03-09-12 LETTING ITEM 062

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED IN THE VILLAGE OF

RIVERDALE AND CITY OF CHICAGO AND HARVEY

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAU RTE. 3730: IL 1 (HALSTED STREET) 152nd St. TO 127th St. SECTION (1313,1314&3262) RS-5

> RESURFACING (3P) COOK COUNTY C-91-119-12

PROJECT BEGINS

STA. 9 + 66

PROJECT ENDS STA. 186 + 27

OMISSION

STA. 60+80.9 TO STA. 62+89.6

STA. 100+14.1 TO STA. 107+37.1

STA. 132+38.7 TO STA. 138+01.8

STA. 163+18.9 TO STA. 167+30.8

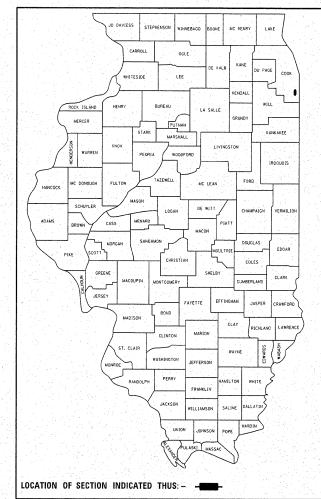
TRAFFIC DATA

2009 ADT = 17,900

POSTED SPEED LIMIT = 30 - 40 MPH

FALL SECTION COUNTY TOTAL SHEET NO. 3730 (1312,1314&3262) RS-5 COOK 32 1 1 | ILLINOIS CONTRACT NO. 60R48 | 32 1 7 -1 = 38

D-91-119-12



0 50' 100' 1"= 10'
0 50' 100' 1"= 50'
0 50' 100' - 1"= 30'
0 50' 100' - 1"= 30'

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
"C.U.A.N"
CHICAGO UTILITY ALERT NETWORK
1-312-744-7000

 \circ

 \circ

PROJECT ENGINEER: KARI SMITH (847) 705–4437 PROJECT MANAGER: KEN ENG (847) 705–4247 CONTRACT NO. 60R48 GROSS LENGTH OF PROJECT = 17661 FT. = 3.34 MILE NET LENGTH OF PROJECT = 15750 FT. = 2.98 MILE STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

SUBMITTED DECEMBER 6, 20 11

Diane M. O'lleft at DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

February 3 20 12

John D. Bruannelli P.E. on acting engineer of design and environment Ebruany 3 20 12

acting DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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- 2 INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES
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- 4-5 TYPICAL SECTIONS
- 5-12 ROADWAY AND PAVEMENT MARKING PLANS
- 12A SIDEWALK REMOVAL AND REPLACEMENT PLAN
- 13-18 DETECTOR LOOP REPLACEMENT PLANS
 - 9 DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-08)
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- 21 CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)
- 22 BUTT JOINT AND HMA TAPER DETAILS (BD-32)
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- 5 DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
- 26 TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)
- 27 PAVEMENT MARKING LETTERS & SYMBOLS FOR TRAFFIC STAGING (TC-16)
- 28 ARTERIAL ROAD INFORMATION SIGN (TC-22)
- 29-30 CITY OF CHICAGO TYPICAL PAVEMENT MARKINGS (TC-24)
 - 31Å DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAIL, SHEET 1 OF 6 (TS-05)
- 32 DISTRICT 1 DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)

HIGHWAY STANDARDS

STANDARD NO. DESCRIPTION

000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

442201-03 CLASS C AND D PATCHES

604001-03 FRAME AND LIDS, TYPE 1

604091-02 FRAME AND GRATE, TYPE 24

701427 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS <= 40 MPH

701601-07 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN

701606-06 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN

701701-08URBAN LANE CLOSURE, MULTILANE INTERSECTION

701801-05 LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE

701901-02TRAFFIC CONTROL DEVICES

CHICAGO NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "C.U.A.N." (CHICAGO UTILITY ALERT NETWORK) AT 312-744-7000 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 CITY OF CHICAGO.

ALL CATCH BASINS IN THE CITY OF CHICAGO MUST MEET THE DEPARTMENT OF SEWER STANDARDS.

PERMITS FROM THE DEPARTMENT OF SEWERS ARE REQUIRED FOR ALL UNDERGROUND STORM, SANITARY OR COMBINED SEWER SYSTEM CONSTRUCTION, AND FOR RESURFACING WORK INVOLVING ADJUSTMENT OF SEWER STRUCTURES. THE DEPARTMENT OF SEWERS, PERMIT MUST BE OBTAINED BY A LICENSED SEWER DRAIN LAYER PRIOR TO START OF CONSTRUCTION.

PERFORATED LIDS SHALL BE PLACED ON ALL MANHOLES AND CATCH BASINS,

ALL BROKEN, CRACKED, WORN OR OTHERWISE DAMAGED OR BICYCLE UNSAFE FRAMES AND LIDS ON SEWER STRUCTURES, SHALL BE REPLACED WITH NEW DEPARTMENT OF SEWERS' STANDARDS FRAMES AND LIDS.

OPEN LID DRAINAGE STRUCTURES SHALL NOT BE CLOSED, COVERED OR OTHERWISE OBSTRUCTED DURING CONSTRUCTION OF THIS ROADWAY WITHOUT THE WRITTEN PERMISSION FROM THE CITY OF CHICAGO.

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

GENERAL NOTES

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

TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, THE VILLAGE OF RIVERDALE AND THE CITY OF HARVEY AND CHICAGO.

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

ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

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.

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

LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT [OR COMBINATION CURB AND GUTTER (THE TYPE SPECIFIED ON THE PLANS)], WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

DRAINAGE ADJUSTMENT OR RECONSTRUCTION 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.

FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.

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 ENGINEER SHALL CONTACT MS. PATRICE HARRIS, AREA TRAFFIC FIELD ENGINEER, AT (708) 597-9800 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF CONSTRUCTION.

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

FOR FRAMES AND LIDS ADJUSTMENT WITHOUT MILLING, REUSE EXISTING FRAME AND LID UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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.

WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED $1\frac{1}{2}$ INCHES (40 mm) WHERE THE SPEED LIMIT IS 40 MPH (80 km/h) OR LESS AND 1 INCH (25 mm) WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH (80 km/h). WITH WRITTEN APPROVAL OF THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 mm) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

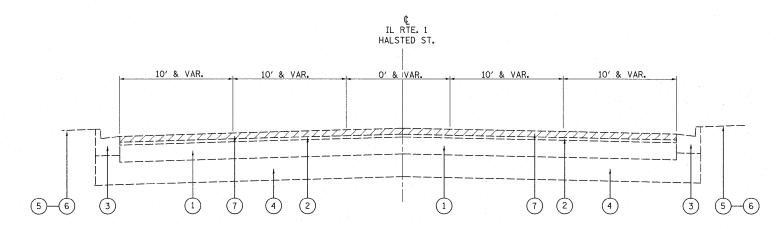
BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) ACCORDING TO THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

| FILE NAME = | USER NAME = abebawa | DESIGNED - | REVISED - |
|-----------------------------------------|-----------------------------|------------|-----------|
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| | PLOT SCALE = 50.0000 '/ in. | CHECKED - | REVISED - |
| | PLOT DATE = 12/16/2011 | DATE ~ | REVISED - |

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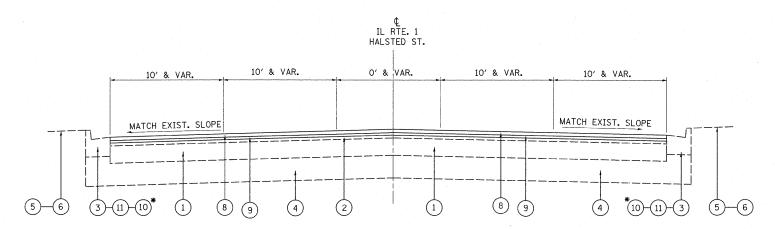
| F.A.U. RTE. | SECTION | COUNTY | TOTAL | SHEE NO. |
|----------------|-----------------------|-------------|-------|-------------|
| 3730 | (1312,1314&3262) RS-5 | соок | 32 | 2 |
| | | CONTRACT | NO. 6 | OR48 |
| | THE THOSE CED. A | IO DDO IECT | | |

| | SUMMARY OF QUANTITIES | | URBAN | | (| CONSTRUCT | ION TYPE | CODE | | | SIIMM | ARY OF QUANTITIES | | URBAN | | | CONSTRUCT | ION TYPE | CODE | |
|------------------------|------------------------------------------------------------|--------------------|------------|--------------------|---|-----------|----------|---------|-----------------------|-----------------------|----------------------------|--------------------------------------|---------------|-------------|-----------------|---------------|------------------|-----------------|------------------|---------------------------|
| | SOMMAN OF GOARTITIES | | TOTAL | ROADWAY 0005 | | | | | | | 3011111 | ART OF GUARTITIES | | TOTAL | ROADWAY 0005 | • | | | | |
| CODE NO | ITEM | UNIT | QUANTITIES | | : | | | | | CODE NO | | ITEM | UNIT | QUANTITIES | | | | | | |
| 20201200 | REMOVAL AND DISPOSAL OF UNSUITABLE | CÙ YĐ | 46 | 46 | | | | | | 70102630 | TRAFFIC CONT | TROL AND PROTECTION, | L SUM | 1 | 1 | | | | | |
| 21101615 | TOPSOIL FURNISH AND PLACE, 4" | SO YD | 583 | 583 | | | | | | 70102635 | | ROL AND PROTECTION. | L SUM | 1 | 1 | | | | | |
| 25200110 | SODDING. SALT TOLERANT | SO YD | 583 | 583 | | | | | - | 70100640 | STANDARD 701 | | | | | | | | | |
| 31101200 | SUBBASE GRANULAR MATERIAL, TYPE B 4" | SO YD | 96 | 96 | | | | - | | 70102640 | STANDARD 701 | ROL AND PROTECTION, 801 | L SUM | 1 | 1 | | | | | |
| 35101400 | AGGREGATE BASE COURSE, TYPE B | TON | 73 | 73 | | | | | | 70300100 | SHORT TERM P | PAVEMENT MARKING | FOOT | 23274 | 23274 | | | | | |
| 40600200 | BITUMINOUS MATERIALS (PRIME COAT) | TON | 74 | 74 | | | | | | 70300210 | TEMPORARY PA | VEMENT MARKING SYMBOLS | SO FT | 546 | 546 | | | | | |
| 40600300 | AGGREGATE (PRIME COAT) | TON | 369 | 369 | | | | | | 70300220 | | VEMENT MARKING | FOOT | 40259 | 40259 | | | | | |
| 40600400 | MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS | TON | 138 | 138 | | | | | | · | - LINE 4" | | | 1 No. 1 | | | | | | |
| 40600827 | POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 | TON | 3800 | 3800 | | | | | | 70300240 | TEMPORARY PA - LINE 6" | VEMENT MARKING | FOOT | 4102 | 4102 | | | | | |
| 40600895 | CONSTRUCTING TEST STRIP | EACH | 2 | 2 | | | | | | 70300250 | TEMPORARY PA | VEMENT MARKING | FOOT | 251 | 251 | | | | | |
| 40600982 | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT | SO YD | 972 | 972 | | - | | | | 70300260 | TEMPORARY PA | VEMENT MARKING | FOOT | 195 | 195 | | | | | |
| 40601005 | HOT-MIX ASPHALT REPLACEMENT OVER PATCHES | TON | 390 | 390 | | | *. | | | 70300280 | TEMPORARY PA - LINE 24" | VEMENT MARKING | FOOT | 814 | 814 | | | | | |
| 40603340 | HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 | TON | 7739 | 7739 | | | | | | 70301000 | WORK ZONE PA | VEMENT MARKING REMOVAL | SO FT | 2560 | 2560 | | | | | |
| 42001300 | PROTECTIVE COAT | SO YD | 870 | 870 | | | | | | X 78000100 | THERMOPLASTI - LETTERS AN | C PAVEMENT MARKING ID SYMBOLS | SO FT | 546 | 546 | | | | | |
| 42400200 | PORTLAND CEMENT CONCRETE SIDEWALK 5 | SO FT | 560 | 560 | | | | | | ¥ 78000200 | THERMOPLASTI - LINE 4" | C PAVEMENT MARKING | FOOT | 40256 | 40256 | | | | | |
| 44000158 | HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4" | SO YD | 92128 | 92128 | | | | | | X 78000400 | THERMOPLASTI - LINE 6" | C PAVEMENT MARKING | FOOT | 4102 | 4102 | | | | | |
| 44000600 | SIDEWALK REMOVAL | SO FT | 560 | 560 | | | | | | X 78000500 | | C PAVEMENT MARKING | FOOT | 251 | 251 | | | | | |
| 44002212 | HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3" | SO YD | 2319 | 2319 | | | - | | | * 78000600 | - LINE 8" THERMOPLASTI | C PAVEMENT MARKING | FOOT | 195 | 195 | | | | | |
| 44201753 | CLASS D PATCHES, TYPE II. 9 INCH | SO YD | 400 | 400 | | | | | | | - LINE 12" | | | | | | | | | |
| 44201757 | CLASS D PATCHES, TYPE III, 9 INCH | SO YD | 248 | 248 | | | | | | X 78000650 | THERMOPLASTI - LINE 24" | C PAVEMENT MARKING | F00T | 814 | 814 | | | | | |
| 44201759 | CLASS D PATCHES, TYPE IV. 9 INCH | SO YD | 1346 | 1346 | | | | | | X 78100100 | RAISED REFLE | CTIVE PAVEMENT MARKER | EACH | 1 300 | 1300 | | | | | |
| 44201803 | CLASS D PATCHES, TYPE II, 13 INCH | SO YD | 43 | 43 | | | | | | 78300200 | RAISED REFLE REMOVAL | CTIVE PAVEMENT MARKER | EACH | 1166 | 1166 | | | | | |
| 44201807 | CLASS D PATCHES, TYPE III, 13 INCH | SO YD | 54 | 54 | | | | | | X 88600100 | DETECTOR LOO | DP. TYPE I | FOOT | 412 | 412 | | | | | |
| 44201809 | CLASS D PATCHES. TYPE IV. 13 INCH | SO YD | 116 | 116 | | | | | | * 88600600 | | P REPLACEMENT | FOOT | 2014 | 2014 | | | | | |
| 50800205 | REINFORCEMENT BARS, EPOXY COATED | POUND | . 1100 | 1100 | | | | | | X6030310 | | IDS TO BE ADJUSTED | EACH | 89 | 89 | | | | | |
| 60404940 | FRAMES AND GRATES. TYPE 23 | EACH | 16 | 16 | | | , | | | | (SPECIAL) | | | | | | | | | |
| 60406100 | FRAMES AND LIDS, TYPE 1, CLOSED LID | EACH | 68 | 68 | | | | | | Z0004562 | COMBINATION REMOVAL AND | CONCRETE CURB AND GUTTER REPLACEMENT | FOOT | 3604 | 3604 | | | | | |
| 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 6 | 6 | | | | | | Z0018500 | | RUCTURES TO BE CLEANED | EACH | 167 | 167 | | | | | -4.7 |
| 67100100 | MOBILIZATION | L SUM | 1 | 1 | | | | | | Z0030850 | er e | FORMATION SIGNING | SO FT | 102.8 | 102.8 | | | | | |
| 70102625 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701606 | L SUM | 1 | 1 | | | | | | Z0048665 | RAILROAD PRO | TECTIVE LIABILITY INSURANCE | L SUM | 1 | 1 | | | | | |
| | | 5.1 | | | | | | | | | | | | | | | | | | |
| FILE NAME = | · • • • • • • • • • • • • • • • • • • • | SIGNED - | L | REVISED | | | | | <u> </u> | 164 : | * Specialty | / Items IL RTE. 1 (HALSTE | D ST \ /152n4 | Qt TO 1274L | ST / | F.A.U RTE. | J. SEC | TION | COUNTY | TOTAL SHEET SHEETS NO. |
| c:\pw_work\pwldof\abel | | RAWN - HECKED - | | REVISED REVISED | | | | | STATE OF IENT OF T | ILLINOIS RANSPORTA | TION | | ARY OF QUAN | | 31./ | | (1312,1314& | | COOK CONTRACT | 32 3 |
| | PLOT DATE = 12/16/2011 DA | TE - | | REVISED | - | | | | 177 | | | SCALE: NONE SHEET NO. OF | SHEETS STA | . т | O STA. | FED. | ROAD DIST. NO. 1 | ILLINOIS FED. A | | |



EXISTING TYPICAL CROSS SECTION

STA. 4+00 TO STA. 31+00 STA. 45+00 TO STA. 65+00 STA. 79+00 TO STA. 189+00



PROPOSED TYPICAL CROSS SECTION

STA. 4+00 TO STA. 31+00 STA. 45+00 TO STA. 65+00 STA. 79+00 TO STA. 189+00

SAFETY EDGE DETAIL

NOTES

PAVEMENT PATCHING SEQUENCE OF CONSTRUCTION (PATCHING FIRST - FROM STA. 4+00 TO STA. 31+00 & FROM STA. 45+00 TO STA. 65+00) AND STA. 79+00 TO STA. 189+00 (MILLING FIRST - FROM STA. 31+00 TO STA. 45+00 & STA. 65+00 TO STA. 79+00

COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE HMA SURFACE REMOVAL 2-1/4"

* FROM STA. 153+00 TO STA. 160+00

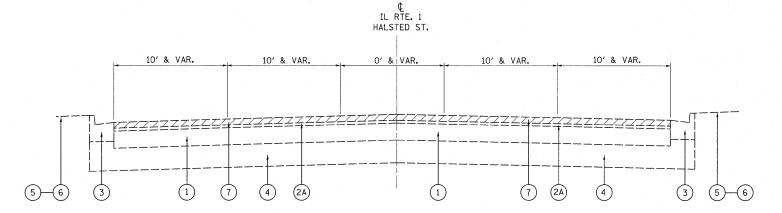
LEGEND

- (1) EXISTING P.C.C. PAVEMENT, ± 9"
- 2) EXISTING H.M.A. SURFACE, ± 3"
- (2A) EXISTING H.M.A. SURFACE, ± 6"
- 3) EXISTING COMB. CONCRETE CURB & GUTTER
- 4) EXISTING AGGREGATE SUBGRADE
- 5 EXISTING PARKWAY
- 6 EXISTING SIDEWALK
- (7) PROPOSED H.M.A. SURFACE REMOVAL, 2 1/4 "
- (8) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2 "
- 9 PROPOSED POLY, LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4 "
- (10) PROP. AGGREGATE WEDGE SHOULDER, TYPE B
- (11) PROP. GRADING AND SHAPING SHOULDERS
- (12) SAFTEY EDGE (SEE DETAIL)

| MIXTURE REQUIREMENTS | |
|----------------------------------------------------------|-----------------|
| MIXTURE TYPE | VOIDS |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm) | 4% AT 70 GYR. |
| POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 | 3.5% AT 50 GYR. |
| CLASS D PATCHES (HMA BINDER IL-19 mm) | 4% AT 70 GYR. |
| HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm) | 4% AT 70 GYR. |

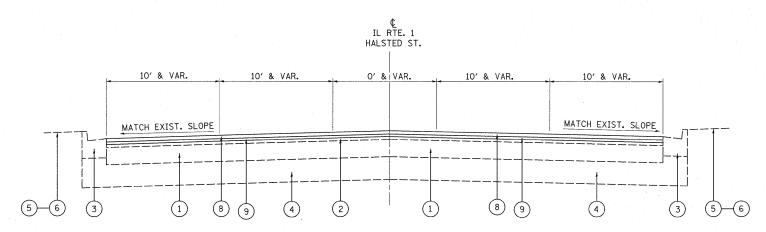
- NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE IS 112 LBS/SQYD/IN
- NOTE 2: THE "AC TYPE" FOR POLYMERIZED HMA SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

| FILE NAME = | USER NAME = abebawa | DESIGNED - | REVISED - | | IL RTE. 1 (HALSTED ST.) (152nd St. TO 127th ST.) | F.A.U SECTION COUNTY TOTAL SHEET |
|----------------------------------------|-----------------------------|------------|-----------|------------------------------|--------------------------------------------------|---------------------------------------------|
| c:\pw_work\pwidot\abebawa\dØ284194\D1Ø | 16211-sht-plan.dgn | DRAWN - | REVISED - | STATE OF ILLINOIS | TYPICAL SECTIONS | 3730 (1312,1314&3262) RS-5 COOK 32 4 |
| | PLOT SCALE = 50.0000 '/ in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | TITIONE OLUTIONS | CONTRACT NO. 60R48 |
| | PLOT DATE = 12/20/2011 | DATE - | REVISED ~ | | SCALE: NONE SHEET NO. OF SHEETS STA. TO STA. | ILLINOIS FED. AID PROJECT |



EXISTING TYPICAL CROSS SECTION

STA. 31+00 TO STA. 45+00 STA. 65+00 TO STA. 79+00



PROPOSED TYPICAL CROSS SECTION

STA. 31+00 TO STA. 45+00 STA. 65+00 TO STA. 79+00

NOTES

PAVEMENT PATCHING SEQUENCE OF CONSTRUCTION (PATCHING FIRST - FROM STA. 4+00 TO STA. 31+00 & FROM STA. 45+00 TO STA. 65+00) AND STA. 79+00 TO STA. 189+00 (MILLING FIRST - FROM STA. 31+00 TO STA. 45+00 & STA. 65+00 TO STA. 79+00

COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE HMA SURFACE REMOVAL 2-1/4"

* FROM STA. 153+00 TO STA. 160+00

LEGEND

- (1) EXISTING P.C.C. PAVEMENT, ± 9"
- (2) EXISTING H.M.A. SURFACE, ± 3"
- (2A) EXISTING H.M.A. SURFACE, ± 6"
- (3) EXISTING COMB. CONCRETE CURB & GUTTER
- 4 EXISTING AGGREGATE SUBGRADE
- 5 EXISTING PARKWAY
- 6 EXISTING SIDEWALK
- (7) PROPOSED H.M.A. SURFACE REMOVAL, 2 1/4 "
- (8) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2 "
- 9 PROPOSED POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4 "
- 10) PROP. AGGREGATE WEDGE SHOULDER, TYPE B
- (11) PROP. GRADING AND SHAPING SHOULDERS
- (12) SAFTEY EDGE (SEE DETAIL)

| | FILE NAME = | USER NAME = abebawa | DESIGNED - | REVISED - | |
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| ı | | PLOT SCALE = 50.0000 '/ in. | CHECKED - | REVISED - | |
| 1 | | PLOT DATE = 12/20/2011 | DATE - | REVISED - | |

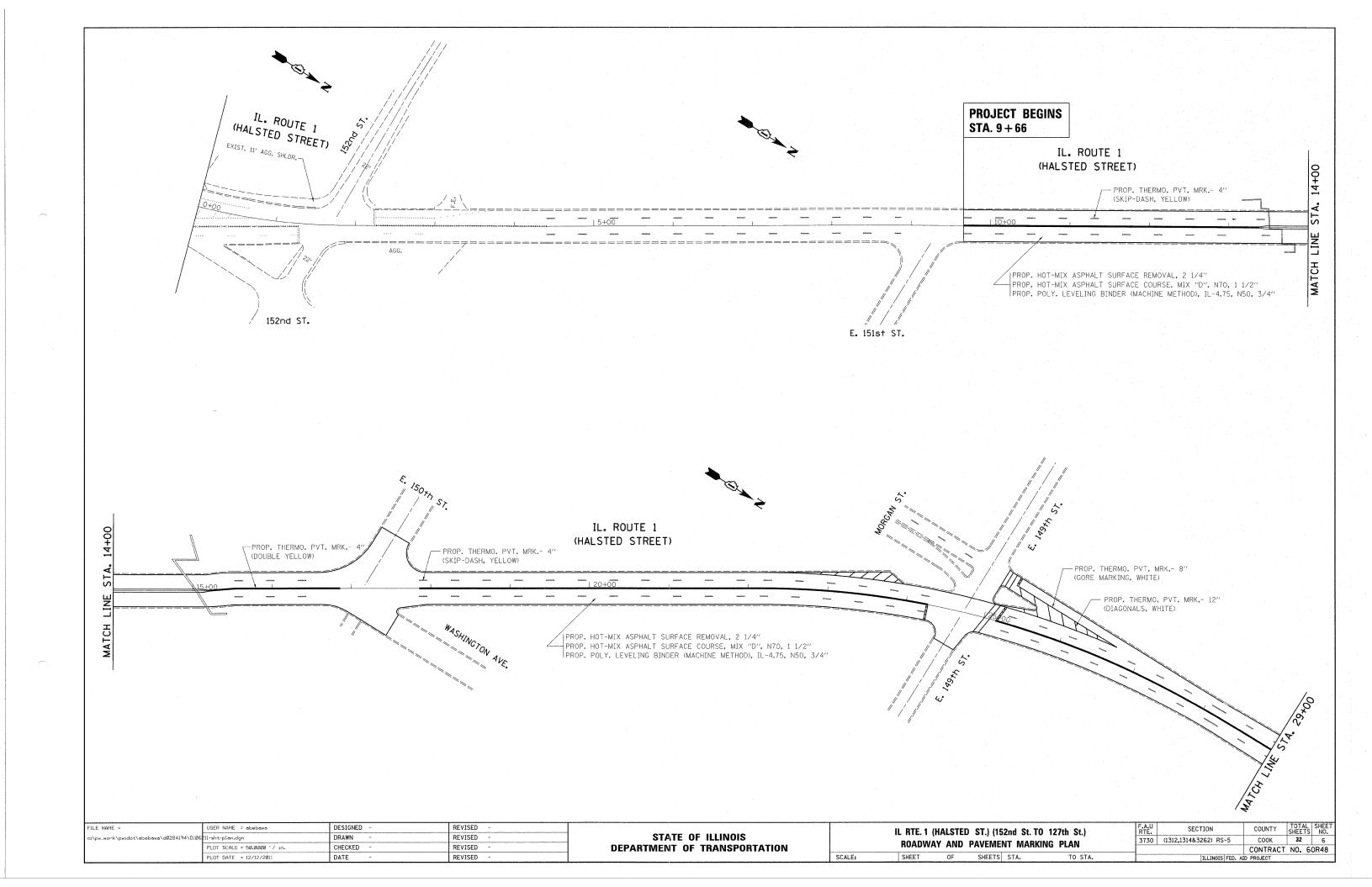
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| DEPARTMENT | 0F | TRANSPORTATION |

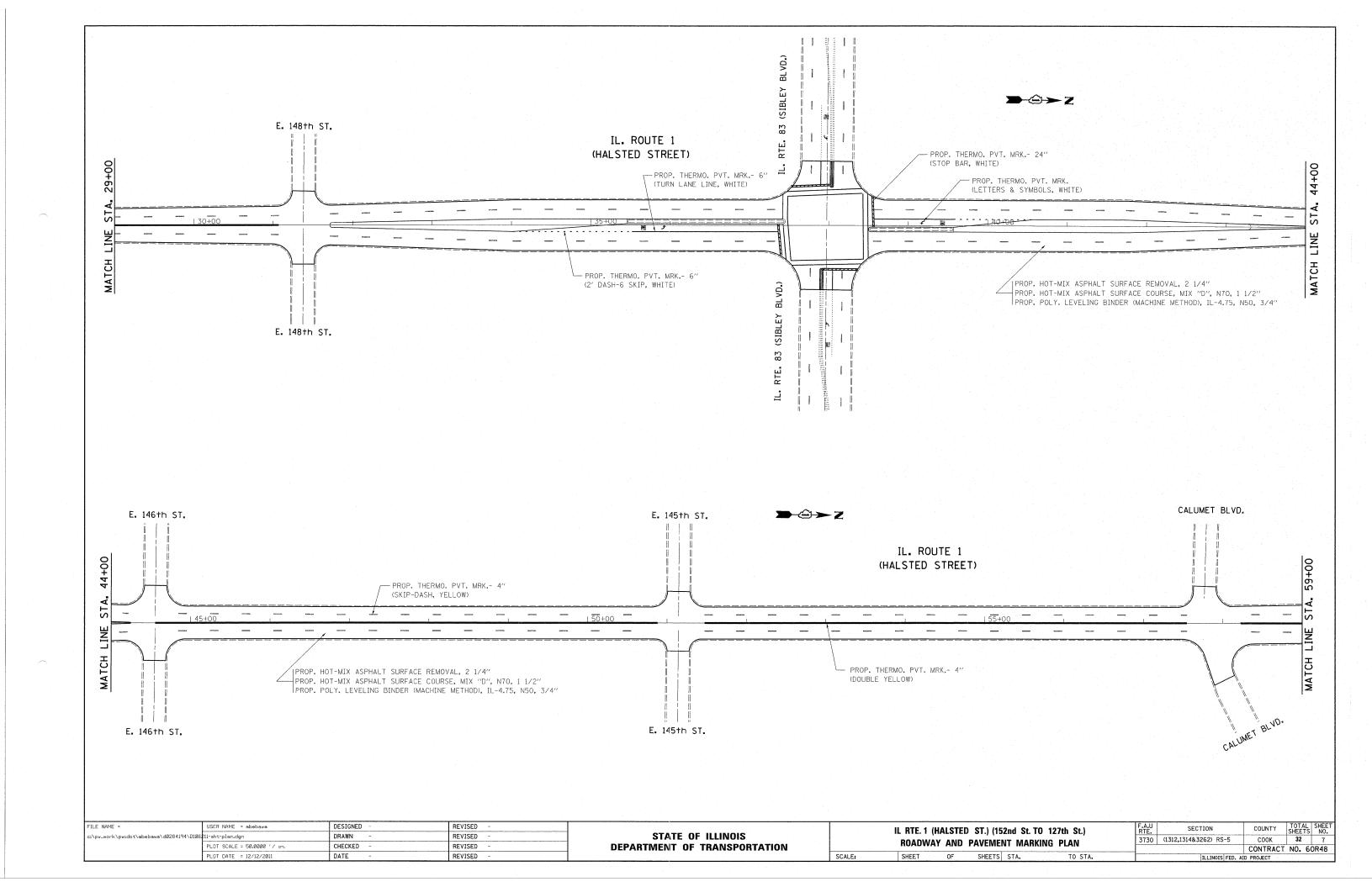
| IL RTE. 1 (HALSTED ST.) (152nd St. TO 127th St.) | F.A.U. RTE. | SECTION |
|--------------------------------------------------|----------------|-----------------------|
| TYPICAL SECTIONS | 3730 | (1312,1314&3262) RS-5 |
| | | |
| SCALE: NONE SHEET NO. OF SHEETS STA. TO STA. | | TU INOIS FED. |

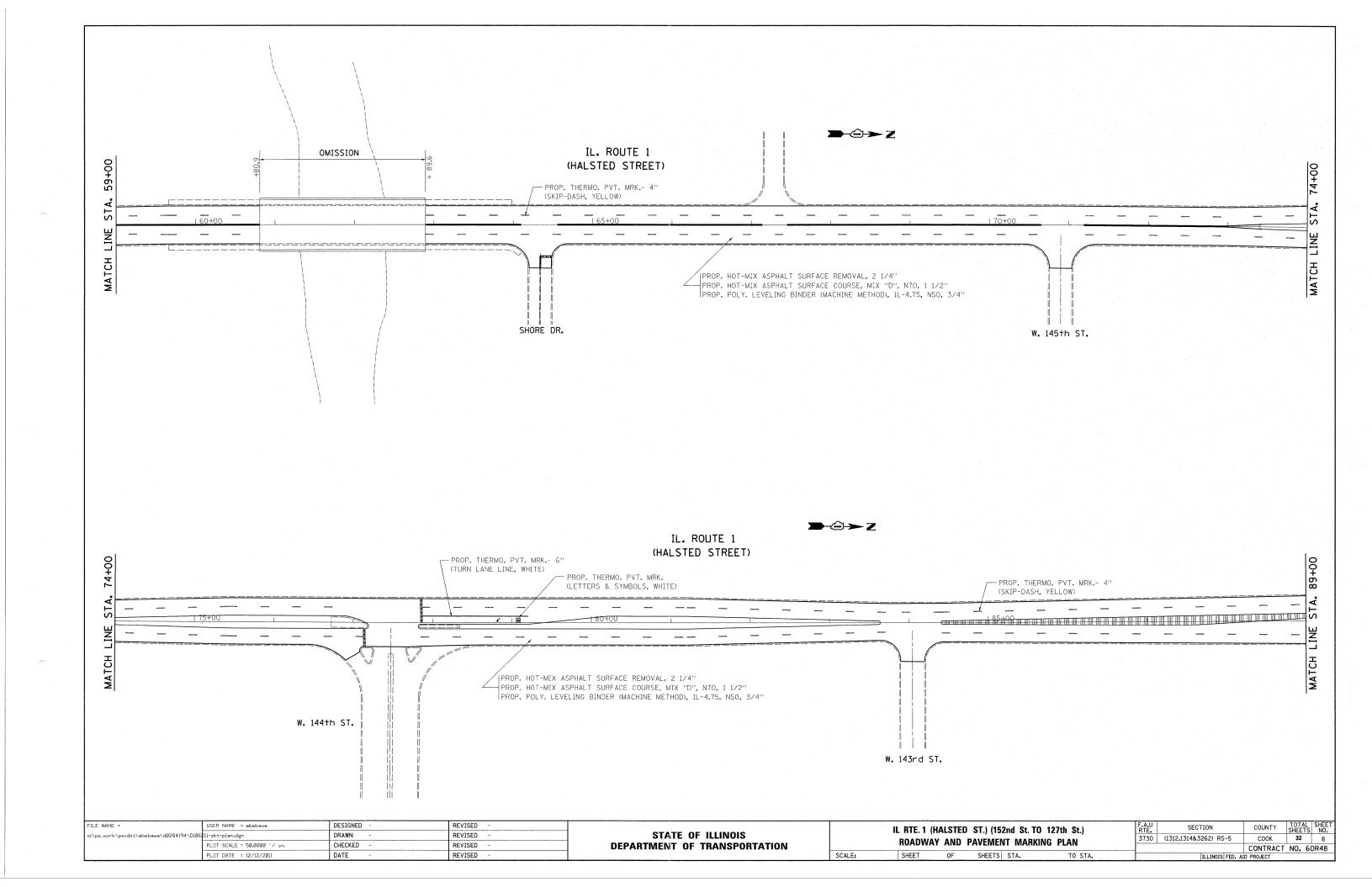
COUNTY TOTAL SHEET NO.

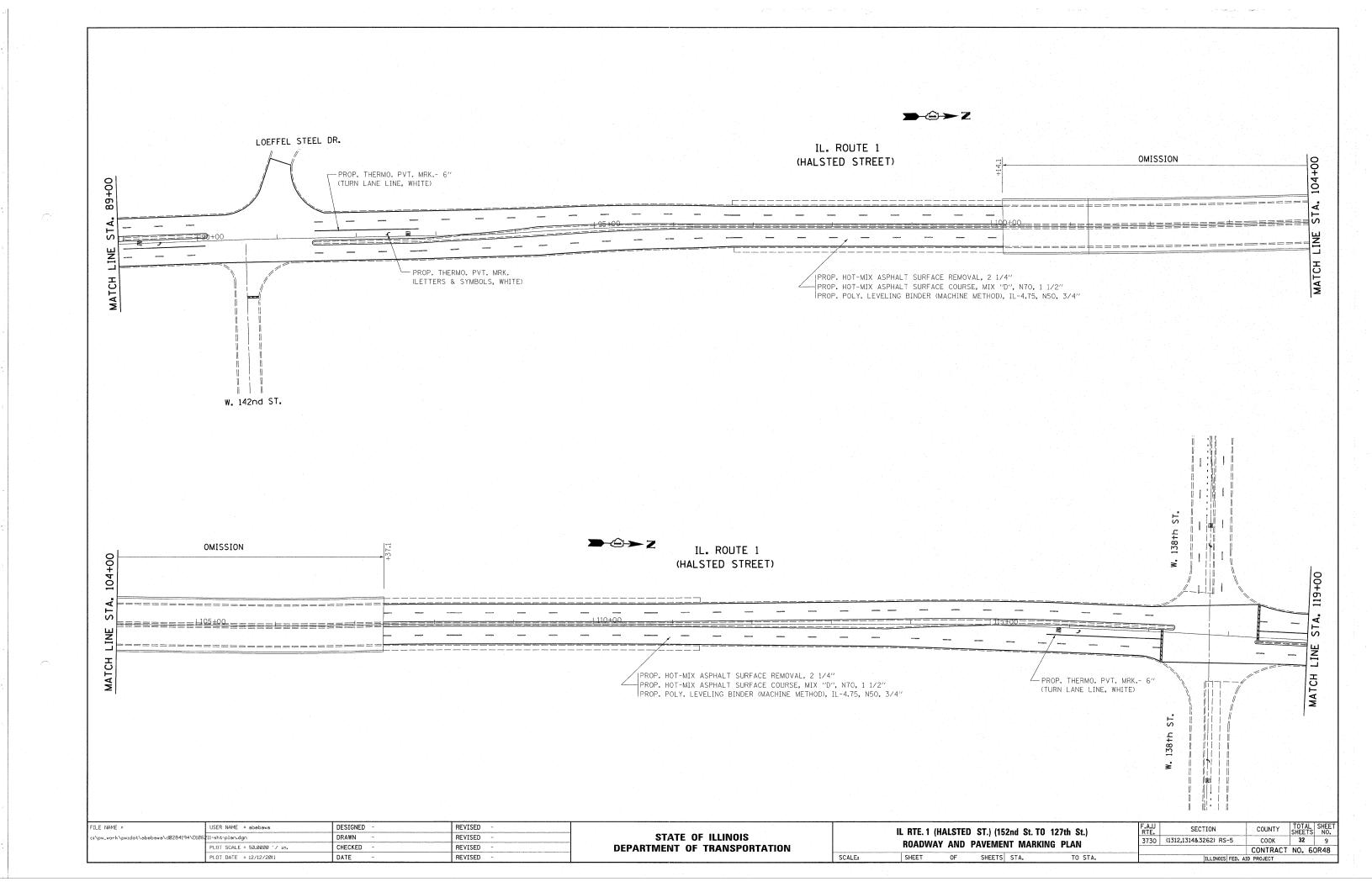
COOK 32 5

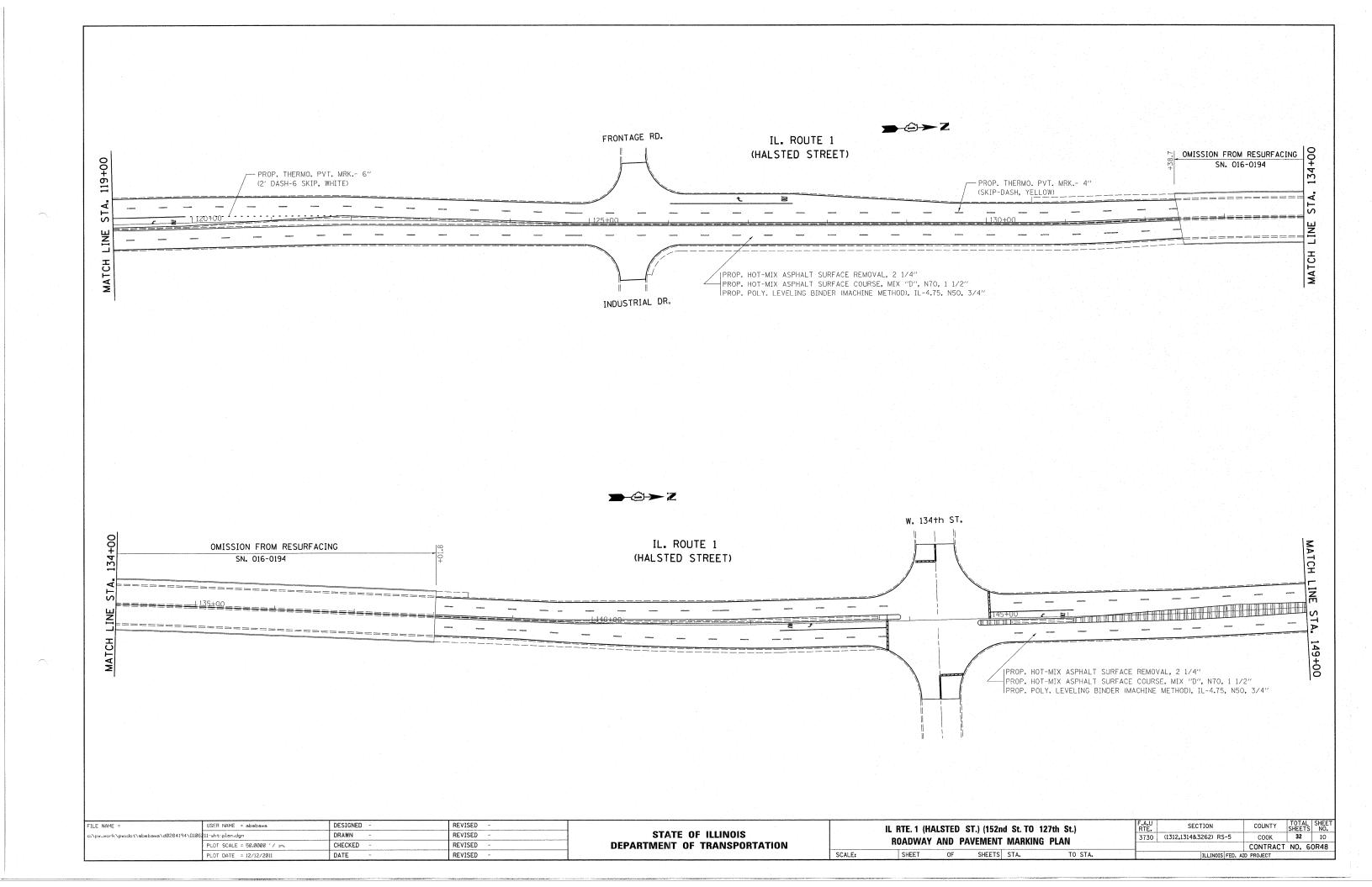
CONTRACT NO. 60R48

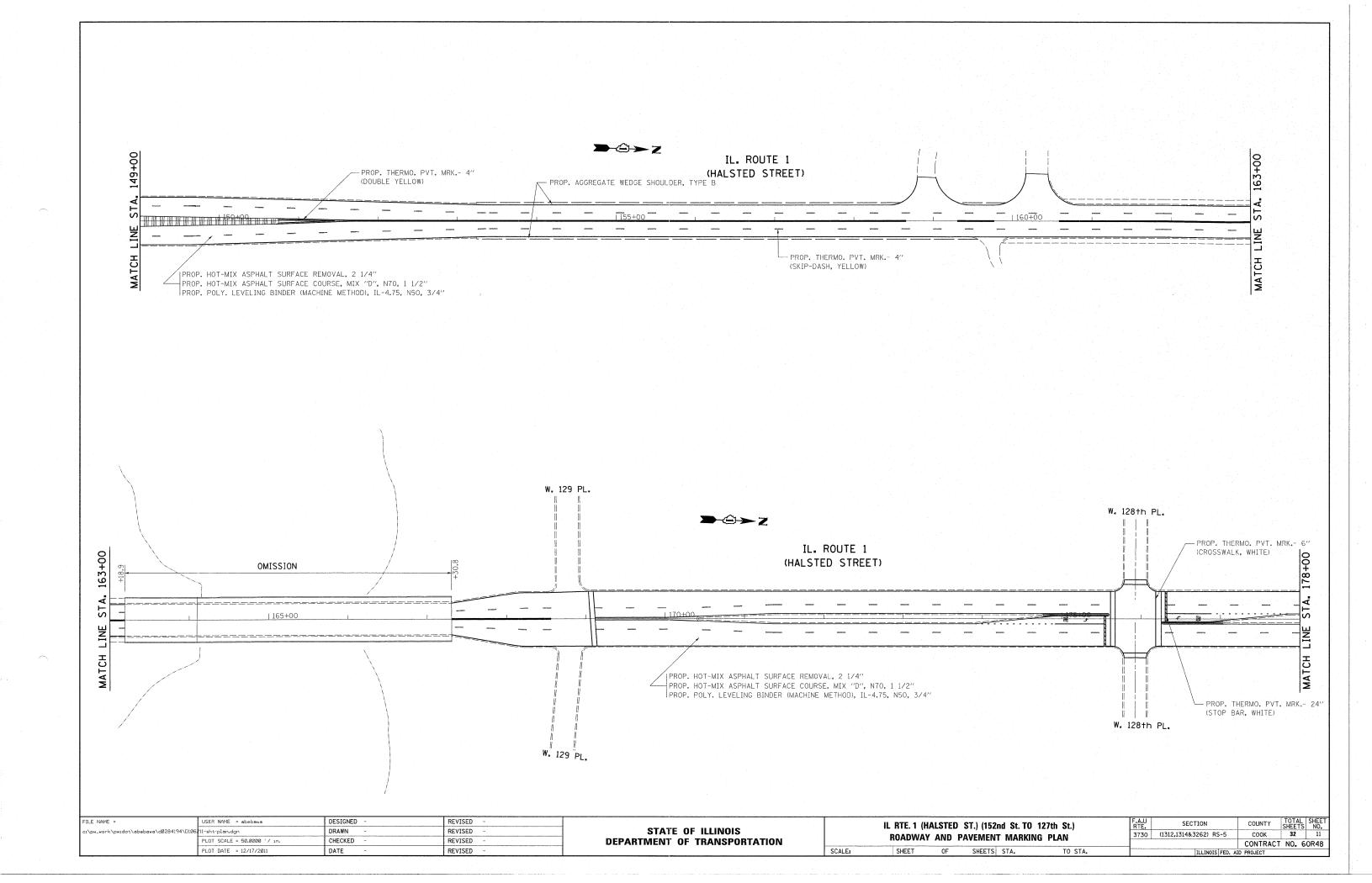


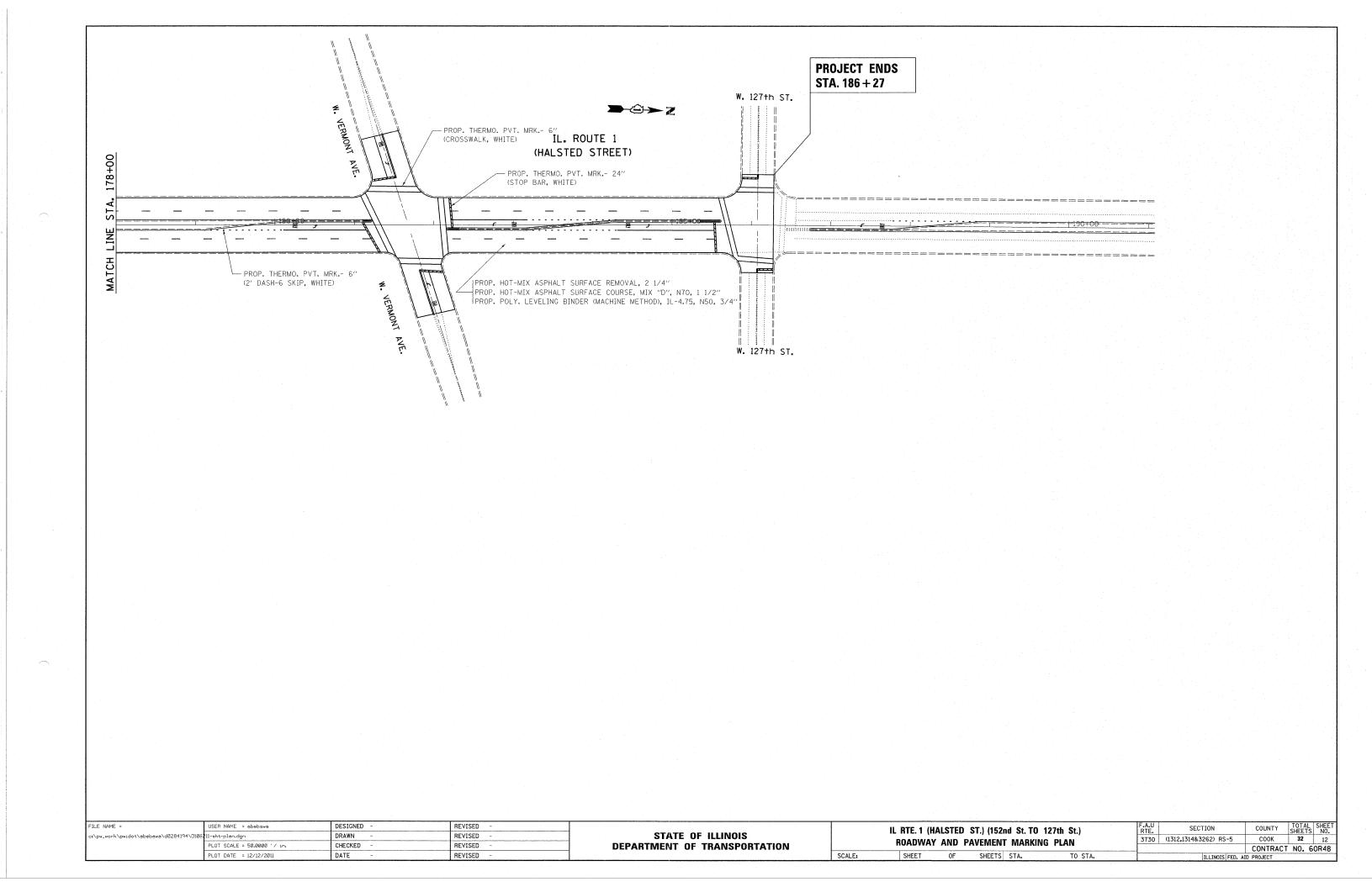


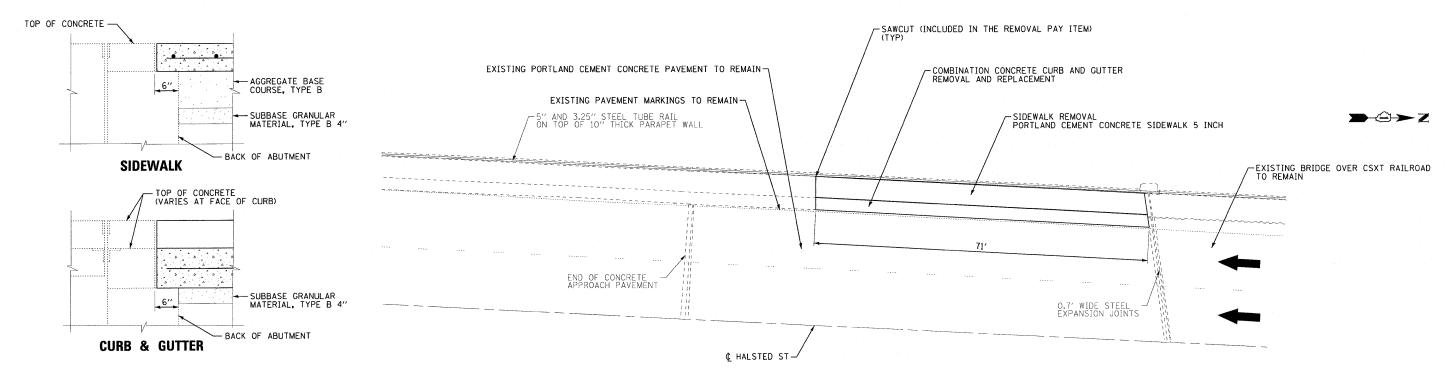






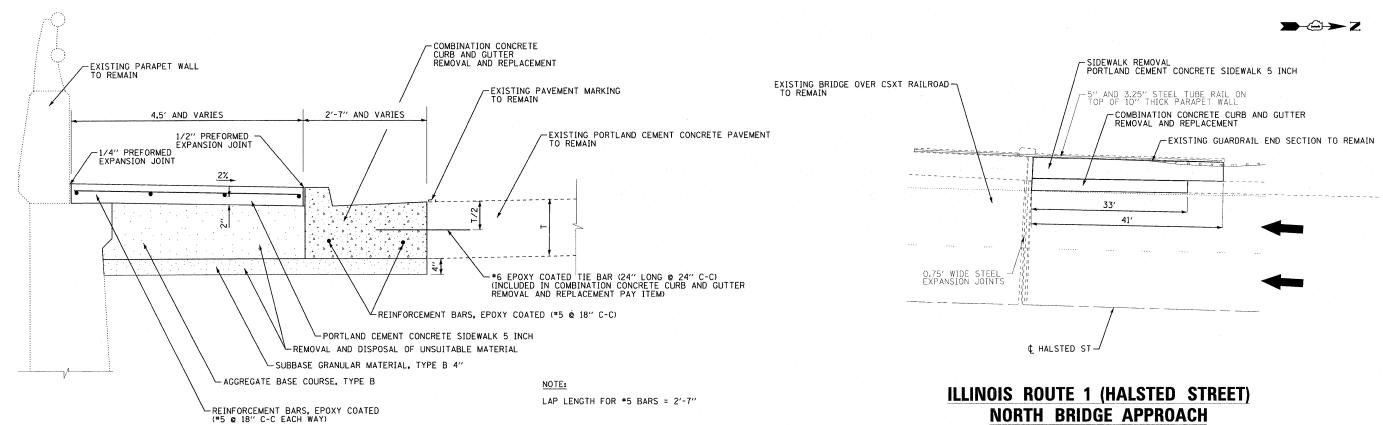






CROSS SECTIONS AT BACK OF ABUTMENTS

ILLINOIS ROUTE 1 (HALSTED STREET) SOUTH BRIDGE APPROACH



COMBINATION CONCRETE CURB AND GUTTER AND SIDEWALK DETAIL

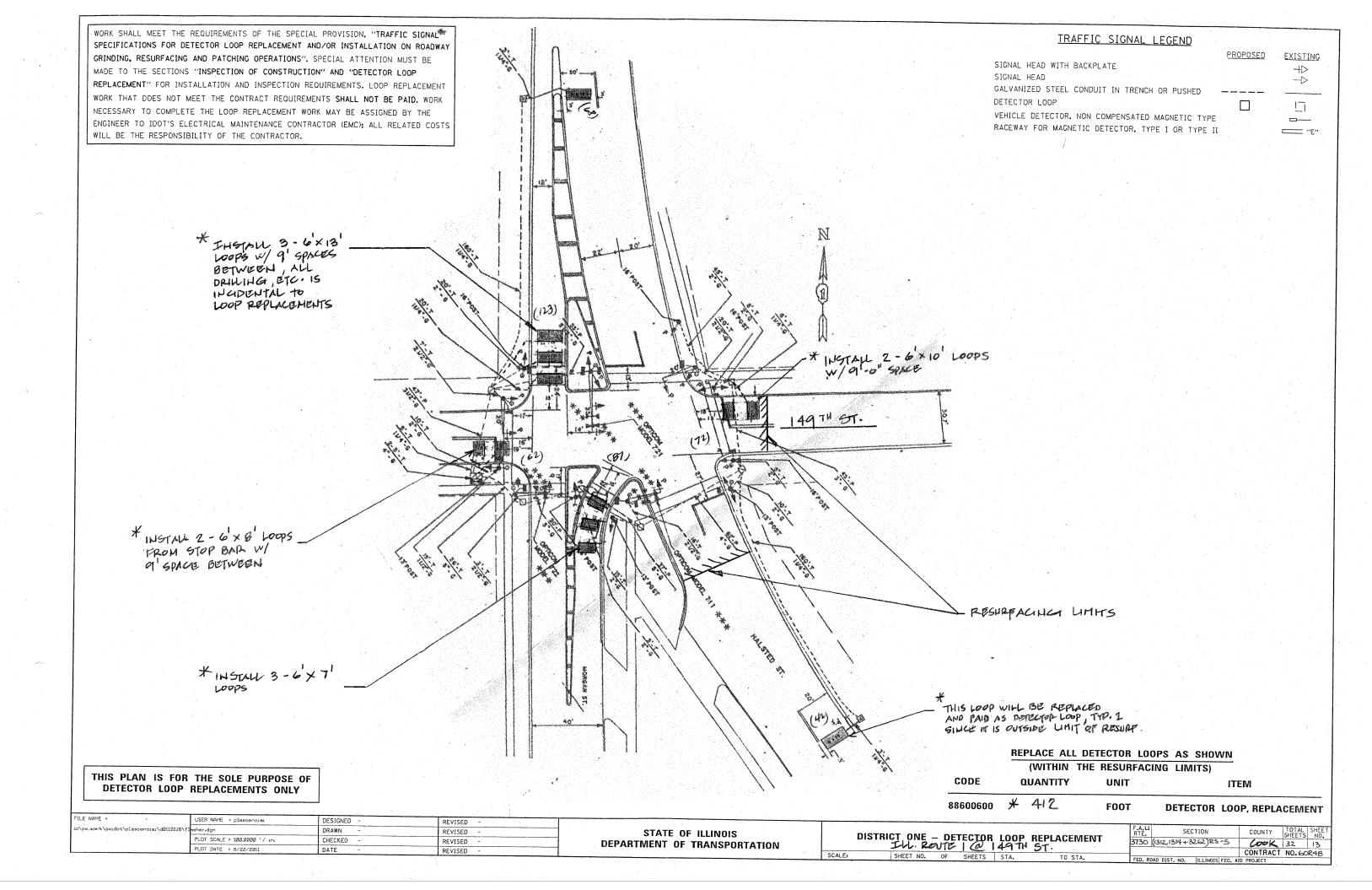
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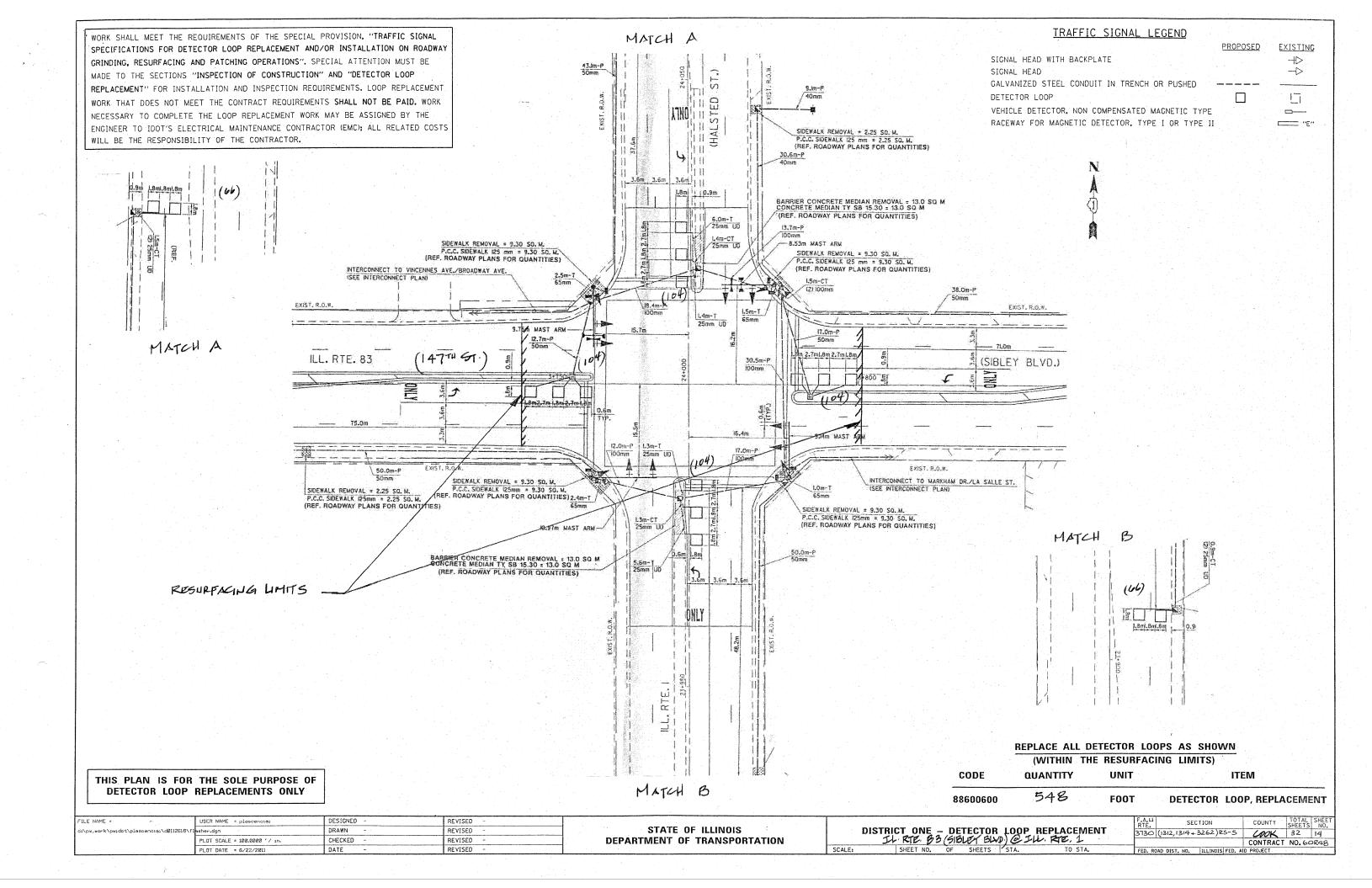
| DESIGNED | - | MWP | REVISED - |
|----------|---|----------|-------------------------------|
| DRAWN | - | BCD | REVISED - |
| CHECKED | - | LDH | REVISED - |
| DATE | - | 11-21-11 | FILE - 100153-W032_Plan01.sht |

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

| | | | | | 5 | N. 016-019 | | |
|---|------------------------------------------------|--------------|-------------|----------------|-----------------------------------|------------|-----------------|--------------|
| T | ILLINOIS ROUTE 1 (HA | | | F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | CURB AND GUTTER AND SIDEWALK AT BRIDGE OVER CS | | REPLACEMENT | 3730 | (1312,1314+3262)RS-5 | | 32 | 12A |
| L | AT DITIDGE OVER 03 | AI IIAILIUAD | | | | CONTRACT | NO. 60 | 1848 |
| 1 | SCALE: 1"=10' | STA. T | O STA. | FED. R | OAD DIST. NO. 1 ILLINOIS FED. A | D PROJECT | | |

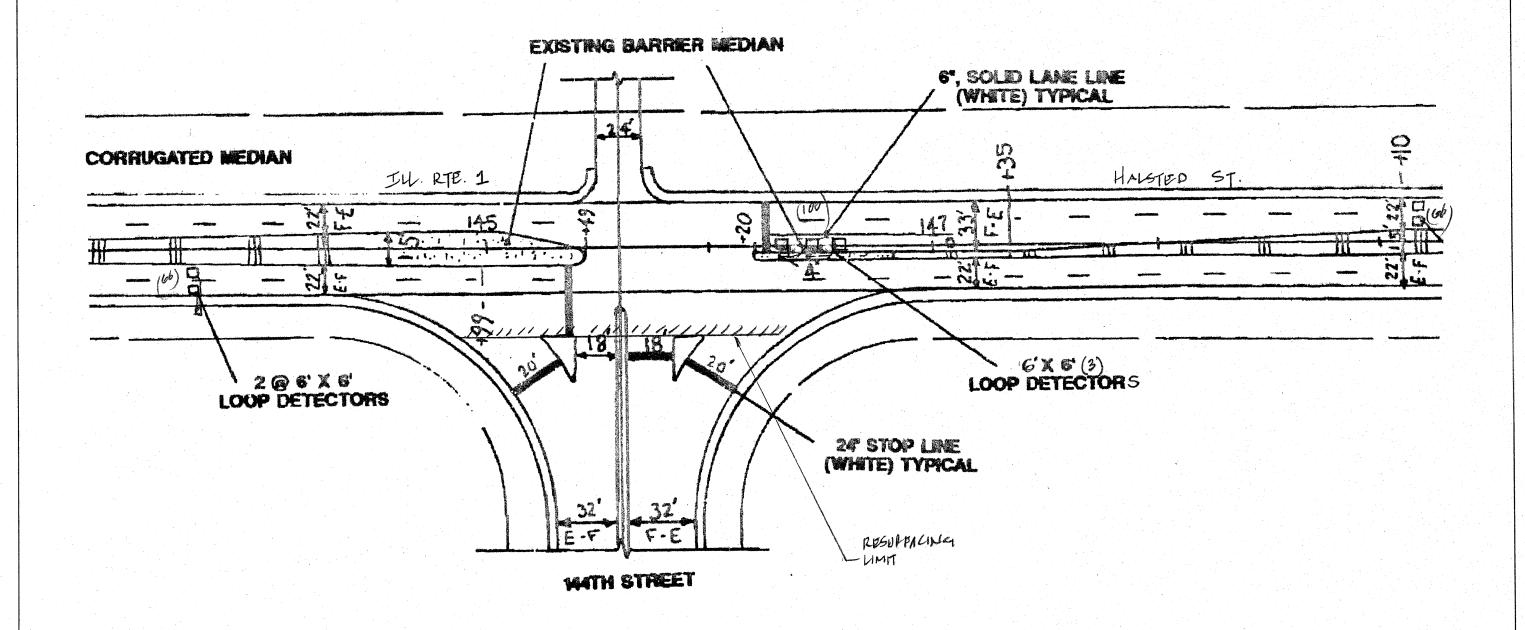
NORTH BRIDGE APPROACH





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.

| TRAFFIC SIGNAL LEGEND |
|--------------------------------------------------|
| <u>PROPOSED</u> <u>EXISTING</u> |
| SIGNAL HEAD WITH BACKPLATE |
| SIGNAL HEAD |
| GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED |
| DETECTOR LOOP |
| VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE |
| RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II |

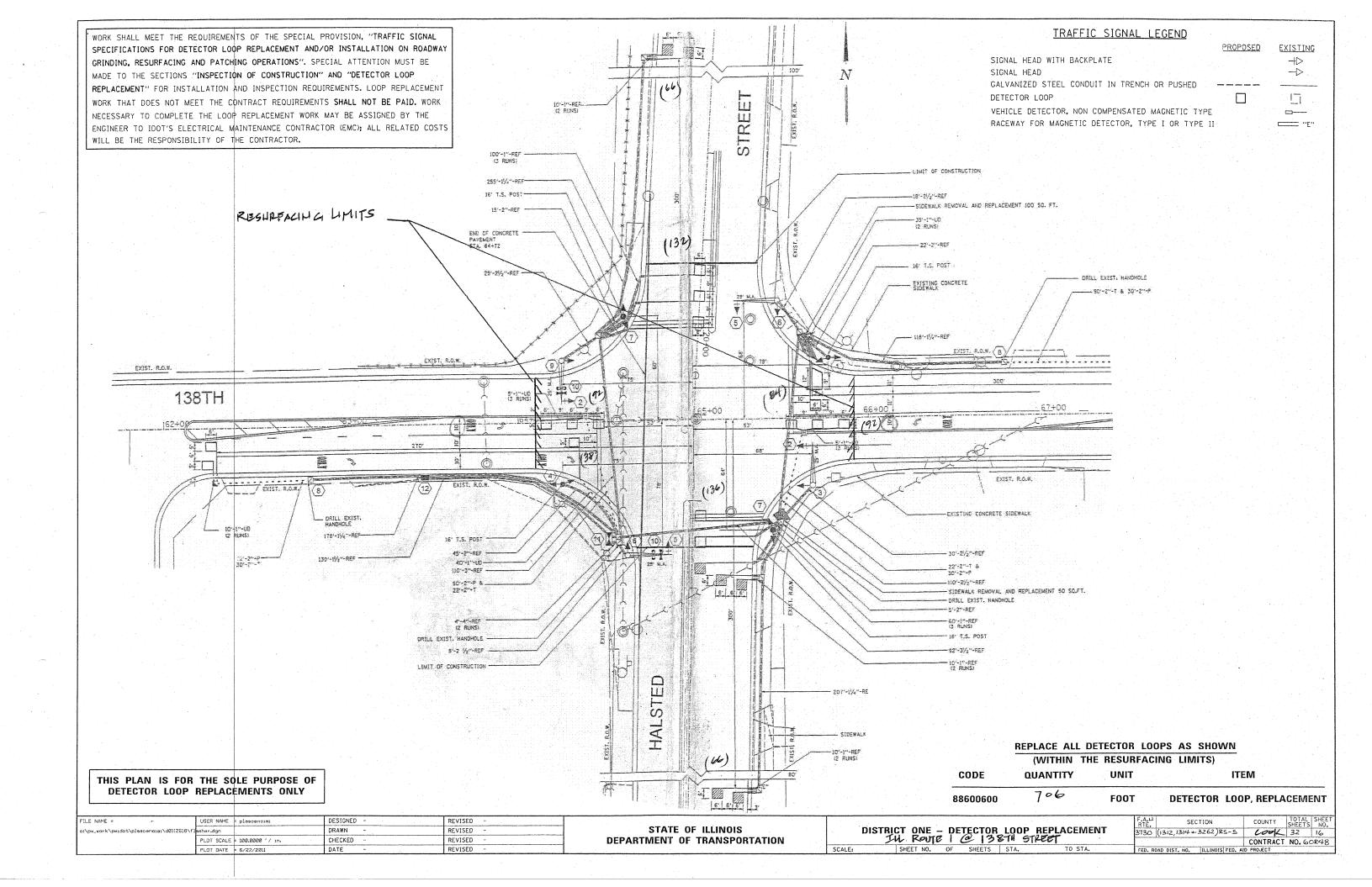


THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

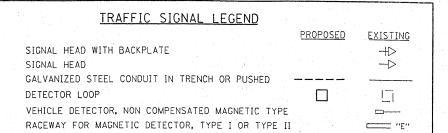
(WITHIN THE RESURFACING LIMITS)

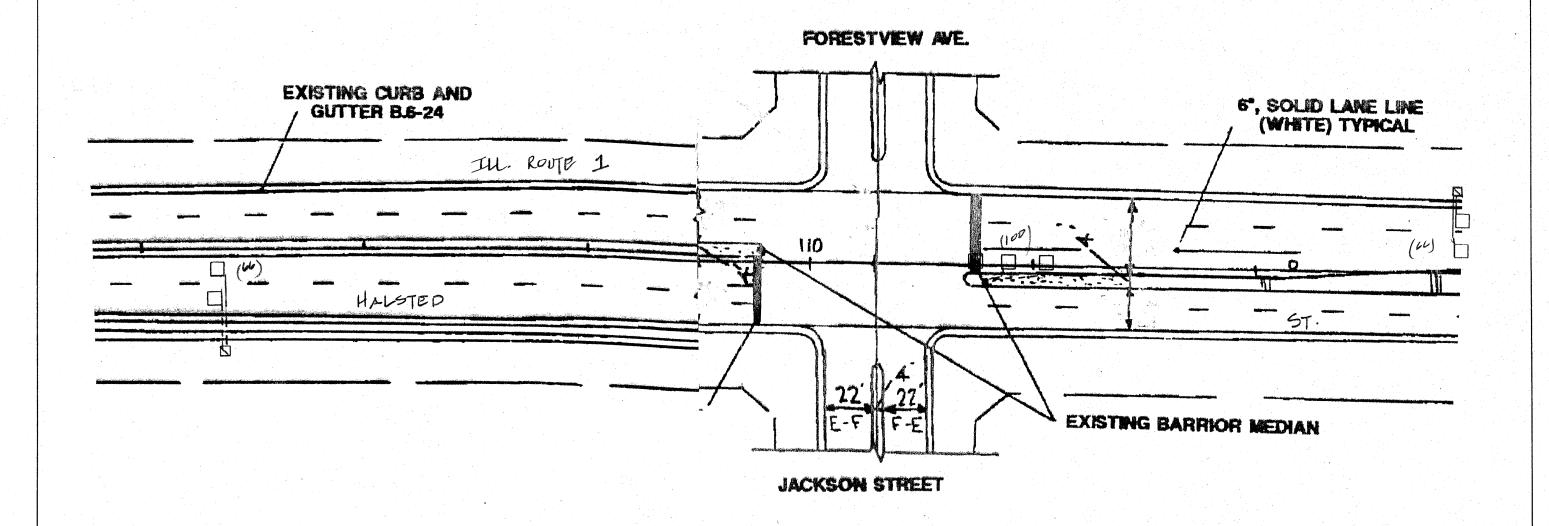
CODE QUANTITY UNIT ITEM

88600600 232 FOOT DETECTOR LOOP, REPLACEMENT



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.





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

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

CODE QUANTITY UNIT ITEM

88600600 Z3Z FOOT DETECTOR LOOP, REPLACEMENT

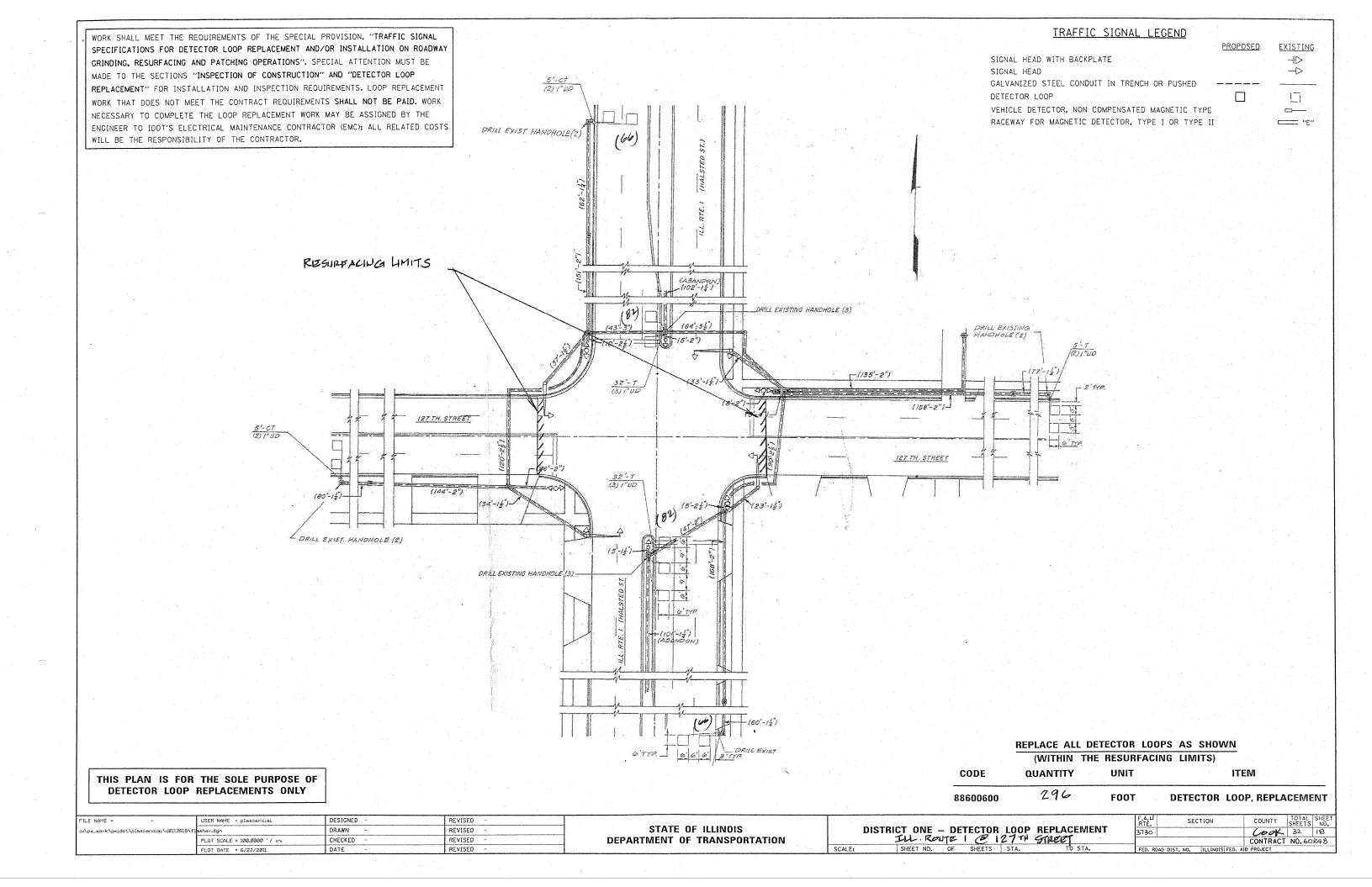
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| | PLOT SCALE = 100.0000 '/ in. | CHECKED - | REVISED - | DEPAI |
| | PLOT DATE = 6/22/2011 | DATE - | REVISED - | 1 |

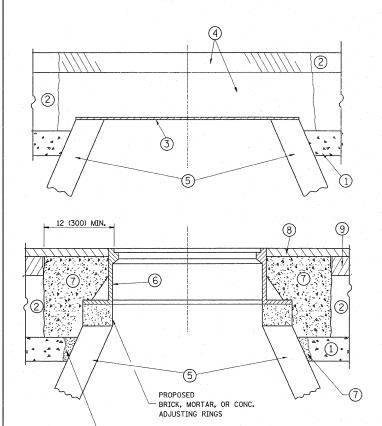
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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|---|------------|-----------|---------|-----------|-------------|--|
| I | DISTR | ICT ONE - | - DETEC | TOR LOOP | REPLACEMENT | |
| I | D.O | HALSTE | D STE | ZET PI | REPLACEMENT | |
| | SCALE: | SHEET NO. | OF SH | EETS STA. | TO STA. | |

F.A.LI SECTION COUNTY TOTAL SHEET NO. 3730 (1312,1314 + 3262) RS-5 COOK 32 17

CONTRACT NO. 60 R48





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 FAVEMENT 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
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM $1\frac{1}{2}$ (40) THICK HMA CURFACE 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.

LEGEND

- SUB-BASE GRANULAR MATERIAL
- (6) FRAME AND LID (SEE NOTES)
- 2 EXISTING PAVEMENT
- 7 CLASS PP-1* CONCRETE
- 3 36 (900) DIAMETER METAL PLATE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- (8) PROPOSED HMA SURFACE COURSE
- (5) 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: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL" NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

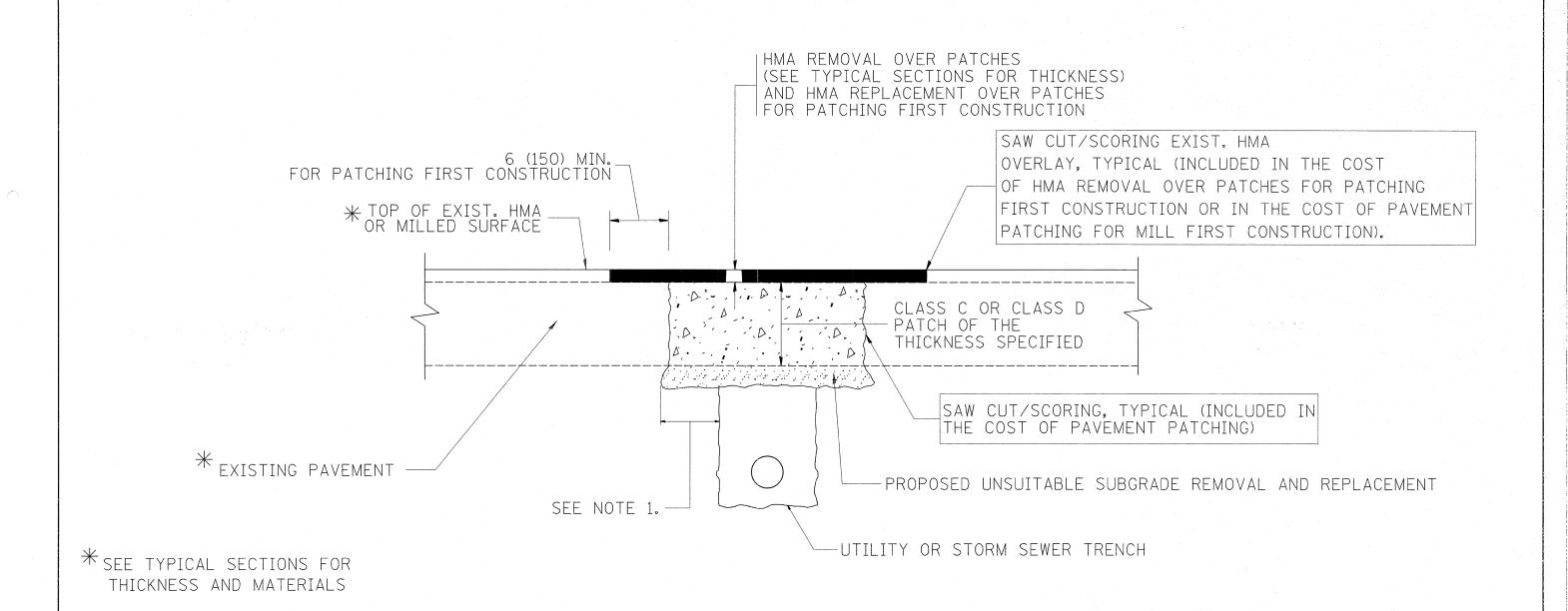
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

| FILE NAME = | USER NAME = abebawa | DESIGNED - R. SHAH | REVISED - A. ABBAS 03-21-97 |
|-------------------------------------|-----------------------------|--------------------|--------------------------------|
| c:\pw_work\pwidot\abebawa\d0284194\ | D!06211-sht-plan.dgn | DRAWN - | REVISED - R. WIEDEMAN 05-14-04 |
| | PLOT SCALE = 50.0000 '/ in. | CHECKED - | REVISED - R. BORO 01-01-07 |
| · | PLOT DATE ≈ 12/17/2011 | DATE - 10-25-94 | REVISED - R. BORO 03-09-11 |

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

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|-------------|-------------|------|-----------|-----------|---------|
| | FRAMES AND | LIDS | ADJUSTN | NENT WITH | MILLING |
| SCALE: NONE | SHEET NO. 1 | 0F 1 | SHEETS | STA. | TO |

SECTION COUNTY (1312,1314&3262) RS-5 COOK 3730 32 19 BD600-03 (BD-8) CONTRACT NO. 60R48



NOTES:

- 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)

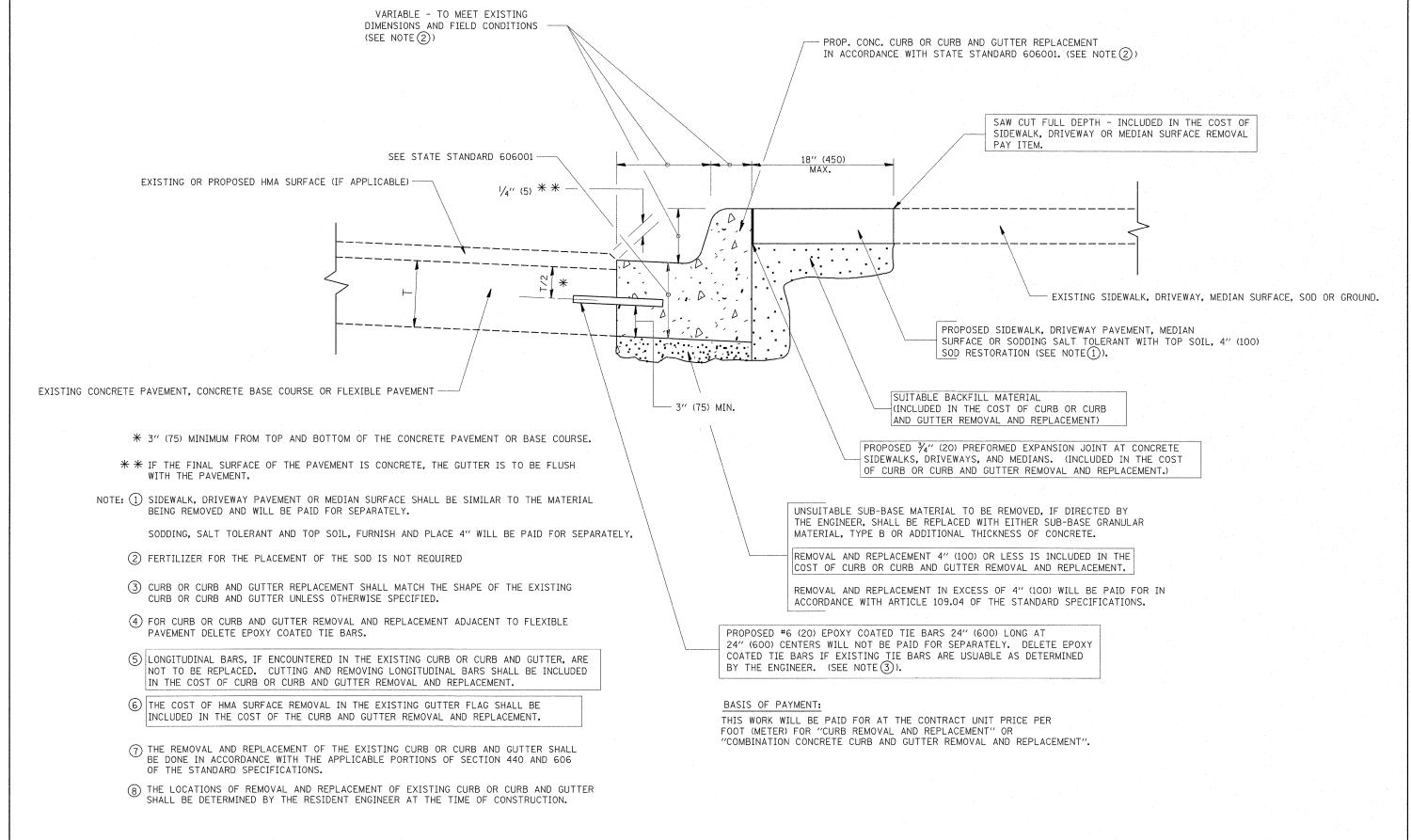
- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

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.

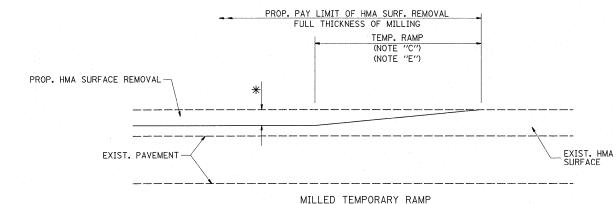
| FILE NAME = | USER NAME = abebawa | DESIGNED | - R. SHAH | REVISED - | A. ABBAS 04-27-98 | | | PAVEMENT PATCHING FOR | | F.A.U. | SECTION | COUNTY | TOTAL SHEET |
|-----------------------------------------|------------------------------|----------|------------|-----------|-------------------|------------------------------|-------------|------------------------------|---------|-----------|----------------------|-----------|-------------|
| c:\pw_work\pwidot\abebawa\dØ284194\D106 | 211-sht-plan.dgn | DRAWN | - | REVISED - | R. BORO 01-01-07 | STATE OF ILLINOIS | | | | 5730 (| 1312.1314&3262) RS-5 | соок | 32 20 |
| | PLOT SCALE = 50.00000 '/ in. | CHECKED | ··· | REVISED - | R. BORO 09-04-07 | DEPARTMENT OF TRANSPORTATION | * * * | HMA SURFACED PAVEMENT | | ВГ | 0400-04 (BD-22) | CONTRACT | T NO. 60R48 |
| | PLOT DATE = 12/17/2011 | DATE | - 10-25-94 | REVISED - | K. ENG 10-27-08 | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS STA. | TO STA. | FED. ROAD | | D PROJECT | |



CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

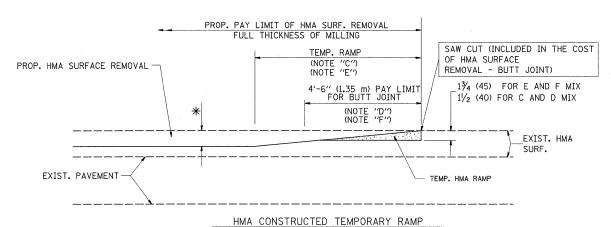
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

| FILE NAME = | USER NAME = abebawa | DESIGNED - A. HOUSEH | REVISED - | - R. SHAH 10-03-96 | | | CURB OR CURB AND GUTTE | | F.A.U. RTF. | SECTION | COUNTY | TOTAL | SHEET |
|-----------------------------------------|-----------------------------|----------------------|-----------|---------------------|------------------------------|-------------|------------------------------|---------|----------------|----------------------------------|-------------|---------|-------|
| c:\pw_work\pw1dot\abebawa\dØ284194\D1Ø6 | 211-sht-plan.dgn | DRAWN - | REVISED - | - A. ABBAS 03-21-97 | STATE OF ILLINOIS | | REMOVAL AND REPLACEMENT | | 3730 | (1312,1314&3262) RS-5 | COOK | 32 | 21 |
| | PLOT SCALE = 50.0000 '/ in. | CHECKED - | REVISED - | - M. GOMEZ 01-22-01 | DEPARTMENT OF TRANSPORTATION | | | | | BD600-06 (BD-24) | CONTRACT | T NO. 6 | JR48 |
| | PLOT DATE = 12/17/2011 | DATE - 03-11-94 | REVISED - | - R. BORO 12-15-09 | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS STA. | TO STA. | FED. RO | AD DIST. NO. 1 ILLINOIS FED. A | AID PROJECT | | |



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

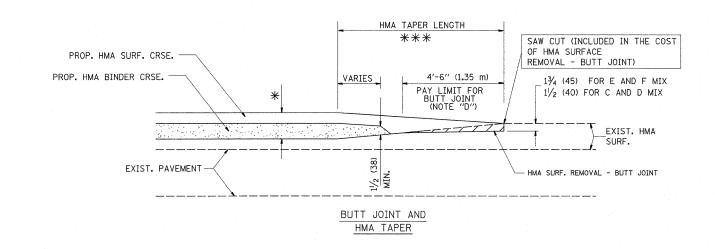
OPTION 1



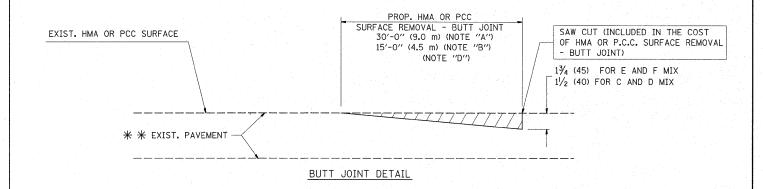
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

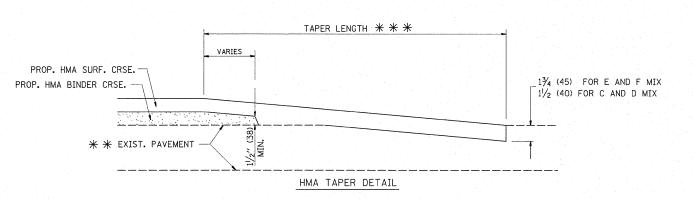
OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: 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.

BASIS OF PAYMENT:

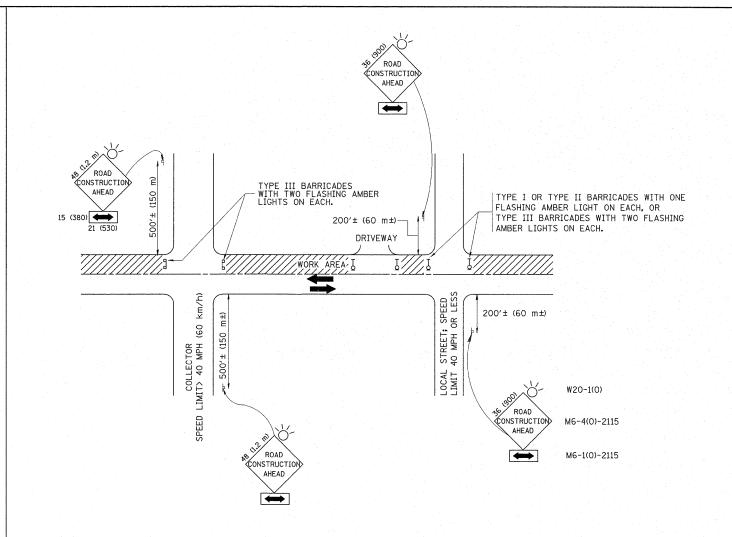
THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER)
FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

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

| FILE NAME = | USER NAME = abebawa | DESIGNED - | M. DE YONG | REVISED - | R. SHAH 10-25-94 |
|-----------------------------------------|-----------------------------|------------|------------|-----------|-------------------|
| c:\pw_work\pwidot\abebawa\d0284194\D106 | 211-sht-plan.dgn | DRAWN - | | REVISED - | A. ABBAS 03-21-97 |
| | PLOT SCALE = 50.0000 '/ in. | CHECKED - | | REVISED - | M. GOMEZ 04-06-01 |
| | PLOT DATE = 12/17/2011 | DATE - | 06-13-90 | REVISED - | R. BORO 01-01-07 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | BUT | TOINT A | AND | | F.A.U. RTE. | SECTION | COUNTY | SHEETS | SHEET NO. |
|-------------|-------------|-------|----------|-------|---------|----------------|----------------------------------|-----------|--------|--------------|
| | | HMA 1 | TAPER DE | TAILS | | 3730 | (1312,1314&3262) RS-5 | COOK | 32 | 22 |
| | <u> </u> | пим | IAPEN DE | IAILO | | | BD400-05 BD32 | CONTRACT | NO. 60 | R48 |
| SCALE: NONE | SHEET NO. 1 | OF 1 | SHEETS | STA. | TO STA. | FED. R | DAD DIST. NO. 1 ILLINOIS FED. AT | D PROJECT | | |



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. 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:
- d) 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:
- a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 × 48 (1.2 m × 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500° (150 m) IN ADVANCE OF THE MAIN POLITE
- 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.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

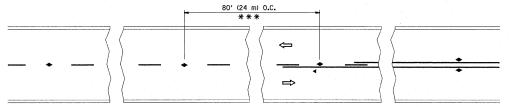
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL 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 = abebawa | DESIGNED - | LHA | REVISED | - J. OBERLE 10-18-95 |
|-----------------------------------------|-----------------------------|------------|-------|---------|------------------------|
| c:\pw_work\pwidot\abebawa\d0284194\D106 | 11-sht-plan.dgn | DRAWN - | | REVISED | - A. HOUSEH 03-06-96 |
| | PLOT SCALE = 50.0000 '/ in. | CHECKED - | | REVISED | - A. HOUSEH 10-15-96 |
| | PLOT DATE = 12/17/2011 | DATE - | 06-89 | REVISED | -T. RAMMACHER 01-06-00 |

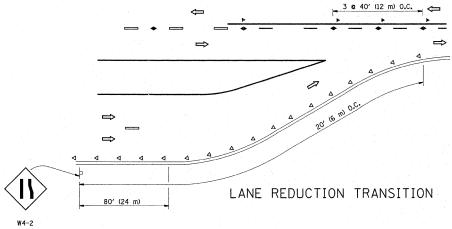
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

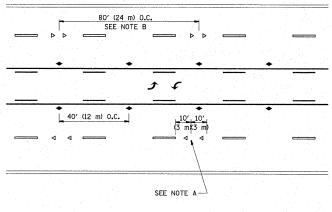
| | TRAFFIC | CONTR | OL AND P | ROTEC | TION FOR | |
|-------------|-------------|----------|-----------|-------|----------|----|
| | SIDE ROAD | S, INTEI | RSECTIONS | , AND | DRIVEWAY | S |
| SCALE: NONE | SHEET NO. 1 | OF 1 | SHEETS | STA. | | TO |



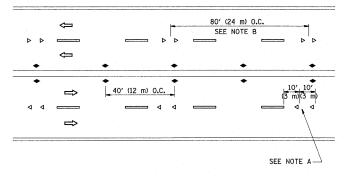
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

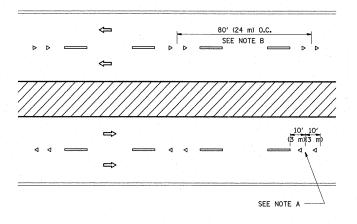




TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

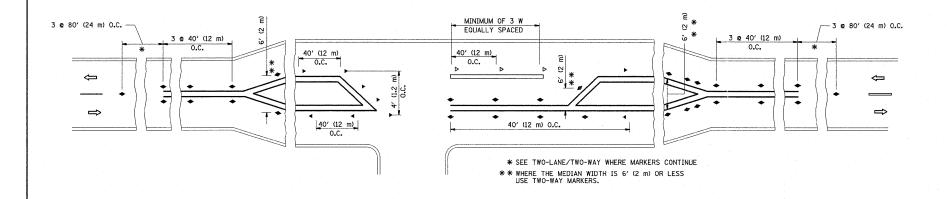
- 1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
- 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- 3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE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

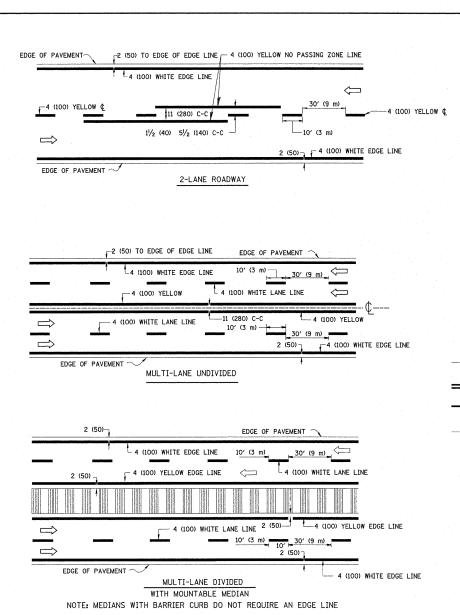
- ---- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- → ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER



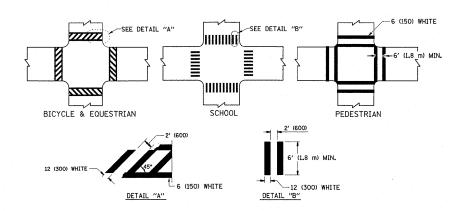
LEFT TURN

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

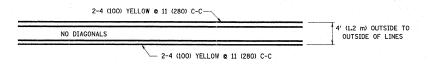
| FILE NAME = | USER NAME = abebawa | DESIGNED - | REVISED -T. RAMMACHER 09-19-94 | | TYPICAL APPLICATIONS | F.A.U. SECTION COL | OUNTY TOTAL SHEET |
|-----------------------------------------|-----------------------------|------------|--------------------------------|------------------------------|----------------------------------------------------------|---------------------------------------------------|-------------------|
| c:\pw_work\pwidot\abebawa\d0284194\D106 | 11-sht-plan.dgn | DRAWN - | REVISED -T. RAMMACHER 03-12-99 | STATE OF ILLINOIS | | 3730 (1312,1314&3262) RS-5 CO | COOK 32 24 |
| İ | PLOT SCALE = 50.0000 1/ an. | CHECKED - | REVISED -T. RAMMACHER 01-06-00 | DEPARTMENT OF TRANSPORTATION | RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) | | NTRACT NO. 60R48 |
| | PLOT DATE = 12/17/2011 | DATE - | REVISED - C. JUCIUS 09-09-09 | | SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJE | |



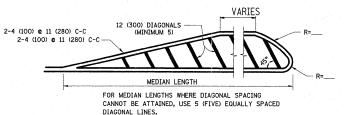
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

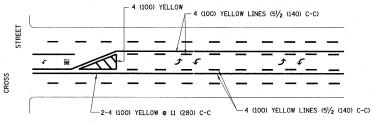


4' (1.2 m) WIDE MEDIANS ONLY

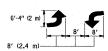


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

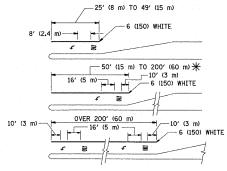


. A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

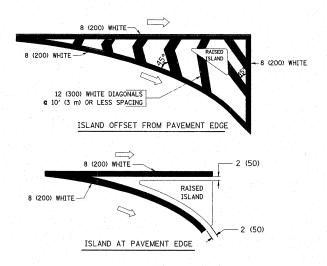


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SO. FT. (1.5 m²) OMLY AREA = 20.8 SO. FT. (1.9 m²)

* 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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

| 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 | 5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) 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' (500) APART 2' (500) APART SEE 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 | DIACONALS: 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 ml 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 SQ. FT. (5.0 m²) |
| SHOULDER DIAGONALS | 12 (300) c 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)) |

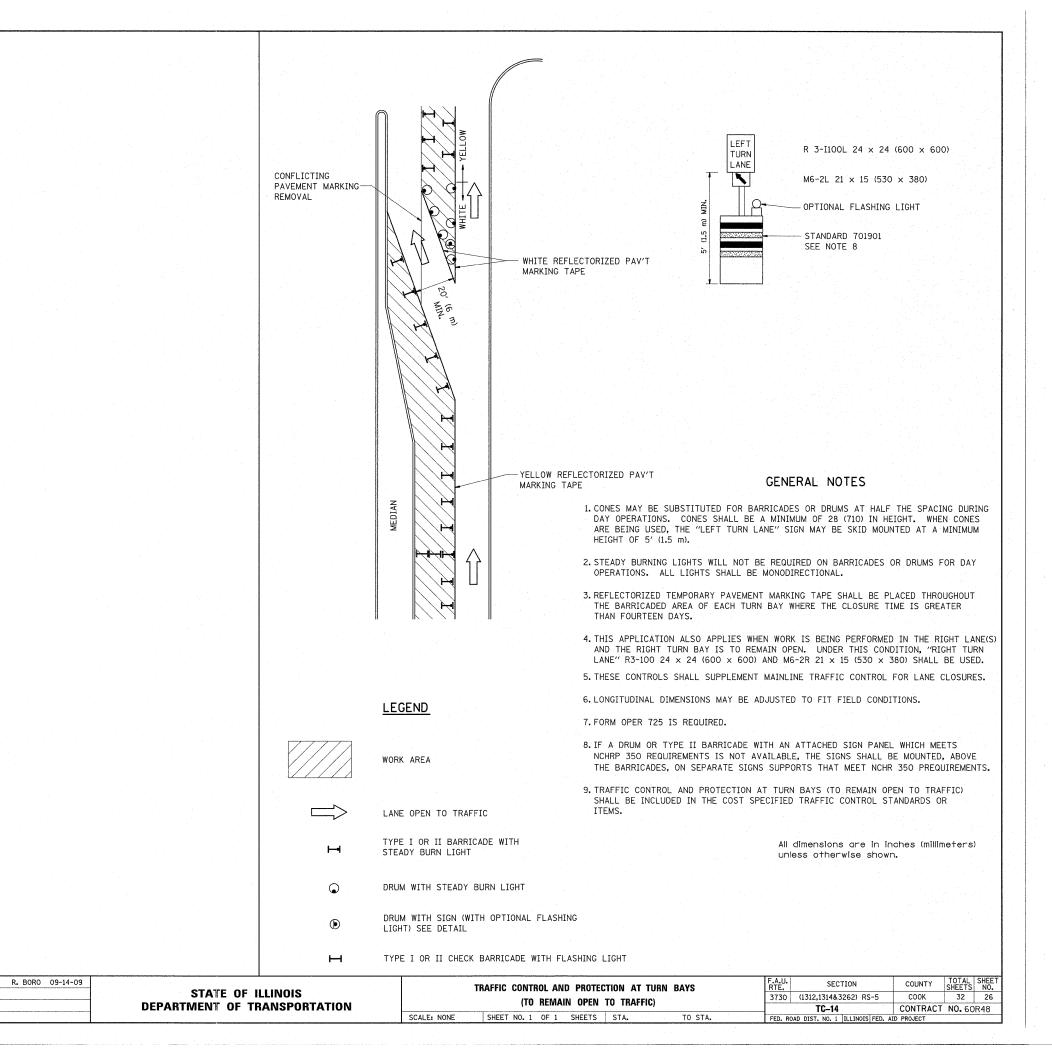
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

| I | FILE NAME = | USER NAME = abebawa | DESIGNED | - | EVERS | REVISED | -т. | RAMMACHER | 10-27-94 |
|---|-----------------------------------------|------------------------------|----------|---|----------|---------|------|-----------|----------|
| ı | c:\pw_work\pwidot\abebawa\d0284194\D106 | ll-sht-plan.dgn | DRAWN | - | | REVISED | - C. | JUCIUS | 09-09-09 |
| ı | | PLOT SCALE = 50.00000 '/ in. | CHECKED | - | | REVISED | - | | |
| | | PLOT DATE = 12/17/2011 | DATE | - | 03-19-90 | REVISED | | | |

| STATE | OF | ILLINOIS |
|------------|----|----------------|
| DEPARTMENT | OF | TRANSPORTATION |

| 1 | DISTRICT O | NE | | F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|----------------|-------------------------|-----------|---------|----------------|--------------------------------|------------|-----------------|--------------|
| TYPICAL PAVEME | | MADVINGS | | 3730 | (1312,1314&3262) RS-5 | COOK | 32 | 25 |
| | TITICAL PAVENCINI | MIMINIMOS | | | TC-13 | CONTRACT | NO. 6 | OR48 |
| SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. | FED. RO | AD DIST. NO. 1 ILLINOIS FED. A | ID PROJECT | | |



REVISED -T. RAMMACHER 09-08-94 REVISED

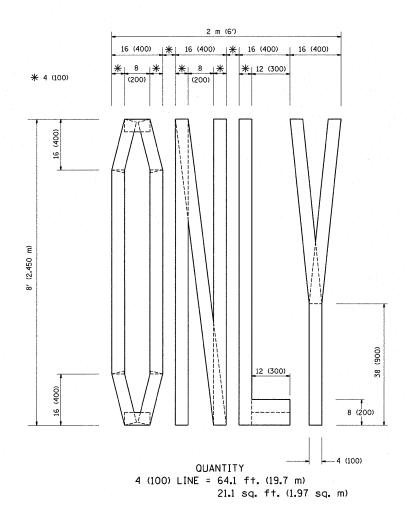
REVISED - A. HOUSEH 11-07-95 REVISED

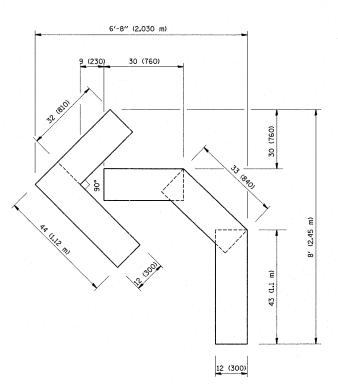
REVISED -T. RAMMACHER 01-06-00 REVISED

FILE NAME =

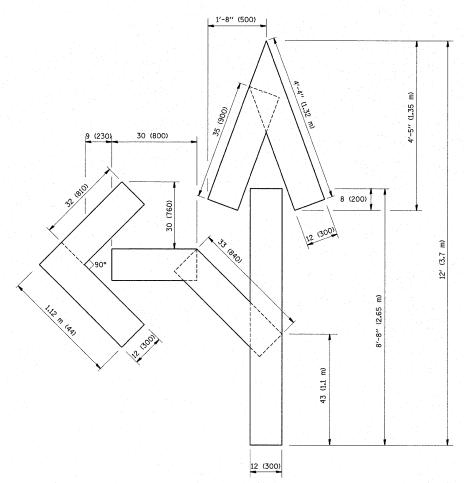
:\pw_work\pwidot\ababawa\d0284194\D106211-sht-plan.dqn

PLOT DATE = 12/17/2011





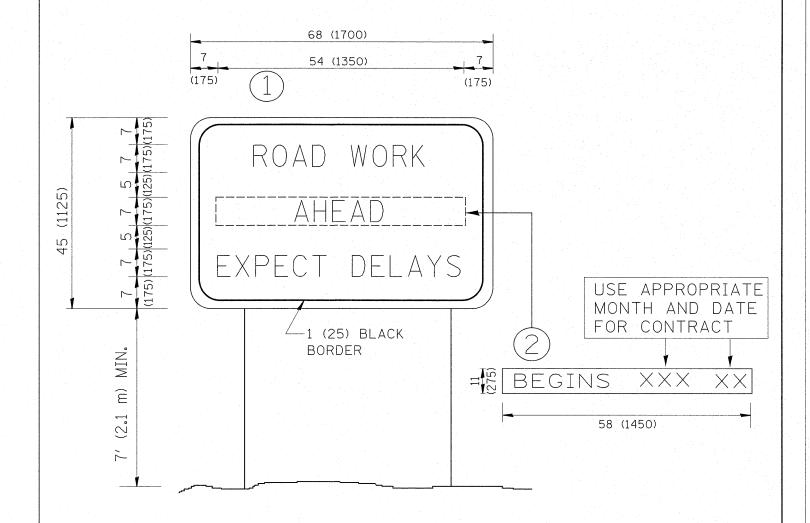
OUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)



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.

| Γ | FILE NAME = | USER NAME = abebaxa | DESIGNED - | REVISED -T. RAMMACHER 06-05-96 | | PAVEMENT MARKING LETTERS AND SYMBOLS | F.A.U. | SECTION | COUNTY TOTAL SHEET |
|---|-----------------------------------------|------------------------------|-----------------|--------------------------------|------------------------------|--------------------------------------------------|--------|------------------------------------|--------------------|
| | c:\pw_work\pwidot\abebawa\d0284194\D106 | 211-sht-plan.dgn | DRAWN - | REVISED -T. RAMMACHER 11-04-97 | STATE OF ILLINOIS | | 3730 | (1312,1314&3262) RS-5 | COOK 32 27 |
| | | PLOT SCALE = 50.00000 '/ in. | CHECKED - | REVISED -T. RAMMACHER 03-02-98 | DEPARTMENT OF TRANSPORTATION | FOR TRAFFIC STAGING | | TC-16 | CONTRACT NO. 60R48 |
| L | | PLOT DATE = 12/17/2011 | DATE - 09-18-94 | REVISED -E. GOMEZ 08-28-00 | | SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. | FED. | ROAD DIST. NO. 1 ILLINOIS FED. A | |

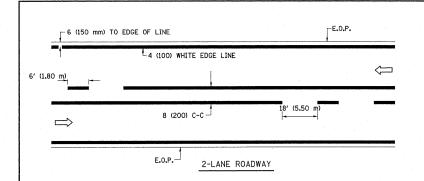


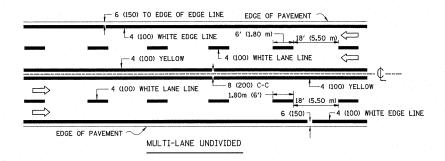
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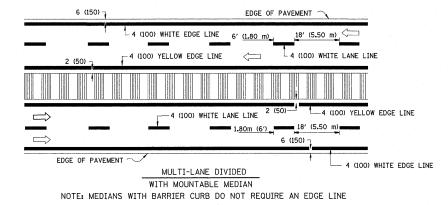
- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL 2 SOON AFTER THE START 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.

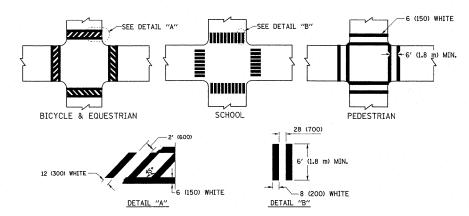
| FILE NAME = | USER NAME = abebawa | DESIGNED - | REVISED - R. MIRS 09-15-97 | | | ARTERIAL ROAD | | F.A.U. | SECTION | COUNTY | TOTAL S | HEET |
|----------------------------------|------------------------------|------------|--------------------------------|------------------------------|-------------|------------------------------|---------|-----------|-----------------------|-------------|-----------|------|
| c:\pw_work\pwidot\abebawa\dØ2841 | 94\D106211-sht-plan.dgn | DRAWN - | REVISED - R. MIRS 12-11-97 | STATE OF ILLINOIS | 1 | | | 3730 | (1312.1314&3262) RS-5 | соок | 32 | 28 |
| | PLOT SCALE = 50.0000 ' / in. | CHECKED - | REVISED -T. RAMMACHER 02-02-99 | DEPARTMENT OF TRANSPORTATION | | INFORMATION SIGN | | | TC-22 | CONTRACT | T NO. 60P | |
| | PLOT DATE = 12/17/2011 | DATE - | REVISED - C. JUCIUS 01-31-07 | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS STA. | TO STA. | FED. ROAD | | AID PROJECT | | |



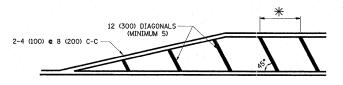




TYPICAL LANE AND EDGE LINE MARKING

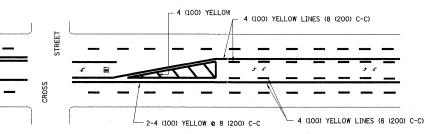


TYPICAL CROSSWALK MARKING

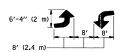


- *FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.
- * DIAGONAL LINE SPACING: 20' (6.1 m) C-C

PAINTED MEDIANS

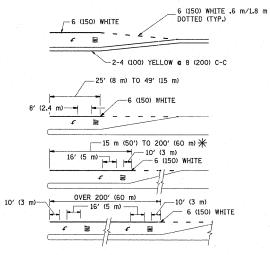


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

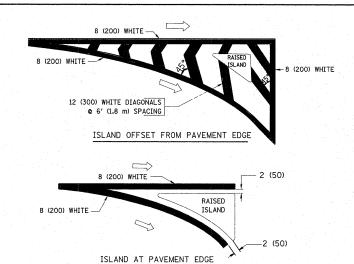


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.8 SQ. FT. (1.47 m²) ONLY AREA = 22.9 SQ. FT. (2.13 m²)

* 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

| TYPE OF MARKING | WIDTH OF LINE | PATTERN | COLOR | SPACING / REMARKS |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CENTERLINE ON 2 LANE PAVEMENT | 4 (100) | SKIP-DASH | YELLOW | 6' (1.80 m) LINE WITH 18' (5.50 m) SPACE |
| ENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT | 2 & 4 (100) | SOLID | YELLOW | 8 (200) C-C |
| IO PASSING ZONE LINES: OR ONE DIRECTION OR BOTH DIRECTIONS | 4 (100) 2 2 4 (100) | SOLID SOLID | YELLOW | 8 (200) C-C |
| ANE LINES | 4 (100) 5 (125) ON FREEWAYS | SKIP-DASH SKIP-DASH | WHITE WHITE | 6' (1.80 m) LINE WITH 18' (5.50 m) SPACE |
| OTTED LINES EXTENSIONS OF CENTER, LANE OR 'URN LANE MARKINGS) | SAME AS LINE BEING EXTENDED | SKIP-DASH | SAME AS LINE BEING EXTENDED | 2' (600) LINE WITH 6' (1.8) SPACE |
| DGE LINES | 4 (100) | SOLID | YELLOW-LEFT WHITE-RIGHT | OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB |
| URN LANE MARKINGS | 6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4 m)) | SOLID | WHITE | SEE TYPICAL TURN LANE MARKING DETAIL |
| WO WAY LEFT TURN MARKING | 2 & 4 (100) EACH DIRECTION | SKIP-DASH AND SOLID | YELLOW | 6' (1.8 m) LINE WITH 18' (5.50 m) SPACE FOR SKIP-DASH; 8 (200) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE |
| | 8' (2.4 m) LEFT ARROW | IN PAIRS | WHITE | SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL |
| ROSSWALK LINES (PEDESTRIAN) . DIAGONALS (BIKE & EQUESTRIAN) . LONGITUDINAL BARS (SCHOOL) | 2 @ 6 (150) 12 (300) @ 45° 8 (200) @ 90° | SOLID SOLID SOLID | WHITE WHITE WHITE | NOT LESS THAN 6' (1.8 m) APART 2' (500) APART 2'-4" (700) APART SEE TYPICAL CROSSWALK MARKING DETAILS. |
| TOP 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 |
| AINTED MEDIANS | 2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° | SOLID | YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC | 8 (200) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING. |
| ORE MARKING AND HANNELIZING LINES | 8 (200) WITH 12 (300) DIAGONALS @ 45° | SOLID | WHITE | DIAGONALS: 20' (6.1 m) (LESS THAN 30 MPH (50 km/h)) |
| AILROAD 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. (0.33m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²) |

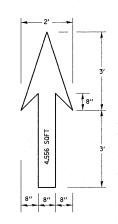
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STREET MARKING STANDARDS, PRINTED BY CITY OF CHICAGO, DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC.

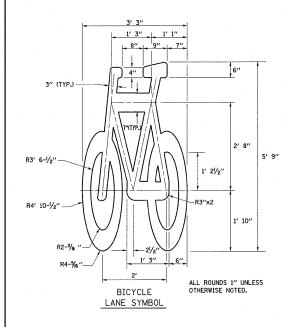
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

| FILE NAME = | USER NAME = abebawa | DESIGNED - | REVISED | -T. RAMMACHER 12-07-00 |
|-----------------------------------------|-----------------------------|------------|---------|------------------------|
| c:\pw_work\pwidot\abebawa\dØ284194\D1Ø6 | 11-sht-plan.dgn | DRAWN - | REVISED | |
| | PLOT SCALE = 50.0000 '/ in. | CHECKED - | REVISED | - |
| | PLOT DATE = 12/17/2011 | DATE - | REVISED | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

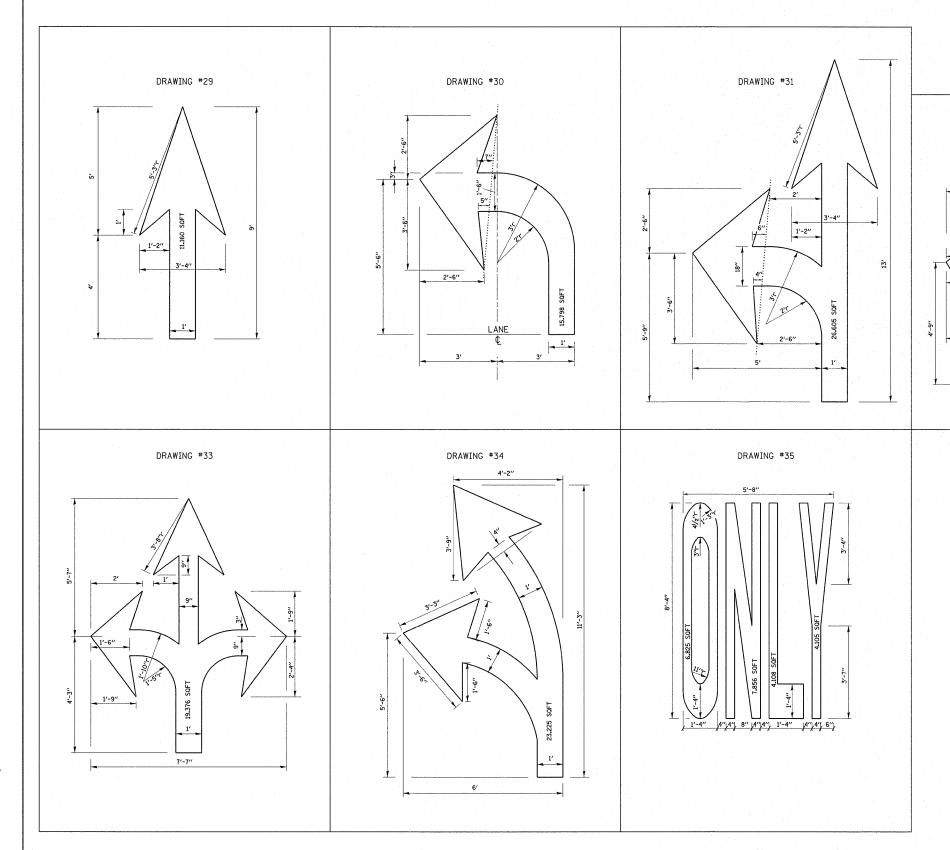
| - | CITY OF CHICAGO | F.A.U. RTE. | SECTION | COUNTY TOTA | | SHEET NO. |
|---|-------------------------------------------------------------------------------------------------|----------------|-----------------------|-------------|--------|--------------|
| ı | TYPICAL PAVEMENT MARKINGS | 3730 | (1312,1314&3262) RS-5 | соок | 32 | 29 |
| | | | TC-24 | CONTRACT | NO. 60 | DR48 |
| | CALE: NONE SHEET NO. 1 OF 2 SHEETS STA. TO STA. FED. ROAD DIST, NO. 1 ILLINOIS FED. AID PROJECT | | | | | |





- NOTE:
 1.) FOR BIKE LANE SYMBOLS ONLY, USE PRE-FORMED THERMOPLASTIC WITH A MINIMUM THICKNESS OF 90 MILS, MINIMUM SKID RESISTANCE VALUE OF 60 BPN, & A MINIMUM INDEX OF REFRACTION OF 1.50.
- 2.) THE RESIDENT ENGINEER SHALL CONTACT MR. BEN GOMBERG AT 312-744-8093 AT LEAST ONE CALENDAR WEEK PRIOR TO INSTALLING BIKE LANE SYMBOLS.

TYPICAL BIKE LANE SYMBOLS DRAWING #28



DRAWING #32

NOTE:

PLANS

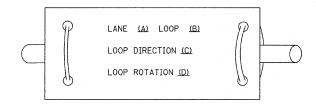
ALL MARKINGS SHALL BE SOLID WHITE UNLESS OTHERWISE NOTED IN THE

| FILE NAME = | USER NAME = abebawa | DESIGNED - | REVISED - T. RAMMACHER 12-07-00 | | | CITY OF CHICAGO | F.A.U. SECTION | COUNTY TOTAL SHEET |
|-----------------------------------------|-----------------------------|------------|---------------------------------|------------------------------|---------------------------|--------------------------------------|---------------------------------------|--------------------|
| c:\pw_work\pwidot\abebawa\d0284194\D106 | li-sht-plan.dgn | DRAWN - | REVISED - | STATE OF ILLINOIS | | | 3730 (1312,1314&3262) RS-5 | COOK 32 30 |
| | PLOT SCALE = 50.0000 '/ in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | TYPICAL PAVEMENT MARKINGS | | TC-24 | CONTRACT NO. 60R48 |
| | PLOT DATE = 12/17/2011 | DATE - | REVISED - | | SCALE: NONE | SHEET NO. 2 OF 2 SHEETS STA. TO STA. | FED. ROAD DIST. NO. 1 ILLINOIS FED. A | |

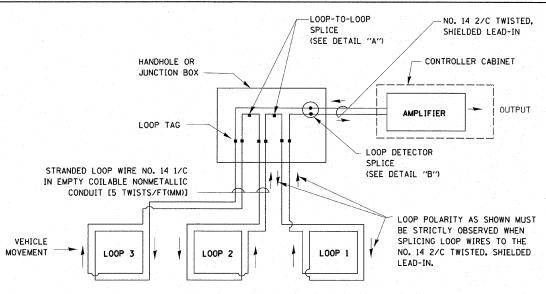
LOOP DETECTOR NOTES

- 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

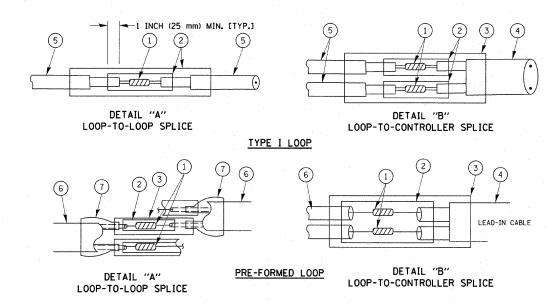


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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.



COOK

CONTRACT NO. 60R48

32 31A

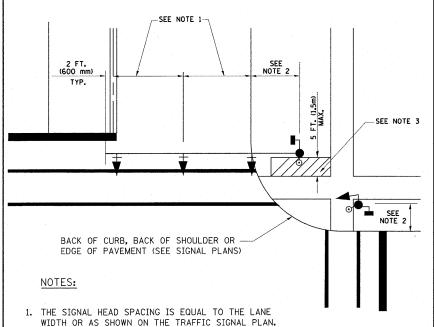
LOOP DETECTOR SPLICE

- $\ensuremath{\textcircled{1}}$ western union splice soldered with rosin core flux. All exposed surfaces of the solder shall be smooth.
- (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.
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- (6) PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR
- BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

| FILE NAME = | USER NAME = abebawa | DESIGNED - DAD | REVISED - | | DISTRICT ONE | F.A.U. SECTION | COUNTY |
|-----------------------------------------|-----------------------------|-----------------|-----------|------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------|---------|
| c:\pw_work\pwidot\abebawa\dØ284194\DlØ6 | 11-sht-plan.dgn | DRAWN - BCK | REVISED - | STATE OF ILLINOIS | li a caracteria de la car | 3730 (1312,1314&3262) RS-5 | соок |
| | PLOT SCALE = 50.0000 '/ in. | CHECKED - DAD | REVISED - | DEPARTMENT OF TRANSPORTATION | STANDARD TRAFFIC SIGNAL DESIGN DETAILS | TS05 | CONTRAC |
| | PLOT DATE = 12/17/2011 | DATE - 10-28-09 | REVISED - | | SCALE: NONE SHEET NO. 1 OF 6 SHEETS STA. TO STA. | FED. ROAD DIST. NO. 1 ILLINOIS FED. | |

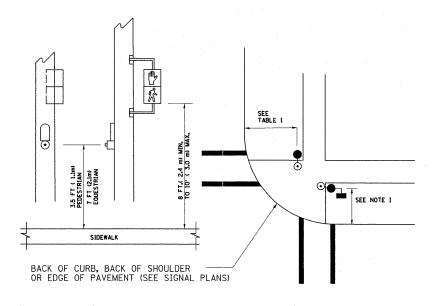
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



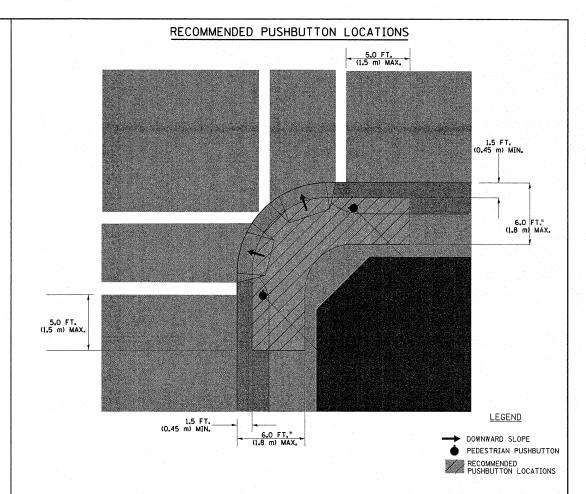
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

- 1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
- THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES,"



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- ** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

- PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
- 2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
- 3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT
- 4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
- 5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

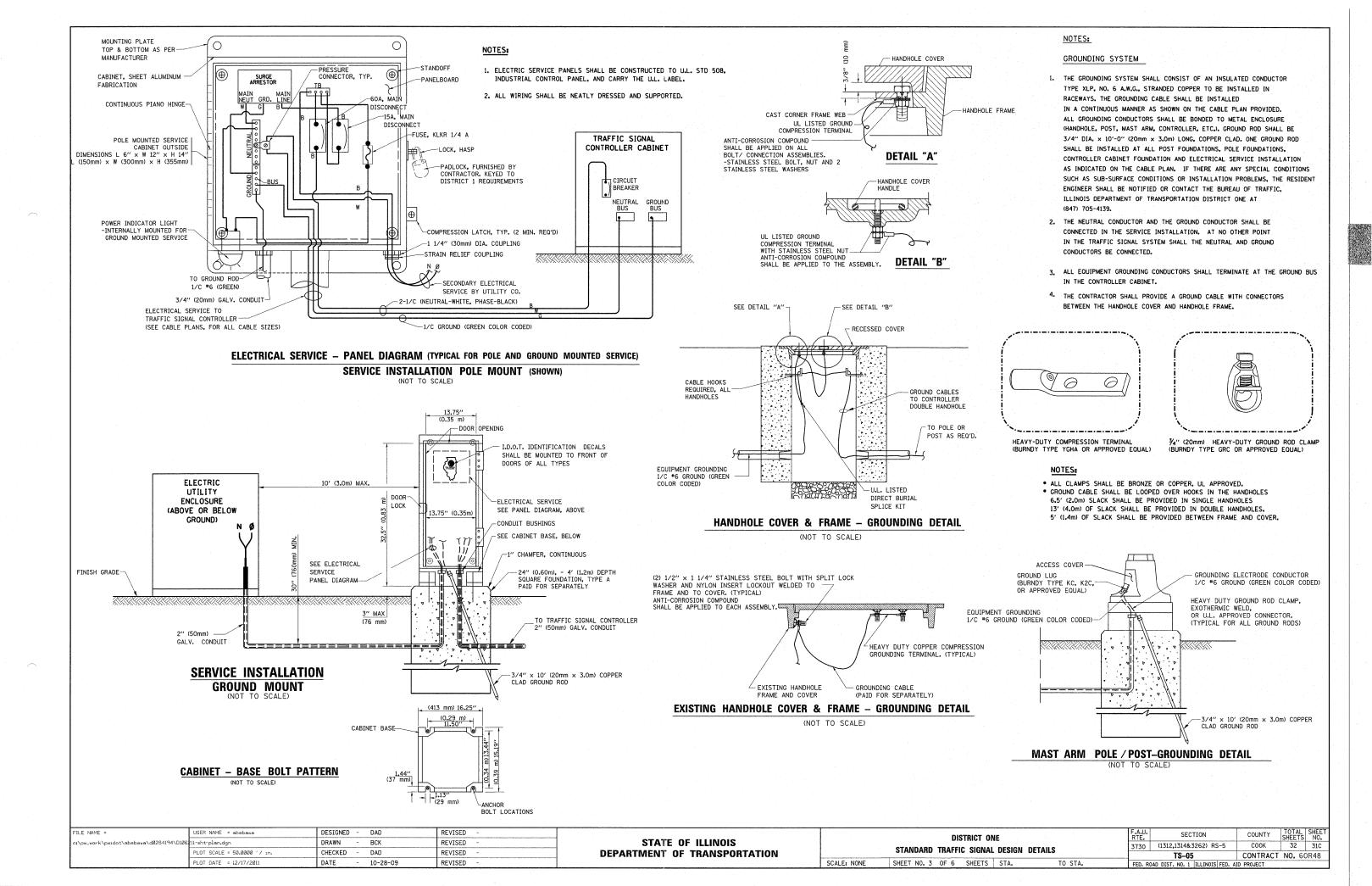
TRAFFIC SIGNAL EQUIPMENT OFFSET

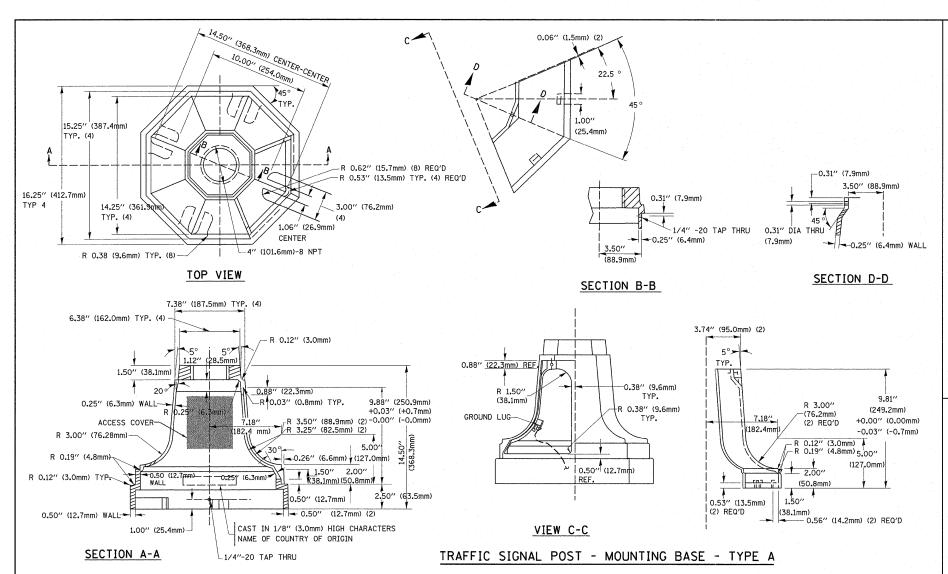
| TRAFFIC SIGNAL EQUIPMENT | COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION) | SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION) |
|---------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| TRAFFIC SIGNAL MAST ARM POLE | 6 FT (1.8m) | SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m) |
| TRAFFIC SIGNAL POST | 4 FT (1.2m) | SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m) |
| PEDESTRIAN SIGNAL POST | 4 FT (1.2m) | SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m) |
| PEDESTRIAN PUSHBUTTON POST | 4 FT (1.2m) | SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m) |
| TEMPORARY WOOD POLE | 6 FT (1.8m) | SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m) |
| CONTROLLER CABINET | 6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2 | SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3. |
| SERVICE INSTALLATION, GROUND MOUNT | 6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2 | SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3. |

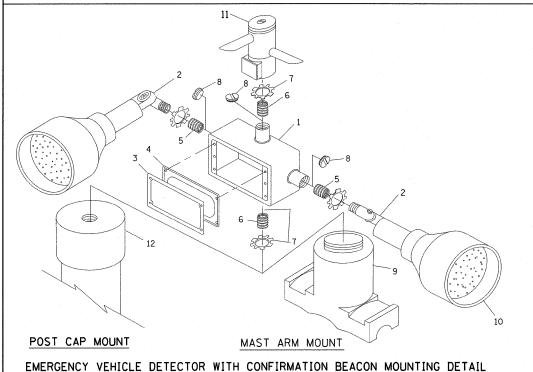
NOTES:

- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
- 3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
- 4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

| | | | | | | | | | | | - 1 |
|-----------------------------------------|-----------------------------|-----------------|-----------|------------------------------|-------------|----------------------------------------|-------|-------------------------|-------------|-----------|-------|
| FILE NAME = · | USER NAME = abebawa | DESIGNED - DAD | REVISED - | | | DISTRICT ONE | F.A.L | SECTION | COUNTY | TOTAL | SHEET |
| c:\pw_work\pwidot\abebewa\d0284194\D106 | ll-sht-plan.dgn | DRAWN - BCK | REVISED - | STATE OF ILLINOIS | | | 3730 |) (1312.1314&3262) RS-5 | соок | 32 | 31B |
| | PLOT SCALE = 50.0000 '/ in. | CHECKED - DAD | REVISED - | DEPARTMENT OF TRANSPORTATION | | STANDARD TRAFFIC SIGNAL DESIGN DETAILS | | TS-05 | CONTRAC | T NO. 60F | ₹48 |
| | PLOT DATE = 12/17/2011 | DATE - 10-28-09 | REVISED - | | SCALE: NONE | SHEET NO. 2 OF 6 SHEETS STA. TO STA. | FED. | | AID PROJECT | | |







PLOT SCALE = 50,0000 '/ in

PLOT DATE = 12/17/2011

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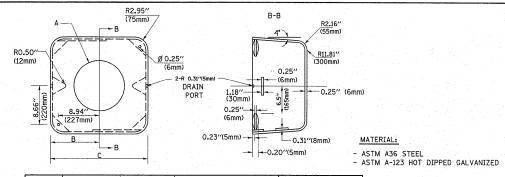
FILE NAME =

| ITEM | NO. IDENTIFICATION |
|------|---------------------------------------------|
| 1 | OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M) |
| 2 | LAMP HOLDER AND COVER |
| 3 | OUTLET BOX COVER |
| 4 | RUBBER COVER GASKET |
| 5 | REDUCING BUSHING |
| 6 | 3/4"(19 mm) CLOSE NIPPLE |
| 7 | ¾′′(19 mm) LOCKNUT |
| 8 | 3/4"(19 mm) HOLE PLUG |
| 9 | SADDLE BRACKET - GALV. |
| 10 | 6 WATT PAR 38 LED FLOOD LAMP |
| 11 | DETECTOR UNIT |
| 12 | POST CAP [18 FT. (5.4 m) POST MIN.] |

NOTES:

- ALL ELECTRICAL ITEMS, EXCEPT ITEMS *2 AND *11 SHALL BE ALUMINUM OR GALVANIZED
- 2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
 ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
 ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM *9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4"(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

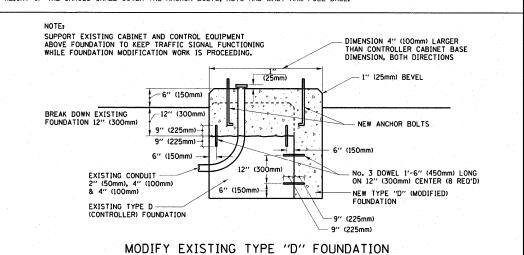


| Α | В | C | HEIGHT | WEIGHT |
|--------|---------------|--------------|--------------------------|-----------------|
| VARIES | 9.5"(241mm) | 19"(483mm) | 7" (178mm) - 12" (300mm) | 53 lbs (24kg) |
| VARIES | 10.75"(273mm) | 21.5"(546mm) | 7" (178mm) - 12" (300mm) | 68 lbs (31 kg) |
| VARIES | 13.0"(330mm) | 26"(660mm) | 7" (178mm) - 12" (300mm) | 81 lbs (37 kg) |
| VARIES | 18.5"(470mm) | 37"(940mm) | 7" (178mm) - 12" (300mm) | 126 lbs (57 kg) |

SHROUD

NOTES:

- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD.
 THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- 2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- 3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.



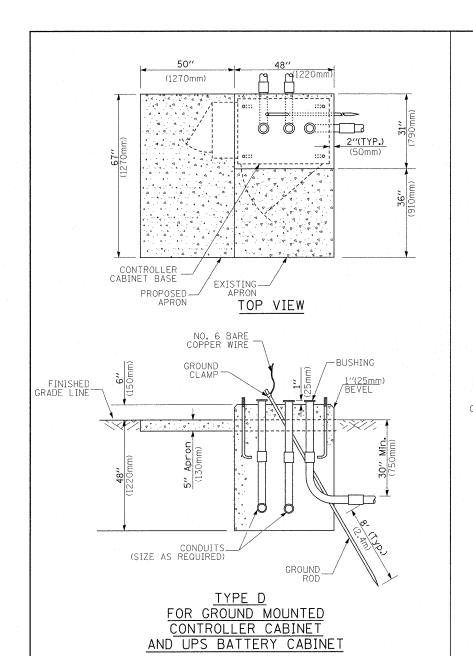
CALVANIZED STEEL HOOKS 21 1/2" MIN. (545mm) CONDUIT BUSHING EXISTING CONDUIT TO BE REMOVED CONDUIT BUSHING EXISTING CONDUIT TO REMAIN ELEVATION

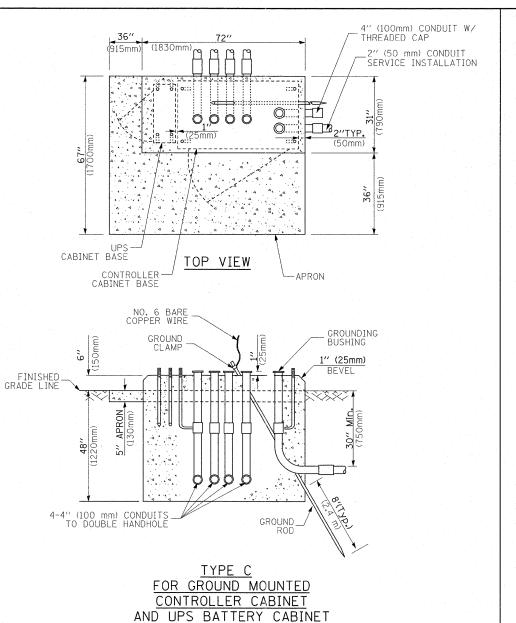
NOTES:

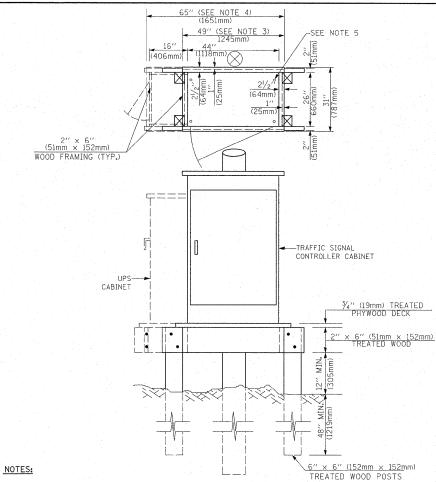
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

| ** | DISTRICT ONE | | F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|----------------------------------------|------|----------------|---------------------------------|-----------|-----------------|--------------|
| | STANDARD TRAFFIC SIGNAL DESIGN DETAILS | | 3730 | (1312,1314&3262) RS-5 | COOK | 32 | 31D |
| | | | TS-05 | CONTRACT | NO. 60 | R48 | |
| SCALE: NONE | SHEET NO. 4 OF 6 SHEETS STA. TO | STA. | FED. RC | AD DIST. NO. 1 ILLINOIS FED. AI | D PROJECT | | |







- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm).
 ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" \times 25" (406mm \times 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- 4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- 5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- 6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

| CABLE SLACK LENGTH | FEET | METER |
|---------------------------------------------------|------|-------|
| HANDHOLE | 6.5 | 2.0 |
| DOUBLE HANDHOLE | 13.0 | 4.0 |
| SIGNAL POST | 2.0 | 0.6 |
| MAST ARM | 2.0 | 0.6 |
| CONTROLLER CABINET | 1.5 | 0.5 |
| FIBER OPTIC AT CABINET | 13.0 | 4.0 |
| ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION) | 1.5 | 0.5 |
| GROUND CABLE (SIGNAL POST, MAST ARM, CABINET) | 1.5 | 0.5 |
| GROUND CABLE (BETWEEN FRAME AND COVER) | 5.0 | 1.6 |

CABLE SLACK

| VERTICAL CABLE LENGTH | FEET | METER |
|-----------------------------------------------------------------------------------|--------|-------|
| MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) | | |
| (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM) | 20.0+L | 6.0+L |
| BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE) | 13.0 | 4.0 |
| PEDESTRIAN PUSH BUTTON | 6.0 | 2.0 |
| SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP | 13.5 | 4.1 |
| SERVICE INSTALLATION POLE MOUNT TO GROUND | 13.5 | 4.1 |
| SERVICE INSTALLATION GROUND MOUNT | 6.0 | 2.0 |
| FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT) | 3.0 | 1.0 |

| , | VERT | ICAL | CABLE | LENGTH |
|---|------|------|-------|--------|
| | | | | |

| FOUNDATION | DEPTH | | |
|-----------------------------------------------------------|--------------|--|--|
| TYPE A - Signal Post | 4'-0" (1.2m) | | |
| TYPE C - CONTROLLER W/ UPS | 4'-0" (1.2m) | | |
| TYPE D - CONTROLLER | 4'-0" (1.2m) | | |
| SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE | 4'-0" (1.2m) | | |

DEPTH OF FOUNDATION

| Mast Arm Length | ① Foundation Depth | Foundation Diameter | Spiral Diameter | Quantity of Rebars | Size of Rebars |
|------------------------------------------------------------------------------------------|-----------------------|------------------------|--------------------|-----------------------|-------------------|
| Less than 30' (9.1 m) | 10'-0" (3.0 m) | 30" (750mm) | 24" (600mm) | 8 | 6(19) |
| Greater than or equal to | 13'-6" (4.1 m) | 30" (750mm) | 24" (600mm) | 8 | 6(19) |
| 30' (9.1 m) and less than 40' (12.2 m) | 11'-0'' (3.4 m) | 36" (900mm) | 30" (750mm) | 12 | 7(22) |
| Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m) | 13'-0" (4.0 m) | 36" (900mm) | 30" (750mm) | 12 | 7(22) |
| Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m) | 15'-0" (4.6 m) | 36" (900mm) | 30" (750mm) | 12 | 7(22) |
| Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m) | 21'-0" (6.4 m) | 42" (1060mm) | 36" (900mm) | 16 | 8(25) |
| Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m) | 25'-0" (7.6 m) | 42" (1060mm) | 36" (900mm) | 16 | 8(25) |
| 56' (16.8 m) and less than 65' (19.8 m) Greater than or equal to 65' (19.8 m) and up to | | | | | |

NOTES:

- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along
 the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpc).
 This strength shall be verified by boring data prior to construction or with testing by the Engineer
 during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised
 design if other conditions are encountered.
- 2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- 3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm)
- 4. For mast arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

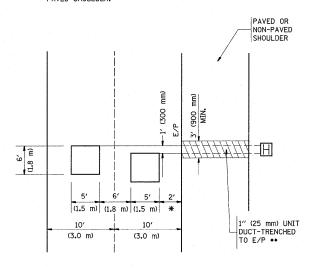
| FILE NAME = | USER NAME = abebawa | DESIGNED - DAG | REVISED - | | | DISTRICT ONE | F.A.U. | SECTION | COUNTY | TOTAL SHE | EET |
|-----------------------------------------|-----------------------------|-----------------|-----------|------------------------------|-------------|----------------------------------------|---------|-----------------------|-------------|------------|-----|
| c:\pw_work\pwidot\abebawa\d0284194\D106 | 211-sht-plan.dgn | DRAWN - BCK | REVISED - | STATE OF ILLINOIS | | | 3730 | (1312,1314&3262) RS-5 | соок | 32 3 | 1E |
| | PLOT SCALE = 50.0000 '/ in. | CHECKED - DAD | REVISED - | DEPARTMENT OF TRANSPORTATION | | STANDARD TRAFFIC SIGNAL DESIGN DETAILS | | TS-05 | CONTRAC | T NO. 60R4 | 8 |
| | PLOT DATE = 12/17/2011 | DATE - 10-28-09 | REVISED - | | SCALE: NONE | SHEET NO. 5 OF 6 SHEETS STA. TO STA. | FED. RO | | AID PROJECT | | |

TRAFFIC SIGNAL LEGEND

| \pw_work\pwidot\abebawa\d0284194\D106211-sht-plan.dgn PLOT SCALE = 50.0000 '/ PLOT DATE = 12/17/2011 | DRA | AWN - BCK ECKED - DAD | REVISED - REVISED - REVISED - | STATE DEPARTMENT | OF ILLINOIS OF TRANSPO | | SCALE: NO | DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS NE SHEET NO. 6 OF 6 SHEETS STA. TO STA | 3730 | (1312,1314&3262) RS-5 TS-05 AD DIST. NO. 1 ILLLINOIS FEI | COOK 32 |
|------------------------------------------------------------------------------------------------------|------------------|--------------------------|---------------------------------------|------------------------------------------------------------------------------|---------------------------|-----------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------|---------------------|
| LE NAME = USER NAME = abebawa | DES | SIGNED - DAG/BCK | REVISED - | NO. 6 SOLID COPPER (GREEN) | | | | DISTRICT ONE | F.A.U. | SECTION | COUNTY TOTAL SHEETS |
| WIRELESS ACCESS POINT | R | | | GROUND CABLE IN CONDUIT | | | (1) | CROSSBUCK | | ≥ ≤ | |
| AN, TILT, ZOOM CAMERA IRELESS DETECTOR SENSOR | R W | | (W) | CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED | | 5 | | CROSSING GATE | | X0 X > | XOX- |
| AN TILT ZOOM CAMERA | R Pil | PI | | RADIO REPEATER DENOTES NUMBER OF CONDUCTORS, ELECTRIC | R ERR | ERR | RR | FLASHING SIGNAL | | X o X | X O X |
| DEO DETECTION ZONE | | | | | 1! | | · · · | RAILROAD CANTILEVER MAST ARM | | X OX X | X eX X X |
| DEO DETECTION CAMERA | R [V]J | | V | RADIO INTERCONNECT | | | • | RAILROAD CONTROL CABINET | | | ₽ |
| CROWAVE VEHICLE SENSOR | \mathbb{R}_{M} | [M] | <u> </u> | PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER | | C AD | ₽ C ★ D | | | EXISTING | PROPOSED |
| REFORMED DETECTOR LOOP | | P | Р | 12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID | | | * | RAILROAD | SYMBO | DLS | |
| ETECTOR LOOP, TYPE I | | | | INTERNATIONAL SYMBOL, OUTLINED | | | | | | <u> </u> | |
| LUMINATED SIGN NO RIGHT TURN" | R | 8 | | 12" (300mm) PEDESTRIAN SIGNAL HEAD | | | | (SYSTEM) DETECTOR PREFORMED SAMPLING (SYSTEM) DETECTOR | | [PS] | PS |
| NO LEFT TURN" | • | | • | 12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL | | ÓW W | | PREFORMED INTERSECTION AND SAMPLING | | PIS | PIS |
| ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR | R | ⊚APS | ⊚ APS | | | (← G) | "P" | EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETE | CTOR | PPI | |
| PEDESTRIAN PUSHBUTTON DETECTOR | (W) | | © ADS | "P" INDICATES PROGRAMMED HEAD | | (G) | G 4 Y | EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETE | CTOR | | |
| EDESTRIAN SIGNAL HEAD | -[] R_() | -0 | -1 | SIGNAL FACE WITH BACKPLATE. | | R | Y | SAMPLING (SYSTEM) DETECTOR | | [s] | S |
| S DENOTES SOLAR POWER) | R_ | | · · · · · · · · · · · · · · · · · · · | | | | R | (SYSTEM) DETECTOR | | | 1S |
| ASHER INSTALLATION | R O-D″F″ | O- ⊳ ″F″ | ●→ "F" | | | () | ← Y ← G | TO BE REMOVED INTERSECTION & SAMPLING | | | |
| GNAL HEAD OPTICALLY PROGRAMMED | R −D″P″ | +D →D"p" | + ▶ - ▶ "P" | SIGNAL FACE | | Y | Y | SIGNAL POST AND FOUNDATION | RMF | | |
| UMBERS INDICATE THE CONSTRUCTION STAGE) GNAL HEAD WITH BACKPLATE | +R | | 2 | THE STORE LAND | | (R) | R | STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED | RMF ○—X——— | | |
| IGNAL HEAD IGNAL HEAD CONSTRUCTION STAGES | R | | 2 | 12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE | | RY | | FOUNDATION TO BE REMOVED | 0 | | |
| JY WIRE | R | > | > | 12" (300mm) TRAFFIC SIGNAL SECTION | | R | R | ALUMINUM MAST ARM POLE AND | RMF | | |
| EMPORARY WOOD POLE (CLASS 5 OR ETTER) 45 FOOT (13.7m) MINIMUM | R⊗ | | ∞ | ABANDON ITEM | Α | | | STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED | ORMF | | |
| IGNAL POST | R _O | 0 | • | REMOVE ITEM RELOCATE ITEM | R | | | CONTROLLER CABINET AND FOUNDATION TO BE REMOVED | RCF | | |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA | PIM | PI | | INTERSECTION ITEM | | I | IP | OR (S) SERVICE | Dor | | |
| SSEMBLY AND POLE WITH LUMINAIRE | ^R O-¤ | 0-× | ◆ → X | SYSTEM ITEM | | s : | S | GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, | | c. | c _{III} |
| LUMINUM MAST ARM ASSEMBLY AND POLE TEEL COMBINATION MAST ARM | R | | | COMMON TRENCH COILABLE NONMETALLIC CONDUIT (EMPTY) | | | CT CNC | (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS) | | | - O- |
| TEEL MAST ARM ASSEMBLY AND POLE | R | 0 | • | AND CABLE | 1N | | | FIBER OPTIC CABLE NO. 62.5/125, | | | |
| ELEPHONE CONNECTION P) POLE OR (G) GROUND MOUNT | R T | P | P | IN TRENCH (T) OR PUSHED (P) TEMPORARY SPAN WIRE, TETHER WIRE, | R | | | FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F | | — <u>24</u> F | (24F) |
| ERVICE INSTALLATION, P) POLE OR (G) GROUND MOUNT | <u>R</u> | - <u></u> | <u>-■</u> P | JUNCTION BOX GALVANIZED STEEL CONDUIT | <u> </u> | | | FIBER OPTIC CABLE NO. 62.5/125, MM12F | | —(12F)— | |
| NINTERRUPTIBLE POWER SUPPLY | UPS | EUPS | UPS | DOUBLE HANDHOLE | R O | | 0 | COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED | | 6 | -6- |
| ASTER MASTER CONTROLLER | Þ | EMMC | ммс | HEAVY DUTY HANDHOLE | RH | H | H | VENDOR CABLE FOR CAMERA | | | <u> </u> |
| OMMUNICATIONS CABINET ASTER CONTROLLER | CC | ECC EMC | C C | HANDHOLE | R 🖂 | | | | | | |
| AAILROAD CONTROL CABINET | | | | CONFIRMATION BEACON | Ro-Q | 0(] | ⊶ | COAXIAL CABLE | | <u> </u> | <u> </u> |
| ONTROLLER CABINET | \bowtie R | | | EMERGENCY VEHICLE LIGHT DETECTOR | R ≪ | \triangleleft | • | ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE | | | |
| | | | | | | | | ₫ in the control of | | | |

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.



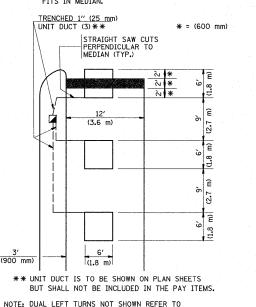
* * UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

* = (600 mm)

LEFT TURN LANES WITH MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

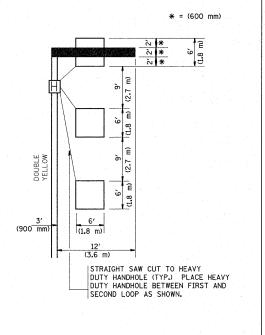
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE



PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

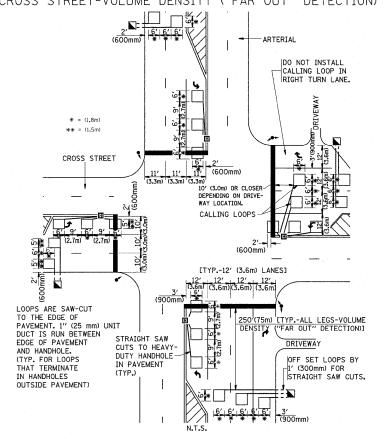


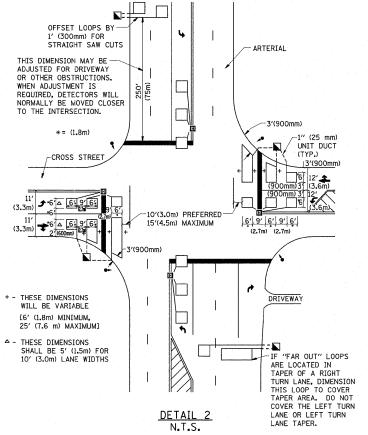
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)

CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)





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 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. <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 $\underline{\mathsf{ALL}}$ 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.

| | | <u> </u> | |
|-----------------------------------------|-----------------------------|------------------|-----------|
| FILE NAME = | USER NAME = abebawa | DESIGNED - | REVISED - |
| c:\pw_work\pwidot\abebawa\d0284194\D106 | ll-sht-plan.dgn | DRAWN - | REVISED - |
| | PLOT SCALE = 50.0000 '/ in. | CHECKED - R.K.F. | REVISED - |
| | PLOT DATE - 12/17/2011 | DATE - | BEVISED |

DETAIL N.T.S.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| DISTRICT 1 – DETECTOR LOOP INSTALLATION | F.A.U. RTE. | SECTION | COUNTY | TOTAL | SHEET NO. |
|--------------------------------------------------|----------------|-----------------------------------|-----------|--------|--------------|
| DETAILS FOR ROADWAY RESURFACING | 3730 | (1312,1314&3262) RS-5 | COOK | 32 | 32 |
| DETAILS FOR ROADWAY RESURFACING | | TS-07 | CONTRACT | NO. 60 | R48 |
| SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. | FED. RO | DAD DIST. NO. 1 ILLINOIS FED. A | D PROJECT | | |