|  |  |
| --- | --- |
| To:Doug Cain | CountyWaukesha |
| Date:May 15, 2018 | HighwayWaukesha Bypass |
| Project ID2788-00-71 | LimitsUSH 18 |
| Project TypeReconstruction | DescriptionGenesee Rd to Fiddlers Creek Dr |

*Prepared By:*

|  |  |
| --- | --- |
| Name:     Susan Cook | Phone: 414-292-4530 |
| Office/Firm: Bloom Companies  | Email: scook@blommcos.com  |

## 1\_Field Control Data

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| --- | --- | --- |
| Filenames  | Name of Points in File | **Description of Points or Name of ASCII file containing Point Descriptions** |
| CONTROL-.CSVHMOD Calibration pointsDT1773-Geodetic Reference |  | Control points |

**2\_Existing Surface**

|  |  |  |
| --- | --- | --- |
| Filenames |  | **Description**  |
| EXIT\_Rev.dtmExist\_Ground\_wauk\_Bypass.xml |  | Existing Surface DTM(xml of existing ground dtm) |

**3\_Existing Topography-General**

|  |  |  |
| --- | --- | --- |
| Filenames |  | **Description**  |
| BL\_topo.dgn |  | Existing topo file |

**4\_ Existing Topography-Utilities**

|  |  |  |
| --- | --- | --- |
| Filenames |  | **Description**  |
| BL\_uti.dgnka\_UTI.dtm |  | Existing utility file(utilities draped on surface from Kapur) |

**5\_Reference Alignments (xml)**

|  |  |
| --- | --- |
| Filenames | **Description (Mainline, side road, driveway)** |
| AL\_bl\_WB\_NB.xmlAL\_bl\_WB\_SB.xmlAL\_DWY\_20825\_LT.xmlAL\_DWY\_20825\_RT.xmlAL\_DWY\_22280\_RT.xmlAL\_DWY\_24025\_RT.xmlAL\_DWY\_27001\_RT.xmlAL\_DWY\_27036\_RT.xmlAL\_DWY\_WE\_N.xmlAL\_DWY\_WE\_S.xmlAL\_GDT\_At\_Grade.xmlAL\_GDT\_N.xmlAL\_GDT\_SE.xmlAL\_GDT\_SW.xmlAL\_KA.xmlAL\_KH.xmlAL\_Lower\_Pebble\_Creek.xmlAL\_MC.xmlAL\_MD.xmlAL\_MHC.xmlAL\_MHR1.xmlAL\_MHR2.xmlAL\_MHR3.xmlAL\_MHR4.xml | Mainline Waukesha Bypass horizontal and NB PGL verticalMainline Waukesha Bypass horizontal and SB PGL verticalDriveway Sta 208+25 LT horizontal and verticalDriveway Sta 208+25 RT horizontal and verticalDriveway Sta 222+80 RT horizontal and verticalDriveway Sta 240+25 RT horizontal and verticalDriveway Sta 270+01 RT horizontal and verticalDriveway Sta 270+36 RT horizontal and verticalDriveway We Energies North horizontal and verticalDriveway We Energies South horizontal and verticalGlacial Drumlin Trail At Grade horizontal and verticalGlacial Drumlin Trail North horizontal and verticalGlacial Drumlin Trail Southeast horizontal and verticalGlacial Drumlin Trail Southwest horizontal and verticalKame Terrace horizontal and verticalKisdon Hills horizontal and verticalLower Pebble Creek horizontal and verticalMacArthur Drive horizontal and verticalMadison Street horizontal and verticalMerrill Hills Court horizontal and verticalMerrill Hill Rd Cul-de-sac 1 horizontal and verticalMerrill Hill Rd Cul-de-sac 2 horizontal and verticalMerrill Hill Rd Cul-de-sac 3 horizontal and verticalMerrill Hill Rd Cul-de-sac 4 horizontal and vertical |

**5a\_Alignment Reports**

|  |  |
| --- | --- |
| **Name of Report File** | **Alignment Information Contained in Report File** |
| AL\_DWY\_20825\_LT.txtAL\_DWY\_20825\_LT\_pro. txtAL\_DWY\_20825\_RT.txtAL\_DWY\_20825\_RT\_pro.txtAL\_DWY\_22280\_RT.txtAL\_DWY\_22280\_RT\_pro.txtAL\_DWY\_24025\_RT.txtAL\_DWY\_24025\_RT\_pro.txt AL\_DWY\_27001\_RT.txtAL\_DWY\_27001\_RT\_pro.txt AL\_DWY\_27036\_RT.txtAL\_DWY\_27036\_RT\_pro.txtAL\_DWY\_WE\_N.txtAL\_DWY\_WE\_N\_pro.txtAL\_DWY\_WE\_S.txtAL\_DWY\_WE\_S\_pro.txtAL\_GDT\_At\_Grade.txtAL\_GDT\_At\_Grade\_pro.txtAL\_GDT\_N.txtAL\_GDT\_N\_pro.txtAL\_GDT\_SE.txtAL\_GDT\_SE\_pro.txtAL\_GDT\_SW.txtAL\_GDT\_SW\_pro.txtAL\_KA.txtAL\_KA\_pro.txtAL\_KH.txtAL\_KH\_pro.txtAL\_MC.txtAL\_MC\_pro.txtAL\_MD.txtAL\_MD\_pro.txtAL\_MHC.txtAL\_MHC\_pro.txtAL\_MHR1.txtAL\_MHR1\_pro.txtAL\_MHR2.txtAL\_MHR2\_pro.txtAL\_MHR3.txtAL\_MHR3\_pro.txtAL\_MHR4.txtAL\_MHR4\_pro.txtAL\_WB.txtAL\_WB\_nb\_protxtAL\_WB\_sb\_pro.txt | Driveway Sta 208+25 LT horizontal reportDriveway Sta 208+25 LT vertical reportDriveway Sta 208+25 RT horizontal reportDriveway Sta 208+25 RT vertical reportDriveway Sta 222+80 LT horizontal reportDriveway Sta 222+80 LT vertical reportDriveway Sta 240+25 LT horizontal reportDriveway Sta 240+25 LT vertical report Driveway Sta 270+01 LT horizontal reportDriveway Sta 270+01 LT vertical reportDriveway Sta 270+36 LT horizontal reportDriveway Sta 270+36 LT vertical reportDriveway We Energies North horizontal reportDriveway We Energies North vertical reportDriveway We Energies South horizontal reportDriveway We Energies South vertical report Glacial Drumlin Trail At Grade horizontal reportGlacial Drumlin Trail At Grade vertical reportGlacial Drumlin Trail North horizontal reportGlacial Drumlin Trail North vertical reportGlacial Drumlin Trail Southeast horizontal reportGlacial Drumlin Trail Southeast vertical reportGlacial Drumlin Trail Southwest horizontal reportGlacial Drumlin Trail Southwest vertical reportKame Terrace horizontal reportKame Terrace vertical reportKisdon Hills horizontal reportKisdon Hills vertical reportMacArthur Drive horizontal reportMacArthur Drive vertical reportMadison Street horizontal reportMadison Street vertical reportMerrill Hills Court horizontal reportMerrill Hills Court vertical reportMerrill Hill Rd Cul-de-sac 1 horizontal reportMerrill Hill Rd Cul-de-sac 1vertical reportMerrill Hill Rd Cul-de-sac 2 horizontal reportMerrill Hill Rd Cul-de-sac 2vertical reportMerrill Hill Rd Cul-de-sac 3 horizontal reportMerrill Hill Rd Cul-de-sac 3 vertical reportMerrill Hill Rd Cul-de-sac 4 horizontal reportMerrill Hill Rd Cul-de-sac 4 vertical reportMainline Waukesha Bypass horizontal Mainline Waukesha Bypass NB PGL verticalMainline Waukesha Bypass SB PGL vertical |

**7\_SuperElevation Data**

|  |  |  |
| --- | --- | --- |
| **Filenames** | **Type of file** | **Description of Super Lines**  |
| Bypass\_Curve7.xlsDrwy\_222\_76Drwy\_222\_76MacArthur\_Curve 1Super\_diagrams.pdf | Super spreadsheetSuper spreadsheetSuper spreadsheetSuper spreadsheetScan of super diagrams | Sta 179+34 to Sta 208+50 Curve to the RTDriveway at 222+76 RT Sta 10+01 to Sta 12+16 Curve to the RTDriveway at 222+76 RT Sta 11+58 to Sta 13+48 Curve to the LTMacArthur Dr Sta 52+23 Sta 55+62 Curve to the RTWaukesha Bypass Sta 173+00 to 273+75 |

**8\_Right-of-Way**

|  |  |
| --- | --- |
| **Filenames** | **Description of files** |
| BL\_rwex.dgnBL\_rwpr.dgnKa\_WB\_ROW.dtm | Microstation of Existing Right-of-Way linesMicrostation of Proposed Right-of-Way linesDigital terrain model with Right-of-Way lines draped over existing surface |

**10\_Proposed Cross Sections (SOE)**

|  |  |
| --- | --- |
| **Filenames** | **Station / Offset / Elevation Text Files**  |
| Bypass\_173\_200\_SOE.txtBypass\_200\_220\_SOE.txtBypass\_221\_246\_SOE.txtBypass\_246\_248\_SOE.txtBypass\_248\_261\_SOE.txtBypass\_261\_274\_SOE.txtDWY\_20825\_RT\_300-302\_SOE.txtDWY\_22280\_RT\_11-13\_SOE.txtDWY\_24025\_RT\_11-13\_SOE.txtDWY\_27001\_RT\_51-52\_SOE.txtDWY\_27001\_RT-SG\_51-52\_SOE.txtDWY\_27036\_RT\_51-52\_SOE.txtDWY\_WE\_N\_11-13\_SOE.txtDWY\_WE\_S\_111-113\_SOE.txtGDT\_46-52\_SOE.txtGDT\_At Grade\_70-71\_SOE.txtGDT\_N\_30-32\_SOE.txtGDT\_SE\_18-20\_SOE.txtGDT\_SW\_10-14\_SOE.txtKame\_48-49\_SOE.txtKisdon\_Hills\_51-54\_SOE.txtMacArthur\_51-57\_SOE.txtMadison\_48-50\_SOE.txtMadison\_50-54\_SOE.txtMHC\_48-49\_SOE.txtMHR1\_61-62\_SOE.txtMHR2\_71-72\_SOE.txtMHR2\_71-72-SG\_SOE.txtMHR2\_76-79\_SOE.txtMHR3\_82-84\_SOE.txtMHR4\_89-91\_SOE.txtTemp\_Widening\_GEN\_LT\_33-38\_SOE.txtTemp\_Widening\_GEN\_RT\_34-38\_SOE.txtTemp\_Widening\_KA\_NW\_LT\_45-48\_SOE.txtTemp\_Widening\_KA\_SW\_RT\_46-47\_SOE.txtTemp\_Widening\_KH\_SE\_RT\_50-56\_SOE.txt | Waukesha Bypass Sta 173+00 to Sta 200+00Waukesha Bypass Sta 201+00 to Sta 220+50Waukesha Bypass Sta 221+00 to Sta 245+50Waukesha Bypass Sta 246+00 to Sta 247+50Waukesha Bypass Sta 248+00 to Sta 260+50Waukesha Bypass Sta 261+00 to Sta 273+75Driveway at Sta 208+25 RT Sta 300+67 to Sta 301+75Driveway at Sta 222+76 RT Sta 10+68 to Sta 11+75Driveway at Sta 240+25 RT Sta 11+00 to Sta 12+42Driveway at Sta 270+01 RT Sta 50+67 to Sta 51+75Driveway at Sta 270+01 RT SUBGRADE Sta 50+67 to Sta 51+75Driveway at Sta 270+36 RT Sta 50+67 to Sta 51+62We Energies North Driveway Sta 10+30 to Sta 12+68We Energies South Driveway Sta 110+10 to Sta 111+93Glacial Drumlin Trail Sta 45+80 to Sta 53+00Glacial Drumlin Trail At-Grade Crossing Sta 70+50 to Sta 71+25Glacial Drumlin Trail North Sta 30+00 to Sta 31+64Glacial Drumlin Trail Southeast Sta 17+54 to Sta 19+90Glacial Drumlin Trail Southwest Sta 10+05 to Sta 13+85Kame Terrace Sta 48+05 to Sta 49+12Kisdon Hills Sta 50+94 to Sta 53+75MacArthur Road Sta 50+97 to Sta 57+60Madison Street Sta 48+00 to Sta 49+25Madison Street Sta 50+50 to Sta 53+97Merrill Hills Court Sta 48+54 to Sta 49+49Merrill Hills Cul-de-Sac 1 Sta 61+50 to Sta 61+86Merrill Hills Cul-de-Sac 2 Sta 71+05 to Sta 72+33Merrill Hills Cul-de-Sac 2 Subgrade Sta 71+05 to Sta 72+33Merrill Hills Cul-de-Sac 2 Sta 75+50 to Sta 78+75Merrill Hills Cul-de-Sac 3 Sta 82+32 to Sta 83+63Merrill Hills Cul-de-Sac 4 Sta 89+88 to Sta 91+19Temporary Widening Genesee LT Sta 33+00 to Sta 38+00Temporary Widening Genesee RT Sta 34+00 to Sta 38+00Temporary Widening Kame Terrace NW LT Sta 45+58 to Sta 48+35Temporary Widening Kame Terrace SW RT Sta 46+36 to Sta 47+00Temporary Widening Kisdon Hills SE RT Sta 50+50 to Sta 55+50 |

**11\_Proposed Surfaces(DTM)**

|  |  |  |
| --- | --- | --- |
| **Filename(s)** | **Station Range of Surface**  | **Name of Surface for data contained in file** |
| Bl\_WB\_Matchlines.dtmBypass\_North\_MD-FC.dtmBypass\_North\_MD-FC-SG.dtmBypass\_South\_RR-MD\_ALT-PGL.dtmBypass\_South\_RR-MD\_ALT-PGL\_SG.dtmBypass\_South\_RR-MD\_rev.dtmBypass\_South\_RR-MD-SG\_rev**.dt**mCTH TT-MacArthur.dtmCTH TT-MacArthur-SG.dtmDWY\_20825\_LT.dtmDWY\_20825\_LT-SG.dtmDWY\_20825\_RT.dtmDWY\_20825\_RT-SG.dtmDWY\_22280\_RT.dtmDWY\_22280\_RT-SG.dtmDWY\_24025\_RT.dtmDWY\_24025\_RT-SG.dtmDWY\_WB\_27001\_RT.dtmDWY\_WB\_27001\_RT-SG.dtmDWY\_WB\_27036\_RT.dtmDWY\_WB\_27036\_RT-SG.dtmDWY\_WE\_N.dtmDWY\_WE\_N-SG.dtmDWY\_WE\_S.dtmDWY\_WE\_S-SG.dtmGDT with Headwalls-SG.dtmGDT\_At-Grade.dtmGDT\_At-Grade-SG.dtmGDT\_N.dtmGDT\_N-SG.dtmGDT\_SE.dtmGDT\_SE-SG.dtmGDT\_SW.dtmGDT\_SW-SG.dtmGDT\_w\_Headwalls.dtmKame.dtmKame-SG.dtmKisdon\_Hill.dtmKisdon\_Hill-SG.dtmLower\_Pebble\_Creek.dtmMacArthur.dtmMacArthur-SG.dtmMadison.dtmMadison-SG.dtmMerrill Hills Ct.dtmMerrill Hills Ct-SG.dtmMHR1.dtmMHR1-SG.dtmMHR2.dtmMHR2-SG.dtmMHR3.dtmMHR3-SG.dtmMHR4.dtmMHR4-SG.dtmSurfaceNew Creek 2-8-17.dtmTemp\_Widening\_Genesee\_RT.dtmTemp\_Widening\_Genesee\_RT-SG.dtmTemp\_Widening\_Kame\_NW\_LT.dtmTemp\_Widening\_Kame\_NW\_LT-SG.dtmTemp\_Widening\_Kame\_SW\_RT.dtmTemp\_Widening\_Kame\_SW\_RT-SG.dtm~~Temp\_Widening\_Kisdon\_NE\_LT.dtm~~~~Temp\_Widening\_Kisdon\_NE\_LT-SG.dtm~~Temp\_Widening\_Kisdon\_SE\_RT.dtmTemp\_Widening\_Kisdon\_SE\_RT-SG.dtmWaterTable7-13 Wauk\_Co.dtm | NASta 261+00 to Sta 273+75Sta 261+00 to Sta 273+75Sta 248+00 to Sta 261+00Sta 248+00 to Sta 261+00Sta 173+00 to Sta 248+00Sta 173+00 to Sta 248+00Sta 50+97 to Sta 57+60Sta 50+97 to Sta 57+60Sta 101+00 to Sta 101+50Sta 101+00 to Sta 101+50Sta 300+67 to Sta 301+75Sta 300+67 to Sta 301+75Sta 10+68 to Sta 11+75Sta 10+68 to Sta 11+75Sta 11+00 to Sta 12+42Sta 11+00 to Sta 12+42Sta 50+67 to Sta 51+75Sta 50+67 to Sta 51+75Sta 50+67 to Sta 51+62Sta 50+67 to Sta 51+62Sta 10+30 to Sta 12+68Sta 10+30 to Sta 12+68Sta 110+10 to Sta 111+93Sta 110+10 to Sta 111+93Sta 45+80 to Sta 54+82Sta 70+50 to Sta 71+25Sta 70+50 to Sta 71+25Sta 30+00 to Sta 31+64Sta 30+00 to Sta 31+64Sta 17+54 to Sta 19+90Sta 17+54 to Sta 19+90Sta 10+05 to Sta 13+85Sta 10+05 to Sta 13+85Sta 45+80 to Sta 54+82Sta 48+05 to Sta 49+12Sta 48+05 to Sta 49+12Sta 50+94 to Sta 53+75Sta 50+94 to Sta 53+75NASta 50+97 to Sta 57+60Sta 50+97 to Sta 57+60Sta 48+00 to Sta 53+97Sta 48+00 to Sta 53+97Sta 48+54 to Sta 49+49Sta 48+54 to Sta 49+49Sta 61+50 to Sta 61+86Sta 61+50 to Sta 61+86Sta71+05 to Sta 72+33 Sta71+05 to Sta 72+33 Sta 82+32 to Sta 83+63Sta 82+32 to Sta 83+63Sta 89+88 to Sta 91+19Sta 89+88 to Sta 91+19Sta 34+00 to Sta 38+00Sta 34+00 to Sta 38+00Sta 45+58 to Sta 48+35Sta 45+58 to Sta 48+35Sta 46+36 to Sta 47+00Sta 46+36 to Sta 47+00NANASta 50+50 to Sta 55+50Sta 50+50 to Sta 55+50 | Existing surface with matchlines draped over surfaceWaukesha BypassWaukesha Bypass SubgradeWaukesha BypassWaukesha Bypass SubgradeWaukesha BypassWaukesha Bypass SubgradeMacArthur RoadMacArthur Road SubgradeDriveway Sta 208+25 LTDriveway Sta 208+25 LT SubgradeDriveway Sta 208+25 RTDriveway Sta 208+25 RT SubgradeDriveway Sta 222+80 RTDriveway Sta 222+80 RT SubgradeDriveway Sta 240+25 RTDriveway Sta 240+25 RT SubgradeDriveway Sta 270+01 RTDriveway Sta 270+01 RT SubgradeDriveway Sta 270+36 RTDriveway Sta 270+36 RT SubgradeDriveway WE Energies NorthDriveway WE Energies North SubgradeDriveway WE Energies SouthDriveway WE Energies South SubgradeGlacial Drumlin Trail with headwalls subgrade Glacial Drumlin Trail At Grade CrossingGlacial Drumlin Trail At Grade Crossing SubgradeGlacial Drumlin Trail NorthGlacial Drumlin Trail North SubgradeGlacial Drumlin Trail SoutheastGlacial Drumlin Trail Southeast SubgradeGlacial Drumlin Trail SouthwestGlacial Drumlin Trail Southwest SubgradeGlacial Drumlin Trail with headwallsKame TerraceKame Terrace SubgradeKisdon HillsKisdon Hills SubgradeLower Pebble CreekMacArthur RoadMacArthur Road SubgradeMadison StreetMadison Street SubgradeMerrill Hills CourtMerrill Hills Court SubgradeMerrill Hills Road Cul-de-Sac 1Merrill Hills Road Cul-de-Sac 1 SubgradeMerrill Hills Road Cul-de-Sac 2Merrill Hills Road Cul-de-Sac 2 SubgradeMerrill Hills Road Cul-de-Sac 3Merrill Hills Road Cul-de-Sac 3 SubgradeMerrill Hills Road Cul-de-Sac 4Merrill Hills Road Cul-de-Sac 4 SubgradeNew Pebble Creek BottomGenesee Road Temporary Widening RTGenesee Road Temporary Widening RT SubgradeKame Terrace Temporary Widening NW LTKame Terrace Temp. Widening NW LT SubgradeKame Terrace Temporary Widening SW RTKame Terrace Temp. widening SW RT SubgradevoidvoidKisdon Hills Temporary Widening to the SE RTKisdon Hills Temporary Widen to SE RT SubgradeGroundwater elevation shown on cross sections |

**12\_Proposed Surfaces (XML)**

|  |  |  |
| --- | --- | --- |
| **Filename(s)** | **Station Range of Surface** | **Name of Surface for data contained in file** |
| Bypass\_North\_MD-FC-SG.xmlBypass\_N\_Mad \_Fid\_Crk.xmlBypass\_N\_RR\_Mad\_Alt\_pgl.xmlBypass\_South\_RR-MDrev.xmlBypass\_South\_RR-MD\_ALT-PGL-SG.xmlBypass\_South\_RR-MD\_SGrev.xmlCTH TT-MacArthur.xmlCTH\_TT\_MacArthur-SG.xmlDrwy\_20825\_LT.xmlDWY\_20825\_LT-SG.xmlDrwy\_20825\_RT.xmlDWY\_20825\_RT-SG.xmlDrwy\_22280\_RT.xmlDWY\_22280\_RT-SG.xmlDrwy\_24025\_RT.xmlDWY\_24025\_RT-SG.xmlDrwy\_27001\_RT.xmlDWY\_WB\_27001\_RT-SG.xmlDrwy\_27036\_RT.xmlDWY\_WB\_27036\_RT-SG.xmlWE\_Drwy\_N.xmlDWY\_WE\_N-SG.xmlWE\_Drwy\_S.xmlDWY\_WE\_S-SG.xmlGDT\_At-Grade\_SG.xmlGDT\_with headwalls-SG.xmlGlacial\_Drumlin\_at\_grade.xmlGlacial\_Drumlin\_N.xmlGDT\_N-SG.xmlGlacial\_Drumlin\_SE.xmlGDT\_SE-SG.xmlGlacial\_Drumlin\_SW.xmlGDT\_SW-SG.xmlGlacial\_Drumlin\_with\_headwalls.xmlKame.xmlKame-SG.xmlKisdon\_Hill.xmlKisdon\_Hill-SG s.xmlMacArthur.xmlMacArthur-SG.xmlMadison.xmlMadison-SG.xmlMerrill\_Hills\_Ct.xmlMerrill\_Hills\_Ct-SG.xmlMerrill\_Hills\_Cul\_de\_Sac\_1.xmlMHR1-SG.xmlMerrill\_Hills\_Cul\_de\_Sac\_2.xmlMR2-SG.xmlMerrill\_Hills\_Cul\_de\_Sac\_3.xmlMerrill\_Hills\_Cul\_de\_Sac\_4.xmlNew\_Creek\_surface\_170208.xmlSurfaceNew Creek 2-8-17.xmlTemp\_widen\_Genesse\_RT.xmlTemp Widening\_Genesee RT-SG.xml~~Temp Widening\_Kisdon\_NE\_LT-SG.xml~~Temp Widening\_Kisdon\_SE\_RT-SG.xmlTemp\_Widen\_KA\_NW\_LT.xmlTemp\_Widen\_KA\_NW\_LT-SG.xmlTemp\_Widen\_KA\_SW\_RT.xmlTemp\_Widen\_KA\_SW\_RT-SG.xmlWater Table 7-13 Wauk.xml | Sta 261+00 to Sta 273+75Sta 261+00 to Sta 273+75Sta 248+00 to Sta 261+00Sta 173+00 to Sta 248+00Sta 248+00 to Sta 261+00Sta 173+00 to Sta 248+00Sta 50+97 to Sta 57+60Sta 50+97 to Sta 57+60Sta 101+00 to Sta 101+50Sta 101+00 to Sta 101+50Sta 300+67 to Sta 301+75Sta 300+67 to Sta 301+75Sta 10+68 to Sta 11+75Sta 10+68 to Sta 11+75Sta 11+00 to Sta 12+42Sta 11+00 to Sta 12+42Sta 50+67 to Sta 51+75Sta 50+67 to Sta 51+75Sta 50+67 to Sta 51+62Sta 50+67 to Sta 51+62Sta 10+30 to Sta 12+68Sta 10+30 to Sta 12+68Sta 110+10 to Sta 111+93Sta 110+10 to Sta 111+93Sta 70+50 to Sta 71+25Sta 45+80 to Sta 54+82Sta 70+50 to Sta 71+25Sta 30+00 to Sta 31+64Sta 30+00 to Sta 31+64Sta 17+54 to Sta 19+90Sta 17+54 to Sta 19+90Sta 10+05 to Sta 13+85Sta 10+05 to Sta 13+85Sta 45+80 to Sta 54+82Sta 48+05 to Sta 49+12Sta 48+05 to Sta 49+12Sta 50+94 to Sta 53+75Sta 50+94 to Sta 53+75Sta 50+97 to Sta 57+60Sta 50+97 to Sta 57+60Sta 48+00 to Sta 53+97Sta 48+00 to Sta 53+97Sta 48+54 to Sta 49+49Sta 48+54 to Sta 49+49Sta 61+50 to Sta 61+86Sta 61+50 to Sta 61+86Sta71+05 to Sta 72+33 Sta71+05 to Sta 72+33 Sta 82+32 to Sta 83+63Sta 89+88 to Sta 91+19NANASta 34+00 to Sta 38+00Sta 34+00 to Sta 38+00voidSta 50+50 to Sta 55+50Sta 45+58 to Sta 48+35Sta 45+58 to Sta 48+35Sta 46+36 to Sta 47+00Sta 46+36 to Sta 47+00 | Waukesha Bypass SubgradeWaukesha Bypass Waukesha Bypass Waukesha Bypass Waukesha Bypass SubgradeWaukesha Bypass SubgradeMacArthur RoadMacArthur Road SubgradeDriveway Sta 208+25 LTDriveway Sta 208+25 LT SubgradeDriveway Sta 208+25 RTDriveway Sta 208+25 RT SubgradeDriveway Sta 222+80 RTDriveway Sta 222+80 RT SubgradeDriveway Sta 240+25 RTDriveway Sta 240+25 RT SubgradeDriveway Sta 270+01 RTDriveway Sta 270+01 RT SubgradeDriveway Sta 270+36 RTDriveway Sta 270+36 RT SubgradeDriveway WE Energies NorthDriveway WE Energies North SubgradeDriveway WE Energies SouthDriveway WE Energies South SubgradeGlacial Drumlin Trail At Grade Crossing SubgradeGlacial Drumlin Trail with headwalls subgrade Glacial Drumlin Trail At Grade CrossingGlacial Drumlin Trail NorthGlacial Drumlin Trail North SubgradeGlacial Drumlin Trail SoutheastGlacial Drumlin Trail Southeast SubgradeGlacial Drumlin Trail SouthwestGlacial Drumlin Trail Southwest SubgradeGlacial Drumlin Trail with headwallsKame TerraceKame Terrace SubgradeKisdon HillsKisdon Hills SubgradeMacArthur RoadMacArthur Road SubgradeMadison StreetMadison Street SubgradeMerrill Hills CourtMerrill Hills Court SubgradeMerrill Hills Road Cul-de-Sac 1Merrill Hills Road Cul-de-Sac 1 SubgradeMerrill Hills Road Cul-de-Sac 2Merrill Hills Road Cul-de-Sac 2 SubgradeMerrill Hills Road Cul-de-Sac 3Merrill Hills Road Cul-de-Sac 4Pebble Creek SurfacePebble Creek SurfaceGenesee Road Temporary Widening RTGenesee Road Temporary Widening RT SubgradeKisdon Hills Temporary Widening to the SE RTKame Terrace Temporary Widening NW LTKame Terrace Temp. Widening NW LT SubgradeKame Terrace Temporary Widening SW RTKame Terrace Temp. widening SW RT SubgradeGroundwater elevation shown on cross sections |

**13\_Graphical Data – Reference Files**

|  |  |
| --- | --- |
| Filename(s) | Name of Surface for data contained in file |
| BL\_ad\_ref.dgnBL\_ad\_txt.dgnBL\_ad\_txt\_060917.dgnBL\_ad\_txt\_170630.dgnBL\_ali.dgnBL\_ali\_noisewall.dgnBL\_ali\_opp.dgnBL\_ali\_sideroad.dgnBL\_ali\_trail.dgnBL-bdr\_2.dgnBL-bdr\_5.dgnBL-bdr\_5\_split.dgnBL\_bdr\_dbl\_prof.dgnBL\_bdr\_half\_prof.dgnBL\_bdr\_whole\_prof.dgnBL\_buckthorn.dgnBL\_detour\_topo.dgnBL\_ec.dgnBl\_ec1.dgnBl\_ec2a.dgnBl\_ec2b.dgnBl\_ec2c.dgnBl\_ec2d.dgnBl\_ec2e.dgnBl\_ec3.dgnBl\_ec4.dgnBL\_ec\_s1\_ref.dgnBL\_ec\_s1\_txt.dgnBL\_ec\_s2a\_ref.dgnBL\_ec\_s2a\_txt.dgnBL\_ec\_s2b\_ref.dgnBL\_ec\_s2b\_txt.dgnBL\_ec\_s2c\_ref.dgnBL\_ec\_s2c\_txt.dgnBL\_ec\_s2d\_ref.dgnBL\_ec\_s2d\_txt.dgnBL\_ec\_s2e\_ref.dgnBL\_ec\_s2e\_txt.dgnBL\_ec\_s3\_ref.dgnBL\_ec\_s3\_txt.dgnBL\_ec\_s4\_ref.dgnBL\_ec\_s4\_ref40.dgnBL\_ec\_s4\_txt.dgnBL\_ec\_s5\_ref.dgnBL\_ec\_s5\_txt.dgnBL\_ec\_smc.dgnBL\_ex\_contours.dgnBL\_gen \_notes.xlsBL\_id\_ref.dgnBL\_id\_txt.dgnBL\_noisewalls.dgnBL\_pavt.dgnBL\_pd\_legend.dgnBL\_pg\_planimetrics.dgnBL-pg\_ref.dgnBL\_pg\_txt.dgnBL\_pm exhibit.dgnBL\_pm\_txt\_160719.dgnBL\_pond\_ref.dgnBL\_pond\_txt.dgnBL\_po\_ref.dgnBL\_po\_txt.dgnBL\_pp\_prof.dgnBL\_pp\_prof\_sides.dgnBL\_pp\_ref.dgnBL\_pp\_sideroad\_ref.dgnBL\_pp\_sideroad\_txt.dgnBL\_pp\_trail\_ref.dgnBL\_pp\_txt.dgnBL\_prarie.dwgBL\_pr\_contours.dgnBL\_pr\_contours\_trail only.dgnBL\_pr\_ditch.dgnBL\_rwex.dgnBL\_rwpr.dgnBL\_seed2D.dgnBL\_seed3D.dgnBL\_si.dgnBL\_Surveyed\_Wetland\_Boundaries.dgnBL\_tc\_s1.dgnBL\_tc\_s1a.dgnBL\_tc\_s1a\_ref.dgnBL\_tc\_s1\_ref.dgnBL\_tc\_s2a.dgnBL\_tc\_s2a\_ref.dgnBL\_tc\_s2b.dgnBL\_tc\_s2b\_ref.dgnBL\_tc\_s2c.dgnBL\_tc\_s2c\_ref.dgnBL\_tc\_s2d.dgnBL\_tc\_s2d\_ref.dgnBL\_tc\_s2e.dgnBL\_tc\_s2e\_ref.dgnBL\_tc\_s2f.dgnBL\_tc\_s2F\_ref.dgnBL\_tc\_s3.dgnBL\_tc\_s3b.dgnBL\_tc\_s3b\_ref.dgnBL\_tc\_s3c.dgnBL\_tc\_s3c\_ref.dgnBL\_tc\_s3\_ref.dgnBL\_tc\_s4.dgnBL\_tc\_s4\_ref.dgnBL\_tc\_xs\_linework.dgnBL\_temp\_pavt.dgnBL\_temp\_si.dgnBL\_temp\_ss.dgnBL\_tpp\_ref.dgnBL\_tpp\_txt.dgnBL\_uti.dgnBL\_wetland larger scale.dgnBL\_wetland.dgnBL\_wetland50.dgnBL\_xm\_ref.dgnBL\_xm\_txt.dgndetour2.jpgdetour3.jpgdetour3rev.jpgdetour4.jpgGENERAL NOTES.xlska\_BYPASS\_rwpr.dgnka\_BYPASS\_Wetlands\_newpattern.dgnWaukBypass\_Delineated-Surveyed\_Wetlands.dgn**Pavement Marking:**HN\_pm.dgnBL\_pm.dgnToki\_Sht\_BL.dgnToki\_Sht\_HN.dgn**Signals:**cuts.dgnexploded\_TS\_Signals.dgnLP\_lighting.dgnTS\_Signals.dgnTS\_Signakls\_extensions.dgn | Alignment Base Reference Alignment TextOld Alignment TextOld Alignment TextAlignments MainlineNoise Wall AlignmentsAlignments displayed in opposite directionAlignments of Side RoadsAlignments of Glacial Drumlin TrailsBorder Files for Section 2 SheetsBorder Files for Section 5 SheetsBorder Files for Section 5 Sheets with Plan on one sheet and Profile on another sheetBorder Files for Section 5 Sheets with double profilesBorder Files for Section 5 Sheets with half sheet of profilesBorder Files for Section 5 Sheets with entire sheet of profilesInvasive Species Base FileAdditional edges of roadways for detours (Limits beyond Construction Limits)Old Erosion Control FileErosion Control Stage 1Erosion Control Stage 2aErosion Control Stage 2bErosion Control Stage 2cErosion Control Stage 2dErosion Control Stage 2eErosion Control Stage 3Erosion Control Stage 4Erosion Control Stage 1 Text Base Reference FileErosion Control Stage 1TextErosion Control Stage 2a Text Base Reference FileErosion Control Stage 2a TextErosion Control Stage 2b Text Base Reference FileErosion Control Stage 2b TextErosion Control Stage 2c Text Base Reference FileErosion Control Stage 2c TextErosion Control Stage 2d Text Base Reference FileErosion Control Stage 2d TextErosion Control Stage 2e Text Base Reference FileErosion Control Stage 2e TextErosion Control Stage 3 Text Base Reference FileErosion Control Stage 3 TextErosion Control Stage 4 Text Base Reference FileErosion Control Stage 4 at 40 scaleErosion Control Stage 4 TextErosion Control Stage 5 Text Base Reference FileErosion Control Stage 5 TextOld Erosion Control fileExisting ContoursGeneral Notes (ref’ed into power point sheet)Intersection Detail Base Reference FileIntersection Details Text FileNoise WallsPavement EdgesPaving Detail LegendPerpendicular lines to alignments displayedPaving Grade Base Reference FilePaving Grade Text FileBase File for PIM ExhibitOld pavement marking txt filePond Base Reference File Pond TextProject Overview Text Base Reference FileProject Overview Text FileProfiles of MainlineProfiles of Side RoadsPlan and Profile Mainline Base Reference FilePlan and Profile Side Road Base Reference FilePlan and Profile Side Road Text FilePlan and Profile Trail Base Reference FilePlan and Profile Mainline Text FilePrairie BoundariesProposed ContoursProposed Contours at TrailsProposed ditch linesExisting Right-of-Way linesProposed Right-of-Way lines2D Seed File3D Seed FileSlope interceptsSurveyed Wetland BoundariesTraffic Control Stage 1Traffic Control Stage 1aTraffic Control Stage 1a Base Reference FileTraffic Control Stage 1 Base Reference FileTraffic Control Stage 2aTraffic Control Stage 2a Base Reference FileTraffic Control Stage 2cTraffic Control Stage 2c Base Reference File Traffic Control Stage 2dTraffic Control Stage 2d Base Reference File Traffic Control Stage 2bTraffic Control Stage 2b Base Reference File Traffic Control Stage 2eTraffic Control Stage 2e Base Reference File Traffic Control Stage 2e-2Traffic Control Stage 2e-2 Base Reference File Traffic Control Stage 3Traffic Control Stage 3-2Traffic Control Stage 3-2 Base Reference FileTraffic Control Stage 3-3Traffic Control Stage 3-3 Base Reference File Traffic Control Stage 3 Base Reference File Traffic Control Stage 4Traffic Control Stage 4 Base Reference File Staging lines for Cross SectionsTemporary Pavement edgesSlope Intercepts for Temporary WideningStorm Sewer Pipes for Temporary DrainageRight of Way Plat Base Reference FileRight of Way Plat TextUtility linesWetland Boundaries larger scaleWetland Boundaries smaller scaleWetland Boundaries at 50 scaleCross Section Matchline Base Reference FileCross Section Matchline TextOpen Street Image for Detour 2Open Street Image for Detour 3Open Street Image for Detour 3 revisedOpen Street Image for Detour 4General Notes (referenced into power point sheet)Waukesha Bypass Proposed Right-of-Way fileWetland Boundaries with updated patternWetland BoundariesPavement Parking Base File (South of Sta 173+00)Pavement Parking Base File (North of Sta 173+00)Master Reference file for PM Sheets (South of Sta 173+00)Master Reference file for PM Sheets (North of Sta 173+00)Signal Sheets Cuts (Layout)Exploded Traffic SignalsLighting Base FileSignal Base FileSignal Base File Extensions |

**14\_Graphical Data – Plan Sheets**

|  |  |
| --- | --- |
| Filename(s) | Name of Surface for data contained in file |
| by\_010101\_ti.dgnby\_010111\_sg.dgnby\_020101\_gn.pptby\_020201\_po.dgnby\_020202\_po.dgnby\_020203\_po.dgnby\_020301\_ts.dgnby\_020401\_ts.dgnby\_021001\_cd.dgnby\_021007\_cd.dgnby\_021008\_cd.dgnby\_021009\_cd.dgnby\_021010\_cd.dgnby\_021011\_cd.dgnby\_021012\_cd.dgnby\_021013\_cd.dgnby\_021014\_cd.dgnby\_021015\_rrd.dgnby\_021016\_dmc.dgnby\_021018\_cd.dgnby\_021020\_cd.dgnby\_021021\_cd.dgnby\_021022\_cd.dgnby\_021024\_cd\_sun.dgnby\_021043\_cd.dwgby\_021107\_id.dgn - by\_021115\_id.dgnby\_021321\_pg.dgn - by\_021338\_pg.dgnby\_021361\_pg.dgn - by\_021369\_pg.dgnby\_021721\_xm.dgn - by\_021726\_xm.dgnby\_022001\_ec1.dgn - by\_022006a\_ec1.dgnby\_022007\_ec2a.dgn - by\_022020\_ec2a.dgnby\_022021\_ec2b.dgnby\_022022\_ec2c.dgn - by\_022023\_ec2c.dgnby\_022024\_ec2d.dgn - by\_022025\_ec2d.dgnby\_022026\_ec2e.dgn - by\_022028b\_ec2e.dgnby\_022029\_ec3.dgn - by\_022035\_ec3.dgnby\_022036\_ec4.dgn - by\_022039\_ec4.dgnby\_024501\_pm -by\_024531\_pmby\_024532\_pm -by\_024546\_pmby\_025001\_tc.dgnby\_025002\_tc.dgnby\_026111\_s1\_tc.dgn - by\_026120\_s1\_tc.dgnby\_026115a\_s1a\_tc.dgn - by\_026115e\_s1a\_tc.dgnby\_026121\_s2a\_tc.dgn - by\_026138\_s2a\_tc.dgnby\_026139\_s2b\_tc.dgnby\_026140\_s2c\_tc.dgn - by\_026141\_s2c\_tc.dgnby\_026150\_s2d\_tc.dgn - by\_026156\_s2d\_tc.dgnby\_026161\_s2e\_tc.dgn - by\_026168\_s2e\_tc.dgnby\_026171\_s3\_tc.dgn - by\_026187\_s3\_tc.dgnby\_026191\_s4\_tc.dgn - by\_026201\_s4\_tc.dgnby\_027001\_dt.dgn - by\_027013\_dt.dgnby\_027201\_ad.dgn - by\_027204a\_ad.dgnby\_030201\_mq.pptby\_030201a\_mq.pptby\_030401\_mq.pptby\_030601\_mq.pptby\_030801\_mq.pptby\_030802\_mq.pptby\_050100\_pp.dgnby\_050151\_pp.dgn - by\_050195\_pp.dgnby\_050341\_pp.dgn - by\_050355\_pp.dgnby\_050401\_pp.dgn - by\_050406\_pp.dgnby\_050501\_pp.dgn - by\_050509\_pp.dgnby\_077001\_dtsd.dgnby\_090101\_ew.pptby\_090202\_XS\_WB.dgnby\_090202a\_XS\_WB.dgnby\_090203\_XS\_WB.dgnby\_090203a\_XS\_WB.dgnby\_090204\_XS\_WB.dgnby\_090305\_XS\_MHR.dgnby\_090306\_XS\_MHR.dgnby\_090307\_XS\_MC.dgnby\_090307a\_XS\_MHR.dgnby\_090308\_XS\_MHR.dgnby\_090309\_XS\_KA.dgnby\_090310\_XS\_MHR.dgnby\_090311\_XS\_MHC.dgnby\_090312\_XS\_MD.dgnby\_090313\_XS\_KH.dgnby\_090401\_XS\_GDT.dgnby\_090402\_XS\_GDT\_SW.dgnby\_090403\_XS\_GDT\_SE.dgnby\_090404\_XS\_GDT\_N.dgnby\_090405\_XS\_GDT\_AT-GRADE.dgnby\_090501\_XS\_DWY\_20825\_RT.dgn by\_090502\_XS\_DWY\_22276\_RT.dgn by\_090503\_XS\_DWY\_24025\_RT.dgn by\_090504\_XS\_DWY\_27001\_RT.dgn by\_090505\_XS\_DWY\_27036\_RT.dgn by\_090507\_XS\_DWY\_WE\_N.dgnby\_090508\_XS\_DWY\_WE\_S.dgnby\_090602\_xs\_temp\_wide\_GEN.dgnby\_090602\_xs\_temp\_wide\_GEN2.dgnby\_090603\_xs\_temp\_wide\_KA.dgnby\_090604\_xs\_temp\_wide\_KH.dgn | Title SheetEngineer Seals Signature SheetGeneral Notes (Power Point 2 sheets)Project Overview (Sheet 1 of 3)Project Overview (Sheet 2 of 3)Project Overview (Sheet 3 of 3)Existing Typical SectionsFinished Typical SectionsConstruction Details (Sheet 1-20)Construction Details Fen ProtectionConstruction Details Temp Impacts to WetlandsConstruction Details Temp Impacts to WetlandsConstruction Details Temp Impacts to WetlandsConstruction Details Pond 201LTConstruction Details Pond 214LTConstruction Details Staging of C-67-91Construction Detail Hazmat SoilsConstruction Detail WSOR CrossingConstruction Detail Concrete barrier Type S36 TransitionConstruction Detail Pebble Creek Debris RemovalConstruction Details Invasive Species Management Construction Details Invasive Species Management Construction Details Invasive Species Management Construction Details Salvaged Sundrop TopsoilConstruction DetailIntersection Details (curb ramps)Paving Grades MainlinePaving Grades Side RoadsCross Section Matchline PlansErosion Control Sheets Stage 1Erosion Control Sheets Stage 2aErosion Control Sheets Stage 2bErosion Control Sheets Stage 2cErosion Control Sheets Stage 2dErosion Control Sheets Stage 2eErosion Control Sheets Stage 3Erosion Control Sheets Stage 4Pavement Marking Plans MainlinePavement Marking Plans Side RoadsTraffic Control / Staging Legend SheetTraffic Control Detail SheetsTraffic Control Stage 1Traffic Control Stage 1aTraffic Control Stage 2aTraffic Control Stage 2cTraffic Control Stage 2bTraffic Control Stage 2dTraffic Control Stage 2eTraffic Control Stage 3Traffic Control Stage 4Traffic Control Detour SheetsAlignment Plans Miscellaneous Quantity Sheets (Sheets 1-18)Miscellaneous Quantity Sheet (first Storm Sewer Sheet)Miscellaneous Quantity Sheets (10 Sheets)Miscellaneous Quantity Sheets (6 Sheets)Miscellaneous Quantity Sheet (City of Waukesha Water)Miscellaneous Quantity Sheet (City of Waukesha Sanitary)Plan and Profile Sheet LegendPlan and Profile Plans Mainline (Sta 173+00 to Sta 273+75)Plan and Profile Plans Side RoadsPlan and Profile Plans TrailsPlan and Profile Plans DrivewaysSign Detail SheetEarthwork Data Plan SheetsCross Sections Mainline Sta 173+00 to Sta 200+00Cross Sections Mainline Sta 200+50 to Sta 220+50Cross Sections Mainline Sta 221+00 to Sta 245+50Cross Sections Mainline Sta 246+00 to Sta 260+50Cross Sections Mainline Sta 261+00 to Sta 273+75Cross Sections Merrill Hills Cul-de-SacCross Sections Merrill Hills Cul-de-SacCross Sections MacArthur RoadCross Sections Merrill Hills Cul-de-SacCross Sections Merrill Hills Cul-de-Sac Cross Sections Kame TerraceCross Sections Merrill Hills Cul-de-SacCross Sections Merrill Hills CourtCross Sections Madison StreetCross Sections Kisdon HillsCross Sections Glacial Drumlin TrailCross Sections Glacial Drumlin Trail SouthwestCross Sections Glacial Drumlin Trail SoutheastCross Sections Glacial Drumlin Trail NorthCross Sections Glacial Drumlin Trail At GradeCross Sections Driveway Sta 208+25 RT Cross Sections Driveway Sta 222+76 RT Cross Sections Driveway Sta 240+25 RTCross Sections Driveway Sta 270+01 RT Cross Sections Driveway Sta 270+36 RTCross Sections WE Energies Driveway North Cross Sections WE Energies Driveway SouthCross Sections Genesee Rd Temporary Widening Cross Sections Genesee Rd Temporary WideningCross Sections Kame Terrace Temp Widening Cross Sections Kisdon Hills Temp Widening |

 August 3, 2018

 (Authorized Representative Signature) (Date)

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Susan\_Cook\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 (Print Name)

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_Senior Transportation Engineer\_\_\_\_\_\_\_

 (Title)