



**AGENDA
PUBLIC WORKS/SAFETY COMMITTEE
TUESDAY, FEBRUARY 21, 2023
5:30 PM
DESTIN CITY HALL BOARDROOM**

- 1. CALL TO ORDER**
- 2. ROLL CALL/PLEDGE OF ALLEGIANCE**
- 3. APPROVAL OF MINUTES**
 - A) Minutes of January 10, 2023**
- 4. NEW BUSINESS**
 - A) OCSO Update, preparation for Tourist Season**
 - B) Safety Study for Legion Drive & Legion/Main/Airport Signal, cost proposal, recommendation to City Council**
 - C) Presentation by Citizen, Glow-in-the-Dark paint**
 - D) Additional Lighted Pedestrian Crossing Fixtures, location, recommendation to Council**
 - E) Use of ADA Detectable Warning Mats, Surface Applied and Anchored**
- 5. CONTINUING BUSINESS**
 - A) Stormwater & Floodplain Management Issues, comments from the Public**
 - B) Public Works/Emergency Management Departmental Update**
- 6. DISCUSSION**
 - A) Jim Wood - Chair**
 - B) John Green - Vice Chair**
 - C) Marcie Bell**
 - D) Sam Perman**
 - E) Curtis Smith**
 - F) John Stephens**
 - G) Tom Weidenhamer**

7. PUBLIC COMMENTS (Comments from the public on any matters considered at the meeting, or on any matters not on the agenda)

Any person requiring a special accommodation at this hearing because of a disability or physical impairment should contact the City Clerk at (850) 837-4242 at least 48 hours prior to the hearing. If a person decides to appeal any decision made with respect to any matter considered at such meeting, such person will need a record of the proceeding and for such purpose may need to ensure that a verbatim record of the proceeding is made, which record includes the testimony and evidence upon which the appeal is to be based. (Sec. 286.0105, Florida Statutes)

**PUBLIC WORKS/PUBLIC SAFETY COMMITTEE
MEETING MINUTES DESTIN CITY HALL BOARDROOM
TUESDAY, JANUARY 10, 2022 - 5:30 PM**

1. CALL TO ORDER & PLEDGE OF ALLEGANCE:

Public Works Director Michael Burgess called the Public Works/Public Safety Committee to order on Tuesday, January 10, 2022, at 5:30 p.m.

2. Nominations for Chairman & Vice Chairman

➤ **Chairman**

Motion by Committee member Weidenhamer, seconded by Committee member Green for Jim Wood as Chairman. Motion passed 4-0, Committee member Bell was not present for the vote.

➤ **Vice Chairman**

Motion by Committee member Green to nominate himself as Vice Chairman with Committee member Weidenhamer providing the second. The motion passed 4-0, Committee member Bell was not present for the vote.

3. ROLL CALL:

<u>Members Present</u>	<u>Members Absent</u>	<u>Staff</u>
James T. Wood, Jr.	John Stephens	Kim Montgomery Deputy City Clerk
John Green		Michael Burgess PW Director
Tom Weidenhamer		JT Hart PW Deputy Director
Sam Perman		
Curtis Smith		
Marcie Bell in at 5:40		

4. APPROVAL OF MINUTES: October 11, 2022

Motion to approve the minutes of the October 11, 2022, meeting, as written was made by Vice Chairman Green with Committee member Perman providing the second. The motion passed 4-0.

5. CONTINUING BUSINESS:

➤ **Stormwater/Floodplain**

Chairman Wood opened invited members of the public to speak on any issues they may have, with no one coming forward, he closed the public on the topic.

- **Stormwater Public Comment - None**
- **Public Services Report**
 - **Ongoing vacancy in the Public Services Dept.**
 - Maintenance Technician (vacant for over two years, advertised)
 - Facilities Maintenance Technician (recent retirement, advertised)
 - Stormwater Maintenance Technician (new position, advertised)
 - **Operational Update**
 - Nov 7 – Continuing Services Contract Renewals (approved)
 - Nov 7 – Purchase of Mini-Excavator & Utility Tractor (approved)
 - Nov 7 – Installation of 5 Speed Humps (Stahlman, Beach, & Sibert),
 - Nov 28 – Continuing Services Contract Renewals (approved)
 - Nov 28 – Discussion of E-Bikes on Sidewalks (with Comm. Dev. at present, will come before this Committee before going to Council)
 - Dec 12 – Demolition of Three Beach Structures (Tarpon Street Access)
 - Dec 12 – Median Maintenance Contract Renewal
 - Jan 3 – Discussion of Surplus Property Disposal (trade-in option), first reading
 - Jan 17 – Declaration of Surplus Property
 - Jan 17 – Purchase of 2 F150s and 1 SUV
 - Jan 17 – Surplus Property Disposal Ordinance, 2nd reading
 - **Project Updates**
 - US98 Median Improvements, underway – final punch list items
 - US98 Median Improvements (SR293 to County Line), imminent
 - Variable Messaging Boards – Should be delivered sometime in March
 - Four Pedestrian Crossing Systems, ordered, delivery in late 2022/early 2023
 - Six School Crossing Systems, installed and complete
 - Main Street/Indian Trail Striping – project complete
 - Installation of 5 speed humps, PO issued
 - Demolition of three beach structures, scheduled for Feb 3rd
 - New Dump Truck – early 2023
 - **Emergency Management Update**
 - Hurricane Season – over for 2022
 - Updates to Disaster Preparedness Plan to begin in March of 2023

6. **NEW BUSINESS:**

- **Waste Management – Doug Rainer**

Mr. Doug Rainer of Waste Management spoke to the members regarding the recyclable program and how they are in the process of building a new facility and when it's finished they won't have to take the recyclables to another station to be separated. He introduced their new District Manager, Tony Sidebottom new District Manager of the South Atlantic Market. Mr. Sidebottom provided the members with a brief overview of his duties and responsibilities for the position.

Mr. Rainer explained that in partnership with the city's new PIO, information will be shared with the citizens for any impending emergencies, such as storms. He also informed the members that new recyclable carts will be replacing the older ones.

Building a Material Recovery Center (MRF) in Fort Walton Beach which is a \$30M investment to the region, specifically the panhandle to receive recycling. It will be automated to receive, bail and sale or push out recyclables.

Committee member Bell spoke of how majority of the short term rentals are putting garbage into their recycle bins. According to Mr. Rainer, he is willing to work with staff to help educate the short term rental public. He also spoke of how the smart trucks have cameras and everything is recorded, and the drivers see everything that is dumped from the cans.

According to Mr. Rainer,

7. OLD BUSINESS:

➤ Member Comments

- **Committee member Smith –**
- **Committee member Bell –**
- **Committee member Green –**
- **Chairman Wood –**

➤ Public Comment – Derick Gee

8. ADJOURNMENT:

Having no further business at this time, the meeting adjourned at 6:30 p.m.

Adopted and approved this _____ day of _____ 2022.

James T. Wood, Jr. Chairman

Kim Montgomery, Deputy City Clerk

February 14, 2023

Mr. Michael Burgess
Director of Public Works & Emergency Management
City of Destin
3949 Commons Drive
Destin, FL 32541

Re: Legion Drive Traffic Safety and Operational Evaluation - Scope of Services and Fee Proposal

Dear Mr. Burgess,

As requested, Volkert, Inc. is pleased to provide the following scope and fee proposal for the Legion Drive Safety Study. Volkert understands that the City of Destin would like for us to perform a Safety evaluation of Legion Drive between Beach Drive and Main Street in accordance with the included scope of work.

Scope of Work- See included Exhibit A- Legion Drive Safety Study Scope of Work

Fees: See included Manhour Breakdown

Base Services: \$53,067.00

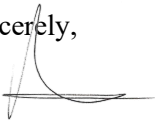
Traffic/Speed Counts- \$7,000.00

Total with Optional Services- \$60,067.00

Schedule:

An acceptable schedule to both parties will be established after project scope and fee proposal accepted and NTP provided.

Sincerely,



Mike Warnke, P.E.
Vice President/Southeast Region Chief Engineer
Volkert, Inc.

Accepted- Michael Burgess, Director of Public Works & Emergency Management- City of Destin.

Exhibit A

City of Destin

Legion Drive Traffic Safety and Operational Evaluation Scope of Work

PROJECT BACKGROUND AND DESCRIPTION

The City of Destin (CITY) would like to conduct a corridor evaluation of Legion Road from Beach Drive to Main Street. Legion Drive is a two-lane corridor with a two-way left turn lane primarily east-west corridor through the City of Destin. The City would like an assessment and evaluation of this corridor for the purposes of identifying potential improvements to improve traffic flow and safety.

Key elements to be considered in this corridor evaluation/study include:

- Existing Data Collection – traffic counts and traffic signal timing data.
- Spot Speed Study along Legion Drive.
- Intersection Analysis – Main Street and Legion Drive
- Corridor pedestrian element review.
- Identify at least 2 build alternatives to address possible improvements based on existing needs/deficiencies.
 - Conceptual Plan over aerial imagery of proposed build alternatives.
 - Preliminary Cost Analysis

The primary geographic scope of the study area is limited to the Legion Drive from Beach Drive to Main Street.

SCOPE OF WORK

TASK 1 – Project Kick-Off and Ongoing Project Management

- A. This task includes time for general project management activities, project coordination, and client communication.

TASK 2 – Data Collection

- A. Assemble available background traffic count data from FDOT and Okaloosa County.
- B. Assemble available crash/incident data from FDOT, Florida Highway Patrol and the Okaloosa County Sheriff's Department.

TASK 3 – Spot Speed Study

- A. Spot Speed Study Evaluation with proposed traffic calming measures.
 - Data Collection of speeds along a minimum of two locations in each direction on the corridor.
 - Documentation of results of data collection and speed analysis.
 - Conceptual plans over aerial imagery of proposed traffic calming measures. A minimum of two proposed concepts in addition to existing conditions to be developed.
 - Preliminary Cost Analysis of proposed improvements.
 - Conclusions and recommendations to be summarized in a report.

TASK 4 – Intersection Analysis – Main Street and Legion Drive

- A. Traffic Operational Analysis at the signalized intersection of Main Street and Legion Drive.
 - Review of Existing timing information. To be obtained from Okaloosa County.
 - The traffic analysis will be performed for AM and PM peak hour traffic for current Year 2023 data collected.
 - Optimized Lane Configuration to be provided based on results of Analysis to optimize operational efficiency as well as safety.
 - Conclusions to be summarized in Report.

TASK 5 – Pedestrian Element

- A. Evaluation of Pedestrian Elements throughout the project corridor.
 - Review all existing crosswalk locations.
 - Determination of conflict points along the sidewalk within project limits.

TASK 6 – Safety / Traffic Study Report

- A. Report document all individually analyzed items to include.
 - Spot Speed Study
 - Intersection Analysis – Main Street and Legion Drive
 - Pedestrian Element Review
- B. Draft and Final Deliverable following review and comments from City.

**Manhour Estimate for Professional Services
City of Destin- Legion Drive Safety Evaluation**

Task 1- Project Kick Off / Project Management	Principal	Supervisor	Project Manager	Staff 2 Prof.	Staff 1 Prof.	Senior Designer	Designer/C AD Tech
1 Kickoff Meeting and Project Mangement	0	8	24	8	0	0	0
Total	0	8	24	8	0	0	0

Task 2- Data Collection	Principal	Supervisor	Project Manager	Staff 2 Prof.	Staff 1 Prof.	Senior Designer	Designer/C AD Tech
1 Compile and review Background Traffic Count Data	0	0	4	4	0	2	2
2 Compile and review existing Crash / Incident Data	0	0	4	10	4	2	4
3							
4							
5							
Total	0	0	8	14	4	4	6

Task 3- Spot Speed Study	Principal	Supervisor	Project Manager	Staff 2 Prof.	Staff 1 Prof.	Senior Designer	Designer/C AD Tech
1 Compile and Review collected speed data along corridor	0	0	2	4	4	2	2
2 Document results of data collection to include observed speeds	0	0	2	2	0	0	0
3 Concept Development	0	2	0	20	12	12	4
4 Preliminary Cost Analysis	0	1	0	6	4	0	1
5 Conclusions and Recommendations	0	2	2	12	4	0	0
Total	0	5	6	44	24	14	7

Task 4 - Intersection Analysis - Main St and Legion Dr	Principal	Supervisor	Project Manager	Staff 2 Prof.	Staff 1 Prof.	Senior Designer	Designer/C AD Tech
1 Development of Synchro Model	0	0	4	8	4	0	4
2 AM and PM Peak Hour Analysis	0	0	0	4	2	0	0
3 Conclusions and Recommendations	0	0	4	8	0	0	2
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
Total	0	0	8	20	6	0	6

Task 5 - Pedestrian Element Review	Principal	Supervisor	Project Manager	Staff 2 Prof.	Staff 1 Prof.	Senior Designer	Designer/C AD Tech
1 Review of all existing crosswalk locations	0	0	2	4	2	0	16
2 Determination of existing conflicts points.	0	0	2	4	2	0	16
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
Total	0	0	4	8	4	0	32

Task 6 - Safety / Traffic Study Report	Principal	Supervisor	Project Manager	Staff 2 Prof.	Staff 1 Prof.	Senior Designer	Designer/C AD Tech
1 Report documenting all findings - Draft	0	2	4	12	8	0	4
2 Comments Coordination with City	0	2	6	2	0	0	0
3 Final Report	0	2	4	4	2	0	2
4							
5							
Total	0	6	14	18	10	0	6

Cost Estimate for Basic Services
City of Destin- Legion Drive Safety Evaluation

Task 1- Project Kick Off / Project Management	Rate	Manhour	Cost
Principal	\$271.00	0	\$0.00
Supervisor	\$251.00	8	\$2,008.00
Project Manager	\$214.00	24	\$5,136.00
Staff 2 Professional	\$177.00	8	\$1,416.00
Staff 1 Professional	\$113.00	0	\$0.00
Senior Designer	\$146.00	0	\$0.00
CAD Tech	\$118.00	0	\$0.00
Total Direct Labor			\$8,560.00
Other Services			
			\$0.00
Total Task 1 Estimate			\$8,560.00

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Task 2- Data Collection	Rate	Manhour	Cost
Principal	\$271.00	0	\$0.00
Supervisor	\$251.00	0	\$0.00
Project Manager	\$214.00	8	\$1,712.00
Staff 2 Professional	\$177.00	14	\$2,478.00
Staff 1 Professional	\$113.00	4	\$452.00
Senior Designer	\$146.00	4	\$584.00
CAD Tech	\$118.00	6	\$708.00
Total Direct Labor			\$5,934.00
Other Services			
Total Task 2 Estimate			\$5,934.00

LS

Task 3- Spot Speed Study	Rate	Manhour	Cost
Principal	\$271.00	0	\$0.00
Supervisor	\$251.00	5	\$1,255.00
Project Manager	\$214.00	6	\$1,284.00
Staff 2 Professional	\$177.00	44	\$7,788.00
Staff 1 Professional	\$113.00	24	\$2,712.00
Senior Designer	\$146.00	14	\$2,044.00
CAD Tech	\$118.00	7	\$826.00
Total Direct Labor			\$15,909.00
Other Services			
Total Task 3 Estimate			\$15,909.00

LS

Task 4 - Intersection Analysis - Main St and Legion Dr	Rate	Manhour	Cost
Principal	\$271.00	0	\$0.00
Supervisor	\$251.00	0	\$0.00
Project Manager	\$214.00	8	\$1,712.00
Staff 2 Professional	\$177.00	20	\$3,540.00
Staff 1 Professional	\$113.00	6	\$678.00
Senior Designer	\$146.00	0	\$0.00
CAD Tech	\$118.00	6	\$708.00
Total Direct Labor			\$6,638.00
Other Services			
CDCS			
Total Task 4 Estimate			\$6,638.00

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Task 5 - Pedestrian Element Review	Rate	Manhour	Cost
Principal	\$271.00	0	\$0.00
Supervisor	\$251.00	0	\$0.00
Project Manager	\$214.00	4	\$856.00
Staff 2 Professional	\$177.00	8	\$1,416.00
Staff 1 Professional	\$113.00	4	\$452.00
Senior Designer	\$146.00	0	\$0.00
CAD Tech	\$118.00	32	\$3,776.00
Total Direct Labor			\$6,500.00
Other Services			
Total Task 5 Estimate			\$6,500.00

LS

Task 6 - Safety / Traffic Study Report	Rate	Manhour	Cost
Principal	\$271.00	0	\$0.00
Supervisor	\$251.00	6	\$1,506.00
Project Manager	\$214.00	14	\$2,996.00
Staff 2 Professional	\$177.00	18	\$3,186.00
Staff 1 Professional	\$113.00	10	\$1,130.00
Senior Designer	\$146.00	0	\$0.00
CAD Tech	\$118.00	6	\$708.00
Total Direct Labor			\$9,526.00
Other Services			
Total Task 6 Estimate			\$9,526.00

LS



Quote
EST-007939

3001 Orange Avenue
Fort Pierce, FL 34947

Bill To

City of Destin

4200 Indian Bayou Trail
Destin, Florida 32541

Estimate Date : 01.24.23

Expiration Date: : 02.23.23

Ship To

3949 Commons Dr.
Destin, Florida 32541

Delivery Preference : None

#	Item & Description	Qty	Rate	Amount
1	RRFB Assembly, Solar Powered, Single Direction SKU : Z 654-2-21 Consists of the following items: 1) [N500029]Controller, 12V, 108045, Hollow, Radio- 1 EA 2) [N142048]Universal Cabinet Mounting Bracket, SOP Cabinets 108766, 108045, 120652, Includes U-Bolt Hardware - 1 EA 3) [NSLR-55-B]65W / 12V Solar Panel Package, 4.5" OD, Top of Pole Mount - 1 EA 4) [N101494]Battery, DEKA Solar 12V, 50Ah, VRLA 8G40-DEKA - 1 EA 5) [N138089]RRFB Assembly, Universal Mount - 1 EA 6) [N101620]Push Button Bulldog Add-On Option Kit Yellow, with LED - 1 EA 7) [DP00004]Pole Package, 13' x 4.5" OD, To Include: Pole, Base, Four J-Bolts and Hardware - 1 EA 8) [ad52713030az0edd]Sign, W11-2, 30 x 30 x 080, FYG DG3, Diamond, DOT Holes, 1.5 in radius - 1 EA 9) [ad28402412az0add]Sign, W16-7PL, 24 x 12 x 080, FYG DG3, Horizontal, DOT Holes, 1.5 in radius - 1 EA 10) [EF00003]FDOT Sign Mounting Kit, 4.5" OD, for 30" Diamond - 1 EA 11) [EF00005]FDOT Sign Mounting Kit, 4.5" OD, for 24 x 12 Horizontal Rectangle - 1 EA 12) [N143402]SafeWalk Illuminator Assembly with Mounting Kit - 1 EA	1.00	4,375.00	4,375.00
2	RRFB Assembly, Solar Powered, Back to Back SKU : Z 654-2-22 Consists of the following items: 1) [N500029]Controller, 12V, 108045, Hollow, Radio- 1 EA 2) [N142048]Universal Cabinet Mounting Bracket, SOP Cabinets 108766, 108045, 120652, Includes U-Bolt Hardware - 1 EA 3) [NSLR-55-B]65W / 12V Solar Panel Package, 4.5" OD, Top of Pole Mount - 1 EA 4) [N101494]Battery, DEKA Solar 12V, 50Ah, VRLA 8G40-DEKA - 1 EA 5) [N138089]RRFB Assembly, Universal Mount - 2 EA 6) [N101620]Push Button Bulldog Add-On Option Kit Yellow, with LED - 1 EA 7) [DP00004]Pole Package, 13' x 4.5" OD, To Include: Pole, Base, Four J-Bolts and Hardware - 1 EA 8) [ad52713030az0edd]Sign, W11-2, 30 x 30 x 080, FYG DG3, Diamond, DOT	1.00 EA	5,000.00	5,000.00

#	Item & Description	Qty	Rate	Amount
	Holes, 1.5 in radius - 2 EA			
	9) [ad28402412az0add]Sign, W16-7PL, 24 x 12 x 080, FYG DG3, Horizontal, DOT Holes, 1.5 in radius - 1 EA			
	10) [ad39152412az0add]Sign, W16-7PR, 24 x 12 x 080, FYG DG3, Horizontal, DOT Holes, 1.5 in radius - 1 EA			
	11) [EF00003]FDOT Sign Mounting Kit, 4.5" OD, for 30" Diamond - 2 EA			
	12) [EF00005]FDOT Sign Mounting Kit, 4.5" OD, for 24 x 12 Horizontal Rectangle - 2 EA			
	13) [N143402]SafeWalk Illuminator Assembly with Mounting Kit - 1 EA			

Sub Total 9,375.00

Total \$9,375.00

Notes

- ** Estimated completion is +/- 6-8 weeks
- ** No bid foundation, installation, and additional items not listed above.
- ** Full freight included.

For questions with orders, please email support@universalsignsfl.com
For additional pricing requests, please email sales@universalsignsfl.com

We are looking forward to your business! If you want to reach us by phone, dial 1-800-432-0331

Terms & Conditions

- FEI: 59-1053866
Universal Signs & Accessories
A Division of McCain Sales of Florida, Inc.
3001 Orange Avenue
Fort Pierce, FL 34947
- ** All shipments are Free on Board Origin
 - ** All COD accounts must be paid in full prior to processing a sales order.
 - ** All credit accounts must be paid in 30 days from date of invoice.
 - ** All returned items will be subject to a restocking fee, which may equal the items' cost
 - ** Past due invoices will accrue interest at 1.5% per month.

Please verify all the information on this estimate is accurate before acceptance. All returned items may be subject to a restocking fee. If the seller is caused to engage in collection efforts in connection with the transaction described herein, the buyer shall compensate the seller for all costs and expenses, including reasonable attorney's fees, incurred by the seller in connection with such collection efforts whether judicial action is instituted. For additional terms and conditions governing this transaction, visit: <https://www.universalsignsfl.com/terms-and-conditions>

ESTIMATE ACCEPTANCE:

Printed Name: _____

Authorized Signature _____

CITY OF DESTIN



AGENDA ITEM

COUNCIL MEETING DATE: February 21, 2023**TYPE OF AGENDA ITEM:** Action Item**AGENDA OUTLINE NUMBER:** 4.E.**TO:** City Council**THRU:** Lance Johnson, City Manager**FROM:** Michael Burgess, Public Services Director**DATE:** 01/12/2023**SUBJECT:** Use of ADA Detectable Warning Mats, Surface Applied and Anchored

I. BACKGROUND: The City is required to place ADA Detectable Warning Devices (mats) on pedestrian pathways that intersect with roadways or non-residential driveways.

II. DISCUSSION: On October 21st of 2019, staff took a miscellaneous concrete continuing services contact to Council for renewal. At that time, verbiage was added to the motion that required the exclusive use of "brick pavers" to provide ADA detectable warning devices. *This was later clarified to include the use of cure-in-place panels that serve the same purpose.* The process of exclusively retrofitting, replacing, or initially installing ADA mats with the cure-in-place product at the approximate 450 locations required would be both time-consuming as well as expensive, as the existing concrete must either be saw-cut or the entire panel removed, then the area formed and repoured. In either scenario and while the concrete is still wet, the ADA panel is pushed down into the concrete where it is allowed to cure. The alternative surface-applied product has been used across Destin by contractors and developers with great results and the individual project completion time, and time required to restore the sidewalk to full use reduced to minutes, versus hours or days. Installation requires the use of commercial adhesives and drilling/setting anchors into the concrete. Staff would appreciate the ability to use this product in addition to the cure-in-place product.

The product requested utilizes a combination of adhesive and concrete anchors to permanently hold the mat in place. See ATT1 and ATT2 for photos and typical product details. ATT3 is a photo and product details for the cast-in-place product.

- A. Link to Strategic Goals / Objectives:**
- I. Financially Sound City providing Service Excellence
 - II. Enhanced Quality of Life and Safety for Families
 - IV. Effective, Efficient, and Aesthetically Pleasing Infrastructure
 - V. Improve mobility and connectivity

also, ADA Compliance

B. Effect on Budget (EOB): Funding for this product will come from the Public Works Road Materials account (0154160-553000).

C. Level of Service (LOS): Improve community walkability as well as complying with ADA requirements.

D. Legislative Sponsor:

III. CONCLUSION: By approving this item, staff will order and begin installing surface applied and anchored ADA Detective Warning Devices at designated locations City-wide.

IV. RECOMMENDED MOTION: I move that the Public Works/Public Safety Committee recommend to City Council to use the proposed product.

Attachments:

1. ATT1: Concrete Surface Applied ADA Warning Pad photo/details
2. ATT2: Surface Applied Truncated Domes Tactile Walking Surface Indicators
3. ATT3: Cast-in-Place 24 in. x 48 in. product photos and detail

Products Based on Your Search



TUFTILE ADA Warning Pad: Concrete, Surface...

Web Price ⓘ
\$103.48 / each



TUFTILE ADA Warning Pad: Concrete, Surface...

Web Price ⓘ
\$103.48 / each



TUFTILE ADA Warning Pad: Concrete, Surface...

Web Price ⓘ
\$151.24 / each

Related Categories



ADA Warning Pads



Traffic Safety



Safety

[Product Categories](#) / [Safety](#) / [Traffic Safety](#) / [ADA Warning Pads](#) / TUFTILE ADA Warning Pad: Concrete...



**TUFTILE ADA Warning Pad:
Concrete, Surface Applied,
Polymer, Yellow, 4 ft Lg, 2 ft
Wd, 2 ft x 4 ft**

Item 21EH59
Mfr. Model TT2448-SA-YEL-1

Size (W x L) **2 ft x 4 ft**

2 ft x 2 ft

2 ft x 3 ft

2 ft x 4 ft

2 ft x 5 ft

Color **Yellow**



Web Price ⓘ
\$199.44 / each

This item requires special shipping,
additional charges may apply.

Qty

1

Add to Cart

☒ **Ship**

☐ **Pickup**

Expected to arrive
Mon. Jan 16.

Ship to 32501 | [Change](#)

Shipping Weight **14.35 lbs**
[Ship Availability Terms](#)

[Add to List](#)

Product Details Catalog Page [1907](#) Catalog Group [H4144](#)

ADA Compliant **Yes**

Brand **TUFTILE**

Color **Yellow**

Includes Installation Hardware **Yes**

Compliance & Restrictions

 **WARNING: Cancer -**
www.P65Warnings.ca.gov

Document  [Chat with an Agent](#)

Installation Type	Surface Applied
Installation Surface	Concrete
Length	4 ft
Width	2 ft
Material	Polymer
Installation Method	Anchors & Sealant
Thickness	13/32 in
Includes	Anchors; Masonry Bit; Sealant; Stainless Steel Tamper-Resistant Fasteners
Weight	10 lb
Manufacturer Part Number	TT2448-SA-YEL-1
Series	TT2448
Series	TT2448
Sub-brand	TufTile(TM)
Surface Design	Truncated Domes
Replaceable	Yes
Standards	ADAAG; CA Title 24; PROWAG
UNSPSC	40141701
Country of Origin	USA (subject to change)

Product Description
ADA-compliant warning pads have raised bumps that are felt through the feet or when using a white cane. Also called truncated domes, they're installed at intersections, crosswalks, and building entrances to alert visually impaired individuals of a right of way and to orient them to the direction of traffic flow.

-  [Tuftile Surface Applied Installation Tutorial](#)
-  [TT SA Polymer CB Sell Sheet](#)
-  [TT SA Spanish Instructions](#)

Alternate Products



TUFTILE ADA Warning Pad:
Concrete, Surface Applied,
Polymer, Red, 4 ft Lg, 2 ft Wd,
2 ft x 4 ft

Item **21EH57**

Web Price 
\$199.44 / each

Qty

1

Add to Cart



TUFTILE ADA Warning Pad:
Concrete, Surface Applied,
Polymer, Red, 4 ft Lg, 2 ft Wd,
2 ft x 4 ft

Item **21EH58**

Web Price 
\$199.44 / each

Qty

1

Add to Cart



The **Ultimate Solution®** in Detectable Warning Systems

1-888-679-4022



ACCESS® TILE is designed, tested and manufactured in the U.S.A

[PRODUCTS](#)

[ADA RESOURCES](#)

[TACTILE GALLERY](#)

[TESTIMONIALS](#)

[FAQ](#)

[CONTACT](#)

Intelligent Design Surface Applied

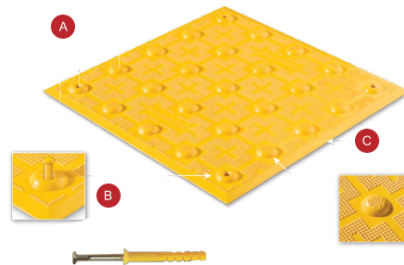
[Specification](#)

[Technical Drawing](#)

[Installation](#)

Fully ADA Compliant Truncated Dome Technology

Thirty years of tactile design, testing, and manufacturing insights have led up to Access® Tile's detectable warning tiles superior product design it is today. Our truncated dome tile is the right choice for projects requiring low-cost ADA compliant tiles. Our Surface Applied tile boasts the easiest, fastest, and most environmentally conscious installation and replacement in the industry. These Surface Applied ADA tiles can be retrofitted into any existing concrete surface, using a combination of surface applied adhesive, anchors, and stainless-steel pins. All of Access® Tile's tactile paving can be easily cut to conform to any shape, without voiding the product warranty.



- A Tile geometry allows for consistent dome spacing between adjoining tiles.
- B High density, diamond grip™ pyramid micro texture designed for exceptional slip resistance in wet and dry conditions.
- C Tamper-proof, countersunk, stainless-steel Axis® fastener set flush with truncated dome surface.



- D Audible detectability technology engineered for sound amplification.
- E Textured surface to allow optimum adhesive bond.
- F Maximized strength load transfer design, bosses, located directly under domes transfer loads directly to substrate.

G Adhesive location identified on the reverse side of tile for easy error-free installation.

Access® Tile's Surface Applied tiles are available as multiple sizes, [Radius Curve tiles](#), and [Wayfinding tiles](#).

For Canadian based projects, contact [Kinesik Engineered Products](#), the Canadian distributor of our ADA compliant tiles.

Applications for Access® Tile's Surface Applied Tiles

All our Surface Applied detectable warning tile products are designed to be ADA compliant. The wayfinding bar tiles help guide the public safely through your space, and the truncated dome installations alert the public when the path's edge is near a hazard. Access® Tile's Surface Applied truncated dome tile is used worldwide for municipal curbs and pedestrian crossings, serving to warn the public when they reach an unsafe edge. The truncated domes installations can be felt comfortably through footwear, meaning our truncated dome technology is especially useful for individuals with a visual impairment. Every detectable warning paver is available many colors, including federal yellow and safety red; color contrast helps people with or without visual impairments to see the warning tiles. We have designed all of our ADA warning tiles with a unique sound reflection technology, helping those with guidance canes navigate the space safely. By tapping their guidance cane, visually impaired persons can audibly hear the difference between a walkway and ADA compliant tiles.

Common applications of Access® Tile's Surface Applied tiles are:

- Multi-modal transit stations
- ADA curb ramps
- Accessible pedestrian crossings
- Parking areas made to be ADA compliant
- Vehicular passageways
- Safe escalator approaches
- ADA standard wheelchair ramps
- Accessible transit platforms
- Tops and bottoms of stair landings

Intelligent Design Features of our Surface Applied Tiles

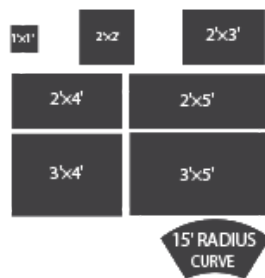
Access® Tile is the industry leader in affordable detectable warning tiles. Every one of our Surface Applied tile products installs in minutes and are easily replaceable. Access® Tile is the choice of developers worldwide, for their quick installation and replacement as well as being one of the most environmentally conscious product in the industry. Multiple detectable warning pads can be anchored together using our tamper-proof stainless-steel fasteners, which maintain a flush interface with the tactile walking surface indicators.

Each tactile walking surface indicator (TWSI) is slip resistant, corrosion resistant, and abrasion resistant. All of our Surface Applied tiles have been tested rigorously, using the **AASHTO HS20-44 wheel load test**. All truncated domes are further tested against wear and tear to ensure the longevity of your detectable warning pad. Each ADA compliant tile is equipped with multiple fasteners to ensure maximum strength and support.

Our detectable warning tiles come in multiple colors and sizes.

Surface applied detectable warning pads can be cut on-site to conform to the most specific project needs. Access® Tile's detectable warning mats are made to exceed all your project needs.

Available Sizes



Available Colors

Ochre Yellow (OCR)

FED 23594

Federal Yellow(YW)

FED 33538 / RAL 1003

Safety Red(SR)

FED 31350

Colonial Red(COL)

FED 20109 / RAL 8012

Brick Red (RD)

FED 22144 / RAL 3016

Ocean Blue(BL)
FED 15187 / RAL 2486

Bright White(WH)
FED 27925

Light Gray(LG)
FED 26280

Dark Gray (DG)
FED 36118 / RAL 2486

Onyx Black (BK)
FED 17038 / RAL 9005

Use our free [radius calculator](#) to determine the number of surface applied tiles needed for your project.

Our Surface Applied detectable warning tiles feature intelligent design and include a variety of benefits, such as:

- Environmentally conscious installation and replacement
- Adhesive location identified on the reverse side of the tile for easy, error-free installation
- Tactile bond and seal is available through all our authorized distributors. The system is designed and tested to be both a structural adhesive and perimeter edge sealant
- Strategically placed pre-formed fastener hole locations enhance installation integrity and provide easy installation
- Interactive sizes – all tiles maintain pattern repeat when mounted side-to-side or top-to-bottom

Installation Information for Access® Tile Surface Applied TWSI

Access® Tile’s Surface Applied ADA tiles are manufactured to be lightweight, fit in any space, extremely easy to handle, and install or replace within minutes. Our Surface Applied tile can be retrofitted into any existing concrete surface, using a combination of surface applied adhesive, anchors, and stainless-steel pins. A complete installation package is available with each order of Access® Tile’s Surface Applied truncated dome tile purchase, including a set of instructions, adhesive, and fasteners.

For quick reference, please see our installation and replacement instructions below:

Installation Instructions:

1. Place the tile on the designated location and trace the perimeter with a thin permanent marker.
2. Set the tile aside and using a 4” diamond cup grinder, scour the concrete within the marked location and in correspondence with the location requiring adhesive as indicated in the backside of the tile.
3. Clear away the dust with a leaf blower then clean the back of the tile and the concrete with a rag soaked in acetone.
4. Apply surface applied adhesive to back of the tile (as indicated on the tile). The first bead should be applied thin, ½” from the perimeter edge and a second thicker bead applied 1” inside of the first.
5. Set the tile true and square to the curb ramp and press down firmly.
6. While stepping down on either side of the preformed hole, drill down 3” into concrete slab using a hammer drill and the recommended ¼” diameter carbide drill bit.
7. While still applying pressure, remove the dust and any adhesive that surfaces and carefully set the supplied color-matched Axium® Fasteners with a plastic-tipped hammer. Repeat steps 6 & 7 while working across the tile from one end until all pre-formed fastener locations are completed.
8. Clean the perimeter of the tile and the immediately surrounding concrete with acetone making sure to remove any adhesive that has escaped from beneath the tile. Apply and smooth sealant around the perimeter of the tile.

[Surface Applied Installation](#) [Download](#)

[Surface Applied Submittal Package](#) [Download](#)

State and Federal Code Compliance

- 2.35” center-to-center, in-line dome spacing meets ADA Federal and State requirements
- Truncated dome size and spacing compliant with ADA Federal and State requirements, 0.9” base, and 0.45” top diameter
- Fully complies with all ADA and OSHA requirements for surface height transitions to eliminate trip hazards
- Consistent dome spacing when tiles are adjoined (side-by-side or end-to-end)

- Wide in-line dome configuration facilitates a smooth rolling transition for strollers, wheelchairs, and walkers
- Integral UV stable homogeneous color throughout truncated dome surface

All Access® Tile products fully comply with the [Americans with Disabilities Act \(ADA\)](#), [Public Right-of-Way \(PROW\)](#), and [California Title 24 Requirements](#). For more information, please see the official [Truncated Domes ADA Requirements](#).

ASTM & UL Tests for Surface Applied TWSI

All our detectable warning pavers undergo rigorous testing including [ASTM tests](#), and [ASTM D tests](#).

- Tensile Strength [ASTM D638](#)
- Flexural Strength [ASTM D790](#)
- Compressive Strength [ASTM D695](#)
- Accelerated Weathering [ASTM G155](#)
- Slip Resistance [ASTM C1028](#)
- Flame Spread Index [ASTM E84](#)
- Accelerated Aging (freeze-thaw) [ASTM D1037](#)
- Linear thermal Expansion [ASTM D696-03](#)
- Tile Bond Strength [ASTM C1583](#)

[Installation & Maintenance](#)

[Specification & Technical](#)

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ACCESS® TILE • 1104 Corporate Way, Unit 105 • Sacramento, CA 95831 • Phone: [1-916-361-6545](#)

AccessTile.com is the official website for Access® Tile in the USA

Kinesik is our Official Canadian Distributor. Visit: [Access® Tile Canada](#)



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Armor-Tile 24 in. x 48 in. - 1.67 in. Dome Spacing - Federal Yellow Cast-In-Place Tile

Mfg#: ADAC2448YW | SKU#: 465C2448YW

Armor-Tile

\$227.99 each

Quantity:

-

1

+

Check estimated delivery enter zip code

Tell us your zip code

 **This item does not meet small parcel ground shipping requirements.**

PRODUCT DETAILS

Armor-TileCast-In-Place is the world leader in tactile walking surface indicators systems. Manufactured of a diamond-hard vitrified polymer composite, Armor-Tile truncated dome and wayfinding bar tiles are the industry leader for durability, weather and wear resistance.

- Easily cut to conform to angled and radius ramps
- Integral embedment flanges are the complete anchoring system
- Easily cut to conform to angled and radius ramps
- Advanced warning strip 3 X 48 in, used to create a color contrast around perimeter

[View more about this product](#) ▾

SPECIFICATIONS

Color	Yellow	Volume Capacity	1728
Color Family	Yellow	Material	Vitrified Polymer Composite
Tensile Strength	Over 19,000		

PRODUCT FEATURES

Public Works Update (Jan and Feb 2022)

Departmental Update

Currently have three vacancies:

- Maintenance Technician (vacant for over two years, advertised)
- Facilities Maintenance Technician (recent retirement, advertised)

Operational Update

Recent & Upcoming Council Agenda Items

- Jan 3 – Discussion of Surplus Property Disposal (trade-in option), first reading
- Jan 17 – Declaration of Surplus Property
- Jan 17 – Purchase of 2 F150s and 1 SUV
- Jan 17 – Surplus Property Disposal Ordinance, 2nd reading
- Feb 15 – Stormwater Maintenance Technician filled
- Feb 16 – Bid opening/Miscellaneous Asphaltic Services Contract (**H&T sole respondent**)
- Mar 6 – Regular City Council Meeting/Miscellaneous Asphaltic Services Contract for approval

Project Update

- US98 Median Improvements, underway – final punchlist items
- US98 Median Improvements (SR293 to County Line), imminent
- Variable Messaging Boards – arrived 17 Feb
- Four Pedestrian Crossing Systems, ordered, delivered early 2023
 - 2 of 3 installed on Airport, 4th destined for Legion
- SH Hayes completing lots of sidewalk repairs
 - Tree roots and vehicles increasing hazards
- Staff working through citywide tree trimming
- Main Street/Indian Trail Striping – **project complete**
- Installation of 5 speed humps, PO issued and **installation imminent**.
- Demolition of three beach structures, started Feb 3 **complete**.
- ZIIC installing new Scenic 98 plant material
- New Dump Truck – mid-late 2023

Emergency Management Update

Operational Update

- Hurricane Season – over for 2022
- Updates to Disaster Preparedness Plan to begin in March of 2023