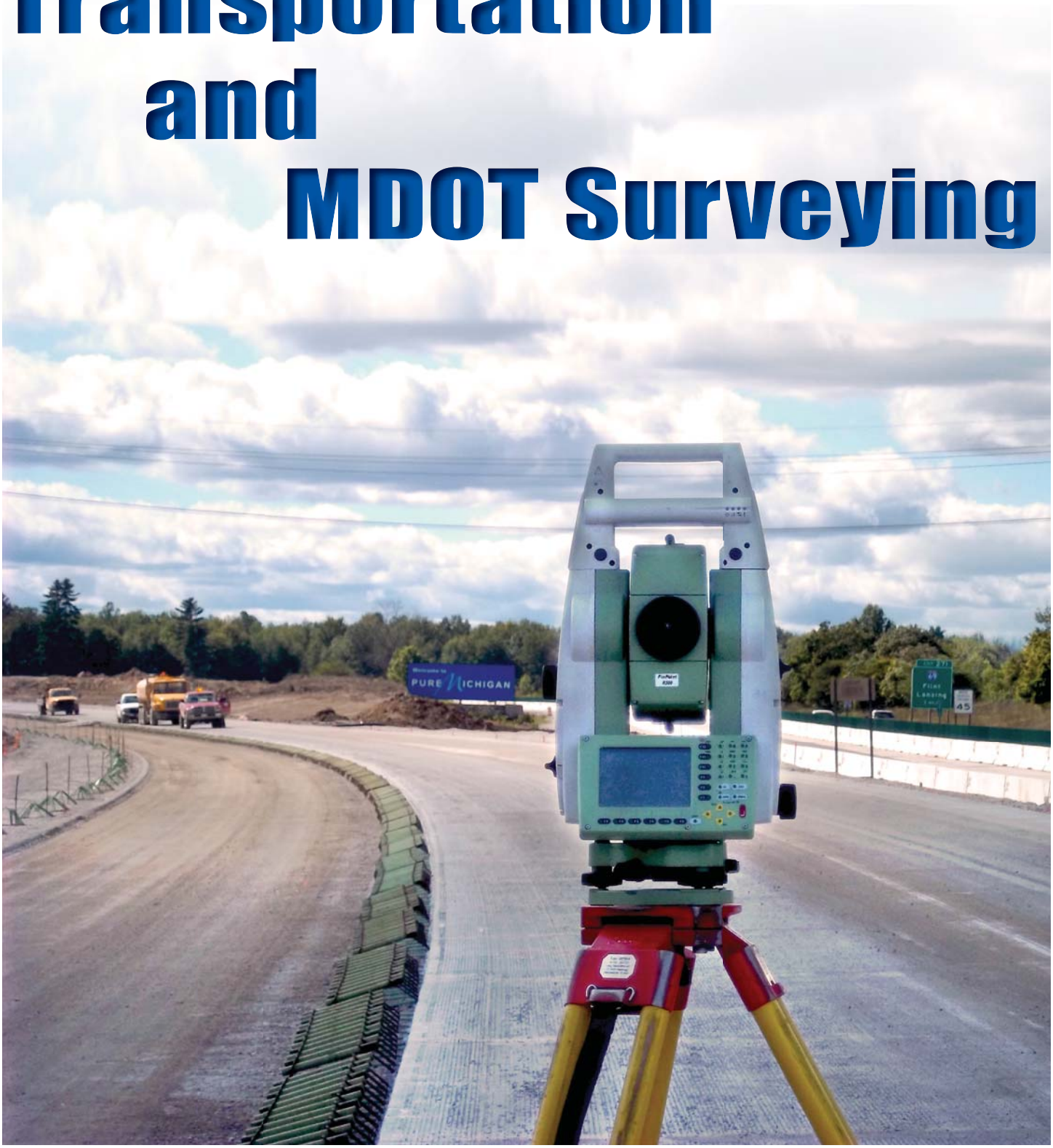
Spalding DeDecker Associates, Inc.

Surveying Specialty

Transportation and MDOT Surveying



Spalding DeDecker Associates, Inc.

Transportation and MDOT Surveying

Overview

Spalding DeDecker Associates, Inc.'s (SDA) Survey Department is experienced in providing detailed surveys for all forms of transportation, including **roads, aviation, and railways**. Our work includes preliminary design surveys at the onset of a project, as well as construction layout and as-built measurements during the construction phase.

We have experience with a number of municipalities and road commissions, but our biggest client is the Michigan Department of Transportation (MDOT). We are experienced and prequalified in:

- **Construction Staking** • **Hydraulic Surveys** • **Photogrammetric Control Surveys** •
- **Right of Way Surveys** • **Road Design Surveys** • **Structure Surveys** •

We have performed dozens of projects for MDOT on both the design and construction side. We have a thorough understanding of the Design Survey Manual, the latest Standards of Practice for Design Surveys, and the Michigan Standard Specifications for Construction, and understand the use of standard and special details during construction. We are experienced in preparing detailed grade sheets and computing digital terrain models (DTM) for use with the latest machine guidance systems during construction. We are proficient in using both CAiCE and PowerGEOPAK to complete surveys to MDOT standards.

With an experienced in-house transportation design group, we have performed surveys for our own design projects and have provided surveys directly to MDOT. Having held as-needed design and construction survey contracts both state wide and through several MDOT Transportation Service Centers (TSC's) for several years running, we are able to meet the varying demands of a number of different stakeholders.

We are strong advocates of performing full-staking services directly for MDOT, and have seen first-hand the benefits to MDOT for increased service and value, elimination of apparent conflicts of interest, less rework and plan errors, and lower overall project costs.

"SDA played a critical role by providing Construction Survey Staking on three of our largest road and bridge reconstruction projects.

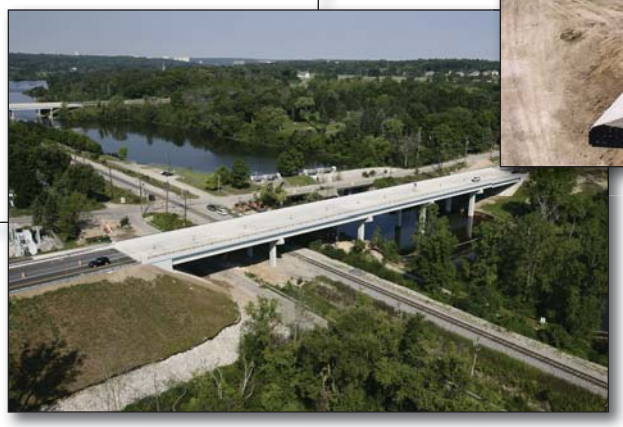
On each of these projects, SDA was knowledgeable and provided personnel with excellent qualifications who could complete the scope of services with minimal guidance.

SDA supplied all resources required to complete the scope of services, followed good safety practices, and provided complete and accurate work following WCRC and MDOT requirements. Most importantly, SDA communicated in a thorough and concise manner, was proactive in initiating project coordination, responded quickly in frequently changing situations, and anticipated potential problems - usually with recommendations for solutions.

SDA personnel and resources were readily available on short notice and assisted us in meeting our schedule deadlines.

The WCRC has been very impressed with the quality of Construction Survey Staking services delivered on our projects and would highly recommend Spalding DeDecker Associates, Inc. for these services on future projects."

--Sheryl Soderholm Siddall, PE, Assistant Director of Engineering, Washtenaw County Road Commission



Spalding DeDecker Associates, Inc.

Transportation and MDOT Surveying

Design Survey

SDA routinely performs surveys on MDOT projects including **Design, Hydraulic, Structure, Right of Way,** and **Photogrammetric Control Surveys**. We are well-versed in MDOT procedures as outlined in the latest Standards of Practice, Design Survey Manual, and RTK Guidelines along with other supplemental instructions and specifications. We have the manpower and knowledge to tackle any size project, from small to large.

SDA has a wealth of experience on MDOT projects. A large amount of the work performed by our Survey Department is related to providing information to our engineering design staff. Of those design survey projects, many are directly related to the design of road and bridge improvements. Our experience on those projects, from the initial mapping through the final construction layout of the project, has allowed us to develop a consistent process for performing this work. Our experience on this type of work gives us an advantage over our competitors.

We currently have **four licensed professional surveyors** who provide daily supervision to our **eight field crews**. Our Survey Department is supported by **three CAD Technicians**, who are specifically dedicated to our Department and work under the supervision of the licensed surveyors. Two of the CAD Technicians have extensive experience using **CAiCE**, and are keeping up with the transition to **Power Geopak**. Our field crews have experience in our full spectrum of projects including construction layout, building layout, topographical surveys, and engineering surveys. However, we strive to dedicate our crews to a particular type of work or client to the greatest degree possible, in an effort to gain additional experience and productivity through repetition.

We provide a qualified and experienced staff. Our newest full-time employee is Joshua McIntyre, SIT, a recent graduate of Ferris State University's Surveying Engineering program and a Surveyor in Training. Our most experienced veteran is Pat O'Rourke, PS, who brings more than 53 years of experience to the Team. The rest of the team falls between these two extremes, with the majority of the Survey Department team members offering more than a decade of experience.

In addition to our Survey Department, we are able to draw upon the resources of our full-service engineering staff if special issues arise. We have a Construction Engineering Department and a Transportation Department that specialize in road and bridge design. We would anticipate that both of these departments, along with the rest of our design staff, could provide valuable resources on MDOT projects.

Many of our staff participate regularly in any learning events that MDOT hosts. This includes regular, consistent participation in the **Michigan Transportation Technology Users' Group (MTTUG)** meetings. We have found these meetings to be invaluable, as we have learned many fine details of the design survey process that may have otherwise been overlooked. We have also found the meetings to have great value in keeping up-to-date with the ongoing transitions involved with the reinvented MDOT structure, allowing us to plan how we can continue to work hand-in-hand with and contribute to MDOT's success as everyone's roles are refined.

We have also kept abreast of the standards changes and training sessions related to the transition from **CAiCE to Power Geopak**. We hope that our proficiency in CAiCE will ease this transition, and look forward to implementing the new system on a project.

We were also fortunate to experiment with a beta version of the **Michigan Structure Inventory System (MISIS)** and provide our input as a test user. We found the program to be a great time saver on the back end of the project when we had to export structure tables in pdf and Excel formats, in addition to the time saved during the CAD process in drawing in the connections. The program also eliminates math errors and transcription errors. We were very pleased with the program and believe it will result in efficiency and accuracy. We have used the program on several other projects since the initial testing.

We are also able to utilize a digital camera to **geotag photos**. With a built-in GPS receiver, the unit is able to add metadata to each picture, including the latitude and longitude of the picture along with the direction the camera was pointing. This avoids any question on where the picture was taken, and allows the photos to be brought into programs such as Google Earth as intelligent data containing positional attributes. The picture's location can be plotted in an overall view, allowing the user to then click on the photo for a close-up, just like using the **street-level view** in **Google Earth**.

Transportation and MDOT Surveying

We are able to draw on our experience with other clients to increase our abilities on MDOT projects. For example, in addition to MDOT we have performed hydraulic surveys for the **Army Corps of Engineers** and the **Federal Emergency Management Agency (FEMA)**. This supplemental experience has only reinforced our understanding of what to focus on when performing hydraulic surveys. It also demonstrates our flexibility in meeting the specific requirements for a variety of agencies, each with its own set of demanding specifications.

Contractor Staking

SDA is experienced in performing preliminary staking, engineer staking, contractor staking, and full-staking services for MDOT.

In addition to performing projects directly for contractors, we have gained a wealth of experience while performing as-needed staking services for several MDOT Transportation Service Centers (TSC's) including Port Huron, Bay City, and Taylor. Surveying is a professional service, and using a qualifications-based selection assures that the project is serviced by the most qualified and experienced consultant and staff. This arrangement allows MDOT to contract directly with the survey consultant, eliminating any apparent conflict of interest that may be created when the survey consultant works directly for the contractor yet is responsible for measuring volume computations that are utilized to compute the contractor's pay requests. We have also seen a decrease in plan errors resulting in rework when the survey consultant works directly for MDOT. This arrangement also allows MDOT to have a surveyor on-call for spot checks and miscellaneous odd tasks that frequently arise during a project. Through our experience with multiple TSC's, we have seen the nuances between how different offices and individuals within MDOT utilize our services to best meet their needs and the flexibility to them that this style of contract allows. We have also worked with numerous other stakeholders in the process, including multiple contractors and other consultants, and believe that this arrangement is truly a win-win situation for all parties involved.

We are comfortable both with traditional staking concepts, such as using standard details as a supplement to the design plans, as well as working with the latest construction technology including machine control and guidance systems. We have developed a useful standard format for **grade sheets**, which are organized into a bookmarked-pdf document for each project. We are also expert in creating flawless **digital terrain models (DTM)**, calculated to exactly match the grade sheets and to remove any flaws that may be present in the raw surface created by the designers.

I94 1118+39.67 to 1312+98.59 East Bound Grade Sheets

Station	Median Ditch Toe Elev.	Median Ditch Toe Offset	Slope 1v:Xh	W2 Elev.	W2 Offset	-20o/s Agg. Shoulder -0.04%	-17o/s Conc. Shoulder -0.04%	-12o/s Conc. Lane -0.02%	0 CL	12o/s Conc. Lane -0.02%	24o/s Conc. Shoulder -0.04%	o/s Agg. Shoulder	Elev. Agg. Shoulder -0.04%	W2 Elev.	W2 Offset	Slope 1v:Xh	Right Ditch Left toe Bot. Ditch Elev.	Right Ditch Left toe Bot. Ditch Offset	Right Ditch Right Toe Bot. Ditch Elev.	Right Ditch Right Toe Bot. Ditch Offset	Slope 1v:Xh	Slope Stake Elev.	Slope Stake Offset	cf cut/fill	dc	Ag. Shoulder Cut/fill	Stk to hinge dist	Note
1118+39.67						647.55	647.67	647.87	648.11	647.87	647.39	26.00	647.31															
1118+50	643.57	43.02	5.80	645.18	33.70	647.54	647.66	647.86	648.10	647.86	647.38	26.00	647.30	645.05	40.14	6.28	640.52	68.54	640.52	72.54								
1119+00	643.42	42.97	5.64	645.13	33.29	647.49	647.61	647.81	648.05	647.81	647.33	26.00	647.25	645.00	40.13	6.27	640.30	69.56	640.30	73.56	6.01	643.90	95.16	4.15	-3.60	3.35	21.60	
1119+50	643.27	42.92	5.49	645.09	32.90	647.44	647.56	647.76	648.00	647.76	647.28	26.00	647.20	644.95	40.11	6.27	640.08	70.58	640.08	74.58								
1120+00	643.12	42.86	5.35	645.05	32.52	647.39	647.51	647.71	647.95	647.71	647.23	26.00	647.15	644.90	40.09	6.26	639.86	71.60	639.86	75.60	5.00	643.80	95.30	4.15	-3.94	3.35	19.70	
1120+50	642.97	42.81	5.22	645.01	32.17	647.34	647.46	647.66	647.90	647.66	647.18	26.00	647.10	644.85	40.08	6.25	639.64	72.62	639.64	76.62								
1121+00	642.82	42.76	5.09	644.96	31.84	647.29	647.41	647.61	647.85	647.61	647.13	26.00	647.05	644.80	40.06	6.25	639.42	73.64	639.42	77.64	3.00	644.20	91.98	3.65	-4.78	2.85	14.34	
1121+50	642.67	42.71	4.96	644.92	31.52	647.24	647.36	647.56	647.80	647.56	647.08	26.00	647.00	644.75	40.05	6.24	639.20	74.66	639.20	78.66								
1122+00	642.52	42.66	4.85	644.88	31.22	647.19	647.31	647.51	647.75	647.51	647.03	26.00	646.95	644.70	40.04	6.24	638.98	75.68	638.98	79.68	3.00	643.30	92.64	4.45	-4.32	3.65	12.96	
1122+50	642.37	42.61	4.73	644.83	30.93	647.14	647.26	647.46	647.70	647.46	646.98	26.00	646.90	644.65	40.02	6.23	638.76	76.70	638.76	80.70								
1123+00	642.21	42.55	4.63	644.79	30.65	647.09	647.21	647.41	647.65	647.41	646.93	26.00	646.85	644.61	39.56	6.05	638.54	76.28	638.54	80.28	3.00	643.15	94.11	4.50	-4.61	3.70	13.83	
1123+50	642.09	42.50	4.54	644.74	30.44	647.04	647.16	647.36	647.60	647.36	646.88	26.00	646.80	644.57	39.13	5.88	638.32	75.85	638.32	79.85								
1124+00	642.03	42.45	4.52	644.69	30.39	646.99	647.11	647.31	647.55	647.31	646.83	26.00	646.75	644.53	38.71	5.72	638.10	75.43	638.10	79.43	3.00	642.90	93.82	4.65	-4.80	3.85	14.39	

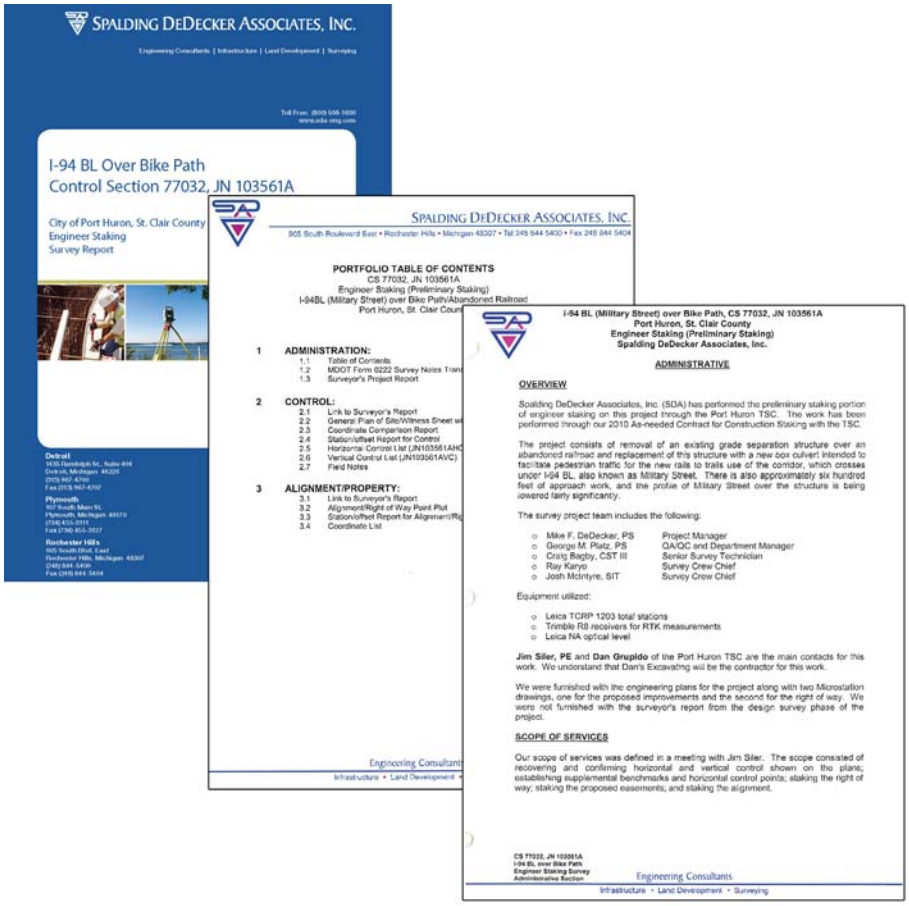
A key component that arises on many current projects is the construction of **ADA ramps**. We know from first-hand experience the level of detail that is required to design and properly install these ramps in order to meet the stringent requirements for grade and size. We are experts in staking these ramps, and our field and office staff are well-versed in the ADA requirements. Our staff participates in regular review of these frequently changing guidelines.

Spalding DeDecker Associates, Inc.

Transportation and MDOT Surveying

Documentation

One of the services that differentiates us from other consultants is the development of a **report** to accompany the results for a preliminary staking task. For a design survey, the standards of practice clearly define what is required for the deliverable and the format it must be in. The special provision for staking defines what must be done for preliminary staking, but does not contain detail on how to present the results. We take great care in preparing a detailed report that is provided both in a three-ring binder and in a bookmarked-pdf electronic format on a CD or DVD. A typical report includes a table of contents, MDOT Form 0222 (Survey Notes Transmittal), narrative surveyor's report, plan witness sheet with checks noted, a coordinate comparison report, a horizontal control list for added control points, a benchmark list for added benchmarks, copy of field notes and computations, a point plot for alignment and right of way points, a station/offset report for points, and a coordinate list for all points.



We have the capacity and experience with our field crews and office support staff to tackle the most challenging, fast-paced, and complex projects.

Let us help you on your next challenging project.

We are ready to hit the ground running!

Transportation and MDOT Surveying

Experience

Following is a partial list of projects where we have performed surveying for the Michigan Department of Transportation (MDOT):

Design, Structure, Hydrographic, Photogrammetric, and Right of Way Survey:

M-53 from Helen Street to Red Run Drain Cities of Warren and Centerline, Macomb County, MI, CS 50011 – JN 111363
Road design survey for approximately three miles of M-53 (Van Dyke Avenue) for in-house design including mill, infill, HMA overlay, drainage improvements, and ADA-compliant ramps.

As-Needed Survey Services for Photogrammetric, Mobile LiDAR, and Terrestrial LiDAR Surveys – Statewide

As-Needed Survey Services – Statewide
West Grand Blvd over I-94, Detroit, Wayne County, MI, CS 82023 – JN 79784D
SDA performed Structure and Road Design Survey for ramp removal and bridge replacement through the 2011 Statewide contract.
US-24 (Telegraph Road) at Vanguard Drive, Waterford Township and the City of Pontiac, Oakland County, MI, CS 84917 – JN 105565C
SDA performed a Road Design Survey for signal design and ADA ramp design through the 2010 Statewide contract.
I-69 BL ADA Ramp Survey, Port Huron, St. Clair County, MI, CS 77023 – JN110774C
SDA performed design survey for ADA ramp design for 16 intersections through the 2010 Statewide contract.
M-142 over Nettle Run, 2.3 miles east of Elkton, Oliver Township, Huron County, MI, C04 of CS 32021 – JN 90241D
SDA performed Hydraulic and Structure Surveys for complete replacement of structure and a Road Design Survey for approximately 1,200 feet of roadway. The work was performed through 2009 Statewide contract.

As-Needed Engineering Design – Port Huron TSC
M-29 from Nook Road to Greenwood, Algonac, St. Clair County, MI, JN 102719
SDA performed design survey for use in ADA ramp design.
M-25 from Hancock Street to the junction with M-136/M-25, Port Huron, St. Clair County, MI, JN 102718
SDA performed design survey for use in ADA ramp design.
M-25, St. Clair County, MI, JN 105848A
SDA staked right-of-way for the intersections of M-25 with Carrigan, Harris, and Jeddo Roads for the purpose of re-locating utilities and poles.
M-25, St. Clair County, MI, JN 106026A
SDA staked right-of-way for the intersections of M-25 with Metcalf Road for the purpose of re-locating utilities and poles.

As-Needed Survey Services – Taylor TSC
Old M-14 (Ann Arbor Road), Plymouth, Wayne County, MI, CS 82101 – JN 84055C
SDA performed design survey for ADA ramp design for the Taylor TSC. Survey work was performed through 2009 contract for as-needed design surveys through the Taylor TSC. SDA worked closely with Lansing survey to tailor survey standards to specific scope of work.

2010 As-Needed Construction Staking Services – Bay City TSC
Safe Routes to Schools, Saginaw Schools, CS73101 - JN 111443A
SDA performed design survey mapping to be used for the design of ADA-compliant ramps along the route to Stone, Kempton, and Jerome Elementary Schools in Saginaw.

Transportation and MDOT Surveying

Experience

US-12 from M-60 to Edwardsburg, Milton and Ontwa Townships, Cass County, MI, CS 14041 – JN 90361C
SDA performed road design survey and design for approximately seven miles of two-lane rural highway. Included in the project were establishing the legal alignment centerline, setting points to monument the deflections and curves in the field, and recording these points as property controlling corners on Act 74 of 1970 land corner recordation certificates, along with preparing and recording a survey for the alignment in compliance with Act 132 of 1970 for recorded surveys.

I-94BL, Ravenswood to CSX, Marysville, St. Clair County, MI, CS 77032 – JN 104088C
SDA performed road design survey and design for 0.7 miles of boulevard (1.4 miles of roadway) including road reconstruction and replacement of storm sewer.

M-59 Rehabilitation, from Wide Track to Opdyke Rd, Pontiac, Oakland County, MI, CS 63043 – JN 80915C
SDA was retained by MDOT to provide complete design for the rehabilitation of M-59 from Wide Track to Opdyke Rd, located in the city of Pontiac. The overall project length was approximately two miles of concrete pavement, comprised of 0.75 miles of two separate one-way four-lane urban arterial roadways and 1.25 miles of four-lane urban freeway. The project also included rehabilitation of interchange ramps at M.L. King Blvd and Opdyke Rd.

SDA was retained by MDOT to provide complete design for the rehabilitation of M-3 (Gratiot Ave) from Sunnyview to Sandpiper Streets located in Mt. Clemens and Clinton Township. The project included a 3.94-mile-long, four-lane-wide, southbound section and a 3.23-mile-long, three- to four-lane-wide northbound section. The project included performing various pick-up survey tasks and performing hydraulic and structure surveys for both the north-bound and south-bound structures over the Clinton River.

I-275 NB (I-96 WB) Lane Extension, 5 Mile Rd to 6 Mile Rd, Livonia, Wayne County, MI, CS 82125 – JN 87946A
SDA was retained by MDOT to provide design of a safety project involving an approximately one-mile-long lane extension of I-275 NB (I-96 WB) from 5 Mile Rd to just north of 6 Mile Rd in the City of Livonia for 2009 construction. SDA performed design survey on the project to support the in-house engineering design.

Local Street Realignment Under the Blue Water Bridge, Port Huron, St. Clair County, MI, CS 77111 – JN 103238A/106056A
SDA was responsible for the complete design, realignment, and truncation of six city streets under and around the Blue Water Bridge in Port Huron, in conjunction with a bridge security upgrade project. SDA performed full design and right of way survey on the project, along with preparing numerous exhibits required for vacated portions of several platted streets under the bridge and creating new right of way for realigned roadway.

I-94 Concrete Overlay, Kimball and Port Huron Townships, St. Clair County, MI, CS 77111 – JN 72406A
SDA performed a Hydraulic Survey for county drains for the design of cross-culvert upgrades.

M-53 (Van Dyke Ave) & 7 Mile Rd Safety Improvements – Detroit, MI, CS 82151 – JN 80379A
SDA performed full design survey for the purpose of in-house design of intersection safety improvements, including adding turn lanes and ADA-compliant ramps.

M-5 (Grand River Ave) & Lahser Rd Intersection Safety Improvements – Detroit, MI, CS 82121 – JN 80378/80378A
Road Design and Survey
SDA performed full design survey for the purpose of in-house design of intersection safety improvements and HMA overlay, including adding turn lanes and ADA-compliant ramps.

Transportation and MDOT Surveying

Experience

Contractor Staking, Engineer Staking, and Full Staking:

2011-2013 As-Needed Construction Staking (Engineer and Contractor Staking) Services for the Blue Water Bridge Gateway Reconstruction of the I-94/I-69 Interchange– Port Huron TSC

2010 As-Needed Construction Staking (Engineer and Contractor Staking) Services – Bay City TSC

B01 of 73131, JN 80125A, M-83 over the Dead Creek, Frankenmuth, Saginaw County, MI

SDA performed complete staking on behalf of MDOT for this complete structure replacement constructed by Davis Contracting.

B02 of 79032, JN 85287A, M-15 over the Sheboygan Drain, Tuscola County, MI

SDA performed complete staking on behalf of MDOT for this complete structure replacement constructed by Davis Contracting.

2010 As-Needed Construction Staking (Engineer and Contractor Staking) Services – Port Huron TSC

I-94 from north of St. Clair Highway to Allington Road, St. Clair County, CS 77111, JN 80911A

Complete staking on behalf of MDOT for 3.7 miles of boulevard freeway on this fast-track lane rental project constructed by Dan's Excavating.

B01-3 (EB) and B01-4 (WB) I-94 over the Belle River, St. Clair County, CS 77111, JN 85164A

Complete staking for these two structures as part of the I-94 project. Each bridge was constructed on a fast-track schedule, with work being performed on a 24-hour basis by Dan's Excavating to meet the aggressive schedule.

New Park and Ride, St. Clair County, CS 77111, JN 88250A

Staking for the new park and ride located next to the MDOT field office along I-94BL/Gratiot at the Marysville exit.

I-94BL over Railroad, Port Huron, St. Clair County, CS 77032, JN 103561A

Preliminary staking (engineer staking) of control, right of way, and alignment and provided a hard-copy report along with an electronic report.**M-19, South of Yale, St. Clair County, CS 77012, JN 55661A**

Miscellaneous staking of storm sewer and curb to allow MDOT to address small issues and close out the project.

2008 As-Needed Construction Staking (Engineer and Contractor Staking) Services – Port Huron TSC

M-136/M-19, South of Yale, St. Clair County, JN 55661A

Preliminary staking/engineer staking through the as-needed contract with the Port Huron TSC.

I-94 from Allington Road to Gratiot Ave., St. Clair County, CS 77111 – JN 76906A

Preliminary staking/engineer staking through the as-needed contract with the Port Huron TSC.

2009 As-Needed Construction Staking (Engineer and Contractor Staking) Services – Taylor TSC

M-39 (Southfield Road) Engineer/Preliminary Staking, Allen Park and Lincoln Park, Wayne County, CS 82192 – JN 76897A

Preliminary staking/engineer staking through the as-needed contract with the Taylor TSC.

Hubbard Road over M-39 (Southfield Road) Engineer/Preliminary Staking, Dearborn, Wayne County, CS 82192 – JN 105074A

Structure clearance measurements and completed Form 1190 through the as-needed contract with the Taylor TSC.

2009 As-Needed Engineering Design – Port Huron TSC

M-25, St. Clair County, JN 105848A

Staked right of way for the intersections of M-25 with Carrigan, Harris, and Jeddo Roads for the purpose of re-locating utilities and poles.

M-25, St. Clair County, JN 106026A

Staked right of way for the intersection of M-25 with Metcalf Road for the purpose of re-locating utilities and poles.

Washtenaw County Road Commission

SDA worked directly for the WCRC on the following projects:

Carpenter Road Reconstruction Project (2007) - Project consisted of reconstructing more than two miles of Carpenter Road from two lanes to five lanes from Textile Road to I-94 and milling and overlay from I-94 to Ellsworth Road.

Dixboro Road and Dixboro Road Bridge Construction (2006) – Project consisted of construction of a new bridge structure over the Huron River and realigned road section of Dixboro Road.

Spalding DeDecker Associates, Inc.

Services

Survey & Mapping

Speed and technical accuracy are the cornerstones of Spalding DeDecker Associates, Inc.'s (SDA) survey and mapping services. Our licensed survey professionals can oversee more than 25 crews daily to accommodate any project's complex and stringent requirements. Most of our field and office staff are Certified Survey Technicians. By electronically converting site data, we quickly and accurately collect the necessary data. Using state-of-the-art equipment, including a Leica 1203 TCRP robotic total station, a Trimble R8 GPS receiver, or a digital level, our surveyors provide construction layout or collect data quickly and efficiently.

Services

- Aerial Control Surveys
- ALTA / ACSM Land Title Surveys
- Anchor Bolt Surveys
- Aviation / Airfields
- Boundary Surveys
- Column Line Layout
- Condominium Exhibit B Documents
- Construction Staking
- Crane Rail Surveys
- Easement Documentation
- Elevation Certificates / LOMA's
- Floodplain Surveys
- GPS Rental & Training
- Industrial Surveying
- Laser Scanning
- Mortgage Surveys
- Oil & Gas Pipeline Surveys
- Parcel Splits
- Remonumentation Programs
- Right-of-Way Surveys
- Site Feasibility Studies
- Stockpile Quantities
- Subdivision Platting
- Subsidence Monitoring
- Topographical Surveys
- Tree Surveys
- Tunnel Surveying
- Utility Surveys
- Wetland Delineation Surveys

Spalding DeDecker Associates, Inc.

Established in 1954, Spalding DeDecker Associates, Inc. (SDA) is an employee-owned consulting engineering firm specializing in infrastructure, land development, and surveying. With offices in Detroit, Rochester Hills, and San Antonio, and multiple field offices, SDA offers a diverse core of engineering services for municipal, land development, transportation, and water / wastewater projects. The firm also offers complete construction engineering, landscape architectural, pavement management, and land surveying & mapping services.

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www.linkedin.com/company/spalding-dedecker-associates-inc.

directors / officers

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Chairman George M. Platz, PS
Catherine M. DeDecker, PS
Michael F. H. DeDecker, PS
Thomas J. Dohr, PE
Cheryl L. Gregory, PE
Thomas J. Sovel, PE

professional staff (licensed in multiple states)

- Professional Engineers
- Professional Surveyors
- Registered Landscape Architects

technical staff

- ACSM Certified Survey Technicians
- Certified Floodplain Managers
- Certified Public Infrastructure Inspector
- Confined Space Entry & Attendants
- Construction Documents Technologist
- MicroStation & AutoCAD Technicians
- O&M Technicians
- OSHA HAZWOPER 40 Hour Training
- Red Cross - CPR, AED, & First Aid
- Safe2Work Safety Training

MDOT Technician Training:
- Concrete Inspection
- Bituminous Inspection
- Aggregate Technician
- Density Technology
- Bridge Inspection
- Computerized Office Technician
- FieldManager / FieldBook

MDEQ:
- Stormwater Management Operator - Construction Site & Industrial Site
- Soil Erosion and Sedimentation Control
- Drinking Water S-3
- Waste Water S-1

100% Employee-Owned | ISO 9001-2008 Based for Quality | MUST Certified for Drug Compliance