STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED IN:

THE VILLAGE OF CARPENTERSVILLE AND THE VILLAGE OF EAST DUNDEE

0

PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 343 : IL ROUTE 68 (DUNDEE ROAD) IL 72 (MAIN STREET) TO PRAIRIE LAKE ROAD SECTION 631RS-4 **RESURFACING (3P)** KANE COUNTY

C-91-433-14

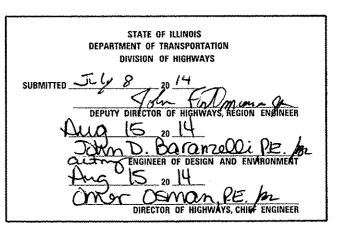
OMISSION: PROJECT ENDS STA. 69 + 12 TO STA.85 + 70STA 98+71 R 8 E LOCATION MAP **PROJECT BEGINS** TRAFFIC DATA: STA 14+92 2013 ADT = 16,400 SPEED LIMIT GILBERTS =35 TO 45 MPH DUNDEE HOFFMAN **DUNDEE TOWNSHIP**

GROSS LENGTH OF PROJECT = 8.379 FT = 1.587 MILES

NET LENGTH OF PROJECT = 6,721 FT = 1.273 MILES

D-91-433-14





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

PROJECT ENGINEER: DAN WILGREEN /(847) 705-4240 PROJECT MANAGER: KEN ENG /(847) 705-4247

CONTRACT NO. 60Y61

INDEX OF SHEETS

LIST OF STATE STANDARDS

| SHEET NO. | DESCRIPTION | STANDARD NO. | DESCRIPTION |
|-----------|---|--------------------|--|
| 1 | COVER SHEET | 000001-06 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 2 | INDEX OF SHEETS, STANDARDS, AND GENERAL NOTES | 424001 - 07 | PERPENDICULAR CURB RAMPS FOR SIDEWALKS |
| 3-5 | | 424006-01 | DIAGONAL CURB RAMPS FOR SIDEWALKS |
| 6-7 | | 424011 ~ 01 | CORNER PARALLEL CURB RAMPS FOR SIDEWALKS |
| 8-11 | | 424016 - 01 | MID-BLOCK CURB RAMPS FOR SIDEWALKS |
| 12 | DETECTOR LOOP REPLACEMENT PLANS | 424021-02 | DEPRESSED CORNER FOR SIDEWALKS |
| 13 | DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-08) | 424031 - 01 | MEDIAN PEDESTRIAN CROSSINGS |
| | PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22) | 442201 - 03 | CLASS C AND D PATCHES |
| 14 | | 604001-03 | FRAME AND LIDS, TYPE 1 |
| 15 16 | CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24) | 606001 <i>~05</i> | COMBINATION CONCRETE CURB AND GUTTER |
| | BUTT JOINT AND HMA TAPER DETAILS (BD-32) | 701011-04 | OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY |
| 17 | TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10) | 701301-04 | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS |
| 18 | TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11) | 701306- <i>03</i> | LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45 MPH |
| 19 | DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13) | 701311 - <i>03</i> | LANE CLOSURE 2L, 2W MOVING OPERATIONS DAY ONLY |
| 20 | TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14) | 701336 <i>-00</i> | LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS > 45 MPH |
| 21 | PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16) | 701427- <i>02</i> | LANE CLOSURE. MULTILANE, INTERMITTENT OR MOVING OPERATION FOR SPEEDS <= 40 MPH |
| 22 | ARTERIAL ROAD INFORMATION SIGN (TC-22) | 701501-00 | URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED |
| 23 | DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-05)(SHEET 2 OF 7) | 701606 - <i>09</i> | URBAN LANE CLOSURE, MULTILANE, 2W, WITH MOUNTABLE MEDIAN |
| 24 | DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07) | 701701-09 | URBAN LANE CLOSURE, MULTILANE INTERSECTION |
| | NOADIRI NESON ACTIO (15 OF) | 701801-05 | SIDEWALK, CORNER OR CROSSWALK CLOSURE |
| | | 701901- 03 | TRAFFIC CONTROL DEVICES |
| | • | 720001 - 01 | SIGN PANEL MOUNTING DETAILS |
| | | 720006-04 | SIGN PANEL ERECTION DETAILS |
| | | 728001-01 | TELESCOPING STEEL SIGN SUPPORT |
| | | 780001 <i>-04</i> | TYPICAL PAVEMENT MARKINGS |
| | | | |

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC. TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED).

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGES OF CARPENTERSVILLE AND EAST DUNDEE.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 11/2 INCHES (40 MM) WHERE THE SPEED LIMIT IS 45 MPH (45 KM/H) OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (45 KM/H). WITH WRITTEN APPROVAL FROM THE ENGINEER. A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

THE RESIDENT ENGINEER SHALL CONTACT DON CHIARUGI, AREA TRAFFIC FIELD ENGINEER AT (847) 741-9857 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKING AND SIGN SUPPORTS FOR NEW SIGN LOCATIONS.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.

ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

LOCATIONS OF SIDEWALK RAMPS CALLED OUT ON THE PLANS SHALL CONFORM TO CURRENT ADA REQUIREMENTS AND APPLICABLE STATE HIGHWAY STANDARDS OR AS DETERMINED BY THE ENGINEER.

ALL PROPOSED SIDE CURB QUANTITIES ARE INCLUDED IN THE PCC SIDEWALK 5" AND SHALL BE PAID AS SUCH.

TREE REMOVAL LOCATIONS WILL BE PROVIDED TO THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.

| FILE NAME = | USER NAME = PencePL | DESIGNED | ~ | PLP | REVISED | - | PLP | 8/13/2014 | |
|---|------------------------------|----------|---|-----|---------|---|-----|-----------|---|
| c:\pw_work\pwidot\pencapi\c048237i\Di43 | lf-sht-plan.dgn | DRAWN | ~ | PLP | REVISED | - | | | 1 |
| | PLOT SCALE = 188.9880 1/ to. | CHECKED | - | | REVISED | - | | | |
| Default | PLOT DATE = 8/13/2014 | DATE | ~ | | REVISED | - | | | |

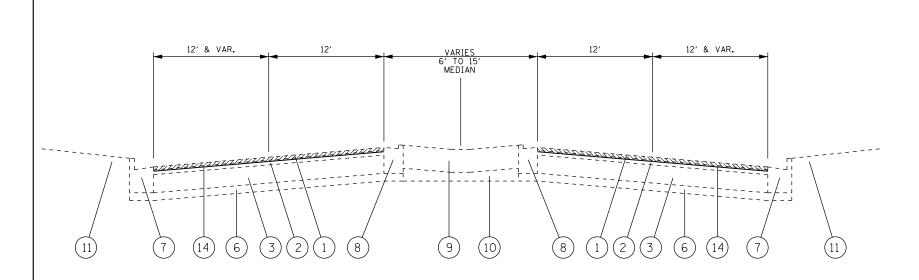
| STATE | : 01 | ILLINOIS |
|------------|------|----------------|
| DEPARTMENT | OF | TRANSPORTATION |

| IL 68(DUNDEE ROAD) (IL 72(MAIN STREET) TO PRAIRIE LAKE ROAD) | F.A.P. SECTION | COUNTY TOTAL SHEET NO. |
|--|-------------------|------------------------|
| INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES | 343 631RS-4 | KANE 24 2 |
| INDIA OF SHEETS, STATE STANDARDS AND OLIVERAL NOTES | | CONTRACT NO. GOYGI |
| SCALE: SHEET OF SHEETS STA. TO STA. | ILLINOIS FED. AIL | PROJECT |

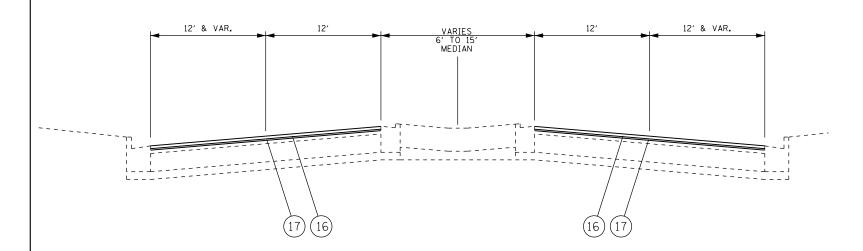
| | | | URBAN | | | | - 6665 | | | | | URBAN | | CONSTRI | CTION TYPE | CODE | |
|--|--|----------------------------------|---------------------|---|--|--|--|--|--|--|--|---------------------|-----------------------|--|--------------------|--|--|
| | SUMMARY OF QUANTITIES | | - | · | CONSTRI | UCTION TYPE | CODE T | | | SUMMARY OF QUANTITIES | | | | 1 | | | <u> </u> |
| CODE NO | ITEM | UNIT | TOTAL QUANTITIES | 100% STATE | - | . Thurst the residence of the supplementary of the | | В надачиствення подней под | CODE NO | ITEM | UNIT | TOTAL QUANTITIES | 100% STATE 0005 | A Company of the Comp | | | described to the second |
| 20100110 | TREE REMOVAL (6 TO 15 UNITS DIAMETER) | UNIT | 356 | 0005 356 | | | | | 42300200 | PORTLAND CEMENT CONCRETE DRIVEWAY | SQ YD | 4 | 4 | | | | |
| L. L | | | | | *************************************** | | - | The second secon | | PAVEMENT, 6 INCH | | | | | | | |
| 20100210 | TREE REMOVAL (OVER 15 UNITS DIAMETER) | UNIT | 103 | 103 | | | | | | | | | | | | | |
| | | | | | - | | | | 42300400 | PORTLAND CEMENT CONCRETE DRIVEWAY | SO YO | 4 | 4 | | - | | |
| 20201200 | REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL | CU YD | 5 | 5 | | anti- | The second secon | deservation deserv | | PAVEMENT, 8 INCH | | | | | | | |
| 21101615 | TOPSOIL FURNISH AND PLACE, 4" | SO YD | 101 | 101 | | The second secon | A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | A PART OF THE PART | 42400200 | PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH | SO FT | 1160 | 1160 | | | | |
| 25200110 | SODDING. SALT TOLERANT | SQ YD | 101 | 101 | Accordance and the second | | | Hiller Harry State of the State | 42400800 | DETECTABLE WARNINGS | SO FT | 132 | 132 | | | | |
| | | | | | | | | | | | | | | | | | |
| 35501308 | HOT-MIX ASPHALT BASE COURSE, 6" | SO YO | 2 | 2 | *************************************** | ************************************** | Anna na mara na | Hambie a Anna Anna Anna Anna Anna Anna Anna A | 44000158 | HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4" | SO YD | 33774 | 33774 | A THE PARTY OF THE | | | and the second s |
| 40600275 | BITUMINOUS MATERIALS (PRIME COAT) | POUND | 22799 | 22799 | | | | Agenty and an agenty and an agenty and an agenty and an agenty and agenty agenty and agenty agenty agenty and agenty | 44000200 | ORIVEWAY PAVEMENT REMOVAL | SO YO | 10 | 10 | *** | | | |
| 40600400 | MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS | TON | 51 | 5- | *************************************** | | | | 44000300 | CURB REMOVAL | FOOT | 457 | 457 | | | | <u> </u> |
| 40600827 | POLYMERIZED LEVELING BINDER (MACHINE | TON | 1394 | 1394 | | | | | 44000600 | SIDEWALK REMOVAL | SQ FT | 960 | 960 | W1111111111111111111111111111111111111 | | | <u> </u> |
| | METHOD), 1L-4.75, N50 | | | | | | | | The state of the s | | | | | | | | |
| | | | | | | | | | 44201803 | CLASS D PATCHES, TYPE II, 13 INCH | SO YD | 407 | 407 | | | | |
| 40600895 | CONSTRUCTING TEST STRIP | EACH | | 418 | | | | | 44201807 | CLASS D PATCHES, TYPE III, 13 INCH | SQ YD | 50 | 50 | *** | | | - |
| 40600982 | HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINY | SQ YO | 1013 | 1013 | | | | | | , | | | | | | 1 | |
| | | | | | | | | | 44201809 | CLASS D PATCHES, TYPE IV. 13 INCH | SQ YD | 100 | 100 | | | | arrenne behertrebeter ette st |
| 40603335 | HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 | TON | 1 | L | American 444 (American American America | | - | - | 10103103 | AGCRECATE WEDGE SHOULDER, TYPE B | TON | 82 | 82 | | | And the second s | |
| 40003340 | HOT-MIX ASPHALT SURFACE COURSE. MIX "D". N70 | TON | 2843 | 2843 | | | | | 48102100 | Addressie wede shoulden, The o | 1011 | | | | | | - |
| 40603340 | TOTALL SURFACE COURSE, WIN C , Ma | | | | | | | | 60300305 | FRAMES AND LIDS TO BE ADJUSTED | EACH | 4 | 4 | | | | |
| 42001300 | PROTECTIVE COAT | SQ YO | 369 | 369 | and and an analysis of the same of the sam | Anticon de contracto de contrac | | Andrew Comments | 60608300 | COMBINATION CONCRETE CURB AND GUTTER, | FOOT | 457 | 457 | | | | |
| | | | | Part of the state | Westernam | | | | 14 | TYPE M-2, 12 | | | | | | | + |
| SPECIALTY | ITEMS | | | 444444444444444444444444444444444444444 | | entre direction de la constantina della constant | | * | SPECIALTY | | And the state of t | | | | | | K |
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| CODE NO 60618210 | | UNIT | TOTAL | 100% | | TRUCTION TY | 1 | | | Summar | RY OF QUANTITIES | | | | | NSTRUCTION T | 1 | ~~~~ |
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| 60618210 | | UNIT | | 100% | i i | | 1 | 1 1 | <u> </u> | 1 | | | - | 100% | - 1 | 1 | ŀ | |
| | HOT-MIX ASPHALT MEDIAN SURFACE, 4 INCH | j | QUANTITIES | | | sages ethnology managements. | *************************************** | | CODE NO | | LTEM | UNIT | TOTAL QUANTITIES | STATE | and the first state of the first | | | |
| 4 66900200 | | SQ FT | 563 | 563 | | - | | | 70300100 | SHORT TERM PA | AVEMENT MARKING | FOOT | 4536 | 0005 4536 | | | | |
| 4 66900200 | | | VIII. | *************************************** | The state of the s | | | | Harmonia | *************************************** | | | | | | | | |
| 7 | NON-SPECIAL WASTE DISPOSAL | CU YO | KA . | 5 | | | | | 70300210 | - | VEMENT MARKING LETTERS AND | SO FT | 822 | 822 | | | | |
| | | | | | | | | 4 | | SYMBOLS | | | <u> </u> | | | | | <u> </u> |
| x 66900450 | SPECIAL WASTE PLANS AND REPORTS | L SUM | - | 1 | trindami vini | | | | Water the state of | | | | | | | | | |
| | | manufacture de la constitución d | | | | | | | 70300220 | TEMPORARY PAV | /EMENT MARKING - LINE 4" | FOOT | 19,882 | 19,882 | | | | |
| ₹ 66300230 | SOIL DISPOSAL ANALYSIS | EACH | | 1 | | | | | | | | | | _ | | | min de la companya de | |
| | | | | | | | 44444444444444444444444444444444444444 | | 70300240 | TEMPORARY PAV | /EMENT MARKING ~ LINE 6" | FOOT | 1960 | 1960 | | | | |
| 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 6 | 6 | mp.m. | | nd water and an analysis of the same and an analysis of th | | | | | | | | | 4 h | | - |
| | | | | | ta a a a a a a a a a a a a a a a a a a | | apa de circinata d | | 70300250 | TEMPORARY PAV | /EMENT MARKING - LINE 8" | FOOT | 165 | 165 | | | | |
| 67100100 | MOBILIZATION | L SUM | 1 | South Control of the | | | er denderske | 200 | 707000 | 75 | | | 770 | 070 | | | | |
| | | | | Balanta Africa A | | | tra francesco | | 70300260 | IEMPORARY PAV | /EMENT MARKING - LINE 12" | FOOT | 270 | 270 | | | | - |
| 70100460 | | Ł SUM | 1 | | | | for Art and toward of Art and Art | | 7070000 | *************************************** | ACTUAL TO A STATE OF THE STATE | 2007 | 700 | | | | | |
| | STANDARO 701306 | | | | | | | | 70300280 | TEMPORARY PAV | /EMENT MARKING - LINE 24" | FOOT | 367 | 367 | | | | |
| 70100600 | TRAFFIC CONTROL AND PROTECTION, | L SUM | 1 | Service of the servic | | | | | 70301000 | WORK ZONE PAV | /EMENT MARKING REMOVAL | SO FT | 1512 | 1512 | | | 7.0 | |
| | STANDARD 701336 | | | | | | | | THE STATE OF THE S | | | | | | | | And the second s | |
| | | | | | | | a mentra a diference | | * 78000100 | THERMOPLASTIC | PAVEMENT MARKING - | SO FT | 822 | 822 | | | *************************************** | <u> </u> |
| 70102620 | TRAFFIC CONTROL AND PROTECTION, | £ SUM | 1 | L | | | ************************************** | | | LETTERS AND S | SYMBOLS | | | | | | | |
| | STANDARD 701501 | | ta de la companya de | TO A CONTROL OF THE C | | | | | A Paragraphic State of the Stat | | | vodanostation | | | | | | |
| | | - | | POLICE I VALE BRANCH DE LEVEL | | | | | * 78000200 | THERMOPLASTIC | PAVEMENT MARKING - LINE 4" | FOOT | 19,882 | 19,882 | 200 | | | |
| 70102625 | | L SUM | | - | | | THE STATE OF THE S | | MANAGEM MANAGE | | · · · · · · · · · · · · · · · · · · · | of the second se | - | | | | | ļ |
| | STANDARD 701606 | - | | TANKS OF THE STATE | | | | *************************************** | * 78000400 | THERMOPLASTIC | PAVEMENT MARKING - LINE 6" | FOOT | 1960 | 1960 | | | | |
| 70102635 | TRAFFIC CONTROL AND PROTECTION. | L SUM | ľ | The state of the s | | | | THE PARTY OF THE P | * 78000500 | THERMOPLASTIC | PAVEMENT MARKING - LINE 8" | FOOT | 165 | 165 | | | TATELON AND AND AND AND AND AND AND AND AND AN | |
| | STANDARO 701701 | | | A PARTICIPATION OF THE PARTICI | | | And the state of t | | | | | | | | | | | |
| | | | | Control of the Contro | And the second s | | A | | * 78000600 | THERMOPLASTIC | PAVEMENT MARKING - LINE 12" | FOOT | 270 | 270 | | ····· | | |
| 70102640 | TRAFFIC CONTROL AND PROTECTION. | L SUM | 1 | · · · · · · · · · · · · · · · · · · · | | | a see la se la see la s | | | <u> </u> | | | The state of the s | | | | | |
| * T. | STANDARO 701801 | | | A A DESCRIPTION OF THE PARTY OF | | | | | * 78000650 | THERMOPLASTIC | PAVEMENT MARKING - LINE 24" | FOOT | 367 | 367 | | | | |
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| * SPECIALT | Y ITEMS | | | urren de coment este deserv | mare de la constante de la con | | *************************************** | | * SPECIALTY | ITEMS | | VA | | | | **multiplication | | Rev. |
| FILE NAME : | | ESIGNED - PI RAWN - PI | | REVISED REVISED | | | | STATE OF | II I IMOIS | | IL 68(DUNDEE ROAD) (IL 72(MAI | IN STREET | TO PRAIRIE | LAKE ROA | D) F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEE' SHEETS NO. |
| Default. | PLOT SCALE * 100.0000 ' / 10. CI | HECKED - | | REVISED REVISED | · | | | | RANSPORTA | | SCALE: SHEET OF | OF QUANT | | O STA. | 343 | 631RS-4 | CONTRACT | 24 4 NO, 60Y61 |

| | | SUMMARY OF QUANTITIES | | URBAN | | C | ONSTRUCT | ION TYPE | CODE | - Control of the Cont | | CHANADY OF QUANTITIES | | | 1 | CÓN | ISTRUCTION TYPE | CODE | |
|------------|-------------------|---|---|---------------------------------------|-------------------------------|---|--|--|--|--|--|-----------------------------|-----------------------------------|------------------|--|--------------------------------------|--|--|--|
| | .CODE NO | ITEM | UNIT | TOTAL QUANTITIES | 100% STATE | | | Annual An | | | CODE NO | SUMMARY OF QUANTITIES ITEM | UNIT | TOTAL QUANTITIES | 100% 57ATE | enting the standard constitutions on | | | The state of the s |
| | | | | | 0005 | | | | *************************************** | | | | 400 | | 0005 | | | | |
| 3 | ∤ 78100100 | RAISED REFLECTIVE PAVEMENT MARKER | EACH | 299 | 299 | | | | | | * 72400100 | REMOVE SIGN PANEL | EACH | 3 | 3 | | | | |
| | | | | | | | | | | | | ASSEMBLY-TYPE A | | | | | | | |
| | 78300200 | RAISED REFLECTIVE PAVEMENT MARKER REMOVAL | EACH | 324 | 324 | | A commence of the control of the con | | | 1 | | | | | A secondary of the seco | | | | |
| | | , | | | | | , | | | *** | X 72800100 | TELESCOPING STEEL SIGN | FOOT | 49 | 49 | | | | |
| ş | 88600600 | DETECTOR LOOP REPLACEMENT | FOOT | 552 | 552 | | orbite de la constante de la c | | | | | SUPPORT | | | and the same of th | | | | |
| | | | | | - | | | | | | | | | | | | | | |
| | ×2020110 | GRADING AND SHAPING SHOULDERS | UNIT | 41 | 41 | | | | | | and the state of t | | | | | | | | |
| | X4401198 | HOT-MIX ASPHALT SURFACE REMOVAL. | SO YD | 67 | 67 | | | | and the state of t | | | | | 1 | | | *************************************** | | |
| | | VARIABLE DEPTH | | | | | | | | | | | | | | | | | |
| | X4403800 | MEDIAN SURFACE REMOVAL | SO FT | 832 | <i>0</i> 32 | | | Andrew Control of the | | | | | | | | | | | |
| | | | ļ | | - | | | - | | ar de galer de | | - | <u> </u> | | | | *************************************** | | |
| | X6030310 | FRAMES AND LIDS TO BE ADJUSTED (SPECIAL) | EACH | 7 | 7 | | | *************************************** | | | | | | | | | | | |
| | x6062100 | STABILIZED MEDIAN SURFACE 12" | 50 YO | 20 | 20 | | | - | | n be described by the second s | | | | | | | Transport | | |
| | | | | | | | | | | and the state of t | | | | | | | | | |
| | Z0004562 | COMBINATION CONCRETE CURB AND GUTTER | FOOT | 483 | 483 | | | Architecture very strategy of the strategy of | A P P P P P P P P P P P P P P P P P P P | nangi wandi ananwa sa | 1 | | | | | | | | |
| | | REMOVAL AND REPLACEMENT | | | | | | | | V voca and v | | | | | | | | | |
| | Z0018500 | DRAINAGE STRUCTURES TO BE CLEANED | EACH | 78 | 78 | | | Control Marian | | | | | | | | | ere de la companya de | | |
| | | | | | | | | A CONTRACTOR AND A CONT | | d'angles de la constant de | | | | | | | | | |
| 11 | Z0030850 | TEMPORARY INFORMATION SIGNING | SO FT | 51.4 | 51.4 | | | | | *** | | | | | | | | | |
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| | 60300105 | FRAMES AND GRATES TO BE | EACH | 12 | 12 | | | | | *************************************** | | | | | | | | | |
| | | | | | | | | Annual section of the | | and the second | | | | | | | | | |
| . X | 72.000100 | SIGN PANEC-TYPE I | 50 FT | 27 | 27 | | | - Andrewson or Angles of A | | | | | | | | | | Annual and a second a second and a second and a second and a second and a second an | |
| | | | | | | | | and the same of th | | | | | | | | | | | |
| 3 | k SPECIALTY | ITEMS | | | | | | | | | * SPECIALTY | ITEMS | 1000 | | | | | | Rev. |
| | FILE NAME = | \pencep1\d0402371\014314-sht-plan.dgn | I SIGNEO - PL AWN - PL ECKEO - | | REVISED REVISED REVISED | | | I | | TATE OF I | ILLINOIS RANSPORTAT | IL 68(DUNDEE ROAD) (IL SUN | 72(MAIN STREET) IMARY OF QUANT | | LAKE ROAD | F.A.P. RTE. 343 | SECTION 631RS-4 | COUNTY S KANE CONTRACT | TOTAL SHEET SHEETS NO. 24 5 |
| | Dafau)s | | ĭε - | · · · · · · · · · · · · · · · · · · · | REVISED | | | | | | | SCALE; SHEET | OF SHEETS STA | | TO STA. | | ILLINOIS FED. | ID PROJECT | 00101 |



EXISTING TYPICAL ROADWAY SECTION
STA. 10+43.5 TO STA. 52+12



PROPOSED TYPICAL ROADWAY SECTION
STA. 10+43.5 TO STA. 52+12

** CONSTRUCT PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12 SO AS TO MEET FINAL PROPOSED SURFACE COURSE ELEVATION.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LEGEND:

- 1) EXISTING HMA SURFACE COURSE, 11/2"
- (2) EXISTING HMA BINDER COURSE, $2\frac{1}{2}$ "
- 3) EXISTING HMA BASE COURSE, 91/2"
- (4) EXISTING HMA PAVEMENT, 6" TO $7\frac{1}{2}$ "
- 5) EXISTING PCC PAVEMENT, 7" to 9"
- 6) EXISTING SUB-BASE GRANULAR MATERIAL TYPE B, 4" TO 6"
- 7) EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (8) EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12
- 9) EXISTING STABILIZED MEDIAN SURFACE, 12"
- (10) EXISTING SAND FILL
- 1) EXISTING TOPSOIL AND GRASS
- (12) EXISTING AGGREGATE SHOULDER, 6"
- 13) EXISTING HMA SHOULDER, 8"
- PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 21/4"
- (15) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
- 16) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5MM), 11/2"
- PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (18) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B / GRADING AND SHAPING SHOULDERS
- (19) PROPOSED CURB REMOVAL
- PROPOSED MEDIAN SURFACE REMOVAL
- *(21) PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12
 - (22) PROPOSED HOT MIX ASPHALT MEDIAN SURFACE, 4"

NOTE: CONTRACTOR SHALL MILL BEFORE PATCHING

| NOTE: CONTRACTOR SHALL MILL BEFORE PATCHING | | |
|--|-------------------------------------|-----------------------|
| HOT-MIX ASPHALT MIXTURE REQUIREME | NTS | QUALITY MANAGEMENT |
| MIXTURE TYPE | AIR VOIDS(%) @ N _{DES.} | PROGRAM (QMP) |
| PAVEMENT RESURFACING | | |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm), 11/2" | ′ 4% @ 70 G` | YR QCP |
| POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4' | ′ 3.5% @ 50 | GYR QCP |
| PATCHING | | |
| CLASS D PATCHES (HMA BINDER IL-19 mm) | 4% @ 70 G | YR QC/QA |
| DRIVEWAYS | | |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2" | 4% @ 50 G | YR QC/QA |
| HMA BASE COURSE (HMA BINDER IL-19 mm), PE - 6", CE - 8" | 4% @ 50 G | YR QC/QA |
| HOT MIX ASPHALT MEDIAN SURFACE | | |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 4" | 4% @ 50 G | YR QC/QA |
| STABILIZED MEDIAN SURFACE | | |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2" | 4% @ 50 G` | YR QC/QA |
| HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 10" | 4% @ 50 G` | YR QC/QA |
| QMP DESIGNATION: QUALITY CONTROL FOR PERFORMANCE(QCP); QUALITY CONTROL | NTROL/QUALITY AS | SSURANCE(QA/QC) |

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

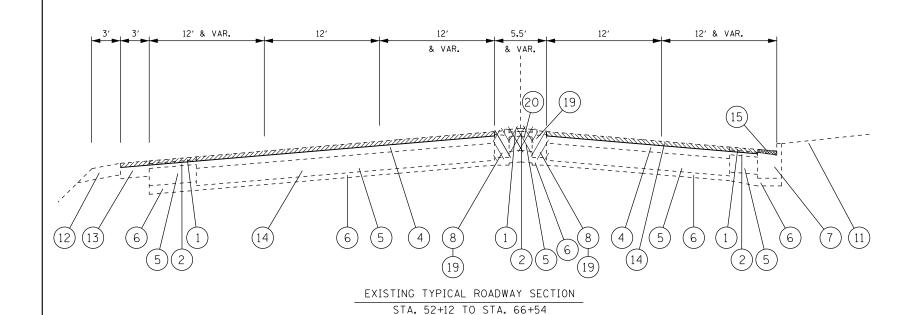
THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS, FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS, QUALITY MANAGEMENT PROGRAM (OMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE

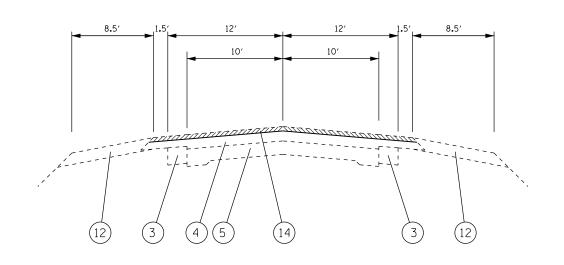
IL 68(DUNDEE ROAD) (IL 72(MAIN STREET) TO PRAIRIE LAKE ROAD)

EXISTING AND PROPOSED TYPICAL SECTIONS

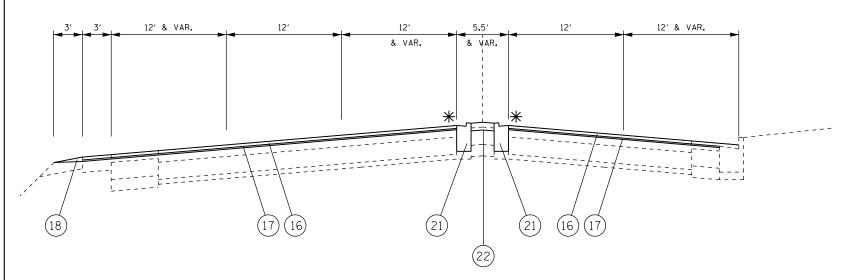
SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | SHEETS | NO. |
| 343 | 631RS-4 | KANE | 24 | 6 |
| CONTRACT NO. | 60Y61



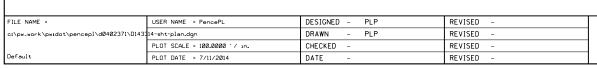


STA. 66+54 TO STA. 69+12 STA. 85+70 TO STA. 98+71

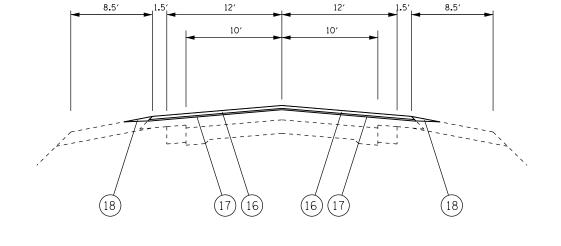


PROPOSED TYPICAL ROADWAY SECTION
STA. 52+12 TO STA. 66+54

** CONSTRUCT PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12 SO AS TO MEET FINAL PROPOSED SURFACE COURSE ELEVATION.



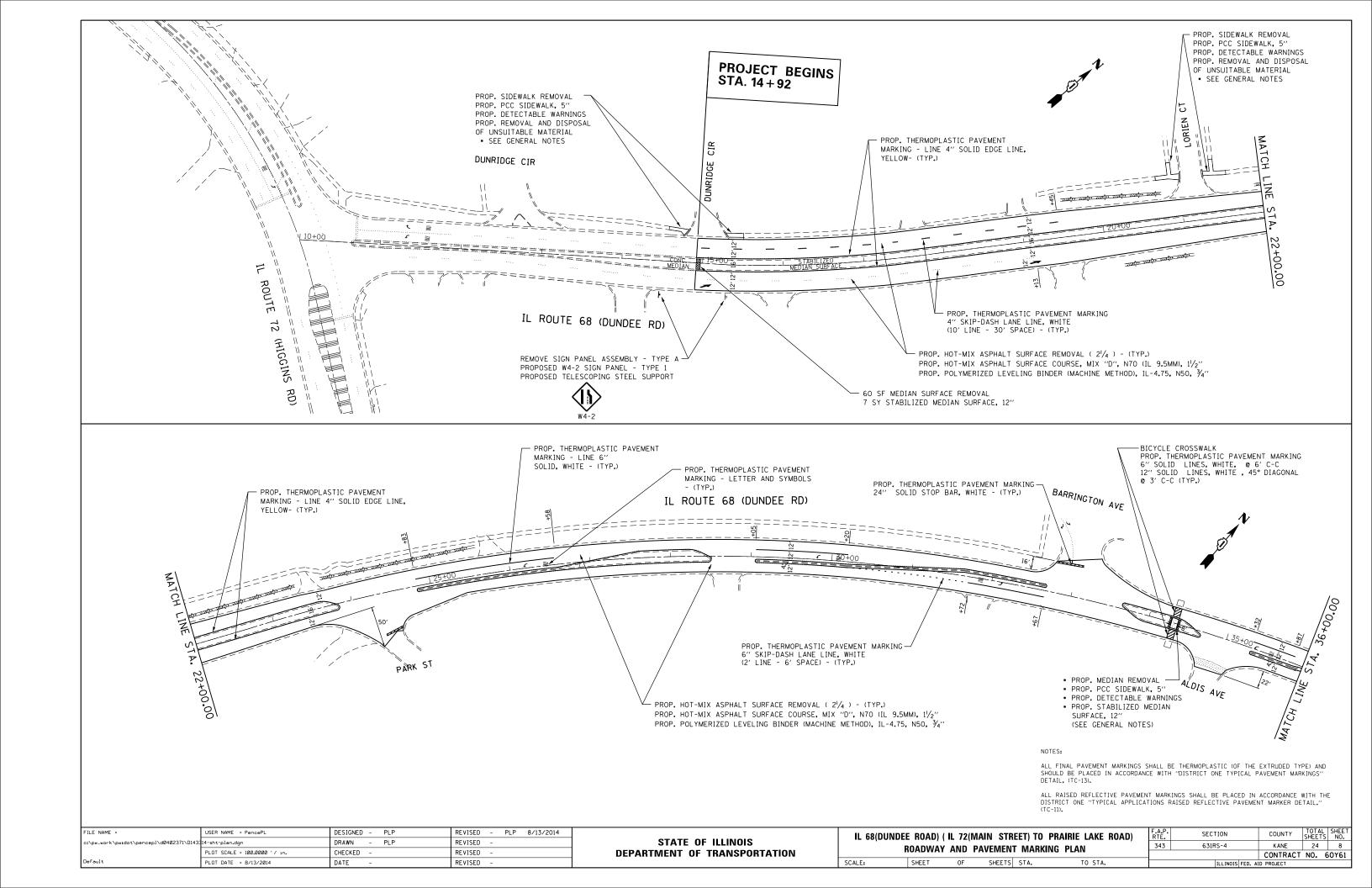
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

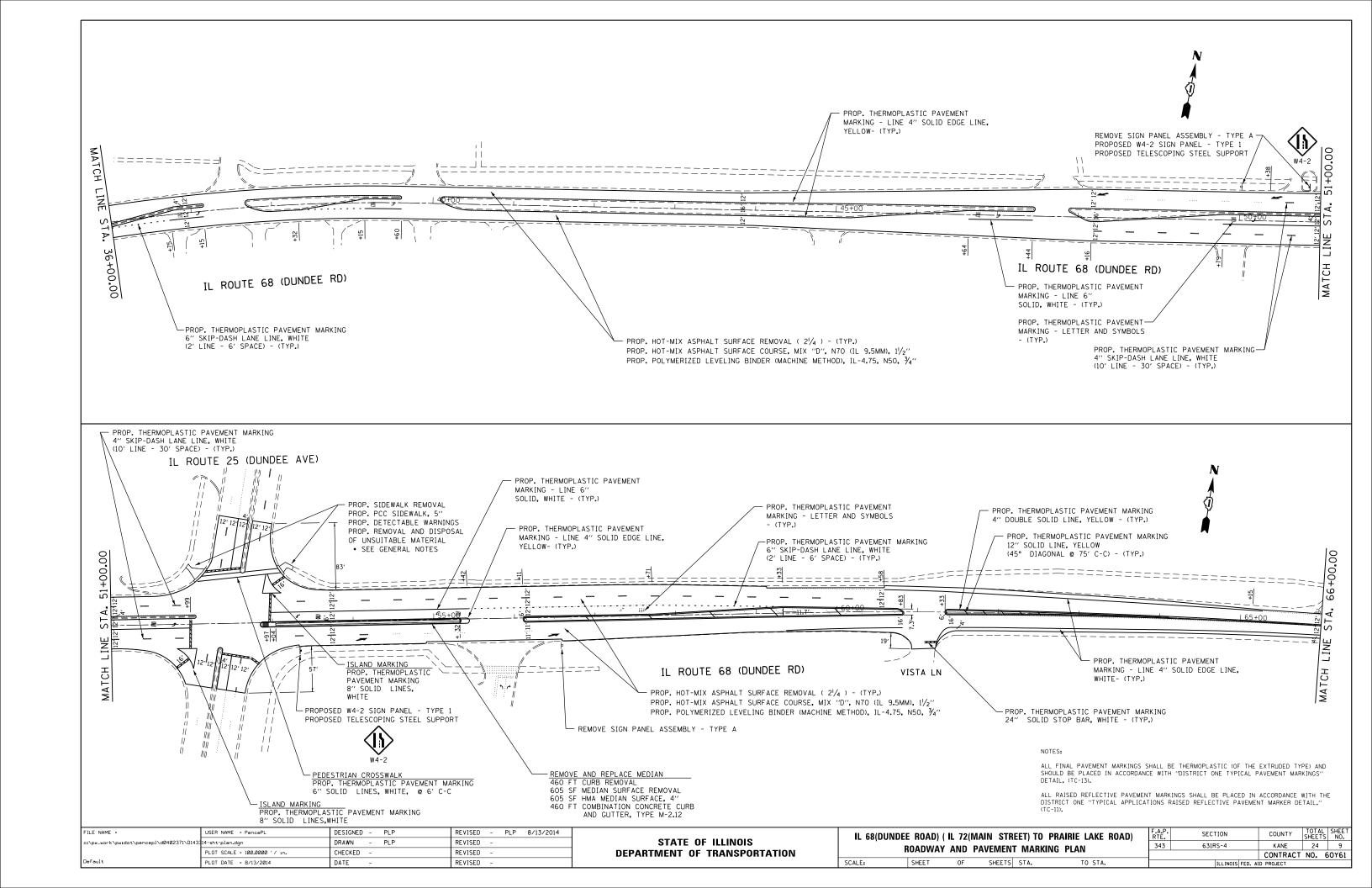


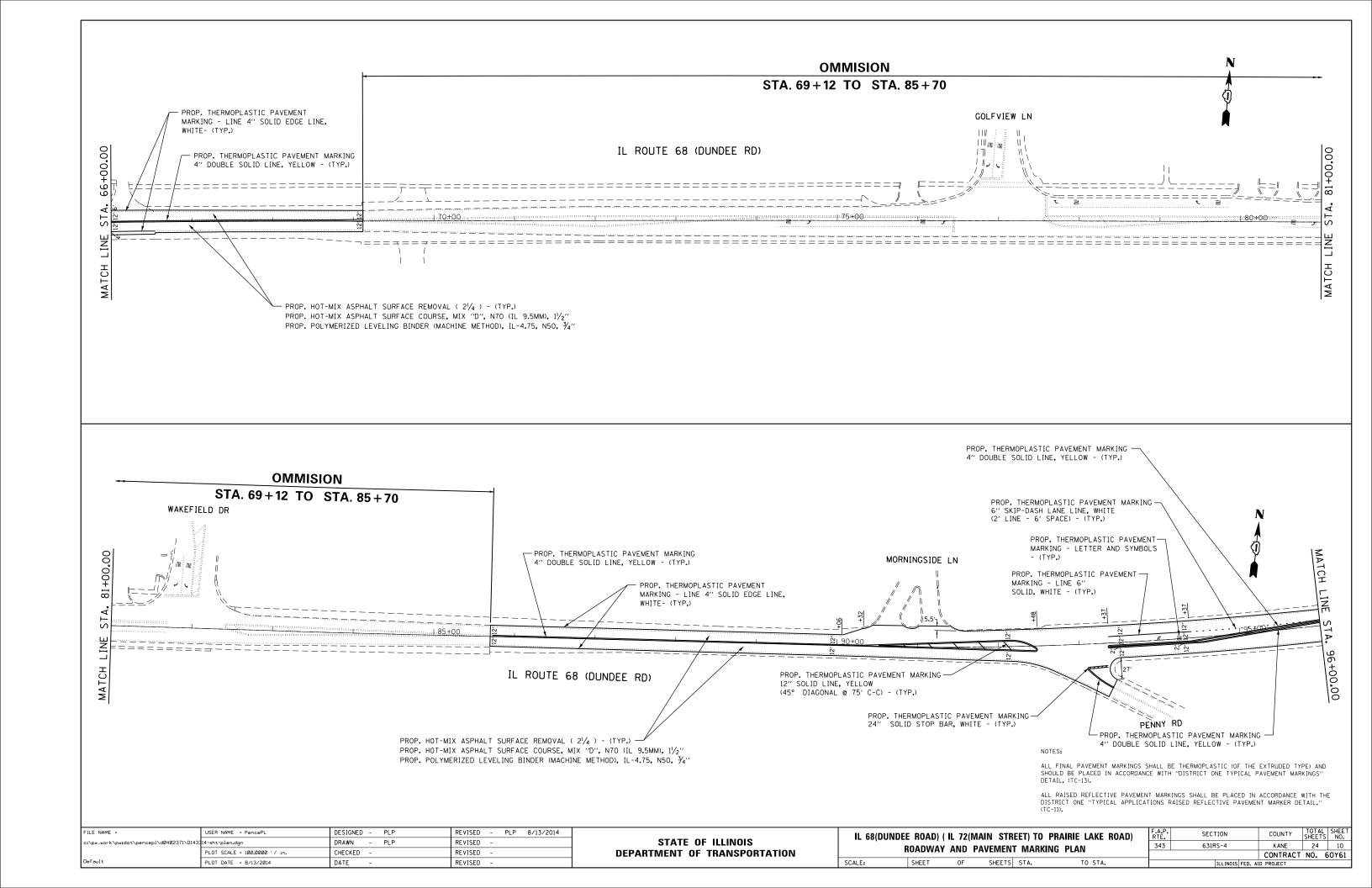
PROPOSED TYPICAL ROADWAY SECTION

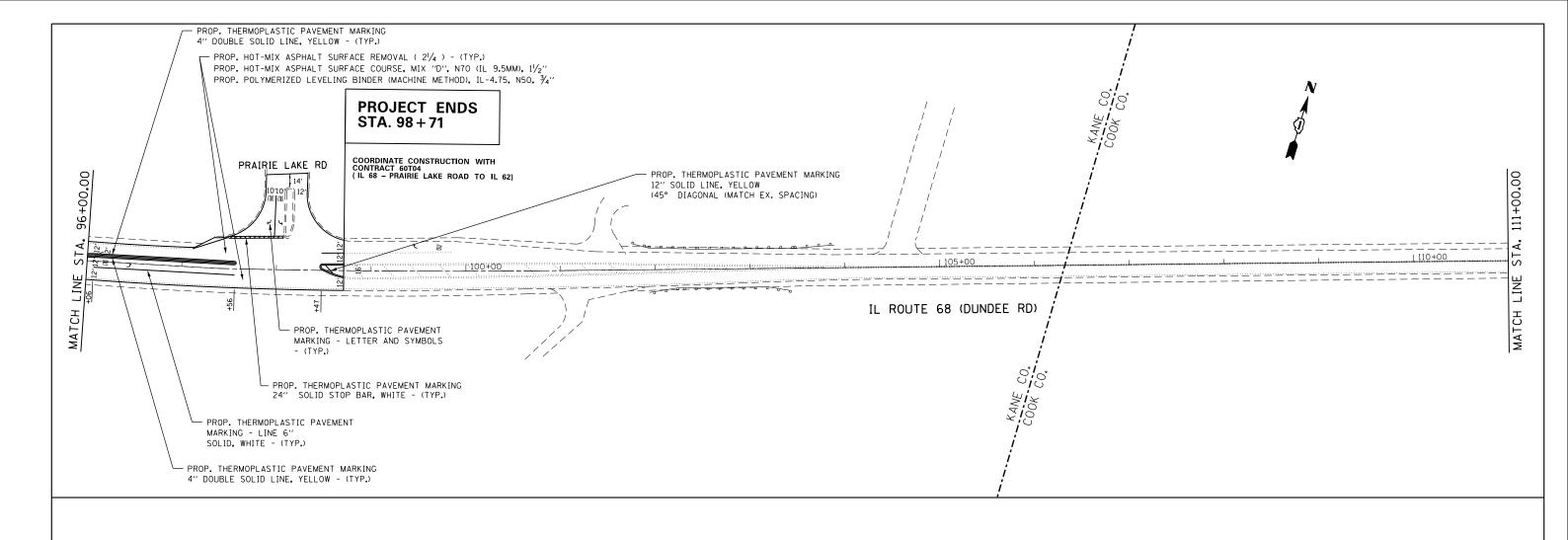
STA. 66+54 TO STA. 69+12
STA. 85+70 TO STA. 98+71

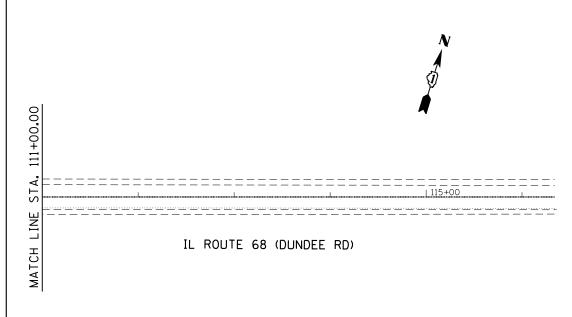
| IL 68(DUND | EE ROAD) | (IL 72(N | IAIN STR | F.A.P. RTE. | SECTION | COUNTY | TOTAL | SHEET NO. | | |
|------------|----------|-----------|----------|----------------|------------|--------|-----------------|--------------|-----|-------|
| , | FYICTING | AND PR | NDUCED | TVPICAL | SECTIONS | 343 | 631RS-4 | KANE | 24 | 7 |
| | LXISTING | ווו טווו | OI OOLD | IIIIOAL | . SECTIONS | | | CONTRACT | NO. | 60Y61 |
| SCALE: | SHEET | OF | SHEETS | STA. | TO STA. | | ILLINOIS FED. A | D PROJECT | | |











ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (OF THE EXTRUDED TYPE) AND SHOULD BE PLACED IN ACCORDANCE WITH "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" DETAIL. (TC-13).

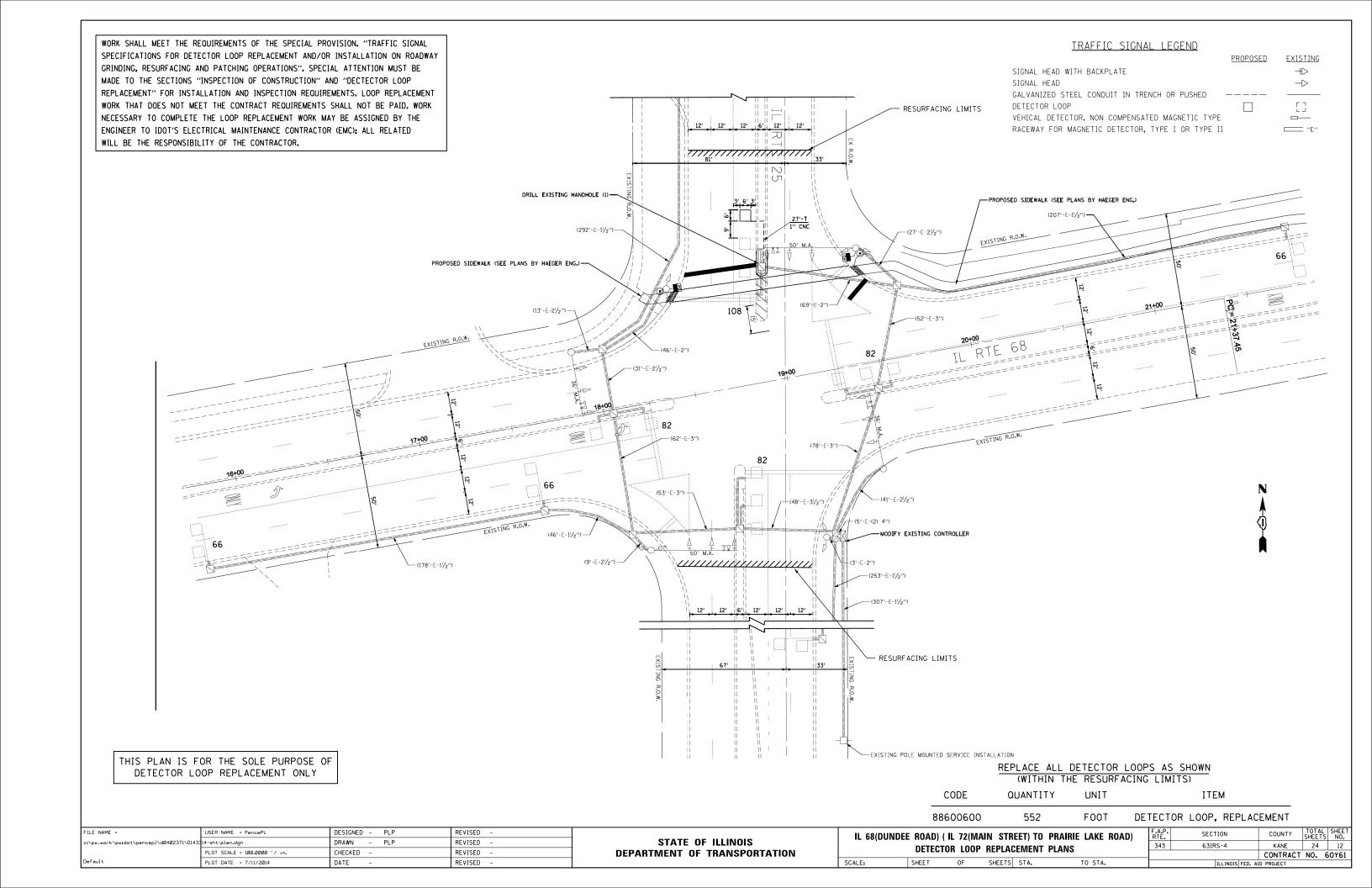
ALL RAISED REFLECTIVE PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKER DETAIL." (TC-11).

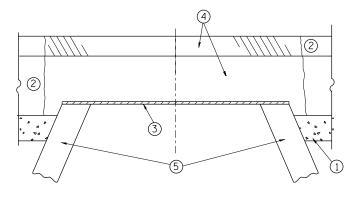
SECTION 631RS-4 COUNTY TOTAL SHEET NO.

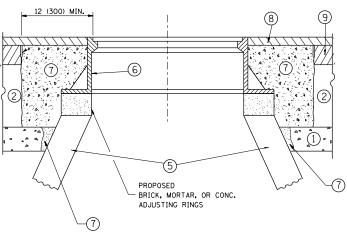
KANE 24 11

CONTRACT NO. 60Y61

| FILE NAME = | | USER NAME = PencePL | DESIGNED - PLP | REVISED - | | II 68/DUNDE | F ROAD) (| II 72(M | AIN STR | FFT) TO PR | AIRIE LAKE ROAD) | F.A.P. | S |
|-------------|---|-------------------------------|----------------|-----------|------------------------------|-------------|----------------|---------|----------|------------|------------------|--------|---|
| | c:\pw_work\pwidot\pencepl\d0402371\D143 | l4-sht-plan.dgn | DRAWN - PLP | REVISED - | STATE OF ILLINOIS | | , , | | | , | | 343 | |
| | | PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | ı | SUADWAY | AND P | AVEIVIEN | T MARKING | PLAN | | |
| | Default | PLOT DATE = 7/11/2014 | DATE - | REVISED - | | SCALE. | SHEET | ΩF | CHEETS | STA | TO STA | | |







EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109,04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED. THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.

 D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 11/2 (40)
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 11/2 (40)
 THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1*
 CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING
 BASE COURSE OR THE BINDER COURSE.
- * UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE FNGINFER."

LEGEND

- 1 SUB-BASE GRANULAR MATERIAL
- (6) FRAME AND LID (SEE NOTES)
- 2 EXISTING PAVEMENT
- (7) CLASS PP-1* CONCRETE
- 3 36 (900) DIAMETER METAL PLATE
- (8) PROPOSED HMA SURFACE COURSE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX
 EXISTING STRUCTURE
- (9) PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL,"

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

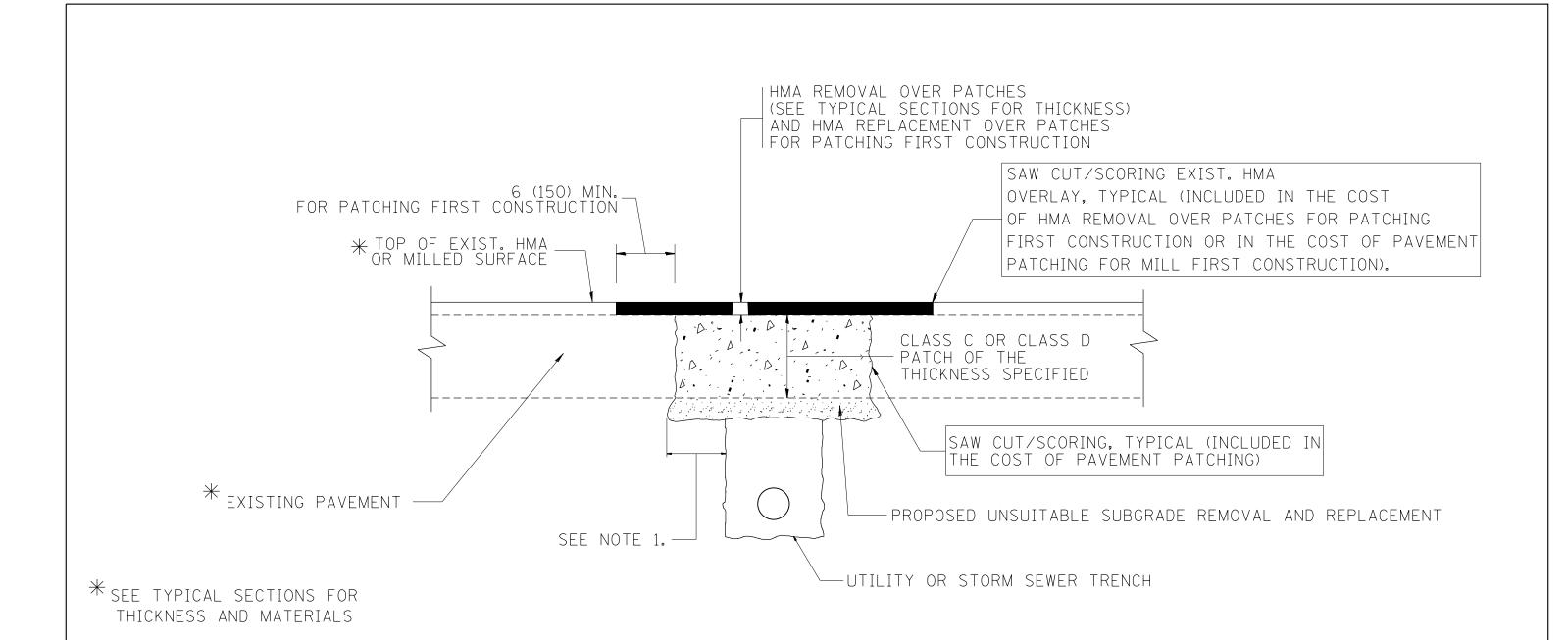
NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

| FILE NAME = USER NAME = PencePL | | DESIGNED | - | R. SHAH | REVISED | - | R. | WIEDEMAN 05-14-04 | |
|--|------------------------------|----------|---|----------|---------|---|----|-------------------|---|
| c:\pw_work\pwidot\pencepl\d040237l\DistS | td.dgn | DRAWN | - | | REVISED | - | R. | BORO 01-01-07 | |
| | PLOT SCALE = 100.0000 '/ in. | CHECKED | - | | REVISED | - | R. | BORO 03-09-11 | İ |
| | PLOT DATE = 7/11/2014 | DATE | - | 10-25-94 | REVISED | - | R. | BORO 12-06-11 | ĺ |

| DETAILS FOR | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | |
|--|----------------|---------------------------------|------------|-----------------|-------|
| FRAMES AND LIDS ADJUSTMENT WITH MILLING | 343 | 631RS-4 | KANE | 24 | 13 |
| | | BD600-03 (BD-8) | CONTRACT | NO. | 60Y61 |
| SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. | FED. R | OAD DIST, NO. 1 ILLINOIS FED. A | ID PROJECT | | |



- 1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
- 2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

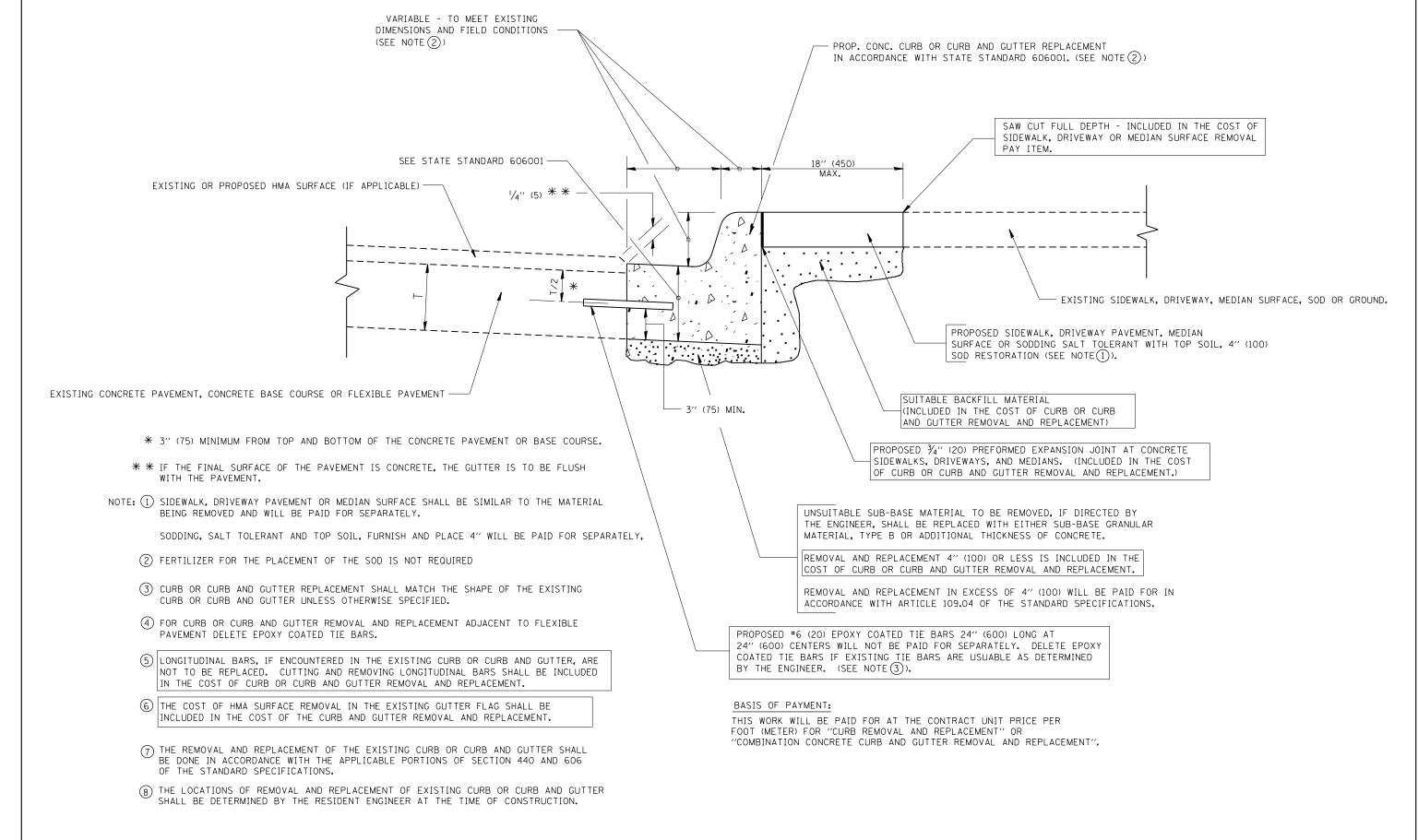
- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

- 1. MILL HMA FIRST IF THERE IS AT LEAST 41/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

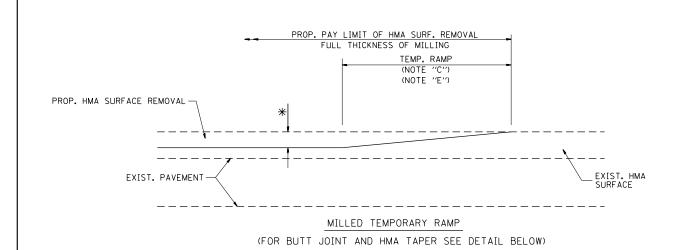
| F | ILE NAME = | USER NAME = PencePL | DESIGNED - R. SHAH | REVISED - A. ABBAS 04-27-98 | | PAVEMENT PATCHING FOR | F.A.P. | SECTION | COUNTY | TOTAL SH | EET |
|---|---|------------------------------|--------------------|-----------------------------|------------------------------|--|-----------------|------------------------|----------|----------|-----|
| ٥ | :\pw_work\pwidot\pencepl\d0402371\DistS | td.dgn | DRAWN - | REVISED - R. BORO 01-01-07 | STATE OF ILLINOIS | | 343 | 631RS-4 | KANE | 24 | 14 |
| | | PLOT SCALE = 100.0000 '/ in. | CHECKED - | REVISED - R. BORO 09-04-07 | DEPARTMENT OF TRANSPORTATION | HMA SURFACED PAVEMENT | BD400- | -04 (BD-22) | CONTRACT | NO. 601 | 61 |
| | | PLOT DATE = 7/11/2014 | DATE - 10-25-94 | REVISED - K. ENG 10-27-08 | | SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. | FED. ROAD DIST. | NO. 1 ILLINOIS FED. AI | | | |



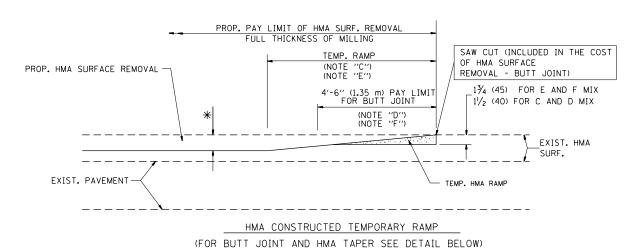
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

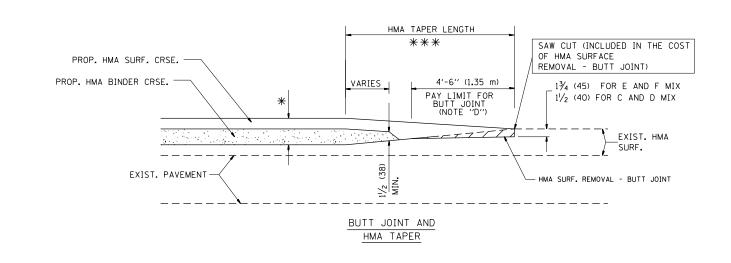
| FILE NAME = | USER NAME = PencePL | DESIGNED - A. HOUSEH | REVISED - R. SHAH 10-03-96 | | | CURB OR CURB AND GUTTER | | F.A.P. | SECTION | COUNTY | SHEETS | SHEET I |
|--|-------------------------------|----------------------|-----------------------------|------------------------------|-------------|------------------------------|---------|--------|-----------------|-------------|----------|---------|
| c:\pw_work\pwidot\pencepl\d0402371\Dist9 | didgn | DRAWN - | REVISED - A. ABBAS 03-21-97 | STATE OF ILLINOIS | | | | 343 | 631RS-4 | KANE | 24 | 15 |
| | PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - M. GOMEZ 01-22-01 | DEPARTMENT OF TRANSPORTATION | | REMOVAL AND REPLACEMENT | | BE | 0600-06 (BD-24) | CONTRACT | T NO. 60 | 0Y61 |
| | PLOT DATE = 7/11/2014 | DATE - 03-11-94 | REVISED - R. BORO 12-15-09 | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS STA. | TO STA. | | | AID PROJECT | | |



OPTION 1



OPTION 2 TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

FILE NAME = USER NAME = PencePL DESIGNED - M. DE YONG REVISED - R. SHAH 10-25-94

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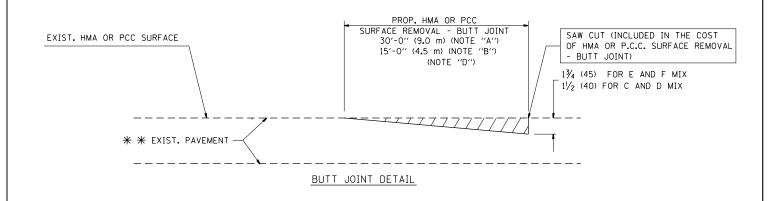
PLOT SCALE = 100.0000 '/ in. CHECKED - REVISED - M. GOMEZ 04-06-01

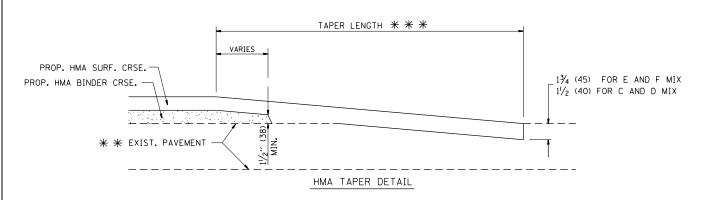
PLOT DATE = 7/11/2014 DATE - 06-13-90 REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS

OTHERWISE SHOWN.





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

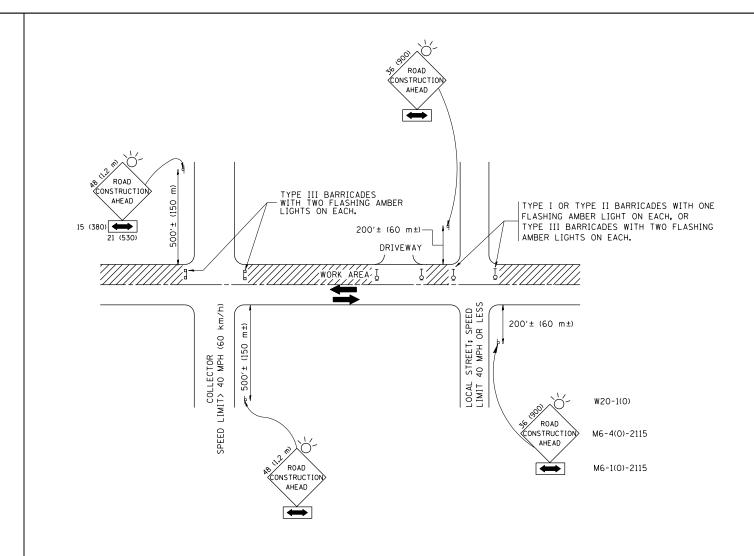
* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- : MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- # # 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A") 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- Q) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h)
 AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- g) ONE ROAD CONSTRUCTION AHEAD SIGN 48 \times 48 (1.2 m \times 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

SCALE: NONE

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

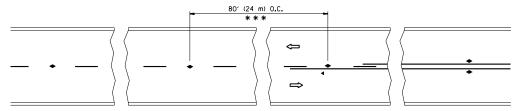
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

| FILE NAME = | USER NAME = PencePL | DESIGNED - | LHA | REVISED | - J. OBERLE 10-18-95 |
|--|------------------------------|------------|-------|---------|-----------------------|
| c:\pw_work\pwidot\pencepl\d040237l\DistS | td.dgn | DRAWN - | | REVISED | - A. HOUSEH 03-06-96 |
| | PLOT SCALE = 100.0000 '/ in. | CHECKED - | | REVISED | - A. HOUSEH 10-15-96 |
| | PLOT DATE = 7/11/2014 | DATE - | 06-89 | REVISED | -T. RAMMACHER 01-06-0 |

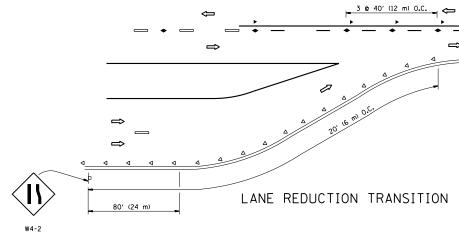
| STATE | : OF | : ILLINOIS |
|------------|------|----------------|
| DEPARTMENT | 0F | TRANSPORTATION |

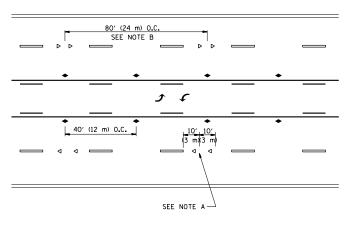
| | | | | | ON FOR | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHE |
|--|----------|---|--------|------|---------|----------------|-------------------------------|------------|-----------------|-----|
| SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS | | | | 343 | 631RS-4 | KANE | 24 | 1 | | |
| | | | | | TC-10 | CONTRACT | NO. (| 60Y6 | | |
| SHFFT N | IO. 1 OF | 1 | SHEETS | STA. | TO STA. | EEU B | OAD DIST NO 1 THE INDIS EED A | ID PROJECT | | |



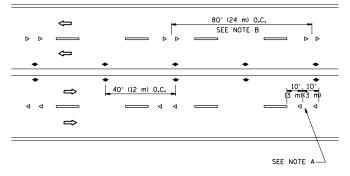
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

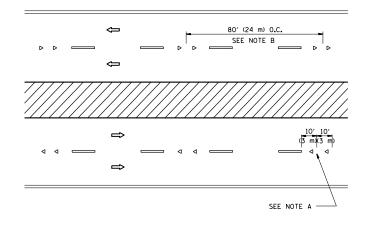




TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

- MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
- 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- 3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

---- YELLOW STRIPE

---- WHITE STRIPE

- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (₩/O)
- ◆ TWO-WAY AMBER MARKER

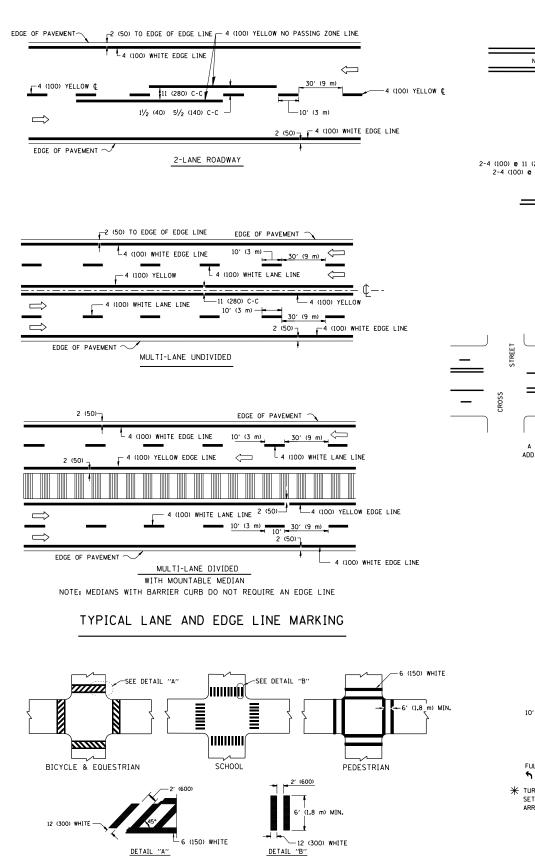
DESIGN NOTES

- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
- 4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

LEFT TURN

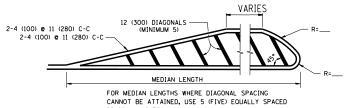
All dimensions are in inches (millimeters) unless otherwise shown.

| FILE NAME = | USER NAME = PencePL | DESIGNED - | REVISED -T. RAMMACHER 09-19-94 | | | TYPICAL APPLICA | TIONS | F.A.P. | SECTION | COUNTY | SHEETS N | NO. |
|--|-------------------------------|------------|--------------------------------|------------------------------|-------------|----------------------------|---------------------------|----------|--------------------------|------------------|-----------|-----|
| c:\pw_work\pwidot\pencepl\d0402371\Dist9 | td.dgn | DRAWN - | REVISED -T. RAMMACHER 03-12-99 | STATE OF ILLINOIS | DAIGED | | | 343 | 631RS-4 | KANE | 24 | 18 |
| | PLOT SCALE = 100.0000 ' / 10. | CHECKED - | REVISED -T. RAMMACHER 01-06-00 | DEPARTMENT OF TRANSPORTATION | KAISED | REFLECTIVE PAVEMENT MARKER | S (SNUVV-PLUVV KESISTANT) | | TC-11 | CONTRAC | T NO. 60Y | Y61 |
| | PLOT DATE = 7/11/2014 | DATE - | REVISED - C. JUCIUS 09-09-09 | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. TO STA. | FED. ROA | D DIST. NO. 1 ILLINOIS | FED. AID PROJECT | | |



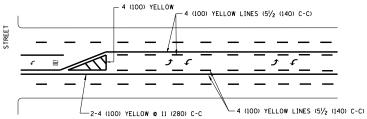
4' (1.2 m) OUTSIDE TO NO DIAGONALS OUTSIDE OF LINES __ 2-4 (100) YELLOW @ 11 (280) C-C

4' (1.2 m) WIDE MEDIANS ONLY

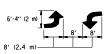


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

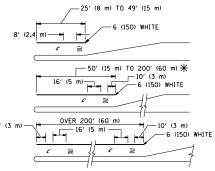


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

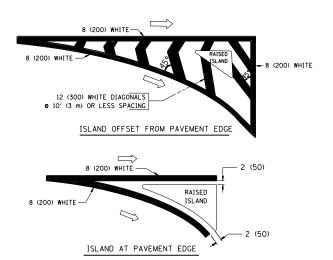


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SO. FT. (1.5 m²) \P AREA = 20.8 SO. FT. (1.9 m²)

* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

| TURE OF MIRWING | | | | DELENIE A DELUBYS |
|---|---|------------------------------------|---|--|
| TYPE OF MARKING | WIDTH OF LINE | PATTERN | COLOR | SPACING / REMARKS |
| CENTERLINE ON 2 LANE PAVEMENT | 4 (100) | SKIP-DASH | YELLOW | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT | 2 @ 4 (100) | SOLID | YELLOW | 11 (280) C-C |
| NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS | 4 (100) 2 @ 4 (100) | SOLID SOLID | YELLOW YELLOW | 5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 1280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN |
| LANE LINES | 4 (100) 5 (125) ON FREEWAYS | SKIP-DASH SKIP-DASH | WHITE WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS) | SAME AS LINE BEING EXTENDED | SKIP-DASH | SAME AS LINE BEING EXTENDED | 2' (600) LINE WITH 6' (1.8 m) SPACE |
| EDGE LINES | 4 (100) | SOLID | YELLOW-LEFT WHITE-RIGHT | OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB |
| TURN LANE MARKINGS | 6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m)) | SOLID | WHITE | SEE TYPICAL TURN LANE MARKING DETAIL |
| TWO WAY LEFT TURN MARKING | 2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW | SKIP-DASH AND SOLID IN PAIRS | WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL |
| CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL) | 2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90° | SOLID SOLID SOLID | WHITE WHITE WHITE | NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART 5EE TYPICAL CROSSWALK MARKING DETAILS. |
| STOP LINES | 24 (600) | SOLID | WHITE | PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE |
| PAINTED MEDIANS | 2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1,2 m) WIDE MEDIANS | SOLID | YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC | 11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING. |
| GORE MARKING AND CHANNELIZING LINES | 8 (200) WITH 12 (300) DIAGONALS @ 45° | SOLID | WHITE | DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h)) |
| RAILROAD CROSSING | 24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X" | SOLID | WHITE | SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO. FT. (0.33 m²) EACH "X"=54.0 SO. FT. (5.0 m²) |
| SHOULDER DIAGONALS | 12 (300) © 45° | SOLID | WHITE - RIGHT YELLOW - LEFT | 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h)) |

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

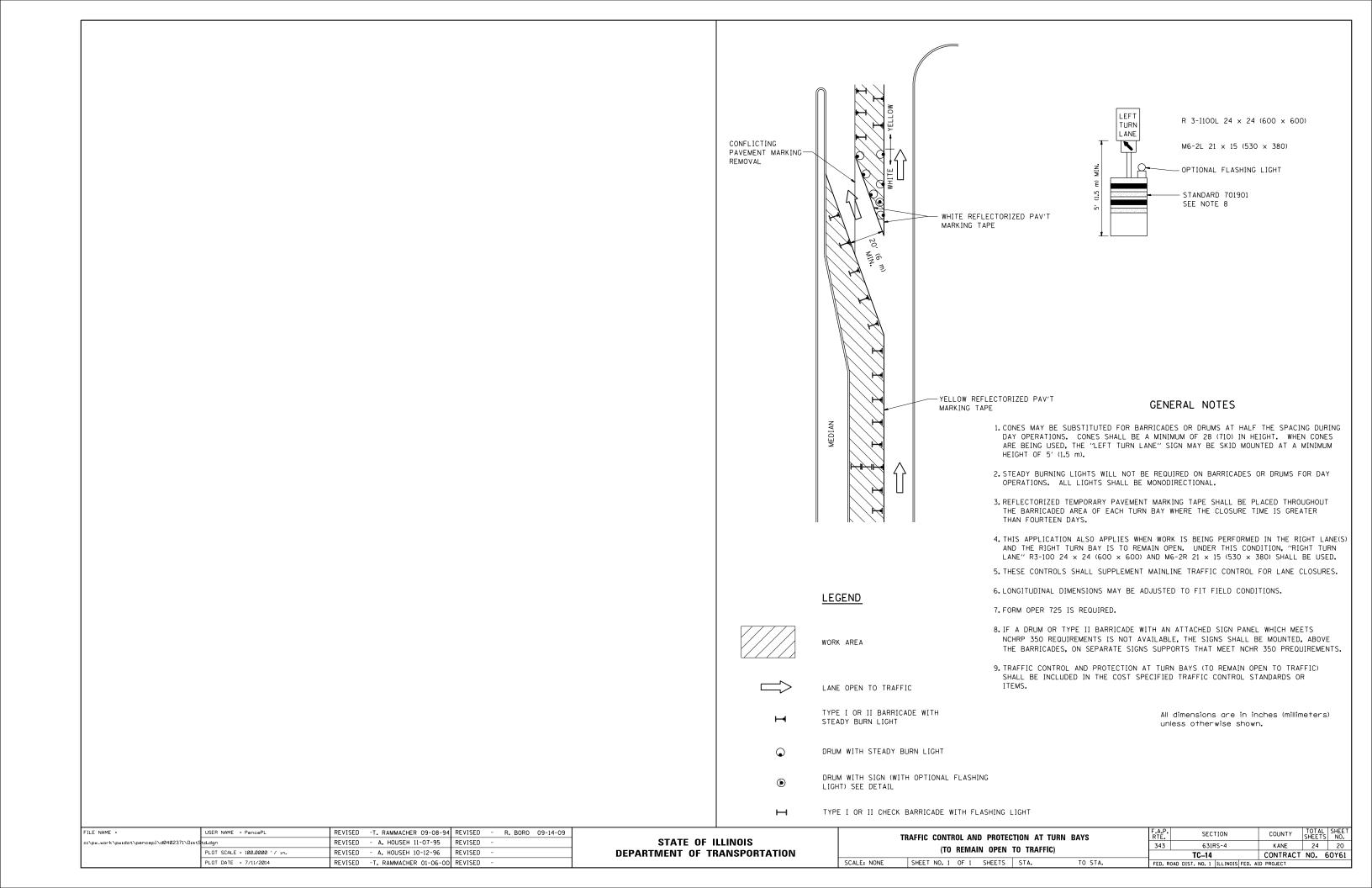
| FILE NAME = | USER NAME = PencePL | DESIGNED - | EVERS | REVISED | -T. RAMMACHER | 10-27-94 |
|--|------------------------------|------------|----------|---------|---------------|----------|
| c:\pw_work\pwidot\pencepl\d040237l\DistS | td.dgn | DRAWN - | | REVISED | -C. JUCIUS | 09-09-09 |
| | PLOT SCALE = 100.0000 '/ in. | CHECKED - | | REVISED | - | |
| | PLOT DATE = 7/11/2014 | DATE - | 03-19-90 | REVISED | - | |

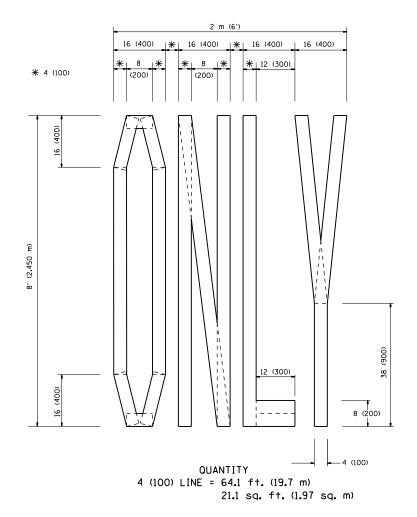
TYPICAL CROSSWALK MARKING

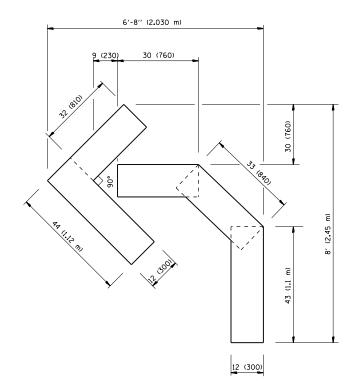
DETAIL "B"

| STATE OF ILLINOIS | ; |
|------------------------------|----------|
| DEPARTMENT OF TRANSPO | RTATION |

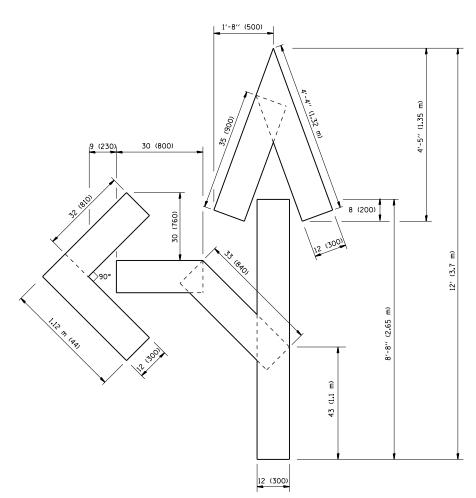
| | | DISTRICT OF | NE | | F.A.P. RTE. | SECTION | COUNTY | TOTAL | | |
|--|---------|-------------|----------|--------|-----------------------------------|------------|--------|-------|----|--|
| | TVDICAL | PAVEMENT | MARKINGS | | 343 | 631RS-4 | KANE | 24 | 19 | |
| | TITICAL | FAVLIVILIVI | WANKINGS | | TC-13 CONTRACT NO. 6 | | | | | |
| SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. | | | | FED. R | OAD DIST. NO. 1 ILLINOIS FED. A | ID PROJECT | | | | |







OUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)



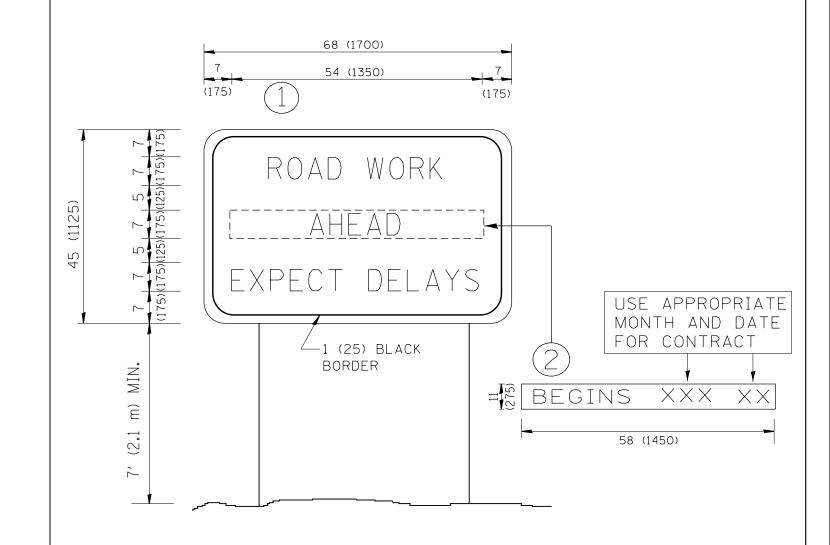
OUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)

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

| FILE NAME = | USER NAME = PencePL | DESIGNED - | REVISED -T. RAMMACHER 06-05-9 | ¹⁶ |
|--|------------------------------|-----------------|-------------------------------|--------------------------------|
| c:\pw_work\pwidot\pencepl\d0402371\DistS | td.dgn | DRAWN - | REVISED -T. RAMMACHER 11-04-9 | STATE OF ILLINOIS |
| | PLOT SCALE = 100.0000 '/ in. | CHECKED - | REVISED -T. RAMMACHER 03-02-9 | B DEPARTMENT OF TRANSPORTATION |
| | PLOT DATE = 7/11/2014 | DATE - 09-18-94 | REVISED -E. GOMEZ 08-28-00 | |

| | PAVEMENT | MARKING | LETTERS | SAND | SYMBOLS |
|-------------|-------------|----------|---------|------|---------|
| | | FOR TRAF | FIC STA | GING | |
| SCALE: NONE | SHEET NO. 1 | OF 1 SH | HEETS | STA. | TO STA. |

| F.A.P. RTE. | | SEC | TION | | COUNTY | TOTAL SHEETS | SHEET NO. |
|----------------|-----------|-------|----------|----------|------------|-----------------|--------------|
| 343 | | 631 | RS-4 | | KANE | 24 | 21 |
| | 1 | ГС-16 | ; | CONTRACT | NO. | 50Y61 | |
| FED. R | OAD DIST. | NO. 1 | ILLINOIS | FED. A | ID PROJECT | | |



- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
- 7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

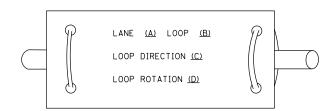
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

| FILE NAME = | USER NAME = PencePL | DESIGNED - | REVISED - R. MIRS 09-15-97 | | ARTERIAL ROAD | F.A.P. SECTION | COUNTY TOTAL SHEET SHEETS NO. |
|---------------------------------------|------------------------------|------------|--------------------------------|------------------------------|--|-------------------------------------|-------------------------------|
| c:\pw_work\pwidot\pencepl\d0402371\Di | st9td.dgn | DRAWN - | REVISED - R. MIRS 12-11-97 | STATE OF ILLINOIS | | 343 631RS-4 | KANE 24 22 |
| | PLOT SCALE = 100.0000 '/ in. | CHECKED - | REVISED -T. RAMMACHER 02-02-99 | DEPARTMENT OF TRANSPORTATION | INFORMATION SIGN | TC-22 | CONTRACT NO. 60Y61 |
| | PLOT DATE = 7/11/2014 | DATE - | REVISED - C. JUCIUS 01-31-07 | | SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. | FED. ROAD DIST. NO. 1 ILLINOIS FED. | |

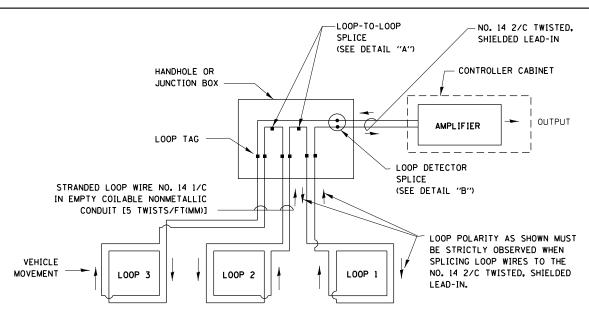
LOOP DETECTOR NOTES

- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- 4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- 6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

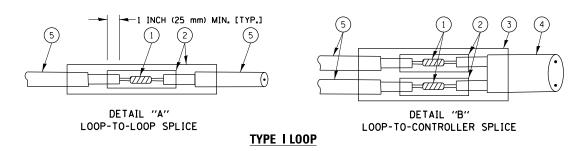


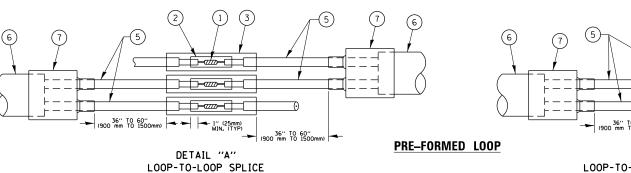
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

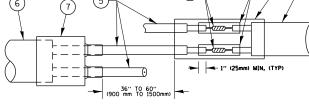
- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE. THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.





LOOP DETECTOR SPLICE

- (1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.



DETAIL "B" LOOP-TO-CONTROLLER SPLICE

- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR 7 BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

KANE 24 23 CONTRACT NO. 60Y61

| FILE NAME = | USER NAME = PencePL | DESIGNED - | DAD | REVISED - DAG 1-1-14 | | | DISTRICT ONE | F.A.P. | SECTION | COUNTY |
|---|-------------------------------|------------|----------|----------------------|------------------------------|-------------|--|-----------|--------------------------------|---------|
| c:\pw_work\pwidot\pencepl\d0402371\Dist | Std.dgn | DRAWN - | BCK | REVISED - | STATE OF ILLINOIS | | | 343 | 631RS-4 | KANE |
| | PLOT SCALE = 100.0000 ' / in. | CHECKED - | DAD | REVISED - | DEPARTMENT OF TRANSPORTATION | | STANDARD TRAFFIC SIGNAL DESIGN DETAILS | | TS-05 | CONTRAC |
| | PLOT DATE = 7/11/2014 | DATE - | 10-28-09 | REVISED - | | SCALE: NONE | SHEET NO. 2 OF 7 SHEETS STA. TO STA. | FED. ROAD | D DIST. NO. 1 ILLINOIS FED. AI | |

LOOPS NEXT TO SHOULDERS PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER. PAVED OR NON-PAVED SHOULDER Ê (1.5 m) (1.8 m) (1.5 m) 1" (25 mm) UNI DUCT-TRENCHED TO E/P •• (3.0 m) (3.0 m) * = (600 mm)* * UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS. ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)

LEFT TURN LANES WITH MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH (PROTECTED / PERMITTED LEFT TURN PHASING) HANDHOLE LOCATION MAY HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD BLADOL TO ENESURE THAT WARRING! 814001 TO ENSURE THAT HANDHOLE TRENCHED 1" (25 mm) UNIT DUCT (3) * * * = (600 mm) STRAIGHT SAW CUTS PERPENDICULAR TO MEDIAN (TYP.) (3.6 m)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS

BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

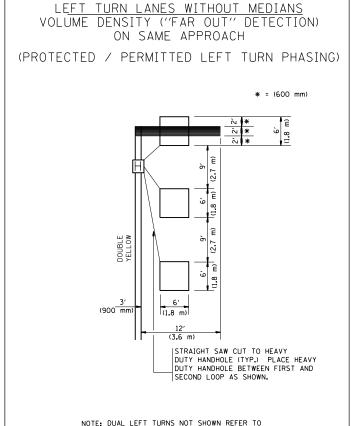
(900 mm)

REVISED

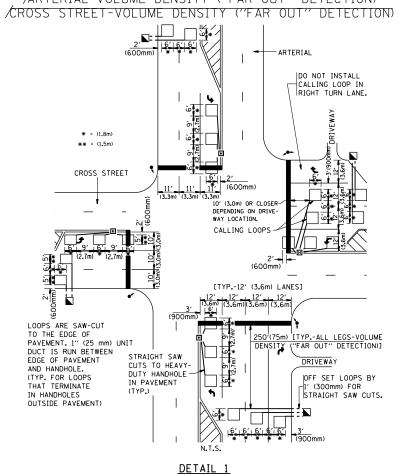
REVISED

REVISED

REVISED



NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT PLAN SHEET FOR DETECTOR LOOP REPLACEMENT ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION) CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)



N.T.S.

USER NAME = PencePL

PLOT DATE = 7/11/2014

PLOT SCALE = 100.0000 '/ in.

DESIGNED

ORAWN

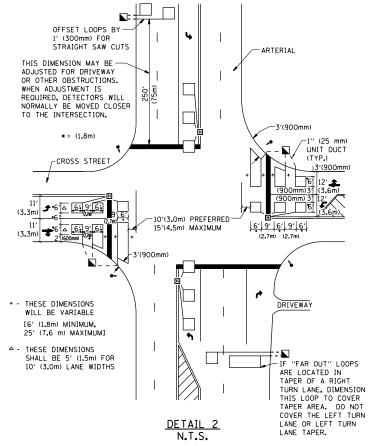
DATE

CHECKED

R.K.F.

FILE NAME :

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SCALE: NONE

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED,
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

| STATE OF ILLINOIS |
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| DEPARTMENT OF TRANSPORTATION |
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| DISTRICT | F.A.P. RTE. | SE | | | | |
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| DETA | 343 63 | | | | | |
| DLIA | | TS-C | | | | |
| SHEET NO. 1 | OF 1 | SHEETS | STA. | TO STA. | FED. R | OAD DIST. NO. 1 |

ECTION COUNTY 31RS-4 KANE 24 24 CONTRACT NO. 60Y61 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT