NOTE: BOH-IMs prior to 1986 do not have assigned numbers
There is no BOH IM 1999-21 or BOH IM 1999-22
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FieldManager Contractor Read-Only Copies, (Supercedes BOH IM 2003-11) – C/T:CF:kab BOH IM 2007-08 (11/19/07)
Pre-Contract Acceptance Processing of Reduction in Retainage – C/T:CF:kab BOH IM 2004-20 (06/04/04)
FieldManager Contractor Read-Only File Distribution – CF:kab – BOH IM 2003-11 (09/16/03)
FieldManager "Guest" User Account, KF:kab - BOH IM 2002-10 (06/27/02)
FieldManager Contract Initialization Files for Consultation - CF:jp - BOH-IM 1999-4 (3/25/99)
Loading Software on the CPRKS PC - CDF - CIM 1994-8 (4/20/94)

FIELD WELDING (see "Welding")

FINAL ESTIMATES (see "Estimates, Pay")

FINAL INSPECTION
Termination of National Pollutant Discharge Elimination System (NPDES) Storm Water Discharges from Construction Activities Authorization and the Deactivation of the MDEQ Site Identification Numbers, Where Applicable – EMB:kab – BOH IM 2001-13 (10/29/03) (see also, Environment)

Final Project Final Inspection/Acceptance and Certification Report - Form 1120, and Final Estimate Checklist - AW:kab - BOH IM 2000-07 (04/06/00)

Project Final Inspection by FHWA - GJC/GCT - CIM 1988-6 (3/22/88)

Procedural Changes on FHWA Final Inspection - HBL/GCT - CIM 3/2/83

**FINAL REVIEWS** (see "Operations Reviews")

**FORCE ACCOUNTS** (see "Authorizations")

**FORMS** (see also: "Bituminous")


Elimination of Bi-Weekly Construction Progress Report (Form 1102A) – CF:kab - BOH IM 2003-18 – (12/10/03)


Revision of EEO and OJT Training Forms and Reports (Form 1199) - GDD/GCT - CCL 1994-4 (12/13/94)

Distribution of Reports to FHWA - GDD/JKG - CIM 1992-22 (11/2/92)

Form FHWA-47 - GDT/GCT - CIM 1989-14 (12/18/89)

**FREEDOM OF INFORMATION**

Policy for Freedom of Information Act Requests for Bridge Inspection Reports – DAJ:kab – BOH IM 2006-06 (08/14/06)


"G"

**GUARDRAIL**


Guardrail Anchorage Cable (SRT) - PFM:JF:jp - CIM 1996-3 5-14-96


Guardrail Anchorage - Bridge/Pier - GDT/AQS - CIM 1990-17 (11-13-90)

Supplemental to Construction Instructional Memorandum 1988-12 - GDT/BHR - CIM 1988-20 (9-13-88)

Burning of Guardrail Steel Beam Elements - Not Permitted - WJM/BHR - CCL 1988-3 (6-16-88)

Chapter 7, Michigan Design Manual - Road Design - GJC - CIM 1988-1 (1-6-88)

Changes in Details of Guard Rail Construction for the 1987 Construction Season - GJC/BHR - CIM 1987-2 (2-9-87)

Cable - Guardrail Tension - GJC - CIM 1986-4 (2-4-86)

Breakaway Cable Anchorage (BCT) - GJC - CIM 8-20-85

Standard Plan III-60E - Guard Rail Splice & Post Bolts - HBL - CIM 12-11-84

Breakaway Cable Anchorage (BCT) - HBL - CIM 10-11-84

Shop Bent Rail - Standard Plan III-58 - Guard Rail Ending with Cable Anchor - HBL - CIM 5-25-84

Guard Rail Ending with Cable Anchorage - HBL/MLO - CIM 4-12-78

Reflectorized Washers on Guard Rail - WJM(Design) to HBL - CIM 8-25-76

Structural Guard Rail Anchorages: 1. Shoulder Bolder; Anchors in Slip Form Railing - HBL/CME - CIM 8-9-76 (memo of 10-1-76 attached)

"H"

**HAZARD PAY**

Hazard Pay - HBL/JMK - CIM 6-21-83

**HAZARDOUS WASTE** (see "Environment")

**HIGHWAY PREVENTATIVE MAINTENANCE PROGRAM**

Highway Preventative Maintenance Program - Overruns - GDD/JKG - CIM 1993-30 (12-22-93)

**HISTORY SHEETS** (see "As Constructed Quantities")

**HOT MIX ASPHALT (HMA)**

Authorization to Allow the Use of Recycled Asphalt Shingles (RAS) in Hot Mix Asphalt (HMA) – BOFS:CFS:CJB:mmn – BOH IM 2013-06 (07/08/13)

Authorization to Allow the Use of Fine Toothed Milling for Ride Quality Corrective Action on Asphalt Pavements - BOFS:CFS:CJB:mmn – BOH IM 2013-02 (02/19/13)

Authorization to Allow the Switch from HMA Superpave Mix to Warm Mix Asphalt (WMA) and to Change the Requirement for AC Binder Sampling when WMA is being Produced – BOFS:CJB:mmn – BOH IM 2012-09 (09/11/12)

Michigan Test Method 319, Determination of Asphalt Content from Asphalt Paving Mixtures by the Ignition Method and the Contractor’s Responsibilities for the Establishment of Ignition Oven Correction Factors – CFS:JB:mmn – BOH IM 2012-08 (08/30/12)
Adding Crush Minimum Criteria to 2012 HMA Projects – CFS:JWB:lmw – BOH IM 2012-04 (03/08/12)
Procedures for Job Mix Formula Adjustments – C/T:JWB:kab – BOH IM 2005-10 (06/01/05)
Qualifications for Sampling HMA Behind the Paver - MF:kab - BOH IM 2002-09 (6/3/02)

"I"

**INSPECTION**
Inspection of Prestressed Concrete Beams for Stockpile Purposes - MLL:jp - BOH IM 1998-7 (8-24-98)
Interim Procedures for Inspection/Acceptance of Sign Contracts - JG:jp - Joint C & T, Maintenance, and T&S IM 1997-C-S (12-10-97) supercedes 1997-C
Interim Procedures for Inspection/Acceptance of Sign Contracts - SJE:tl:jp - Joint C, M&T, Maintenance, and T&S IM 1997-C (1-10-97)
Deficiencies Found During the 1991 Bituminous Inspection In-Depth by FHWA - GDD/EDW - CIM 1992-11 (5-1-92)
Discontinue Use of Form 1133 - Bituminous Street Equipment Inspection Report - GDT/EDW - CIM 1991-2 (1-3-91)
Contractors' Requests for Copies of IDR's - GJC - CIM 1986-14 (3-12-86)
Inspection and Control Procedures on Small Quantities of Concrete and Miscellaneous Materials (Supersedes CCL 1969-16)GJM/GCT -CCL 1983-2 (6-13-83)
Electrical Construction Inspector's Check List - HBL/PHD - CIM 5-1-80

**INTELLIGENT TRANSPORTATION SYSTEMS (ITS)**

"J"

**JOB CONTROL TESTING**
Job Control Testing Problems on the Negotiated County Secondary Projects - CIM 3-5-82

"L"

**LABOR COMPLIANCE** (see "Davis-Bacon Labor Compliance")

**LANDSCAPING**
Highway Landscape Planting Project Inspection - HBL & TRW(Maint) - CIM 10-14-77

**LEASE RENTAL AGREEMENTS**
Lease Rental Agreements - GJC - CIM 1986-19 (4-4-86)

**LEGISLATIVE CONTACTS**
Lobbyist Registration Act - Legislative Contacts - HBL - CIM 1-13-84

**LETTER DESIGNATION**
Letter Designation on Highway Projects - HBL - CIM 4-30-80

**LICENSE REQUIREMENTS** (see "Electrical Construction")

**LINES, GRADES, & ELEVATIONS**
Section I.05.07 of the 1984 Standard Specifications: Lines, Grades, and Elevations - GJM/HBL - CCL 1983-1 (6-1-83)

**LOBBYING**
Lobbyist Registration Act - Legislative Contacts - HBL - CIM 1-13-84

**LOCAL GOVERNMENT PROJECTS**
Region Oversight of Local Agency Construction Projects (Supersedes BOH IM 2005-02) – BOHD:C/T:JJG:kab - BOH IM 2006-10
Region Oversight of Local Agency Construction Projects – BOHD:C/T:AC:kab – BOH IM 2005-02 (02/07/05)
Region Oversight Local Agency Construction Projects - PFM:PAL:jp - CIM 1997-2 (5-1-97)
Transportation Work Authorizations for Local Agency Projects - GDD/PAL - CIM 1994-7 (4-13-94)
Local Government Project Testing - MLO - CIM 1986-22 (5-13-86)
Material Testing for FAS Projects by the M&T Division - WJM - CIM 1986-20 - (4-9-86)
Publicly-Employed Engineer for Local Projects - GPM - 5-25-84D
Guidelines for Local Agencies & Consultants - HBL/RDD - CIM 8-5-83
Rental of T&R Test Kits to Local Agencies for Use by Their Consultants - HBL/GCT - CIM 3-5-82
MAINTAINING TRAFFIC
See “Traffic Control”

MANPOWER MANAGEMENT
Adjustments to Planned Man-hours - GJC/RHD - CIM 1987-22 (10-15-87)
Recording Manhours on Form 1187 - HBL - CIM 2-17-84

MATERIALS
Open Graded Drainage Course, Modified FUSP 03SP303(A) – C/T:JFS:kab – BOH IM 2008-15 (11/24/08)
Waiver of Contract Specification Requirements and/or Changes to Material Requirements – C/T:AC:kab – BOH IM 2005-09 (06/01/05)
Open Graded Base Course, Modified and Aggregate Base Under HMA – C/T:JAR:kab – BOH IM 2004-06 (01-23-04)
Polymer Coated Steel Pipe - JAR:kab – BOH IM 2002-12 (7/1/02)
Effective Date for Aggregate Wear Indices (AWI) for Quarryed, Waste Mine rock and Slag Aggregate Sources - DLS:jp - BOH-IM 1999-2 (3-2-99)
Superpave Performance Grading System - JDC:JWB:dg - CCL 1997-1 (8-6-97)
Supersedes CIM 1992-4 (1-28-92)
Testing Material for FAS Projects by the M&T Division - WJM - CIM 1986-20 (4-9-86)
Woven Wire Fence - Specification Material - TAC - CIM 1986-3 (2-4-86)
Sampling & Testing Procedure for Corrugated Galvanized Metal Pipe & Structural Steel Plate Pipe - HBL/GCT - CIM 3-29-83

MATH REQUIREMENTS (see “Work Elements”)

METRICATION
Metrification of Concrete Plants and Their Use on Metric MDOT Projects - Joint Construction/M&T CCL 1997-A (5-10-97)
Metric Weigh Tickets for Bituminous and Aggregate - JG:CR:plr - Joint Constructio/M&T IM 1996-I (11-22-96)
Metrification of Concrete Plants and Their Use on Metric MDOT Projects - KF:JG:JTL:jp - Joint Construction M&T CCL 1997-1

MICHIGAN PREVAILING WAGE ACT

MIOSHA
Bridge Painting Inspection and Lead Exposure in Construction – C/T:EMB:kab – BOH IM 05-13 (08/25/05)
Michigan Occupational Safety and Health Act Citations/Inspections - PFM:PAL:KJH:hr - CIM 1997-3 (5-22-97)
Safety - GDD/PAL - CIM 1993-21 (8-2-93)
MIOSHA Emergency Rules - GDD/KAG - CIM 1993-3 (1-12-93)
MIOSHA Revision - GDD/KPB - CIM 1992-3 (1-27-92)
MIOSHA Revision - GDTS/KPB - CIM 1991-5 (3-27-91)
MIOSHA Safety Standards - GDT/KPB - CIM 1990-6 (6-20-90)
MIOSHA - Corrected Part II - GJC/WJK - CIM 1987-3 (2-12-87)
MIOSHA - Written Out - RRS/WJK - CIM 10-17-85
MIOSHA - Amended Part 6 - RRS/WJK - CIM 10-17-85
MIOSHA - Amended Part 10 - GJC/WJK - CIM 8-12-85
MIOSHA - Amended Part 26 - GJC/WJK - CIM 6-19-85
MIOSHA - Amended Part 14 - HBL/WJK - CIM 7-26-84
MIOSHA - Safety & Health Act - HBL/WJK - CIM 4-10-84
MIOSHA Citations - HBL/WJK - CIM 6-14-82
MONUMENTING CONTROL POINTS (see "Staking")

MOBILIZATION

Mobilization - PFM:JTL:jp - CCL 1996-2 - 6-6-96

"N"

NOTICE TO BIDDERS

Central Source for Providing Information to Outside Parties Prior to Bidding on Construction Projects - RAW/EDW - CCL 1989-2 (4-19-89)

NOTIFICATION (see "Utilities," "Environment")

NOTIFICATION OF CORRECTION OF DEFICIENCIES

Notification of Correction of Deficiencies - HBL - CIM 1-11-83
Notifying Counties and Municipalities of Pertinent Information - GJC - CIM 1987-9 (5-16-87)

NUCLEAR GAUGES (see "Density Testing")

"O"

ON THE JOB TRAINING (see "EEO/OJT Program")

OPEN-GRADED DRAINAGE COURSE


OPERATIONS REVIEWS

Digitally Encrypted Electronic Signatures – C/T:MA:tw – BOH IM 2012-02 (02/28/12)
Project Record Certification Program – C/T:AW:kmab – BOH IM 2006-13 (10/19/06)
Project Record Certification Program – C/T:AW:kmab – BOH IM 2004-08 (02/06/04)
Final Project Reviews, Monitoring Construction Engineering Consultants, and Incentive/Disincentive Projects - C/T:PAL:kmab - BOH IM 2002-14 (8-8-02)
Revisions to MDOT Resident/Delivery/Project Engineer Project Record Certification - GCT:aw:jp - BOH-IM 1999-9 (5-18-99)
Resident/Project Engineer project Record Certification PFM:CR:BRH:sh - Joint C and M&T CIM 1997-A (1-17-97)
Project Engineer Certification Program - GDD/GCT - CIM 1994-16 (6-28-94)
Project Engineer Certification Program - GDD/GCT - CIM 1993-13 (4-13-93)
Minor Discrepancies Found During Project Reviews - GDT/GCT - CIM 1991-12 (8-5-91)
Discontinue Use of Form 1118-Unsubmitted Final Report - GDT/GCT - CIM 1991-8 (5-9-91)
Project Engineer Certification Program - GJC - CIM 12-3-85
Combined Final Project Reviews - Construction and Testing & Research - DEO for WJM/CD:JK - 4-25-85
Annual Material Inspection Review Certification - HBL/KAA - CIM 12-2-82
Annual Project Record Certification - GCT - CIM 10-13-81
Final Materials Inspection Review - HBL & KAA - CIM 5-11-81

OSHA

Occupational Safety and Health Administration (OSHA): Lead Exposure in Construction - GDD/PAL - CIM 1993-22 (9-2-93)

OVERHEAD (see "Project Office")

OVERTIME

Overtime Approval - Construction Field Employees - GJC - CIM 1986-5 (2-4-86)

"P"

PAINTING (see also "Environment")

Excerpts from Surface Preparation and Coating of Concrete (SSPC) Publication 98-05 to be Used with the Special Provision for Concrete Surface Coating, DB:kmab – BOH IM 2003-14 (10/29/03)

PAINT STRIPING (see "Pavement Marking")
PARTNERING
Supplemental Specification SS102.2 Partnering - PAL:kab - BOH IM 2001-11 (6/7/01)

PAVEMENT
Changes to Ride Quality Specification - BOHD:C/T:TH:kab - BOH IM 2007-07 (9/14/07)
Pavement Riding Quality - Supplemental Specification 4.50(4a) - GJC/WJK - CIM 1987-10 (5-18-87)
Life Cycle Costing of Pavement Rehabilitation Alternatives - RAW - CIM 8-26-85
Pavement Life Cycle Costing Report - RAW - CIM 8-1-85

PAVEMENT, CONCRETE
Retexturing Ground Concrete Pavement - Joint Construction/M&T IM 1995-C (5-1-95)
Concrete Pavement Joints - GJC/WJK - CIM 1988-8 (4-7-88)
Selecting Deteriorated Concrete Pavement Areas for Repair - GJC/TAC - CIM 1987-12 (5-22-87)
Pavement Dowel Bars with Less Than 10 Mil Coatings & Lane Ties with Less Than 24" Long - HBL/DLW - CIM 6-11-84
Use of Spansaws on Concrete Pavement - RRS - CIM 4-16-84
Concrete Pavement Repair - HBL/DLW - CIM 9-7-83
Expansion Anchor Testing Procedure and Lane Tie Testing Procedure - Note: Refer to Construction Manual pgs 4-25, 4-48 & 4-55 - HBL/CME - CIM 9-8-77

PAVEMENT DATABASES
Pavement Historical Database (PHD) – Annual Data Entry – BOHD:C/T:ME:mmn – BOH IM 2010-06 – (9/1/10)

PAVEMENT MARKING
Pavement Marking Turn Arrows (Supersedes BOH IM 2013-10) – BOFS:CFS:JG:mmn – BOH IM 2014-05 (05/07/14)
Acceptance of Left-Turn and Right-Turn Pavement Marking Arrows – BFS:JGM:mmn:mmn – BOH IM 2013-10 (09/18/13)
Temporary Pavement Markings Applied on the Finished Pavement Surface - PFM:AGS:tml - Joint Construction/T&S CIM 1995-D REV. (06/19/05)
Optional Wet Paint Alert Sign "WET PAINT - DO NOT CROSS LINE"- GDD/AQS - CIM 1994-12 (06/02/94)
Type NR - Temporary Pavement Marking - GDD/AQS - CIM 1993-8 (03/09/93)
Certification of Pavement Marking Equipment - GDT/AQS - CIM 1991-9 (05/03/91)
Pavement Marking Paints on Current Contracts - GDT/WJK - CIM 1990-8 (06/15/90)
Protection of Uncured Markings on Polyester Pavement Contracts - HBL - CIM (06/10/83)
Thermoplastic Pavement Marking (Reference to Previous Memo of 12-6-79) - HBL/WJK - CIM (03/13/80)
Inspection of Federal Safety Projects for Paint Striping on Secondary and Local Roads - HBL/WJK - CIM (07/17/78)

PAY ESTIMATES (see "Estimates, Pay")

PAYMENT TO CONTRACTORS (see also: "DBE/MBE/WBE/HBO")
Timely Progress Payments to Contractors – BOFS:CFS:JG:mmn – BOH IM 2012-12 (10/10/12)
Elimination of Retainage on Construction and Maintenance Projects (Supersedes BOH IM 2001-15) – BOHD:C/T:JG:kab – BOH IM 2006-02 (02/10/06)
Documentation Requirements for Partial Payment for Materials Stockpiled Off Site – SJC:kab – BOH IM 2004-26 (12/10/04)
Retainage on Construction and Maintenance Projects - GT:kab - BOH IM 2001-15 (11/06/01)
Forms 103B AND 103F, EEO/OJT Program - GDT/GCT - CIM 1991-1 (01/04/91)
Contract Overpayments - GDT/KPB - CIM 1989-4 (05/10/89)

PAYROLLS (see "Davis-Bacon Labor Compliance")

PEAT DISPOSAL (see "Earthwork")

PERMITS
Enforcement of County Haul Route Permits – BOHD:C/T:MJE:kab BOH IM 2005-12 (08/08/05)
Air Quality Permits for Asphalt Mixture Plants - GDD/TAC - Joint Construction & M&T IM 1993-B (9-20-93)
Individual Construction Permit Application for Disposal of Earth Excavation or Use of Right of Way for Contractor's Plant Site - GDT/TAC - CIM 1988-15 - (7-1-88)

PERSONNEL
Working Out of Classification - HBL - CIM 8-8-84

PILES (see "Structures")
PLANS AND PROPOSALS
Final Marked Plans - Log Jobs - RC:kab - BOH IM 2002-06 (04-05-01)

PORTABLE CONCRETE BARRIER
Hazard Marker for Portable Concrete Barrier - WAS/PHD - CIM 3-23-76

PR-47
PR-47 Reporting - HBL - CIM 4-5-83

PRECONSTRUCTION NOTICES INVOLVING DNR (see "Environment")

PROCEDURES MANUALS
Construction Technology (C&T) Division Procedures Manual Updates – BOH:C/T:DP:kab – BOH IM 2010-02 (04/08/10)
Implementation of Tensile Strength Ratio (TSR) Worksheet, Form 1937 – BOH:C/T:HER:kab - BOH IM 2004-16 (05/14/04)
Changes in the Method of Calculating the Blended Aggregate Wear Index (AWI) Value for all Top Course Hot Mix Asphalt (HMA) Mix Designs – BOH:C/T:AR:kab BOH IM 2003-09 (05/27/03)
MDOT Guidelines for Administering Warranties on Road and Bridge Construction Contracts - JAR:kab - BOH IM 2003-03-REV (03/31/03)
MDOT Guidelines for Administering Warranties on Road and Bridge Construction Contracts - JAR:kab - BOH IM 2003-03 (03/10/03)
C&T Division Procedures Manuals - 2002 Annual Updates, Materials QA Procedures and Michigan Test Methods - JAR:kab - BOH IM 2002-18 (9/30/02)
2000 Fall Updates to the Construction and Technology Division's Procedures Manuals - JAR:kab BOH IM 2000-09 (9-6-00)
Revised Procedures Manual for Mix Design Processing - JR:kab - BOH IM 2000-13 (06-02-00)
2000 Spring Updates to the Construction and Technology Division’s Procedures Manuals - JAR:kab BOH IM 2000-11 (05-03-00)
1999 Fall Updates to the Construction and Technology Division’s Procedures Manuals - JAR:kab - BOH IM 1999-19 (11-9-99)

PROGRESS ESTIMATES
Changing of Progress Schedule Dates Before Awarded - GDD/JKG - CIM 1994-17 (9-23-94)
Progress Payment for Lump Sum Items - GDD/KAG - CIM 1993-4 (1-21-93)

PROGRESS SCHEDULES
Progress Schedule Form 1130 - RC:kab - BOH IM 2002-20 (10/21/02)
Revised Progress Schedule Form 1130 - RDC:kab - BOH IM 2001-05 (4-19-01)
Progress Schedule Determinations/Critical Path Rates - JDC:MLL:hr - C&TIM 97-7 (8-18-97)
Progress Schedule for Bituminous Paving Projects - GDD/JKG - CIM 1992-15 (6-23-92)
Revised Progress Schedule Form (1130) - GDD/JKG - CIM 1992-12 (5-19-92)
Start Dates on Progress Schedules - GDT/WJK/SF - CIM 1990-10 (7-3-90)
Progress Schedules - GDT/DLE - CIM 1988-16 (7-14-88)
Progress Schedules - GJC/DLE - CIM 1987-14 (7-13-87)

PROJECT ASSIGNMENTS (see also: "Guardrail")
Project Assignments - GDT/DLE - CIM 1988-12 (6-1-88)

PROJECT COMPLETION DATE (see also: "Audit Report" & "Estimates, Final")
Project Completion Date Submission - GDT/WJK - CIM 1990-12 (7-20-90)
PROJECT ENGINEER CERTIFICATION (see "Operations Reviews")

PROJECT FINALING (see: "Estimates, Pay")

PROJECT OFFICE
Project Office Overhead Charges - HBL/WCG - CIM 10-9-78
Project Office Maintenance - HBL/RPC - CIM 9-11-78

PROTECTED GROUPS
Protected Group Technician Training Report - HBL - CIM 4-8-85

PUBLIC INFORMATION
Guidelines to Use Permanent Changeable Message Signs (CMS) for AMBER Alert Messages - BOH:MET:ES/JJS:kab - BOH IM 2003-02 (02/06/03)
Notification of Overwidth and Overweight Restrictions on Construction Projects Using the AAA Notification Form - BOH IM 1998-6 (7-1-98)
Information Needed for Construction News Releases - E.Thomas(PI) - CIM 1986-23a (9-4-86)
Construction Detours and Slowdown Areas - E.Thomas(PI) - CIM 1986-23 (3-4-86)

PUBLIC UTILITIES

PUMPHOUSES
Equipment and Systems for Pumphouses, Rest Areas, and Moveable Bridges - HBL/GJC - CIM 3-19-79
Forms for Concrete Construction of Circular Pumphouses - HBL/CME - CIM 12-27-76

QUANTITY SHEETS (see "As Constructed Quantities")

RAILROADS
Railroad Force Account Work at Grade Separation Structures - RAW/GDD/JKG/TEH - CCL 1992-1 (5-12-92)
Central Office Review Procedures - GDD/KPB - CIM 1992-1 (1-6-92)
Construction Procedures for Railroad-Highway Projects - GJC - CIM 1986-10 (3-3-86)
Work Adjustment to Railroad Grade Crossings - HBL/Maint:TRW - CIM 5-27-77

RAMP PROCEDURES (see "Closures")

RECOMMENDATIONS (see "Authorizations")

REDUCTION IN RESERVE (see "Authorizations")

REGIONAL ISSUES

REINFORCING STEEL
Storage of Epoxy Coated Reinforcing Steel - GDD - CIM 1994-2 (3-4-94)
Epoxy Re-steel - HBL/GJC - CIM 4-2-82

REST AREAS
Equipment and Systems for Pumphouses, Rest Areas, and Moveable Bridges - HBL/GJC - CIM 3-19-79
Rest Area Building Documentation - HBL/JAJ - CIM 6-20-77

RIDE QUALITY (see "Pavement")

RIGHT-OF-WAY
Right-of-Way Acquisition During Construction - GJM/PHD - CIM 5-15-80
SAFETY (see also: "MIOSHA")
Improving Safety of Night Work - JG:kab - BOH IM 2000-01 (1-25-00)
Night Reviews of Construction Projects - PFMPAL:AQS:hr - CIM 1996-6 (7-19-96)
Warning Lights on Construction Sign - GDD/AQS - CIM 1993-12 (4-6-93)
Safety Apparel for Construction Employees (OI 8800.01 (Supersedes CIM 5-1-84) - GDT/KPB - CIM 1989-13 (11-9-89)
Safety Apparel for Construction Employees - HBL - CIM 5-1-84
Hose Lines - HBL/WJK - CIM 3-29-82
Safety - A Management Responsibility - DW(Safety) - CIM 10-19-78
Construction Zone Safety - HBL/PHD - CIM 5-2-77
Traffic Safety for Construction Sites - RCA & RCM - CIM 9-22-75
Portable Signs for Staking Crews - WAS/PHD - CIM 4-14-75

SEEDING
End of Season Seeding - TAC - CIM 9-11-85

SEWERS (see also: "Culverts")
ADS N12 Corrugated Plastic Pipe - GDT/TAC - CIM 1988-14 (6-23-88)

SHORE PROTECTION
Sample of Shore Protection - Great Lakes & Connecting Waters - TAC - CIM 1986-7 (2-10-86)

SHOULDER
Shoulder Trenching and Other Shoulder Construction Operations - HBL/WJK - CIM 2-24-83

SIGN AND LIGHTING STANDARDS
Erection of Cantilever and Truss Suported Signs, Tower Lighting, and Light Standards (Amendment to CIM 1994-11) - CIM 1997-5 (7-7-97)
Erection of Cantilever and Truss Supported Signs, Tower Lighting, and Light Standards - GDD/PAL - CIM 1994-11 (5-31-94)

SIGNING (see "Traffic Control")

SPECIAL PROVISIONS
Special Provision for Source of Steel and Iron (Buy America) (Supersedes BOH IM 2012-06) – BOFS:CFS:JG:mmn – BOH IM 2013-01 (02/12/13)
Special Provision for Buy America – CFS:BJO:JG:mmn – BOH IM 2012-06 (05/31/12)
Authorization to Change Asphalt Cement (AC) Binder Content Calculation Method for Hot Mix Asphalt (HMA) Placed and Accepted under Frequently Used Special Provisions (FUSPs) – C&T:SJP:kab – BOH IM 2008-10 (06/09/08)
Clarification of FUSP 03SP504(C) Superpave Hot Mix Asphalt Percent Within Limits (PWL) Intent – C&T:SJP:kab – BOH IM 2008-08 (04/28/08)
Construction Value Engineering Change Proposal (Supersedes BOH IM 1997-1) - C&T:EB:kab - BOH IM 2002-08 (5/8/02)
Special Provision for Critical Path Method Network Schedule BOHTS:C/T:JDC:kab BOH IM 2000-06 (03-02-00)
Special Provision Process Upgrade (C&T:BOHTS:JR:jp) BOH IM 1999-12 (7-6-99)
Construction Value Engineering Change Proposal (VECP) - PFM:TJH:tml - CIM 1997-1 (5-21-97)
Special Provision Specifications – DEO (Hwy Tech Srvs) & RAW(Hwy Oper) - CIM 1986-18 (3-31-86)

STAKING (see also: "Utilities")
Monumenting Control Points (Supersedes CCL 1980-2) - GJM/PGT - CCL 1987-1 (10-9-87)

STANDARD PLANS
Standard Plan R-80-B (Special Detail) and IV-80F (Special Detail) (Supersedes BOH IM 1998-3) - MLL:jp BOH IM 1999-3 (3-25-99)
Standard Plan R-80-B (Special Detail) or IV-80F (Special Detail) - MLL:jp - BOH IM1998-3 (6-19-98)

STANDARD SPECIFICATIONS
1984 Standard Specifications (Major Changes) - GJM - CCL 1984-3

STRUCTURAL STEEL (see "Structures")
**STRUCTURES**
(see also: "Environment")

Progress Clause for Steel Superstructure Projects (Supersedes BOH IM 2008-12) – BOFS:OFS:POJ:mmn – BOH IM 2014-06 (06/10/14)

Bridge Construction and Bridge Deck Construction Inspection and Documentation (Supersedes BOH IM 2007-02) – BOFS:OFS:MG:CR:dr (09/05/14)


Field Splicing of Steel Foundation Piles - BOFS:OFS:MG:CR:ksk – BOH IM 2013-05 (03/11/13)


Hydrodemolization and Bridge Deck Overlay Construction Inspection – C/T:EMB:kab – BOH IM 2008-14 (10/06/08)

Progress Clause for Steel Superstructure Projects – C/T:EMB:kab – BOH IM 2008-12 (06/16/08)


Bridge Weight Restrictions – C/T:DAJ:kab – BOH IM 2008-05 (03/03/08)

Bridge Construction and Bridge Deck Construction Inspection – C/T:EMB:kab – BOH IM 2007-02 (04/20/07)

Bridge Painting Inspection and Lead Exposure in Construction – C/T:EMB:kab – BOH IM 05-13 (08/25/05)

Acceptance/Rejection of Fabricated Structural Components Shipped to the Project Site – C&T:SJC:kab – BOH IM 2004-04 (1-16-04)


Bridge Rehabilitation Design-Build Projects - Joint C&T and Design IM 1997-D REVISED- CD:GJB.jp (10-2-97)

Bridge Rehabilitation Design-Build Projects - Joint C&T and Design IM 1997-D - CD:GJB.jp (9-18-97)

Water-Cement Ratio Testing - GDD/PAL - CIM 1993-1 (1-4-93)


Bridge Painting - Mates Articles - GD/PAL - CIM 1991-11 (12-16-91)

Storage of Spent Materials from Blast Cleaning Bridges - GJC/JDC - CIM 1988-4 (3-9-88)

Methods for Epoxy Anchorage of Rebars in Concrete - GJC/JDC - CIM 1987-25 (11-4-87)

Precautions for Bridge Painting Done in Cold Weather - GJC/JDC - CIM 1987-24 (11-3-87)

Pile Bearing Values Computed by Dynamic Formula - GJC - CIM 1986-11 (3-3-86)

Forming Bridge Decks - HBL - CIM 4-30-84

"Buy America" Provisions - HBL - CIM 3-14-84

Buy America Provisions - HBL - CIM 3-2-84

Field Welder Certification - GJM - CCL 1984-1 (1-10-84)

Expansion Joints in Latex Overlays - HBL/DLW - CIM 7-21-83

Epoxy Re-steel - HBL/JC - CIM 4-2-82

Polyester-Asphalt Hot-Mix Membrane for Bridge Deck Waterproofing - HBL/APP - CIM 4-28-81

1980 Construction Inspection Program - Bridge Decks - HBL - CIM 2-2-81

Timely Submission of Form 1190 - "Structure Clearance Measurements" - HBL/GT - CIM 1-30-80

Structural Steel Erection - HBL - CIM 11-29-79

Equipment and Systems for Pumphouses, Rest Areas, and Moveable Bridges - HBL/JC - CIM 3-19-79

Yearly Blanket Certification of Welding Electrodes and Stud Shear Developers (Supersedes CCL 1977-3) - GJM:T&R/GJH - CCL 1979-2 (2-12-79)

B-Bar in Existing Sidewalk Removal on New Barrier Rail Jobs - HBL/CME - CIM 6-20-77

Bar Chairs for Deck Concrete - HBL/CME - CIM 4-29-77

Wet Concrete Depth Measurements in Deck Construction - WAS/CME - CIM 9-4-75

Forming for Deck Widening (Modification of 7-8-75 Letter Attached) - WAS/CME - CIM 8-29-75

Shop Drawings for Fabricated Bridge Railing - WAS/CME - CIM 8-26-75

Minumum Documentation Requirements for Steel Reinforcement - WAS/CME - CIM 7-10-75

**SUBCONTRACTS**
(see "Contracts, Subcontracts")

**SUBBASE**

Subbase Drainage - HBL - CIM 11-29-79

**SUMMONS & SUBPOENAS**

Acceptance of Summons & Subpoenas by Department Employees - HBL- CIM 7-24-79

**TARGET ARROW**

Inspection of Target Arrows - HBL - CIM 4-4-78

**TECHINICAL CERTIFICATION**
(see "Work Elements")

**TESTING**
(see also: "Inspection" and "Structures")

Acceptance Requirements for Asphalt Binders - JWB:dmg - BOH IM 1998-2 (7-2-98)


Rental of T&R Test Kits to Local Agencies for Use by Their Consultants - HBL/JK - CIM 9-30-83
THERMOPLASTIC PAVEMENT MARKING (see "Pavement Marking")

TIME REPORTING
Time and Expense Reporting for Work Element Panel Members - GJC:Training - CIM 1987-1 (2-6-87)
Charging of Time & Travel Expense by the MBE Technical Specialists - HBL/GCT - CIM 11-4-80
Time and Expense Chargeability - RRS/WGC - CIM 6-30-80
Preparation of Time Reports and Travel Expense Vouchers - Forms 1187, 899 & A-23-H - HBL/RPC - CIM 5-7-80

TRAFFIC CONTROL
Type D Lights on Plastic Drum Channelizing Devices (Superceded BOH IM 2010-11) – BOFS:CFS:JJG:mm – BOH IM 2012-07 (6/26/12)
Work Zone Safety and Mobility (WZSM), Subpart K – BOHD:DO:JWR:JJG:ksk – BOH IM 2010-01 (2-22-10)
Sign Reflective Sheeting Material – T&S:MWB:mm – BOH IM 2006-12 – (09/14/06)
Establishment of Maximum Amounts for Minor Traffic Devices and Flag Control – JJJ:kab – BOH IM 2006-09-Revised-RESCINDED (Guidance for local agency projects added.) (09/07/06)
Establishment of Maximum Amounts for Minor Traffic Devices and Flag Control – JJJ:kab – BOH IM 2006-09 (08/16/06)
New Work Zone Sign – BOH:T&S:MWB:mm – BOH IM 2006-01 (02/06/06)
Pedestrian Signal Guideline – T&S:PJC:mm – BOH IM 2005-04 (04/22/05)
Dark Signals Due to Power Outage – T&S:PJC:mm – BOH IM 2004-24 (10/07/04)
New Work Zone Sign Required by Law – T&S:JDC:gbm – BOH IM 2004-11 (03/02/04)
Light Emitting Diode (LED) Traffic and Pedestrian Signal Installations – T&S:PJC:mm – BOH IM 2004-01 (01/05/04)
Transition Period for New 8 Foot Type III Barricade – C&T:JKG:kab – BOH IM 2002-21 (11-12-02)
Experimental Traffic Control Devices/Methods in work zones – T&S:MWB:mm – BOH IM 2001-02 (1-23-01)
Length of Work and End Road Work (G20 Series) Signage – T&S:MWB:mm – BOH IM 2000-09 (06-06-00)
Temporary Pavement Markings in Construction Zones – T&S:MWB:mm – BOH IM 2000-10 (06-06-00)
Sign Fabrication Inspection – CR:JAR:mm – Joint Construction and M & T IM 1995-H, Revised (8-29-95)
Sign Fabrication Inspection – CR:JAR:mm – Joint Construction and M & T IM 1995-H (8-8-95)
Construction Signs for Maintaining Traffic – WAS:Cox:mm – CIM 8-26-75
Lane Closure Lengths for Bituminous paving Projects – PFM:AGS:mm – Joint Construction/T&S CIM 1995-F (6-13-95)
Inspection of Traffic Sign Contracts – PAL:mm – CCL 1995-13 (6-16-95)
Signs Added to Permanent Signing Contracts – FFM/R. Maki:AQS:mm – Joint Construction/T&S IM 1995-B (2-17-95)
Quality Standards for Work Zone Traffic Control Devices – GDD/AQS:mm – CIM 1993-19 (7-9-93)
Inspection of Freeway Sign Upgrading Projects – GDD/AS:mm – CIM 1993-6 (2-1-93)
Bolted Connections – Steel Sign Trusses – GDD/PAL:mm – CIM 1992-23 (11-9-92)
Type I Signs (Aluminum Extruded Panels) – GDD/AQS:mm – CIM 1992-9 (5-5-92)
Sign Support & Light Standard Anchor Bolt Nut Tightening – WJM/M&T:RDT:mm – CCL 1991-3 (11-4-91)
Galvanized Cable Requirement on Temporary Concrete Barrier – GDT/AQS:mm – CIM 1991-6 (4-11-91)
Construction Lane Closures – GDT/AQS:mm – CIM 1990-11 (7-16-90)
Signs Contracts – Anchor Bolts on Sign Support Structures – GDT/LDT:mm – CIM 1990-7 (8-8-90)
Cantilever Sign Base Construction – GDT:mm – CIM 1990-1 (5-9-90)
Inspection of Contract Signing Projects – HBL:mm – CIM 1-29-85
Truss Sign Supports - HBL - CIM 10-30-80
Signing Projects - GJM/LPB(Maint) - CIM 10-17-80
Traffic Control - HBL/RRS - CIM 10-12-78
Inspection of Target Arrows - HBL - CIM 4-4-78
Signing Projects - RCA & DEO(T&S) - CIM 7-16-77
Plastic Drums Ballasted with Sandbags - WAS/CME - CIM 6-14-76
Traffic Control & Public Safety - WAS/PHD - CIM 5-12-76
Hazard Marker for Portable Concrete Barrier - WAS/PHD - CIM 3-23-76
Traffic Safety on Construction Sites - RCA & RCM - CIM 9-22-75
Construction Signs for Maintaining Traffic - WAS/WFC - CIM 8-26-75

TRAINING (see also: "Work Elements")

Qualifying Local Agency Technicians (Supplement to BOH IM 2000-04) - JTL:kab - **BOH IM 2000-21** (11/29/00)
Qualifications Requirements Sampling and Testing on the National Highway System (NHS) - JTL:kab - **BOH IM 2000-04** (04/06/00)
Traffic Regulator (Flagger) Training - PFM:tml - CCL 1996-6 (10-24-96)
Course Materials & Examinations for MCPA Concrete Technician Training Course - GDD/C.Roberts - Joint Construction & M&T IM 1994-D (6-13-94)
Engineer Development Program (E.D.P.) - JDC(Design) - CIM 1986-8 (2-20-86)
Training for Consultants - GJM/Training - CIM 6-21-83 (see attachments to Memo dated 8/5/83 Re: Guidelines for Local Agencies and Consultants)

TRAVEL EXPENSE (see "Time Reporting")

TRUCK RENTAL RATES

Rental Rates for the 1993 "Special Provisions for Force Account Work" for Contractor Owned Trucks Used to Haul Material - RAW/GDD/JKG - **CCL 1994-1** (3-8-94)
Rental Rates for Contractor-Owned Trucks Used to Haul Material - GDD/JKG - **CCL 1993-15** (5-11-93)
Rental Rates for Contractor-Owned Trucks Used to Haul Material - WJM - **CCL 1991-2** (10-5-91)

"U"

UNDERDRAINS

Use and Theory of Underdrains - GDT/TAC - CIM 1988-13 (6-8-88)
Constructing Underdrain - Reference Supp. Spec. for Underdrains 6.02(9) - WJM/TAC - **CCL 1988-4** (6-8-88)
Montorium on Steel Furnace Slag & Prefabricated Drainage System (PDS) Combination-GJC/TAC- **CIM 1987-7** (5-23-87)

UNDERGROUND STORAGE TANKS (see "Environment")

UTILITIES (see also: "Staking")

Unreasonable Delays due to Utility Companies (supersedes BOH IM 1999-16)
Unreasonable Delays due to Utility Companies - RDC/kab - **BOH IM 1999-16** (12-16-99) (Superceded by IM 2009-03)
Unreasonable Delays Due to Utility Companies - GDD/P.Miller/JKG - **Joint Construction & Engineering Srvcs. IM 1994-F** (9-21-94)
Utility Charges, etc. - GJC/U-P - **CIM 1987-4** (2-25-87)
Staking for Utility Work - HBL - CIM 11-8-83

"W"

WAGE RATES (see "Davis-Bacon Labor Compliance")

WARRANTY WORK

Contract Administration and Oversight Guidelines for Projects Containing Warranty Work – BOHD:C/T:KK:kab – BOH IM 2009-04 (4-8-09)
Notification of Warranty Claim, JDC:kab - **BOH IM 2001-19** (12-21-01)

WEEKLY STATEMENT OF WORK DAYS CHARGED

Work Day Charges (Supersedes CCL 1979-5) - WJM/RRS - CCL 1986-2 (11-26-86)
WELDING
Welder Certification by Agency Testing - DEO/M&T:EJP - CCL 1989-4 (10-6-89)
Field Welder Certification - GJM/T&R:JDC - CCL 1984-1 (1-10-84)
Welding Manhole Adjusting Rings - HBL/APC - CIM 6-11-79
Yearly Blanket Certification of Welding Electrodes & Stud Shear Developers (Supersedes CCL 1977-3) - GJM/T&R:GJH - CCL 1979-2 (2-12-79)

WITHDRAWAL OF PROJECTS
Withdrawal of Projects from Lettings Processed by the Specifications & Estimates Section - WJM - CIM 11-22-85

WORK DAYS (see "Weekly Statement of Work Days Charged")

WORK ELEMENTS
Michigan Certified Aggregate Technician Program Transition – CFS:AR:mmm – BOH IM 2013-09 (9-12-13)
Credit for Work Element Training Performed Outside the Department - GDT/KPB - CIM 1990-13 (8-2-90)
Construction Bi-Weekly Activity Summary (Form 1141) - CIM 1987-19 (9-22-87)
Math Requirements for Promotion - Construction Technicians V & VI - HBL - CIM 11-5-84
Technician Certification Program Changes - KPB - CIM 11-10-83
Panel Action - Work Element System - KPB - CIM 11-9-83
Technician Certification Program Changes - HBL/KPB - CIM 12-1-82
Work Element Training Break-In Period - HBL/KPB - CIM 9-15-81
Technician Certification Program Changes - HBL/KPB - CIM 1-30-81

WORK ZONE TRAFFIC CONTROL (See “Traffic Control”)

WORKING OUT OF CLASSIFICATION
Working Out of Classification - HBL - CIM 8-8-84