

067

07-12-2019 LETTING ITEM 067

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

| P.A.P. RTE | SECTION  | COUNTY | TOTAL SHEETS       | SHEET NO. |
|------------|----------|--------|--------------------|-----------|
| 869        | 1-1)RS-4 | PERRY  | 14                 | 1         |
| ILLINOIS   |          |        | CONTRACT NO. 78691 |           |

D-99-082-18



FOR INDEX OF SHEETS, SEE SHEET NO. 3

FOR SUMMARY OF QUANTITIES, SEE SHEETS NO. 5-6

# PROPOSED HIGHWAY PLANS

FAP 869 (IL 14)  
SECTION (1-1)RS-4  
PROJECT STP-D5NP(319)  
HMA RESURFACING (SMART)  
PERRY COUNTY

C-99-119-18

TRAFFIC DATA - (2017 ADT)  
IL 14 - 3000 WITH 15.5% TRUCKS

TOWNSHIPS  
DUQUOIN NO. 10 PRECINCT  
DUQUOIN NO. 12 PRECINCT

POSTED SPEED  
55 MPH

DESIGN DESIGNATION  
3090(20) MINOR ARTERIAL 1.35 (FD-20)

BEGIN PROJECT IL 14  
STATION 84 + 50

END PROJECT IL 14  
STATION 179 + 31.94



N  
T: 6S

R: 1W

GROSS LENGTH = 9,482 FT. = 1.796 MILE  
NET LENGTH = 9,482 FT. = 1.796 MILE

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

PROJECT ENGINEER: SUSAN POE  
PROJECT MANAGER: NATHAN TAYLOR

CONTRACT NO. 78691

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED May 31 2019  
Kirk Roberts  
REGIONAL ENGINEER

June 14 2019  
[Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

June 14 2019  
[Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

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Reviewed By: Charles Stein  
DISTRICT STUDIES & PLANS ENGINEER

Examined By: \_\_\_\_\_  
DISTRICT LAND ACQUISITION ENGINEER

Examined By: Carrie  
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: Karl  
DISTRICT OPERATIONS ENGINEER

Examined By: Keith Roberts  
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: Dan  
DISTRICT CONSTRUCTION ENGINEER

Examined By: Tom  
DISTRICT MATERIALS ENGINEER

|                               |                  |                 |
|-------------------------------|------------------|-----------------|
| USER NAME = taylornd          | DESIGNED - _____ | REVISED - _____ |
| DRAWN - _____                 | REVISED - _____  |                 |
| PLOT SCALE = 100 0000 ' / in. | CHECKED - _____  | REVISED - _____ |
| PLOT DATE = 5/31/2019         | DATE - _____     | REVISED - _____ |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNATURE SHEET**

SCALE: \_\_\_\_\_ SHEET 2 OF 16 SHEETS STA. 84+50 TO STA. 179+31.94

| F.A.P. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO.          |
|---------------------------|-----------|--------|--------------|--------------------|
| 869                       | (1-1)R5-4 | PERRY  | 14           | 2                  |
|                           |           |        |              | CONTRACT NO. 78691 |
| ILLINOIS FED. AID PROJECT |           |        |              |                    |



# MIX DESIGN - SURFACE COURSE

|   |  |
|---|--|
| LOCATIONS:                                  | HOT-MIX ASPHALT SURFACE COURSE             |
| MIXTURE USE(S):                             | HOT-MIX ASPHALT SURFACE COURSE, MIX C, N70 |
| AB/PG:                                      | PG64-22                                    |
| ABR% (MAX)                                  | SEE SPECIAL PROVISION                      |
| DESIGN AIR VOIDS:                           | 4.0%, 70 GYRATION DESIGN                   |
| MIXTURE COMPOSITION:<br>(GRADATION MIXTURE) | IL-9.5mm                                   |
| FRICTION AGGREGATE:                         | C SURFACE                                  |
| MIXTURE WEIGHT:                             | 112 LBS/SQ YD/IN                           |
| QUALITY MANAGEMENT PROGRAM:                 | QCP  |
| SUBLOT SIZE:                                | TBD  |

# MIX DESIGN - SHOULDERS

|   |  |
|---|--|
| LOCATIONS:                                  | HOT-MIX ASPHALT SHOULDERS                    |
| MIXTURE USE(S):                             | HOT-MIX ASPHALT SURFACE COURSE, N30, IL-9.5L |
| AB/PG:                                      | PG64-22                                      |
| ABR% (MAX)                                  | SEE SPECIAL PROVISION                        |
| DESIGN AIR VOIDS:                           | 4.0%, 30 GYRATION DESIGN                     |
| MIXTURE COMPOSITION:<br>(GRADATION MIXTURE) | IL-9.5L                                      |
| FRICTION AGGREGATE:                         | NONE   |
| MIXTURE WEIGHT:                             | 112 LBS/SQ YD/IN                             |
| QUALITY MANAGEMENT PROGRAM:                 | QC/QA  |
| SUBLOT SIZE:                                | NA   |

# MTD CROSSING RESTRICTIONS TABLE

| SN & CENTERLINE STATION<br>ROUTE (FAP 869 IL 14) | STRUCTURE SIZE  | EXISTING FILL<br>HEIGHT OVER<br>BOX CULVERT | THICKNESS OF<br>EXISTING PAVEMENT<br>OVER BOX CULVERT | MTD CROSSING<br>RESTRICTIONS |
|--|-----------------|---|---|------------------------------|
|  |                 | FOOT  | FOOT  |                              |
| SN 073-7020 (STA. 101+95)                        | 8 FT W X 5 FT H | 3.21  | 1.17  | EMPTIED                      |
| SN 073-7021 (STA. 164+29)                        | 5FT W X 4 FT H  | 2.69  | 1.17  | EMPTIED                      |

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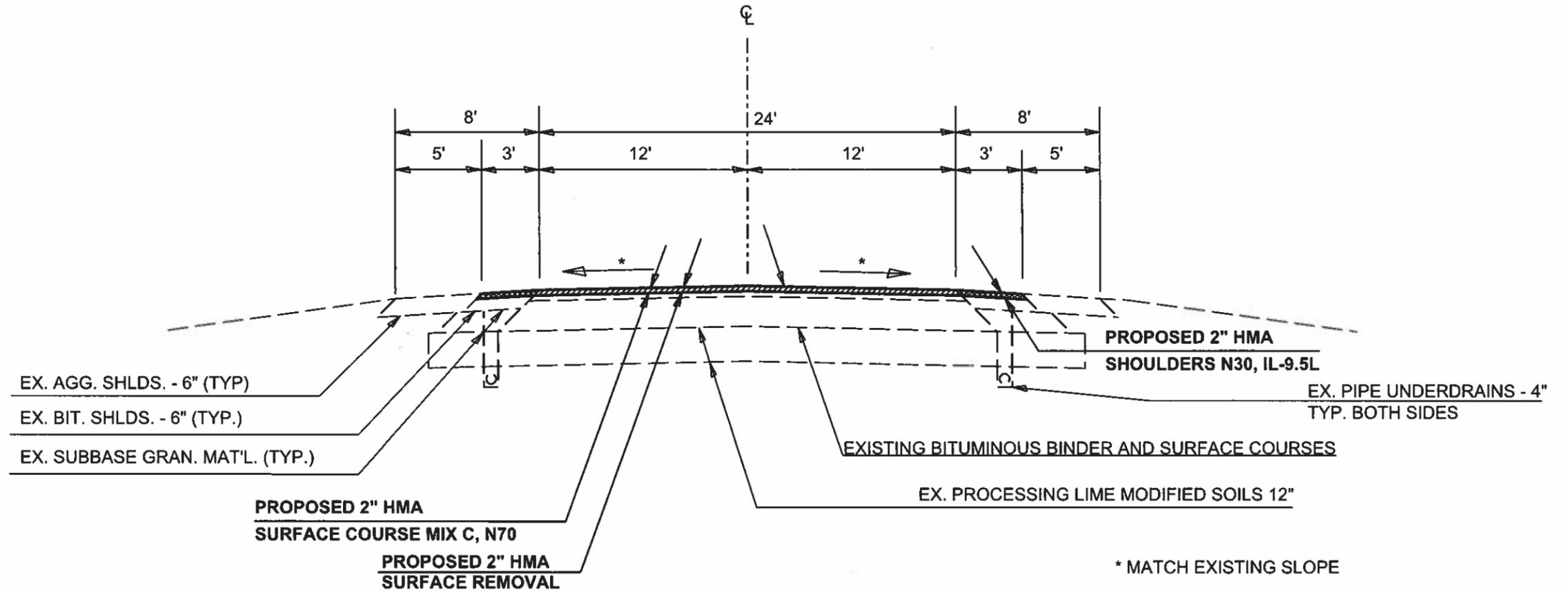
# SHOULDER RUMBLE STRIP SCHEDULE

| IL 14 (Perry County)           |           |        |           | LENGTH | SHOULDER RUMBLE STRIP MARKING       |                                     |
|--------------------------------|-----------|--------|-----------|--------|-------------------------------------|-------------------------------------|
|                                |           |        |           |        | STA. LT. SHOULDER RUMBLE STRIP - 8" | STA. RT. SHOULDER RUMBLE STRIP - 8" |
| LOCATION<br>STATION TO STATION |           |        |           | (FT)   | (FT)                                | (FT)                                |
| STA                            | 84+50.00  | TO STA | 86+87.00  | 237    | 237                                 | 237                                 |
| STA                            | 86+87.00  | TO STA | 88+95.00  | 208    |                                     | 208                                 |
| STA                            | 88+95.00  | TO STA | 116+45.00 | 2,750  | 2,750                               | 2,750                               |
| STA                            | 116+45.00 | TO STA | 117+40.00 | 95     |                                     |                                     |
| STA                            | 117+40.00 | TO STA | 120+47.00 | 307    | 307                                 | 307                                 |
| STA                            | 120+47.00 | TO STA | 121+06.00 | 59     |                                     | 59                                  |
| STA                            | 121+06.00 | TO STA | 123+90.00 | 284    | 284                                 | 284                                 |
| STA                            | 123+90.00 | TO STA | 124+30.00 | 40     |                                     | 40                                  |
| STA                            | 124+30.00 | TO STA | 133+38.00 | 908    | 908                                 | 908                                 |
| STA                            | 133+38.00 | TO STA | 134+07.00 | 69     |                                     | 69                                  |
| STA                            | 134+07.00 | TO STA | 146+44.00 | 1,237  | 1,237                               | 1,237                               |
| STA                            | 146+44.00 | TO STA | 146+79.00 | 35     |                                     |                                     |
| STA                            | 146+79.00 | TO STA | 147+30.00 | 51     |                                     | 51                                  |
| STA                            | 147+30.00 | TO STA | 168+41.00 | 2,111  | 2,111                               | 2,111                               |
| STA                            | 168+41.00 | TO STA | 170+42.00 | 201    |                                     | 201                                 |
| STA                            | 170+42.00 | TO STA | 179+31.94 | 890    | 890                                 | 890                                 |
| <b>SUBTOTAL</b>                |           |        |           |        | <b>8,724</b>                        | <b>9,352</b>                        |
| <b>TOTAL</b>                   |           |        |           |        | <b>18,076</b>                       |                                     |

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|  |  |  |   |                              |   |   |
|--|--|--|---|------------------------------|---|---|
| USER NAME = taylornd<br>PLOT SCALE = 100.0000' / 1" =<br>PLOT DATE = 5/31/2019 | DESIGNED - _____<br>DRAWN - _____<br>CHECKED - _____<br>DATE - _____ | REVISED - _____<br>REVISED - _____<br>REVISED - _____<br>REVISED - _____ | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>RUMBLE STRIP SCHEDULE</b> | F.A.P. RTE: 869<br>SECTION: (1) 1185.4<br>COUNTY: PERRY<br>TOTAL SHEETS: 14<br>SHEET NO.: 9<br>CONTRACT NO. 78691 | SCALE: _____<br>SHEET 8 OF 16 SHEETS<br>STA. 84+50 TO STA. 179+31.94<br>ILLINOIS FED. AID PROJECT |
|--|--|--|---|------------------------------|---|---|

**TYPICAL SECTION**  
F.A.P. 869 IL 14



TO BE USED:  
STA. 84+50 TO STA. 176+22.96  
LONGITUDINAL JOINT SEALANT (Z0033700) - SHALL BE APPLIED UNDER THE SURFACE COURSE AT THE CENTERLINE

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|                            |            |           |
|----------------------------|------------|-----------|
| USER NAME = taylor@id      | DESIGNED - | REVISED - |
| PLOT SCALE = 100.0000 / in | DRAWN -    | REVISED - |
| PLOT DATE = 5/31/2019      | CHECKED -  | REVISED - |
|                            | DATE -     | REVISED - |

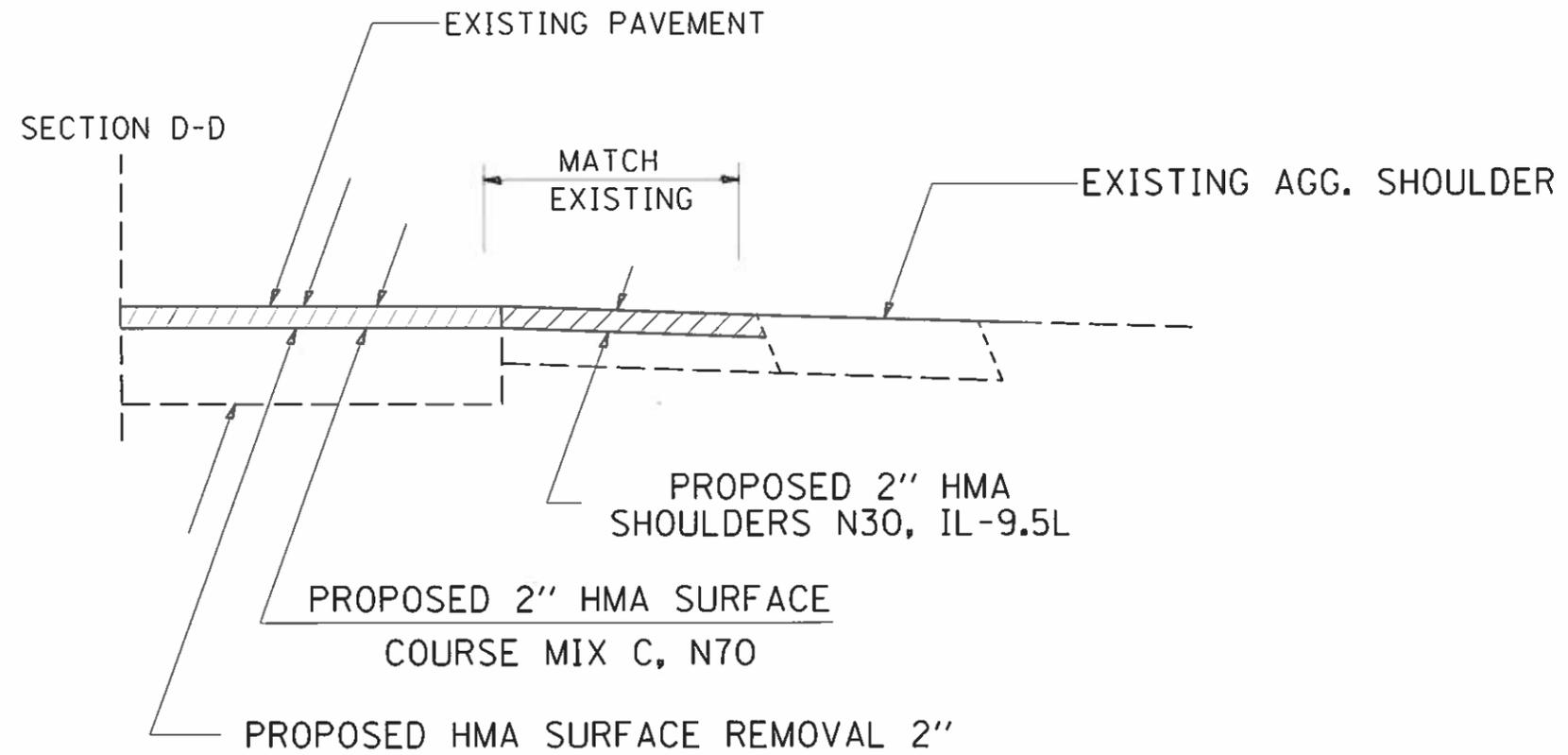
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

|                               |                      |
|-------------------------------|----------------------|
| <b>TYPICAL SECTION</b>        |                      |
| <b>84 + 50 TO 176 + 22.96</b> |                      |
| SCALE N.T.S.                  | SHEET 9 OF 16 SHEETS |
| STA. 84+50                    | TO STA. 176+22.96    |

|                    |                   |              |                           |              |
|--------------------|-------------------|--------------|---------------------------|--------------|
| F.A.P. RTE. 869    | SECTION (1-1)RS-4 | COUNTY PERRY | TOTAL SHEETS 14           | SHEET NO. 10 |
| CONTRACT NO. 78691 |                   |              | ILLINOIS FED. AID PROJECT |              |



# PAVED SHOULDER RESURFACING



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|------------------------------|------------|-----------|
| USER NAME = taylornh         | DESIGNED - | REVISED - |
| PLOT SCALE = 100.0000' / in. | DRAWN -    | REVISED - |
| PLOT DATE = 5/31/2019        | CHECKED -  | REVISED - |
|                              | DATE -     | REVISED - |

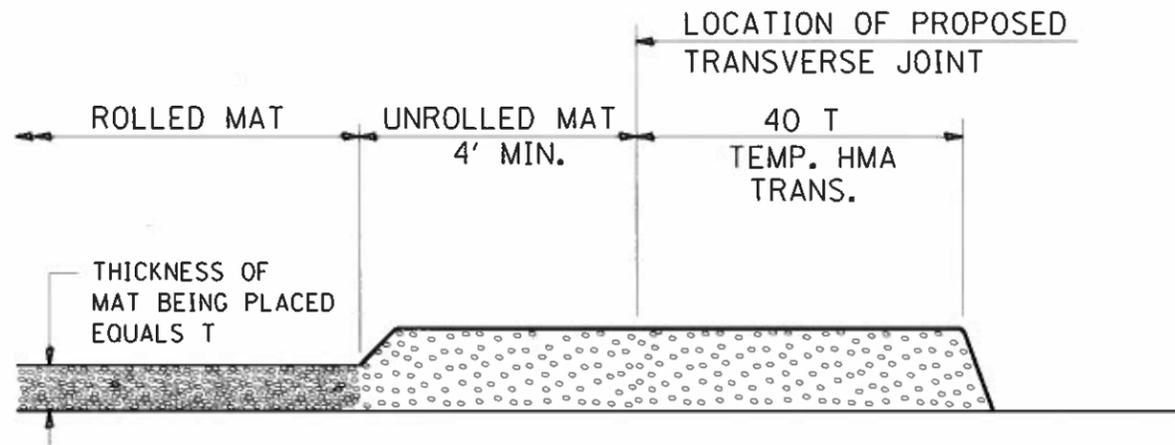
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT DETAILS**

SCALE: N.T.S. SHEET 14 OF 16 SHEETS STA. 84+50 TO STA. 179+31.94

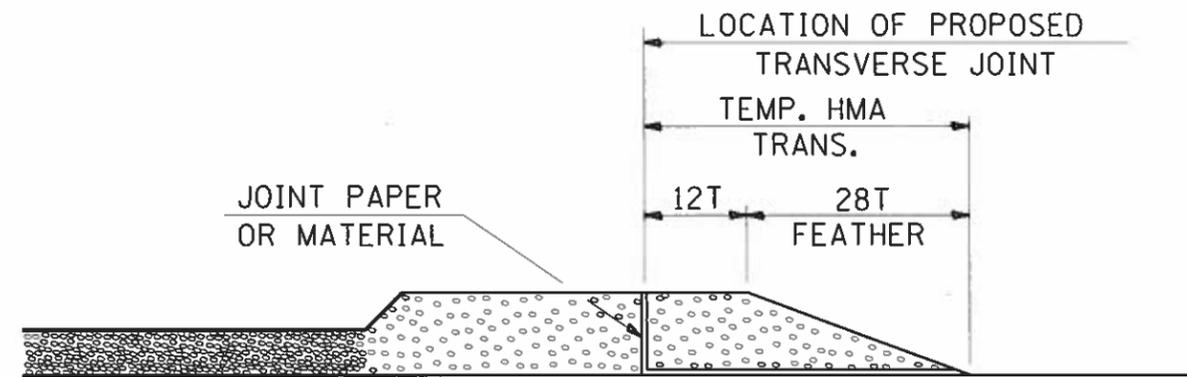
| F.A.P. RTE.        | SECTION   | COUNTY | TOTAL SHEETS              | SHEET NO. |
|--------------------|-----------|--------|---------------------------|-----------|
| 869                | (1) JRS-4 | PERRY  | 14                        | 12        |
| CONTRACT NO. 78691 |           |        | ILLINOIS FED. AID PROJECT |           |

# TEMPORARY HOT-MIX ASPHALT TRANSITIONS



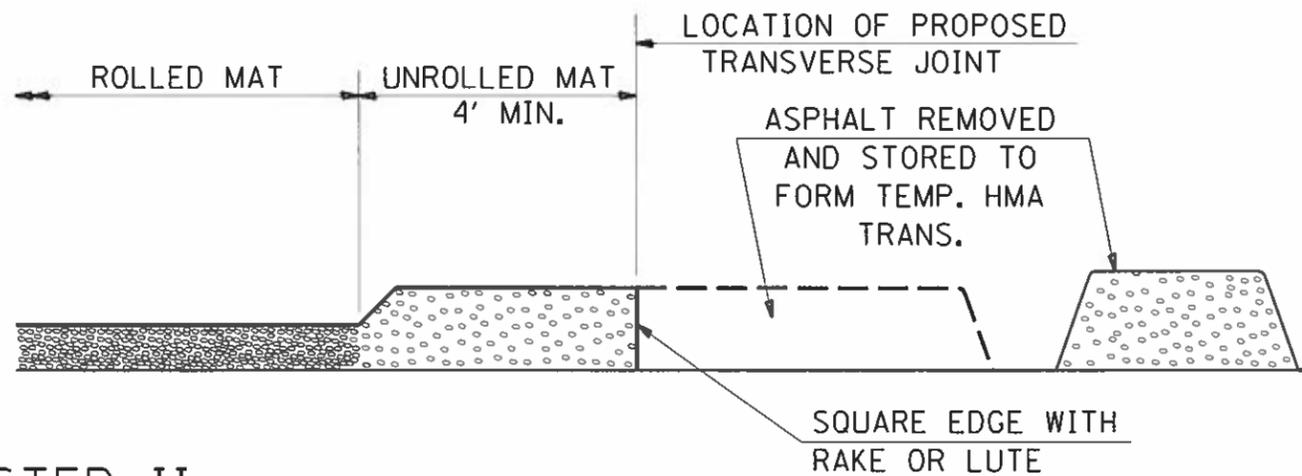
## STEP I

1. PLACE HOT-MIX ASPHALT MAT, LENGTH 40 TIMES THE THICKNESS OF THE MAT BEING PLACED PAST THE PROPOSED TRANSVERSE JOINT LOCATION USING NORMAL OPERATING PROCEDURES.
2. EXTREME CARE SHOULD BE TAKEN TO MAINTAIN ENOUGH MATERIAL IN FRONT OF THE SCREED TO MAINTAIN REQUIRED PAVING DEPTH.



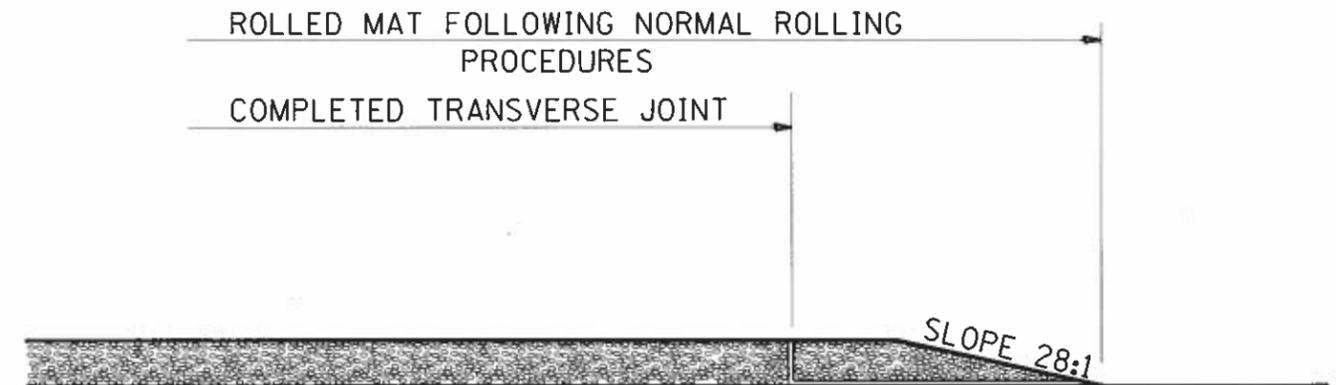
## STEP III

1. JOINT PAPER OR OTHER PRESELECTED JOINT MATERIAL IS THEN PLACED IN THE CLEARED AREA AND THE EXCESS ASPHALT USED TO HAND FORM A TRANSITION TO THE DIMENSIONS SHOWN ABOVE.
2. NOTE THAT IN CONSTRUCTING THE TRANSITION, THE MAT DEPTH IS CONTINUED AS PART OF THE TRANSITION BEFORE FORMING THE FEATHER.



## STEP II

1. MOVE THE PAVER OUT OF THE WAY AND REMOVE THE ASPHALT FROM THE AREA OF THE PROPOSED TEMPORARY HOT-MIX ASPHALT TRANSITION.
2. SQUARE UP THE END OF THE MAT WITH A RAKE OR LUTE.
3. NOTE THAT THE MAT WITHIN 4' OF THE END OF JOINT IS NOT TO BE ROLLED AT THIS TIME.



## STEP IV

1. COMPLETE TEMPORARY TRANSITION BY ROLLING.
2. TO RESUME PAVING, AT THE JOINT, REMOVE TEMPORARY TRANSITION AND DISPOSE OF THE MATERIAL ACCORDING TO ART. 202.03 OF THE STD. SPECS. (COST INCLUDED IN THE CONTRACT).
3. CONSTRUCTING THE TEMPORARY TRANSITIONS WILL NOT BE PAID FOR SEPARATELY IN ACCORDANCE WITH ARTICLE 406.14 OF THE STANDARD SPECIFICATIONS.

### REVISIONS

|         |          |
|---------|----------|
| REDRAWN | 2-15-89  |
| REVISED | 8-16-94  |
| REVISED | 01-09-07 |
| RESIZED | 05-8-08  |
| REVISED | 05-16-13 |

STD. 9-26

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|----------------------------|------------|-----------|
| USER NAME = Taylor         | DESIGNED - | REVISED - |
| PLOT SCALE = 100.0000 / in | DRAWN -    | REVISED - |
| PLOT DATE = 5/31/2019      | CHECKED -  | REVISED - |
|                            | DATE -     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|                                       |                       |
|---------------------------------------|-----------------------|
| TEMPORARY HOT-MIX ASPHALT TRANSITIONS |                       |
| SCALE: _____                          | SHEET 15 OF 16 SHEETS |
| STA. 84+50                            | TO STA. 179+31.94     |

|                    |                   |              |                           |              |
|--------------------|-------------------|--------------|---------------------------|--------------|
| F.A.P. RTE. 869    | SECTION (I-1)BS-4 | COUNTY PERRY | TOTAL SHEETS 14           | SHEET NO. 13 |
| CONTRACT NO. 78691 |                   |              | ILLINOIS FED. AID PROJECT |              |

