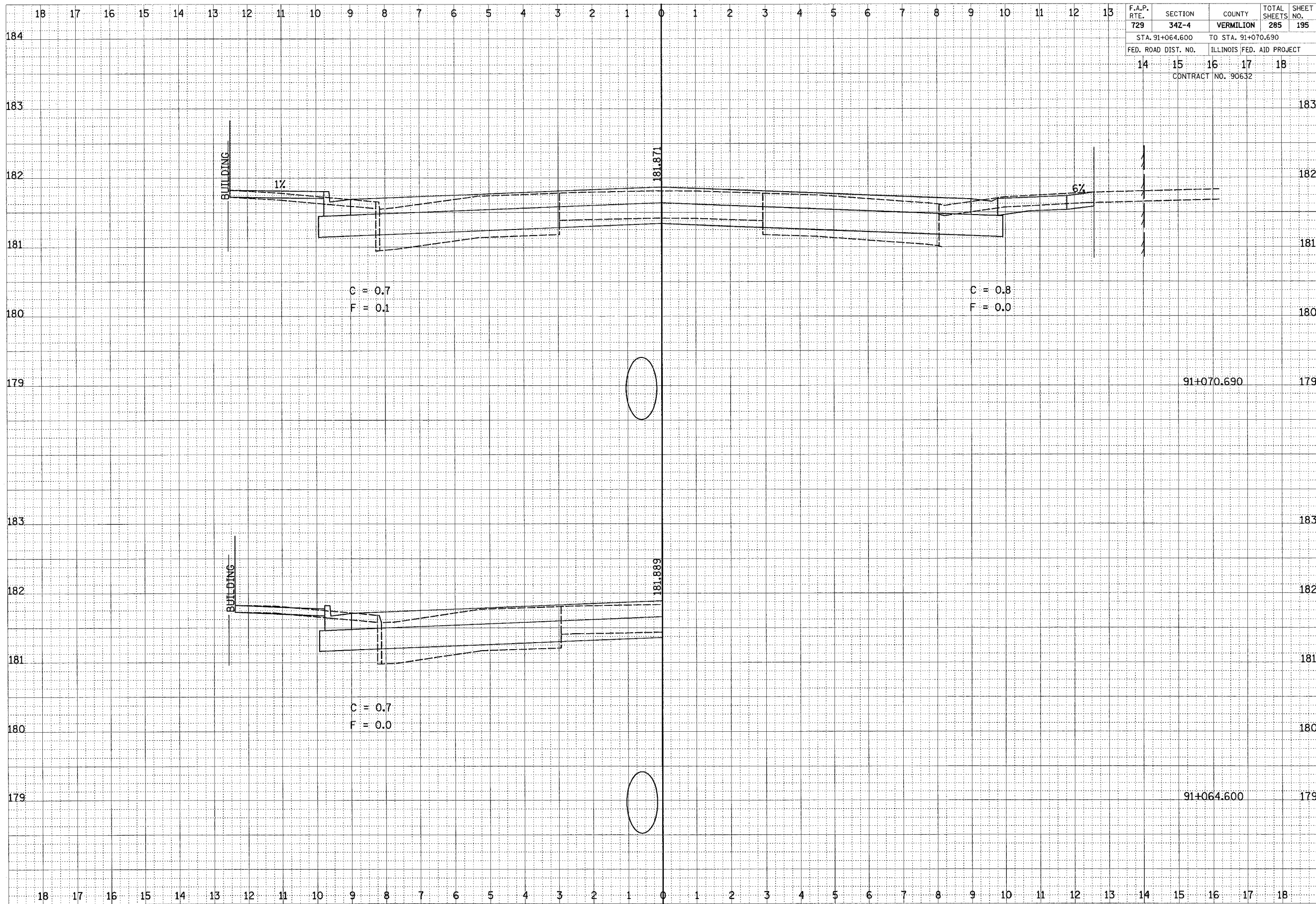
DATE	BY



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	195
STA. 91+064.600		TO STA. 91+070.690		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
14	15	16	17	18
CONTRACT NO. 90632				

FINISH SURVEY	DATE
SURVEY	BY
NOTED	
REMARKS	
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ORIGINAL SURVEY	DATE
SURVEY	BY
NOTED	
REMARKS	
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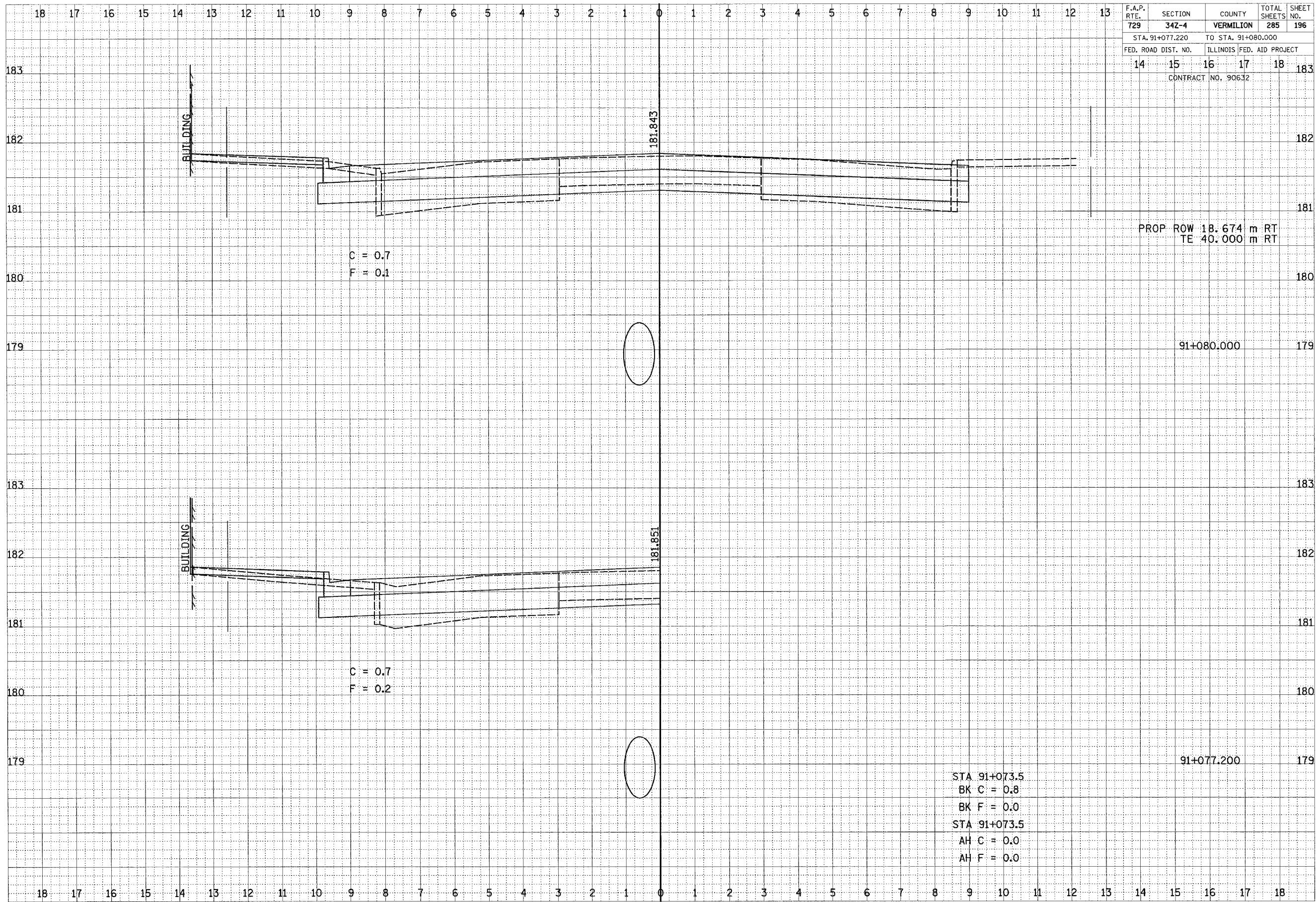
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	196
STA. 91+077.220 TO STA. 91+080.000				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
14	15	16	17	18
CONTRACT NO. 90632				

DATE	BY
DATE	BY
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ORIGINAL SURVEY
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 NOTE BOOK TEMPLATE
 AREAS CHECKED

DATE	BY
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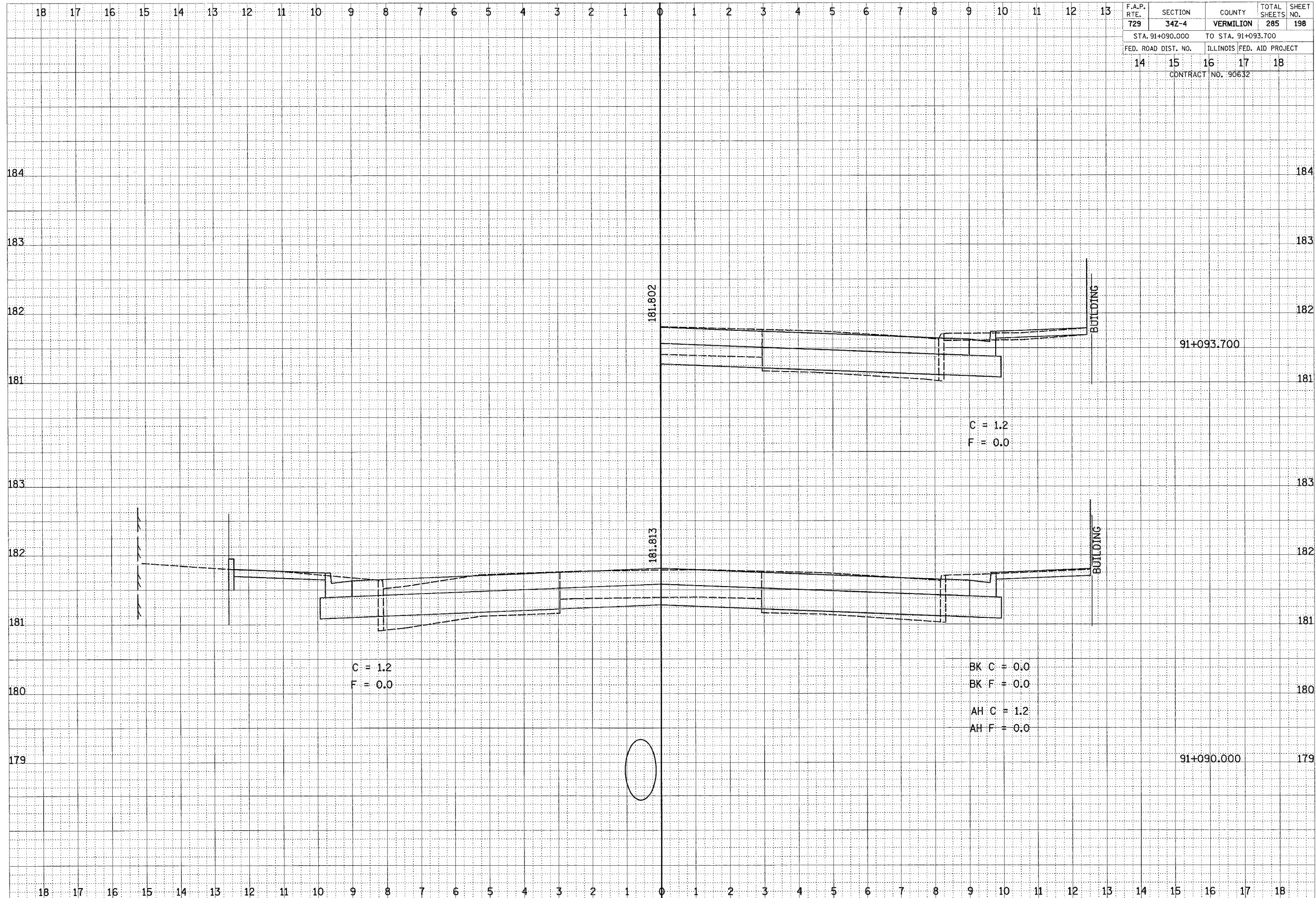
ORIGINAL SURVEY
 SURVEY PLOTTED
 NOTE BOOK TEMPLATE
 AREAS CHECKED



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	198
STA. 91+090.000		TO STA. 91+093.700		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
14	15	16	17	18
CONTRACT NO. 90632				

FINAL SURVEY	DATE
BY	
REVISIONS	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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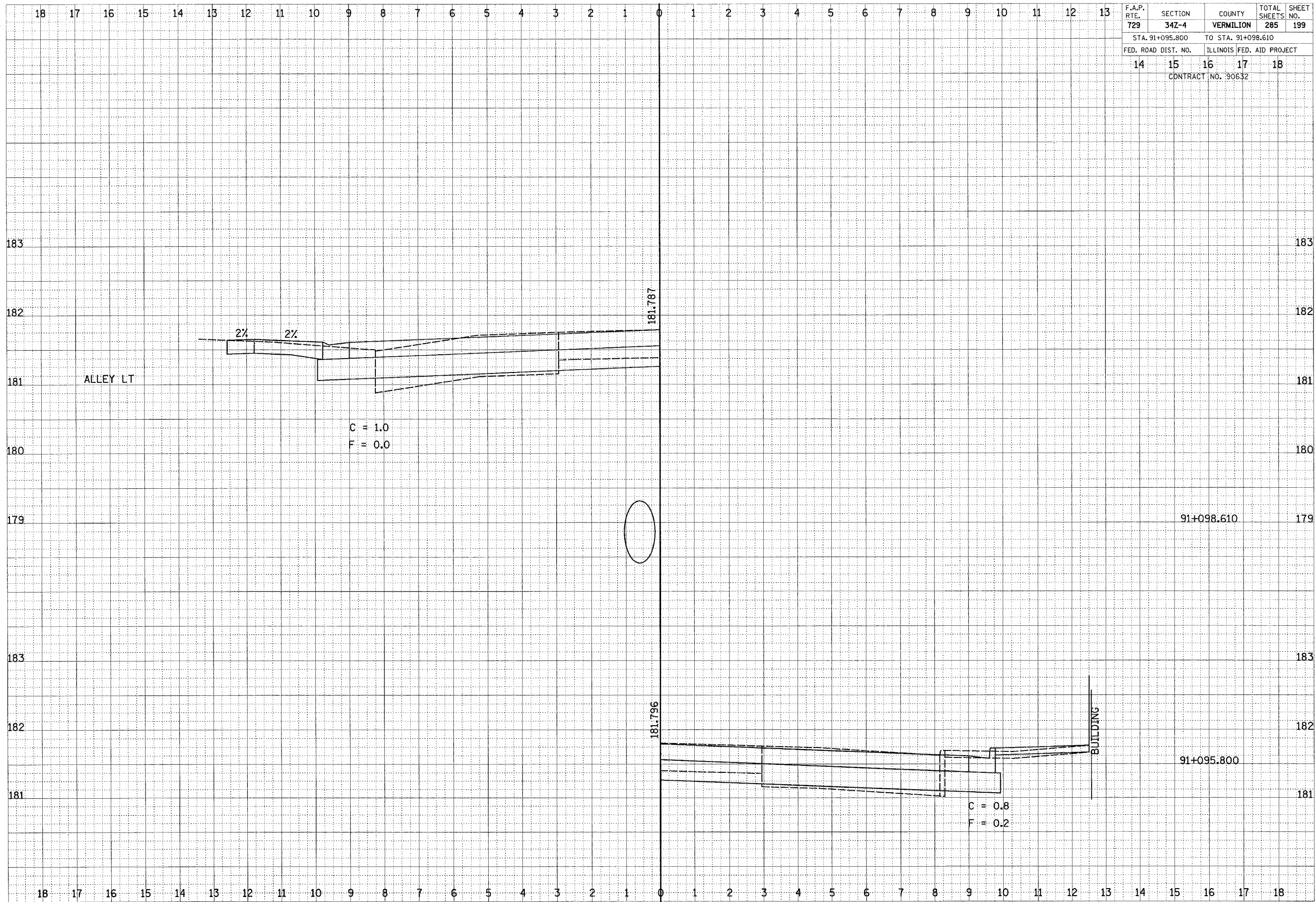


CROSS SECTIONS, FAP 729 (US 136)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	199
STA. 91+095.800		TO STA. 91+098.610		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
14		15 16 17 18		
CONTRACT NO. 90632				

FINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
729	34Z-4	VERMILION	285	200
STA. 91+100.000		TO STA. 91+105.800		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
14	15	16	17	18
CONTRACT NO. 90632				

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

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

