## STAGE CONSTRUCTION GENERAL NOTES

ALL OF THE TRAFFIC CONTROL DEVICES SHALL BE IN PLACE BEFORE CONSTRUCTION IS STARTED. TEMPORARY TRAFFIC SIGNALS SHALL BE CONSTRUCTED AT THE INTERSECTIONS NOTED IN THE PLANS. TEMPORARY INTERSECTION SIGNALIZATION SHALL BE ADJUSTED TO ACCOMMODATE THE VARIOUS STAGES OF CONSTRUCTION SHOWN. EXISTING STOP AND STOP AHEAD SIGNS ALONG IL. ROUTE 22 SHALL BE RELOCATED TO CONTROL SIDE STREET OR ENTRANCE TRAFFIC FOR THE VARIOUS STAGES OF CONSTRUCTION. THE TRAFFIC CONTROL PLANS SHALL SERVE AS A GUIDE FOR THE SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT.

A MINIMUM OF ONE LANE (11 FEET) IN EACH DIRECTION OF IL. ROUTE 22 SHALL BE KEPT OPEN TO THROUGH TRAFFIC AT ALL TIMES EXCEPT AS NOTED IN PLANS. A MINIMUM OF ONE 11 FEET LANE (STAGES 1 THROUGH 4) IN EACH DIRECTION FOR WAUKEGAN ROAD SHALL BE KEPT OPEN TO THROUGH TRAFFIC AT ALL TIMES. ANY LANE CLOSURES MUST BE APPROVED BY THE ENGINEER.

TAPER LENGTH FOR TRAFFIC CONTROL DEVICES IS DEFINED BY:

$$L = \frac{WxS^2}{60}$$

WHERE EQUATION IS FOR SPEED LIMIT OF 45 MPH OR LESS. THE TERM IS DEFINED AS FOLLOWS:

L = TAPER LENGTH IN FEET
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED IN MPH.

THE FOLLOWING TEMPORARY PAVEMENT MARKINGS SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 703 "WORK ZONE PAVEMENT MARKINGS" OF STANDARD SPECIFICATIONS AT ALL THE FOLLOWING LOCATIONS IN EACH OF THE VARIOUS STAGES OF CONSTRUCTION:

| | |
|---|---|
| 4 IN | WHITE EDGE LINE - EACH EDGE (YELLOW FOR INSIDE EDGE) |
| 4 IN | WHITE SKIP DASH (30 ft SKIP - 10 ft DASH) - BETWEEN LANES |
| 4 IN | DOUBLE YELLOW - MEDIANS AND BETWEEN OPPOSING LANES |
| 6 IN | WHITE LANE LINE - STORAGE AREA OF LEFT - TURN BAY |
| 6 IN | WHITE SKIP DASH (6 ft SKIP - 2 ft DASH) LEFT TURN |
| 12 IN | YELLOW DIAGONALS (50 ft C-C) OR 5 EQUALLY SPACED- MEDIANS AND GORES |
| 24 IN | WHITE STOP BAR - ALL LOCATIONS |
| | WHITE LETTERS AND SYMBOLS - TURN LANES |

TEMPORARY RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED THROUGHOUT THE PROJECT IN ACCORDANCE WITH THE DISTRICT ONE C.A.D.D. DETAIL FOR "RAISED REFLECTIVE PAVEMENT MARKERS" OR AS DIRECTED BY THE ENGINEER.

IT WILL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE 50 INFORMATIONAL SIGNS ON TEMPORARY SUPPORTS FOR DRIVEWAYS. THESE SIGNS SHALL BE WHITE ON GREEN IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES. ALSO, "CAUTION NEW LANES OPEN STOP HERE" SIGNS WILL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE AT THE APPROPRIATE LOCATIONS. THIS WORK WILL BE CONSIDERED INCLUDED IN THE VARIOUS ITEMS FOR TEMPORARY INFORMATION SIGNING.

TEMPORARY PAVEMENT IS REQUIRED TO MAINTAIN THE REQUIRED TRAFFIC LANES ON IL. ROUTE 22 AND THE SIDE STREETS AS SHOWN ON THE STAGING PLANS. TEMPORARY PAVEMENT, AT THE OPTION OF THE CONTRACTOR, SHALL BE CONSTRUCTED OF EITHER 8 Inch PCC BASE COURSE OR 2 Inch HOT- MIX ASPHALT SURFACE COURSE, MIX D, CLASS I, TYPE 2 WITH 8 Inch HOT- MIX ASPHALT BASE COURSE. THE REMOVAL OF TEMPORARY PAVEMENT IS INCLUDED IN THE PAY ITEM TEMPORARY PAVEMENT.

PORTABLE CHANGEABLE MESSAGE SIGN SHALL BE USED AND ITS PLACEMENT SHALL BE DIRECTED BY THE ENGINEER AND IT SHALL BE PAID FOR AS "CHANGEABLE MESSAGE SIGN".

THE CONTRACTOR WILL GIVE AT LEAST 48 HOURS PRIOR NOTICE TO THE VILLAGE ENGINEER (BANNOCKBURN, HIGHLAND PARK), EMERGENCY SERVICES, SCHOOLS AND THE POST OFFICE BEFORE CLOSING THE FOLLOWING SIDE STREETS DURING CONSTRUCTION.

THE FOLLOWING SIDE STREETS WILL BE CLOSED FOR A MAXIMUM TWO WEEKS TO CONSTRUCT THE PERMANENT PAVEMENT. AT ALL OTHER TIMES DURING CONSTRUCTION, THE SIDE STREETS WILL BE OPEN TO ALL RIGHT IN AND RIGHT OUT TRAFFIC. NO PERMANENT LANE CLOSURES WILL BE ALLOWED ON IL. ROUTE 22.

- LAKEWOOD DRIVE AT IL. ROUTE 22
- WILDWOOD LANE AT IL. ROUTE 22
- BENTLEY LANE AT IL. ROUTE 22
- ARCHITECTURE POINT LANE AT IL. ROUTE 22
- MAVOR LANE AT IL. ROUTE 22
- BROADLEY'S COURT/DUNSINANE LANE AT IL. ROUTE 22
- BIRCHWOOD/BANNOCKBURN GREEN SHOPPING CENTER AT IL. ROUTE 22

THE NECESSARY TYPE 3 BARRICADES WILL BE PROVIDED AT THE LOCATIONS SHOWN IN THE PLANS. ADJACENT SIDE STREET CLOSURES WILL BE STAGGERED.

THE CONTRACTOR SHALL PROVIDE 48 HOUR WRITTEN NOTICE TO THE VILLAGE OF DRIVEWAY CLOSURES. APPROXIMATE DIRECTIONAL SIGNAGE SHALL BE PROVIDED SO THAT PATRONS OF THESE AFFECTED BUSINESSES CAN ACCESS THE PROPERTIES BY OTHER ROUTES. THIS ACTIVITY SHALL BE COORDINATED WITH THE RESIDENT ENGINEER FOR THE PROJECT.

ARROW BOARDS SHALL HAVE SOLAR POWER CAPABILITY.

THE CONTRACTOR SHALL PROVIDE ADVANCE NOTICE CONSTRUCTION SIGNING. SIGNS SHALL BE ERECTED ONE WEEK IN ADVANCE OF THE START OF CONSTRUCTION. SIGNS SHALL BE TAKEN DOWN AS SOON AS THEY ARE NO LONGER APPLICABLE ON A CONTINUOUS BASIS AND RE-ERECTED AS APPROPRIATE. EXAMPLES OF SIGNS ARE AS FOLLOWS:

- TEMPORARY LANE CLOSURE EXAMPLE: "PERIODIC LANE CLOSURES BEGIN... EXPECT DELAYS."
- MAJOR PAVING OPERATIONS WHERE LANES WILL BE CLOSED OR RESTRICTED ON A SHORT TERM BASIS. EXAMPLE: "PAVEMENT POUR... EXPECT DELAYS."

SEE DETAIL FOR "TEMPORARY INFORMATION SIGNING" ON PLAN.

THESE SIGNS SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

IL ROUTE 22 - MAINTENANCE OF TRAFFIC

STAGE 1

ONE LANE OF TRAFFIC IN EACH DIRECTION WILL BE PROVIDED AS WELL AS LEFT TURN LANES AT INTERSECTIONS WHERE THEY ALREADY EXIST, UTILIZING THE EXISTING CONFIGURATION OF IL ROUTE 22. BUILD TEMPORARY PAVEMENT AS SHOWN ON THE PLANS ON THE NORTH SIDE OF IL ROUTE 22 FROM STA. 46+48.53 TO STA. 48+94.59 TEMPORARY PAVEMENT SHALL BE CONSTRUCTED ON THE NORTH SIDE OF IL ROUTE 22 FROM STA. 50+98.00 TO STA. 88+34.87. REMOVE MEDIANS AND REPLACE WITH TEMPORARY PAVEMENT AS SHOWN ON THE PLANS BETWEEN STA. 89+95.37 TO STA. 89+72.66

BUILD TEMPORARY PAVEMENT AS SHOWN ON THE PLANS ON THE NORTH SIDE OF IL. ROUTE 22 FROM STA. 57+64.01 TO STA. 115+12.03.
REMOVE MEDIANS AND REPLACE WITH TEMPORARY PAVEMENT AS SHOWN ON THE PLANS BETWEEN STA. 108+82.11 TO STA. 113+74.23.
BEFORE THE MEDIANS FROM STA. 139+09.88 BRIDGE END TO STA. 173+94.56 CAN BE REMOVED, THE OUTSIDE TEMPORARY PAVEMENT ADJACENT TO THE NORTH AND SOUTH SIDES MUST BE IN PLACE AT THESE LOCATIONS. TRAFFIC WILL BE SHIFTED TO THE OUTSIDE LANES UTILIZING EXISTING AND TEMPORARY PAVEMENT IN THESE AREAS. REMOVE MEDIANS AND REPLACE WITH TEMPORARY PAVEMENT FROM STA. 139+09.88 TO STA. 147+20.68 BUILD TEMPORARY PAVEMENT AS SHOWN ON THE SOUTH SIDE OF IL. ROUTE 22 FROM STA. 170+53.36 TO STA. 173+58.47.
AT WAUKEGAN ROAD, TRAFFIC USES EXISTING OUTSIDE LANES. BUILD TEMPORARY PAVEMENT AS SHOWN ON THE PLANS ON THE WEST SIDE OF WAUKEGAN ROAD FROM STA. 328+90.35 TO 329+95.34. REMOVE MEDIANS BETWEEN STA. 323+98.23 AND STA. 339+10.69; REPLACE WITH TEMPORARY PAVEMENT.
TEMPORARY SIGNALS WILL BE INSTALLED AT TELEGRAPH ROAD, WAUKEGAN ROAD, TENNYSON/RIDGE ROAD AND RIDGE ROAD. THEY WILL BE OPERATIONAL DURING STAGES 2, 3 AND 4.

STAGE 2

EASTBOUND AND WESTBOUND TRAFFIC WILL BE SHIFTED TO THE NORTH SIDE OF IL ROUTE 22 UTILIZING EXISTING AND TEMPORARY PAVEMENT FROM STA. 46+48.53 TO 115+12.03. FROM STA. 133+02.52 TO 174+24.52, EASTBOUND AND WESTBOUND TRAFFIC WILL UTILIZE EXISTING AND TEMPORARY PAVEMENT ON THE NORTH AND SOUTH SIDES OF IL ROUTE 22. ONE LANE IN EACH DIRECTION IS TO BE MAINTAINED. LEFT TURN LANES ARE PROVIDED AT INTERSECTIONS WHERE EXISTING LEFT TURN LANES ARE PRESENT.

STAGE 3

BUILD NEW PAVEMENT ON THE NORTH SIDE OF IL ROUTE 22 BETWEEN STA. 46+48.53 TO STA. 115+12.03. FROM STA. 139+09.88 TO STA. 174+26.76 ON IL. ROUTE 22 IS WIDENING AND RESURFACING SECTION AND IS TO BE COMPLETED USING TRAFFIC CONTROL AND PROTECTION FOR DAY TIME LANE CLOSURES.
AT WAUKEGAN RD., NORTHBOUND AND SOUTHBOUND TRAFFIC WILL USE THE EXISTING SOUTHBOUND LANES AND TEMPORARY PAVEMENT IN THE MEDIANS. ONE LANE IN EACH DIRECTION WILL BE PROVIDED AS WELL AS LEFT TURN LANES WHERE THEY ARE CURRENTLY PRESENT. BUILD THE PROPOSED NORTHBOUND LANES AND OUTSIDE CURB AND GUTTER ON WAUKEGAN RD., SOUTH OF IL. ROUTE 22.

IMMEDIATELY FOLLOWING THE SHIFT OF TRAFFIC TO THE STAGE 3 CONFIGURATION, ACCESS TO THE ENTRANCES ON THE NORTH SIDE OF IL. 22 SHALL BE MAINTAINED USING THE PAY ITEM TEMPORARY ACCESS (PRIVATE ENTRANCE).
ONE LANE IN EACH DIRECTION WILL BE MAINTAINED AS WELL AS LEFT TURN LANES AT THOSE INTERSECTIONS WHERE THEY EXISTED.

WHEN A GRADE CROSSING EXISTS EITHER WITHIN OR IN THE VICINITY OF A TEMPORARY TRAFFIC CONTROL ZONE, LANE RESTRICTIONS, FLAGGING (SEE MUTCD CHAPTER 6E), OR OTHER OPERATIONS SHALL NOT BE PERFORMED IN A MANNER THAT WOULD CAUSE HIGHWAY VEHICLES TO STOP ON THE RAILROAD OR LRT TRACKS, UNLESS A FLAGGER OR UNIFORMED LAW ENFORCEMENT OFFICER IS PROVIDED AT THE GRADE CROSSING TO MINIMIZE THE POSSIBILITY OF HIGHWAY VEHICLES STOPPING ON THE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE.

CONSTRUCT PROPOSED PAVEMENT:

| LEFT TURN LANE | RIGHT TURN LANE |
|---|---|
| LAKEWOOD DR. | |
| | |
| * | WAUKEGAN RD. |
| | |

* LEFT TURN LANES AT THE FOLLOWING INTERSECTIONS: DEERFIELD/BANNOCKBURN FIRE STATION, TELEGRAPH RD., DUNSINANE LN., WAUKEGAN RD., BANNOCKBURN GREEN SHOPPING CENTER (2 ENTRANCES), (STREET BETWEEN WILDWOOD AND BRIDGE), TENNYSON LN. AND RIDGE RD. SOUTH.

TRAFFIC ON WAUKEGAN ROAD WILL STAY CONFIGURED USING THE NORTHBOUND LANES. BUILD THE SOUTHBOUND LANES OF WAUKEGAN ROAD, NORTH OF IL ROUTE 22. BUILD THE OUTSIDE CURB AND GUTTER ALONG WAUKEGAN ROAD.

STAGE 4

EASTBOUND TRAFFIC UTILIZES THE NEW OUTSIDE EASTBOUND LANE AND WESTBOUND TRAFFIC USES THE NEW OUTSIDE WESTBOUND LANE ON IL ROUTE 22. BUILD CURB AND GUTTER AT THE MEDIANS, MEDIANS AND THE LANDSCAPING FOR THE MEDIANS. STRIPE THE INSIDE LANES AND LEFT TURN LANES ON IL ROUTE 22. SWITCH TRAFFIC TO NEW INSIDE LANES IN BOTH THE EASTBOUND AND WESTBOUND DIRECTIONS. BUILD REMAINING OUTSIDE CURB AND GUTTER AND SIDEWALK. STRIPE OUTSIDE LANES ON IL ROUTE 22. CLEAN EXISTING STORM SEWER AS CALLED OUT ON THE PLANS.

DUAL LEFT TURN LANES SHALL NOT BE OPENED TO TRAFFIC UNTIL THE PERMANENT TRAFFIC SIGNALS ARE ENERGIZED AND APPROVED FOR OPERATION.

PIPE CULVERTS, CLASS A, TYPE 1 12 in (TEMPORARY)

| | LOCATION | OFFSET | 12 In |
|---|---|---|---|
| STAGE 1 | 54+74 | LT. | 60' |
| | 62+89 | LT. | 66' |
| | 72+12 | LT. | 21' |
| | 74+59 | LT. | 18' |
| | 97+64 | LT. | 26' |
| | 101+55 | LT. | 66' |
| | 104+97 | LT. | 30' |
| | STAGE 1 | SUBTATAL | 287'-0" |

| | LOCATION | OFFSET | 12 In |
|---|---|---|---|
| STAGE 2 | 47+20 | RT. | 39' |
| | 50+46 | RT. | 43' |
| | 103+08 | RT. | 28' |
| | IL. 43 | 333+23.42 | 65' |
| | STAGE 2 | SUBTOTAL | 175'-0" |

TOTAL 287'-0" + 175'-0" + *158 = 620 ft

TEMPORARY CATCH BASIN

| | LOCATION | OFFSET | EACH |
|---|---|---|---|
| STAGE 1 | 35+03 | LT. | 1 |
| | 74+59 | LT. | 1 |
| | 97+64 | LT. | 1 |
| | 101+89 | LT. | 1 |
| | 104+88 | LT. | 1 |
| | STAGE 1 | SUBTOTAL | 5 EACH |

| | LOCATION | OFFSET | EACH |
|---|---|---|---|
| STAGE 2 | | | |
| | | | |
| | | | |
| | | | |
| | | | |

TOTAL 5 + 0 + * 5 = 10 EACH

*AN ADDITIONAL 5 TEMPORARY CATCH BASINS AND 158 FEET OF PIPE CULVERT HAS BEEN ADDED TO THE ESTIMATED QUANTITY TO BE USED AT THE DISCRETION OF THE ENGINEER.

THESE PROPOSED CULVERTS SHALL ALSO BE USED AS TEMPORARY DRAINAGE PIPES.

STAGE 2 TEMPORARY CATCH BASINS & CULVERT, IF NEEDED, WILL REMAIN IN PLACE UNTIL REPLACED WITH PERMANENT STRUCTURES IN STAGE 3.

| | | | |
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| | PLOT SCALE = 50.0000 ' / IN. | DRAWN - DC | REVISED - |
| | PLOT DATE = 7/28/2010 | CHECKED - JP | REVISED - |
| | | DATE - 05/14/2010 | REVISED - |

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

**IL. ROUTE 22**
**MAINTENANCE OF TRAFFIC GENERAL NOTES**

SCALE: NTS | SHEET NO. 33 OF 232 SHEETS | STA. | TO STA.

| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 337 | 20R-4 | LAKE | 232 | 33 |
| | | CONTRACT NO. 60860 | | |
| | ILLINOIS FED. AID PROJECT | | | |