# CITY OF ANN ARBOR

## ENGINEERING

### STADIUM/WASHTENAW AREA

#### UTILITY IMPROVEMENTS

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**NOTES**

*Know what's below. Call before you dig.*

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**DATE**

2 / 10 / 2022

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**PROJECT LOCATION**

[Map of Project Location]
CONSTRUCTION NOTES:

STADIUM/WASHTENAW AREA UTILITY IMPROVEMENTS

PERMITS REQUIRED TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION.

CONTACT INFORMATION

PUBLIC UTILITIES

OWNER

CONTACT

PRIVATE UTILITIES

OWNER

CONTACT

WINCHELL, BROCKMAN, FRIEZE BENCHMARKS

BM # ELEV DESCRIPTION

1 897.30 PK NAIL IN NORTH SIDE OF POWER POLE NEAR EAST PROPERTY LINE OF HOUSE #2001

2 894.42 PK NAIL IN NORTH SIDE OF POWER POLE SW CORNER OF WINCHELL & HALL

3 884.20 WEST FLANGE BOLT ON HYDRANT SW CORNER OF WINCHELL & CARHART

4 890.97 PK NAIL IN SOUTH SIDE OF POWER POLE NW CORNER OF FRIEZE & BROCKMAN

5 894.95 PK NAIL IN NORTH SIDE OF POWER POLE, ON EAST PROPERTY LINE OF HOUSE #2114

STADIUM SERVICE DRIVE BENCHMARKS

BM # ELEV DESCRIPTION

1 867.20 NORTH EAST CORNER BOLT ON ORNAMENTAL LIGHT POLE, IN FRONT OF KINGS KEYBOARD HOUSE

2 876.89 PK NAIL IN SOUTH SIDE OF POWER POLE, SOUTH OF BLDG #2305 IN FRONT OF FARMERS INSURANCE SUITE

3 879.59 PK NAIL IN SOUTH SIDE OF POWER POLE, SW OF BLDG #2320

4 894.90 EAST FLANGE BOLT ON ORNAMENTAL LIGHT POLE

5 890.85 WEST FLANGE BOLT ON ORNAMENTAL LIGHT POLE IN FRONT OF KINGS KEYBOARD HOUSE

6 875.85 PK NAIL IN SOUTH SIDE OF POWER POLE, ON REAL ESTATE PROPERTY LINE OF HOUSE #1121
Know what's below. Call before you dig.

STANDARD MANHOLE (TYPE I)

SINGLE INLET STRUCTURE SD-S-10

UTILITY TRENCH-TYPE I SD-TD-1 (MODIFIED)

AGGREGATE BASE COURSE

SAND SUB-BASE

TRENCH DETAIL FOR UNDER DRAIN

(UNDER HMA PAVEMENT)
Know what's below. Call before you dig.
PEDESTRIAN DETOUR USING OPPOSITE SIDE OF STREET

GENERAL NOTES

1. WORK ZONES FOR DRIVING CLASSIFICATIONS OR SIDEWALKS, THE CONTRACTOR OR SUBCONTRACTOR SHALL BE REQUIRED TO DETECT TEMPORARY FACILITIES AND MEASURE ACCURATELY IN CONFORMANCE WITH EXISTING PEDESTRIAN FACILITIES.

2. TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN, OTHER DEVICES MAY BE NECESSARY TO CONTROL Vehicular TRAFFIC. PLACards, AS NECESSARY, TO PROVIDE A WARNING PEDESTRIAN ROUTE, AT ALL TIMES. FOR PEDESTRIANS IN NO AVAILABLE DETURE, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

3. PROVIDE VISIBLE, CONTINUOUS TRAFFIC CONFLUENT LONGER THAN THE WIDTH OF THE AREA TO BE CROSSED. CONTOUR AN AREA TO BE CLOSED. MARK THE LOCATION OF THE TEMPORARY SIDEWALKS. PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE AREA.

4. PROVIDE AN ALTERNATE PEDESTRIAN ROUTE (APR) AT ALL TIMES. FOR ROADWAYS WITH NO PEDESTRIAN LANE, PROVIDE TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR). IN THE FOLLOWING ORDER OF PREFERENCE:

   1. PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION AREA. THIS PLAN SHALL DETAIL THE CONSTRUCTION PHASING AND SCHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE TRAFFIC CONTROL DEVICES TO PROVIDE ACCESS TO ADJACENT PROPERTIES, BUILDINGS, RESIDENCES AND COMMERCIAL PROPERTIES AT ALL TIMES. THIS MAY REQUIRE CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE DETECTABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES.

   2. TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) PROVIDED AT LEAST EVERY 200 FEET. THE SURFACE OF THE TPAR SHALL BE SMOOTHER AND CONTINUOUS FOR THE LENGTH OF THE TPAR. THE TPAR SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4 FEET. IF THE TPAR IS LESS THAN 5 FEET IN WIDTH, A 5 FOOT BY 5 FOOT PASSING SPACE SHALL BE PROVIDED AT LEAST 10 FEET IN FRONT OF AND 10 FEET IN BACK OF THE TPAR. WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, THE CONTRACTOR SHALL PROVIDE DETECTABLE TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) PROVIDED AT LEAST EVERY 200 FEET. THE TPAR SHALL NOT LEAD PEDESTRIANS INTO CONFLICTS WITH VEHICLES, EQUIPMENT, OR CONSTRUCTION OPERATIONS.

   3. TEMPORARY PEDESTRIAN CHANNELIZATION DEVICE TO PROVIDE THE APR ON THE SAME SIDE OF THE STREET AS THE DISRUPTED ROUTE. PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION AREA. THIS PLAN SHALL DETAIL THE CONSTRUCTION PHASING AND SCHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE TRAFFIC CONTROL DEVICES TO PROVIDE ACCESS TO ADJACENT PROPERTIES, BUILDINGS, RESIDENCES, ETC. NO PEDESTRIAN PROFILES ARE ALLOWED TO BEGIN UNTIL THIS PLAN IS APPROVED BY THE ENGINEER OR STATED ON THE PLANS, THE CONTRACTOR'S OPERATIONS SHALL NOT OCCUPY SIDEWALKS EXCEPT WHERE REQUIRED TO COMPLETE THE CONSTRUCTION AREA. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN THROUGH MOVEMENTS FROM ONE END OF THE CONSTRUCTION AREA TO THE OTHER, ON AT LEAST ONE SIDE OF THE ROADWAY. PROVIDE AN APPROPRIATE PEDESTRIAN TRAFFIC SIGNAGE SUCH AS SHOWN ON THE PROJECT PLAN.

4. TEMPORARY PEDESTRIAN TRAFFIC CONTROL NOTES

   1. PEDESTRIAN TRAFFIC SIGNALS CONTROLLING CLOSED CROSSWALKS SHALL BE COVERED OR DEACTIVATED BY THE CITY OF ANN ARBOR. THE CONTRACTOR SHALL SCHEDULE AND REPORTING HAZARDS.

   2. THE PEDESTRIAN TRAFFIC SIGNALS CONTROLLING CLOSED CROSSWALKS SHALL BE COVERED OR DEACTIVATED BY THE CITY OF ANN ARBOR. THE CONTRACTOR SHALL SCHEDULE AND REPORTING HAZARDS.


SPECFIC NOTES

1. TEMPORARY COMBS MATCHED WITH DETECTABLE ALUMINUM.

2. TEMPORARY WALKWAYS SPANNING FOR DISRUPTED LINES.

3. APPROPRIATE SIGNAGE SHOWN ON DETAIL SHEETS.

4. THE CONTRACTOR SHALL SCHEDULE AND REPORTING HAZARDS.

5. PEDESTRIAN TRAFFIC SIGNALS CONTROLLING CLOSED CROSSWALKS SHALL BE COVERED OR DEACTIVATED BY THE CITY OF ANN ARBOR. THE CONTRACTOR SHALL SCHEDULE AND REPORTING HAZARDS.

6. PROVIDE AN ALTERNATE PEDESTRIAN ROUTE (APR) AT ALL TIMES. FOR ROADWAYS WITH NO PEDESTRIAN LANE, PROVIDE TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR). IN THE FOLLOWING ORDER OF PREFERENCE:

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7. IF SIDEWALKS ARE CLOSED, A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) SHALL BE PROVIDED ON THE SAME SIDE OF THE ROAD AS THE CLOSED SIDEWALK. THE PRIMARY TEMPORARY PEDESTRIAN DETOUR SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4 FEET. IF THE TPAR IS ADJACENT TO MOVING TRAFFIC, CONSTRUCTION OPERATIONS/EQUIPMENT, OR DROP-OFFS, THEN CRASH WORTHY CHANNELIZING DEVICES SHALL BE USED TO PREVENT UNINTENTIONAL ENCROACHMENTS ON MOVING TRAFFIC. THE PRIMARY TEMPORARY PEDESTRIAN DETOUR. THE REASON FOR THE NON-COMPLIANCE SHALL BE POSTED AND AN ALTERNATE ROUTE SHALL BE POSTED WHEN THE PRIMARY TEMPORARY PEDESTRIAN DETOUR Is NON-COMPLIANT TO TPAR STANDARDS.

8. PEDESTRIAN TEMPORARY TRAFFIC CONTROL NOTES

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   3. PROVIDE TEMPORARY WALKWAYS SPANNING FOR DISRUPTED LINES.

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OTHER SIDE OF STREET DETOUR OR DETOUR WITH TRAILBLAZING SIGNS

(FOR CORNER SIDEWALK CLOSURE WITH OPTIONAL TEMPORARY CROSSWALK)
PROVIDE TEMPORARY WALKWAY SURFACE

6' MINIMUM 5' DESIRABLE

FEET WALKWAY CHANNELIZERS

BYPASS ON ADJACENT AVAILABLE

RIGHT OF WAY

BYPASS TYPE A

NOTE: MAY ONLY BE USED ON ROADWAY WITH POSTED SPEED OF 45 MPH OR LESS

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE REQUIRED TO CONTROL SIDEWALK TRAFFIC. PLEASE CONSULT OR CALL THE CONTRACTOR TO PROVIDE THE ALTERNATE PEDESTRIAN ROUTE (APR) AT ALL TIMES. FOR ROADWAYS NOT AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

COORDINATE THIS WORK WITH THE ENGINEER A MINIMUM OF 72 HOURS (NOT INCLUDING WEEKENDS & HOLIDAYS) PRIOR TO THE BEGINNING OF WORK THAT REQUIRES A SIDEWALK CLOSURE.

THE PEDESTRIAN TRAFFIC SIGNALS CONTROLLING CLOSED CROSSWALKS SHALL BE COVERED OR DEACTIVATED BY THE CITY OF ANN ARBOR. THE CONTRACTOR SHALL SCHEDULE AND REPORTING HAZARDS.

INFORMATION SUCH AS THE DURATION OF THE WALKWAY RESTRICTIONS (BEGINNING AND/OR END DATES) AND A PROJECT CONTACT NUMBER FOR 24 / 7 QUESTIONS OR CONCERNS SHOULD BE PROVIDED IN THE PROJECT PLANS.

GENERAL NOTES

PROVIDE THE APR ON THE SAME SIDE OF THE STREET AS THE DISRUPTED ROUTE

WHERE IT IS NOT FEASIBLE TO PROVIDE A SAME SIDE APR, PROVIDE A DETOUR ON THE OTHER SIDE OF THE STREET.

REASONS FOR THE NON-COMPLIANCE SHALL BE POSTED AND AN ALTERNATE ROUTE SHALL BE POSTED WHEN THE PRIMARY TEMPORARY PEDESTRIAN DETOUR. THE REASON FOR THE NON-COMPLIANCE SHALL BE POSTED AS AN ALTERNATE ROUTE SHOWN ON THE PROJECT PLANS.

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SPECIFIC NOTES

CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

PROTECTIVE EDGING WITH A 2.5" MIN. HEIGHT ABOVE THE RAMP SHALL BE PLACED HORIZONTALLY.

CURB RAMPS ON LANDING PLATFORMS OR A VERTICAL DROP OF 6" OR MORE, A SIDE APRON WITH A PROTECTIVE EDGING SHOULD BE CONSIDERED WHERE CURB RAMPS ON LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

DETECTABLE EDGING ANYTIME A HANDRAIL IS REQUIRED, AND ANYTIME THE PATH CHANGES DIRECTION. THIS INCLUDES A TURN INTO THE RAMP FROM PATH, ORIENTATION CHANGES WHERE THE WALKWAY CHANGES DIRECTION (TURN).

TEMPORARY CURB RAMPS ARE CONSIDERED A DAMAGES TO PUBLIC UTILITY IMPROVEMENTS.

CLEAR SPACE OF 48" x 48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A CONTRASTING COLOR, 2" TO 4" WIDE EDGE MARKING.

WATER FLOW IN THE GUTTER SYSTEM SHALL NOT BE IMPeded.

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2".

LEADING EDGE 2/3" INCH MAXIMUM

CLEAR SPACE 0.5 INCH MAXIMUM

EDGE TREATMENT 0.25 INCH MAXIMUM

DRAINAGE 0.5 INCH MAXIMUM

EDGEP 2.5" MIN. HEIGHT ABOVE RAMP SURFACE

CROSS SLOPE 2% MAX.

TEMPORARY CURB RAMP

PARALLEL TO CURB

SHOWN WITH EDGE TREATMENT

SHOWN WITH PROTECTIVE EDGE

JOINT GAP TREATMENT

EDGE TREATMENT

DRAINAGE

CROSS SLOPE 2% MAX.

EDGEP 2.5" MIN. HEIGHT ABOVE RAMP SURFACE

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EDGE TREATMENT

CROSS SLOPE 2% MAX.
TEMPORARY PEDESTRIAN ACCESS

TEMPORARY WALKWAY SURFACE

2' MAX. CROSS SLOPE

LEADING EDGE

0.5 INCH MAXIMUM

0.25 INCH MAXIMUM

TEMPORARY WALKWAY SURFACE

DETECTABLE EDGE

32" MIN.

2" MAX.

PEDESTRIAN CHANNELIZER USING A BARRIER

(MINIMUM REQUIREMENTS)

PEDESTRIAN CHANNELIZER

MINIMUM REQUIREMENTS

NARROW TEMPORARY PEDESTRIAN ACCESS ROUTE PASSING DETAIL

TYPICAL AUDIBLE MESSAGE DEVICE LOCATION WHEN USED

SIDEWALK BARRICADE

GENERAL NOTES

POLICE OR OTHER EMERGENCY PERSONNEL MAY REQUIRE A MINIMUM OF 6 INCHES OF CLEARANCE AROUND THE WALKWAY CURB AS WELL AS OTHER MASSIVE OBJECTS WHICH MIGHT PREVENT THE PEDESTRIAN FROM MEEKLY ENTERING THE WALKWAY CURB.

ANY PASSING HAZARDS MUST BE LOCATED A MINIMUM OF 27 INCHES ABOVE THE WALKWAY SURFACE.

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POLICE OR OTHER EMERGENCY PERSONNEL MAY REQUIRE A MINIMUM OF 6 INCHES OF CLEARANCE AROUND THE WALKWAY CURB AS WELL AS OTHER MASSIVE OBJECTS WHICH MIGHT PREVENT THE PEDESTRIAN FROM MEEKLY ENTERING THE WALKWAY CURB.

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ST FRANCIS DR
E STADIUM BLVD
WASHTENAW AVE

1" = 40'

Know what's below.
Call before you dig.
Know what's below. Call before you dig.
ST FRANCIS DR
E STADIUM BLVD
WASHTENAW AVE
E STADIUM BLVD
(VAR. WIDTH R.O.W.)

1" = 40'

Know what’s below. Call before you dig.

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

STADIUM/WASHTENAW AREA UTILITY IMPROVEMENTS
E STADIUM BLVD TRAFFIC CONTROL PH II
STA. 18+00 - STA. 36+00

NOTES:
1. FINAL LEVELS OF FINISHED MATERIAL FOR UTILITY INSTALLATION WILL BE AS DIRECTED BY ENGINEER
2. UPLAND PLANT LAYERS AND PROTECTIVE COVERING WITHIN WORK ZONE TO RESIST TOPSOIL MOVING AS DIRECTED BY ENGINEER
3. MAINTAIN PEDESTRIAN ACCESS DURING CONSTRUCTION
4. POST CONCRETE STREET SIGNS AS DIRECTED BY ENGINEER
5. PLACE CONCRETE STREET SIGNS AS DIRECTED BY THE ENGINEER
6. CONTRACTOR SHALL PLACE PORTABLE CONVEYOR MESSAGE SIGNS
VARIOUS IN THE WORK AREA AND ENTRANCE TO THE WORK AREA CONVEYOR MACHINE
RECOMMEND BELT CONVEYOR TO BE PROVIDED BY THE CONTRACTOR
Know what's below.
Call before you dig.

City of Ann Arbor - Public Services - Engineering
City of Ann Arbor
Public Services
301 East Huron Street
P.O. Box 8647
Ann Arbor, MI 48107-8647
734-794-6410
www.a2gov.org

STADIUM/WASHTENAW AREA UTILITY IMPROVEMENTS
E STADIUM BLVD TRAFFIC CONTROL PH II
STA. 36+00 - STA. 53+00

WORK ZONE BEGINS

1. Final depth of pavement removal for utility installation will be as directed by Division.
2. Use plastic signs and protective fencing within work zone to separate utility trenches as directed by Division.
3. Maintain pedestrian access during construction.
4. Other construction signs as needed or as directed by Division.
5. Remove construction pavement barriers as directed by the Division.
6. Contractor shall place temporary removable median, barriers, chocks, etc. at entrance and exit to be provided by the Division.
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STADIUM/WASHTENAW AREA UTILITY IMPROVEMENTS
WATER MAIN ABANDONMENTS

HIGH PRESSURE
Plan:

1" = 20'

Profile:

1" = 2'

Know what’s below. Call before you dig.

STADIUM/WASHTENAW AREA UTILITY IMPROVEMENTS

STADIUM SERVICE DR WATER MAIN PLAN AND PROFILE

STA. 4+00 - STA. 7+75

CAUTION

HAZARDOUS
OR FLAMMABLE
MATERIAL
2400
2361-2363
2381-2387
2366-2422

(VAR. WIDTH R.O.W.)
E STADIUM BLVD
(30' WIDE R.O.W.)
E STADIUM SERVICE DRIVE
(30' WIDE R.O.W.)
PROP WM-2

860
865
870
875

7+75
8+00
9+00
9+75

CAUTION
HAZARDOUS
OR FLAMMABLE
MATERIAL

CAUTION
HAZARDOUS
OR FLAMMABLE
MATERIAL

HIGH
PRESSURE
HYDRANT RE-CONNECTION DETAIL

PLATE/NOTE

PLAN:
1" = 20'
PROFILE: 1" = 2'

Know what's below.
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

STADIUM/WASHTENAW AREA UTILITY IMPROVEMENTS
STADIUM SERVICE DR WATER MAIN PLAN AND PROFILE

21 OF 37
WASHTENAW AVE
E STADIUM SERVICE DRIVE
SERVICE DR N

STADIUM/WASHTENAW AREA UTILITY IMPROVEMENTS
STADIUM SERVICE DR PROPOSED GRADING PLAN
STA. 0+00 - STA. 3+00

CAUTION
HAZARDOUS
OR FLAMMABLE
MATERIAL

HMA

E. STADIUM SERVICE DRIVE
TYPICAL SECTION
PARKING AREA SECTION

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
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734-794-6410
www.a2gov.org

2021011 - 22

OF 37
Know what's below. Call before you dig.

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

STADIUM/WASHTENAW AREA UTILITY IMPROVEMENTS

ADDITIONAL SIGNAGE FOR WATER MAIN TIE-IN AT STREET INTERSECTIONS

NOTES:
1. Fences through equipment boxes for utility installation will be as directed by Engineer.
2. Live wire covers and protective fencing will be as directed by Engineer.
3. Maintain pedestrian access during construction.
4. Other conflicting signs as needed at designated by Engineer.
5. Provide existing pedestrian markers as directed by Engineer.
6. Construction spoil will be stored in a manner of use to be approved by the City of Constructionwill be stored on the property.

FRIEZE AVE
WINCHELL DR
BROCKMAN BLVD
HALL AVE
CARHART AVE
Know what's below. Call before you dig.
Know what's below. Call before you dig.
Plan: 1" = 20'
Profile: 1" = 2'

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CONSTRUCTION KEY

<table>
<thead>
<tr>
<th>KEY</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>HMA</td>
<td>Hot Mix Asphalt</td>
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<tr>
<td>HMA APP</td>
<td>Hot Mix Asphalt Applicator</td>
</tr>
<tr>
<td>HP</td>
<td>Hot Patch</td>
</tr>
<tr>
<td>CG</td>
<td>Cold Crack</td>
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