

MIXTURE REQUIREMENTS

LOCATION(S):	HOT-MIX ASPHALT SURFACE COURSE (IL ROUTE 13)
MIXTURE USE(S):	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX E, N105
AC/PG:	SBS PG76-22
RAP % (MAX):	0
DESIGN AIR VOIDS:	4.0%, 105 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5 mm OR IL 12.5 mm
FRICTION AGGREGATE:	E SURFACE

LOCATION(S):	HOT-MIX ASPHALT BINDER COURSE (TOP LIFT)
MIXTURE USE(S):	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N105
AC/PG:	SBS PG76-22
RAP % (MAX):	0
DESIGN AIR VOIDS:	4.0%, 105 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-19.0
FRICTION AGGREGATE:	NONE

LOCATION(S):	HOT-MIX ASPHALT BINDER COURSE (LOWER LIFTS) (NORTH SKYLINE DRIVE)
MIXTURE USE(S):	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90
AC/PG:	PG64-22
RAP % (MAX):	10
DESIGN AIR VOIDS:	4.0%, 90 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-19.0
FRICTION AGGREGATE:	NONE

LOCATION(S):	HOT-MIX ASPHALT SURFACE COURSE (FRONTAGE RD., MARATHON DR., NORTH SKYLINE DR.)
MIXTURE USE(S):	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N105
AC/PG:	SBS PG76-22
RAP % (MAX):	0
DESIGN AIR VOIDS:	4.0%, 105 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5 mm OR IL 12.5 mm
FRICTION AGGREGATE:	D SURFACE

LOCATION(S):	HOT-MIX ASPHALT SHOULDERS (IL ROUTE 13, SOUTH SKYLINE DR.)
MIXTURE USE(S):	HOT-MIX ASPHALT SHOULDERS
AC/PG:	PG58-22
RAP % (MAX):	50
DESIGN AIR VOIDS:	2.0%, 30 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	HMA SHOULDERS
FRICTION AGGREGATE:	NONE

HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 202001-01 EARTH MEDIAN DITCH CHECK
- 280001-06 TEMPORARY EROSION CONTROL SYSTEMS
- 420001-07 PAVEMENT JOINTS
- 420106-04 36' (10.8 m) JOINTED PCC PAVEMENT
- 420401-08 BRIDGE APPROACH PAVEMENT CONNECTOR
- 424001-06 PERPENDICULAR CURB RAMPS FOR SIDEWALKS
- 442101-07 CLASS B PATCHES
- 442201-03 CLASS C AND D PATCHES
- 483001-04 PCC SHOULDER
- 515001-03 NAME PLATE FOR BRIDGES
- 542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 542306-02 PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
- 542401-01 METAL END SECTION FOR PIPE CULVERTS
- 601101-01 CONCRETE MANHOLE FOR PIPE DRAIN
- 602301-03 INLET - TYPE A
- 602306-03 INLET - TYPE B
- 602401-03 MANHOLE - TYPE A
- 602411-03 MANHOLE - TYPE A 7' (2.1 m) DIAMETER
- 602601-02 PRECAST REINFORCED CONCRETE FLAT SLAB TOP
- 602701-02 MANHOLE STEPS
- 604001-03 FRAME AND LIDS - TYPE 1
- 604011-04 FRAME AND GRATE - TYPE 3V
- 604071-04 FRAME AND GRATE - TYPE 20
- 604101-01 MEDIAN INLET FOR 24" (600 mm) REINFORCED CONCRETE PIPE
- 604106-01 MEDIAN INLET FOR 36" (900 mm) REINFORCED CONCRETE PIPE
- 606001-04 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 606301-04 PC CONCRETE ISLANDS AND MEDIANS
- 609006-05 BRIDGE APPROACH PAVEMENT (DRAIN DETAIL)
- 610001-06 SHOULDER INLET WITH CURB
- 630001-10 STEEL PLATE BEAM GUARDRAIL
- 630201-06 PCC / HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
- 630301-05 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631031-10 TRAFFIC BARRIER TERMINAL, TYPE 6
- 635001-01 DELINEATORS
- 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 635011-02 REFLECTOR MARKER AND MOUNTING DETAILS
- 642001-02 SHOULDER RUMBLE STRIPS, 16 IN.
- 643001 SAND MODULE IMPACT ATTENUATORS
- 666001-01 RIGHT OF WAY MARKERS
- 667101-02 PERMANENT SURVEY MARKERS
- 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
- 701006-03 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM EDGE OF PAVEMENT

HIGHWAY STANDARDS (CONT.)

- 701011-02 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701101-02 OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701106-02 OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
- 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701306-03 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701326-04 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
- 701421-04 LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH
- 701423-05 LANE CLOSURE, MULTILANE, WITH BARRIER FOR SPEEDS ≥ 45 MPH TO 55 MPH
- 701426-04 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
- 701427 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., ≤ 40 MPH
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701502-04 URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
- 701601-07 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
- 701606-08 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701701-08 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701901-02 TRAFFIC CONTROL DEVICES
- 704001-07 TEMPORARY CONCRETE BARRIER
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-03 SIGN PANEL ERECTION DETAILS
- 720016-03 MAST ARM MOUNTED STREET NAME SIGNS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 780001-03 TYPICAL PAVEMENT MARKINGS
- 781001-03 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 782001 PRISMATIC CURB REFLECTORS
- 805001-01 ELECTRICAL SERVICE INSTALLATION DETAILS
- 825011-02 LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240V
- 830021 LIGHT POLE STEEL TENON TOP
- 836001-01 LIGHT POLE FOUNDATION
- 862001-01 UNINTERRUPTABLE POWER SUPPLY (UPS)
- 873001-02 TRAFFIC SIGNAL GROUNDING AND BONDING
- 877001-05 STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
- 877011-05 STEEL COMB. MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
- 878001-09 CONCRETE FOUNDATION DETAILS
- 880001-01 SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
- 886001-01 DETECTOR LOOP INSTALLATIONS
- BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- BLR 22-7 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO-LANE TWO WAY RURAL TRAFFIC) (ROAD CLOSED TO THRU TRAFFIC)

PREPARED BY: [Signature]
DISTRICT STUDIES & PLANS ENGINEER

EXAMINED BY: [Signature]
IMPLEMENTATION ENGINEER

EXAMINED BY: [Signature]
DISTRICT LAND ACQUISITION ENGINEER

EXAMINED BY: [Signature]
DISTRICT PROGRAM DEVELOPMENT ENGINEER

EXAMINED BY: [Signature]
DISTRICT OPERATIONS ENGINEER

EXAMINED BY: [Signature]
DISTRICT CONSTRUCTION ENGINEER

EXAMINED BY: [Signature]
DISTRICT MATERIALS ENGINEER

APPROVED BY: [Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

DATE: Dec 7, 2011

FILE NAME =	USER NAME = Matt Overbey	DESIGNED - KPF	REVISED -
1:\dot\0986603\draw\CADD_Sheets\0986603-sht-mix-design-stand.dgn		DRAWN - TAP	REVISED -
		CHECKED - SPH	REVISED -
		DATE - 12/9/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SIGNATURE SHEET, HIGHWAY STANDARDS & MIXTURE REQUIREMENTS
ILLINOIS ROUTE 13**

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(IX-1) VB-1, B-1, N-4, R-3	WILLIAMSON	367	2
CONTRACT NO. 98859			ILLINOIS FED. AID PROJECT	