#### UTILITIES

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THE CONTRACTOR SHALL USE THE FOLLOWING PROCEDURE AT EACH LOCATION WHERE WORK IS PERFORMED, IN ACCORDANCE WITH SECTIONS 105.07 AND 107.16 IN THE CONSTRUCTION AND MATERIALS SPECIFICATIONS.

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE OHIO UTILITIES PROTECTION SERVICE (OUPS), THE OHIO & GAS PROCEDURES UNDERGROUND PROTECTION SERVICE (OGPUPS), THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 4 HEAD-QUARTERS AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION IN ALL AREAS.

OUPS 1-800-362-2764 (CONTACT LIMITED BASIS PARTICIPANTS DIRECTLY) OGPUPS 1-800-925-0988 ODOT 330-786-2267 MICHELLE CHANEY ODOT ITS - EMAIL: CEN.ITS.LAB@DOT.OHIO.GOV TRAFFIC MONITORING SECTION ODOT, 1980 W. BROAD ST.

> COLUMBUS, OH 43223 DAN DIDDLE 614-560-9541

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE NOT SHOWN ON THE PLANS, BUT CAN BE OBTAINED FROM THE OWNERS OF THE UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES.

#### WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERA-TION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

#### PAVEMENT MARKING LANE WIDTHS

THE NORMAL LANE WIDTH FOR THE PAVEMENT MARKINGS ON THIS PROJECT SHALL BE AS FOLLOWS: ROUTE S.L.M. TO S.L.M. LANE WIDTH 19.02 28.47

# PAVEMENT MARKING DETAILS

THE PAVEMENT MARKING DETAIL SHEETS WILL BE SUPPLIED TO THE CONTRACTOR AT THE PRE-CONSTUCTION MEETING.

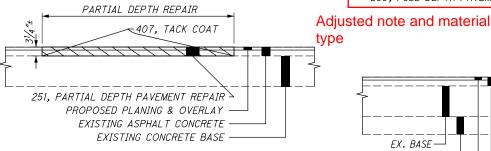
## PROFILE AND ALIGNMENT

PLACE THE PROPOSED PAVEMENT TO FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. PLACE THE PROPOSED ASPHALT CONCRETE OVERLAY AS SHOWN ON THE TYPICAL SECTIONS.

#### ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (441)

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THE ITEM SHALL CONSIST OF REPAIRING EXISTING LOCATIONS EXHIBITING SURFACE DETERIORATION AND PLACING ITEM 441 ASPHALT CONCRETE, TYPE 2. THE ASPHALT CONCRETE SHALL BE COMPACTED WITH A TYPE I PNEUMATIC TIRE ROLLER AND A STEEL WHEEL ROLLER AS PER 401.13. IT IS NOT THE INTENT TO REPAIR EVERY DETERIORATED AREA WITHIN THE PROJECT. PAVEMENT REPAIRS WILL BE MARKED IN THE FIELD BY THE PROJECT ENGINEER ACCORDING TO CMS 251.02. MINIMUM WIDTH IS 2'. UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THIS ITEM SHALL BE PERFORMED BEFORE THE MAINLINE PAVEMENT PLANING COMMENCES. PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF SQUARE YARDS OF PAVEMENT REPAIR. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

251, PARTIAL DEPTH PAVEMENT REPAIR (441), 15,000 SQ. YD.



#### ITEM 618 - RUMBLE STRIPS, (ASPHALT CONCRETE)

FOR USE ALONG SR-11 WITHIN THE PROJECT LIMITS, FROM SLM 19.02 TO SLM 28.47. OFFSET "A" AND "B" SHALL FOLLOW THE OFFSET DIMENSION TABLE AS SHOWN ON STANDARD CONSTRUCTION DRAWING B.P-9.1 FOR THIS ITEM OF WORK.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY: ITEM 618. RUMBLE STRIPS (ASPHALT CONCRETE) 37.8 MILES

#### ITEM 203 - EXCAVATION (FOR PAVEMENT REPAIR)

THIS ITEM OF WORK SHALL CONSIST OF REMOVING AND DISPOSING OF ALL UNSUITABLE MATERIAL BY EXCAVATING THE EXISTING SUBGRADE AND SUBBASE TO AN AVERAGE DEPTH OF 6 INCHES OR AS DIRECTED BY THE ENGINEER. EXACT LIMITS OF REMOVAL SHALL BE DETERMINED BY THE ENGINEER. ALL EQUIPMENT, LABOR, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203 EXCAVATION (FOR PAVEMENT REPAIR). THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

203, EXCAVATION (FOR PAVEMENT REPAIR), 833 CU YD

#### ITEM 255 - FULL DEPTH PAVEMENT REMOVAL AND REPLACEMENT, CLASS QC1

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THIS ITEM SHALL CONSIST OF CUTTING AND REMOVING DETERIORATED PAVEMENT FULL DEPTH AND PLACING 12"± FULL DEPTH PAVEMENT REMOVAL AND REPLACEMENT, CLASS QC1. UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THIS ITEM SHALL BE PERFORMED BEFORE THE MAINLINE PAVEMENT PLANING. ALSO, THIS ITEM SHALL BE COMPLETED WITHIN 3 DAYS OF THE MAINLINE PAVEMENT PLANING. IT IS NOT THE INTENT TO REPAIR EVERY DETERIORATED AREA WITHIN THE PROJECT. THE ENGINEER SHALL DETERMINE WHICH AREAS ARE TO BE REPAIRED. PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF SQUARE YARDS OF PAVEMENT REMOVED AND REPLACED TO THE LIMITS DESIGNATED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

255, FULL DEPTH PAVEMENT REMOVAL AND REPLACEMENT, CLASS QC1, 5,000 SY 255, FULL DEPTH PAVEMENT SAWING, 26,250 FT

# PAVEMENT REPAIR 407, TACK COAT 203, EXCAVATION (FOR PVMT EX. BASE REPAIR) (6" AVG.) EX. SUBBASE — └ 304, AGGREGATE BASE (FOR PR. PLANING & OVERLAY PVMT REPAIR) (6" AVG.) EX. ASPHALT CONCRETE— - 255, FULL DEPTH REPAIR (121/4 "±)

#### ITEM 304 - AGGREGATE BASE (FOR PAVEMENT REPAIR)

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN PROVIDED AND SHALL BE USED AS DIRECTED BY THE ENGINEER TO BACKFILL AREAS WHICH WERE EXCAVATED UNDER ITEM 203 EXCAVATION (FOR PAVEMENT REPAIR). THE FOLLOWING ESTIMATEDQUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

304, AGGREGATE BASE (FOR PAVEMENT REPAIR), 833 CU YD

## ITEM 408 - PRIME COAT, AS PER PLAN

APPLY "MC-70" AT A RATE OF 0.4 GALLONS PER SQUARE YARD, OR AS DETERMINED BY THE ENGINEER, TO THE COMPLETED COMPACTED AGGREGATE SHOULDER.

### ITEM 617 - COMPACTED AGGREGATE, AS PER PLAN

IN LOW SHOULDER AREAS EXCEEDING 1", AND ADJACENT TO THE SAFETY EDGE. OR AS DIRECTED BY THE ENGINEER. RECYCLED ASPHALT PAVEMENT (RAP) SHALL BE USED IN AREAS ADJACENT TO THE PAVED BERM. THE RAP SHALL HAVE A MINIMUM PG CONTENT OF 4.5% AND MEET THE FOLLOWING GRADATION. ONCE THE STOCKPILE MEETS THE GRADATION. THE PG CONTENT OF THE RAP SHALL BE DETERMINED PER 441.03. THE RAP ANALYSIS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL 2 WEEKS PRIOR TO USE, METHOD OF MEASUREMENT SHALL BE AS PER 617.06. PLACEMENT AND COMPACTION SHALL MEET THE REQUIREMENTS OF ITEM 617. ALL MATERIALS, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 617 COMPACTED AGGREGATE, AS PER PLAN.

MODIFIED GRADATION SHALL APPLY:

| SIEVE   | TOTAL PERCENT PASSING |
|---------|-----------------------|
| 1-1/2"  | 100                   |
| 3/4 "   | 50-100                |
| NO. 4   | <i>35-70</i>          |
| NO. 30  | 9-33                  |
| NO. 200 | 0-13                  |
|         |                       |

### ITEM 442 - ASPHALT CONCRETE SURFACE COURSE. 12.5MM. TYPE A (446), AS PER PLAN (PG70-22M)

703.05 DO NOT USE COARSE AGGREGATE FROM A SOURCE DESIGNATED "SR" OR "SRH" ACCORDING TO THE OFFICE OF MATERIALS MANAGEMENT (OMM) IN ANY JOB MIX FORMULA (JMF) FOR THIS ITEM.

#### ASPHALT GRINDINGS

THE CONTRACTOR SHALL DELIVER A MINIMUM OF 3,000 TONS OF ASPHALT GRINDINGS TO THE BELOW LOCATIONS:

ODOT D4 OUTPOST (GUSTAVUS OUTPOST) 2979 KINSMAN ROAD, NORTH BLOOMFIELD, OHIO 44450 JOE PARTHEMER - 330.786.4988

THIS WORK SHALL BE COORDINATED BETWEEN THE PROJECT ENGINEER, THE CONTRACTOR, AND JOE PARTHEMER. PAYMENT FOR THIS WORK WILL BE INCIDENTAL TO:

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (T=11/2")

|         |                   |        |       |    | SH | HEET NU | JM.       |              |   |              |              | PART.                                            | ITEM       | ITEM           | GRAND        | UNIT | DESCRIPTION                                                                             | SEE<br>SHEET |
|---------|-------------------|--------|-------|----|----|---------|-----------|--------------|---|--------------|--------------|--------------------------------------------------|------------|----------------|--------------|------|-----------------------------------------------------------------------------------------|--------------|
|         |                   | 3      | 4     | 5  |    | 7       | 8         | 9            |   |              |              | 01/NHS/P<br>V                                    | TILM       | EXT            | TOTAL        | ONIT | DESCRIPTION                                                                             | NO.          |
|         |                   |        |       |    |    |         |           |              |   |              |              |                                                  |            |                |              |      | ROADWAY                                                                                 |              |
| -+      | -+                | 833    |       |    |    |         |           |              |   |              |              | 833                                              | 203        | 10000          | 833          | CY   | EXCAVATION                                                                              |              |
|         | +                 |        |       |    |    |         |           |              |   |              |              |                                                  |            | 10000          |              |      |                                                                                         |              |
|         | -                 |        |       |    |    |         |           |              |   |              |              |                                                  |            |                |              |      | EROSION CONTROL                                                                         |              |
|         |                   |        |       |    |    |         |           |              |   |              |              | 3,000                                            | 832        | 30000          | 3,000        | EACH | EROSION CONTROL                                                                         |              |
|         |                   |        |       |    |    |         |           |              |   |              |              |                                                  |            |                |              |      |                                                                                         |              |
|         |                   |        |       |    |    |         |           |              |   |              |              |                                                  |            |                |              |      | PAVEMENT                                                                                |              |
|         |                   | 15,000 |       |    |    |         |           |              |   |              |              | 15,000                                           | 251        | 01000          | 15,000       | SY   | PARTIAL DEPTH PAVEMENT REPAIR (441)                                                     |              |
|         |                   |        |       |    |    | 437,074 |           |              |   |              |              | 437,074                                          | 254        | 01000          | 437,074      | SY   | PAVEMENT PLANING, ASPHALT CONCRETE (T=1 1/2")                                           |              |
|         |                   | 5,000  |       |    |    |         |           |              |   |              |              | 5,000                                            | 255        | 10010          | 5,000        | SY   | FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT CLASS QC1                             |              |
|         |                   | 26,250 |       |    |    |         |           |              |   |              |              | 26,250                                           | 255        | 20000          | 26,250       |      | FULL DEPTH PAVEMENT SAWING                                                              |              |
|         |                   | 833    |       |    |    |         |           |              |   |              |              | 833                                              | 304        | 20000          | 833          | CY   | AGGREGATE BASE changed material                                                         |              |
|         |                   |        |       |    |    |         |           |              |   |              |              |                                                  |            |                |              |      | type                                                                                    |              |
|         |                   |        |       |    |    | 39,337  |           |              |   |              |              | 39,337                                           | 407        | 20000          | 39,337       |      | NON-TRACKING TACK COAT                                                                  |              |
|         |                   |        |       |    |    | 19,691  |           |              |   |              |              | 19,691                                           | 408        | 10001          | 19,691       |      | PRIME COAT, AS PER PLAN                                                                 | 3            |
|         |                   |        |       |    |    | 12,281  |           |              |   |              |              | 12,281                                           | 441        | 00100          | 12,281       |      | ANTI-SEGREGATION EQUIPMENT                                                              |              |
|         |                   |        |       |    |    | 18,212  |           |              |   |              |              | 18,212                                           | 442        | 10001          | 18,212       |      | ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN (PG70-22M) (T=1 1/2 | 3            |
| $\bot$  | $\longrightarrow$ |        |       |    |    | 2,735   |           |              |   |              |              | 2,735                                            | 617        | 10101          | 2,735        | CY   | COMPACTED AGGREGATE, AS PER PLAN                                                        | 3            |
| $\perp$ | $\longrightarrow$ |        |       |    |    |         |           |              |   |              |              |                                                  |            |                |              |      |                                                                                         |              |
| _       |                   |        |       |    |    | 38      |           |              |   |              |              | 38                                               | 618        | 40600          | 38           |      | RUMBLE STRIPS, (ASPHALT CONCRETE)                                                       | 3            |
| _       |                   |        |       |    |    | 26,546  |           |              |   |              |              | 26,546                                           | 875        | 10000          | 26,546       | LB   | LONGITUDINAL JOINT ADHESIVE                                                             |              |
| $\bot$  | $\longrightarrow$ |        |       |    |    |         |           |              |   |              |              |                                                  |            |                |              |      |                                                                                         |              |
| _       | $\longrightarrow$ |        |       |    |    |         | 4 4 4 4 0 | -            |   |              |              |                                                  | 004        | 00400          | 4 4 4 0      | EAGU | TRAFFIC CONTROL                                                                         |              |
| _       | $\longrightarrow$ |        |       |    |    |         | 1,148     | -            |   |              |              | 070                                              | 621        | 00100          | 1,148        |      | RPM                                                                                     |              |
| +       | $\longrightarrow$ |        |       |    |    |         | 870       | 40.0         |   |              |              | 870                                              | 621<br>646 | 54000          | 870<br>40.8  |      | RAISED PAVEMENT MARKER REMOVED  EDGE LINE, 6"                                           |              |
| -       |                   |        |       |    |    |         |           | 40.8<br>18.9 |   |              |              | 40.8<br>18.9                                     | 646        | 10010<br>10110 | 40.8<br>18.9 |      |                                                                                         |              |
| +       |                   |        |       |    |    |         |           | 3,020        |   |              |              | 3,020                                            | 646        | 10110          | 3,020        |      | LANE LINE, 6" CHANNELIZING LINE, 12"                                                    |              |
| +       | -+                |        |       |    |    |         |           | 3,020        |   |              |              | 3,020                                            | 040        | 10310          | 3,020        | 1 1  | CHANNELIZING LINE, 12                                                                   |              |
| +       | -+                |        |       |    |    |         |           | 225          |   |              |              | 225                                              | 646        | 10400          | 225          | FT   | STOP LINE                                                                               |              |
| +       |                   |        |       |    |    |         |           | 8            |   |              |              | 8                                                | 646        | 20320          | 8            |      | WRONG WAY ARROW                                                                         |              |
| -       | -+                |        |       |    |    |         |           | 6,775        |   |              |              | 6,775                                            | 646        | 20504          | 6,775        |      | DOTTED LINE, 6"                                                                         |              |
| -       | -+                |        |       |    |    |         |           | 0,770        |   |              |              | 0,110                                            | 0.10       | 20001          | 3,773        | • •  | 501.125 Ente, 6                                                                         |              |
|         | +                 |        |       |    |    |         |           |              |   |              |              |                                                  |            |                |              |      | STRUCTURE REPAIRS                                                                       |              |
|         | $\overline{}$     |        |       |    |    |         |           |              |   |              |              |                                                  |            |                |              |      | FOR TRU-11-2383 ESTIMATED QUANTITIES                                                    | 12           |
|         |                   |        |       |    |    |         |           |              |   |              |              |                                                  |            |                |              |      | FOR TRU-11-2485 ESTIMATED QUANTITIES                                                    | 12           |
|         |                   |        |       |    |    |         |           |              |   |              |              |                                                  |            |                |              |      | FOR TRU-11-2691 ESTIMATED QUANTITIES                                                    | 12           |
|         |                   |        |       |    |    |         |           |              |   |              |              |                                                  |            |                |              |      | FOR TRU-11-2790 ESTIMATED QUANTITIES                                                    | 12           |
|         |                   |        |       |    |    |         |           |              |   |              |              |                                                  |            |                |              |      | FOR TRU-87-1513 ESTIMATED QUANTITIES                                                    | 12           |
|         |                   |        |       |    |    |         |           |              |   |              |              |                                                  |            |                |              |      |                                                                                         |              |
|         |                   |        |       |    |    |         |           |              |   |              |              |                                                  |            |                |              |      | MAINTENANCE OF TRAFFIC                                                                  |              |
|         |                   |        | 200   |    |    |         |           |              |   |              |              | 200                                              | 614        | 11110          | 200          |      | LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE                                  |              |
|         |                   |        | 32    |    |    |         |           |              |   |              |              | 32                                               | 614        | 12460          | 32           |      | WORK ZONE MARKING SIGN                                                                  |              |
|         |                   |        | 20    |    |    |         |           |              |   |              |              | 20                                               | 614        | 13000          | 20           |      | ASPHALT CONCRETE FOR MAINTAINING TRAFFIC                                                |              |
|         |                   |        |       | 6  |    |         |           |              |   |              |              | 6                                                | 614        | 18601          | 6            |      | PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN                                           | 5            |
|         |                   |        | 18.9  |    |    |         |           |              |   |              |              | 18.9                                             | 614        | 20010          | 18.9         | MILE | WORK ZONE LANE LINE, CLASS I, 6"                                                        |              |
|         |                   |        |       |    |    |         |           | 1            |   |              |              |                                                  |            |                |              |      |                                                                                         |              |
|         |                   |        | 18.9  |    |    |         |           |              |   |              |              | 18.9                                             | 614        | 20560          | 18.9         |      | WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT                                           |              |
| —       |                   |        | 40.8  |    |    |         |           |              |   |              |              | 40.8                                             | 614        | 22360          | 40.8         |      | WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT                                           |              |
| $\bot$  | $\longrightarrow$ |        | 3,020 |    |    |         |           |              |   |              |              | 3,020                                            | 614        | 23010          | 3,020        |      | WORK ZONE CHANNELIZING LINE, CLASS I, 12"                                               |              |
| $\bot$  | $\longrightarrow$ |        | 3,020 |    |    |         |           |              |   |              |              | 3,020                                            | 614        | 23690          | 3,020        |      | WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT                                  |              |
| +       | $\longrightarrow$ |        |       | 24 |    |         |           |              |   |              |              | 24                                               | 808        | 18700          | 24           | SNMT | DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY                                                 | 5            |
| +       | $\longrightarrow$ |        |       |    |    |         |           |              |   |              |              |                                                  |            |                |              |      | INCIDENTAL O                                                                            |              |
| +       | $\longrightarrow$ |        |       |    |    |         |           |              |   |              |              | 1.0                                              | 614        | 11000          | 10           |      | INCIDENTALS                                                                             |              |
|         | $\longrightarrow$ |        |       |    |    |         |           |              |   |              |              | LS<br>6                                          | 614<br>619 | 11000<br>16020 | LS<br>6      |      | MAINTAINING TRAFFIC FIELD OFFICE, TYPE C                                                |              |
|         |                   |        |       |    |    |         |           |              |   |              |              | LS                                               | 623        | 10000          | LS           |      | CONSTRUCTION LAYOUT STAKES AND SURVEYING                                                |              |
| +       |                   |        |       |    |    |         |           |              |   |              |              | LS                                               | 624        | 10000          | LS           |      | MOBILIZATION                                                                            |              |
| $\pm$   |                   |        |       |    |    |         |           |              |   |              |              | LO                                               | 024        | 10000          | LO           |      | IMODICIZATION                                                                           |              |
| $\pm$   |                   |        |       |    |    |         |           |              |   |              |              |                                                  |            |                |              |      |                                                                                         |              |
| +       |                   |        |       |    |    | 1       |           | 1            |   | <del> </del> | 1            |                                                  |            |                |              |      |                                                                                         |              |
| +       |                   |        |       |    |    |         |           | 1            | 1 |              | <del> </del> | <del>                                     </del> |            |                |              |      |                                                                                         |              |
|         |                   |        |       |    |    |         |           |              |   |              |              | - 1                                              |            |                |              |      |                                                                                         |              |
|         |                   |        |       |    |    |         |           |              |   |              |              | 1                                                |            |                |              |      |                                                                                         |              |
|         |                   |        |       |    |    |         |           |              |   |              |              |                                                  |            |                |              |      |                                                                                         |              |
|         |                   |        |       |    |    |         |           |              |   |              |              |                                                  |            |                |              |      |                                                                                         |              |
|         |                   |        |       |    |    |         |           |              |   |              |              |                                                  |            |                |              |      |                                                                                         |              |
|         |                   |        |       |    |    |         |           |              |   |              |              |                                                  |            |                |              |      |                                                                                         |              |
|         |                   |        |       |    |    |         |           |              |   |              |              |                                                  |            |                |              |      |                                                                                         |              |
|         |                   |        |       |    |    |         |           |              |   |              |              |                                                  |            |                |              |      |                                                                                         |              |

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