

42 **i**---

IMPROVEMENT BEGINS:

STA.: 35 + 59

OMISSION: STA. 61+07 TO STA. 65+70

1

WOODSTOC

HEBRON

ALDEN

HARTLAND

FRANKLINVILLE

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

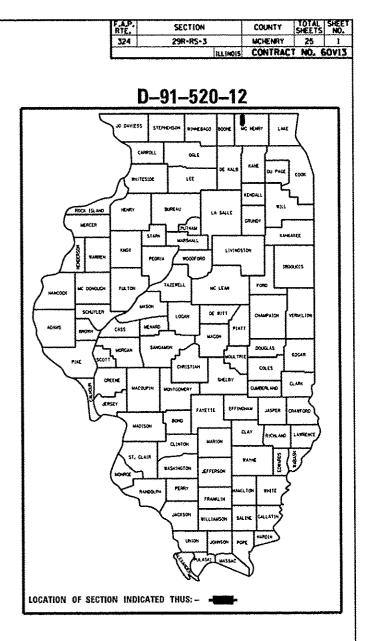
PROJECT ENGINEER: ALAIN MIDY (847) 221-3056 (847) 705-4178 **PROJECT MANAGER: ISSAM RAYYAN**

GROSS LENGTH = 5558 FT. = 1.0527 MILE NET LENGTH = 5095 FT. = 0.9650 MILE

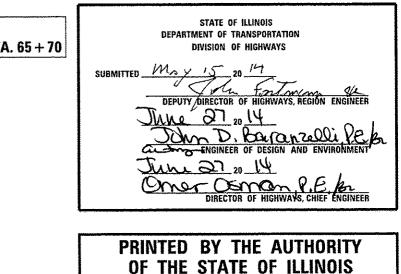
CONTRACT NO. 60V13

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2013 ADT = 15500 SPEED LIMIT = 35-45 MPH



INDEX OF SHEETS

| 1 | COVER SHEET | 482011-03 | HMA SHLD. ST |
|-------|---|-----------|------------------------------|
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| 5-7 | EXISTING AND PROPOSED TYPICAL SECTIONS | 701301-04 | LANE CLOSURE |
| 8-10 | ROADWAY AND PAVEMENT MARKING PLAN | 701306-03 | LANE CLOSURE FOR SPEEDS ≿ |
| 11-14 | DETECTOR LOOP REPLACEMENT DETAILS | | FUN SFEEDS Z |
| 15 | DETAILS FOR FRAMES AND LIDS ADJUSTMENT | 701311-03 | LANE CLOSURE |
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| 16 | PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22) | 701701-09 | URBAN LANE C |
| 17 | CURB OR CURB AND GUTTER REMOVAL AND | 701901-03 | TRAFFIC CONT |
| | REPLACEMENT (BD-24) | 886001-01 | DETECTOR LOO |
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| 19 | TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS. | | |
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| | ROADWAY RESURFACING | | |

STATE STANDARDS

| 482011-03 | HMA SHED, STRIPS/SHEDS, WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS |
|-----------|--|
| 701011-04 | OFF-RD MOVING OPERATIONS, 2L, 2W. DAY ONLY |
| 701301-04 | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS |
| 701306-03 | LANE CLOSURE, 2L. 2W, SLOW MOVING OPERATIONS DAY ONLY. FOR SPEEDS \geq 45 MPH |
| 701311-03 | LANE CLOSURE, 2L. 2W. MOVING OPERATIONS - DAY ONLY |
| 701502-06 | URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE |
| 701701-09 | URBAN LANE CLOSURE, MULTILANE INTERSECTION |
| 701901-03 | TRAFFIC CONTROL DEVICES |
| 886001-01 | DETECTOR LOOP INSTALLATIONS |
| 886006-01 | TYPICAL LAYOUTS FOR DETECTIONS LOOPS |

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 REQUIRED),

THE CITY OF HARVARD.

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

THE ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE INSTALLATION OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

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.

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 IDOT ARTERIAL DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) TOS-4151 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 11/2 INCHES WHERE THE SPEED LIMIT IS 40 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH. WITH WRITTEN APPROVAL OF 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) OR A NOTCHED LONGITUDINAL WEDGE IS USED.

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

LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

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

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

ALL PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE IMPROVEMENT ACCORDING TO DISTRICT 1 TYPICAL PAVEMENT MARKING.

| FILE NAME = | USER NAME = rozagom | DESIGNED - | REVISED - | | IND | EX OF SHEETS | STATE S | STANDARDS & | GENERAL NOTES | F.A.P. RTE. | SECTION | COUNTY TOTAL SHEE |
|---|------------------------------|------------|-----------|------------------------------|-------|--|---------|-------------|-----------------|----------------|---------------|-------------------|
| ci/p=_mork/p=;dot/rategam/dQ312823/0152 | 12-ehi-plandign | DRAWN - | REVISED - | STATE OF ILLINOIS | | | | | 324 | 29R-RS-3 | NCHENRY 25 2 | |
| | PLOT SCALE + 100.0000 1/ 10. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | | U.S. ROUTE 14 (DIVISION ST.) FROM IL 23 TO BRINK ST. | | | ZJ IU BRINK SI. | | | CONTRACT NO. 60VI |
| Defouit | PLOT DATE = 4/17/2014 | DATE - | REVISED - | | SCALE | SHEET | OF | SHEETS STA. | TO STA. | | ILLINOIS FED. | ALD PROJECT |

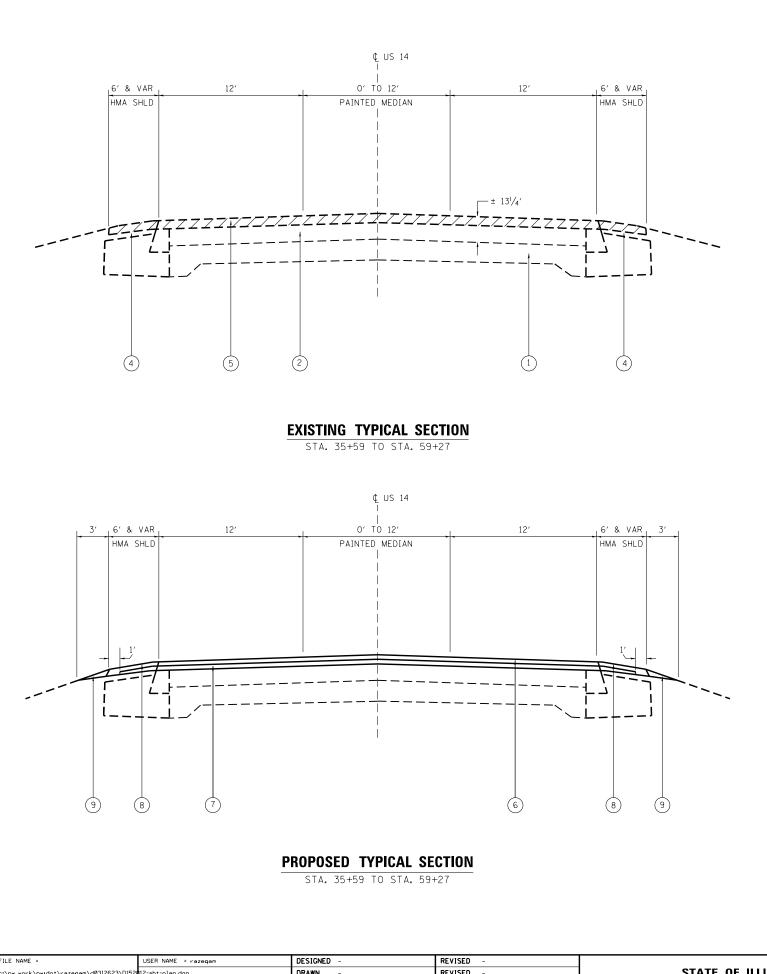
THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND

THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, TRAFFIC FIELD ENGINEER, AT (847) 715-8419 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

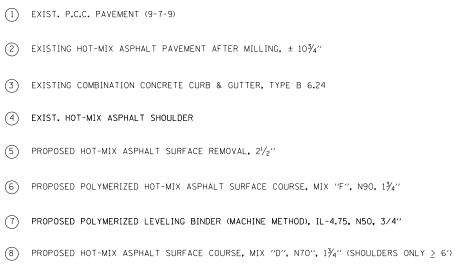
| | SUMMARY OF QUANTITIES | | | ļ | CONSTRUC | TION TYPE | CODE | | | SUMMA | RY OF QUANTITIES | |
|----------|---|-----------------------------|------------|--------------------------------|----------|-----------|------|-----------------------|-----------------------|-----------------------------|--------------------------------------|--------|
| | | | TOTAL | | | | | | | | | 1 |
| CODE NO | ITEM | UNIT | QUANTITIES | URBAN 0005 100% STATE | yr. | | | | CODE NO | | ITEM | UNIT |
| 21101615 | TOPSOIL FURNISH AND PLACE, 4" | SO YD | 11 | 11 | | | | | 67000400 | ENGINEER'S I | FIELD OFFICE. TYPE A | CAL NO |
| 25200110 | SODDING, SALT TOLERANT | SO YD | 12 IL | 11 | | | | | 67100100 | MOBILIZATION | 4 | L SUN |
| 40600400 | MIXTURE FOR CRACKS, JOINTS, AND Flangeways | TON | 48 | 48 | | | | | 70102622 | TRAFFIC CONT STANDARD 70 | TROL AND PROTECTION, 1502 | l sum |
| 40600827 | POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4,75, N50 | TON | 1290 | 1290 | | | | | 70102635 | TRAFFIC CON STANDARD 70 | TROL AND PROTECTION. 1701 | L SUM |
| 40600895 | CONSTRUCTING TEST STRIP | EACH | 2 | 2 | | | | | 70300100 | SHORT TERM F | PAVEMENT MARKING | FOOT |
| 40600982 | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT | SO YD | 265 | 265 | | | | | 70300210 | TEMPORARY PA | AVEMENT MARKING LETTERS AND | 50 FT |
| 40603340 | HOT-WEX ASPHALT SURFACE COURSE, WEX "D", NTO | TON | 608 | 608 | | | | | 70300220 | TEMPORARY PI | AVEMENT MARKING - LINE 4" | FOOT |
| 40603595 | POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE.MIX "F". N90 | TON | 2525 | 2525 | | | | | 70300240 | TEMPORARY P | AVEMENT MARKING - LINE 6" | F001 |
| 42001300 | PROTECTIVE COAT | SO YD | 22 | 22 | | | | | 70300250 | TENPORARY PA | AVEMENT MARKING - LINE 8" | FOOT |
| 44000159 | HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2" | SO YD | 32191 | 32191 | | | | | 70300260 | TEMPORARY PI | AVENENT MARKING - LINE 12" | FOOT |
| 44201798 | CLASS D PATCHES. TYPE I. 13 INCH | 50 YD | 20 | 20 | | | | | 70300280 | TEMPORARY PJ | AVEMENT MARKING - LINE 24" | FOOT |
| 44201803 | CLASS D PATCHES, TYPE II, 13 INCH | SO YD | 150 | 150 | | | | | 70301000 | WORK ZONE PJ | AVEMENT MARKING REMOVAL | SO FT |
| 44201807 | CLASS D PATCHES, TYPE 111, 13 INCH | SO YD | 50 | 50 | | | | | * 78000100 | THERMOPLAST | IC PAVEMENT MARKING - SYMBOLS | SO FT |
| 44201809 | CLASS D PATCHES, TYPE IV. 13 INCH | 50 10 | 150 | 150 | | | | | * 78000200 | | IC PAVEMENT MARKING - LINE 4" | FOOT |
| | | | | | | | | | ^ | | | |
| 48102100 | AGGREGATE WEDGE SHOULDER, TYPE B | TON | 222 | 222 | | | | | * 78000400 | THERMOPLAST | IC PAVEMENT WARKING - LINE 6" | FOOT |
| 60300105 | FRAMES AND GRATES TO BE ADJUSTED | EACH | 4 | 4 REVISED | | | | | * 78000500 | THERMOPLAST | IC PAVEMENT MARKING - LINE 8" | FOOT |
| | epene03/2523-0/520/2-64-ploten DR PLOT SCALE + 0000000 */ In. CT | RAWN - HECKED - ATE - | | REVISED REVISED REVISED | • • | | | STATE OF AENT OF T | ILLINOIS RANSPORTA | TION | SUMMARY SCALE: SHEET NO. 1 OF 2 S | |

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| TOTAL QUANTITIES | URGAN | | | | | | |
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| 370 | 370 | | | | | | |
| | L | <u></u> | F.A.P. RTE. | SEC | I T (ON | COUNTY | TOTAL SHEET HEETS NO. |
| ITIES | | | 324 | | RS-3 | MCHENRY | 25 3 NO. 60V13 |
| . T(|) STA. | | FED. 8 | DAD 0157. NO. 1 | ILLINDIS FED. AL | 2 PROJECT | (1+00 100. |

| | SUMMARY OF QUANTITIES | | | | C | ONSTRUCT | ION TYPE | CODE | | 1 | SUMMARY (| F QUANTITIES | | | | | ONSTRUCT | ION TYPE | CODE | + |
|-------------|---|---------|---------------------|--|---|----------|---------------------------------------|----------|------------|-----------|---------------------------------------|---------------------|------------|---------------------|---------------|----------------------|------------------|-----------------|-------------------------------|-----------|
| CODE NO | ITEM | UNI T | TOTAL QUANTITIES | URBAN 0005 100% | | | | | | CODE NO | | ITEM | UNIT | TOTAL OUANTITIES | U 86 AN | | | | | |
| | | | | STATE | | | | | | | | | | | 100% STATE | | | | | |
| 78000600 | THERMOPLASTIC PAVEMENT MARKING - LINE 12" | F00T | 720 | 720 | | | | | | | | | | | | | | | | |
| 78000650 | THERMOPLASTIC PAVEMENT WARKING - LINE 24" | FOOT | 315 | 315 | | | | | | | | | | | | | | | | |
| | | | | | | | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | | | | |
| 78100100 | RAISED REFLECTIVE PAVEMENT MARKER | EACH | 306 | 306 | | | | | | | | | | | | | | | | |
| | RAISED REFLECTIVE PAVEMENT MARKER | | | | | | | | | | | | | | | | | - | | |
| 78300200 | REMOVAL | EACH | 306 | 306 | | | | | | | | | | | | | | | | |
| 88600600 | DETECTOR LOOP REPLACEMENT | FOOT | 1593 | 1593 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| ×2020110 | GRADING AND SHAPING SHOULDERS | UNIT | 50 | 50 | | | | | | | | | | | | | | | | |
| | | Douted | 21006 | 21096 | | | | | | | | | | | | | | | | <u> </u> |
| x4060110 | BITUMINOUS MATERIALS (PRIME COAT) | POUND | 21096 | 21030 | | ····· | | | | | | | | | | | | | | |
| x6030310 | FRAMES AND LIDS TO BE ADJUSTED (SPECIAL) | EACH | 8 | 8 | | | | | | | | | | | * | | | | | |
| | | | | | | | | | | | | | - | | | | | | | |
| Z0004562 | COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT | FOOT | 65 | 65 | | | | | | ļ | | | | | | | | | | |
| Z0030850 | TEMPORARY INFORMATION SIGNING | SO FT | 180 | 180 | | | | | | | | | | | | | | | | |
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| | NOCOTALTY TTEMS | | | | | | | 1 | | | · · · · · · · · · · · · · · · · · · · | | | | - | | | | | |
| 2 | * SPECIALTY ITEMS | ICNED - | l | REVISED | L | L | 1 | <u> </u> | | 1 | lT | | 1 | <u> </u> | <u> </u> | F,A.P | | TION | CONTY | TOTAL SHE |
| FILE NAME = | 00mr0031262310152012-sm-plon 190 DRA | 111N - | | REVISED | - | | ĺ | \$ | STATE OF I | LLINOIS | | | / OF A11-1 | ITIFO | | F,A,P RTE, 324 | 298 | -85-3 | COUNTY MCHENRY CONTRACT | 25 4 |
| | PLDT SCALE + 100,0000 1/ In. CHE | CRED - | | REVISED | - | | 1 | DEPARTN | IENT OF TH | RANSPORTA | TION | | OF QUANT | | | | | | CONTRACT | NO. 60VI |
| | PLOT DATE = 4/0/2014 DAT | E - | | REVISED | - | | | | | | SCA | EI SHEET NO. 2 OF 2 | SHEETS STA | <u>ا</u> | O STA | FED. | NOAD DIST. NO. 1 | ILLINDIS FED. A | D PROJECT | |



LEGEND



| (9) | PROPOSED | AGGREGATE | WEDGE | SHOULDER, | TYPE | В |
|-----|----------|-----------|-------|-----------|------|---|
|-----|----------|-----------|-------|-----------|------|---|

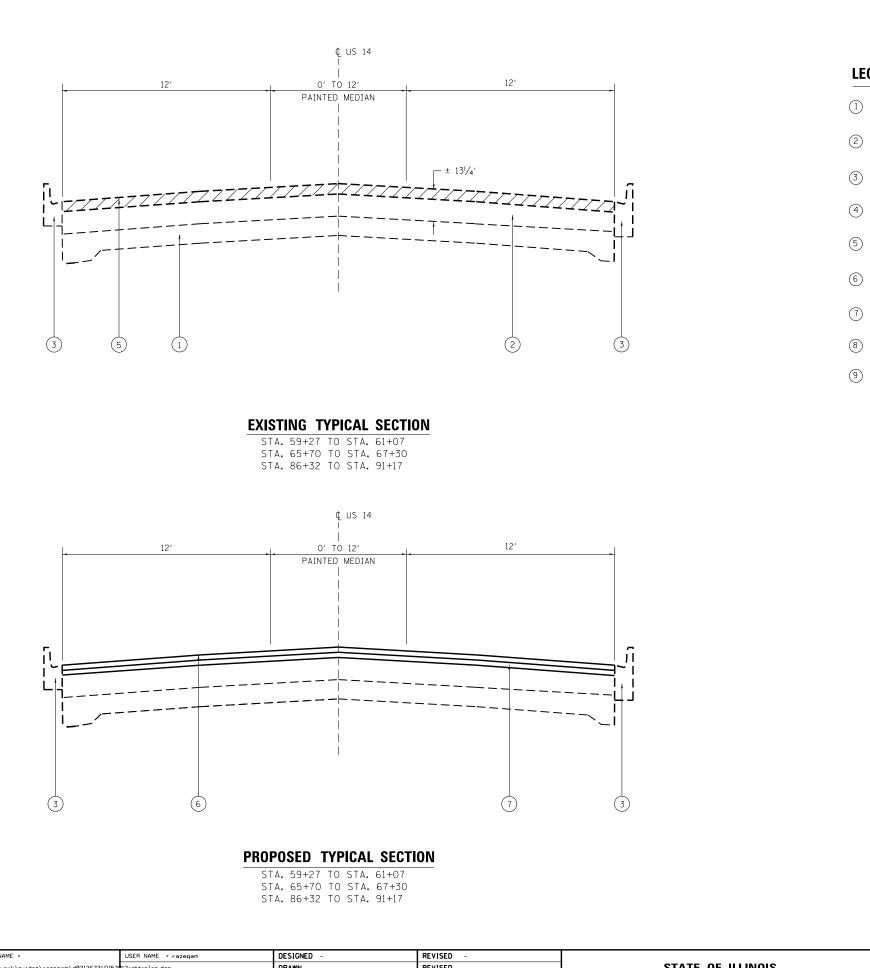
| HOT-MIX ASPHALT MIXTURE REQUIREMENTS | | QUALITY MANAGEMENT |
|---|----------------------|--------------------|
| MIXTURE TYPE | AIR VOIDS @ Ndes | PROGRAM (QMP) |
| POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 | 3.5% @ 50 GYR | QCP |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm) (SHOULDER WIDTH \geq 6') | 4.0% @ 70 GYR | QC /QA |
| POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,MIX "F", N90 (IL 9.5 mm) | 4.0% @ 90 GYR | QCP |
| CLASS D PATCHES, (HMA BINDER IL-19 mm) | 4.0% @ 70 GYR | AD/ JD |
| QMP DESIGNATION: Quality Control/Quality Assurance (QC/QA); Quality | Control for Performa | nce (QCP) |

NOTES

- 1.) THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LB/SY/IN.
- 3.) THE CONTRACTOR SHALL MILL FIRST, BEFORE PATCHING.

| F | ILE NAME = | USER NAME = razeqam | DESIGNED - | REVISED - | | ROUTE 14 (DIVISION ST.) FROM IL 23 TO BRINK ST. | F.A.P. | SECTION | COUNTY TOTAL | AL SHEET | |
|---|---|-------------------------------|------------|-----------|------------------------------|---|--------------------------------------|---------|---------------------------|--------------|-------|
| c | :\pw_work\pwidot\razeqam\d0312623\D1520 | 12-sht-plan.dgn | DRAWN - | REVISED - | STATE OF ILLINOIS | | EXISTING & PROPOSED TYPICAL SECTIONS | 324 | 29R-RS-3 | MCHENRY 25 | 5 |
| | | PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | SCALE: SHEET 1 OF 3 SHEETS STA. TO STA. | | | | CONTRACT NO. | 60V13 |
| C | efault | PLOT DATE = 4/17/2014 | DATE - | REVISED - | | | | | ILLINOIS FED. AID PROJECT | | |

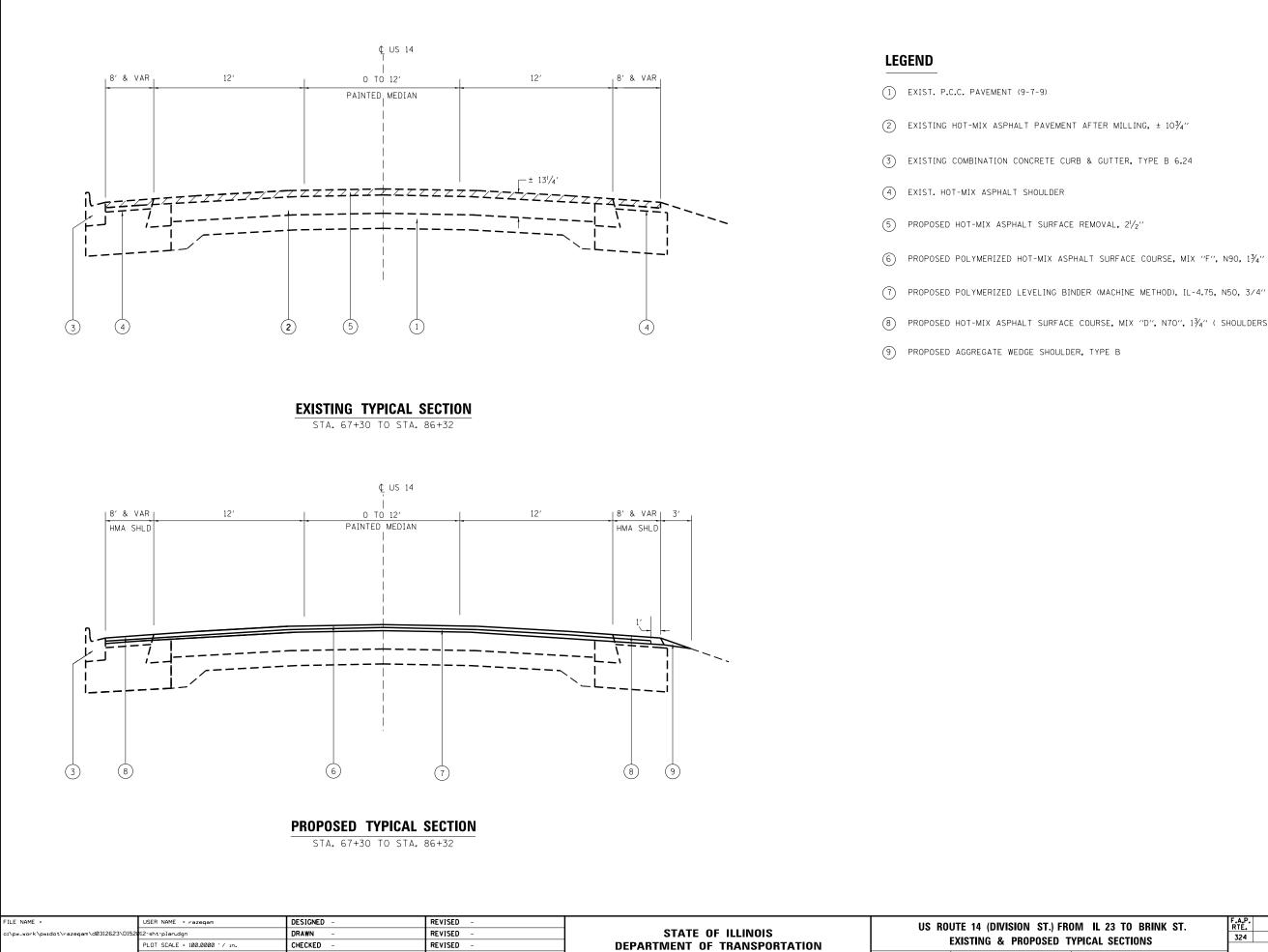
2.) THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY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



LEGEND

- (1) EXIST. P.C.C. PAVEMENT (9-7-9)
- (2) EXISTING HOT-MIX ASPHALT PAVEMENT AFTER MILLING, \pm 10 $\frac{3}{4}$ "
- (3) EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B 6.24
- (4) EXIST. HOT-MIX ASPHALT SHOULDER
- (5) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, $2^{1}/_{2}^{\prime\prime}$
- (6) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, $1\frac{3}{4}$ "
- (7) PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (8) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70", 1³/₄" (Shoulders only)
- (9) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B

| Γ | ILE NAME = | USER NAME = razeqam | DESIGNED - | REVISED - | | US ROUTE 14 (DIVISION ST.) FROM IL 23 TO BRINK ST. EXISTING & PROPOSED TYPICAL SECTIONS SCALE: SHEET 2 OF 3 SHEETS STA. TO STA. | | F.A.P. | SECTION | COUNTY TOTAL SHEFTS | SHEET NO. |
|---|--|------------------------------|------------|-----------|------------------------------|---|--|--------|-----------------|------------------------|--------------|
| | :\pw_work\pwidot\razeqam\d0312623\D152 | 12-sht-plan.dgn | DRAWN - | REVISED - | STATE OF ILLINOIS | | | 324 | 29R-RS-3 | MCHENRY 25 | 6 |
| | | PLOT SCALE = 100.0000 '/ in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | | | | | CONTRACT NO. 6 | JV13 |
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Default

PLOT DATE = 4/17/2014

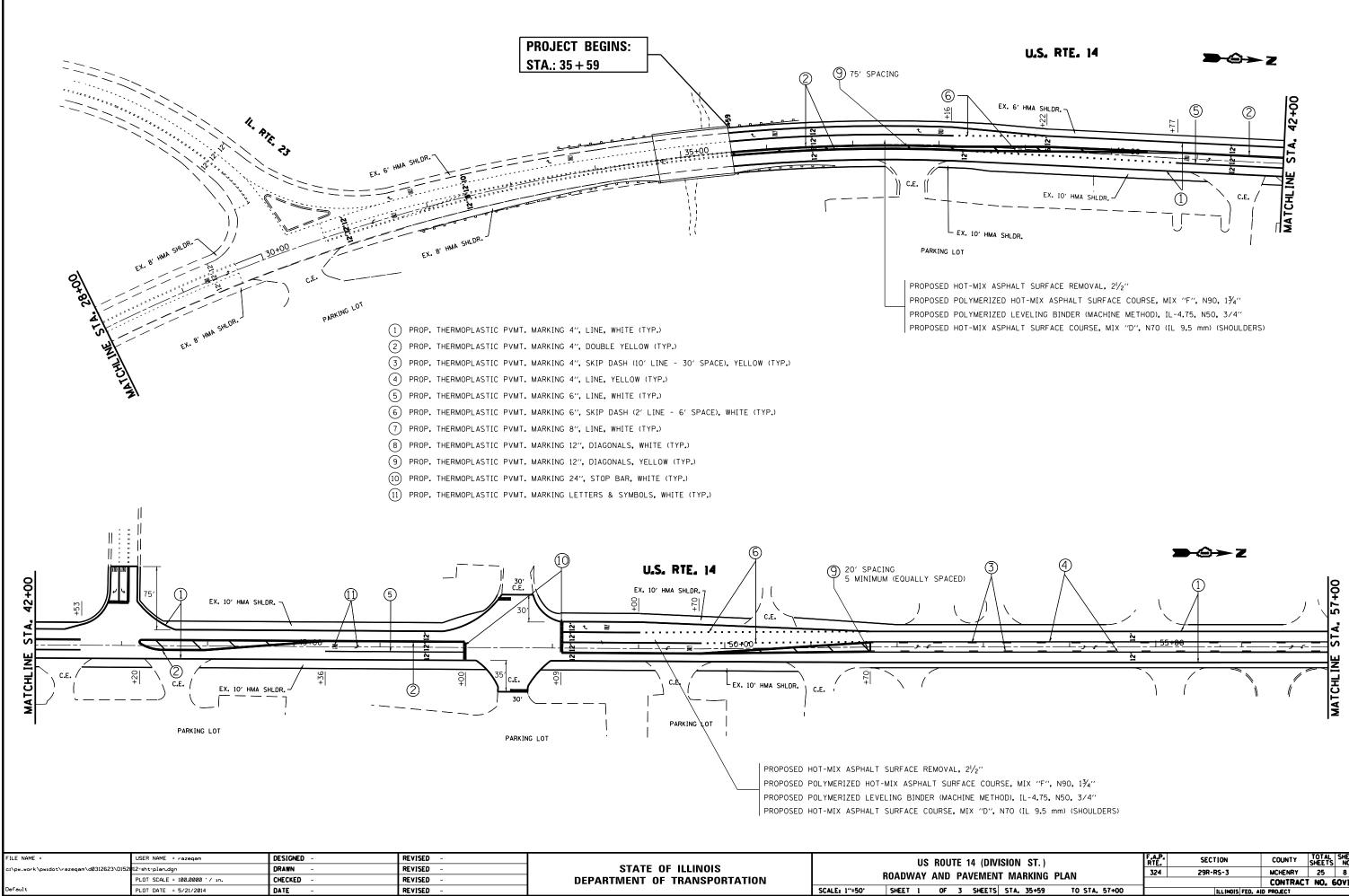
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REVISED

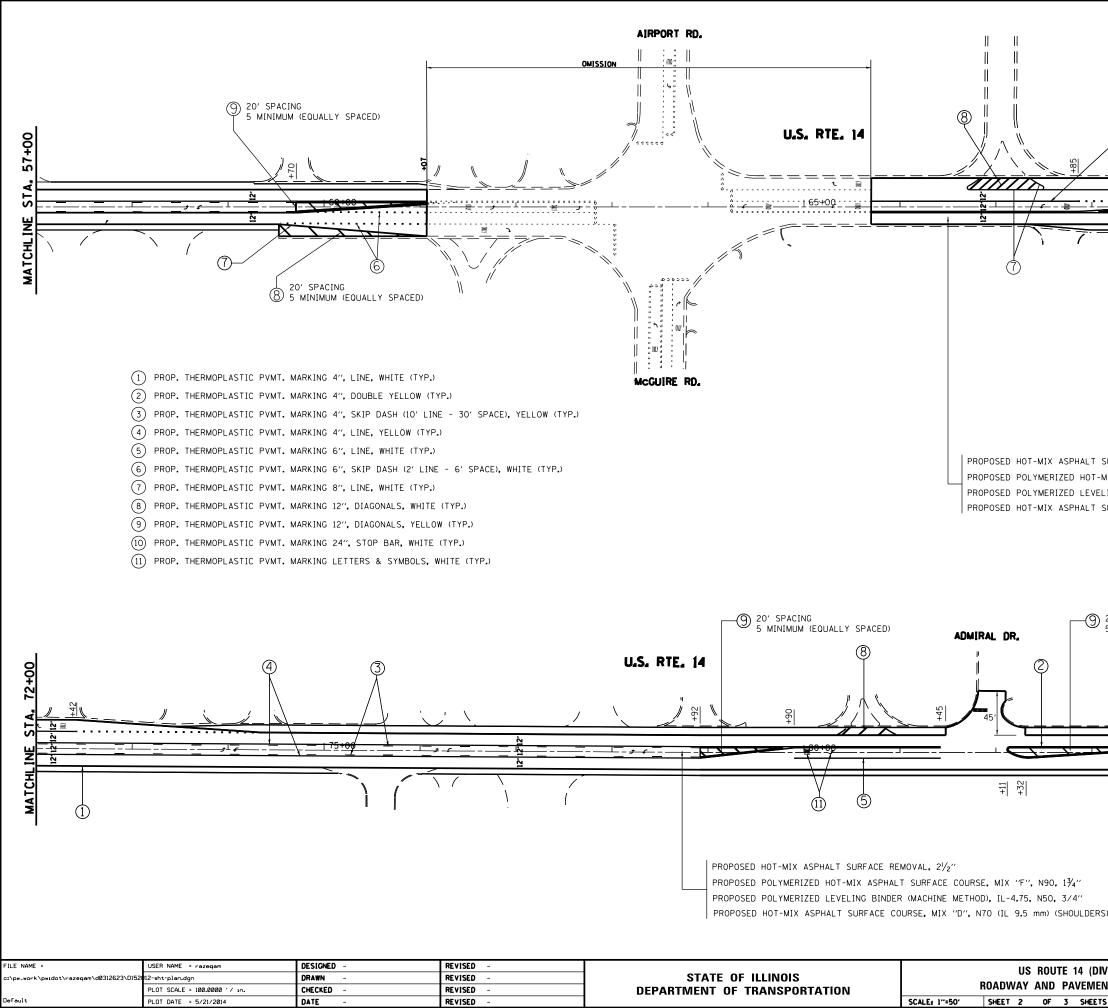
(8) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70", 1³/₄" (SHOULDERS ONLY)

| ROUTE 14 (DIVISION ST.) FROM IL 23 TO BRINK ST. | F.A.P. RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---------------|----------|----------|-----------------|--------------|
| EXISTING & PROPOSED TYPICAL SECTIONS | 324 | 29R-RS-3 | MCHENRY | 25 | 7 |
| | | | CONTRACT | NO. 6 | 50V13 |
| SHEET 3 OF 3 SHEETS STA. TO STA. | | | | | |

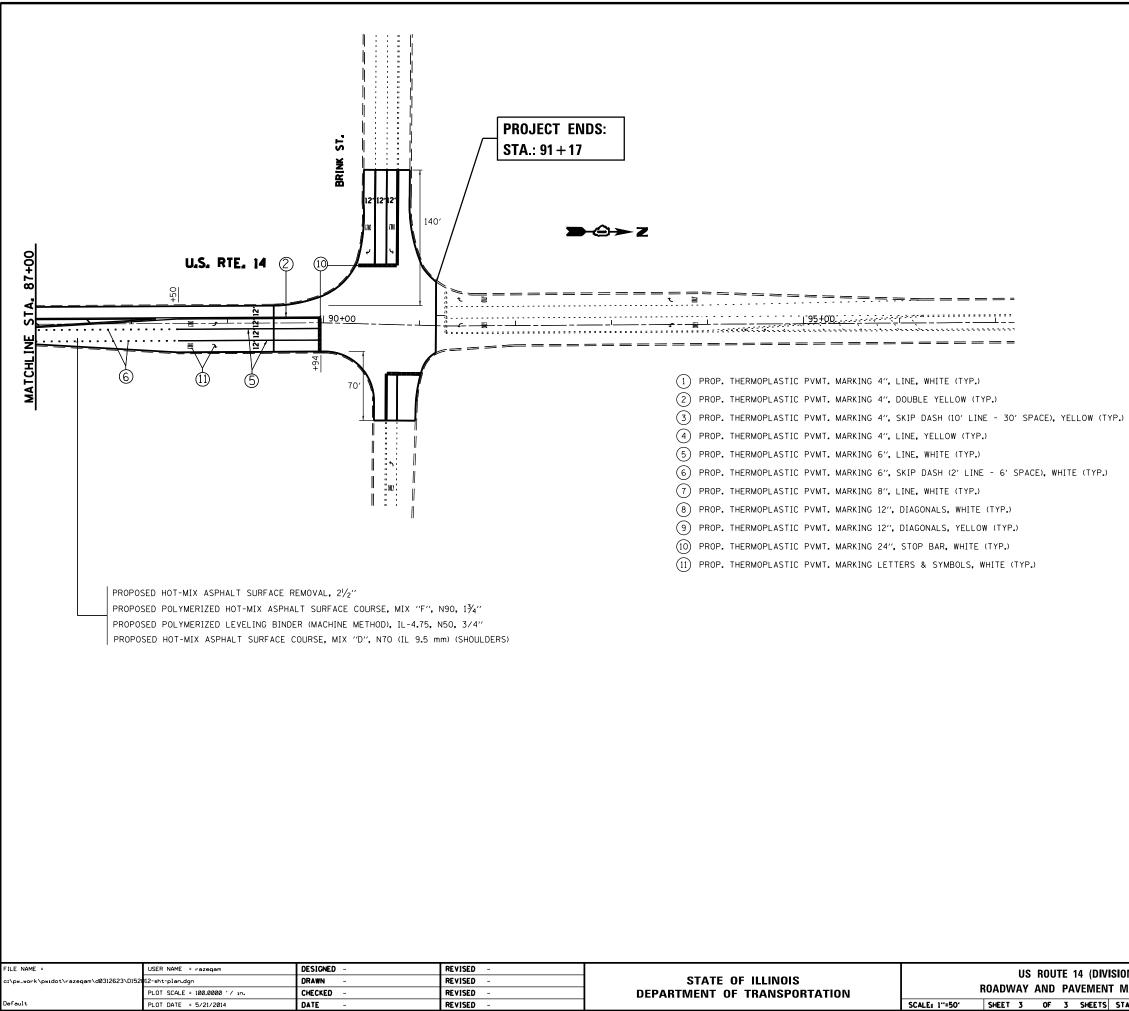
SCALE:



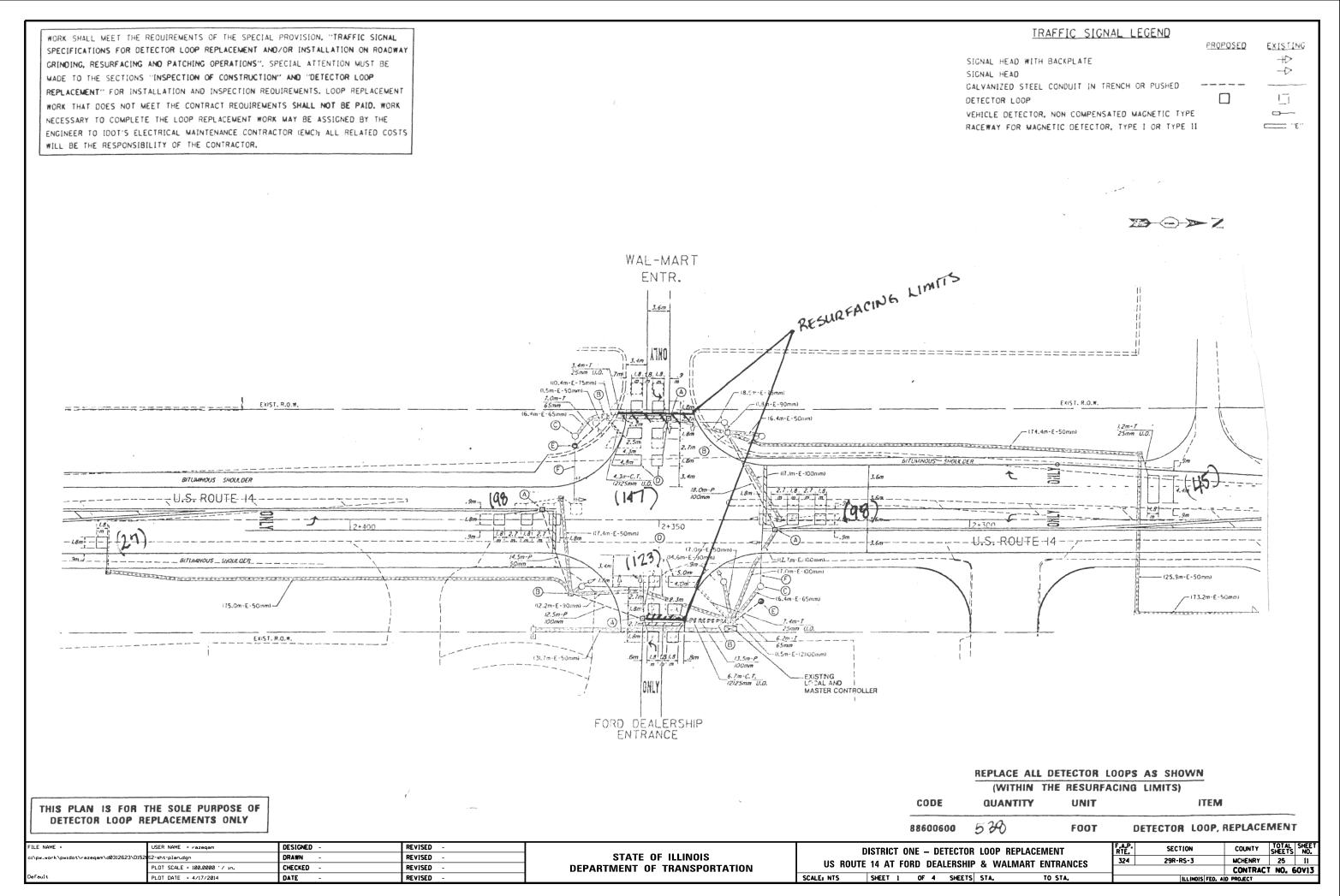
| IVISION ST.) | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------------|----------------|-----------------|------------|-----------------|--------------|
| NT MARKING PLAN | 324 | 29R-RS-3 | MCHENRY | 25 | 8 |
| | | | CONTRACT | NO. E | 60V13 |
| TS STA. 35+59 TO STA. 57+00 | | ILLINOIS FED. A | ID PROJECT | | |



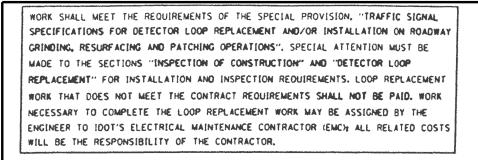
| S ()) () () () ()) () ()) ()) () () ()) ()) () ()) ()) () ()) ()) ()) ()) () () () ())) ())) ())))) ())))))))))))) | • • • • • • • • • • • • • • • • • • • | | | MATCHLINE STA. 72+00 |
|---|---------------------------------------|----------------------------------|------------------------------|--|
| SURFACE REMOVAL, 2 ¹ /2'' -MIX ASPHALT SURFACE COURSE, MIX ELING BINDER (MACHINE METHOD), IL-4 SURFACE COURSE, MIX ''D'', N7O (IL | 4.75, N5 | 0, 3/4″ | | |
|) 20' SPACING 5 MINIMUM (EQUALLY SPACED) | | | → Z | AATCHLINE STA. 87+00 |
| २ ८) | | 9 50' SPACING 5 MINIMUM (EQUA | | וכ |
| IVISION ST.) ENT MARKING PLAN | F.A.P. RTE. 324 | SECTION 29R-RS-3 | COUNTY MCHENRY CONTRAC | TOTAL SHEET SHEETS NO. 25 9 T NO. 60V13 |
| TS STA. 57+00 TO STA. 87+00 | | ILLINOIS FED. AI | | |

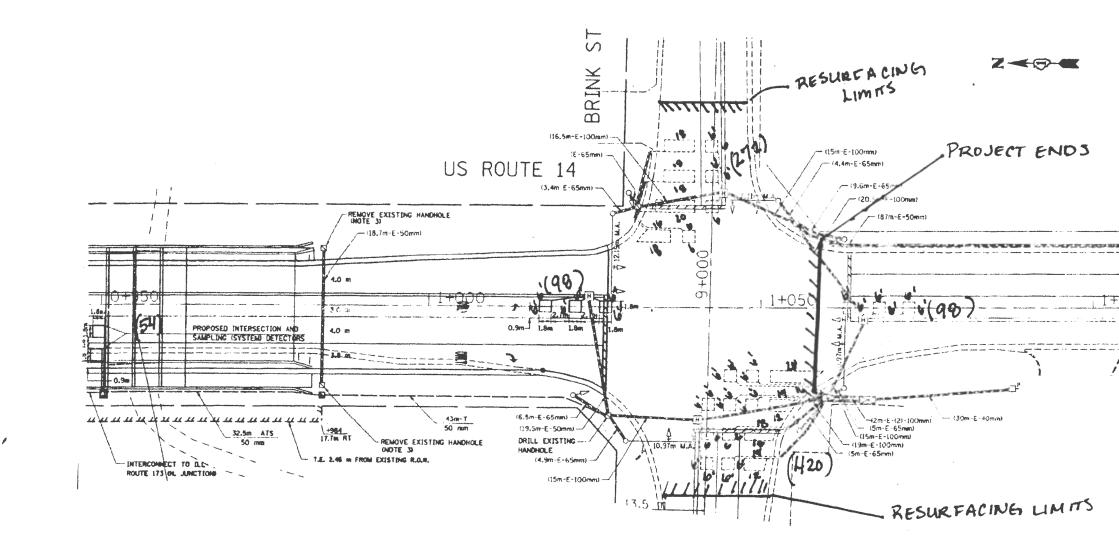


| IVISION ST.) | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------------|----------------|---------------------|------------|-----------------|--------------|
| ENT MARKING PLAN | | 29R-RS-3 MCHENRY 25 | | | |
| | | | CONTRACT | i no, e | 50V13 |
| TS STA. 87+00 TO STA. 91+17 | | ILLINOIS FED, A | ID PROJECT | | |



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|---|--|------------|-----------|------------------------------|---|---|--|--|
| FILE NAME = | USER NAME = razeqam | DESIGNED - | REVISED - | | DISTRICT ONE – DETECTOR LOOP REPLACEMENT | F.A.P. SECTION COUNTY TOTAL SHEET RTE. SHEETS NO. | | |
| c:\pw_work\pwidot\razeqam\d0312623\D152 | 112-sht-plan.dgn | DRAWN - | REVISED - | STATE OF ILLINOIS | US ROUTE 14 AT BRINK ST. | | | |
| | PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | US RUUIE 14 AI BRINK SI. | CONTRACT NO. 60V13 | | |
| Default | PLOT DATE = 4/17/2014 | DATE - | REVISED - | | SCALE: NTS SHEET 2 OF 4 SHEETS STA. TO STA. | ILLINOIS FED. AID PROJECT | | |

| TRAFFIC SIGNAL LEGEND | | |
|---|----------|-----------------|
| | PROPOSED | EXISTING |
| SIGNAL HEAD WITH BACKPLATE | | -+1> |
| SIGNAL HEAD | | $\neg \diamond$ |
| GALVANIZED STEEL CONDULT IN TRENCH OR PUSHED | | |
| DETECTOR LOOP | | |
| CHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE | | a |
| ACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II | | · · ٤ · · |
| | | |

REPLACE ALL DETECTOR LOOPS AS SHOWN

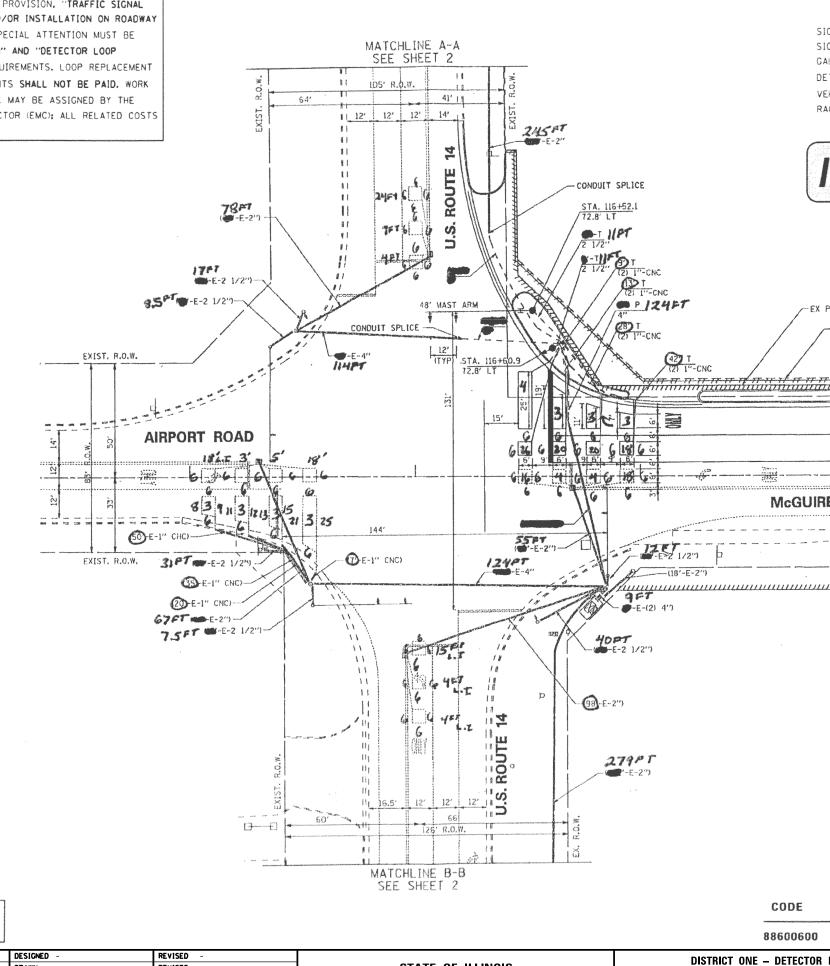
(WITHIN THE RESURFACING LIMITS)

QUANTITY UNIT

ITEM

QH2 DETECTOR LOOP, REPLACEMENT FOOT

WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

SCALE: NTS

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FILE NAME =

THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

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USER NAME = razegam

PLOT SCALE = 100.0000 '/ in.

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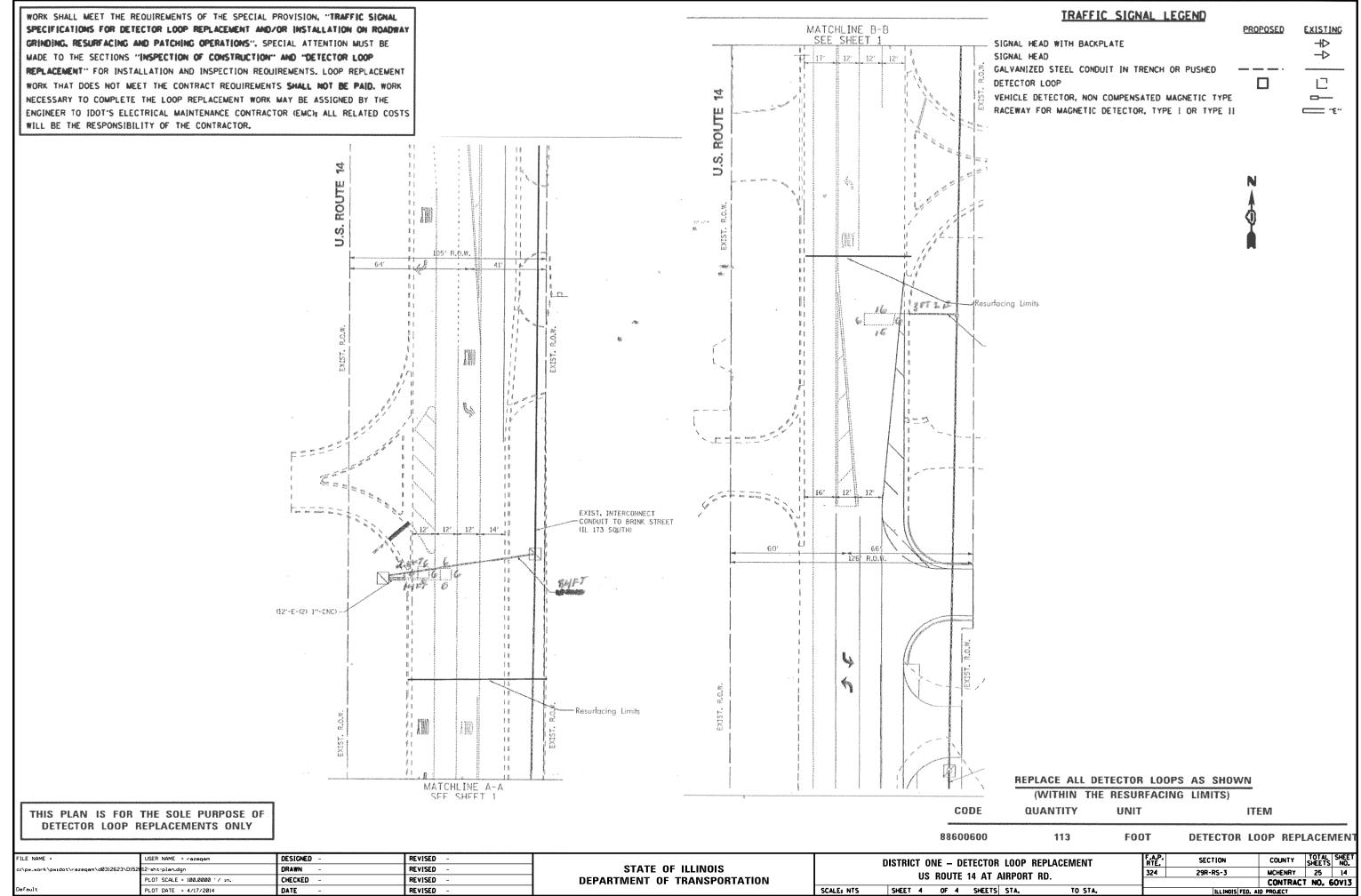
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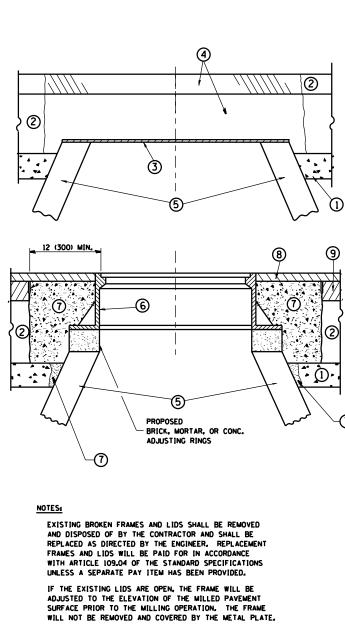
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| | | EHICLE DETECTOR | , NON COMPENS | ATED I | MAGNETIC TYPE | | | — |
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| | 88600600 | · 0 | FOOT | | DETECTOR | | | |
| DISTRICT ONE | | LOOP REPLACEM | | F.A.P. RTE. | SECTION | | COUNTY | TOTAL SHEET SHEETS NO. |
| | | 4 AT AIRPORT RD | | 324 | 29R-RS-3 | 0 | CONTRACT | 25 13 NO. 60V13 |
| SHEET 3 C |)F4 SHEETS | STA, T(| O STAL | | ILL INDIS | FED. AID PR | ROJECT | |



| REPLACE ALL DET | ECTOR LOOPS | AS SHOWN | | | |
|--------------------|----------------|------------|---------------------|-----------------|--------------|
| (WITHIN THE | RESURFACING | LIMITS) | | | |
| QUANTITY | UNIT | п | EM | | |
| 113 | FOOT | DETECTOR L | OOP REPL | ACEN | /ENT |
| R LOOP REPLACEMENT | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| AIRPORT RD. | 324 | 29R-RS-3 | MCHENRY CONTRACT | 25 NO, 6 | 14 60V13 |
| | | | | | |



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.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

| FILE NAME = | USER NAME = razeqam | DESIGNED - R. SHAH | REVISED - R. WIEDEMAN 05-14-04 | | | DETAILS FOR | F.A.P. SECTION | COUNTY TOTAL SHEET SHEETS NO. |
|---|------------------------------|--------------------|--------------------------------|------------------------------|-------------|--------------------------------------|--------------------------------|----------------------------------|
| c:\pw_work\pwidot\razeqam\d0312623\D152 | 112-sht-plan.dgn | DRAWN - | REVISED - R. BORO 01-01-07 | STATE OF ILLINOIS | | | 324 29R-RS-3 | MCHENRY 25 15 |
| | PLOT SCALE = 100.0000 '/ in. | CHECKED - | REVISED - R. BORO 03-09-11 | DEPARTMENT OF TRANSPORTATION | | | BD600-03 (BD-8) | CONTRACT NO. 60V13 |
| | PLOT DATE = 4/17/2014 | DATE - 10-25-94 | REVISED - R. BORO 12-06-11 | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS STA. TO STA. | FED. ROAD DIST. NO. 1 ILLINOIS | |

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 $1\frac{1}{2}$ (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 ENGINEER."

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 |
| 4 | PROPOSED CRUSHED STONE AND HMA SURFACE MIX | 0 |
| டு | EXISTING STRUCTURE | 9 PROPOSED HMA BINDER COURSE |

5 EXISTING STRUCTURE

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

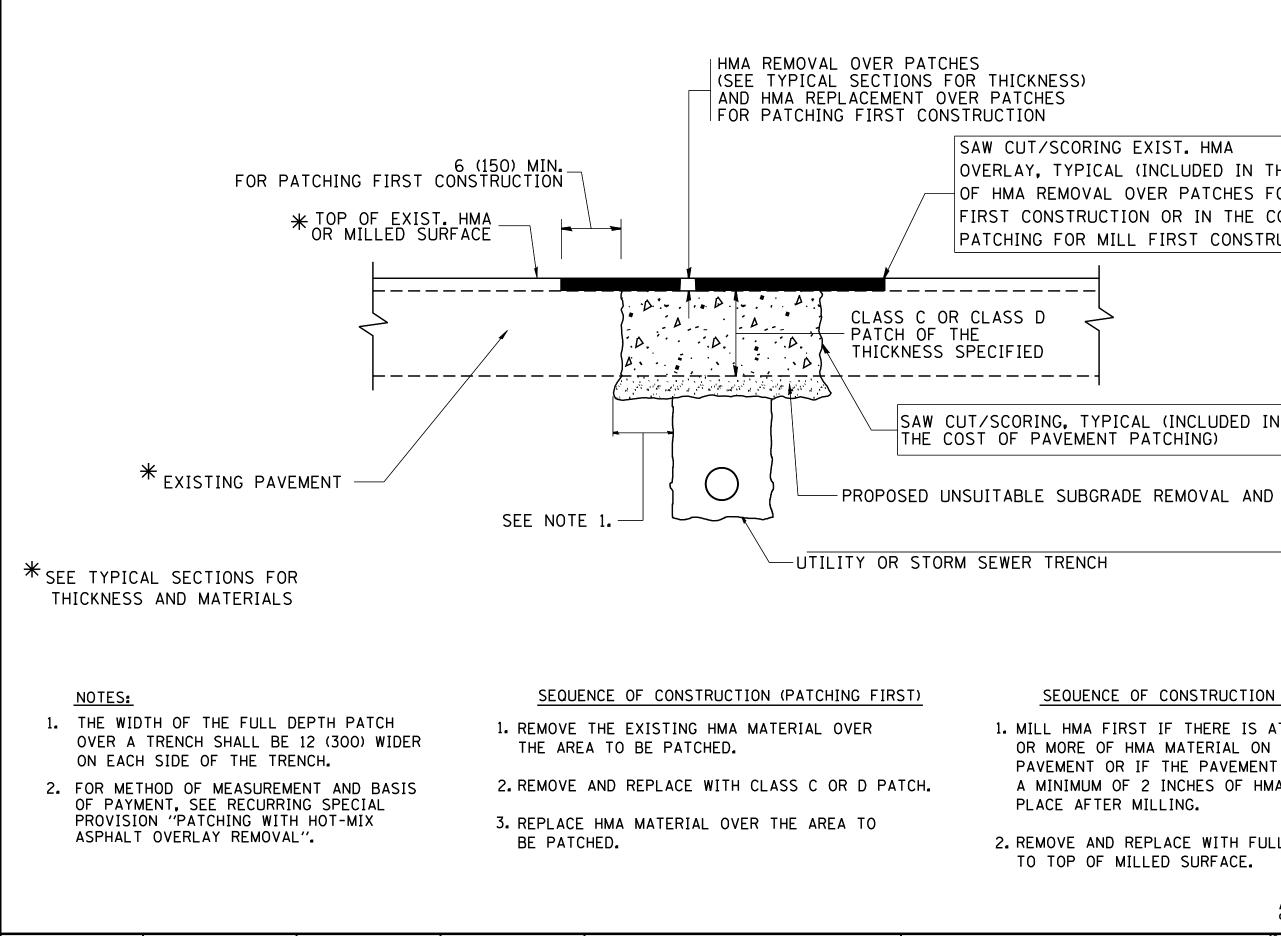
REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

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.

| | ALL | DIMENSIONS | ARE | IN | INCHES | (MILLIMETERS) | UNLESS | OTHERWISE | SHOWN | |
|--|-----|------------|-----|----|--------|---------------|--------|-----------|-------|--|
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(7)



| FILE NAME = | USER NAME = razeqam | DESIGNED - R, SHAH | REVISED - A. ABBAS 04-27-98 | | PAVEMENT PATCHING FOR | F.A.P. SECTION | COUNTY TOTAL SHEET |
|---|-------------------------------|--------------------|-----------------------------|------------------------------|--|-------------------------------------|--------------------|
| c:\pw_work\pwidot\razeqam\d0312623\D152 | 12-sht-plan.dgn | DRAWN - | REVISED - R. BORO 01-01-07 | STATE OF ILLINOIS | | 324 29R-RS-3 | MCHENRY 25 16 |
| | PLOT SCALE = 100.0000 ' / 10. | CHECKED - | REVISED - R. BORO 09-04-07 | DEPARTMENT OF TRANSPORTATION | HMA SURFACED PAVEMENT | BD400-04 (BD-22) | CONTRACT NO. 60V13 |
| | PLOT DATE = 4/17/2014 | 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 ILLINDIS FED. | AID PROJECT |

OVERLAY. TYPICAL (INCLUDED IN THE COST OF HMA REMOVAL OVER PATCHES FOR PATCHING FIRST CONSTRUCTION OR IN THE COST OF PAVEMENT PATCHING FOR MILL FIRST CONSTRUCTION).

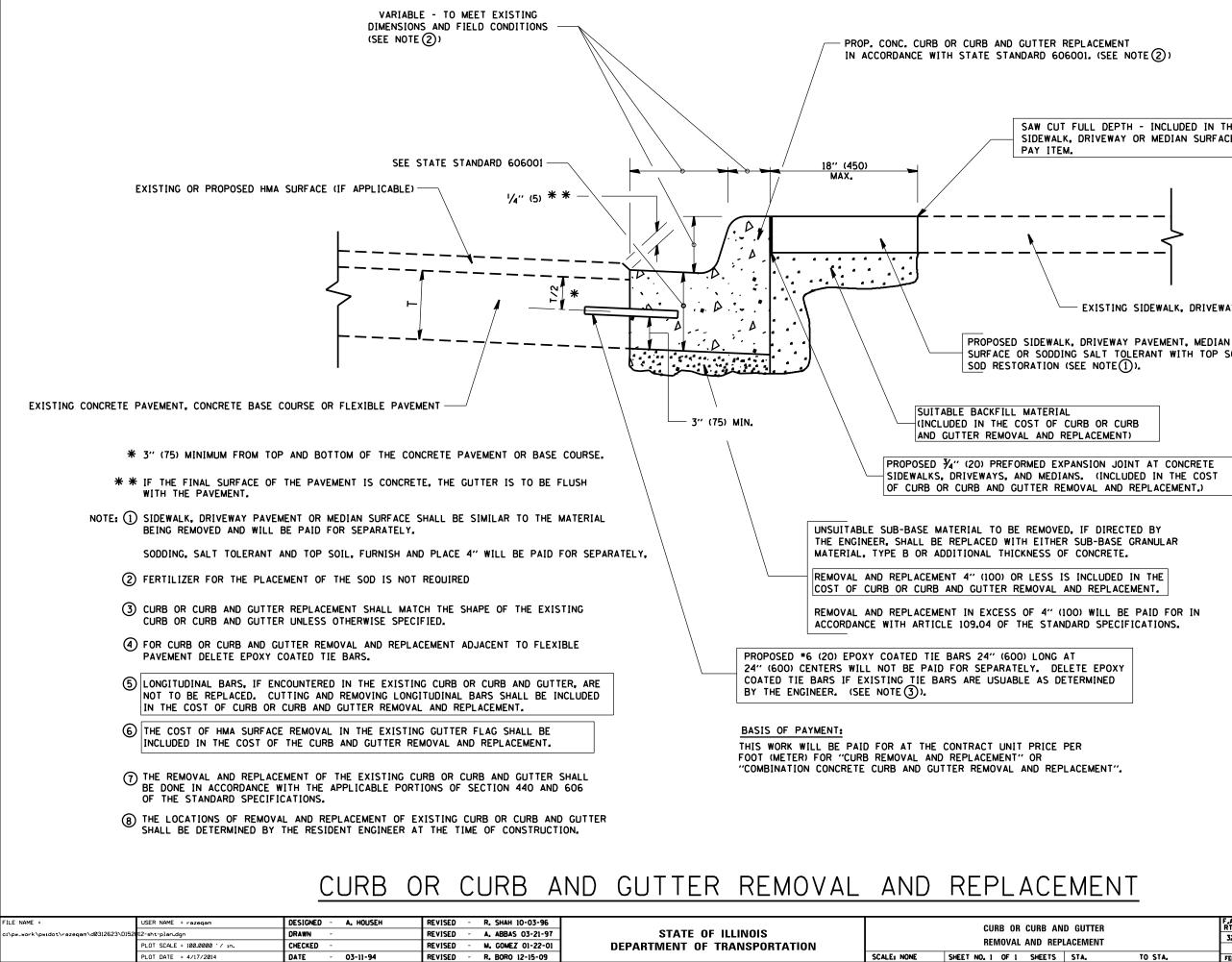
PROPOSED UNSUITABLE SUBGRADE REMOVAL AND REPLACEMENT

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST $4\frac{1}{2}$ 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

2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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



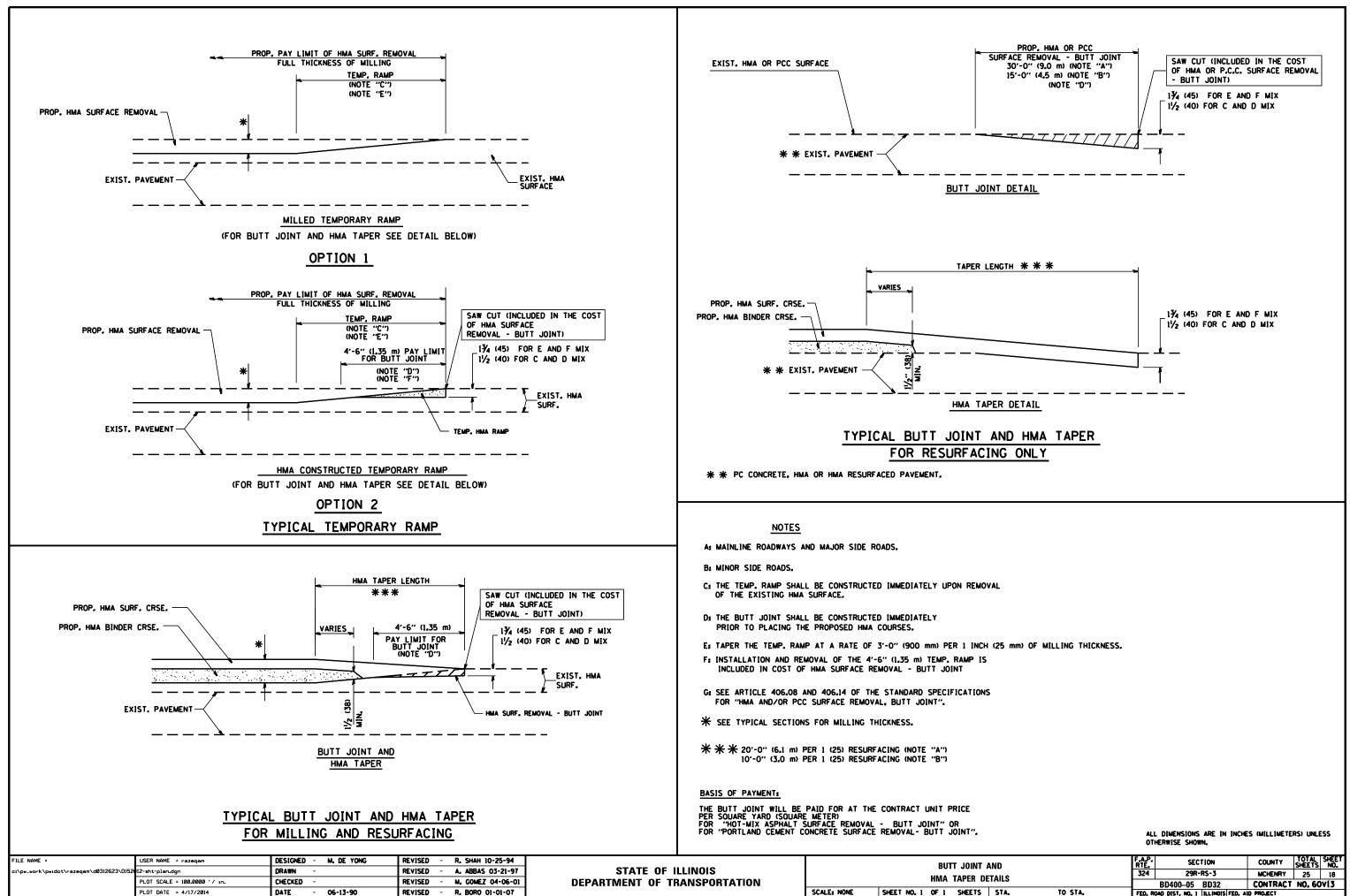
SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE (1).

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

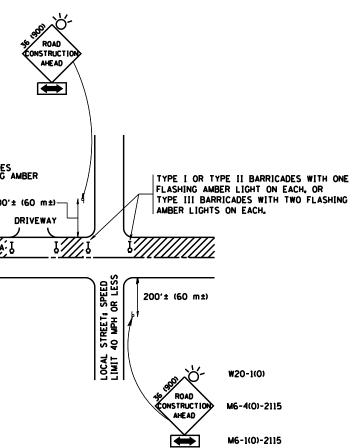
| ٩NI | D GUTTER | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | | |
|------------|----------|---------|-----------------------|---|--------|-----------------|--------------|--|--|
| EPLACEMENT | | 324 | 29R-RS-3 MCHENRY 25 1 | | | | | | |
| | | | BD600-06 (BD-24) | CONTRACT | NO. E | 50V13 | | | |
| , | STA. | TO STA. | FED. R | FED. ROAD DIST. NO. 1 ILLINDIS FED. AID PROJECT | | | | | |



| AND DETAILS | | F.A.P. RTE. | SECTION | | COUNTY | TOTAL SHEETS | SHEET NO. |
|----------------|---------|----------------|--------------------------|--------|-----------|-----------------|--------------|
| | | 324 | 29R-RS-3 | | MCHENRY | 25 | 18 |
| | | | BD400-05 BD32 | | CONTRACT | NO_ 60 | v13 |
| STA. | TO STA. | FED. R | DAD DIST, NO, 1 ILLINOIS | FED. A | D PROJECT | | |

| 15 (380) 21 (530) | TYPE III BARRICADE WITH TWO FLASHING LIGHTS ON EACH. 200 |
|---|---|
| | WORK AREA |
| | |
| | COLLECTOR COLLECTOR SPEED LIMIT> 40 MPH (60 km/h) BOUN ANT ROY ROY ROY ROY ROY ROY ROY ROY ROY ROY |
| NOTES: | ON THE SIDE ROAD OF DRIVEWAYS |
| | IMIT OF 40 MPH (60 km/h) OR LESS AS |
| SHOWN ON THE DRAWING AN O' ONE ROAD CONSTRUCTION | D AS DIRECTED BY THE ENGINEERS Ahead Sign 36 x 36 (900x900) with a flasher T Approximately 200' (60 m) in advance |
| | THE MAIN ROUTE SHALL BE PROTECTED BY TYPE II OR TYPE III BARRICADES, 1/3 OF THE CLOSED PORTION. |
| | IMIT GREATER THAN 40 MPH (60 km/h) AND AS DIRECTED BY THE ENGINEERS |
| | AHEAD SIGN 48 x 48 (12 m x 12 m) WITH A Approximately 500' (150 m) in Advance |
| | THE MAIN ROUTE SHALL BE PROTECTED BY BARRICADES, 1/2 OF THE CROSS SECTION |
| SIGNING AND THE WORK ZON | BETWEEN THE BEGINNING OF THE MAINLINE NE, A SINGLE HEADED ARROW (MG-1) SHALL OUBLE HEADED ARROW (MG-4). |
| | |

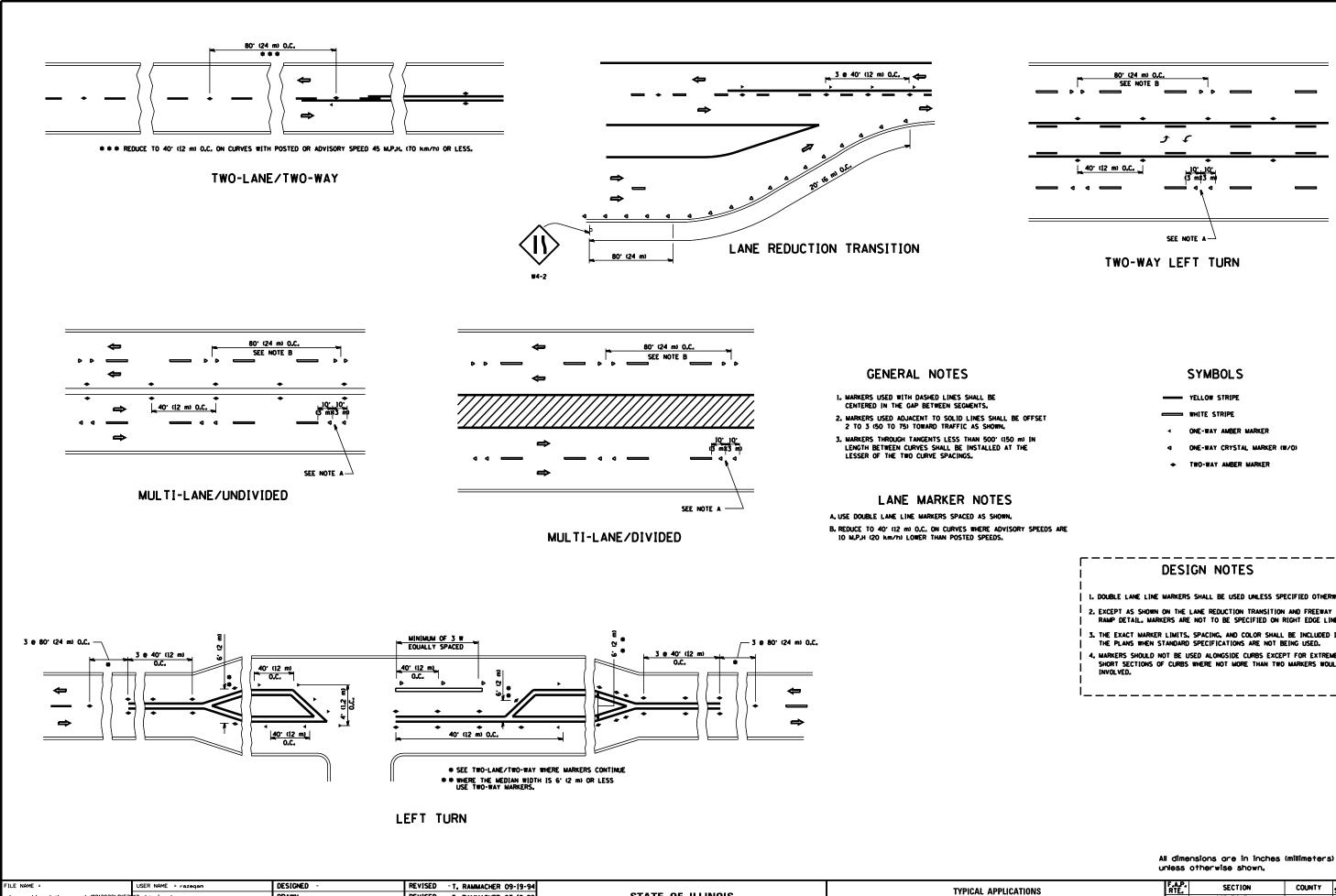
| FILE NAME = | USER NAME = razeqam | DESIGNED - LHA | REVISED - J. OBERLE 10-18-95 | | TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS | | F.A.P. SECTION | COUNTY TOTAL SHEET SHEETS NO. |
|---|-------------------------------|----------------|--------------------------------|------------------------------|--|--------------------------------------|-----------------------------------|----------------------------------|
| cs/pw_work/pwidot/razeqam/d0312623/D152 | 112-sht-plan.dgn | DRAWN - | REVISED - A. HOUSEH 03-06-96 | STATE OF ILLINOIS | | | 324 29R-RS-3 | MCHENRY 25 19 |
| | PLOT SCALE = 100.2155 ' / in. | CHECKED - | REVISED - A, HOUSEH 10-15-96 | DEPARTMENT OF TRANSPORTATION | | | TC-10 | CONTRACT NO. 60V13 |
| | PLOT DATE = 4/17/2014 | DATE - 06-89 | REVISED -T. RAMMACHER 01-06-00 | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS STA. TO STA. | FED. ROAD DIST. NO. 1 ILLINOIS FE | |



SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

- 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 | dime | ensions | ore | în | millimeters | (inches) |
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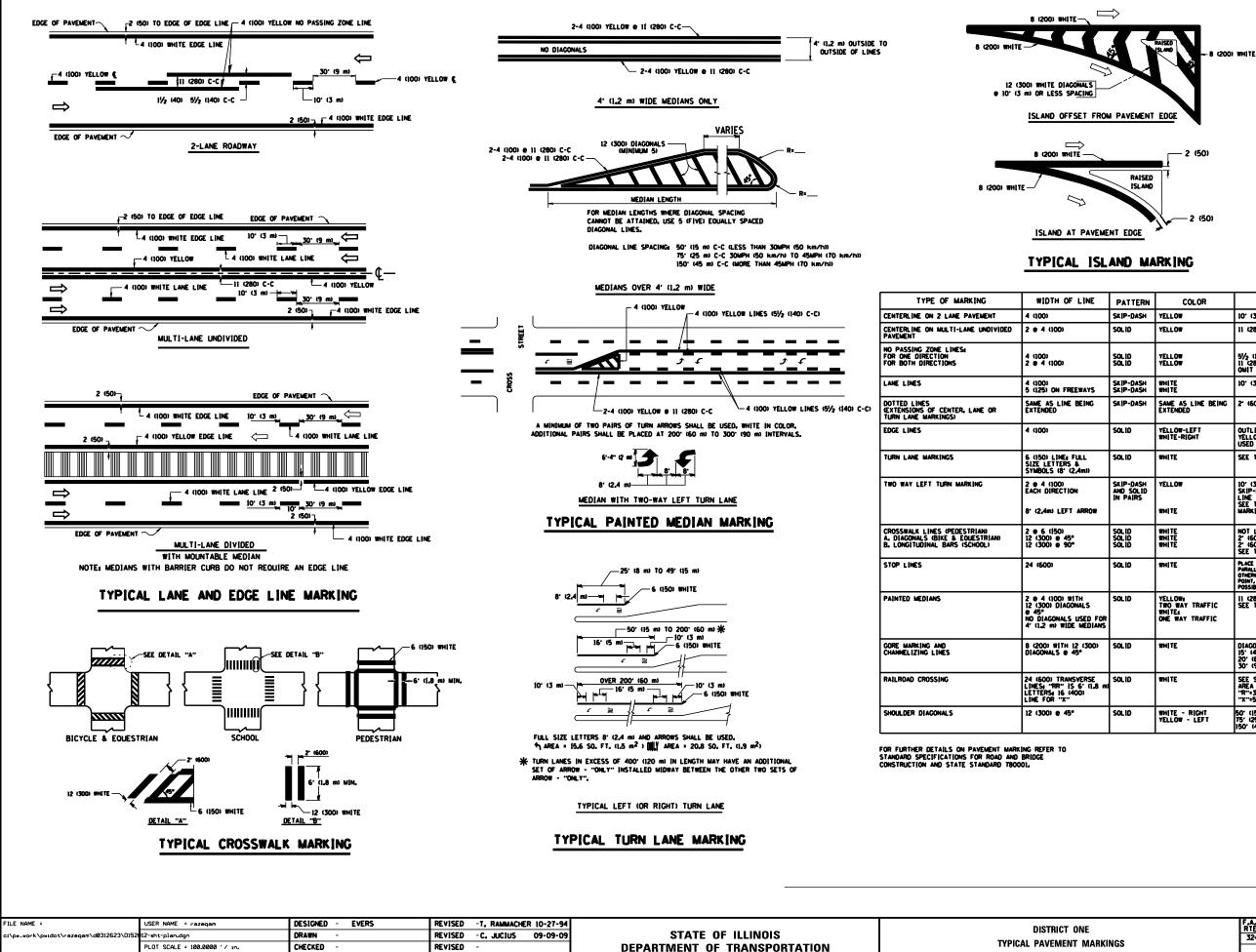
| FILE NAME = | USER NAME = razeqam | DESIGNED - | REVISED - T, RAMMACHER 09-19-94 | | | TYPICA | AL APPLICA | АΤ |
|---|------------------------------|------------|---------------------------------|------------------------------|-------------|-------------------|------------|----|
| c:\pw_work\pwidot\razeqam\d0312623\D152 | ll2-sht-plan.dgn | DRAWN - | REVISED - T. RAMMACHER 03-12-99 | STATE OF ILLINOIS | | | | |
| | PLOT SCALE = 100.0000 '/ 10. | CHECKED - | REVISED -T, RAMMACHER 01-06-00 | DEPARTMENT OF TRANSPORTATION | RAISED R | EFLECTIVE PAVEMEN | IT MARKER | łS |
| | PLOT DATE = 4/17/2014 | DATE - | REVISED - C. JUCIUS 09-09-09 | | SCALE: NONE | SHEET NO. 1 OF 1 | SHEETS | Ľ |

| | | YELLOW STRIPE |
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| BE OFFSET | _ | WHITE STRIPE |
| iom) IN | • | ONE-WAY AMBER MARKER |
| T THE | ٩ | ONE-WAY CRYSTAL MARKER (W/O) |
| | • | TWO-WAY AMBER MARKER |
| | | |

I. 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.

| All | dîme | ensions | are | în | inches | (millimeters) |
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| CATIONS | | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|--------------------------------|-----------|-----------------|--------------|
| ERS (SNOW-PLOW RESISTANT) | 324 | 29R-RS-3 | MCHENRY | 25 | 20 |
| | | TC-11 | CONTRACT | NO. 60 | V13 |
| STA. TO STA. | FED. RC | AD DIST. NO. 1 ILLINDIS FED. A | D PROJECT | | |



PLOT DATE = 4/17/2014

DATE

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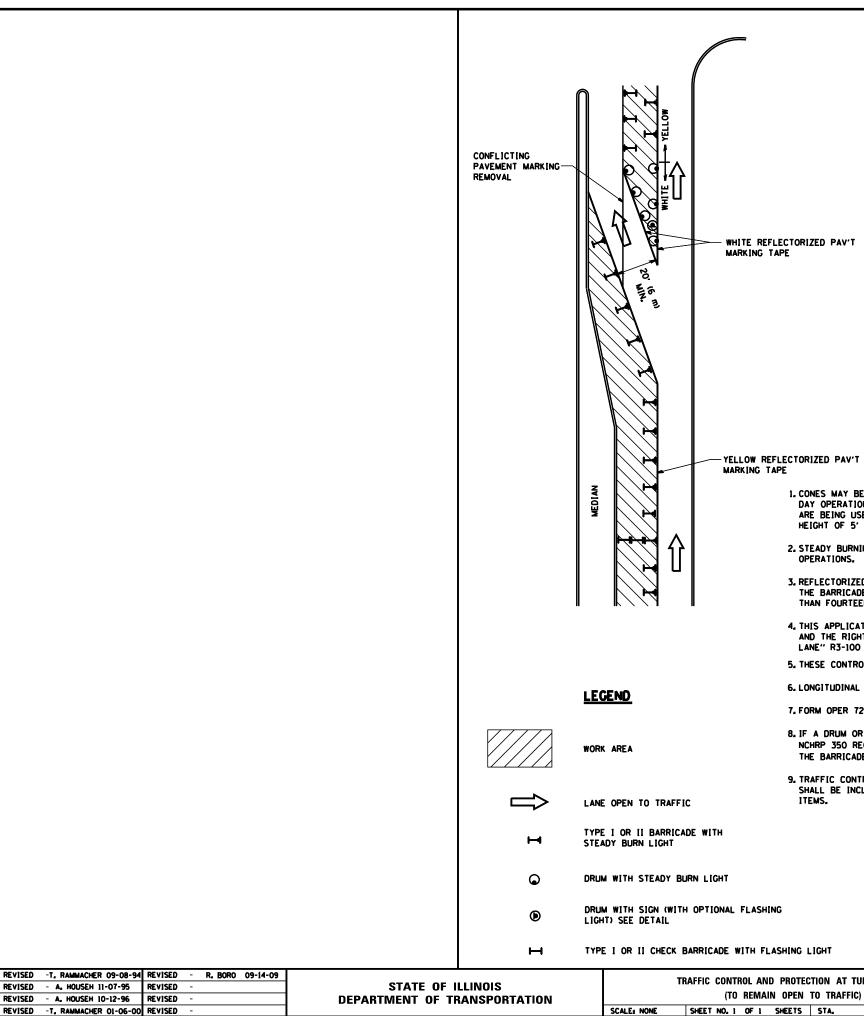
REVISED

SCALE: NONE SHEET NO. 1 OF 1 SHEETS

| LINE | PATTERN | COLOR | SPACING / REMARKS |
|-----------------------------------|------------------------------------|---|---|
| | SKIP-DASH | YELLOW | 10" (3 m) LINE WITH 30" (9 m) SPACE |
| | SOLID | YELLOW | 11 (280) C-C |
| | SOL ID SOL ID | YELLOW YELLOW | 5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C Omit Skip-Dash Centerline Between |
| EWAYS | SKIP-DASH SKIP-DASH | WHITE WHITE | 10" (3 m) LINE WITH 30" (9 m) SPACE |
| BEING | SKIP-DASH | SAME AS LINE BEING Extended | 2" (600) LINE WITH 6" (1,8 m) SPACE |
| | SOLID | YELLOW-LEFT WHITE-RIGHT | OUTLINE MOUNTABLE MEDIANS IN YELLOW, EDGE LINES ARE NOT USED NEXT TO BARRIER CURB |
| ULL & "Ami) | SOLID | WHITE | SEE TYPICAL TURN LANE MARKING DETAIL |
| ARROW | SKIP-DASH AND SOLID IN PAIRS | YELLOW | 10' 13 m) LINE WITH 30' 19 m) SPACE FOR SKIP-DASH 375 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL |
| | SOLID SOLID SOLID | WHITE WHITE WHITE | NOT LESS THAN 6' (1,8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS. |
| | SOL ID | WHITE | PLACE 4 (1.2 m) IN ADVANCE OF AND PARALLEL TO CHOSSMALL, IF PRESENT, OTHERWISE, PLACE AT DESIDES STOPPING POINT, PARALLEL TO CHOSSMOAD CENTERLINE, WHERE POSSIBLE |
| TH NALS USED FOR MEDIANS | SOLID | YELLOWS TWO WAY TRAFFIC WHITES ONE WAY TRAFFIC | 11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING. |
| 2 (300) 5° | SOL ID | 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 (DVER 45MPH (70 km/h)) |
| VERSE 6' (1,8 m) 00) | SOL ID | WHITE | SEE STATE STANDARD 780001 AREA OF; "R"=3.6 50, FT, 10,33 m ²) EACH "X"=54.0 50, FT, 15.0 m ²) |
| | 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) T0 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h)) |

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

| ONE | | F.A.F RTE. | SEC | TION | COUNTY | TOTAL SHEETS | SHEET NO. | | | |
|------------|------------|---------------|-------|---|----------|-----------------|--------------|----|--|--|
| т | T MARKINGS | | 324 | 324 29R-RS-3 MCHENRY | | | | 21 | | |
| I WARKINGS | | | TC-13 | ; | CONTRACT | NO. 60 | V13 | | | |
| | STA. | TO STA. | FED. | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | | | |



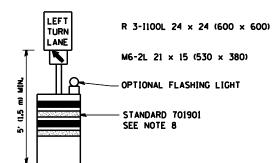
FILE NAME =

c:\pw_work\pwidot\razeqam\d0312623\D152**4**12-sht-plan.dgr

USER NAME = razegam

PLOT DATE = 4/17/2014

PLOT SCALE = 99.9998 '/ in.



GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).

2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.

3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.

4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.

5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.

6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.

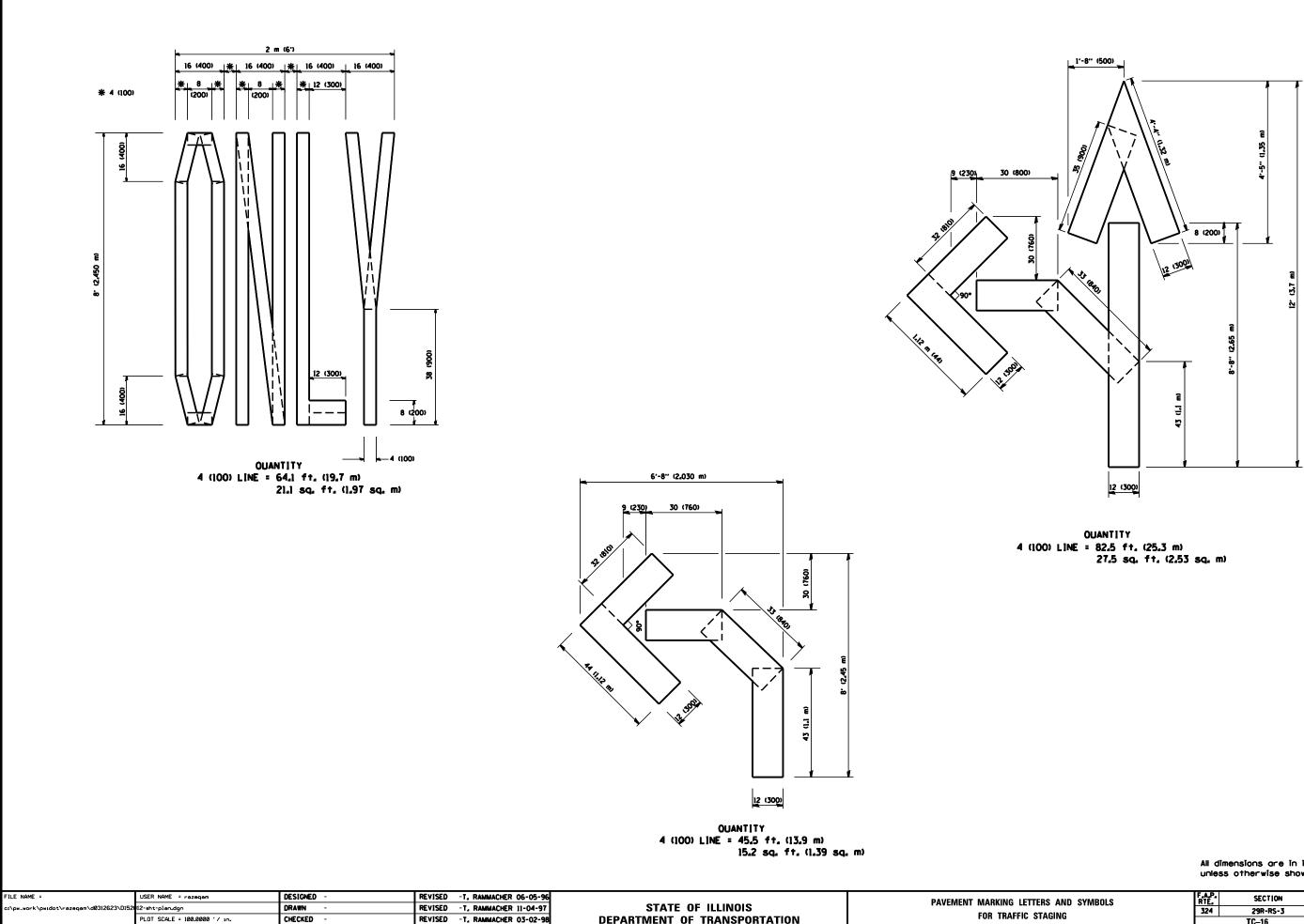
7. FORM OPER 725 IS REQUIRED.

8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHR 350 PREQUIREMENTS.

9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR

> All dimensions are in inches (millimeters) unless otherwise shown,

| ECTION AT TURN BAYS To Traffic) | | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|------------------------------------|--------|----------------------------------|-----------|-----------------|--------------|
| | | 29R-RS-3 | MCHENRY | 25 | 22 |
| | | TC-14 | CONTRACT | NO. 60 | IV13 |
| STAL TO STAL | FED, R | OAD DIST. NO. 1 ILLINDIS FED. AI | D PROJECT | | |

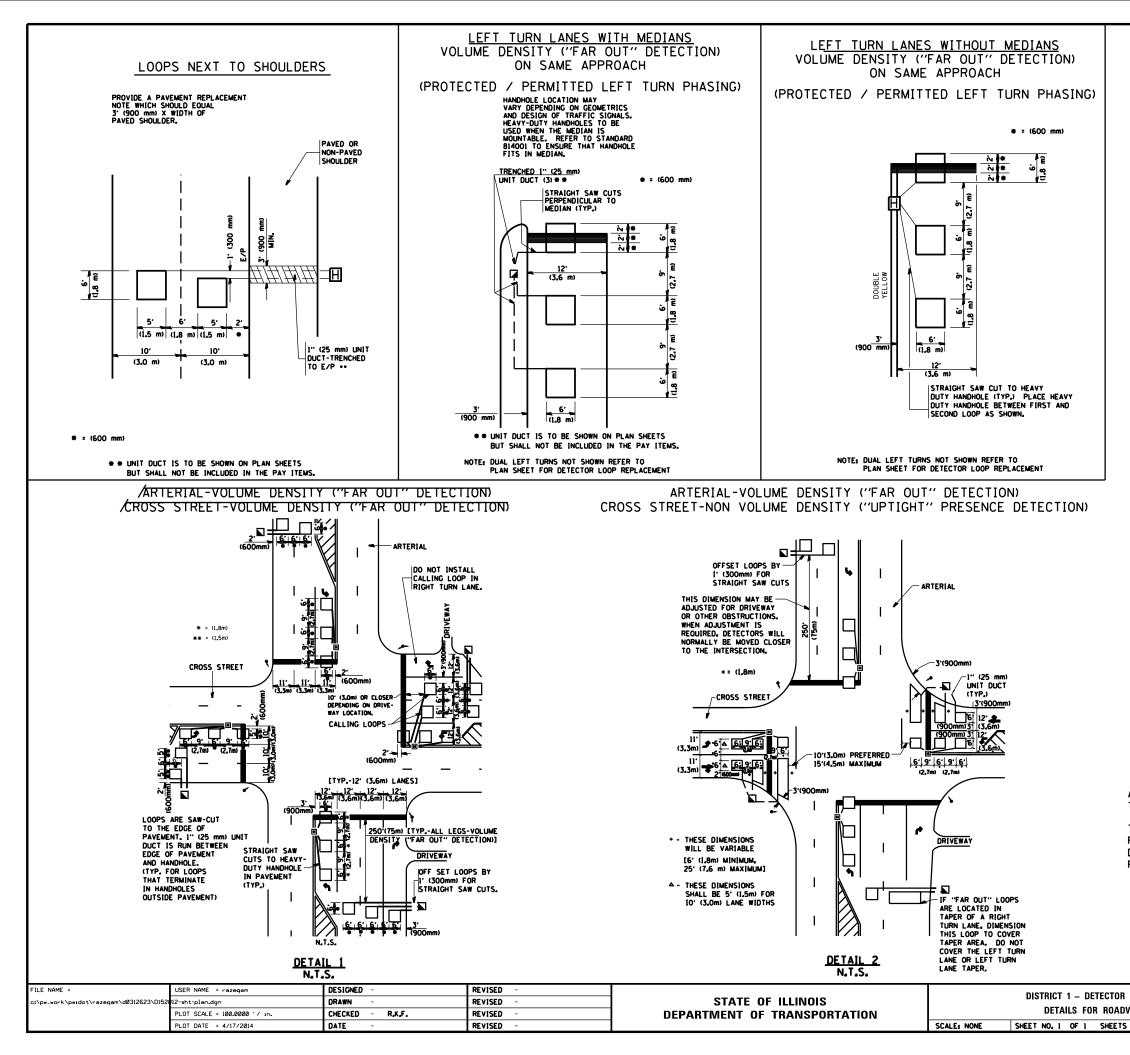


FOR TRAFFIC ST **DEPARTMENT OF TRANSPORTATION** REVISED -T, RAMMACHER 03-02-98 DATE - 09-18-94 REVISED - E. GOMEZ 08-28-00 SCALE: NONE SHEET NO. 1 OF 1 SHEETS

PLOT DATE = 4/17/2014

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

| FERS AND SYMBOLS Staging | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------------|------|---------|---|----------|--------------------|-----------------|--------------|
| | | | 324 | 29R-RS-3 | MCHENRY | 25 | 23 |
| | | | | TC-16 | CONTRACT NO. 60V13 | | |
| | STA. | TO STA. | FED. ROAD DIST. NO. 1 ILLINDIS FED. AID PROJECT | | | | |



NOTES

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED. SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * 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 <u>ALL</u> 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 REOUIRES 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. <u>EACH</u> ONE OF THESE TYPE OF LOOPS REQUIRES A <u>SEPARATE</u> TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A <u>SEPARATE</u> 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 \underline{ALL} SIGNAL LAYOUT PLAN SHEETS.

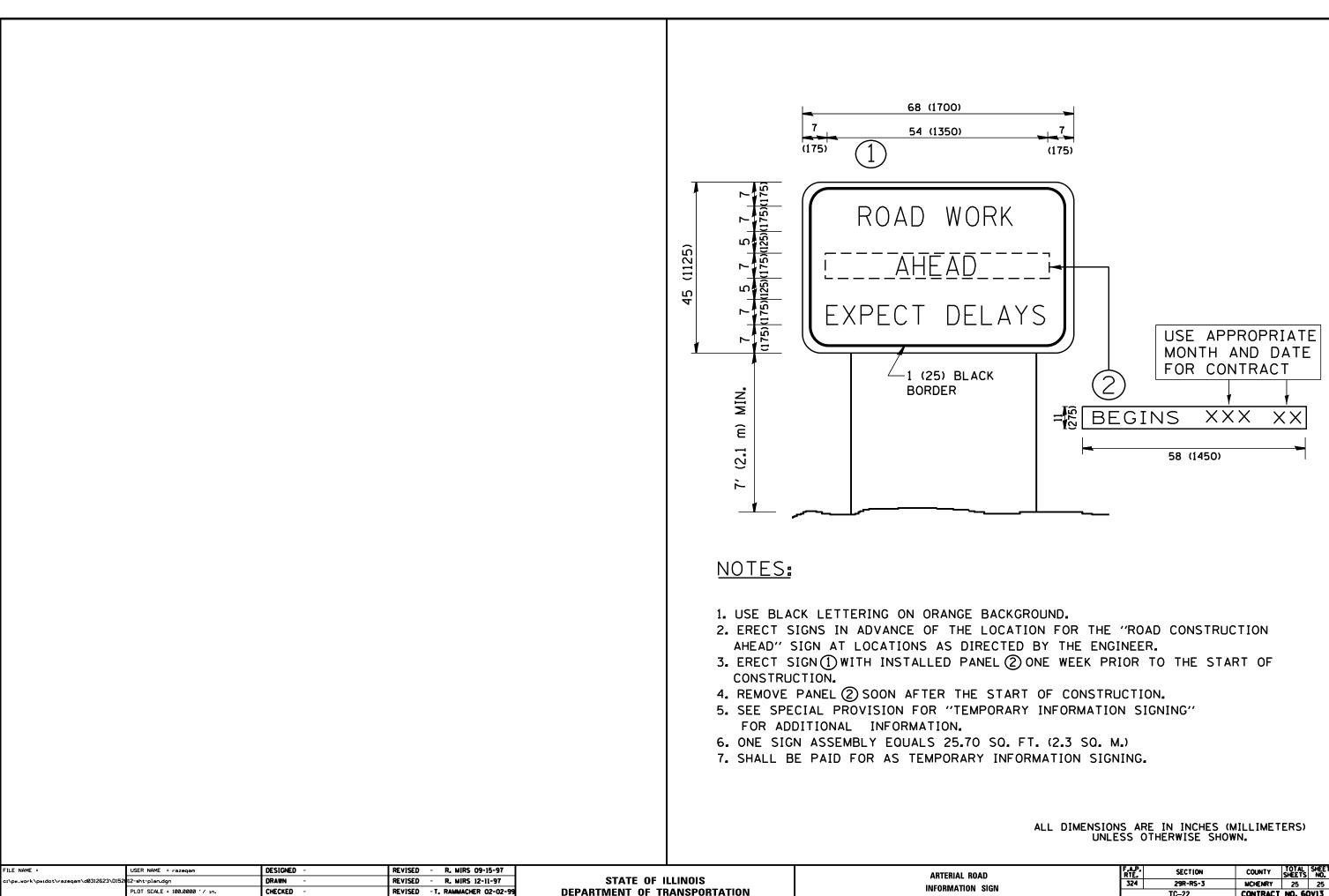
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

NOTE:

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.

| LOOP INSTALLATION Way resurfacing | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
|--------------------------------------|-----------------|---------|----------------|---|----------|-----------------|--------------|--|
| | | | 324 | 29R-RS-3 | MCHENRY | 25 | 24 | |
| ~~ | NAT RESURFACING | | | TS-07 | CONTRACT | NO, E | 50V13 | |
| 5 | STA, | TO STA. | FED. R | FED. ROAD DIST. NO. 1 ILLINDIS FED. AID PROJECT | | | | |



SCALE: NONE

SHEET NO. 1 OF 1 SHEETS

PLOT DATE = 4/17/2014

DATE

REVISED - C. JUCIUS 01-31-07

| ROAD | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
|--------|---------|----------------|---|--------------------|-----------------|--------------|--|
| N SIGN | | | 29R-RS-3 | MCHENRY | 25 | 25 | |
| | | | TC-22 | CONTRACT NO. 60V13 | | | |
| STA. | TO STA. | FED. ROA | FED. ROAD DIST. NO. 1 ILLINDIS FED. AID PROJECT | | | | |