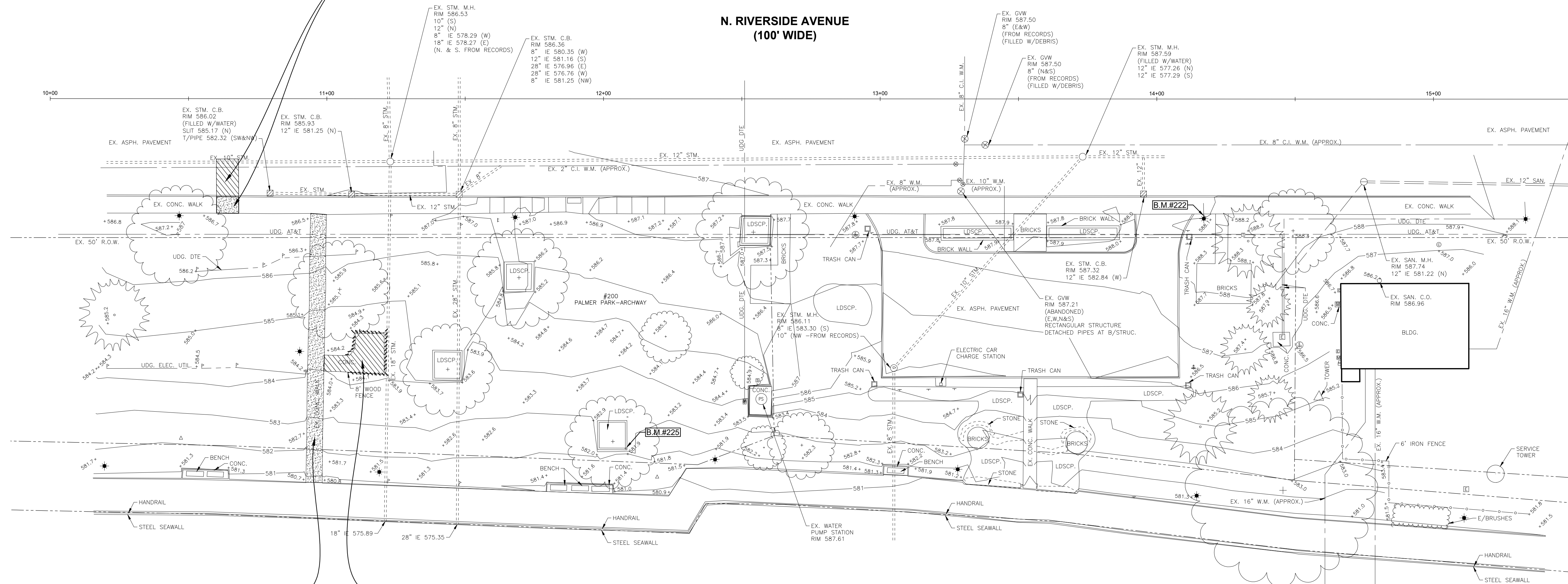


**PAVEMENT & SIDEWALK REMOVAL FOR WATER SERVICE CONNECTION (SAWCUT FULL-DEPTH)**

**N. RIVERSIDE AVENUE (100' WIDE)**



REMOVE EXISTING SIDEWALK

REMOVE EXISTING PORTA-POTTYS, CONCRETE PAVEMENT & WOOD FENCING

**BENCHMARKS (NAVD88 DATUM)**

BENCHMARK NO. 221  
 CHIS "X" ON NW BOLT OF TOP HYDRANT, SOUTHWEST CORNER RIVERSIDE AVE. AND VINE ST.  
 ELEVATION: 593.37

BENCHMARK NO. 222  
 CHIS "X" ON NW BOLT OF LIGHT POLE BASE ON EAST SIDE OF RIVERSIDE AVE., AT EXIT FOR PALMER PARK PARKING.  
 ELEVATION: 588.59

BENCHMARK NO. 223  
 TOP HYDRANT ON WEST SIDE OF RIVERSIDE AVE. AT RIVERSIDE PLAZA PARK.  
 ELEVATION: 590.24

BENCHMARK NO. 225  
 CHIS "T" NORTHEAST CORNER CONC. PLANTER, 25'+/- SOUTHWEST OF 45 DEG ANGLE OF WOODEN BOARDWALK, EAST SIDE PALMER PARK  
 ELEVATION: 583.54

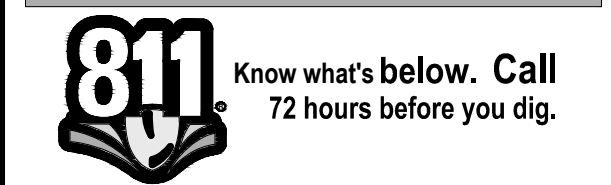
**ESTIMATED REMOVAL QUANTITIES (THIS SHEET)**

|                  |        |
|------------------|--------|
| 1. Sidewalk, Rem | 69 Syd |
| 2. Pavt, Rem     | 37 Syd |
| 3. Fence, Rem    | 50 Ft  |

**EXISTING LEGEND**

|        |   |     |                           |
|--------|---|-----|---------------------------|
| --- -- | BOUNDARY LINE   | +   | SANITARY SEWER            |
| +585.0 | SPOT ELEVATION (*+ INDICATES ELEVATION LOCATION UNLESS OTHERWISE INDICATED) | +   | FAUCET                    |
| +      | SIGN  | +   | FIRE HOSE CONNECTION      |
| ++     | SIGN DOUBLE   | PS  | WATER PUMP STATION        |
| ●      | POWER POLE  | ⊗   | GATE VALVE & WELL         |
| ★      | LIGHT POLE  | ⊙   | VALVE BOX                 |
| ■      | ELECTRIC PEDESTAL   | ■   | SPRINKLER BOX             |
| □      | ELECTRIC TRANSFORMER  | --- | WATER MAIN                |
| ⊙      | COMMUNICATION PEDESTAL  | □   | DOWN SPOUT                |
| ■      | PHONE PEDESTAL  | ⊗   | STORM CATCH BASIN (PAVT.) |
| △      | CONTROL POINTS  | ⊗   | STORM CATCH BASIN (FIELD) |
| ○      | GAS METER   | ○   | STORM MANHOLE             |
| ○      | SANITARY CLEAN OUT  | --- | STORM SEWER               |
| ⊖      | SANITARY MANHOLE  | --- | OVHD. UTIL./UNDG. UTIL.   |
|        |   | P   | UTILITY MARKER            |

|               |   |
|---------------|---|
| DATE          | SUBMITTALS/REVISIONS  |
|               |   |
| PROJECT NAME: | ST. CLAIR TRAIL HUB PALMER PARK   |
| SHEET TITLE:  | TOPOGRAPHICAL SURVEY & REMOVAL PLAN   |
| CLIENT:       | CITY OF ST. CLAIR   |
| LEGEND:       | <input type="checkbox"/> PRELIMINARY <input type="checkbox"/> CONSTRUCTION <input type="checkbox"/> RECORD<br>DRAWN BY: R. OLIVEIRA   DESIGNED BY:<br>CHECKED BY: R. KERN   DATE: MARCH 2026<br>SCALE: 1" = 20'<br> |



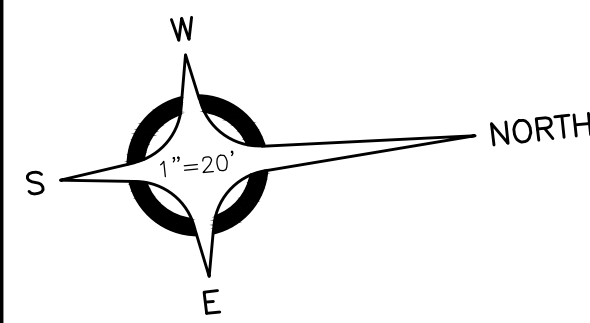
UTILITY INFORMATION, AS SHOWN, INDICATES APPROXIMATE LOCATIONS AND TYPES OF EXISTING FACILITIES ONLY. AS DISCLOSED BY RECORDS PROVIDED TO THIS FIRM FROM THE VARIOUS UTILITY COMPANIES. NO GUARANTEE IS GIVEN OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF.

PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING OVERHEAD AND UNDERGROUND UTILITIES (IN CONFLICT WITH THE CONSTRUCTION OF THESE PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. DURING THE CONSTRUCTION, THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL UTILITIES THAT ARE ENCOUNTERED. (ALL COSTS FOR UTILITY LOCATION VERIFICATION, SUPPORT AND PROTECTION SHALL BE INCLUDED IN THE PROPOSED PAY ITEM CONFLICTING WITH THAT UTILITY).

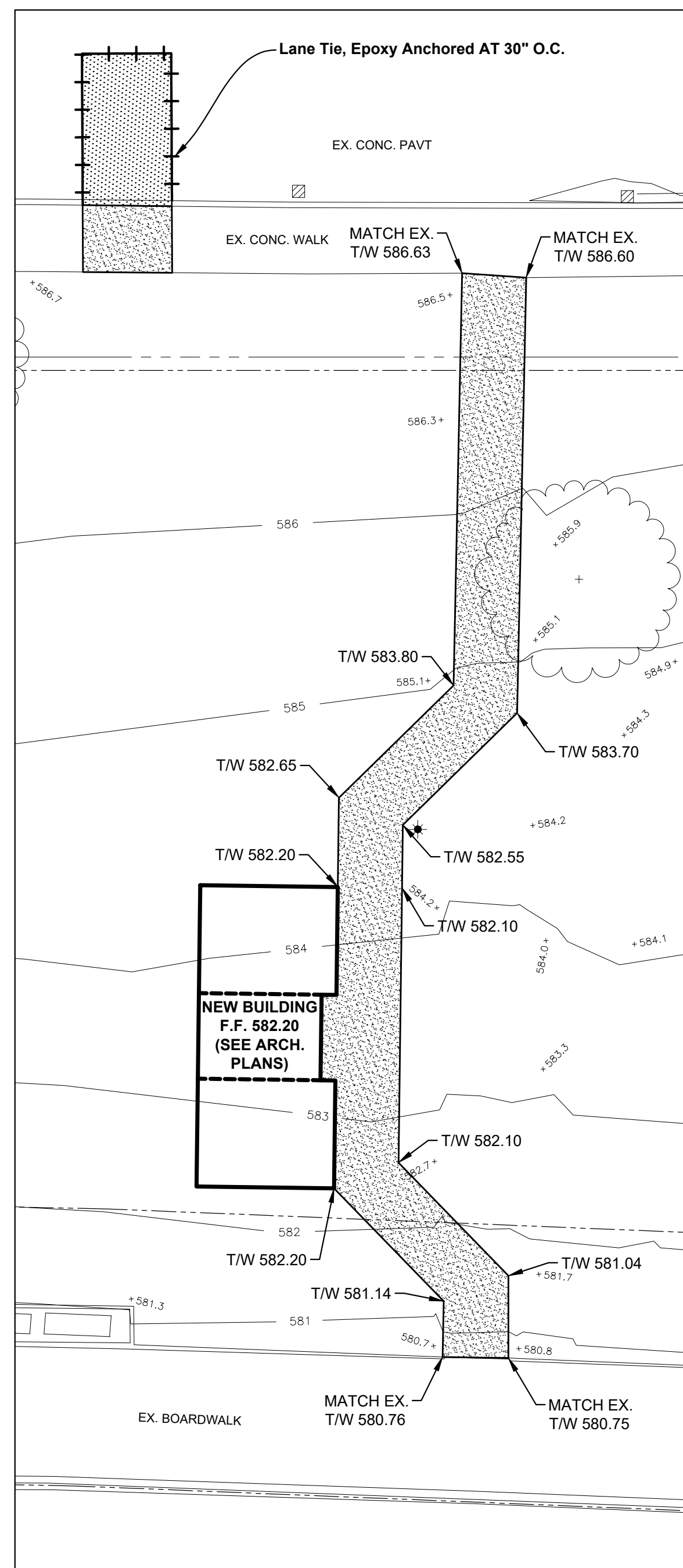
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PROJECT NO. 0186-0282

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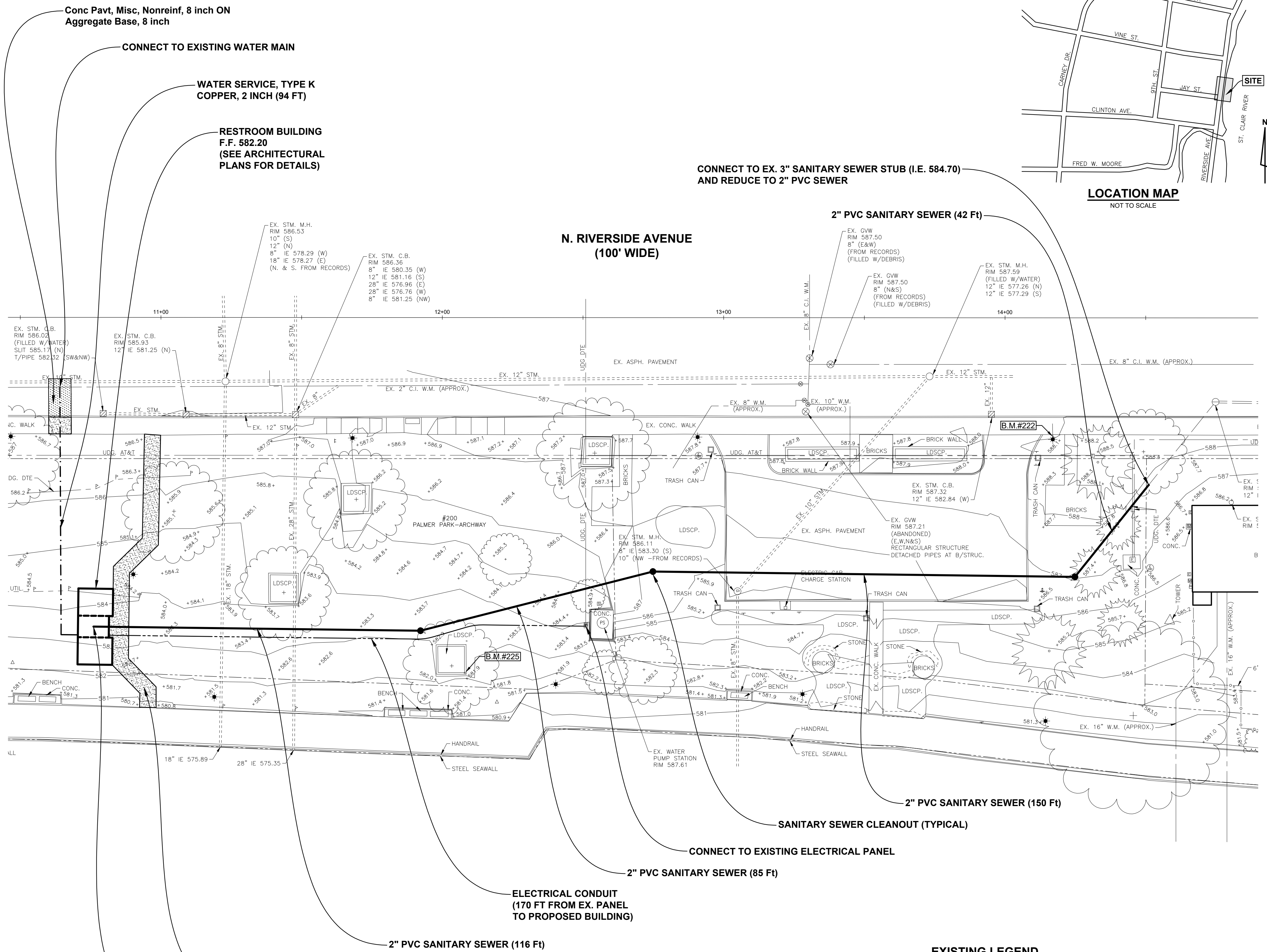


**ANDERSON, ECKSTEIN & WESTRICK, INC.**  
 CIVIL ENGINEERS - SURVEYORS - ARCHITECTS  
 51301 Schoenherr Road  
 Shelby Township, MI 48315  
 586.726.1234 | aewinc.com  
 Engineering Strong Communities



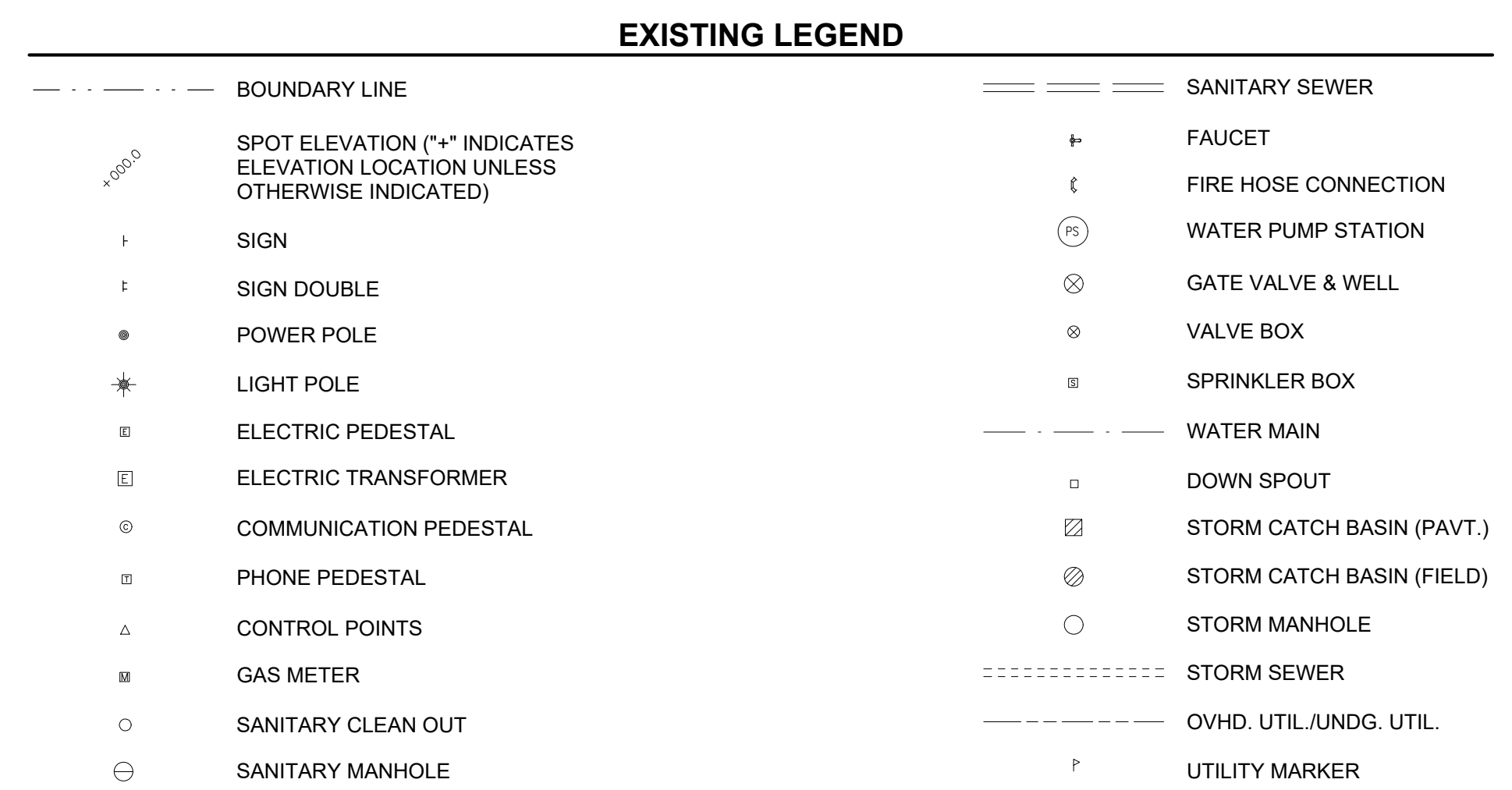
**SIDEWALK GRADING DETAIL**  
 SCALE: 1" = 10'

**BENCHMARKS (NAVD88 DATUM)**  
 BENCHMARK NO. 221  
 TOP HYDRANT, SOUTHWEST CORNER RIVERSIDE AVE. AND VINE ST.  
 ELEVATION: 593.37  
 BENCHMARK NO. 222  
 CHIS "X" ON NW BOLT OF LIGHT POLE BASE ON EAST SIDE OF RIVERSIDE AVE., AT EXIT FOR PALMER PARK PARKING.  
 ELEVATION: 588.59  
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 BENCHMARK NO. 225  
 CHIS "T" NORTHEAST CORNER CONC. PLANTER, 25' +/- SOUTHWEST OF 45 DEG ANGLE OF WOODEN BOARDWALK, EAST SIDE PALMER PARK.  
 ELEVATION: 583.54



**ESTIMATED CONSTRUCTION QUANTITIES (THIS SHEET)**

|   |         |
|---|---------|
| 1. Sanitary Sewer, Sch 80 PVC, 2 inch   | 393 Ft  |
| 2. Sanitary Sewer, Cleanout             | 3 Ea    |
| 3. Grinder Pump & Well                  | 1 Ea    |
| 4. Sanitary Sewer Connection, 3 inch    | 1 Ea    |
| 5. Water Service, Type K Copper, 2 inch | 94 Ft   |
| 6. Water Service Connection, 2 inch     | 1 Ea    |
| 7. Electrical Conduit                   | 170 Ft  |
| 8. Electrical Connection                | 1 Ea    |
| 9. Sidewalk, Conc, 4 inch               | 664 Sft |
| 10. Aggregate Base, 8 inch              | 13 Syd  |
| 11. Conc Pavt, Misc, Nonrein, 8 inch    | 13 Syd  |
| 12. Lane Tie, Epoxy Anchored            | 14 Ea   |



|  |                                       |
|--|---------------------------------------|
| DATE                                   | SUBMITTALS/REVISIONS                  |
| PROJECT NAME:                          |                                       |
| <b>ST. CLAIR TRAIL HUB PALMER PARK</b> |                                       |
| SHEET TITLE:                           |                                       |
| <b>CONSTRUCTION PLAN</b>               |                                       |
| CLIENT:                                |                                       |
| CITY OF ST. CLAIR                      |                                       |
| <input type="checkbox"/> PRELIMINARY   | <input type="checkbox"/> CONSTRUCTION |
| <input type="checkbox"/> RECORD        |                                       |
| DRAWN BY:                              | DESIGNED BY:                          |
| R. OLIVEIRA                            |                                       |
| CHECKED BY:                            | DATE:                                 |
| R. KERN                                | MARCH 2026                            |
| SCALE:                                 |                                       |
| 1" = 20'                               |                                       |
| 0 10 20 40                             |                                       |

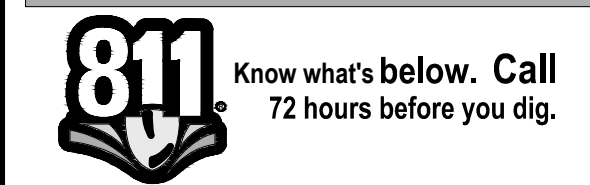
**ST. CLAIR TRAIL HUB PALMER PARK**

**CONSTRUCTION PLAN**

CLIENT: CITY OF ST. CLAIR

PRELIMINARY  CONSTRUCTION  RECORD

DRAWN BY: R. OLIVEIRA  
 DESIGNED BY:  
 CHECKED BY: R. KERN  
 DATE: MARCH 2026



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PROJECT NO. 0186-0282

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