**CONSTRUCTION NOTES:**

The purpose of this document is to provide detailed information about the Crencents Water Main Replacement Project in City of Ann Arbor. It includes construction notes, soil erosion and sedimentation control notes, permit requirements, contact information, and public utilities.

### Soil Erosion and Sedimentation Control Notes:

- The contractor must control soil erosion and sedimentation as soon as practical.
- All newly exposed soil must be covered with appropriate materials to prevent erosion.
- All exposed earth surfaces must be seeded or covered with appropriate erosion control measures.
- All construction activities must be conducted to minimize soil disturbance.
- All temporary erosion control measures must be removed and the site restored to its original condition before project completion.

### Permits Required to Be Obtained by the Contractor Prior to the Beginning of Construction:

- **City of Ann Arbor Public Services:**
  - Contact: [734-794-6410](tel:734-794-6410)
  - Website: [www.a2gov.org](http://www.a2gov.org)

### Permits Required to Be Obtained by the City of Ann Arbor Prior to the Beginning of Construction:

- **Private Utilities:**
  - Contact: [313-344-7618](tel:313-344-7618)

### Contact Information:

**Public Utilities**
- **Owner:** [City of Ann Arbor Public Services](http://www.a2gov.org)
- **Owner Contact:** [734-794-6410](tel:734-794-6410)

**Private Utilities**
- **Owner:** [313-344-7618](tel:313-344-7618)

### BM & ELEV DESCRIPTION:

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<th>BM</th>
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<tr>
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<td>170.000</td>
<td>SET RR SPIKE IN NELY SIDE OF L.P. @ SW CORNER OF MILLER AND HATCHER</td>
</tr>
<tr>
<td>2</td>
<td>175.200</td>
<td>SET RR SPIKE IN WLY SIDE OF L.P. ON ELY SIDE OF HATCHER BETWEEN HMS 1974 AND 1975</td>
</tr>
<tr>
<td>3</td>
<td>180.000</td>
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<td>4</td>
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<tr>
<td>5</td>
<td>190.000</td>
<td>SET BOAT SPIKE IN NLY SIDE OF L.P. ON SWLY SIDE OF ARGYLE BETWEEN HMS 1921 AND 1925</td>
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</tbody>
</table>

This list continues with similar entries for subsequent BMs and ELEVs, detailing the placement of construction markers along the water main replacement project.

### CREST OF PROJECT MAINTENANCE:

**2 OF 77**
Know what's below. Call before you dig.
GENERAL NOTES

WHEN CLOSING A PEDESTRIAN CROSSWALK, THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR CONSTRUCTION OPERATIONS, OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.

THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES, BUSINESSES, AND RESIDENCES AT ALL TIMES. THIS MAY REQUIRE THE CONTRACTOR TO STORE OR PLACE CONSTRUCTION MATERIALS, EQUIPMENT OR CONSTRUCTION OPERATIONS, OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.


THE CONTRACTOR SHALL PROVIDE temporary pedestrian access route (TPAR) for use only while the pedestrian crosswalk is closed. THE SYMBOL OF ACCESSIBILITY SHOULD BE DISPLAYED WHEN ANY WALKWAY, PEDESTRIAN AREA, PEDESTRIAN CROSSWAY, OR PEDESTRIAN DETOUR USING OPPOSITE SIDE OF STREET HINDERS PEDESTRIAN ACCESS TO THE PROJECT.

The temporary pedestrian access route shall be a smooth, level, and continuous surface through the length of the construction area. The temporary pedestrian access route shall not be less than 5 feet in width. The temporary pedestrian access route shall be placed on the same side of the road as the closed sidewalk, if possible. Signs and barricades shall be used to provide advance notice of the closure and the route of any pedestrian detours. The temporary pedestrian access route shall be posted and an alternate route shall be posted when the primary temporary pedestrian detour is such to comply to temporary pedestrian traffic control plan requirements of the MMUTCD, Part 6.

TEMPORARY PEDESTRIAN ROUTE (TPAR) DETOUR shall be used in the following order of preference:

1. PROVIDE SIMPLE ACCESS FROM THE SIDEWALK TO THE STREET OR HININDER THE STREET.
2. PROVIDE SIMPLE ACCESS FROM THE SIDEWALK TO THE STREET OR HININDER THE STREET.
3. UTILIZING BYPASSES.

THE PEDESTRIAN DETOUR USING OPPOSITE SIDE OF STREET shall be used if the pedestrian crosswalk is closed. THE SYMBOL OF ACCESSIBILITY SHOULD BE DISPLAYED WHEN ANY WALKWAY, PEDESTRIAN AREA, PEDESTRIAN CROSSWAY, OR PEDESTRIAN DETOUR USING OPPPOSITE SIDE OF STREET HINDERS PEDESTRIAN ACCESS TO THE PROJECT.

TEMPORARY PEDESTRIAN TRAFFIC CONTROL NOTES

The temporary pedestrian access route (TPAR) shall be posted and an alternate route shall be posted when the primary temporary pedestrian detour is such to comply to temporary pedestrian traffic control plan requirements of the MMUTCD, Part 6.

1. PROVIDE SIMPLE ACCESS FROM THE SIDEWALK TO THE STREET OR HININDER THE STREET.
2. PROVIDE SIMPLE ACCESS FROM THE SIDEWALK TO THE STREET OR HININDER THE STREET.
3. UTILIZING BYPASSES.

THE PEDESTRIAN TEMPORARY TRAFFIC CONTROL NOTES

The temporary pedestrian access route (TPAR) shall be posted and an alternate route shall be posted when the primary temporary pedestrian detour is such to comply to temporary pedestrian traffic control plan requirements of the MMUTCD, Part 6.

1. PROVIDE SIMPLE ACCESS FROM THE SIDEWALK TO THE STREET OR HININDER THE STREET.
2. PROVIDE SIMPLE ACCESS FROM THE SIDEWALK TO THE STREET OR HININDER THE STREET.
3. UTILIZING BYPASSES.
RIO CRESCENTS WATER MAIN REPLACEMENT PROJECT

MINIMIZE DISRUPTION TO PEDESTRIANS TO THE MAXIMUM EXTENT FEASIBLE BY PROVIDING DEVICES SHALL BE DELINEATED WITH FLAGS OR OTHER ENGINEER-APPROVED DEVICES AT NO POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM FIRM, STABLE, AND SLIP RESISTANT TEMPORARY WALKWAY SURFACE TO COVER SHORT PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE APR. PROVIDE AN ALTERNATE PEDESTRIAN ROUTE (APR) AT ALL TIMES. FOR ROADWAYS WITH NO MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE DETECTABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES.

GENERAL NOTES
WHEN COVERS OR HINGE LININGS INSIDE ARE REMOVED THE CONTRACTOR SHALL PROVIDE APPROPRIATE TEMPORARY HAND PEDESTRIAN CHANNELIZERS MAY BE REQUIRED TO PROVIDE A TACTILE PEDESTRIAN CROSSWALK IN AN AREA WHERE PEDESTRIAN CONTACT WITH THE ROADWAY HAS CAUSED A SITUATION THAT THE VISIBILITY OF A TRAFFIC CONTROL DEVICE IS REDUCED ENOUGH TO CREATE A HAZARD, THE TRAFFIC CONTROL CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

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 WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, THE CONTRACTOR SHALL 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.

OTHER SIDE OF THE STREET.

AN APPROVED ADOPTED DEVICE OR TACTILE MESSAGE SHOULD BE PROVIDED FOR PEDESTRIAN DETOUR IS NON-COMPLIANT TO TPAR STANDARDS.

REASON FOR THE NON-COMPLIANCE SHALL BE REPORTED IN WRITING TO THE CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING AND/OR END DATES) AND A PROJECT CONTACT NUMBER FOR 24/7 QUESTIONS OR REPORTING HAZARDS.

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

BYPASS ON ADJACENT AVAILABLE RIGHT OF WAY

BYPASS TYPE A

BYPASS TYPE B

BYPASS TYPE C

SPECIFIC NOTES
1. TEMPORARY CURB RAMPS WITH DETECTABLE WARNINGS.

2. TEMPORARY CURB RAMPS ARE DESTROYED WHEN THE CLOSED AREA WAS USED AS AN INTERSECTION/TRAFFIC LANE OR BYPASS LANE. SIDEWALK RAMPS SHALL BE PROMINENT FOR AT LEAST 50 FEET IN FRONT OF OR BEHIND THE WORK AREA.

3. AN APPROVED ADOPTED DEVICE OR TACTILE MESSAGE SHOULD BE PROVIDED FOR PEDESTRIAN DETOUR IS NON-COMPLIANT TO TPAR STANDARDS.

4. INTERMITTENT TRAFFIC LANE OR BYPASS LANE. STREET PARKING SHALL BE PROHIBITED FOR TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE REQUIRED TO PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE APR. COMPARE TO EXISTING TRANSITION AREA IS REQUIRED TO PROVIDE A TEMPORARY WALKWAY SURFACE TO COVER SHORT SEGMENTS OF ROUGH, SOFT, OR UNEVEN GROUND.

5. TEMPORARY CURB RAMPS WITH DETECTABLE WARNINGS.

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

LEGEND
MIN
LOW SPEED PEDESTRIAN SURFACE
WORK AREA
PEDESTRIAN CHANNELIZATION DEVICE
BARRIER
SIDEWALK BARRICADE
DIRECTION OF TRAFFIC
TRAFFIC CONTROL DEVICE

SIDEWALK BYPASS USING PARKING OR SHOULDER ON LOW SPEED ROADWAY

SIDEWALK BYPASS USING SHOULDER OR PARKING LANE ON HIGH SPEED ROADWAY
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 WHERE:

- CURB RAMP OR LANDING PLATFORM HAS A 6" HORIZONTAL DROP OR HORIZONTAL DROP OVER 4" DEEP PEAK. PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 2" OR GREATER.

- DETECTABLE EDGING IS REQUIRED, AND ANYTIME THE PATH CHANGES DIRECTION. THIS INCLUDES A TURN ONTO THE RAMP FROM THE PATH. DETECTABLE EDGING MUST BEGIN A MAXIMUM OF 2.5" ABOVE THE RAMP SURFACE, AND EXTEND AT LEAST 6" ABOVE THE RAMP SURFACE. CONTRASTING COLOR SHALL BE PLACED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

CURB RAMPS AND LANDINGS SHALL HAVE A 2% MAX. CROSS SLOPE.

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 MARKING. THE MARKING IS OPTIONAL WHERE COLOR CONTRASTING EDGING IS USED.

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". LATERAL EDGES SHOULD BE VERTICAL UP TO 1/4" HIGH, AND BEVELED AT 1:2 BETWEEN 1/4" AND 1/2" HEIGHT.
TEMPORARY PEDESTRIAN ACCESS

PEDESTRIAN CHANNELIZER USING A BARRIER (MINIMUM REQUIREMENTS)

PEDESTRIAN CHANNELIZER (MINIMUM REQUIREMENTS)

NARROW TEMPORARY PEDESTRIAN ACCESS ROUTE PASSING DETAIL

GENERAL NOTES

PERMITS OR OTHER MANEUVERS TO PROTECT A MINIMUM OF 2 INCHES OF EARTH ANCE TO THE WALKWAY CLEAR SPACE WHERE LOCATED ON A MINIMUM OF 27 INCHES ALONG THE WALKWAY SURFACE.

ANY PEDESTRIAN DEVICES USED TO PROVIDE POSITIVE PROTECTION FOR PEDESTRIANS OR WORKERS SHALL MEET THE MINIMUM REQUIREMENTS APPLICABLE FOR THE BARRIER APPLICATION.

BARRIERS SHALL BE PLACED CONTINUOUSLY ALONG THE ENTIRE WIDTH OF THE WALKWAY CLEAR SPACE CLEARED.

SPECIFIC NOTES

ANY TEMPERED GLASS IN THE WALKWAY MAY BE DETECTABLE EDGE. BARRIERS SHALL BE LOCATED OUTSIDE OF THE WALKWAY CLEAR SPACE AND SHALL NOT EXCEED 0.5 INCHES IN HEIGHT ABOVE THE WALKWAY SURFACE.

EXTERNAL SIDEWALKS SHALL BE CONTINUOUS AND A MINIMUM OF 8 INCHES IN HEIGHT ABOVE THE WALKWAY CLEAR SPACE.

ARCHITECTURAL WALK PATHING SHALL BE CONTINUOUS AND GROOVES SHALL BE LOCATED ON THE WALKWAY SURFACE. THE ARCHITECTURAL WALK PATHING SHALL BE IN A MINIMUM OF 0.04 INCHES IN HEIGHT ABOVE THE WALKWAY CLEAR SPACE.

ARCHITECTURAL WALK PATHING SHALL BE IN A MINIMUM OF 0.04 INCHES IN HEIGHT ABOVE THE WALKWAY CLEAR SPACE.

TYPICAL AUDIBLE MESSAGE DEVICE LOCATION WHEN USED

SIDEWALK BARRICADE
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

8 OF 77
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

CRESCENTS WATER MAIN REPLACEMENT PROJECT
MISC. DETAILS
MAILBOX NEWSPAPER TUBE INSTALLATION AND RELOCATION
BARRIER CURB AND GUTTER INSTALLATION DETAIL
SIDEWALK CURB AND GUTTER JOINTS
INLET PROTECTION

SIDEWALK CROSS SECTION

LEGEND:
SIDEWALK AND CURB & GUTTER JOINT SPACING
CONTRACTION JOINT
EXPANSION JOINT
SIDEWALK CURB AND GUTTER JOINTS

TREE PROTECTION
BARRIER CURB AND GUTTER
SIDEWALK CROSS SECTION

INSTALLATION DETAIL
SIDE VIEW INSTALLED
CONTRACTION JOINT
EXPANSION JOINT
SIDEWALK CURB AND GUTTER JOINTS
CREAL CRESCENT
TYPICAL SECTION
WATERMAIN TRENCH LEFT
REM OVAL KEY

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<th>DESCRIPTION</th>
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<tr>
<td>H1</td>
<td>HAZARDOUS OR FLAMMABLE MATERIAL</td>
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CREAL CRESCENT REMOVALS
STA. 39+00 - STA. 48+00

CAUTION
HAZARDOUS OR FLAMMABLE MATERIAL

CREAL CRESCENT REMOVALS
STA. 39+00 - STA. 48+00

CAUTION
HAZARDOUS OR FLAMMABLE MATERIAL

CAUTION
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CAUTION
HAZARDOUS OR FLAMMABLE MATERIAL

CAUTION
HAZARDOUS OR FLAMMABLE MATERIAL
CREAL CRESCENT REMOVALS
STA. 48+00 - STA. 52+79

REMOVAL KEY

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CAUTION
HAZARDOUS OR FLAMMABLE MATERIAL
ARGYLE CRESCENT REMOVALS
STA. 29+00 - STA. 35+60

REMOVAL KEY

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<tr>
<td>2</td>
<td>150 Main St.</td>
</tr>
<tr>
<td>3</td>
<td>City of Ann Arbor - Public Services - Engineering</td>
</tr>
<tr>
<td>4</td>
<td>301 East Huron Street</td>
</tr>
<tr>
<td>5</td>
<td>P.O. Box 8647</td>
</tr>
<tr>
<td>6</td>
<td>Ann Arbor, MI 48107-8647</td>
</tr>
<tr>
<td>7</td>
<td>734-794-6410</td>
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<td>8</td>
<td><a href="http://www.a2gov.org">www.a2gov.org</a></td>
</tr>
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<td>2022-01-20</td>
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CAUTION: HAZARDOUS OR FLAMMABLE MATERIAL

ARGYLE CRESCENT

SAUNDERS CRESCENT

CAUTION: HAZARDOUS OR FLAMMABLE MATERIAL

REMOVING 6" and smaller
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

CRESCENTS WATER MAIN REPLACEMENT PROJECT
CREAL CRESCENT WATER MAIN
STA. 0+00 - STA. 4+00
CREAL CRESCENT WATER MAIN REPLACEMENT PROJECT

WATER MAIN STRUCTURE TABLE

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CAUTION: HAZARDOUS OR FLAMMABLE MATERIAL

Know what's below. Call before you dig.

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

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

20220123

31 OF 77
Plan: 1" = 20'
Profile: 1" = 2'

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

CREAL CRESCENT WATER MAIN REPLACEMENT
PROJECT
CREAL CRESCENT WATER MAIN
STA. 13+00 - STA. 17+50
Know what's below. Call before you dig.
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

CRESCENTS WATER MAIN REPLACEMENT PROJECT
COOLEY AVE WATER MAIN
STA. 74+00 - STA. 75+31

24" Gate Valve shall be the bevel and gear type so that the gate operates horizontally.

24" Oversized Couplers, 2 Ea., shall be available on site during the 24" Ppoe placement day.
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
CRESCENTS WATER MAIN REPLACEMENT PROJECT
HATCHER SAUNDERS CRESCENT WATER MAIN
STA. 20+18 - STA. 24+50
CAUTION
HAZARDOUS OR FLAMMABLE MATERIAL

Know what's below. Call before you dig.
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**WATER MAIN STRUCTURE TABLE**

**PLAN:** 1" = 20′

**PROFILE:** 1" = 2′

**CAUTION**

HAZARDOUS OR FLAMMABLE MATERIAL

Know what's below. Call before you dig.
Know what's below. Call before you dig.
Know what's below. Call before you dig.
CAUTION
HAZARDOUS
OR FLAMMABLE
MATERIAL
CAUTION
HAZARDOUS
OR FLAMMABLE
MATERIAL

Know what's below.
Call before you dig.

ARGYLE CRESCENT
SAUNDERS CRESCENT
STORM SEWER STRUCTURE TABLE

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CAUTION: HAZARDOUS OR FLAMMABLE MATERIAL

Know what's below. Call before you dig.
STORM SEWER STRUCTURE TABLE

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CONSTRUCTION KEY

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SAUNDERS CRESCENT WATER MAIN REPLACEMENT PROJECT

SAUNDERS CRESCENT ROAD PLANS

STA. 65+50 - STA. 72+50

HILLRIDGE BLVD
CONSTRUCTION KEY

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SAUNDERS CRESCENT  CG
DOM
SWR6-HE
CG
DOM
SWR6-HE
CG
DOM
SWR6-HE
CG
DOM
SWR6-HE
CG
DOM
SWR6
DWS
CG

CAUTION
HAZARDOUS
OR FLAMMABLE
MATERIAL