

**ENGINEER/SURVEYOR**

BAYER BECKER  
1404 RACE STREET, SUITE 204  
CINCINNATI, OH 45202  
(513) 834-6151

**UTILITY COMPANIES**

Sanitary Sewer	Metropolitan Sewer District	(513) 244-1300
Water	Greater Cincinnati Water Works	(513) 591-7700
Gas	Duke Energy	(513) 287-2594
Electric	Duke Energy	(513) 287-3498
Telephone	Cincinnati Bell Telephone	(513) 397-5660
Cable TV	Time Warner Cable	(513) 489-5042

**SITE GENERAL NOTES**

- WORK SHALL FOLLOW THE SPECIFICATIONS OF THE 2024 OHIO BUILDING CODE.
- CONTRACTOR SHALL FIELD-VERIFY THE DEPTH & LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING WORK.
- ALL WORK SHALL BE COMPLETED ACCORDING TO CITY OF CINCINNATI DOTE STANDARDS OR ODOT C&M SPECIFICATIONS. IF A CONFLICT EXISTS, CITY STANDARDS PREVAIL.
- ITEM NUMBERS REFER TO THE CURRENT EDITION OF THE OHIO DEPARTMENT OF TRANSPORTATION'S CONSTRUCTION & MATERIAL SPECIFICATIONS.
- SEE ARCHITECT'S PLANS FOR BUILDING FEATURES & FOUNDATION DIMENSIONS.

**SITE PERMITS NOTES**

- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL CITY OF CINCINNATI PERMITS FOR PROPOSED SITE WORK, INCLUDING (BUT NOT LIMITED TO): GOWW BRANCH APPLICATION, MSD TAP PERMIT, DOTE RIGHT-OF-WAY PERMIT (FOR UTILITY CONNECTIONS, STREET/WALK CLOSURE, AND PAVEMENT INSTALLATION), DOTE BARRICADE PERMIT, DOTE REVOCABLE STREET PERMIT (IF APPLICABLE).
- CONTRACTOR SHALL SUBMIT ANY & ALL WATER SERVICE FOD RECEIPTS TO MSD WHEN APPLYING FOR TAP PERMIT.

**SITE DEMOLITION NOTES**

- THE TOPOGRAPHIC AND UTILITY INFORMATION SHOWN IS BASED ON A SURVEY PREPARED BY BAYER BECKER, DATED MARCH 2024. THE CONTRACTOR SHALL OBTAIN A COMPLETE COPY OF THE FINAL BASE MAP PRIOR TO BEGINNING WORK.
- APPROPRIATE UTILITY COMPANIES AND OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) SHALL BE NOTIFIED AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO BREAKING GROUND FOR THE PURPOSE OF VERIFYING BY FIELD INSPECTION THE EXACT LOCATION OF THE UNDERGROUND UTILITY.
- REMOVAL AND/OR RELOCATION OF ANY UTILITIES SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY AND SHALL BE DISCONNECTED PER THE ASSOCIATED UTILITY AGENCY'S REQUIREMENTS.
- THESE PLANS, AS PREPARED BY BAYER BECKER, DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE DEMOLITION/CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF BAYER BECKER'S REGISTERED PROFESSIONAL ENGINEER HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY U.S. OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA) AND/OR LOCAL REGULATIONS.
- ALL CONTRACTORS INCLUDING, BUT NOT LIMITED TO, THE DEMOLITION, EXCAVATION, PAVING, PLUMBING, ELECTRICAL, SIGN, FIRE PROTECTION, AND HVAC CONTRACTORS SHALL BE UNDER THE DIRECTION OF THE GENERAL CONTRACTOR OR OWNER WHO WILL BE HELD RESPONSIBLE FOR THE COORDINATION OF ALL WORK ON THIS PROJECT AND THE PROPER EXECUTION OF THE SAME.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES, FACILITIES, AND STRUCTURES THAT ARE INTENDED TO CONTINUE TO PROVIDE SERVICE (WHETHER SHOWN ON THE PLANS OR NOT).
- THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN AND VEHICULAR ACCESS TO ALL ADJACENT FACILITIES, INCLUDING BUILDINGS AND THOROUGHFARES, DURING THE CONSTRUCTION PROCESS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING CITY PERMITS FOR TEMPORARY SIDEWALK AND LANE CLOSURES AS NEEDED.
- WHERE CONNECTING TO EXISTING ASPHALT OR CONCRETE PAVEMENT, THE CONTRACTOR SHALL SAWCUT THE EXISTING EDGE OF PAVEMENT (AT AN EXISTING JOINT IF POSSIBLE FOR CONCRETE) TO PROVIDE A SOUND & CLEAN EDGE. FOR ASPHALT, THE CONTRACTOR SHALL APPLY ITEM 407 TACK COAT TO THE ENTIRE CUT FACE OF EXISTING PAVEMENT PRIOR TO PLACEMENT OF THE PROPOSED PAVEMENT; FOR CONCRETE, AN EXPANSION JOINT MATERIAL SHALL BE APPLIED.
- AS SOON AS DEMOLITION WORK HAS BEEN COMPLETED AND APPROVED BY THE OWNER, EARTHWORK MAY BEGIN. THE FINAL GRADE IN AREAS OUTSIDE THE CONSTRUCTION SITE SHALL BE SUCH AS TO PRESENT A NEAT, WELL-DRAINED APPEARANCE, AND TO PREVENT WATER FROM DRAINING UNNECESSARILY ONTO ADJACENT FACILITIES.
- TRENCHES FROM THE REMOVAL OF EXISTING UTILITIES SHALL BE BACKFILLED AND COMPACTED PER THE SITE GEOTECHNICAL REPORT AND/OR THE RECOMMENDATION OF THE PROJECT GEOTECHNICAL ENGINEER.
- ALL DIRT IMPORTED FROM OFFSITE TO BE USED AS STRUCTURAL FILL OR BACKFILL SHALL BE INSPECTED BY THE PROJECT GEOTECHNICAL ENGINEER (AND REPORTS PROVIDED TO OWNER) PRIOR TO PLACEMENT.
- ALL PAVEMENT AND SITE FEATURES TO BE REMOVED SHALL BE HAULED OFFSITE AT THE DIRECTION OF THE OWNER.

**MAINTENANCE OF TRAFFIC NOTES**

- ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT STATE OF OHIO DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIAL SPECIFICATIONS, AND CURRENT STANDARD DRAWINGS, UNLESS OTHERWISE NOTED.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE C&M SPECIFICATIONS AS WELL AS IN ACCORDANCE WITH PART 7 OF ODOT C&M. LANE CLOSURES SHALL BE IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWINGS MT-97.10, MT-99.10.
- LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES THROUGH THE USE OF FLAGGERS AND SAFETY CONES, AS DIRECTED BY THE CITY OF CINCINNATI DOTE.
- THE CONTRACTOR MUST COORDINATE THE WORK SO AS TO NOT INTERRUPT INGRESS AND EGRESS FROM AFFECTED PROPERTIES. IF THE CONTRACTOR SO ELECTS, HE MAY SUBMIT ALTERNATE METHODS FOR THE MAINTENANCE OF TRAFFIC, PROVIDED THAT THE INTENT OF THE ABOVE PROVISIONS IS FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS THEREFROM. NO ALTERNATE PLAN WILL BE PUT INTO EFFECT UNTIL THE APPROVAL HAS BEEN GRANTED, IN WRITING, BY THE CITY OF CINCINNATI DOTE.
- THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES.
- NO TRENCH SHALL BE LEFT OPEN OVERNIGHT. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED WORK SHALL BE PLATED OR BACKFILLED AT THE DIRECTION OF THE COUNTY ENGINEER.
- THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES LOCATED PRIOR TO BEGINNING CONSTRUCTION.

**SITE GRADING PLAN NOTES**

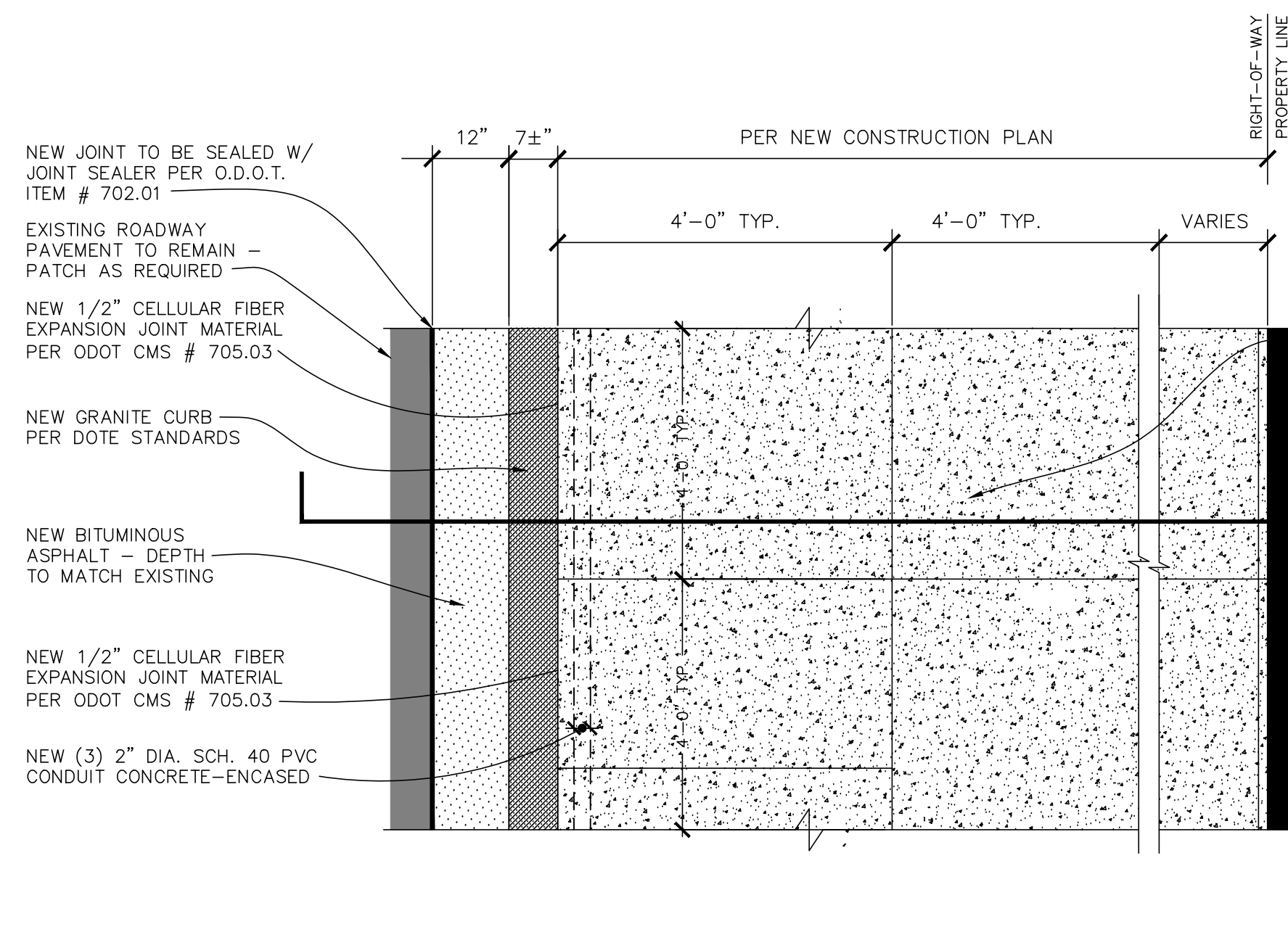
- THE GRADING PLAN IS TO BE USED FOR GRADING PURPOSES ONLY.
- ALL DIMENSIONS AND PROPOSED ELEVATIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED. ALL PROPOSED ELEVATIONS ARE TO THE FINISHED SURFACE.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SET UP AN ONSITE PRE-CONSTRUCTION MEETING WITH THE CITY OF CINCINNATI BUILDING DEPARTMENT, PROJECT GEOTECHNICAL ENGINEER, EARTHWORK CONTRACTOR AND SITE CIVIL ENGINEER.
- FFE = FINISH FLOOR ELEVATION

ALTERNATES 4, 5 & 6

**INDEX OF SHEETS**

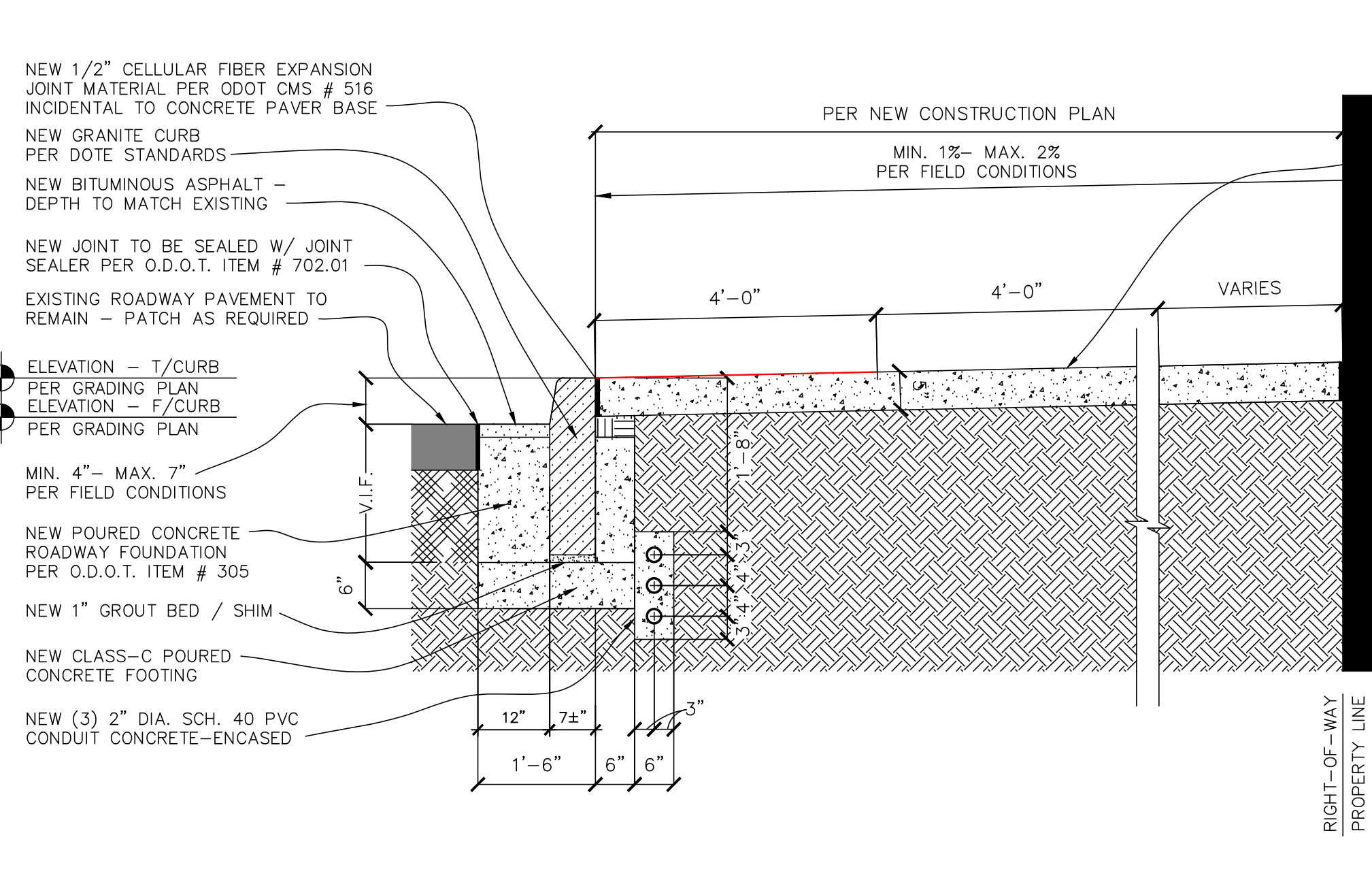
C100	SITE NOTES
C101	STREETSCAPE DETAILS
C200	SITE SURVEY - NORTH
C201	SITE SURVEY - SOUTH
C202	SITE DEMOLITION PLAN - NORTH
C203	SITE DEMOLITION PLAN - SOUTH
C300	STREETSCAPE MATERIALS PLAN - NORTH
C301	STREETSCAPE MATERIALS PLAN - SOUTH
C302	TRAFFIC CONTROL PLAN - NORTH
C303	TRAFFIC CONTROL PLAN - SOUTH
C400	SITE UTILITY PLAN - NORTH
C401	SITE UTILITY PLAN - SOUTH
C500	SITE GRADING PLAN - NORTH
C501	SITE GRADING PLAN - SOUTH
T100	TRAFFIC SIGNAL GENERAL NOTES
T101	TRAFFIC SIGNAL GENERAL NOTES
T102	WALNUT ST AND FOURTH ST SIGNAL PLAN
T103	WALNUT ST AND FOURTH ST MAST ARM DETAILS
T104	WALNUT ST AND FOURTH ST WIRING DETAILS
T105	WALNUT ST BETWEEN FOURTH ST AND FIFTH ST SIGNAL PLAN
T106	WALNUT ST BETWEEN FOURTH ST AND FIFTH ST MAST ARM DETAILS
T107	WALNUT ST BETWEEN FOURTH ST AND FIFTH ST WIRING DETAILS
T108	WALNUT ST AND FIFTH ST SIGNAL PLAN
T109	WALNUT ST AND FIFTH ST MAST ARM DETAILS
T110	WALNUT ST AND FIFTH ST WIRING DETAIL

Date	Dwn't	Chk.					
Revision	Description						
Item							
<b>5th ST &amp; WALNUT ST STREETSCAPE</b> CITY OF CINCINNATI HAMILTON COUNTY SITE NOTES							
Drawing: 23-0254 CD WALNUT ST Drawn by: RAS Checked By: MPD Issue Date: 8-16-24 Sheet:							
C100							



Typical Concrete Sidewalk Plan w/Granite Curb  
SCALE: N.T.S.

1  
C101



Typical Concrete Sidewalk Section w/Granite Curb  
SCALE: N.T.S.

2  
C101

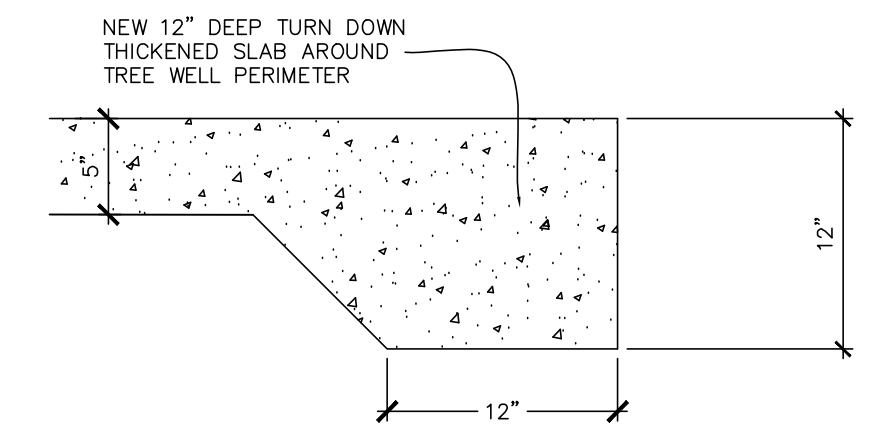
NOTES FOR INTERSECTION OF BACK OF WALK, R/W LINE, PROPERTY LINE:  
AT LOCATIONS WHERE NEW SIDEWALK ABUTS EXISTING CONCRETE OR BITUMINOUS PAVEMENT INSTALL NEW 1/2" CELLULAR FIBER EXPANSION JOINT MATERIAL PER ODOT CMS # 516 INCIDENTAL TO CONCRETE WALK.  
AT LOCATIONS WHERE NEW SIDEWALK ABUTS AN EXISTING STRUCTURE OR BUILDING LINE WITH A SMOOTH SURFACE, INSTALL NEW 1/2" CELLULAR FIBER EXPANSION JOINT MATERIAL PER ODOT CMS # 516 INCIDENTAL TO CONCRETE WALK.  
AT LOCATIONS WHERE NEW SIDEWALK ABUTS AN EXISTING STRUCTURE OR BUILDING LINE WITH AN IRREGULAR / ROCKY SURFACE, INSTALL NEW 1/2" FLEXIBLE FOAM EXPANSION JOINT MATERIAL PER ODOT CMS # 516 INCIDENTAL TO CONCRETE WALK.

**SOIL MIX SCHEDULE \***

**SPECIAL SOIL MIX (A):**

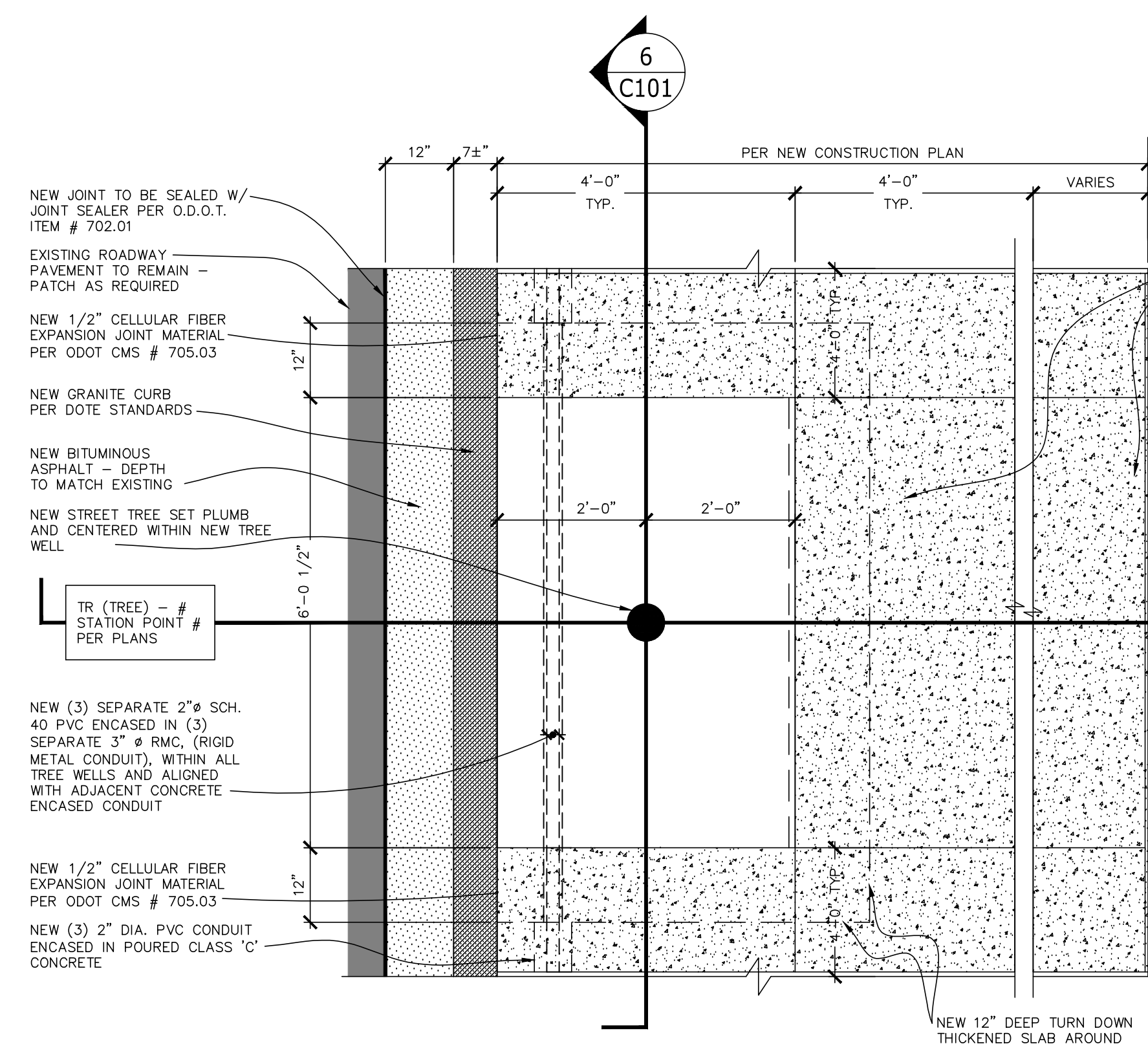
MIXTURE:
50% SAND
35% TOPSOIL
15% ORGANIC MATTER

\* SOIL MIX NOTES:  
1. SOIL MIX A TO BE INSTALLED BY GENERAL CONTRACTOR. GENERAL CONTRACTOR TO COORDINATE W/ CITY PROJECT ENGINEER AND PARK BOARD, URBAN FORESTRY, AS REQUIRED.



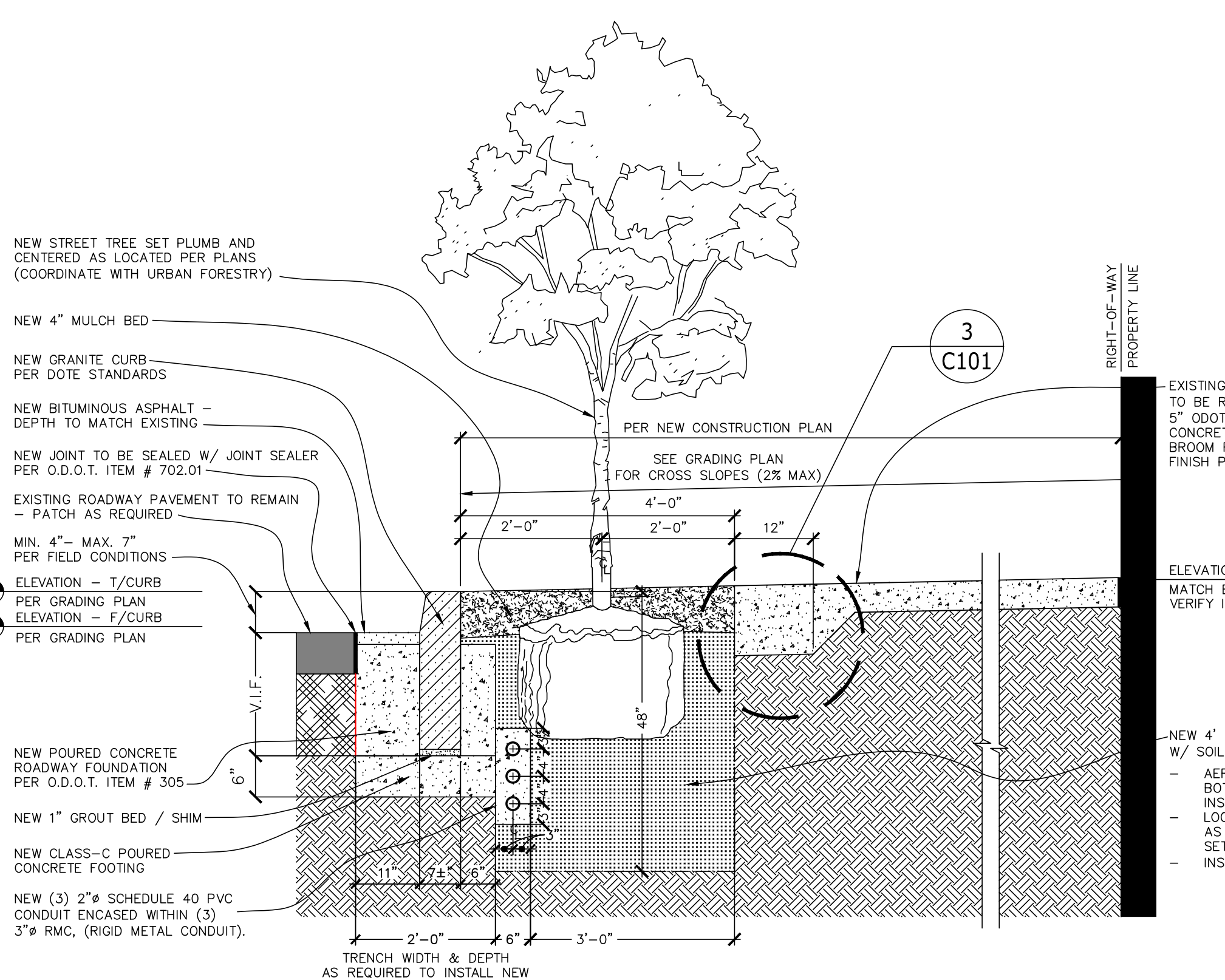
Tree Well Curb Detail  
SCALE: N.T.S.

3  
C101



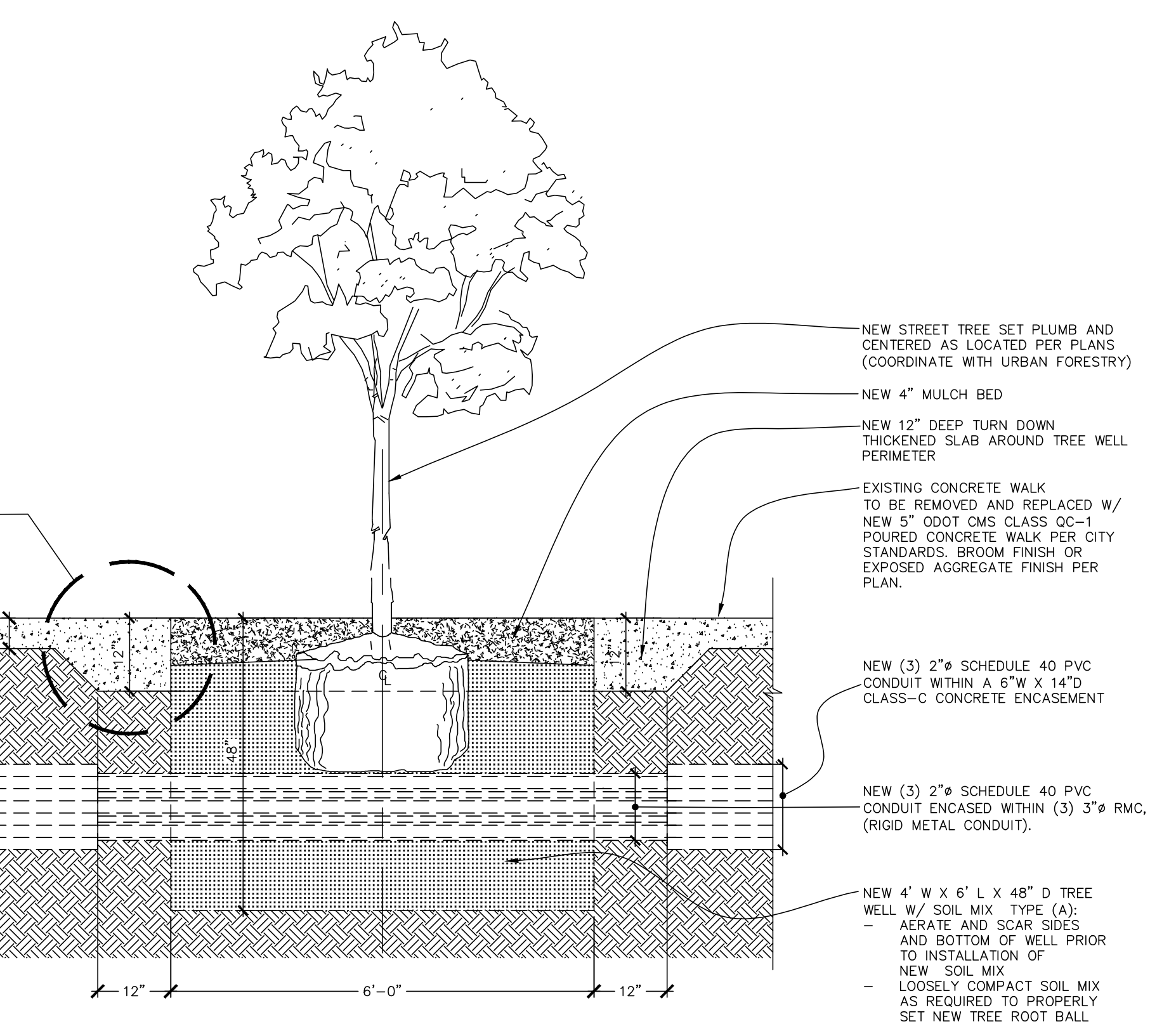
Typical Concrete Sidewalk Plan Detail w/ New Tree Well  
SCALE: N.T.S.

4  
C101



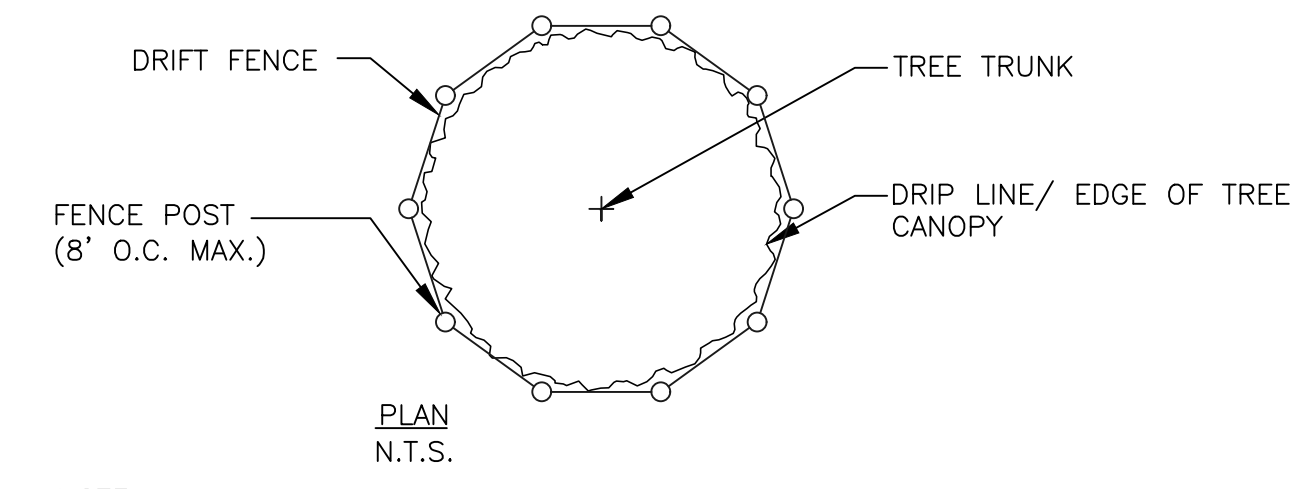
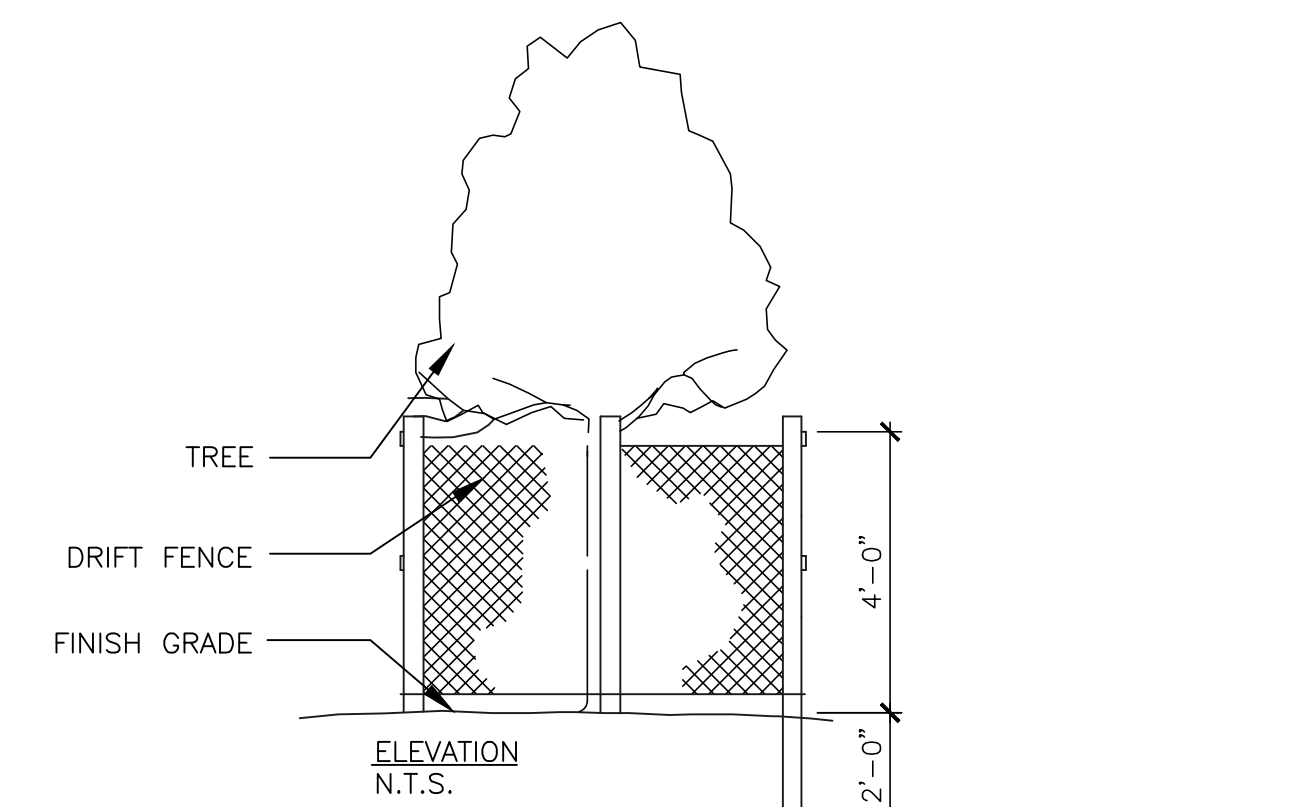
Typical Tree Well Section  
SCALE: N.T.S.

5  
C101



Typical Tree Well Section  
SCALE: N.T.S.

6  
C101



NOTE:  
1. DRIFT FENCE SHALL BE LOCATED AT THE OUTER PERIMETER OF THE SPREAD OF THE BRANCHES (DRIP LINE) EXCEPT WHERE PROHIBITED BY EXISTING PAVEMENTS OR STRUCTURES.  
2. CONTRACTOR SHALL MAINTAIN INTEGRITY OF TREE PROTECTION FENCE THROUGHOUT THE PROJECT. REPAIR DAMAGED FENCING IMMEDIATELY. TREE PROTECTION FENCE SHALL NOT BE RELOCATED, FOR ANY REASON, WITHOUT WRITTEN CONSENT FROM OWNER.

7  
C101  
**TREE PROTECTION DETAIL**  
NOT TO SCALE

THIS DOCUMENT AND ALL RELATED DETAIL DRAWINGS, SPECIFICATIONS, AND ELECTRONIC MEDIA PREPARED OR FINISHED BY BAYER BECKER (B.B.) ARE PROPERTY MADE IN THE USA AND ARE INSTRUMENTS OF PROFESSIONAL SERVICE AND ARE THE EXCLUSIVE PROPERTY OF B.B. NO DISCLOSURE, REPRODUCTION, OR DUPLICATION IN WHOLE OR IN PART MAY BE MADE WITHOUT WRITTEN PERMISSION OF B.B. AND IS SOLELY AT USER'S RISK. COPYRIGHT - ALL RIGHTS RESERVED.

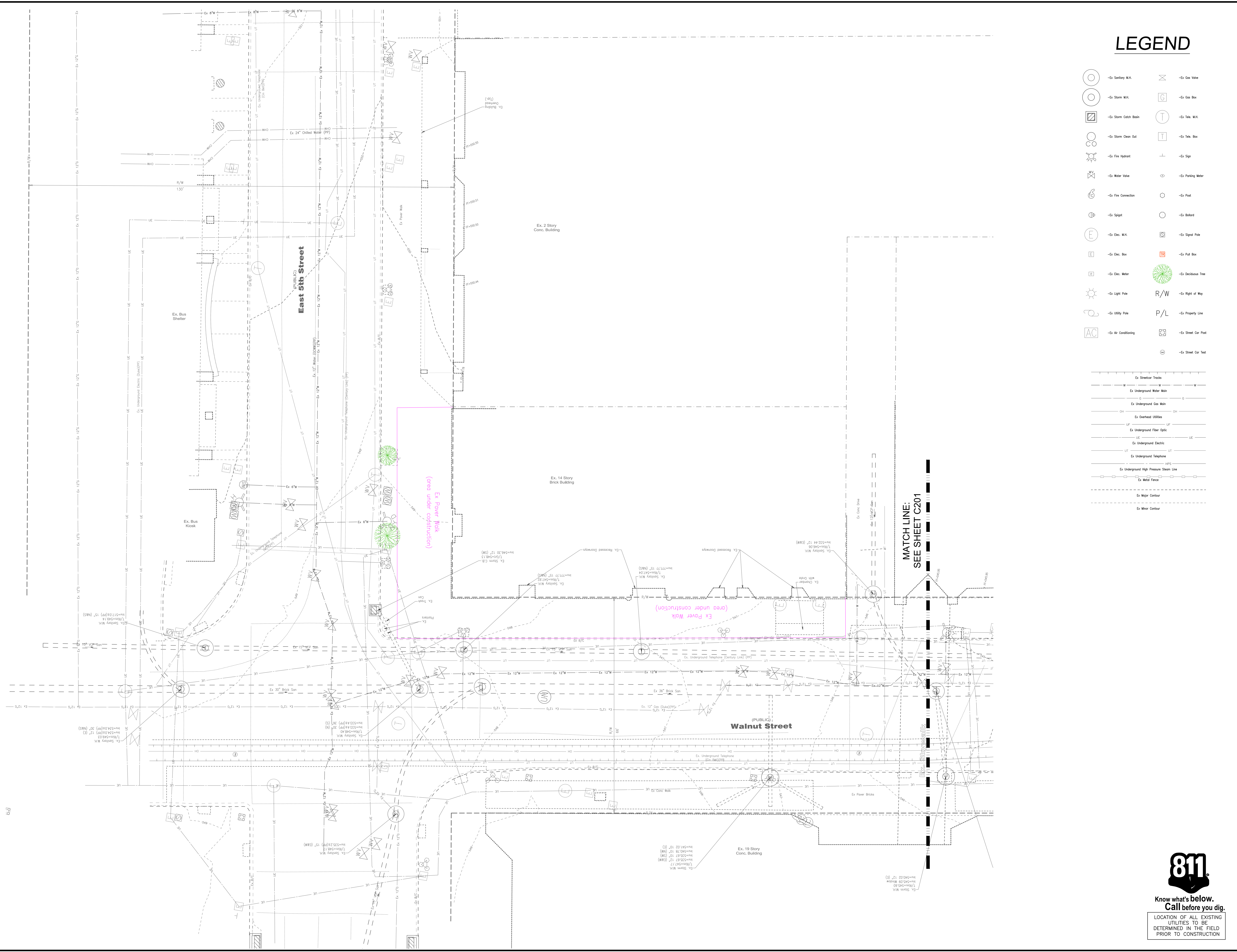
**5th ST & WALNUT ST  
STREETSCAPE**  
CITY OF CINCINNATI  
HAMILTON COUNTY  
STREETSCAPE DETAILS

**bayer becker**  
www.bayerbecker.com  
1404 Race Street, Suite 204  
Cincinnati, OH 45202-5133/64.6151

Drawing: 23-0254 CD WALNUT ST  
Drawn by: RAS  
Checked by: MPD  
Issue Date: 8-16-24  
Sheet:

**C101**

Plot file: Sep 30, 2024, 2:28pm  
Drawing name: J:\2023\23-0254\CD\DWG\23-0254 CD WALNUT ST.DWG - Layout Tab: C101 - Site Notes



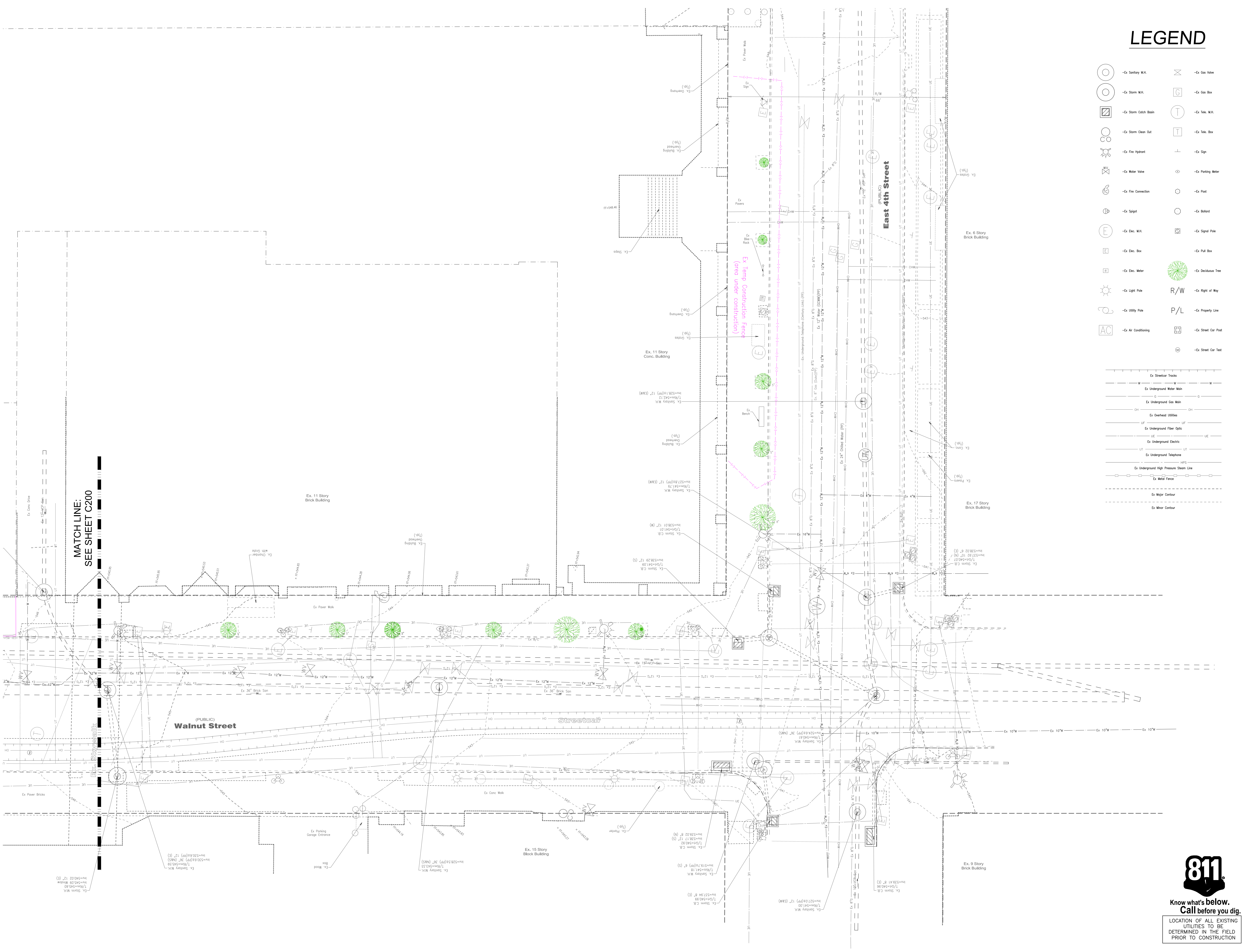
## LEGEND

- Ex Sanitary M.H.
- Ex Storm M.H.
- Ex Storm Catch Basin
- Ex Storm Clean Out
- Ex Fire Hydrant
- Ex Water Valve
- Ex Fire Connection
- Ex Siphon
- Ex ELEC. M.H.
- Ex ELEC. Box
- Ex ELEC. Meter
- Ex Light Pole
- Ex Utility Pole
- Ex Air Conditioning
- Ex Gas Valve
- Ex Gas Box
- Ex Tele. M.H.
- Ex Tele. Box
- Ex Sign
- Ex Parking Meter
- Ex Post
- Ex Bulb
- Ex Signal Pole
- Ex Pull Box
- Ex Deciduous Tree
- R/W -Ex Right of Way
- P/L -Ex Property Line
- Ex Street Car Post
- Ex Street Car Post

- Ex Streetcar Tracks
- Ex Underground Water Main
- Ex Underground Gas Main
- Ex Overhead Utilities
- Ex Underground Fiber Optic
- Ex Underground Electric
- Ex Underground Telephone
- Ex Underground High Pressure Steam Line
- Ex Metal Fence
- Ex Major Contour
- Ex Minor Contour

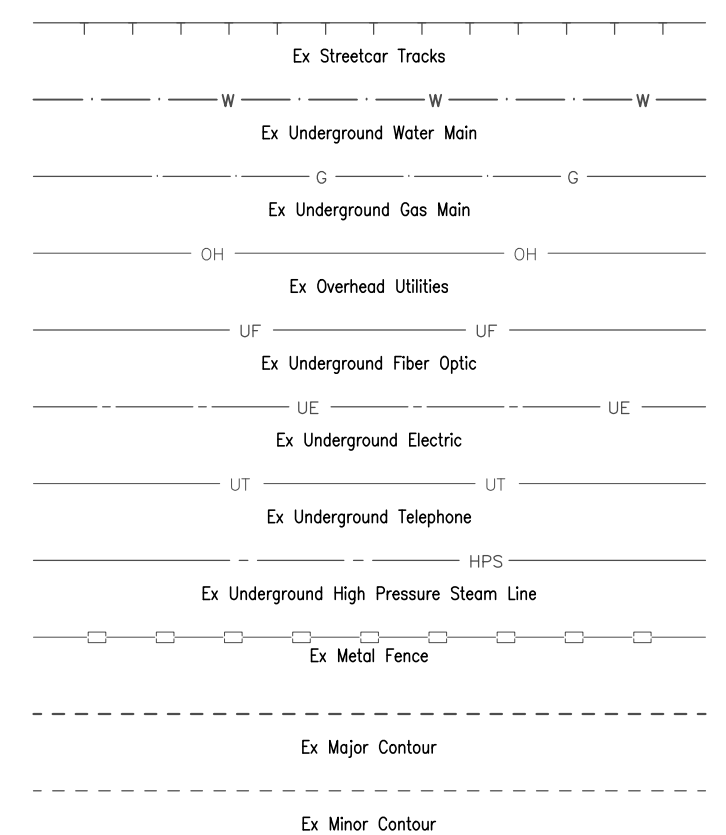
 bayer becker 1404 Race Street, Suite 204 Cincinnati, OH 45202-5135		CITY OF CINCINNATI HAMILTON COUNTY SITE SURVEY - NORTH
Drawing: 23-0254 CD WALNUT ST Drawn By: RAS Checked By: MPD Issue Date: 8-16-24 Sheet: C200	Date: Drawn: Item: Revision Description:	Scale: 1" = 10' 0 10 15 Base of Bearing: State Plane NAD83 (2011)

Know what's below.  
 Call before you dig.  
 LOCATION OF ALL EXISTING UTILITIES TO BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION



## LEGEND

- |  |                       |  |                     |
|--|-----------------------|--|---------------------|
|  | -Ex Sanitary M.H.     |  | -Ex Gas Valve       |
|  | -Ex Storm M.H.        |  | -Ex Gas Box         |
|  | -Ex Storm Catch Basin |  | -Ex Tele. M.H.      |
|  | -Ex Storm Clean Out   |  | -Ex Tele. Box       |
|  | -Ex Fire Hydrant      |  | -Ex Sign            |
|  | -Ex Water Valve       |  | -Ex Parking Meter   |
|  | -Ex Fire Connection   |  | -Ex Post            |
|  | -Ex Sipst             |  | -Ex Ballast         |
|  | -Ex Elec. M.H.        |  | -Ex Signal Pole     |
|  | -Ex Elec. Box         |  | -Ex Pull Box        |
|  | -Ex Elec. Meter       |  | -Ex Deciduous Tree  |
|  | -Ex Light Pole        |  | -Ex Right of Way    |
|  | -Ex Utility Pole      |  | -Ex Property Line   |
|  | -Ex Air Conditioning  |  | -Ex Street Car Post |
|  |                       |  | -Ex Street Car Test |



811

Know what's below.  
 Call before you dig.  
 LOCATION OF ALL EXISTING UTILITIES TO BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION

**bayer becker**  
 www.bayerbecker.com  
 1424 Race Street, Suite 204  
 Cincinnati, OH 45202 • 513.634.8151

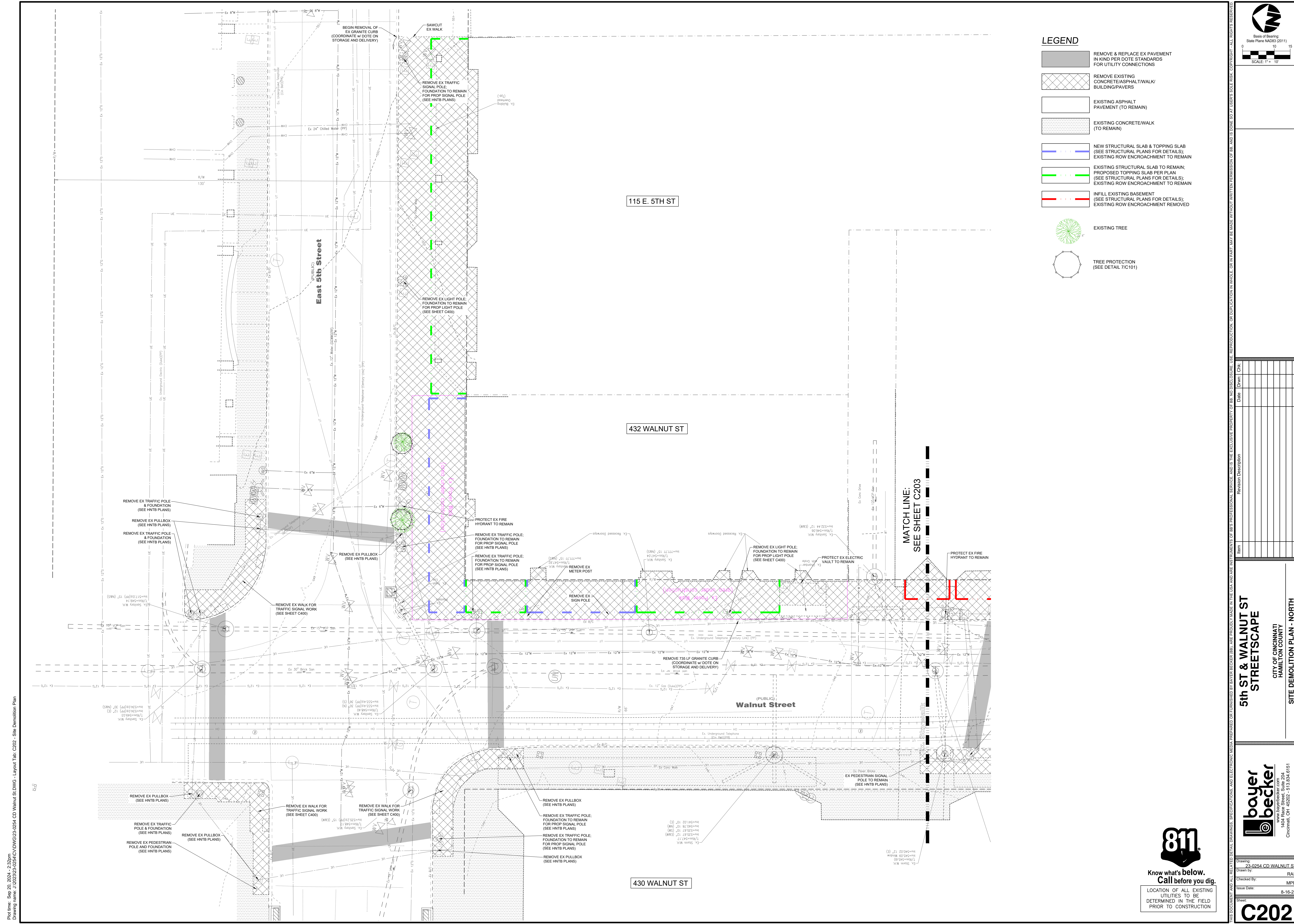
Item	Date	Drawn	Chk.

23-0254 CD WALNUT ST  
 Drawn by: RAS  
 Checked by: MPD  
 Issue Date: 8-16-24  
 Sheet: C201

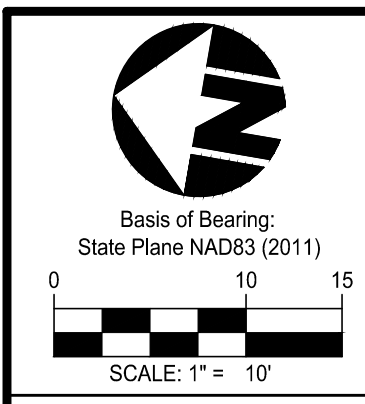
**5th ST & WALNUT ST**  
**STREETSCAPE**  
 CITY OF CINCINNATI  
 HAMILTON COUNTY  
 SITE SURVEY - SOUTH

Scale: 1" = 10'

THIS DOCUMENT AND ALL RELATED DATA, DRAWINGS, SPECIFICATIONS, AND ELECTRONIC MEDIA PREPARED OR FINISHED BY BAYER BECKER (BB), ARE PROPERTY MADE IN THE USA AND ARE INSTRUMENTS OF BEST PROFESSIONAL SERVICE AND IS THE EXCLUSIVE PROPERTY OF BB. NO DISCLOSURE, USE, REPRODUCTION, OR DUPLICATION IN WHOLE OR IN PART MAY BE MADE WITHOUT WRITTEN PERMISSION OF BB, AND IS DONE SO AT USER'S SOLE RISK. COPYRIGHT - ALL RIGHTS RESERVED.



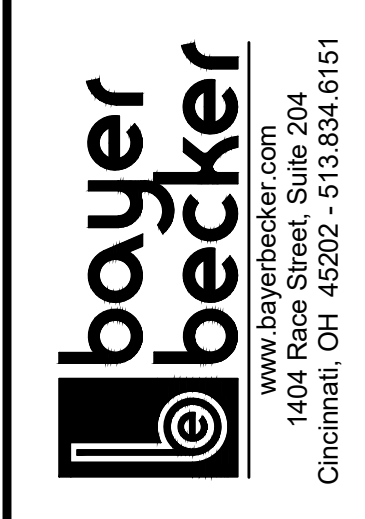
- LEGEND**
- REMOVE & REPLACE EX PAVEMENT IN KIND PER DOTE STANDARDS FOR UTILITY CONNECTIONS
  - REMOVE EXISTING CONCRETE/ASPHALT/WALK/ BUILDING/PAVERS
  - EXISTING ASPHALT PAVEMENT (TO REMAIN)
  - EXISTING CONCRETE/WALK (TO REMAIN)
  - NEW STRUCTURAL SLAB & TOPPING SLAB (SEE STRUCTURAL PLANS FOR DETAILS); EXISTING ROW ENCROACHMENT TO REMAIN
  - EXISTING STRUCTURAL SLAB TO REMAIN, PROPOSED TOPPING SLAB PER PLAN (SEE STRUCTURAL PLANS FOR DETAILS); EXISTING ROW ENCROACHMENT TO REMAIN
  - INFILL EXISTING BASEMENT (SEE STRUCTURAL PLANS FOR DETAILS); EXISTING ROW ENCROACHMENT REMOVED
  - EXISTING TREE
  - TREE PROTECTION (SEE DETAIL 7/C101)



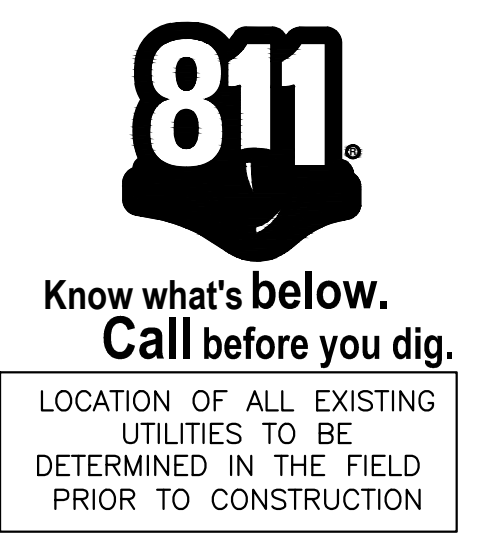
Date	Drawn	Chk.	Revision Description

Plot file: Sep 20, 2024, 2:32pm  
 Drawing name: J:\2023\23-0254\CD\DWG\C202 - Site Demolition Plan

**5th ST & WALNUT ST  
STREETSCAPE**  
 CITY OF CINCINNATI  
 HAMILTON COUNTY  
**SITE DEMOLITION PLAN - NORTH**


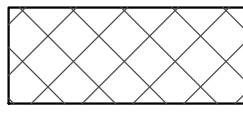
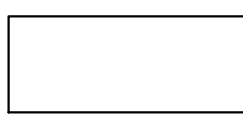
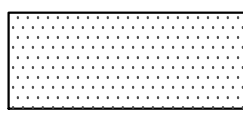
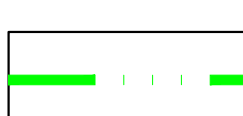


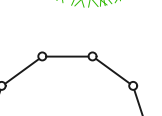


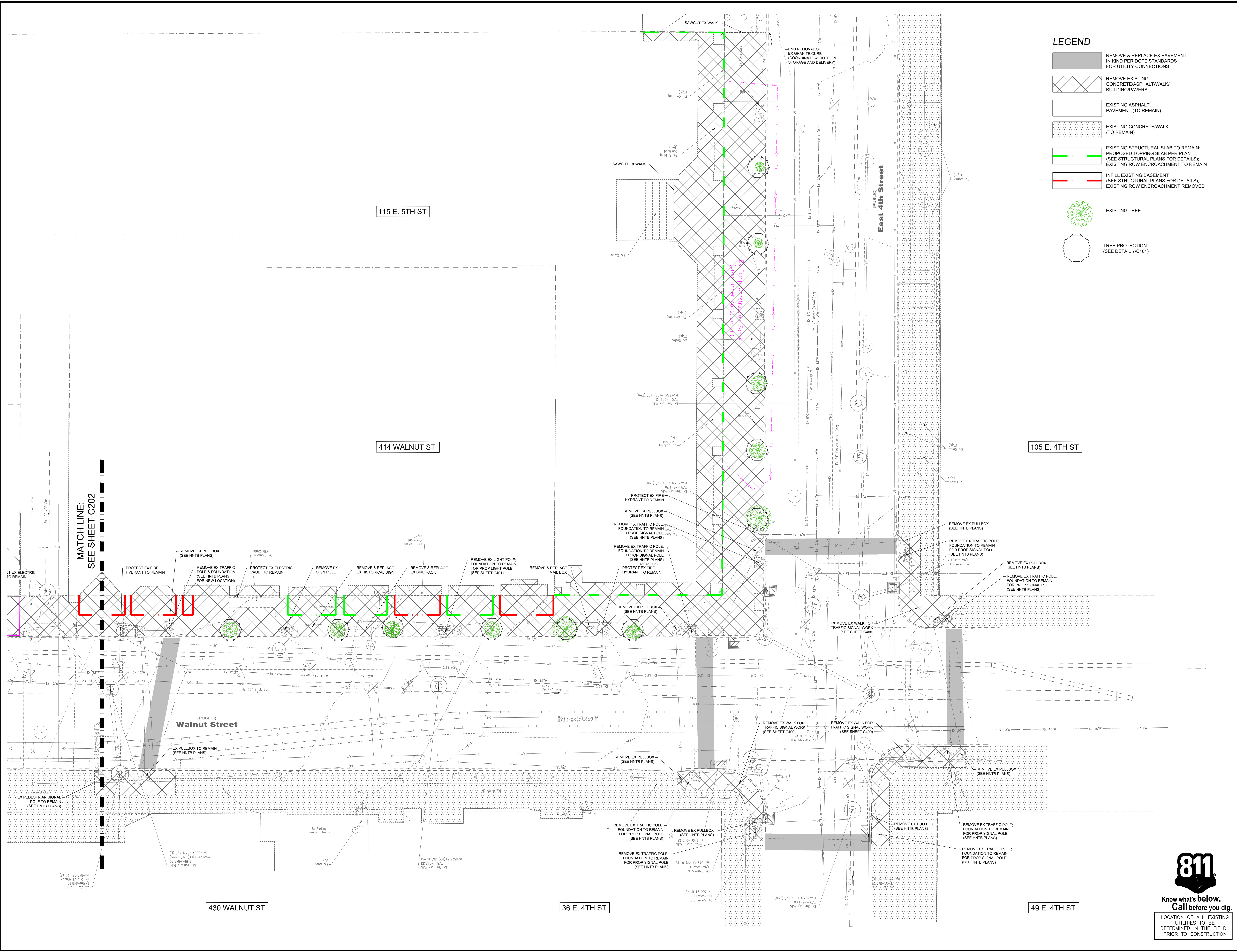
Drawing: 23-0254 CD WALNUT ST  
 Drawn by: RAS  
 Checked by: MPD  
 Issue Date: 8-16-24  
 Sheet:



C202

**LEGEND**

-  REMOVE & REPLACE EX PAVEMENT IN KIND PER DOTE STANDARDS FOR UTILITY CONNECTIONS
-  REMOVE EXISTING CONCRETE/ASPHALT/WALK/ BUILDING/PAVERS
-  EXISTING ASPHALT PAVEMENT (TO REMAIN)
-  EXISTING CONCRETE/WALK (TO REMAIN)
-  EXISTING STRUCTURAL SLAB TO REMAIN; PROPOSED TOPPING SLAB PER PLAN (SEE STRUCTURAL PLANS FOR DETAILS); EXISTING ROW ENCROACHMENT TO REMAIN
-  INFILL EXISTING BASEMENT (SEE STRUCTURAL PLANS FOR DETAILS); EXISTING ROW ENCROACHMENT REMOVED
-  EXISTING TREE
-  TREE PROTECTION (SEE DETAIL 7/C101)



Date	Dwn	Ck	Revision Description

**5th ST & WALNUT ST  
STREETSCAPE**  
CITY OF CINCINNATI  
HAMILTON COUNTY  
SITE DEMOLITION PLAN - SOUTH

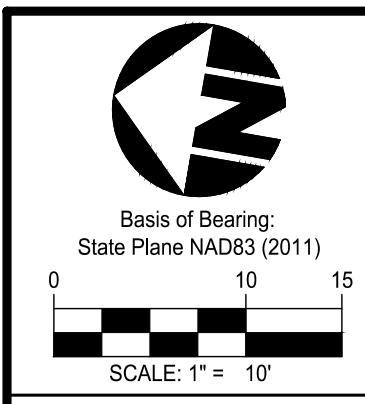
Drawing: 23-0254 CD WALNUT ST  
Drawn by: RAS  
Checked by: MPD  
Issue Date: 8-16-24  
Sheet:

C203

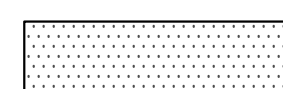





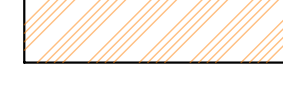
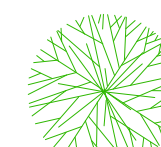
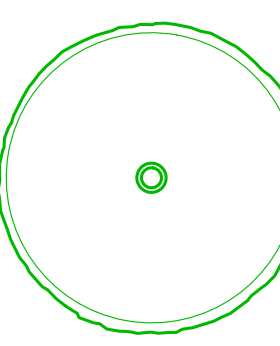


LOCATION OF ALL EXISTING UTILITIES TO BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION

Plotfile: Sep 20, 2024, 2:38pm  
Drawing name: J:\2023\23-0254\CD\DWG\23-0254-CD-Walnut-St-C300 - Streetscape Materials Plan

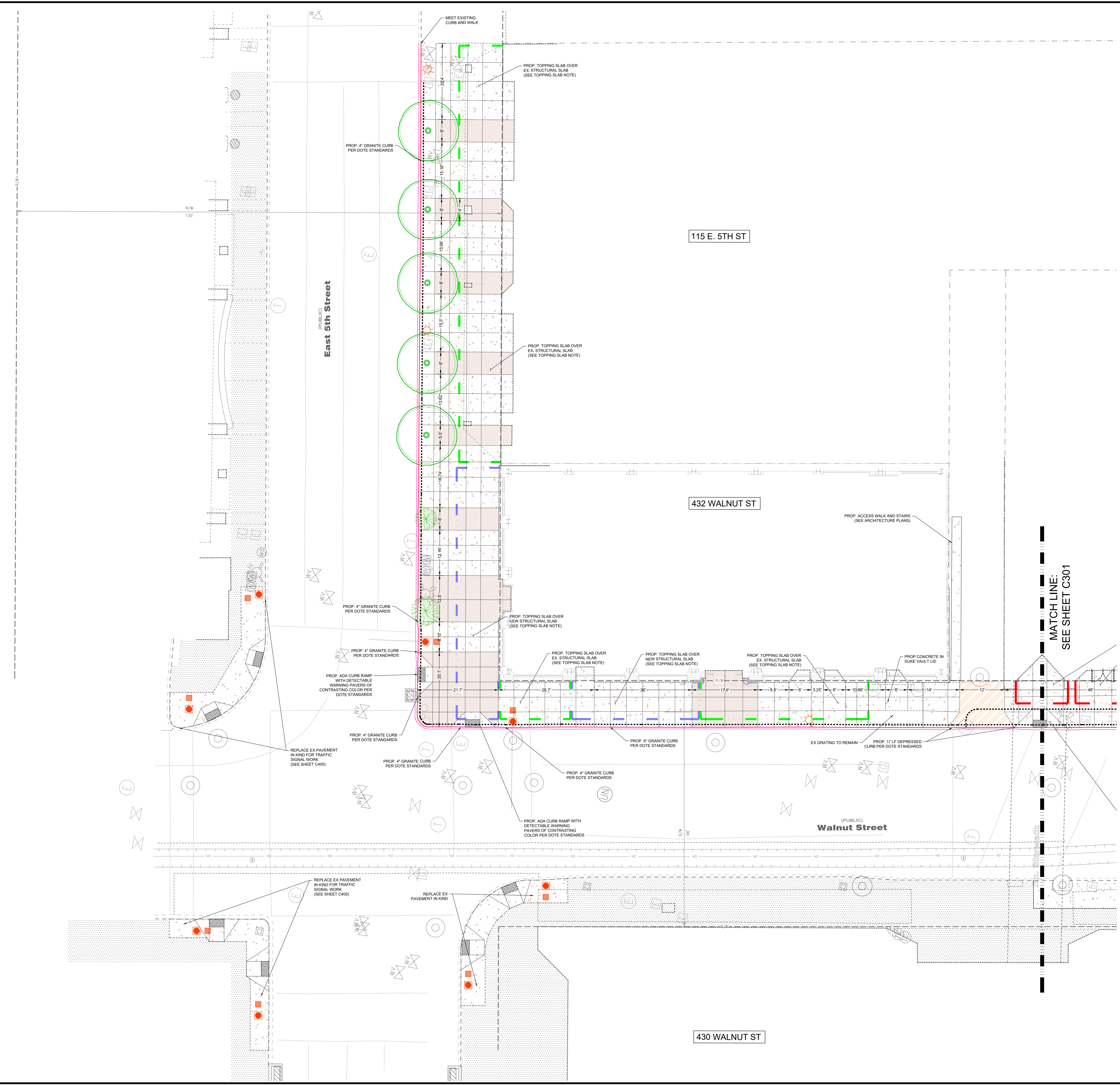


### LEGEND

-  EXISTING CONCRETE/WALK (TO REMAIN)
-  PROPOSED CONCRETE WALK: (BROOM FINISH)
-  PROPOSED CONCRETE WALK: (EXPOSED AGGREGATE FINISH)
-  NEW STRUCTURAL SLAB & TOPPING SLAB (SEE STRUCTURAL PLANS FOR DETAILS); EXISTING ROW ENCROACHMENT TO REMAIN
-  EXISTING STRUCTURAL SLAB TO REMAIN; PROPOSED TOPPING SLAB PER PLAN (SEE STRUCTURAL PLANS FOR DETAILS); EXISTING ROW ENCROACHMENT TO REMAIN
-  INFILL EXISTING BASEMENT (SEE STRUCTURAL PLANS FOR DETAILS); EXISTING ROW ENCROACHMENT REMOVED
-  PROPOSED CONCRETE APRON PER DOTE ACC NO. 21436
-  EXISTING TREE
-  PROPOSED TREE (FINAL SPECIFICATION BY URBAN FORESTRY)

### TOPPING SLAB NOTE

FOR AREAS WHERE THE TOPPING SLAB WILL BE LESS THAN 4" THICK DUE TO THE HEIGHT OF THE EXISTING OR PROPOSED STRUCTURAL SLAB, A POLYMER-REINFORCED CONCRETE MIX SHALL BE USED. THE MIX SHALL INCLUDE FIBER FORCE 600' FIBERS WITH A DOSAGE RATE OF 4 LBS/CY. THE MIX SHALL BE AIR ENTRAINED (6% +/- 1.5%) WITH A COMPRESSIVE STRENGTH OF 4500 PSI AND A MAX W/C RATIO OF 0.45. (SUBMIT SHOP DRAWINGS FOR APPROVAL).



Item	Date	Drawn	Chk.	Revision Description

**5th ST & WALNUT ST  
STREETScape**

CITY OF CINCINNATI  
HAMILTON COUNTY

**STREETScape MATERIALS PLAN - NORTH**

**bayer  
becker**

www.bayerbecker.com  
1404 Race Street, Suite 204  
Cincinnati, OH 45202 • 513.634.6151

Drawing: 23-0254 CD WALNUT ST  
Drawn by: RAS  
Checked by: MPD  
Issue Date: 8-16-24  
Sheet:

**811**

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

LOCATION OF ALL EXISTING UTILITIES TO BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION

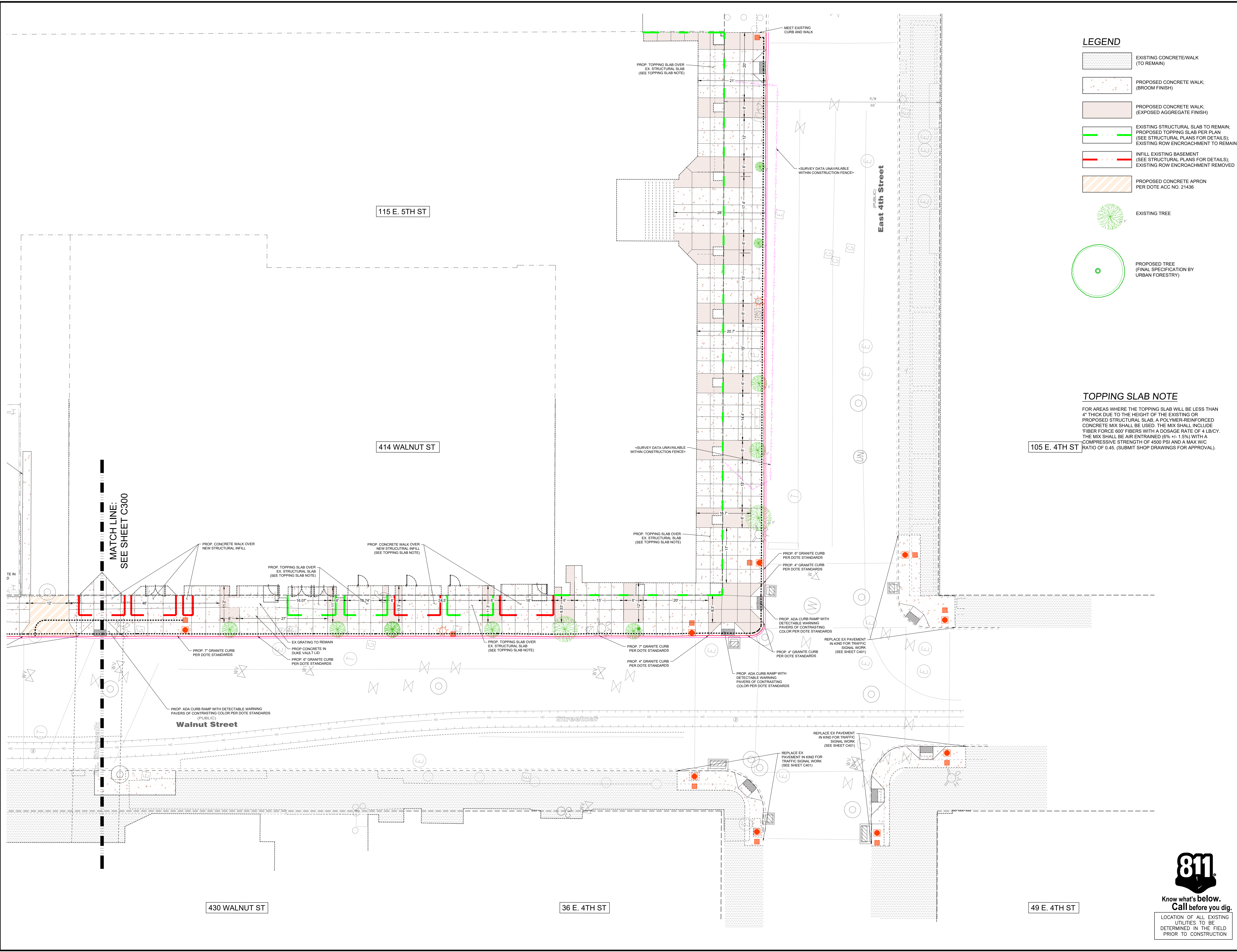
C300

### LEGEND

- EXISTING CONCRETE/WALK (TO REMAIN)
- PROPOSED CONCRETE WALK; (BROOM FINISH)
- PROPOSED CONCRETE WALK; (EXPOSED AGGREGATE FINISH)
- EXISTING STRUCTURAL SLAB TO REMAIN; PROPOSED TOPPING SLAB PER PLAN (SEE STRUCTURAL PLANS FOR DETAILS); EXISTING ROW ENCROACHMENT TO REMAIN
- INFILL EXISTING BASEMENT (SEE STRUCTURAL PLANS FOR DETAILS); EXISTING ROW ENCROACHMENT REMOVED
- PROPOSED CONCRETE APRON PER DOT ACC NO. 21436
- EXISTING TREE
- PROPOSED TREE (FINAL SPECIFICATION BY URBAN FORESTRY)

### TOPPING SLAB NOTE

FOR AREAS WHERE THE TOPPING SLAB WILL BE LESS THAN 4" THICK DUE TO THE HEIGHT OF THE EXISTING OR PROPOSED STRUCTURAL SLAB, A POLYMER-REINFORCED CONCRETE MIX SHALL BE USED. THE MIX SHALL INCLUDE FIBER FORTRE 600 FIBERS WITH A DOSAGE RATE OF 4 LB/CY. THE MIX SHALL BE AIR ENTRAINED (6% +/- 1.5%) WITH A COMPRESSIVE STRENGTH OF 4500 PSI AND A MAX W/C RATIO OF 0.45. (SUBMIT SHOP DRAWINGS FOR APPROVAL).



MATCH LINE:  
SEE SHEET C300

Date	Drawn	Chk.

Item	Revision Description

**5th ST & WALNUT ST**  
**STREETSCAPE**

CITY OF CINCINNATI  
 HAMILTON COUNTY

**STREETSCAPE MATERIALS PLAN - SOUTH**

www.bayerbecker.com  
 1404 Race Street, Suite 204  
 Cincinnati, OH 45202 • 513.634.6151

811

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

LOCATION OF ALL EXISTING UTILITIES TO BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION

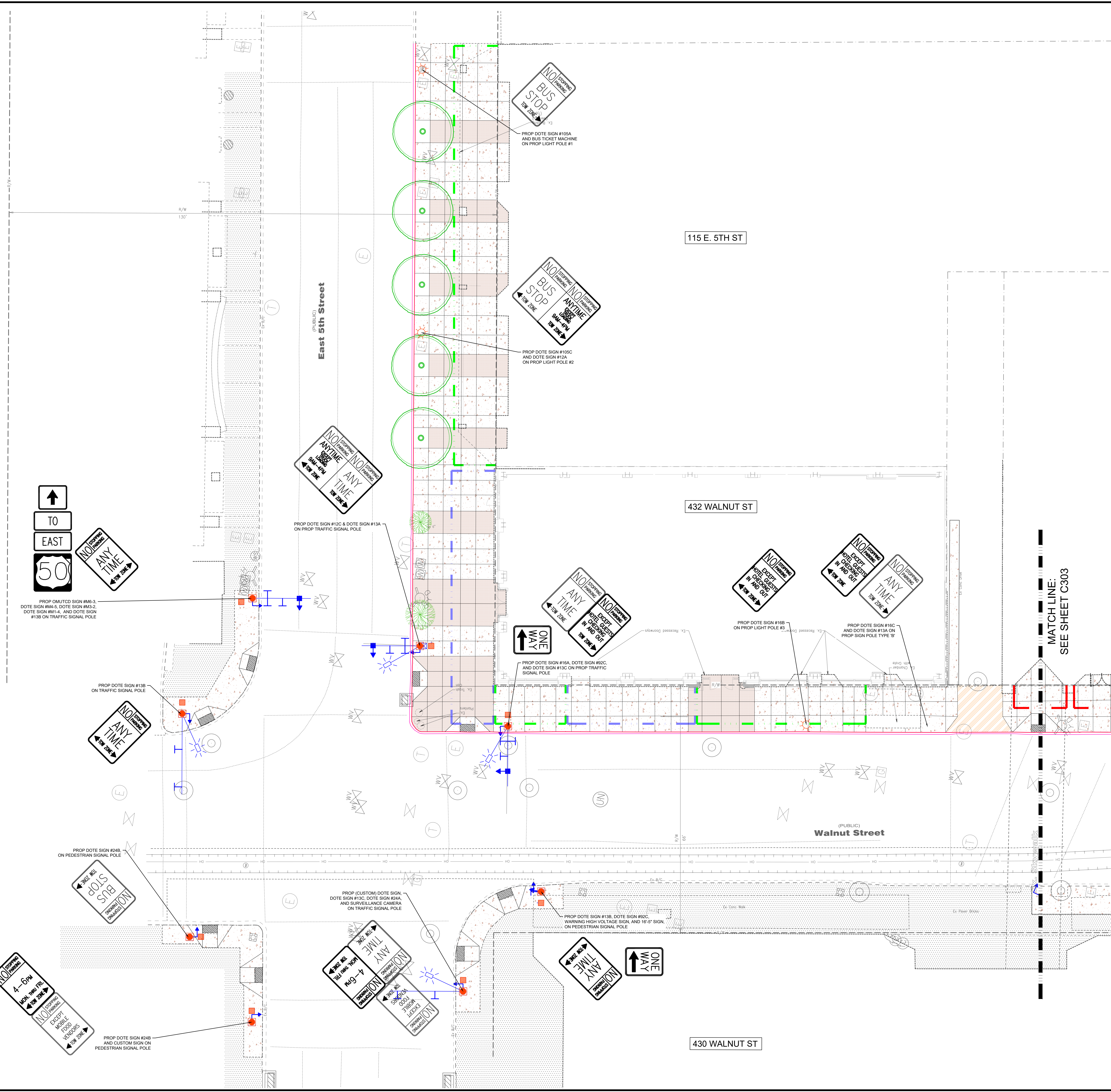
C301





Scale: 1" = 10'

- LEGEND**
- EXISTING CONCRETE/WALK (TO REMAIN)
- PROPOSED CONCRETE WALK: (BROOM FINISH)
- PROPOSED CONCRETE WALK: (EXPOSED AGGREGATE FINISH)
- NEW STRUCTURAL SLAB & TOPPING SLAB (SEE STRUCTURAL PLANS FOR DETAILS); EXISTING ROW ENCROACHMENT TO REMAIN
- EXISTING STRUCTURAL SLAB TO REMAIN; PROPOSED TOPPING SLAB PER PLAN (SEE STRUCTURAL PLANS FOR DETAILS); EXISTING ROW ENCROACHMENT TO REMAIN
- INFILL EXISTING BASEMENT (SEE STRUCTURAL PLANS FOR DETAILS); EXISTING ROW ENCROACHMENT REMOVED
- PROPOSED CONCRETE APRON PER DOTE ACC NO. 21436
- EXISTING TREE
- PROPOSED TREE (FINAL SPECIFICATION BY URBAN FORESTRY)

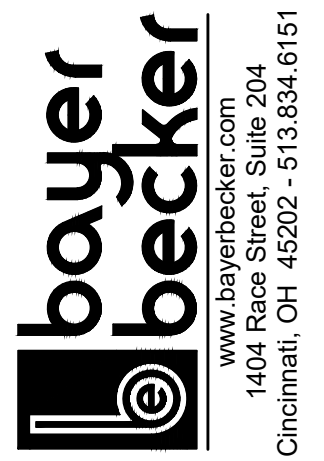


Item	Revision Description	Date	Dwnt	Chk

5th ST & WALNUT ST STREETScape

CITY OF CINCINNATI  
HAMILTON COUNTY

TRAFFIC CONTROL PLAN - NORTH



811  
Know what's below.  
Call before you dig.

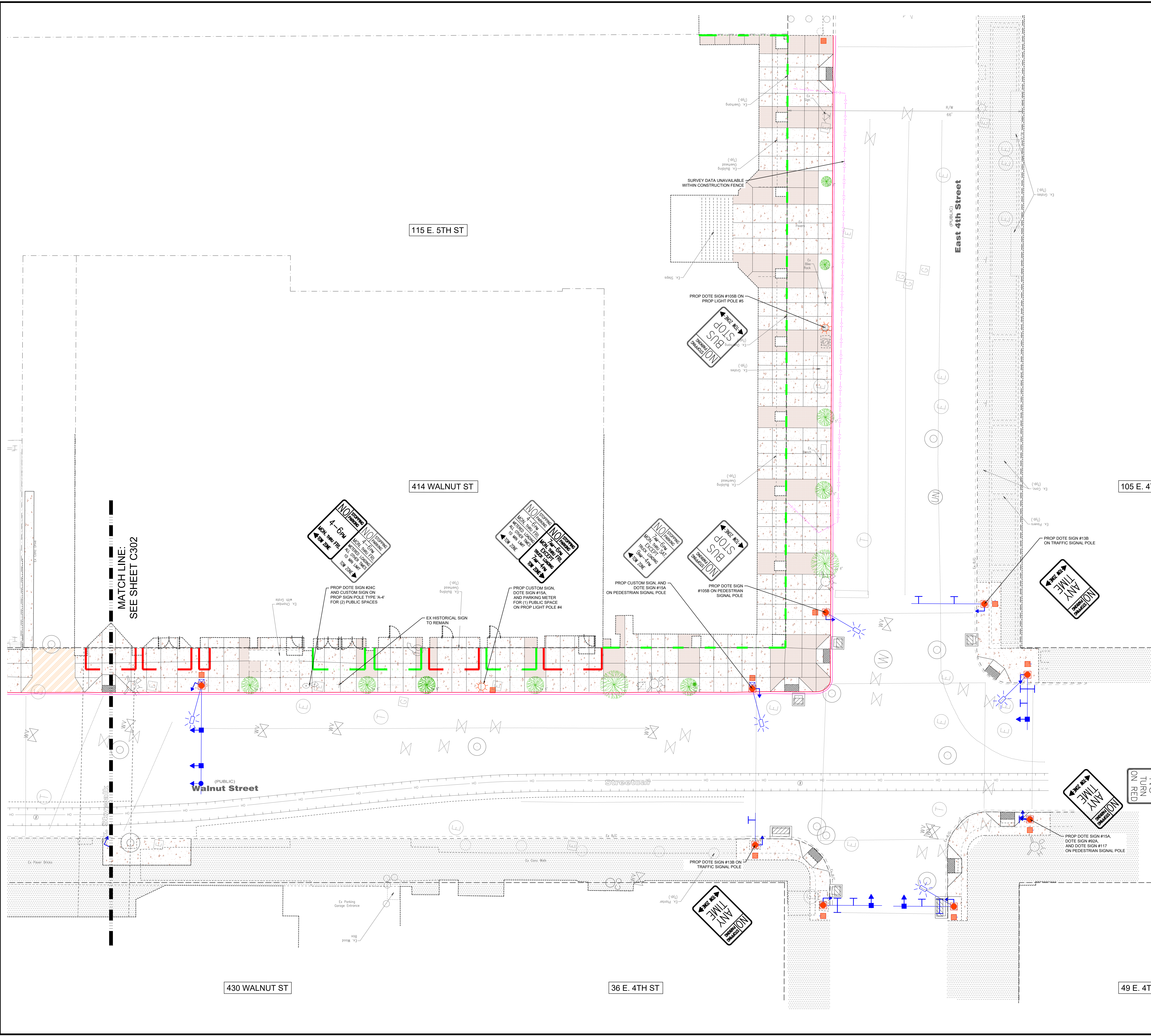
LOCATION OF ALL EXISTING UTILITIES TO BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION

Plot time: Sep 20, 2024, 2:34pm  
Drawing name: J:\2023\23-0254\CD\WALNUT ST.DWG - Layout Tab: C302 - Traffic Control Plan

Drawing: 23-0254 CD WALNUT ST  
Drawn by: RAS  
Checked by: MPD  
Issue Date: 8-16-24  
Sheet: C302

**LEGEND**

- EXISTING CONCRETE/WALK (TO REMAIN)
- PROPOSED CONCRETE WALK: (BROOM FINISH)
- PROPOSED CONCRETE WALK: (EXPOSED AGGREGATE FINISH)
- EXISTING STRUCTURAL SLAB TO REMAIN, PROPOSED TOPPING SLAB PER PLAN (SEE STRUCTURAL PLANS FOR DETAILS); EXISTING ROW ENCROACHMENT TO REMAIN
- INFILL EXISTING BASEMENT (SEE STRUCTURAL PLANS FOR DETAILS); EXISTING ROW ENCROACHMENT TO REMAIN
- PROPOSED CONCRETE APRON PER DOTE ACC NO. 21436
- EXISTING TREE
- PROPOSED TREE (FINAL SPECIFICATION BY URBAN FORESTRY)



**5th ST & WALNUT ST STREETScape**  
CITY OF CINCINNATI  
HAMILTON COUNTY  
TRAFFIC CONTROL PLAN - SOUTH

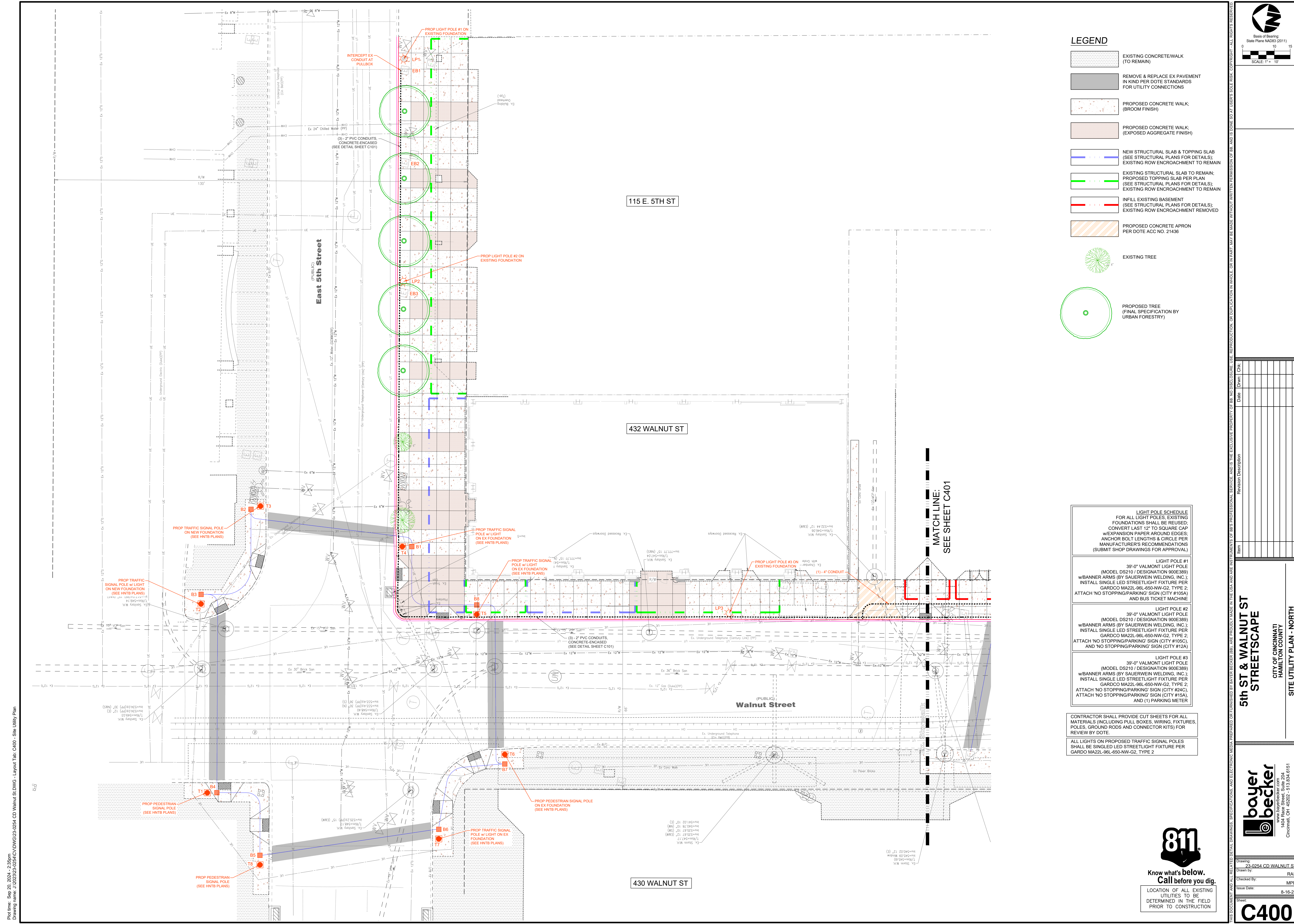
Item	Revision Description	Date	Dwnt	Chk

**bayer becker**  
www.bayerbecker.com  
1404 Race Street, Suite 204  
Cincinnati, OH 45202 - 513.634.8151

Drawing: 23-0254 CD WALNUT ST  
Drawn by: RAS  
Checked by: MPD  
Issue Date: 8-16-24  
Sheet: **C303**

Plot time: Sep 20, 2024, 2:55pm  
Drawing name: J:\2023\23-0254\CD\DWG\3-0254-CD\DWG\3-0254-CD Walnut St.DWG - Layout Tab: C302 - Traffic Control Plan

**811**  
Know what's below.  
Call before you dig.  
LOCATION OF ALL EXISTING UTILITIES TO BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION



**LEGEND**

- EXISTING CONCRETE/WALK (TO REMAIN)
- REMOVE & REPLACE EX PAVEMENT IN KIND PER DOTE STANDARDS FOR UTILITY CONNECTIONS
- PROPOSED CONCRETE WALK: (BROOM FINISH)
- PROPOSED CONCRETE WALK: (EXPOSED AGGREGATE FINISH)
- NEW STRUCTURAL SLAB & TOPPING SLAB (SEE STRUCTURAL PLANS FOR DETAILS); EXISTING ROW ENCROACHMENT TO REMAIN
- EXISTING STRUCTURAL SLAB TO REMAIN; PROPOSED TOPPING SLAB PER PLAN (SEE STRUCTURAL PLANS FOR DETAILS); EXISTING ROW ENCROACHMENT TO REMAIN
- INFILL EXISTING BASEMENT (SEE STRUCTURAL PLANS FOR DETAILS); EXISTING ROW ENCROACHMENT REMOVED
- PROPOSED CONCRETE APRON PER DOTE ACC NO. 21436
- EXISTING TREE
- PROPOSED TREE (FINAL SPECIFICATION BY URBAN FORESTRY)

**LIGHT POLE SCHEDULE**  
FOR ALL LIGHT POLES, EXISTING FOUNDATIONS SHALL BE REUSED; CONVERT LAST 12" TO SQUARE CAP W/ EXPANSION PAPER AROUND EDGES; ANCHOR BOLT LENGTHS & CIRCLE PER MANUFACTURER'S RECOMMENDATIONS (SUBMIT SHOP DRAWINGS FOR APPROVAL)

**LIGHT POLE #1**  
39'-0" VALMONT LIGHT POLE (MODEL DS210 / DESIGNATION 900E389)  
w/BANNER ARMS (BY SAUERWEIN WELDING, INC.);  
INSTALL SINGLE LED STREETLIGHT FIXTURE PER GARDCO MA22L-96L-650-NW-G2, TYPE 2;  
ATTACH 'NO STOPPING/PARKING' SIGN (CITY #105A) AND BUS TICKET MACHINE

**LIGHT POLE #2**  
39'-0" VALMONT LIGHT POLE (MODEL DS210 / DESIGNATION 900E389)  
w/BANNER ARMS (BY SAUERWEIN WELDING, INC.);  
INSTALL SINGLE LED STREETLIGHT FIXTURE PER GARDCO MA22L-96L-650-NW-G2, TYPE 2;  
ATTACH 'NO STOPPING/PARKING' SIGN (CITY #105C), AND 'NO STOPPING/PARKING' SIGN (CITY #12A)

**LIGHT POLE #3**  
39'-0" VALMONT LIGHT POLE (MODEL DS210 / DESIGNATION 900E389)  
w/BANNER ARMS (BY SAUERWEIN WELDING, INC.);  
INSTALL SINGLE LED STREETLIGHT FIXTURE PER GARDCO MA22L-96L-650-NW-G2, TYPE 2;  
ATTACH 'NO STOPPING/PARKING' SIGN (CITY #24C), ATTACH 'NO STOPPING/PARKING' SIGN (CITY #15A), AND (1) PARKING METER

CONTRACTOR SHALL PROVIDE CUT SHEETS FOR ALL MATERIALS (INCLUDING PULL BOXES, WIRING, FIXTURES, POLES, GROUND RODS AND CONNECTOR KITS) FOR REVIEW BY DOTE.

ALL LIGHTS ON PROPOSED TRAFFIC SIGNAL POLES SHALL BE SINGLED LED STREETLIGHT FIXTURE PER GARDCO MA22L-96L-650-NW-G2, TYPE 2

**811**  
Know what's below.  
Call before you dig.

LOCATION OF ALL EXISTING UTILITIES TO BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION

Base of Bearing: State Plane NAD83 (2011)  
SCALE: 1" = 10'

Date	Drawn	Chk.	Revision Description

**5th ST & WALNUT ST STREETScape**  
CITY OF CINCINNATI  
HAMILTON COUNTY  
SITE UTILITY PLAN - NORTH

**bayer becker**  
www.bayerbecker.com  
1404 Race Street, Suite 204  
Cincinnati, OH 45202 • 513.634.8151

Drawing: 23-0254 CD WALNUT ST  
Drawn by: RAS  
Checked by: MPD  
Issue Date: 8-16-24  
Sheet: **C400**

Plot file: Sep 20, 2024, 2:35pm  
Drawing name: J:\2023\23-0254\CD\DWG\23-0254 CD Walnut St.DWG - Layout Tab: C400 - Site Utility Plan

- LEGEND**
- EXISTING CONCRETE/WALK (TO REMAIN)
  - REMOVE & REPLACE EX PAVEMENT IN KIND PER DOTE STANDARDS FOR UTILITY CONNECTIONS
  - PROPOSED CONCRETE WALK; (BROOM FINISH)
  - PROPOSED CONCRETE WALK; (EXPOSED AGGREGATE FINISH)
  - EXISTING STRUCTURAL SLAB TO REMAIN; PROPOSED TOPPING SLAB PER PLAN (SEE STRUCTURAL PLANS FOR DETAILS); EXISTING ROW ENCROACHMENT TO REMAIN
  - INFILL EXISTING BASEMENT (SEE STRUCTURAL PLANS FOR DETAILS); EXISTING ROW ENCROACHMENT REMOVED
  - PROPOSED CONCRETE APRON PER DOTE ACC NO. 21436
  - EXISTING TREE
  - PROPOSED TREE (FINAL SPECIFICATION BY URBAN FORESTRY)

**LIGHT POLE SCHEDULE**  
 FOR ALL LIGHT POLES EXISTING FOUNDATIONS SHALL BE REUSED; CONVERT LAST 12" TO SQUARE CAP w/EXPANSION PAPER AROUND EDGES; ANCHOR BOLT LENGTHS & CIRCLE PER MANUFACTURER'S RECOMMENDATIONS (SUBMIT SHOP DRAWINGS FOR APPROVAL)

Light Pole #	Description
Light Pole #4	39'-0" VALMONT LIGHT POLE (MODEL DS210 / DESIGNATION 900E389) w/BANNER ARMS (BY SAUERWEIN WELDING, INC.); INSTALL SINGLE LED STREETLIGHT FIXTURE PER GARDCO MA22L-96L-650-NW-G2, TYPE 2; ATTACH CUSTOM NO STOPPING/PARKING SIGN (CITY #15A), AND (1) PARKING METER
Light Pole #5	39'-0" VALMONT LIGHT POLE (MODEL DS210 / DESIGNATION 900E389) w/BANNER ARMS (BY SAUERWEIN WELDING, INC.); INSTALL SINGLE LED STREETLIGHT FIXTURE PER GARDCO MA22L-96L-650-NW-G2, TYPE 2; ATTACH NO STOPPING/PARKING SIGN (CITY #105B)

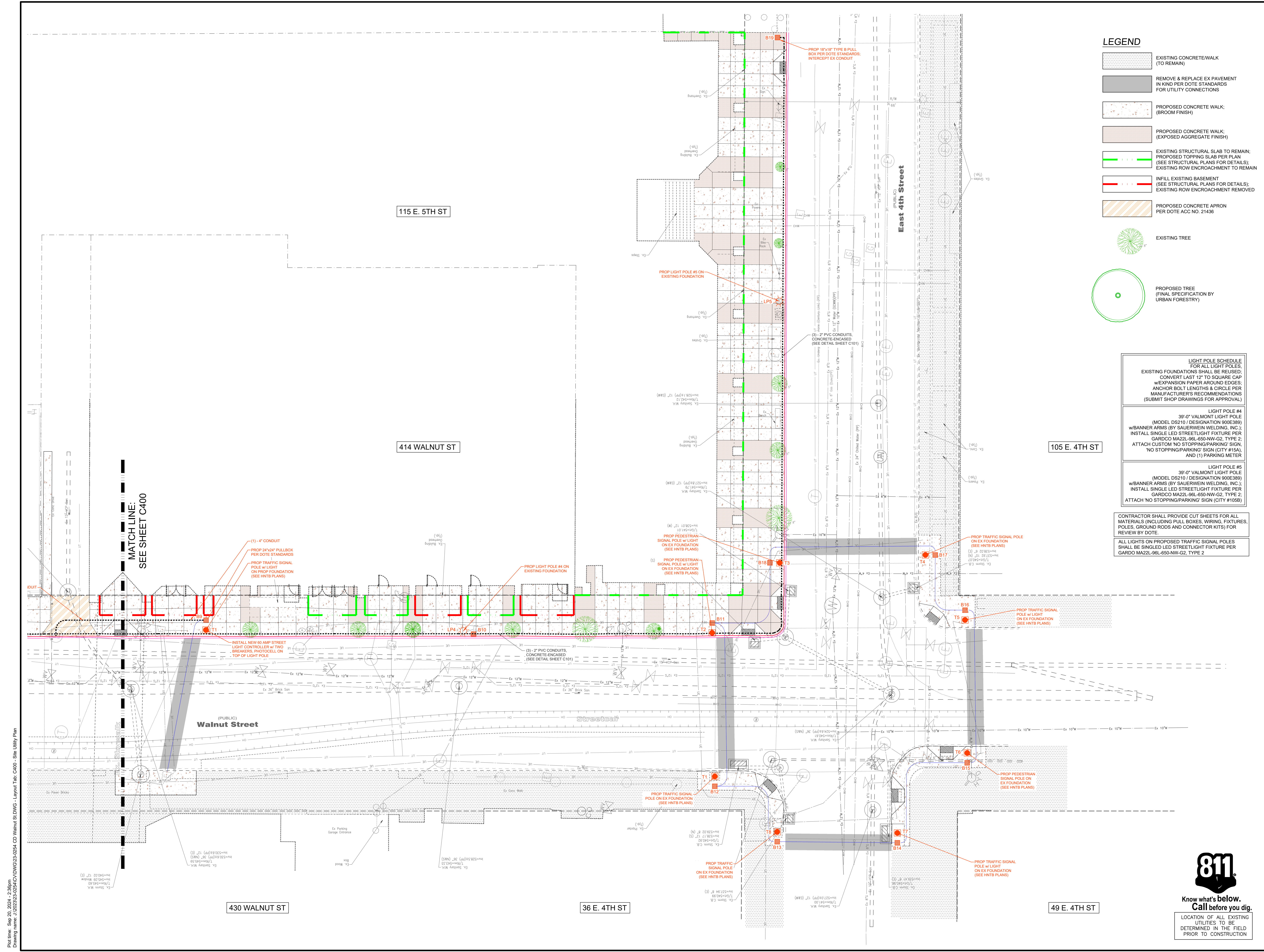
CONTRACTOR SHALL PROVIDE CUT SHEETS FOR ALL MATERIALS (INCLUDING PULL BOXES, WIRING, FIXTURES, POLES, GROUND RODS AND CONNECTOR KITS) FOR REVIEW BY DOTE.

ALL LIGHTS ON PROPOSED TRAFFIC SIGNAL POLES SHALL BE SINGLED LED STREETLIGHT FIXTURE PER GARDCO MA22L-96L-650-NW-G2, TYPE 2

**811**  
 Know what's below.  
 Call before you dig.

LOCATION OF ALL EXISTING UTILITIES TO BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION

**5th ST & WALNUT ST STREETScape**  
 CITY OF CINCINNATI  
 HAMILTON COUNTY  
 SITE UTILITY PLAN - SOUTH



115 E. 5TH ST

414 WALNUT ST

105 E. 4TH ST

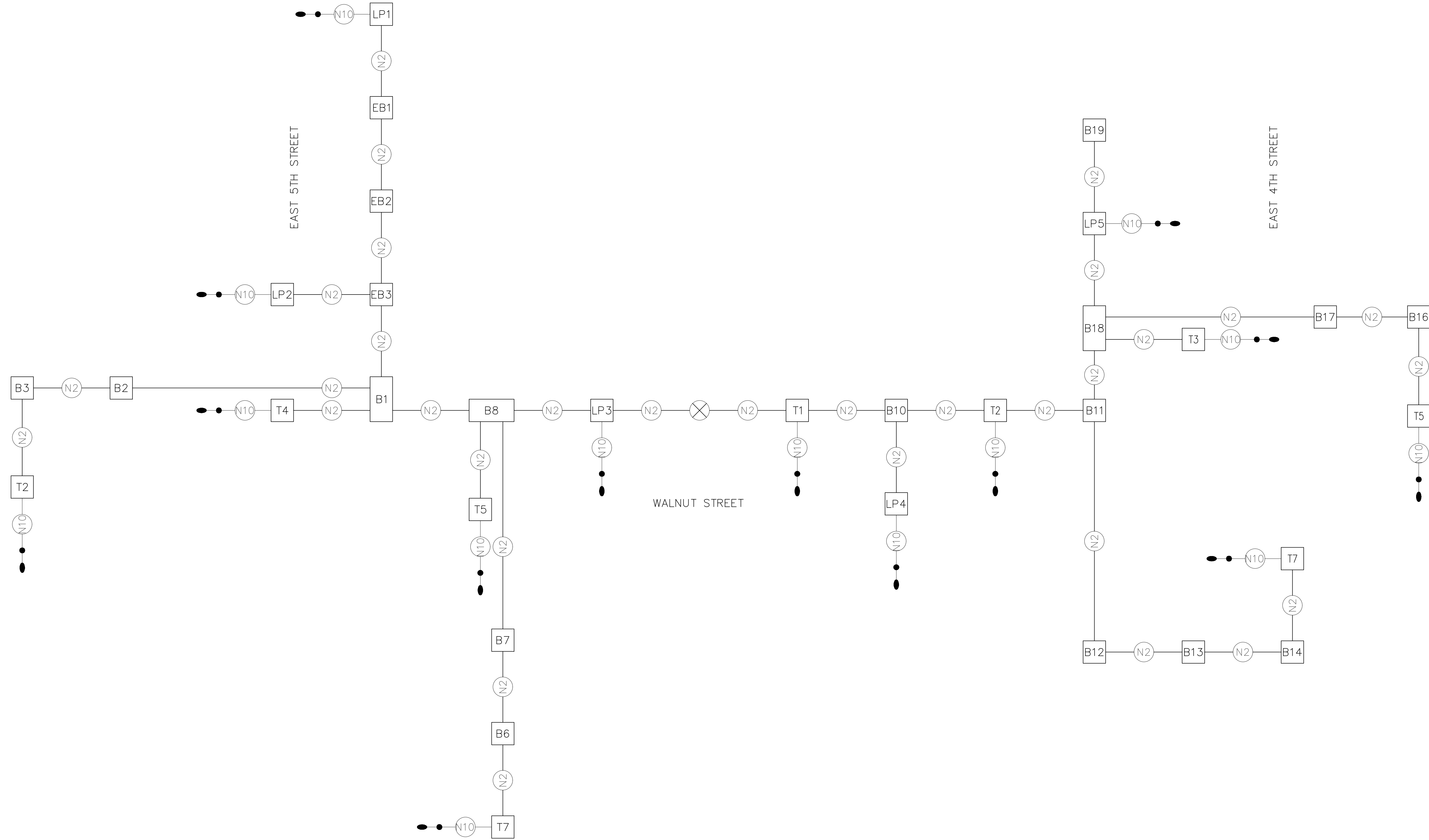
MATCH LINE:  
SEE SHEET C400

430 WALNUT ST

36 E. 4TH ST

49 E. 4TH ST

Plot Date: Sep 30, 2024, 2:58pm  
 Drawing Name: I:\2023\23-0254\CD\DWG\23-0254-CD WALNUT ST - Layout Tab: C400 - Site Utility Plan



LEGEND

	TRAFFIC SIGNAL, 3 UNIT, 12"		SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
	LUMINAIRE		3 - NO. 2 AWG DISTRIBUTION CABLES
	PEDESTRIAN SIGNAL		NO. 10 AWG POLE & BRACKET CABLE
	PEDESTRIAN PUSH BUTTON		POWER SOURCE
	ILLUMINATED SIGN		POWER CABLE, 2 CONDUCTOR, NO. 4 AWG

Plot Date: Sep 20, 2024, 2:38pm  
 Drawing Name: J:\2023\23-0254\CD\DWG\3-0254-CD-Walnut-St-DWG - Layout Tab: C400 - Site Utility Plan

<b>5th ST &amp; WALNUT ST STREETSCAPE</b> CITY OF CINCINNATI HAMILTON COUNTY <b>WIRING DIAGRAM - LIGHTING</b>				
Drawing:	23-0254-CD-WALNUT ST	Date:		Dwn/Chk:
Drawn by:	CPT	Revision Description:		
Checked by:	MPD	Item:		
Issue Date:	9-3-24	Revision:		
Sheet:	<b>C402</b>			

THE DOCUMENT AND ALL RELATED DETAIL DRAWINGS, SPECIFICATIONS, AND ELECTRONIC MEDIA PREPARED OR FINISHED BY BAYER BECKER (BB) ARE PROPERTY OF BB. NO DISCLOSURE, REPRODUCTION, OR DUPLICATION IN WHOLE OR IN PART MAY BE MADE WITHOUT WRITTEN PERMISSION OF BB. AND IS DONE SO AT USER'S SOLE RISK. COPYRIGHT - ALL RIGHTS RESERVED.

### LEGEND

	EXISTING CONCRETE/WALK (TO REMAIN)
	PROPOSED CONCRETE WALK (BROOM FINISH)
	PROPOSED CONCRETE WALK (EXPOSED AGGREGATE FINISH)
	PROPOSED CONCRETE APRON PER DOTE ACC NO. 21436
	EXISTING TREE
	PROPOSED TREE (FINAL SPECIFICATION BY URBAN FORESTRY)

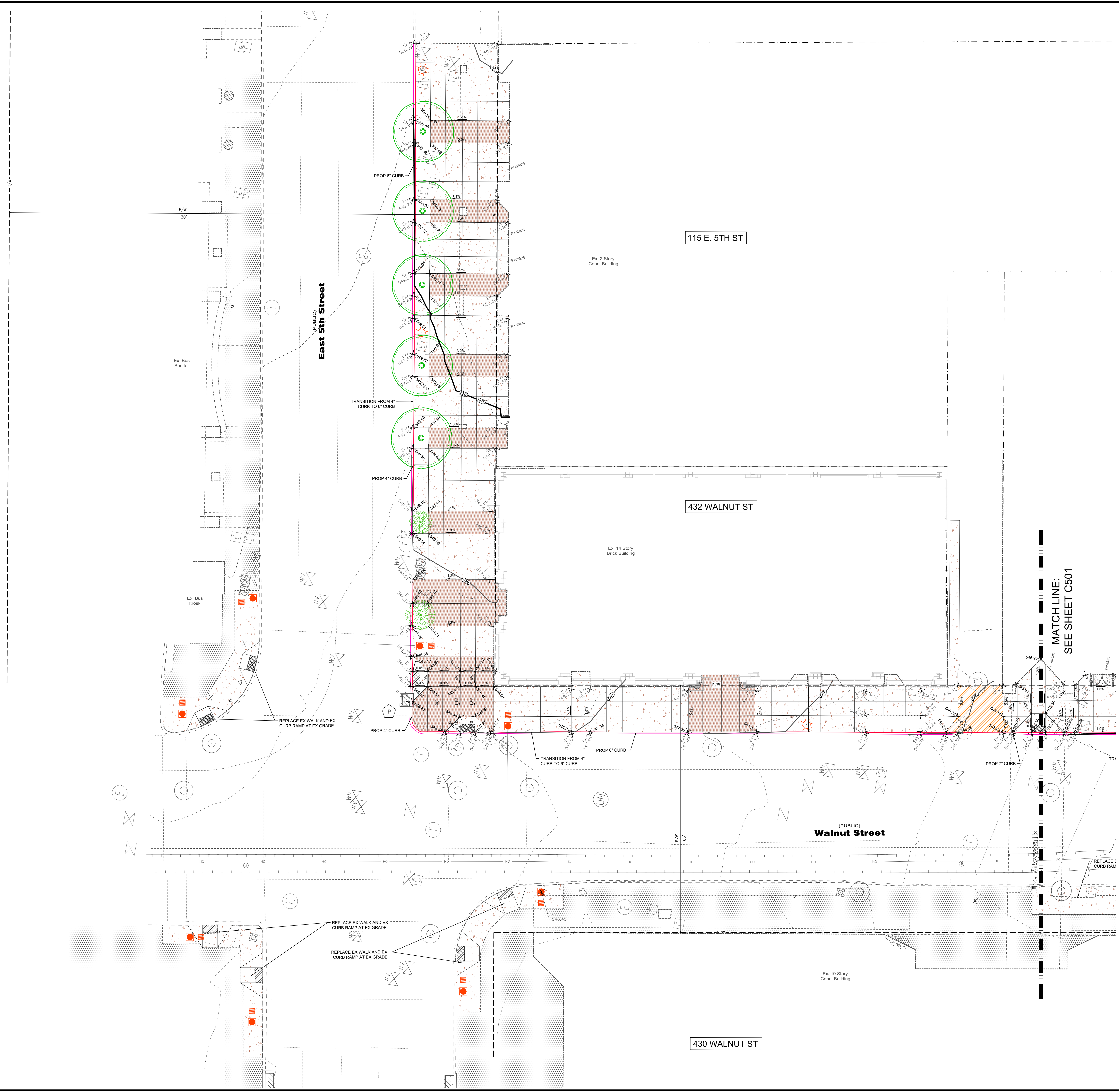
### EROSION CONTROL LEGEND

	SEEDING & MULCHING (SEE EROSION CONTROL DETAILS, SHEET C103)
	SILT FENCE (SEE EROSION CONTROL DETAILS, SHEET C102)
	INLET PROTECTION (SEE EROSION CONTROL DETAILS, SHEET C102)
	TEMPORARY CONSTRUCTION ENTRANCE (SEE EROSION CONTROL DETAILS, SHEET C102)
	EMERGENCY STORM ROUTE

NOTE: CONTRACTOR TO ALSO PROVIDE CONCRETE WASHOUT AND STAGING AREA, AND COORDINATE LOCATIONS WITH SITE INSPECTOR.

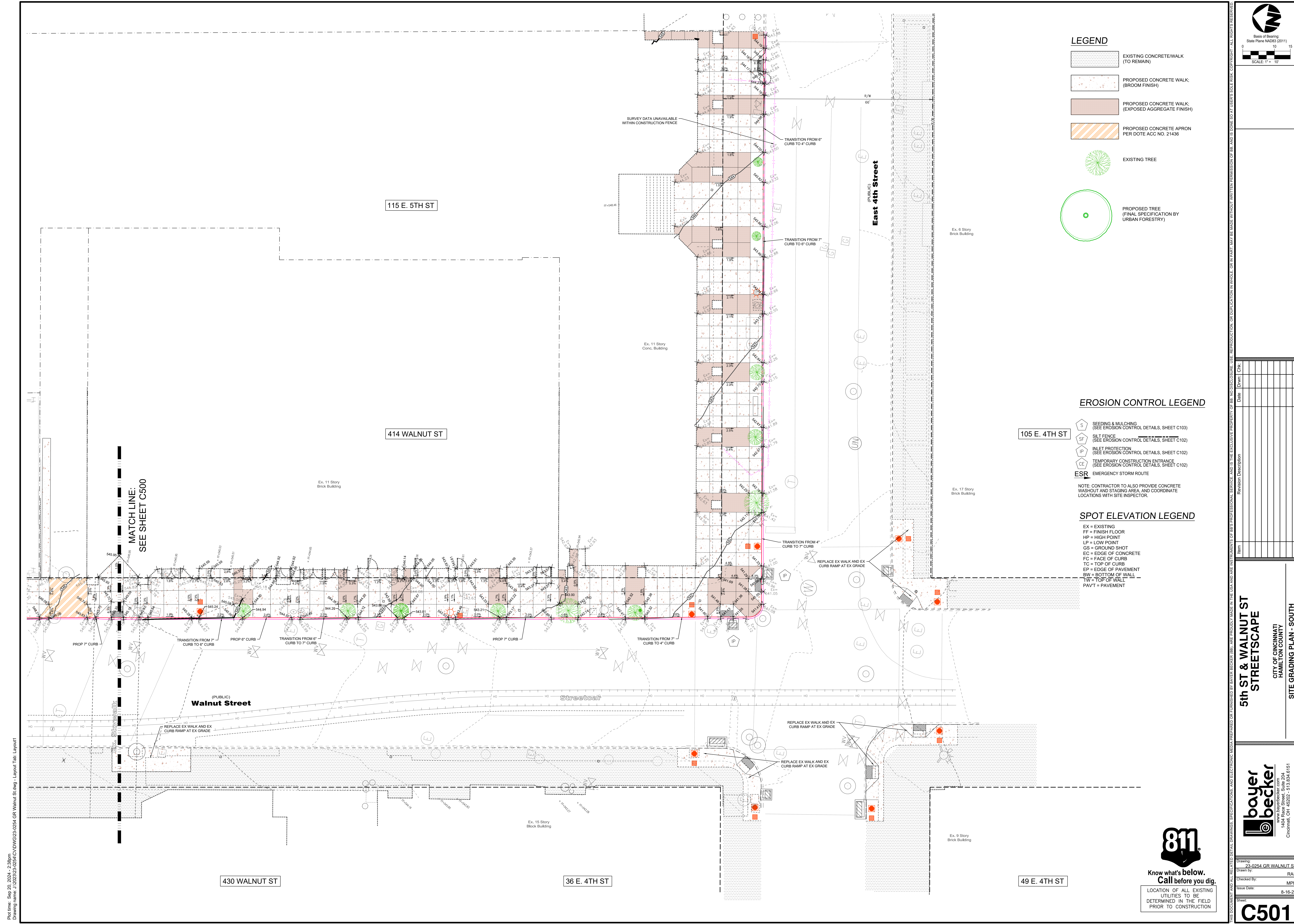
### SPOT ELEVATION LEGEND

EX	EXISTING
FF	FINISH FLOOR
HP	HIGH POINT
LP	LOW POINT
GS	GROUND SHOT
EC	EDGE OF CONCRETE
FC	FACE OF CURB
TC	TOP OF CURB
EP	EDGE OF PAVEMENT
BW	BOTTOM OF WALL
TW	TOP OF WALL
PAVT	PAVEMENT



Date	Drwn/	Chk/

Plot time: Sep 20, 2024, 2:37pm  
Drawing name: J:\2023\23-0254-GR Walnut St.dwg - Layout Tab: Layout1



### LEGEND

- EXISTING CONCRETE/WALK (TO REMAIN)
- PROPOSED CONCRETE WALK: (BROOM FINISH)
- PROPOSED CONCRETE WALK: (EXPOSED AGGREGATE FINISH)
- PROPOSED CONCRETE APRON PER DOTE ACC NO. 21436
- EXISTING TREE
- PROPOSED TREE (FINAL SPECIFICATION BY URBAN FORESTRY)

### EROSION CONTROL LEGEND

- SEEDING & MULCHING (SEE EROSION CONTROL DETAILS, SHEET C103)
- SILT FENCE (SEE EROSION CONTROL DETAILS, SHEET C102)
- INLET PROTECTION (SEE EROSION CONTROL DETAILS, SHEET C102)
- TEMPORARY CONSTRUCTION ENTRANCE (SEE EROSION CONTROL DETAILS, SHEET C102)
- EMERGENCY STORM ROUTE

NOTE: CONTRACTOR TO ALSO PROVIDE CONCRETE WASHOUT AND STAGING AREA, AND COORDINATE LOCATIONS WITH SITE INSPECTOR.

### SPOT ELEVATION LEGEND

- EX = EXISTING
- FF = FINISH FLOOR
- HP = HIGH POINT
- LP = LOW POINT
- GS = GROUND SHOT
- EC = EDGE OF CONCRETE
- FC = FACE OF CURB
- TC = TOP OF CURB
- EP = EDGE OF PAVEMENT
- BW = BOTTOM OF WALL
- TW = TOP OF WALL
- PAVT = PAVEMENT

Base of Bearing: State Plane NAD83 (2011)  
SCALE: 1" = 10'

Date	Drawn	Checked

**5th ST & WALNUT ST STREETScape**  
CITY OF CINCINNATI  
HAMILTON COUNTY  
SITE GRADING PLAN - SOUTH

**bayer becker**  
1404 Race Street, Suite 204  
Cincinnati, OH 45202 • 513.634.6151

811 Know what's below. Call before you dig.  
LOCATION OF ALL EXISTING UTILITIES TO BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION

Drawing: 23-0254 GR WALNUT ST	Drawn by: RAS
Checked by: MPD	Issue Date: 8-16-24
Sheet: <b>C501</b>	

Plot file: Sep 20, 2024, 2:38pm  
Drawing name: J:\2023\23-0254 GR Walnut St.dwg - Layout Tab Layout1

THIS DOCUMENT AND ALL RELATED DETAIL DRAWINGS, SPECIFICATIONS, AND ELECTRONIC MEDIA PREPARED OR FINISHED BY BAYER BECKER (BB) ARE PROPERTY OF BB AND ARE INSTRUMENTS OF PROFESSIONAL SERVICE AND ARE THE EXCLUSIVE PROPERTY OF BB. NO DISCLOSURE, REPRODUCTION, OR DUPLICATION IN WHOLE OR IN PART MAY BE MADE WITHOUT WRITTEN PERMISSION OF BB AND IS SOLELY AT USER'S RISK. COPYRIGHT - ALL RIGHTS RESERVED.

# TRAFFIC SIGNAL GENERAL NOTES

## 2024 SPECIFICATIONS:

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION AND THE CITY OF CINCINNATI SUPPLEMENT DATED 01/01/23 THERETO.

## NOTES:

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THESE PLANS HAS BEEN OBTAINED BY DILIGENT FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. THE CITY OF CINCINNATI DOES NOT GUARANTEE THE ACCURACY OF THE AFOREMENTIONED LOCATIONS AND ACCEPTS NO RESPONSIBILITY FOR ANY EXPENSE RESULTING FROM ERRORS OR OMISSIONS OF UTILITY LOCATIONS. CONTRACTOR(S) SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATIONS OF ALL UTILITIES IN THE FIELD PRIOR TO THE START OF ANY WORK. NOTIFY PROJECT ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING WORK IN AFFECTED AREA.

### 1303 EQUIPMENT QUALITY

ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND OF FIRST QUALITY AS PER SPECIFICATION 1303.

### 1304 UTILITIES PERMITS AND REGULATIONS

THE CONTRACT DRAWINGS SHOW ALL UTILITIES, WATER, GAS, AND SEWER LINES KNOWN TO EXIST. HOWEVER, THIS DOES NOT GUARANTEE THAT ALL EXISTING LINES AND APPURTENANCES HAVE BEEN SHOWN ON THE CONTRACT DRAWINGS, AND THE CITY ASSUMES NO RESPONSIBILITY FOR THE ACCURACY THEREOF AND DOES NOT FREE THE CONTRACTOR FROM NECESSARY PRECAUTIONS FOR THE PROTECTION OF ANY UTILITY ENCOUNTERED ON THE PROJECT OR THE RESTORATION OF ANY UTILITY DAMAGED DURING THE WORK. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS, AND COMPLY WITH ALL LOCAL AND NATIONAL SAFETY CODES.

THE CONTRACTOR SHALL NOTIFY AT LEAST 48 HOURS BEFORE BREAKING GROUND ALL PUBLIC AND/OR PRIVATE SERVICE CORPORATIONS HAVING WIRE, POLES, PIPES, CONDUIT, MANHOLES OR OTHER STRUCTURES THAT MAY BE AFFECTED BY THIS OPERATION, INCLUDING ALL STRUCTURES WHICH ARE AFFECTED AND NOT SHOWN ON THESE PLANS. OWNERS OF UNDERGROUND UTILITIES WHICH ARE MEMBERS OF THE OHIO UTILITIES PROTECTION SERVICE CAN BE NOTIFIED BY CALLING 800-362-2784 (TOLL FREE). NON-MEMBER UNDERGROUND UTILITY OWNERS MUST BE CALLED DIRECTLY.

SUPPORTING AND/OR PROTECTING EXISTING WATER LINES, GAS MAINS, TELEPHONE CONDUIT, STORM SEWERS, ETC. SHALL BE INCLUDED IN PAYMENT FOR THE VARIOUS CONTRACT ITEMS OF WORK.

ALL WORK REQUIRED FOR THE MAINTENANCE OF SERVICE OF EXISTING UTILITIES SHALL BE DONE BY, AND AT THE EXPENSE OF, THE CONTRACTOR.

ALL MAINTENANCE, REPAIR AND/OR REPLACEMENT OF EXISTING UTILITIES SHALL BE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE VARIOUS UTILITY COMPANIES HAVING JURISDICTION.

ALL EXISTING STORM SEWERS, DRIVEWAY DRAINS, AND OTHER SURFACE DRAIN PIPES, WHETHER SHOWN ON THE CONTRACT DRAWINGS OR NOT, REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AND RECONNECTED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AT NO COST TO THE CITY. REPLACED DRAIN PIPES SHALL BE LAID ON COMPACTED BEDDING EQUAL IN DENSITY TO SURROUNDING STRATUM. ALL UTILITIES OTHER THAN WATER AND SEWER LINES ARE TO BE RELOCATED, AS DIRECTED BY THE ENGINEER, AT NO COST TO THE CITY.

IT IS ASSUMED THAT THERE ARE WATER AND GAS BRANCH LINES, ETC., SERVING EACH RESIDENCE. THE CONTRACTOR SHALL REPAIR AND REPLACE THESE UTILITIES, IF DAMAGED, AT NO COST TO THE CITY.

IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY WITH THE INDIVIDUAL UTILITY OWNERS THAT ABANDONED SERVICE TAPS HAVE BEEN PROPERLY DISCONNECTED AND TERMINATED IF THE TAPS ARE ENCOUNTERED DURING CONSTRUCTION.

### 1306 CONTRACTOR FURNISHED EQUIPMENT

THE CONTRACTOR SHALL SUBMIT TO THE CITY TRAFFIC ENGINEER FOR REVIEW AND APPROVAL SEVEN (7) SETS OF DRAWINGS, CATALOG CUTS, SPECIFICATIONS, DATA SHEETS, WIRING DIAGRAMS, ETC., FOR ALL APPARATUS AND EQUIPMENT THAT THE CONTRACTOR PROPOSES TO FURNISH. NO EQUIPMENT MAY BE PURCHASED OR INSTALLED WITHOUT WRITTEN APPROVAL.

### 1308 EQUIPMENT FURNISHED BY THE CITY

THE FOLLOWING EQUIPMENT WILL BE FURNISHED TO THE CONTRACTOR BY THE CITY:  
1. OVERHEAD FLAT SHEET TYPE, AS NOTED.

THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS FOR A COMPLETE INSTALLATION OF THIS EQUIPMENT.

### 1309 INSTALLATION PRACTICES

MINOR REPOSITIONING OF SIGNS OR SIGNALS MAY BE NECESSARY AND THE CONTRACTOR SHALL MAKE THE ADJUSTMENTS AS DIRECTED BY THE ENGINEER. WORK SHALL BE INCIDENTAL TO THE COST OF THE ITEM BEING REPOSITIONED.

### 1311 INSPECTION

IN ADDITION TO THE PROVISIONS OF ITEM 105.10, THE CONTRACTOR SHALL OBSERVE THE FOLLOWING:

- ALL CONDUIT IN TRENCH SHALL BE APPROVED BEFORE BACKFILL AND/OR CONCRETE ENCASEMENT IS COMPLETED.
- ALL FOUNDATIONS FOR ANCHOR BASE POLES, COMPLETE WITH ANCHOR BOLTS AND REBAR CAGES INTACT, SHALL BE APPROVED PRIOR TO CONCRETE POUR.

### 1312 ELECTRIC POWER SERVICE

COORDINATE WITH DUKE ENERGY FOR POWER SERVICE. CONTACT ANDY CARTER, TRAFFIC ENGINEERING, AT 378-6190 FOR ACTUAL REQUEST FOR SERVICE CONNECTION TO THE PROPOSED SERVICE POINT AFTER APPROVED INSPECTION BY DOTE SIGNALS INSPECTOR. CONTRACTOR SHALL NOT MAKE CONNECTIONS TO PROPOSED SERVICE POINT AT ANY TIME.

ELECTRIC SERVICE REQUIREMENTS:  
FOR TRAFFIC SIGNALS, 120 VOLTS, 60 AMPERE.  
FOR STREET LIGHTING, 120/240 3-WIRE.

THE CONTRACTOR SHALL PROVIDE ALL SERVICE EQUIPMENT NECESSARY TO CONNECT THE TRAFFIC SIGNALS AND STREET LIGHTING TO THE POWER SOURCE AS PER CONTRACT PLANS, DETAILS AND STANDARD DRAWING ES-2--2 & ES-7-1. SAFETY SWITCH FOR TRAFFIC SIGNALS SHALL BE 60 AMP W/40 AMP UL CLASS RK-1, 250V FUSE.

ODOT SUPPLEMENTAL SPECIFICATIONS	
SS-800	(01/19/24)
SS-804	(01/19/24)
SS-809	(01/19/24)
SS-832	(07/21/23)
SS-904	(07/15/22)
SS-909	(01/19/24)

ODOT STANDARD CONSTRUCTION DRAWINGS		
HL 30.11	(07/21/23)	MT 105.10 (01/17/20)
ITS 10.11	(07/19/24)	TC 21.21 (01/20/23)
MT 95.31	(07/19/19)	TC 41.30 (04/21/23)
MT 95.32	(04/19/19)	TC 81.21 (07/21/23)
MT 95.50	(07/21/17)	TC 83.20 (01/19/24)
MT 95.60	(04/19/19)	TC 84.20 (01/19/24)
MT 95.61	(04/19/19)	TC 84.21 (10/18/13)
MT 97.10	(04/19/19)	TC 85.10 (01/19/24)
MT 97.11	(01/20/17)	-----

CITY OF CINCINNATI STANDARD CONSTRUCTION DRAWINGS					
5578 (02/01/91)	21511 (02/01/91)	ES-1-3 (07/19/04)	ES-3-6 (08/24/04)	ES-6-1 (09/02/04)	
21430 (05/01/95)	21514 (04/08/91)	ES-1-4 (07/19/04)	ES-3-9 (08/30/04)	ES-6-2 (03/29/05)	
21435 (04/03/91)	21515 (05/01/95)	ES-2-1 (08/29/04)	ES-3-10A (09/15/04)	ES-6-3 (09/07/04)	
21437 (05/01/95)	21516 (05/01/95)	ES-2-2 (08/28/04)	ES-3-10B (08/30/04)	ES-7-1 (03/04/99)	
21502 (04/03/91)	22855 (06/01/95)	ES-3-1 (08/18/04)	ES-3-10C (08/30/04)	ES-10-1 (09/01/04)	
21505 (05/01/95)	27256 (01/07/03)	ES-3-2 (08/13/04)	ES-3-10D (01/16/15)	ES-10-2 (04/05/05)	
21506 (05/01/95)	ES-1-0 (08/30/07)	ES-3-3 (12/10/10)	ES-4-1 (08/31/04)	-----	
21507 (05/01/95)	ES-1-1 (07/19/04)	ES-3-4 (08/18/04)	ES-4-2 (08/31/04)	-----	
21508 (05/01/95)	ES-1-2 (07/16/04)	ES-3-5 (08/20/04)	ES-5-1 (09/01/04)	-----	

### 1313 TESTING

TESTING SHALL MEET THE REQUIREMENTS OF ODOT 625.22. PRIOR TO ACCEPTANCE THE CONTRACTOR SHALL CONDUCT A TEN (10) DAY BURN TEST OF THE COMPLETED AND OPERATIONAL STREET LIGHTING SYSTEM. THE LIGHTING SYSTEM SHALL OPERATE FOR TEN CONSECUTIVE DAYS WITHOUT INTERRUPTION AND BE FREE OF ANY MALFUNCTIONS.

THE CONTRACTOR SHALL OPERATE ALL NEW TRAFFIC SIGNALS FOR FIVE (5) CONTINUOUS DAYS IN FLASHING OPERATION, UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER. REBUILT OR REPLACED TRAFFIC SIGNALS ARE TO BE OPERATED IN COLOR MODE DIRECTLY. PRIOR TO ACCEPTANCE OF ANY NEW, REBUILT OR REPLACED TRAFFIC SIGNAL, THE TRAFFIC SIGNAL SHALL HAVE A FINAL TEST CONSISTING OF 30 MINUTES OF COLOR OPERATION WITHOUT FAILURE OR MALFUNCTIONS.

ALL GROUND RODS SHALL BE TESTED BY THE CONTRACTOR AND HAVE A RESISTANCE TO GROUND OF 25 OHMS OR LESS.

CTCS TYPE INTERCONNECT CABLE SHALL BE TESTED BY THE CONTRACTOR TO VERIFY THE CAPABILITY OF VOICE TRANSMISSION AND THE ABSENCE OF EXCESSIVE INDUCED NOISE. MEASUREMENTS SHALL BE PERFORMED BY THE CONTRACTOR ON ALL DATA CIRCUITS TO INSURE THAT THE TRANSMISSION BANDWIDTH IS REASONABLE FOR DATA TRANSMISSION AT 1200 BAUD USING FREQUENCY SHIFT KEYED MODULATION OF 1200 AND 2200 HERTZ. THE TESTS SHALL ALSO VERIFY THAT THERE ARE NO SHORTS OR OPEN CIRCUITS TO ANY TERMINATION POINT, AND THAT EACH PAIR IS CAPACITIVELY BALANCED TO GROUND. ANY DISCREPANCIES OR TEST FAILURES SHALL BE CORRECTED BY THE CONTRACTOR.  
COST SHALL BE INCIDENTAL TO THE ITEM TESTED.

### 1314 MAINTENANCE OF EXISTING TRAFFIC SIGNAL

THE CONTRACTOR SHALL MAINTAIN AND KEEP OPERATIONAL THE EXISTING TRAFFIC SIGNAL UNTIL ALL OTHER NEW EQUIPMENT HAD BEEN INSTALLED AND IS FUNCTIONAL. WORK WILL INCLUDE ANY MODIFICATIONS TO EXISTING OR TEMPORARY TRAFFIC SIGNAL INSTALLATIONS AS REQUIRED BY CHANGES IN CONSTRUCTION OR OPERATIONAL CONDITIONS IN THE PROJECT AREA THROUGHOUT THE ENTIRE CONTRACT PERIOD. THIS WILL INCLUDE RELOCATIONS, REMOVALS, COVERING OR UNCOVERING OF TRAFFIC/PEDESTRIAN SIGNALS AND ILLUMINATED/REFLECTORIZED SIGNS AND OTHER TRAFFIC SIGNAL EQUIPMENT, AND THE INSTALLATION OF TEMPORARY POLES OR TEMPORARY POLE GUYS TO SATISFY SAFETY AND OPERATIONAL CONDITIONS THROUGHOUT THE PROJECT. THIS WORK WILL BE PERFORMED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ANY OF THE TRAFFIC SIGNAL COMPONENTS REQUIRED TO BE HANDLED DURING RELOCATION OF POLES AND MODIFICATIONS TO THE SIGNAL SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR NORMAL MAINTENANCE OF THE TRAFFIC SIGNAL, INCLUDING LAMP REPLACEMENT AND REPAIRS REQUIRED DUE TO OUTAGES CAUSED BY CIRCUMSTANCES OTHER THAN THE CONTRACTOR'S OPERATIONS. THE CITY OF CINCINNATI IS RESPONSIBLE THE MAINTENANCE OF THE CONTROLLER EQUIPMENT.

WHERE PROPOSED NEW EQUIPMENT BLOCKS OR OBSCURES THE LINE OF SIGHT OF EXISTING EQUIPMENT, OR WHERE NEW EQUIPMENT IS PROPOSED IN THE SAME LOCATION AS EXISTING EQUIPMENT, THE CONTRACTOR SHALL TEMPORARILY ADJUST EXISTING OR NEW SIGNALS AND SIGNS. NEW TRAFFIC SIGNALS AND SIGNS WHICH WERE TEMPORARY ADJUSTED, SHALL BE RE-POSITIONED IN THE PROPOSED LOCATIONS AS INDICATED IN THE PLANS AFTER EXISTING EQUIPMENT IS REMOVED.

ALL ADJUSTMENTS SHALL BE APPROVED BY THE DOTE TRAFFIC SIGNALS ENGINEER.

SCHEDULE CONSTRUCTION THROUGHOUT THE PROJECT TO MAINTAIN THE INTERCONNECT SYSTEM DURING THE CONTRACT PERIOD. USE EXISTING, TEMPORARY CABLE OR NEWLY INSTALLED INTERCONNECT CABLE TO MAINTAIN THE INTERCONNECT SYSTEM.

AT INSTALLATIONS WHERE INTERCONNECT CABLE DOES NOT EXIST, INSTALL THE SPECIFIED NEW INTERCONNECT CABLE SYSTEM PRIOR TO COMPLETING AND OPERATING THE NEW OR RECONSTRUCTED TRAFFIC SIGNAL SYSTEMS OR PROVIDE AN EQUIVALENT MEANS, SUBJECT TO THE ENGINEER'S APPROVAL, OF MAINTAINING SIGNAL COORDINATION AT ALL TIMES.

### 1314 MAINTENANCE OF EXISTING STREET LIGHTING CIRCUIT

KEEP THE EXISTING STREET LIGHTING SYSTEM IN OPERATION UNTIL TESTING AND CITY ACCEPTANCE OF THE NEW CIRCUIT(S) AND/OR LIGHTS.

THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY STREET LIGHTING EQUIPMENT WHILE IN THE CONTRACTORS POSSESSION, OR WHERE EXISTING COMPONENTS ARE DAMAGED DUE TO THE CONTRACTORS OPERATIONS.

THIS ITEM SHALL BE PAID BASED UPON DETAILS LISTED ON THE LIGHTING PAGES.

### 1316 REMOVAL OF EXISTING TRAFFIC SIGNAL, BY LOCATION

THE CONTRACTOR SHALL REMOVE ALL OLD EQUIPMENT AND MAKE THE NECESSARY RESTORATIONS. IT WILL BE THE CONTRACTORS RESPONSIBILITY TO RETURN TO THE CITY OF CINCINNATI ALL OLD EQUIPMENT EXCEPT CUT OFF STEEL EMBEDDED BASE POLES, OLD SIGNAL CABLE, AND OLD SPAN WIRE. THE CONTRACTOR SHALL CONTACT THE TRAFFIC SERVICES BUREAU SUPERVISOR AT 591-6092 TO ARRANGE RETURN OF THE OLD EQUIPMENT UNBUNDLED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF THE UNWANTED EQUIPMENT. DEMOLITION SHOULD BE COORDINATED WITH NEW INSTALLATIONS SUCH THAT SERVICES ARE NOT LOST AT ANY TIME. EXISTING EQUIPMENT SHOULD NOT BE REMOVED OR DISCONNECTED UNTIL NEW EQUIPMENT IS TURNED ON AND OPERATIONAL WITHOUT PRIOR APPROVAL BY DOTE TRAFFIC ENGINEERING. POLES THAT ARE DOUBLE LOADED WITH BOTH THE PROPOSED AND THE EXISTING SIGNAL EQUIPMENT BEING REQUIRED DURING INSTALLATION OF THE PROPOSED SHALL BE TEMPORARILY GUYED FOR THE DURATION THE POLE IS DOUBLE LOADED. THIS GUYING IS INCIDENTAL TO THE "MAINTENANCE OF EXISTING TRAFFIC SIGNAL LOCATION" BID ITEM.

### 1316 REMOVAL OF EXISTING EQUIPMENT, REFLECTORIZED OVERHEAD SIGN

THIS ITEM SHALL BE PAID ON A LUMP SUM BASIS FOR EACH ITEM. MAKE ARRANGEMENTS PRIOR TO THE RETURN OF ALL REUSABLE EQUIPMENT TO THE TRAFFIC SERVICES, 3300 COLERAIN AVENUE. THE CONTRACTOR IS RESPONSIBLE FOR THE LAWFUL DISPOSAL OF ALL UNWANTED EQUIPMENT.

### 1318 STEEL POLES, PEDESTALS AND STREET LIGHTING POLES

ALL STEEL POLES SHALL MEET ALL SPECIFICATIONS IN ITEM 1318 AND STANDARD DRAWING TC-81.22. ALL VISIBLE ELEMENTS OF THE SUPPORT, AND ANY OTHER PARTS REQUIRED TO BE COATED, SHALL BE GALVANIZED (IF APPLICABLE) AND THEN POWDER-COATED. THE TOP FINISH COAT OF PAINT SHALL BE SIMILAR TO: FEDERAL SPECIFICATION 595-B COLOR #17038, BLACK. THE FINISH SHALL BE PROTECTED DURING TRANSPORTATION BY A SUITABLE PLASTIC OR RUBBER WRAPPING.

ALL POLES, AND ANY MATERIALS ATTACHED TO THEM, SHALL BE LOCATED A MINIMUM OF 2 FEET FROM THE FACE OF THE CURB TO THE FACE OF THE POLE. THIS MAY REQUIRE ATTACHMENT HARDWARE IN EXCESS OF ONE FOOT FOR THE ATTACHMENT OF PEDESTRIAN SIGNALS TO POLES.

WHERE STREET LIGHTING BRACKET ARMS ARE SPECIFIED, POLE PLATES AND 1 1/2" HALF COUPLING SHALL BE WELDED TO THE POLE AS SHOWN IN ES-10-1 AND ES-10-3. BRACKET ARMS SHALL BE SIZE AND TYPE AS PER PLAN. CONTRACTOR TO INSTALL DEAD END CLEVIS TO SERVE STREET LIGHT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE POLES WHILE IN HIS POSSESSION. MINOR DEFECTS OR SCRATCHES ARE TO BE REPAIRED AS DIRECTED BY THE ENGINEER. IF ANY MAJOR DAMAGE OR SCRATCHES OCCUR, THE CITY SHALL REPLACE THE POLE WITH A DUPLICATE, AND THE CONTRACTOR SHALL REIMBURSE THE CITY THE COST OF THE DAMAGED POLE, OR THE COST SHALL BE DEDUCTED FROM THE PAYMENT TO THE CONTRACTOR.

PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE BID FOR EACH ITEM AS SPECIFIED, AND SHALL BE FULL COMPENSATION FOR ALL LABOR, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY FOR EACH ITEM INSTALLED, COMPLETE IN PLACE AND ACCEPTED. (THE WELDING OF NIPPLES FOR CABLE ENTRANCE AND WEATHERHEADS SHALL BE INCIDENTAL TO THE INSTALLATION BY THE CONTRACTOR).

### 1319 FOUNDATIONS

ALL CONCRETE FOUNDATIONS SHALL BE CONSTRUCTED AS PER SPECIFICATION 1319 AND PER STANDARD DRAWING TC-21.21. ALL FOUNDATIONS SHALL INCLUDE ALL REINFORCING RODS, ANCHOR BOLTS AND CONDUIT ELLS.

FOUNDATIONS SHALL BE CURED FOR A MINIMUM OF SEVEN (7) DAYS BEFORE ERECTION OF POLES, POSTS AND CABINETS.

FOUNDATIONS SHALL BE CURED FOR A MINIMUM OF FOURTEEN (14) DAYS BEFORE LOADING IS APPLIED. SEE ODOT ITEM 632.13.

CURING TIMES CAN BE ACCELERATED USING FAST SET CONCRETE WITH THE SUBMITTAL OF PROPER MATERIAL DOCUMENTATION AND PRIOR APPROVAL FROM THE ENGINEER.

WHERE EXCAVATION CAUSES CAVING DUE TO SOIL CONDITIONS, THE USE OF CORRUGATED PIPE IS AUTHORIZED, AS DIRECTED BY THE ENGINEER. THE EXCAVATION IS TO BE BACKFILLED WITH CONTROL DENSITY FILL AFTER THE FOUNDATION HAS BEEN Poured. THE USE OF SONO-TUBE OR SIMILAR TUBING MATERIAL IS NOT PERMITTED.

THE COST OF THE PIPE, BACKFILL AND LABOR TO INSTALL IT SHALL BE INCIDENTAL TO THE COST OF THE FOUNDATION.

### 1320 GROUND RODS

A 1" X 10' COPPER CLAD STEEL GROUND ROD SHALL BE DRIVEN INTO THE BOTTOM OF PULLBOXES WHICH ARE ADJACENT TO POLE FOUNDATIONS SO THAT ONE (1) FOOT OF THE ROD IS EXPOSED IN THE PULLBOX. WHERE PULLBOXES ARE NOT ADJACENT TO POLES OR POSTS, DRIVE GROUND RODS ADJACENT TO THE POLE FOUNDATIONS AS PER STANDARD DRAWING ES-1-1. PAYMENTS FOR THE GROUND RODS SHALL BE MADE AT THE CONTRACT UNIT PRICE BID FOR EACH ITEM INSTALLED COMPLETE WITH #4 AWG GROUND WIRE, EXOTHERMIC WELD, TESTED AND ACCEPTED OR APPROVED GROUND ROD CLAMP. IF MORE THAN ONE GROUND ROD IS REQUIRED AT A LOCATION TO OBTAIN THE REQUIRED GROUND RESISTANCE, THE ADDITIONAL GROUND RODS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH AND SHALL INCLUDE ALL WIRE, CONNECTIONS AND OTHER MATERIALS AND LABOR TO INSTALL THE COMPLETE TESTED SYSTEM. TESTS SHALL COMPLY WITH ODOT SPEC. "625.19-TESTING OF INSTALLATIONS".

### 1321 TRENCH

ALL TRENCH FOR INSTALLATION OF CONDUIT IN SOD AREAS, UNDER WALKWAYS, OR SIDEWALKS SHALL BE 24" DEEP. TRENCH IN THE SOD AREAS SHALL INCLUDE BACKFILL AND RESTORATION IN ACCORDANCE WITH ITEM 625.12. THE BACKFILL UNDER SIDEWALKS OR WALKWAYS SHALL BE COMPACTED AS PER ITEM 603.10, AND ANY EXISTING SIDEWALK, CURB RAMPS AND/OR STEPS DISTURBED BY WORK THAT ARE SHOWN TO REMAIN SHALL BE RESTORED IN ACCORDANCE WITH ITEM 448 AND/OR 608.

### 1321 TRENCH, IN PAVED AREA

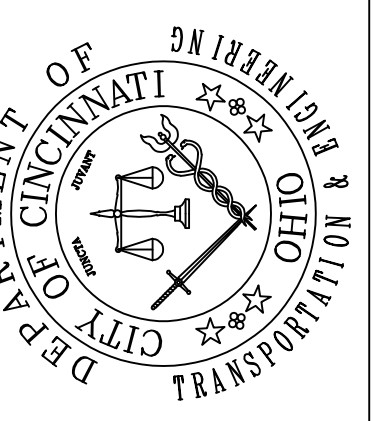
TRENCH UNDER ROADWAYS OR DRIVEWAYS SHALL BE 30" DEEP, AND SHALL INCLUDE REMARKING THE AREA TO BE TRENCHED, SAW CUTTING, REMOVING THE MATERIAL, BACKFILLING, COMPACTING AND RESTORING THE SURFACE IN ACCORDANCE WITH ITEM 603 AND AS DIRECTED BY THE ENGINEER. BACKFILL UNDER GREEN STORMWATER CONTROLS ACCORDING TO DETAILS SHOWN ON THE PLANS.

### 1321 CONDUIT

CONDUIT UNDER SIDEWALKS OR SOD AREAS SHALL BE POLYVINYL CHLORIDE (PVC) SCHEDULE 40, TYPE II, WITH CONCRETE ENCASEMENT. SIZE AS SPECIFIED IN THE PLANS.

CONDUIT UNDER STREETS OR DRIVEWAYS SHALL BE POLYVINYL CHLORIDE (PVC) SCHEDULE 40, TYPE II, WITH CONCRETE ENCASEMENT MEETING THE REQUIREMENTS OF ITEM 725.04. TYPE AND SIZE AS SPECIFIED IN THE PLANS.

WHERE PVC CONDUIT IS Routed THROUGH A TREEWELL, THE PVC CONDUIT SHALL HAVE AN RMC SLEEVE WITHIN THE EXTENTS OF THE TREEWELL AND EXTENDING 12" BEYOND THE TREEWELL ON EACH SIDE AND NO CONCRETE ENCASEMENT WITHIN THE LIMITS OF THE RMC SLEEVE. THE BID ITEM ASSOCIATED WITH THIS RMC SLEEVE IS SEPARATE FROM THE PVC CONDUIT BEING SLEEVED.



CONTRACT DRAWING

PRINTS NOT BEARING THIS SEAL ARE NOT VALID PRIOR TO ADVERTISING FOR BIDS AND ARE TO BE USED ONLY FOR CONTRACT PURPOSES.

Department of Transportation and Engineering

City of Cincinnati  
800 Plum Street  
Cincinnati, Ohio 45202

3CDC Cincinnati Streetscape  
Traffic Signal General Notes

Revisions	
No.	Date

Date	8/19/2024
Drawn by	AKT
Date	8/19/2024
Designed by	AKT
Date	8/23/2024
Checked by	TGB
Date	8/26/2024
Required by	MK

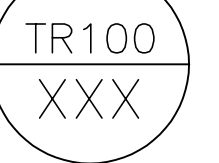
Consultant

# HNTB

Project Number	86664
Task No.	3

PROFESSIONAL STAMP

SIGN: \_\_\_\_\_  
DATE: \_\_\_\_\_





# TRAFFIC SIGNAL GENERAL NOTES

**1322 ELECTRICAL BOXES**

PULLBOXES MAY BE CAST-IN-PLACE OR PRECAST. PRECAST PULLBOXES SHALL HAVE REINFORCING INCLUDED. REFER TO THE STANDARD DRAWING ES-2-1. ALL PULLBOXES IN SIDEWALK OR STREET AREAS SHALL HAVE THE FRAME AND LID CAST INTEGRAL WITH FINAL SIDEWALK OR PAVING. PRECAST PULLBOXES WITH INTEGRAL FRAMES AND LIDS SHALL NOT BE PERMITTED IN SIDEWALK/PAVEMENT AREAS.

SUBMIT SEPARATE SUBMITTALS FOR ELECTRICAL BOXES IN SIDEWALK/PAVEMENT AREAS AND FOR ELECTRICAL BOXES IN GRASS/SOD AREAS.

**1322 RE-USE EXISTING PULLBOX**

THE WORK OF THIS ITEM SHALL INCLUDE CLEARING THE PULLBOX OF DEBRIS, CUTTING INTO THE SIDES OF THE PULLBOX FOR NEW CONDUIT ENTRIES AND CEMENT PATCHING AND REPAIRING THE BOX TO SATISFACTORY CONDITION APPROVED BY THE ENGINEER.

PAYMENT FOR 1322 "RE-USE EXISTING PULLBOX" WILL BE MADE AT THE CONTRACT UNIT PRICE BID AND SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIAL, TOOLS, EQUIPMENT, AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM OF WORK.

**1323 CABLES, CONNECTORS AND ACCESSORIES**

TRAFFIC SIGNAL CABLE SHALL BE STRANDED COPPER CONDUCTOR AND MEET THE REQUIREMENTS OF IMSA SPECIFICATION 19-1 OR 20-1. ANY OTHER CABLE AND WIRE SHALL BE THE TYPE AND SIZE SPECIFIED IN ACCORDANCE WITH THE PLANS AND STANDARD DRAWINGS. ALL ACCESSORIES, SPLICES AND HARDWARE WILL BE INCLUDED WITH THE CABLE AND WIRE. THE CITY SHALL APPROVE ALL CONNECTIONS AND SPLICES.

CONNECTION TO THE ENERGIZED TRAFFIC SIGNAL INTERCONNECT CABLE, OR DISCONNECTION, SHALL BE MADE BY THE CITY OF CINCINNATI FORCES. THE CONTRACTOR SHALL CONTACT THE TRAFFIC SERVICES BUREAU FIVE (5) DAYS IN ADVANCE AT 591-6092 TO ARRANGE THIS WORK.

CITY FORCES SHALL MAKE ALL SECTIONALIZER CONNECTIONS AND DISCONNECTIONS TO NEW OR EXISTING ENERGIZED INTERCONNECT CABLE. THE CONTRACTOR SHALL DO ALL OTHER WORK INVOLVED IN COMPLETING THE INSTALLATION OF THE CABLE SYSTEM.

ALL THIS WORK SHALL BE INCIDENTAL TO THE COST OF ITEM 1323 "INTERCONNECT CABLE".

CTCS CABLE (TRAFFIC CONTROL COMMUNICATION SYSTEM CABLE) WILL BE INSTALLED BY THE CONTRACTOR. PREVIOUS NOTES RELATING TO CONNECTIONS BY CITY FORCES ALSO APPLY TO THIS CABLE.

CABLE TAGS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR PER PLANS AND DETAILS CONTAINED HEREIN. PAYMENT FOR CABLE TAGS AND THEIR INSTALLATION IS INCIDENTAL TO THE ITEM "CABLE SUPPLIED AND INSTALLED".

ALL POWER, FEEDER AND POLE AND BRACKET CABLE SHALL BE RHH/RHW/USE INSULATION AND RATED FOR 600 VOLTS. STRANDED COPPER WIRE SHALL MEET THE REQUIREMENTS OF ITEM 1323.01. CONDUCTOR OUTER JACKET COLOR SHALL BE AS INDICATED ON PLAN SHEETS AND BE PROVIDED BY PERMANENTLY COLOR IMPREGNATING THE CONDUCTORS' OUTER JACKET ALONG ITS ENTIRE LENGTH DURING THE MANUFACTURING PROCESS. CODE FOR COLOR IMPREGNATING: LINE 1-RED, LINE 2-BLACK AND GROUND-GREEN. COLOR TAPE OR PAINT ARE NOT ACCEPTABLE SUBSTITUTES.

CONNECTOR KITS AND SPLICE KITS SHALL MEET THE REQUIREMENTS OF ODOT SPEC. ITEM 725.15. FUSED CONNECTORS FOR STREET LIGHTING SHALL INCLUDE 5 AMP UL CLASS CC FUSE, 600 VOLT.

CONNECTION OF ELECTRIC SERVICES TO THE DUKE ENERGY SECONDARY (120/240 VOLT) SYSTEM SHALL BE MADE BY DUKE ENERGY CREWS ONLY.

FOR ALL PROPOSED CABLES TO BE ROUTED ON EXISTING AERIAL SPAN WIRE, UN-LASH EXISTING TRAFFIC SIGNAL CABLES AND RE-LASH EXISTING AND PROPOSED CABLES IN A SINGLE BUNDLE. PROVIDE NEW #14 SOLID BARE COPPER LASHING CABLE AS PER ES-3-2. ALL COST TO UN-LASH AND RE-LASH CABLES TO EXISTING MESSENGER WIRE ARE INCIDENTAL AND TO BE INCLUDED IN THIS ITEM.

**1324 TRAFFIC SIGNAL CONTROLLER, FURNISH AND INSTALLATION**

THIS ITEM INCLUDES SUPPLYING AND INSTALLATION OF THE SIGNAL CONTROL EQUIPMENT INCLUDING SIGNAL CONTROLLER, DETECTOR AMPLIFIERS, CONTROL CABINET AND AUXILIARY CABINET PER ITEM 1324 IN THE CURRENT EDITION OF THE CITY SUPPLEMENT TO THE ODOT CMS.

CONTRACTOR TO SUPPLY NEW 2070LXD DUAL BOOT TYPE CONTROLLER UNIT RUNNING THE CURRENT VERSION OF WAPITI AND MAXTIME, 300MBPS WIRELESS N NANO ROUTER, 16 MB LOW PROFILE FLASH USB DRIVE, 330 CIN CABINET, LOOP DETECTOR AMPLIFIERS AND ALL ASSOCIATED EQUIPMENT TO MAKE SIGNAL OPERATIONAL AND COMPLETE. CONTRACTOR TO NOTIFY ENGINEER AND ARRANGE DELIVERY OF THE NEW CONTROLLER UNIT TO THE TRAFFIC SERVICES 30 DAY PRIOR TO THE DATE THE UNIT IS NEEDED FOR INSTALLATION. CITY FORCES WILL PROGRAM THE CONTROLLER WITH THE PROPOSED TIMING FOR THE SIGNAL. CONTRACTOR TO PICK UP THE CONTROLLER FROM PUBLIC SERVICE AND INSTALL POLE MOUNTED TRAFFIC SIGNAL CONTROLLER ON POLE AT LOCATION AND REFERENCE ANGLE IDENTIFIED ON THE PLAN SHEETS.

CONTRACTOR TO SUPPLY NEW AUXILIARY CABINET WITH INTERNAL POWER PANEL TO BE CONSTRUCTED TO NEMA 3 IN ACCORDANCE WITH ETHERNET ACCESS DEVICE MANUFACTURER RECOMMENDATION. CABINET SHALL BE 24" HIGH BY 24" WIDE BY 12" DEEP AND DESIGNED FOR FLANGE MOUNTING TO WALL OR POLE MOUNTING WITH A SINGLE FRONT DOOR SEALED WITH CLOSED CELL NEOPRENE GASKET WITH A CONTINUOUS HINGE ON THE RIGHT. CABINET SHALL HAVE ADJUSTABLE 10GA RACK RAILS, MOUNTED ON EQUIPMENT MOUNTING RAILS, WITH 10 RU TAPPED WITH #10-32. HARDWARE, DOOR CAM AND HINGE ARE TO BE STAINLESS STEEL. POWER PANEL SHALL INCLUDE 15A GFCI OUTLET, 15A RECEPTACLE OUTLET, SERVICE ENTRANCE, CB1 15A CIRCUIT BREAKER, SURGE SUPPRESSOR SPD @ 550A 120A, AND LINE, NEUTRAL AND GROUND TERMINAL BLOCKS. ATTACH AUXILIARY CABINET TO POLE AS PER ES-3-1 USING 3/4" WIDE, 0.030" THICK SS BANDING TOP AND BOTTOM AND MOUNTING BRACKETS. CABLE ENTRANCE SHALL BE PER ES-3-1, INCLUDING COUPLING WELDED

TO POLE, CONDULET, THREADED CLOSE NIPPLE, LOCKNUTS AND BUSHING EXCEPT COMPONENTS SHALL BE 4.0". INSTALL 2-CONDUCTOR 12 AWG CABLE FROM TRAFFIC SIGNAL CONTROLLER THROUGH THE CONTROLLER POLE TO AUXILIARY CABINET AND TERMINATE AT POWER PANEL AND IN TRAFFIC SIGNAL CONTROLLER. TERMINATION POINT WITHIN TRAFFIC SIGNAL CONTROLLER TO BE DETERMINED.

THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS FOR A COMPLETE INSTALLATION OF THIS EQUIPMENT. THE CONTRACTOR SHALL COMPLY WITH SPEC. 1324.04 FOR THE INSTALLATION OF TRAFFIC SIGNAL CONTROLLER AND SHALL FURNISH ALL NECESSARY MOUNTING HARDWARE

**1325 LUMINAIRE**

LUMINAIRES INSTALLED ON COMBINATION TRAFFIC SIGNAL SUPPORTS SHALL BE MANUFACTURED BY GARCO, MODEL MA22L-96L-650-NW-G3-AR2-2-UNV-DD-F1-HIS-BLA. SEE PLAN SHEETS FOR DETAILS PER INTERSECTION.

**1327 TRAFFIC SIGNALS**

ALL TRAFFIC SIGNAL INDICATIONS SHALL BE OF THE LED TYPE AND ALL TRAFFIC SIGNAL HEADS SHALL BE OF POLYCARBONATE CONSTRUCTION AND BE PROVIDED WITH A 3/8" DRAIN HOLE IN THE BOTTOM. TRAFFIC SIGNALS SHALL BE INSTALLED PER ODOT DRAWINGS TC-81.22 AND TC-85.20. SIGNAL HEAD CONDUIT BRACKETS AND CONDUIT FITTINGS SHALL BE PAINTED BLACK.

TRAFFIC SIGNAL HOUSING SHOULD BE BLACK BODY, BLACK TUNNEL VISORS, AND YELLOW DOORS.

ALL TRAFFIC SIGNAL INDICATIONS SHALL BE OF THE LED TYPE (LEOTEK, GELCORE GE OR APPROVED EQUAL) AND BE ON THE CURRENT ODOT PREQUALIFIED LIST (QPL).

**1327 PEDESTRIAN SIGNALS**

PEDESTRIAN SIGNALS SHALL BE OF ALUMINUM CONSTRUCTION WITH A BLACK FINISH AND SHALL BE THE TYPE D2 (16 INCH, 1 SECTION, LED, COUNTDOWN TYPE, INCANDESCENT LOOK). THE PEDESTRIAN SIGNAL SHALL HAVE AN INTEGRAL HAND/WALKING PERSON ON THE LEFT SIDE OF SIGNAL SECTION (PORTLAND ORANGE HAND AND LUNAR WHITE WALKING MAN) AND THE RIGHT SIDE OF THE SECTION HEAD SHALL CONTAIN A COUNTDOWN DISPLAY. SIGNALS SHALL BE PROVIDED WITH A 3/8" DRAIN HOLE IN THE BOTTOM. SIGNALS SHALL BE PROVIDED WITH 1 INCH DEEP EGGRATE TYPE VISORS. ALL MOUNTING HARDWARE (CLAMSHELL TYPE FOR STEEL POLES, PIPE MOUNT AND PVC RISER AND WEATHERHEAD FOR WOOD POLES) SHALL BE INCLUDED IN THE PRICE OF THE SIGNAL. SEE STANDARD DRAWINGS ES-3-2 AND ES-3-6 FOR MORE INFORMATION. ALL MOUNTING HARDWARE (FITTINGS AND PIPE) SHALL BE BLACK. THE PEDESTRIAN SIGNAL MUST HAVE A "ON/OFF" SWITCH FOR THE COUNTDOWN PORTION OF THE DISPLAY.

ALL PEDESTRIAN SIGNAL INDICATIONS SHALL BE OF THE LED TYPE AND BE ON THE CURRENT ODOT PREQUALIFIED LIST (QPL).

**1329 REFLECTORIZED SIGNS**

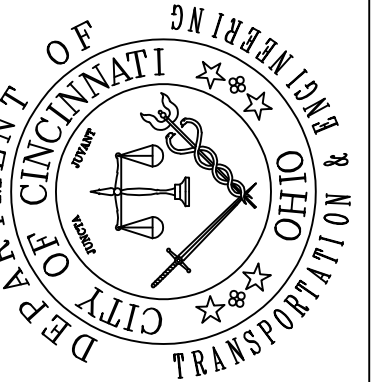
ALL OVERHEAD SIGNS WILL BE SUPPLIED BY THE CITY OF CINCINNATI SIGN SHOP. THE CONTRACTOR SHALL CONTACT THE CONSTRUCTION ENGINEER A MINIMUM OF TEN (10) WORKING DAYS TO ARRANGE TO PICK UP THE SIGNS TO BE INSTALLED. ENTRANCE HEADS FOR OVERHEAD REFLECTORIZED SIGNS SHALL BE UNPAINTED CAST ALUMINUM, CONTINUOUS SLOT TYPE (TRAFFIC PARTS NO. 7092 OR APPROVED EQUAL).

ANY SIGNS THAT ARE NOT INSTALLED ARE TO BE RETURNED THE SIGN SHOP IN NEW CONDITION.

THE CONTRACTOR IS TO INCLUDE IN THEIR BID PRICE FOR ITEM 1329, REFLECTORIZED SIGN, INSTALLATION ONLY ALL FURNISHING OF ALUMINUM DROP PIPE, STAINLESS STEEL MOUNTING HARDWARE, MAST ARM ATTACHMENT AND ANY OTHER HARDWARE NEEDED TO MOUNT EACH SIGN PER ODOT STANDARD DRAWING TC-16.22 AND PAINTED BLACK. CONTRACTOR TO SUPPLY AND INSTALL NYLON WASHER BETWEEN STAINLESS STEEL BOLT HEADS AND SIGN FACES.

**ITEM 1335 CABLE AND POLE IDENTIFICATION**

IN ADDITION TO ITEM 1335, ALL INTERCONNECT CABLE INSTALLATIONS SHALL INCLUDE THE INSTALLATION OF WEATHERPROOF PLASTIC CABLE TAGS WITH INDELIBLE, IMPRINTED TEXT "COC 591-6000", ZIP TIED TO THE CABLE AT EVERY CABINET ATTACHMENT POINT.



**CONTRACT DRAWING**  
 PRINTS NOT BEARING THIS SEAL ARE NOT VALID FOR BIDS AND ARE TO BE USED FOR CONTRACT PURPOSES.

**Department of Transportation and Engineering**  
 City of Cincinnati  
 800 Plum Street  
 Cincinnati, Ohio 45202

**3CDC Cincinnati Streetscape  
 Traffic Signal General Notes**

**Revisions**

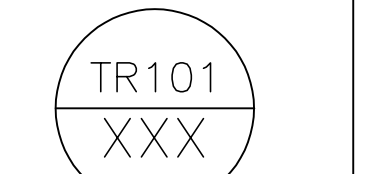
Date	No.
8/19/2024	
8/19/2024	
8/23/2024	
8/26/2024	

Drawn by: AKT  
 Designed by: AKT  
 Checked by: TGB  
 Reviewed by: MK

**Consultant**

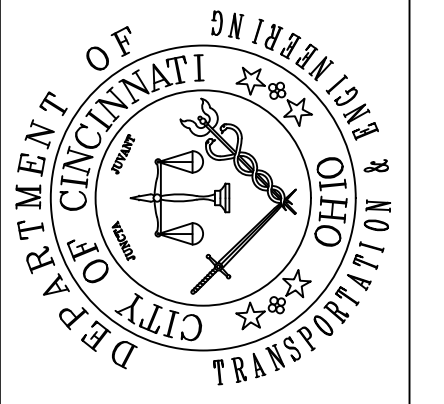
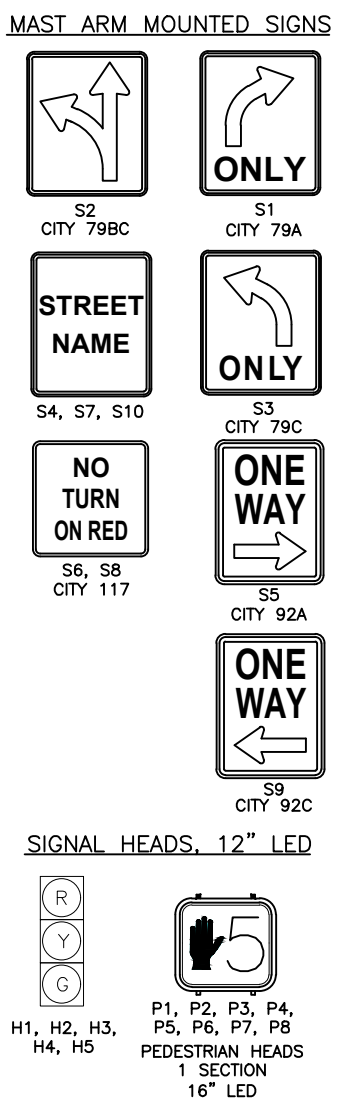


Project Number  
 86664  
 Task No.  
 3



**PROFESSIONAL STAMP**  
 SIGN: \_\_\_\_\_  
 DATE: \_\_\_\_\_

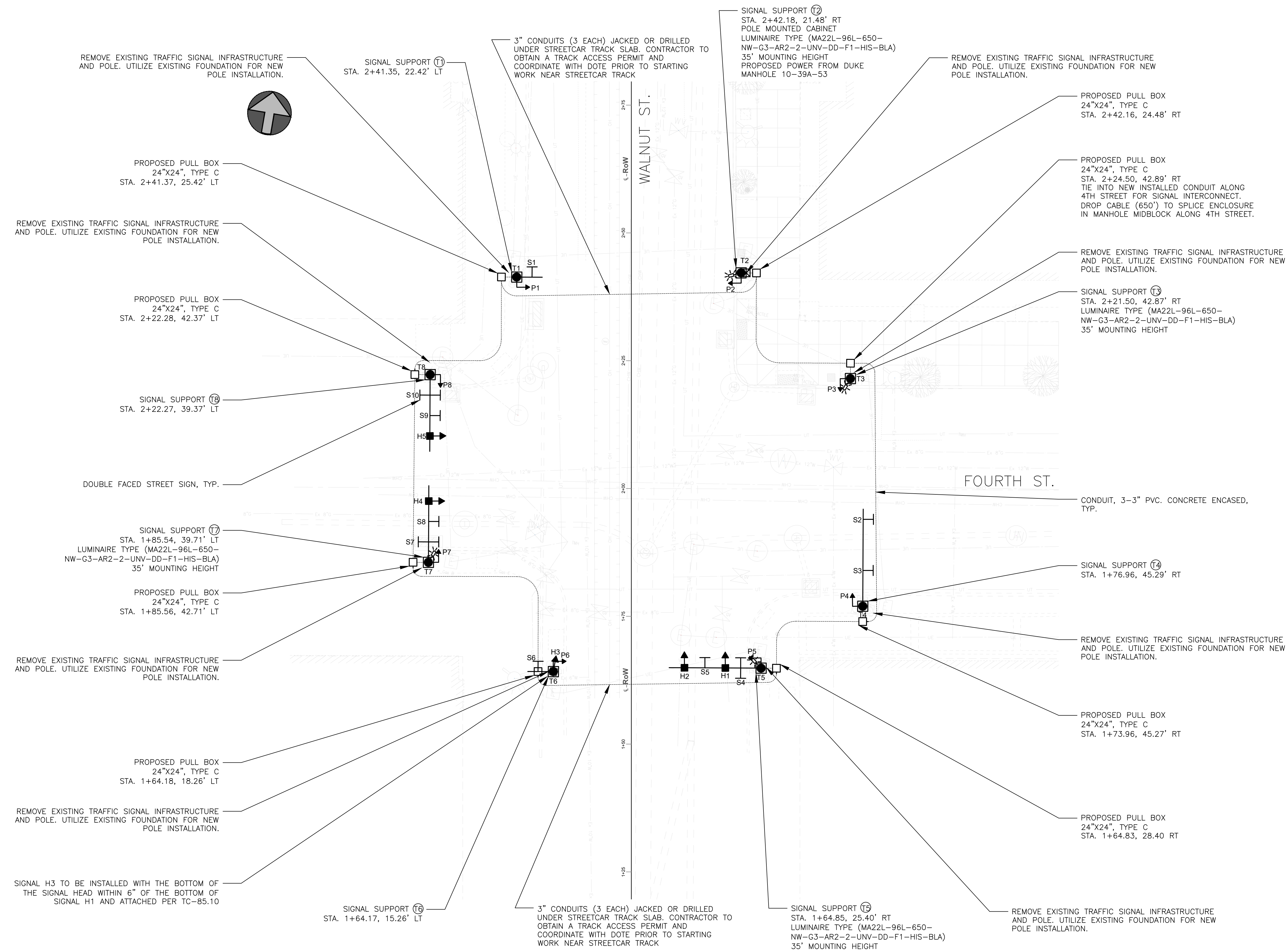
NOTE:  
 POLES WILL BE INSTALLED TO ACCEPT A STREETLIGHT. LIGHTING DETAILS PROVIDED BY OTHERS.  
 STREETLIGHTS ARE SHOWN AS ANGLED FOR VISUAL DIFFERENTIATION FROM MAST ARMS. REFER TO MAST ARM TABLES FOR ORIENTATION.  
 EXISTING PULL BOXES TO BE REMOVED UNLESS NEEDED TO COMPLETE LIGHTING CIRCUITS. SEE LIGHTING PLANS FOR DETAILS.



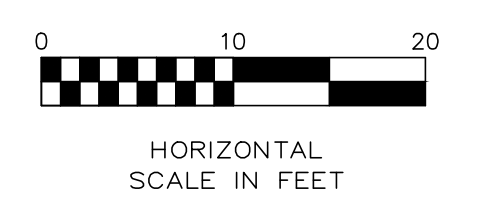
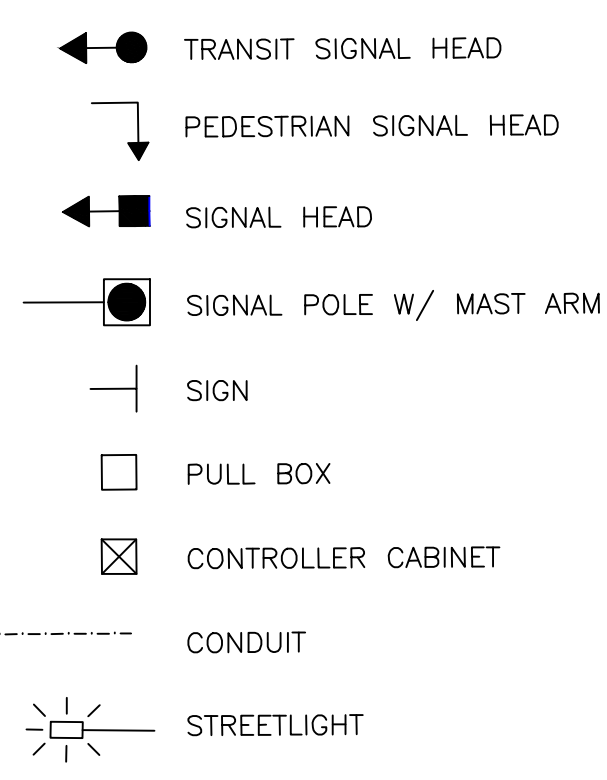
CONTRACT DRAWING  
 PRINTS NOT BEARING THIS STAMP WERE MADE FOR OTHER PURPOSES AND ARE CONSIDERED OBSOLETE FOR CONTRACT PURPOSES.

Department of Transportation and Engineering  
 City of Cincinnati  
 City Hall, 32nd Street  
 Cincinnati, Ohio 45202

WALNUT ST AND FOURTH ST  
 SIGNAL PLAN



PROPOSED LEGEND



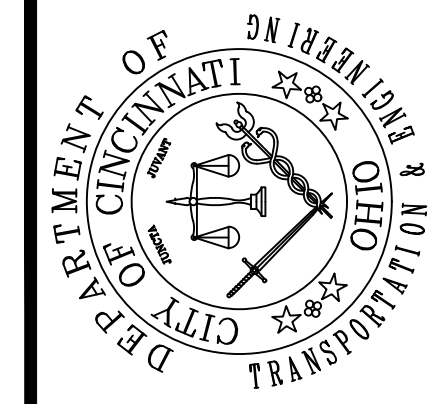
PROFESSIONAL STAMP  
 SIGN: \_\_\_\_\_  
 DATE: \_\_\_\_\_

Revisions

No.	Date	Description

Date	8/19/2024	Drawn by	AKT
Date	8/19/2024	Designed by	AKT
Date	8/23/2024	Checked by	TGB
Date	8/26/2024	Reviewed by	MK

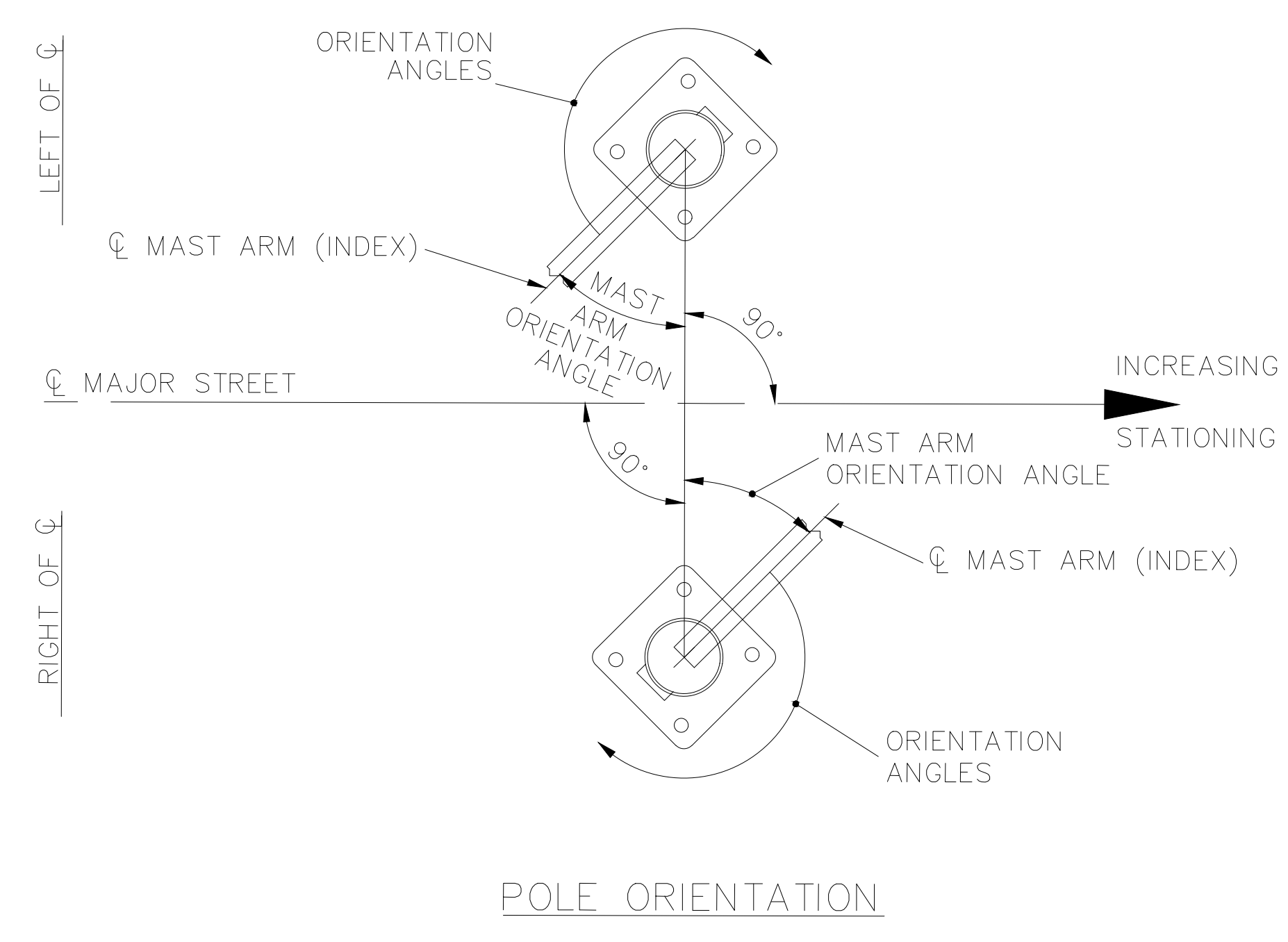
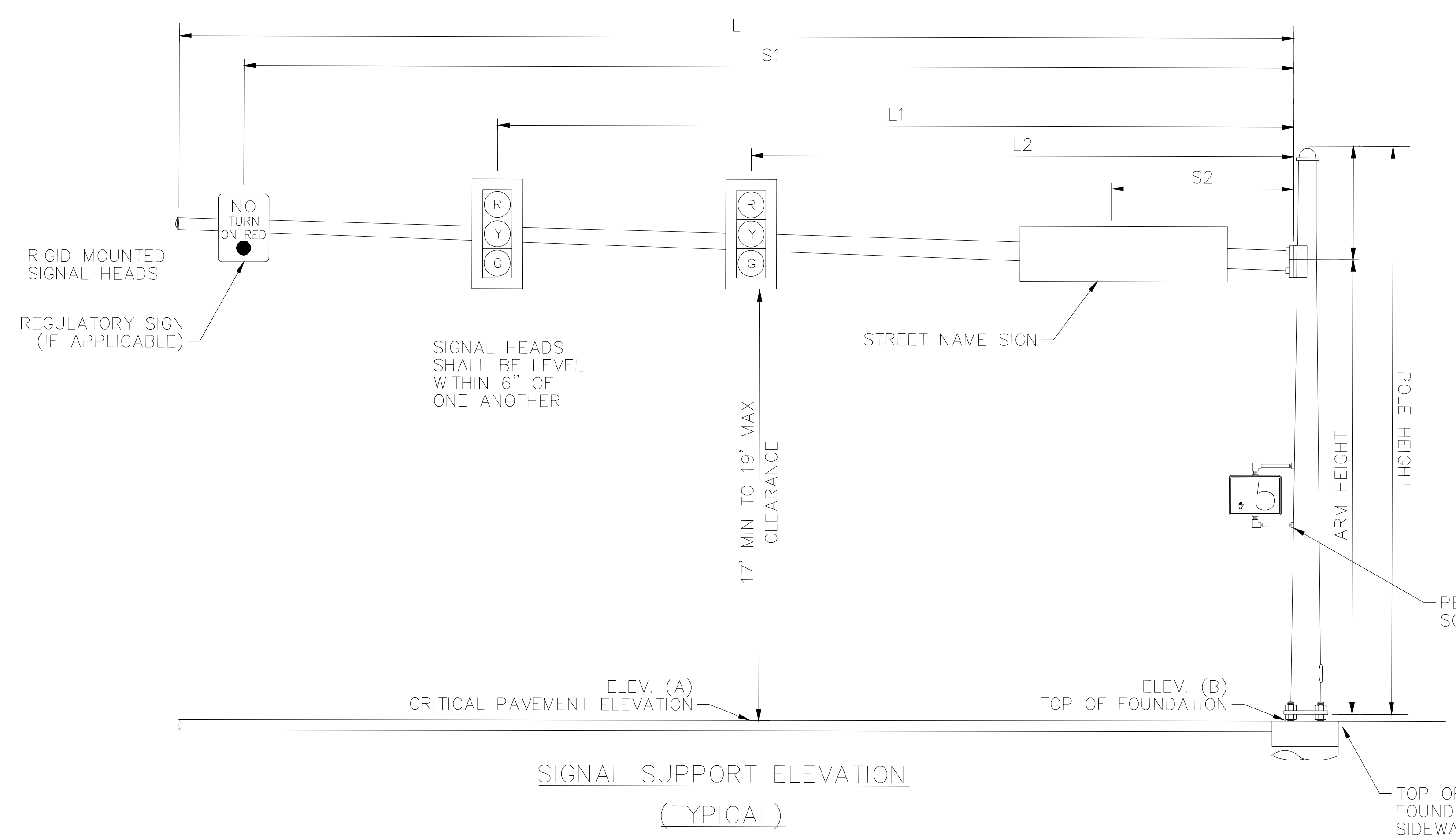
Consultant  
**HNTB**  
 Project Number  
 86664  
 Task No.  
 3



**CONTRACT DRAWING**  
 PRINTS NOT BEARING THIS STAMP WERE MADE FOR BIDS AND ARE TO BE CONSIDERED OBSOLETE FOR CONTRACT PURPOSES.

**Department of Transportation and Engineering**  
 City of Cincinnati  
 City Hall, 12th Street  
 Cincinnati, Ohio 45202

**WALNUT ST AND FOURTH ST  
 MAST ARM DETAILS**



PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED AS PER SCD TC-85.10 ON THE SUPPORT POLE.  
 TOP OF SIGNAL SUPPORT AND PEDESTAL FOUNDATIONS SHALL BE LEVEL WITH THE SIDEWALK ELEVATION WHERE ADA LANDINGS ARE ADJACENT; ELSEWHERE, FOUNDATIONS SHALL BE 2" (+/- 1") ABOVE GRADE PER TC-21.20

**MAST ARM TABLE - WALNUT ST AND FOURTH ST**

SUPPORT NO.	ARM DESIGNATION	STATION	OFFSET	ELEVATION		SIGNAL SUPPORT DETAILS										ANGLES (DEG.) FROM INDEX LINE									
				A (Pavement Elevation)	B (Top of Foundation)	DESIGN TYPE	DESIGN NO.	POLE HEIGHT FT	ARM HEIGHT FT	L FT	L1 FT	L2 FT	S1 FT	S2 FT	D1 FT	X FT	MAST ARM A INDEX LINE ANGLE DEG	MAST ARM B DEG	PEDESTRIAN SIGNAL DEG	PEDESTRIAN PUSHBUTTON DEG	POWER SERVICE DEG	SIGNAL CABINET DEG	BRACKET ARM DEG	HANDHOLE DEG	CABLE ENTRANCE 12" FROM TOP OF POLE EXTENSION DEG
T1	A	2+41.35	22.42 LT	541.34	541.85	TC-81.22	2	26	20	4	-	-	2	-	-	-	0	-	90	-	-	-	-	270	-
T2	-	2+42.18	21.48 RT	-	541.96	TC-81.22	2	36	-	-	-	-	-	-	-	-	0	-	270	-	-	180	0	90	-
T3	-	1+21.50	42.87 RT	-	541.73	TC-81.22	2	36	-	-	-	-	-	-	-	-	0	-	0	-	-	-	270	0	-
T4	A	1+76.96	45.29 RT	540.94	541.06	TC-81.22	2	26	20	18	-	-	16	6	-	-	90	-	270	-	-	-	-	270	-
T5	A	1+64.85	25.40 RT	539.21	539.92	TC-81.22	2	36	20	17	14	6	10	3	-	-	0	-	90	-	-	-	0	270	-
T6	A	1+64.17	15.26 LT	539.21	540.04	TC-81.22	2	26	20	4	0*	-	2	-	-	-	180	-	90	-	-	-	-	90	-
T7	A	1+85.54	39.71 LT	540.90	541.00	TC-81.22	2	36	20	14	11	-	7	3	-	-	270	-	90	-	-	-	0	180	-
T8	A	2+22.27	39.37 LT	541.50	541.85	TC-81.22	2	26	20	14	11	-	7	3	-	-	90	-	270	-	-	-	-	180	-

NOTE: SIGNAL H3 TO BE INSTALLED 180 DEGREES FROM INDEX LINE FOR POLE T6.  
 0\* - DENOTES SIGNAL HEADS ATTACHED TO POLE, MOUNTED AT 20'.

PROFESSIONAL STAMP  
 SIGN: \_\_\_\_\_  
 DATE: \_\_\_\_\_

Revisions

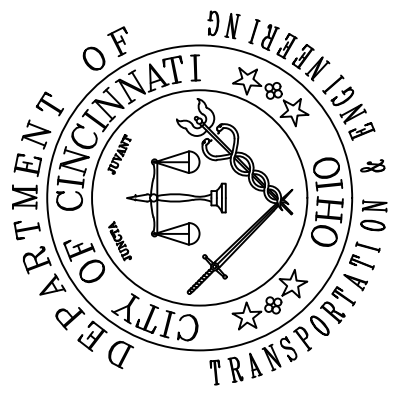
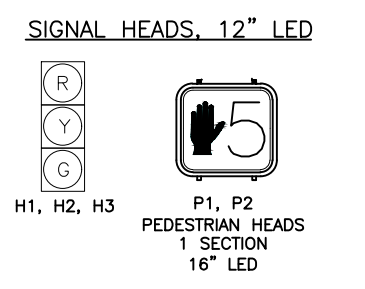
Date	No.

Drawn by: AKT  
 Designed by: AKT  
 Checked by: TGB  
 Reviewed by: MK

Consultant  
**HNTB**  
 Project Number: 86664  
 Task No.: 3  
 TR103  
 XXX



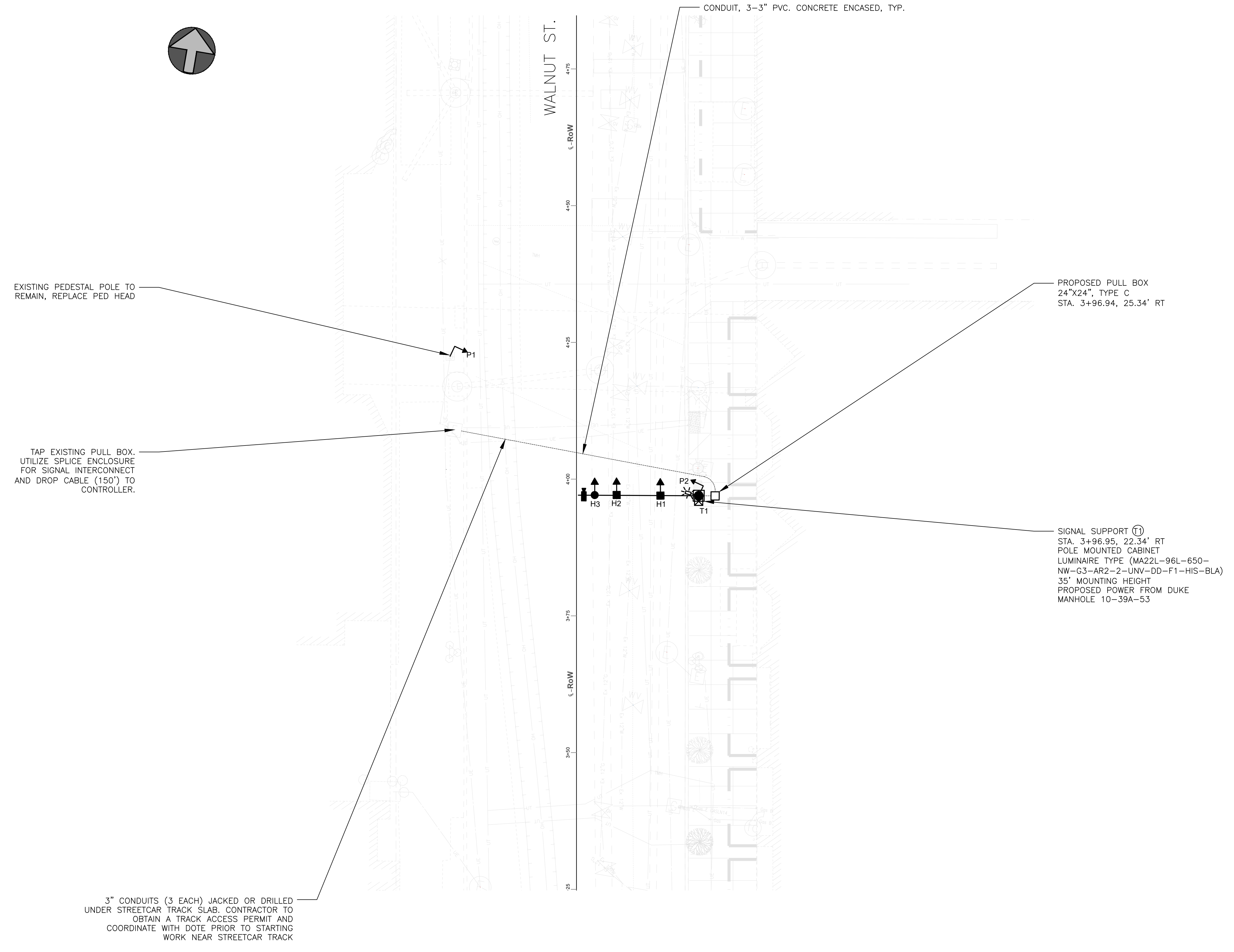
NOTE:  
 POLES WILL BE INSTALLED TO ACCEPT A STREETLIGHT. LIGHTING DETAILS PROVIDED BY OTHERS.  
 STREETLIGHTS ARE SHOWN AS ANGLED FOR VISUAL DIFFERENTIATION FROM MAST ARMS. REFER TO MAST ARM TABLES FOR ORIENTATION.  
 EXISTING PULL BOXES TO BE REMOVED UNLESS NEEDED TO COMPLETE LIGHTING CIRCUITS. SEE LIGHTING PLANS FOR DETAILS.



**CONTRACT DRAWING**  
 PRINTS NOT BEARING THIS STAMP WERE MADE FOR BIDS AND ARE TO BE CONSIDERED OBSOLETE FOR CONTRACT PURPOSES.

Department of Transportation and Engineering  
 City of Cincinnati  
 City Hall, Street Cincinnati, Ohio 45202

WALNUT ST BETWEEN FOURTH ST AND FIFTH ST  
 SIGNAL PLAN



EXISTING PEDESTAL POLE TO REMAIN, REPLACE PED HEAD

TAP EXISTING PULL BOX. UTILIZE SPICE ENCLOSURE FOR SIGNAL INTERCONNECT AND DROP CABLE (150') TO CONTROLLER.

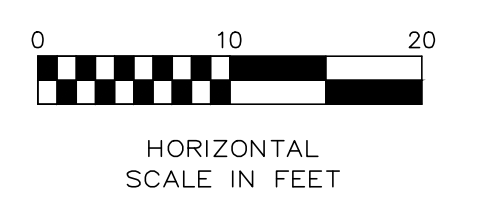
PROPOSED PULL BOX 24\"/>

SIGNAL SUPPORT (T) STA. 3+96.95, 22.34' RT POLE MOUNTED CABINET LUMINAIRE TYPE (MA22L-96L-650-NW-G3-AR2-2-UNV-DD-F1-HIS-BLA) 35' MOUNTING HEIGHT PROPOSED POWER FROM DUKE MANHOLE 10-38A-53

3\"/>

PROPOSED LEGEND

- ◀● TRANSIT SIGNAL HEAD
- ◀◻ PEDESTRIAN SIGNAL HEAD
- ◀■ SIGNAL HEAD
- SIGNAL POLE W/ MAST ARM
- SIGN
- PULL BOX
- ⊠ CONTROLLER CABINET
- CONDUIT
- ☼ STREETLIGHT
- STREETCAR VIDEO DETECTION



PROFESSIONAL STAMP

SIGN: \_\_\_\_\_  
 DATE: \_\_\_\_\_

Revisions

No.	Date

Date	Drawn by	Date	Designed by	Date	Checked by	Date	Reviewed by
8/19/2024	AKT	8/19/2024	AKT	8/23/2024	TGB	8/26/2024	MK

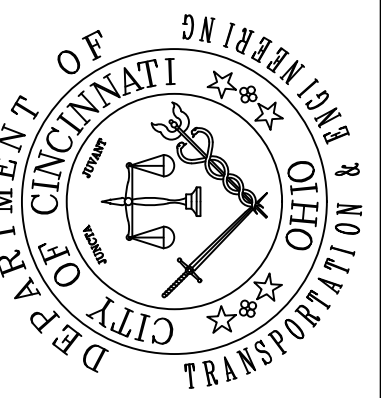
Consultant

**HNTB**

Project Number  
86664

Task No.  
3

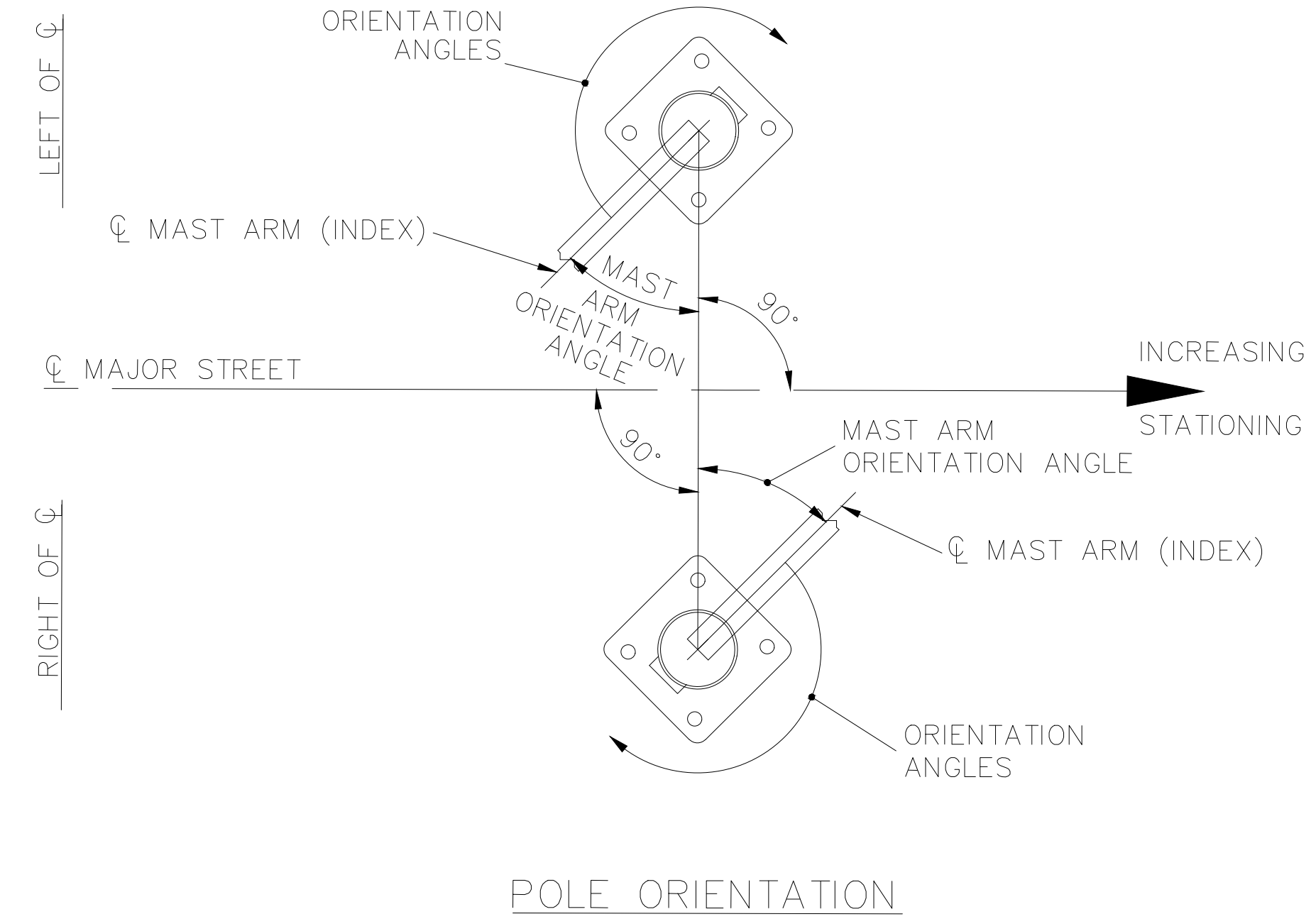
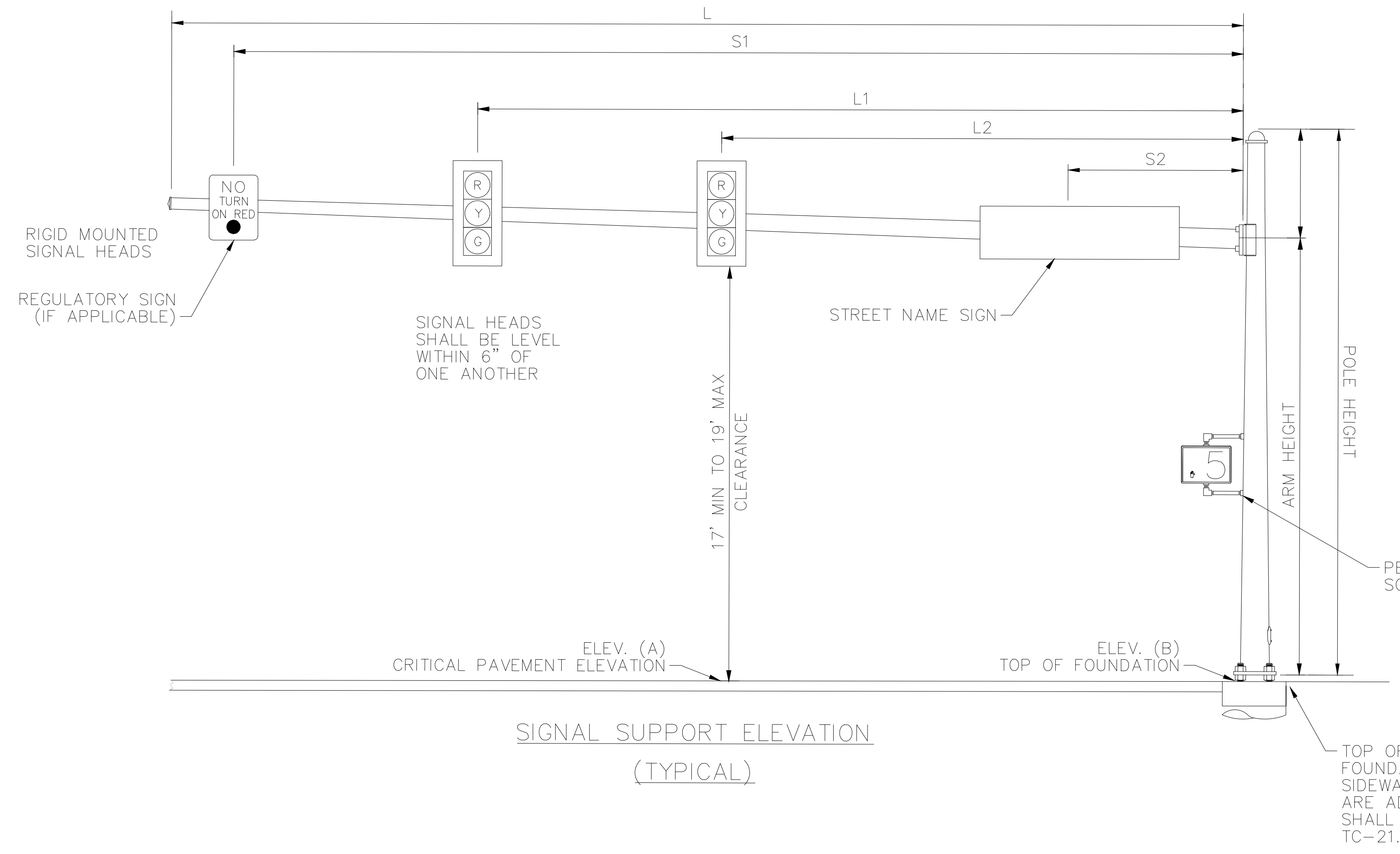
TR105  
XXX



**CONTRACT DRAWING**  
 PRINTS NOT BEARING THIS STAMP WERE MADE FOR BIDS AND ARE TO BE CONSIDERED OBSOLETE FOR CONTRACT PURPOSES.

Department of Transportation and Engineering  
 City of Cincinnati  
 565 Hill Street  
 Cincinnati, Ohio 45202

**WALNUT ST BETWEEN FOURTH ST AND FIFTH ST  
 MAST ARM DETAILS**



PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED AS PER SCD TC-85.10 ON THE SUPPORT POLE.  
 TOP OF SIGNAL SUPPORT AND PEDESTAL FOUNDATIONS SHALL BE LEVEL WITH THE SIDEWALK ELEVATION WHERE ADA LANDINGS ARE ADJACENT; ELSEWHERE, FOUNDATIONS SHALL BE 2" (+/- 1") ABOVE GRADE PER TC-21.20

**MAST ARM TABLE - WALNUT ST BETWEEN FOURTH ST AND FIFTH ST**

SUPPORT NO.	ARM DESIGNATION	STATION	OFFSET	ELEVATION		DESIGN TYPE	DESIGN NO.	SIGNAL SUPPORT DETAILS							MAST ARM A INDEX LINE ANGLE	ANGLES (DEG.) FROM INDEX LINE									
				A (Pavement Elevation)	B (Top of Foundation)			POLE HEIGHT	ARM HEIGHT	L	L1	L2	L3	D1		D2	X	MAST ARM B	PEDESTRIAN SIGNAL	PEDESTRIAN PUSHBUTTON	POWER SERVICE	SIGNAL CABINET	BRACKET ARM	HANDHOLE	CABLE ENTRANCE 12" FROM TOP OF POLE EXTENSION
				FT	FT																				
T1	A	3+96.95	22.34 RT	545.01	545.25	TC-81.22	2	36	20	21	18	14	6	20	-	-	0	-	105	-	-	270	0	90	-

PROFESSIONAL STAMP  
 SIGN: \_\_\_\_\_  
 DATE: \_\_\_\_\_

Revisions

Date	No.
8/19/2024	
8/19/2024	
8/23/2024	
8/26/2024	

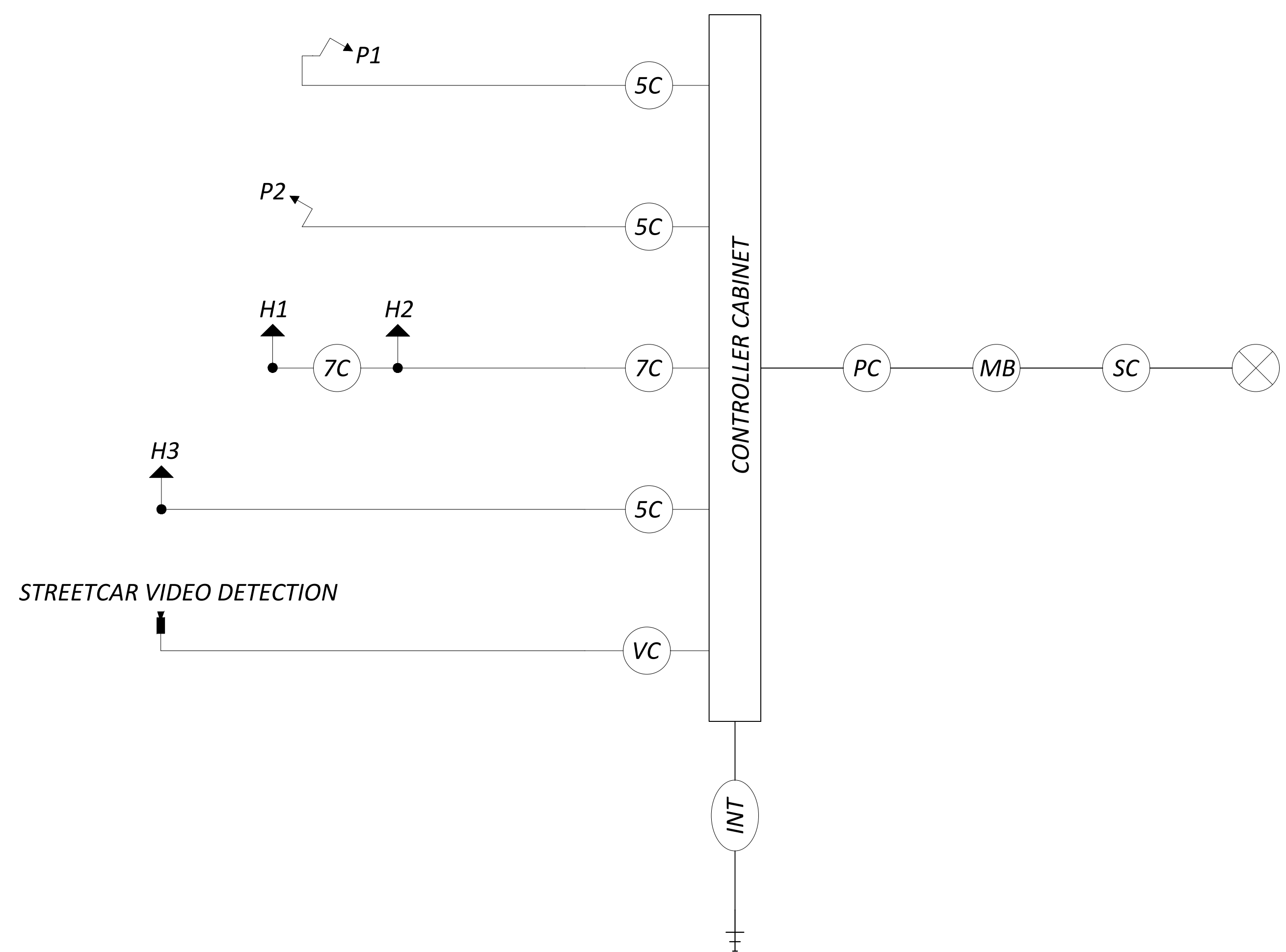
Drawn by AKT  
 Designed by AKT  
 Checked by TGB  
 Reviewed by MK

**HNTB**

Project Number 86654  
 Task No. 3

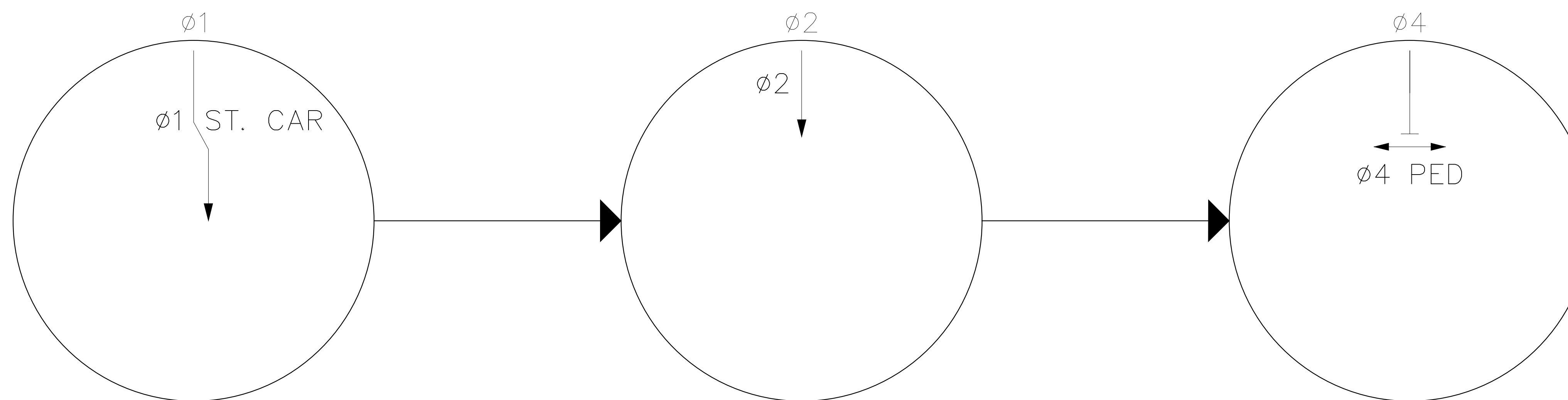
TR106  
 XXX

# WIRING DIAGRAM



# FIELD WIRING HOOKUP CHART (TEM FORM 496-16)

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH	SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
H3 (SB)	R	Φ1 R	R				
	Y	Φ1 Y					
	G	Φ1 G					
H1 (SB)	R	Φ2 R	R				
	Y	Φ2 Y					
	G	Φ2 G					
H2 (SB)	R	Φ2 R	R				
	Y	Φ2 Y					
	G	Φ2 G					
<b>PEDESTRIAN MOVEMENTS</b>							
	P1, P2 WEST	W	Φ4 PED/LS 4P G				
		DW	Φ4 PED/LS 4P R				OUT
<b>OVERLAPS</b>							
LS = LOAD SWITCH							



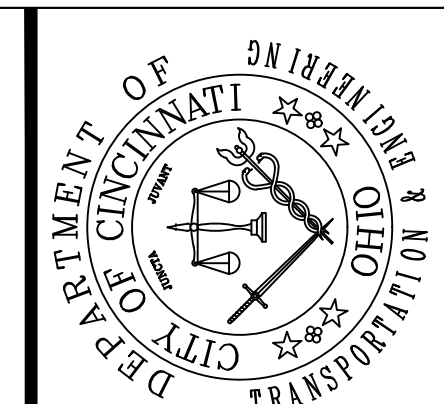
PHASING DIAGRAM

## LEGEND

	TRAFFIC SIGNAL, 4 OR 5 UNIT HEAD, 12"		LUMINAIRE, CONVENTIONAL		SERVICE CABLE, 3 CONDUCTOR, NO. X AWG
	TRAFFIC SIGNAL, 2 UNIT, 3 UNIT, OR PHB HEAD 12"		2/C NO. XX AWG (LEAD-IN CABLE)		POWER CABLE, 2 CONDUCTOR, NO. X AWG
	TRAFFIC SIGNAL, 3 UNIT HEAD, 12" WITH ARROWS		VEHICLE LOOP DETECTOR		SIGNAL SUPPORT POLE NO. ___
	PEDESTRIAN SIGNAL		SIGNAL CABLE, 5 CONDUCTOR, NO. XX AWG		METER BASE
	PEDESTRIAN PUSH BUTTON		SIGNAL CABLE, 7 CONDUCTOR, NO. XX AWG		NO. X AWG DISTRIBUTION CABLE
	DILEMMA ZONE RADAR DETECTION UNIT		RADAR DETECTION CABLE		SIGNAL CABLE, 4 CONDUCTOR, NO. XX AWG
	STOP LINE RADAR DETECTION UNIT		VIDEO CAMERA CABLE		SEPARATE LIGHTING & SIGNAL DISCONNECT SWITCHES
	VIDEO DETECTION CAMERA		INTERCONNECT CABLE		FLASHER CABINET
	PTZ CAMERA		PHOTOELECTRIC CELL		UNINTERRUPTIBLE POWER SUPPLY CABLE
	ETHERNET RADIO		POWER SOURCE		HAND/ OFF/ AUTO SWITCH

LEGEND	
VEHICLE Φ	
PERMITTED Φ	
PEDESTRIAN Φ	

NOTES:  
FULL DETAILS OF LIGHTING AND SIGNAL POWER LAYOUT TO BE COORDINATED WITH DUKE ENERGY AND CINCINNATI DEPARTMENT OF TRANSPORTATION ENGINEERING.



CONTRACT DRAWING  
PRINTS NOT BEARING THIS STAMP WERE MADE BY THE CONTRACTOR FOR BIDS AND ARE TO BE CONSIDERED OBSOLETE FOR CONTRACT PURPOSES.

Department of Transportation and Engineering  
City of Cincinnati  
City Hall - Street  
Cincinnati, Ohio 45202

WALNUT ST BETWEEN  
FOURTH ST AND FIFTH ST  
WIRING DETAILS

Revisions	No.

Date	Drawn by	Date	Designed by	Date	Checked by	Date	Reviewed by
8/19/2024	AKT	8/19/2024	AKT	8/23/2024	TGB	8/26/2024	MK

Consultant

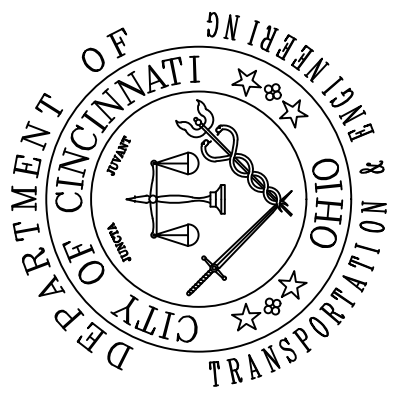
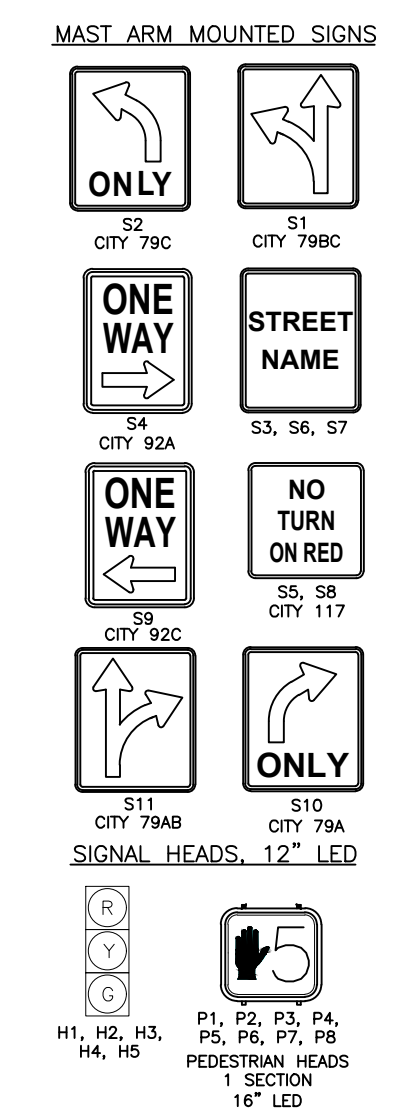
**HNTB**

Project Number  
86664  
Task No.  
3

PROFESSIONAL STAMP  
SIGN: \_\_\_\_\_  
DATE: \_\_\_\_\_

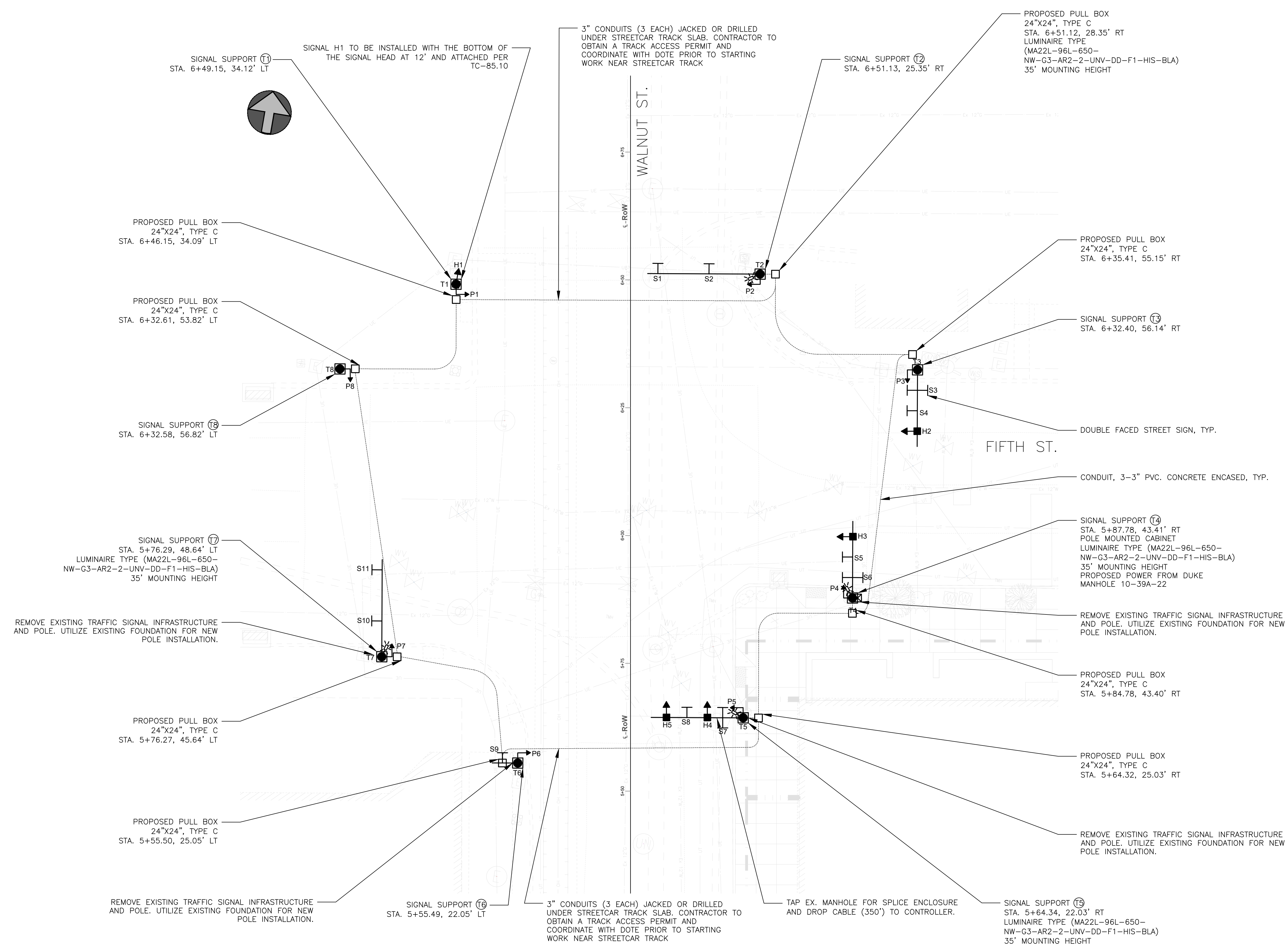
TR107  
XXX

NOTE:  
 POLES WILL BE INSTALLED TO ACCEPT A STREETLIGHT. LIGHTING DETAILS PROVIDED BY OTHERS.  
 STREETLIGHTS ARE SHOWN AS ANGLED FOR VISUAL DIFFERENTIATION FROM MAST ARMS. REFER TO MAST ARM TABLES FOR ORIENTATION.  
 EXISTING PULL BOXES TO BE REMOVED UNLESS NEEDED TO COMPLETE LIGHTING CIRCUITS. SEE LIGHTING PLANS FOR DETAILS.

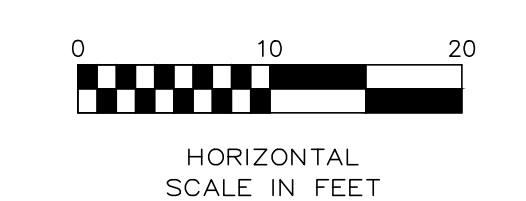
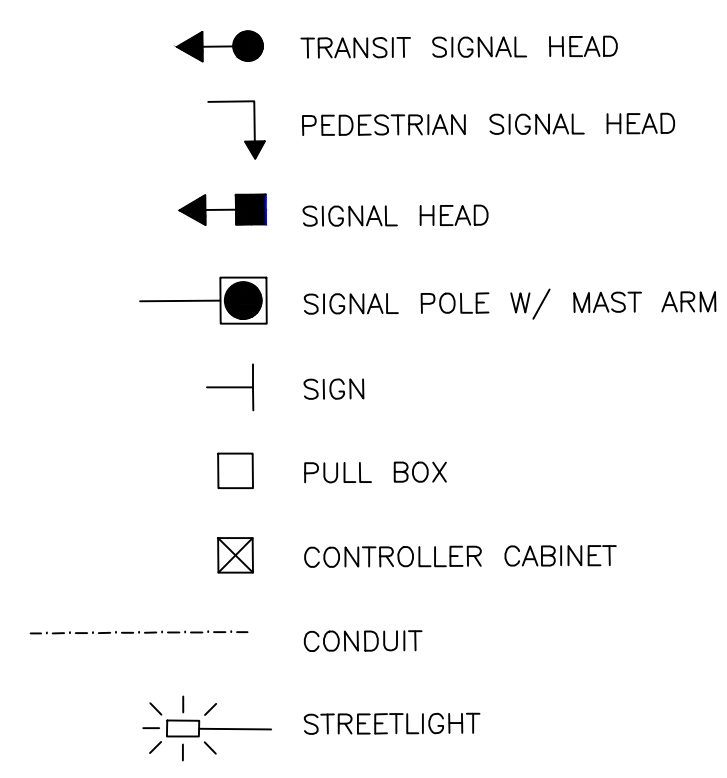


CONTRACT DRAWING  
 PRINTS NOT BEARING THIS STAMP WERE MADE WITHOUT AUTHORITY AND ARE TO BE CONSIDERED OBSOLETE FOR CONTRACT PURPOSES.

Department of Transportation and Engineering  
 City of Cincinnati  
 City Hall, 12th Street  
 Cincinnati, Ohio 45202



PROPOSED LEGEND



PROFESSIONAL STAMP  
 SIGN: \_\_\_\_\_  
 DATE: \_\_\_\_\_

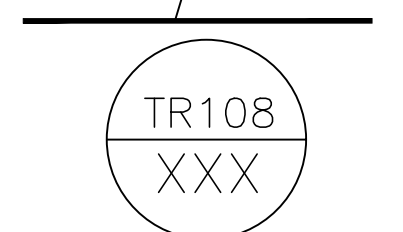
Revisions	No.

Date	By
8/19/2024	AKT
8/19/2024	AKT
8/23/2024	TGB
8/26/2024	MK

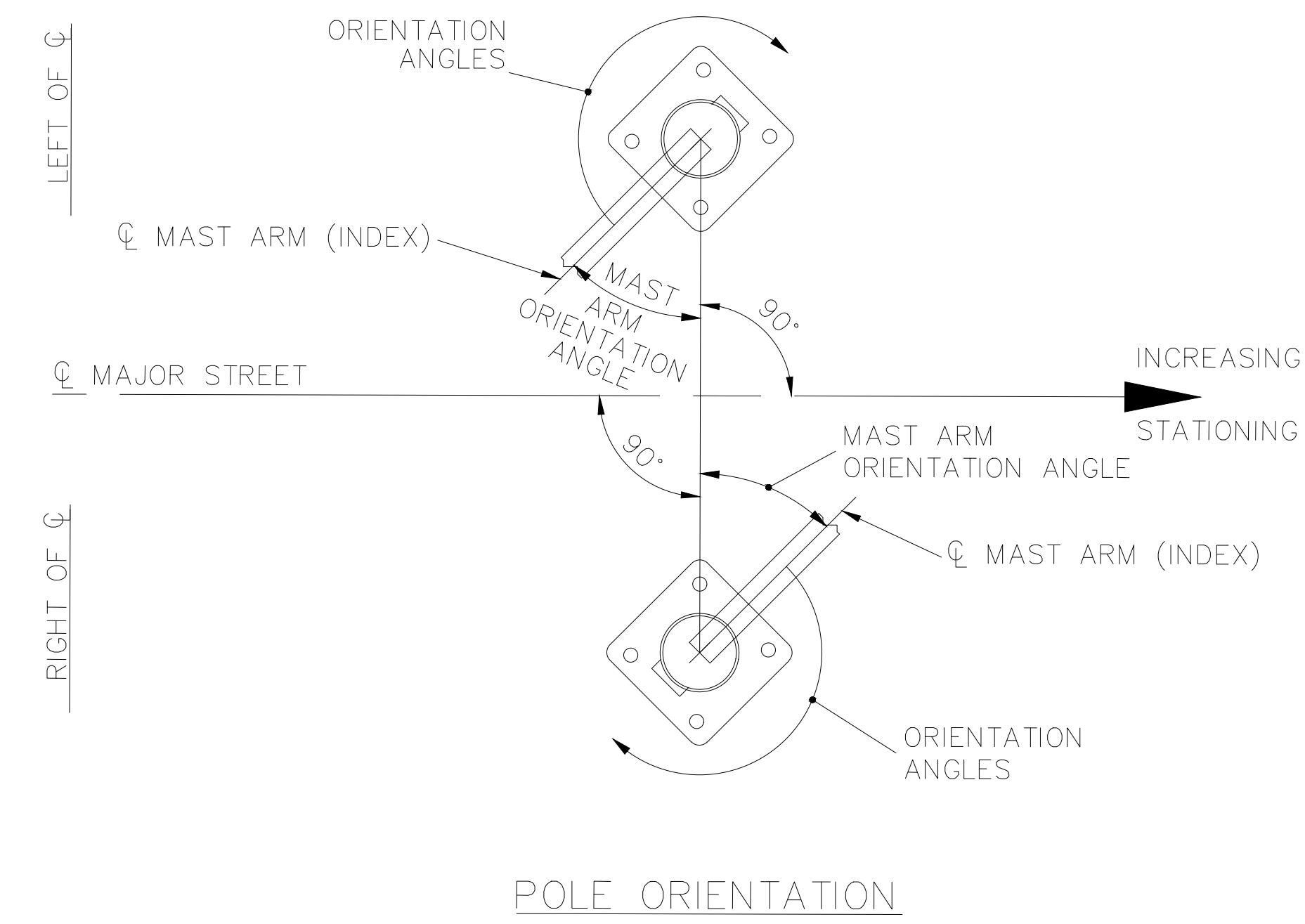
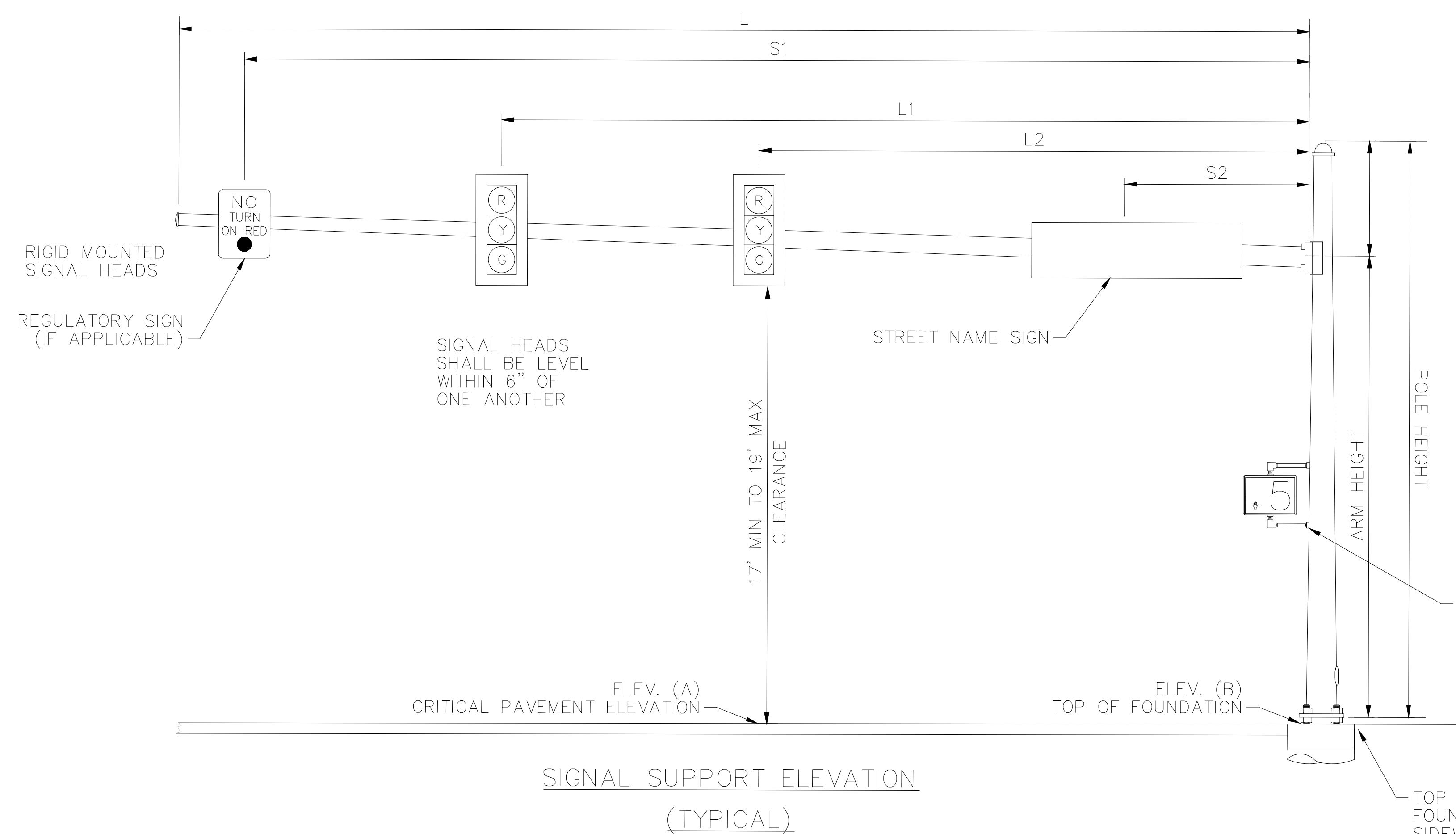
Consultant



Project Number  
86664  
 Task No.  
3







PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED AS PER SCD TC-85.10 ON THE SUPPORT POLE.

TOP OF SIGNAL SUPPORT AND PEDESTAL FOUNDATIONS SHALL BE LEVEL WITH THE SIDEWALK ELEVATION WHERE ADA LANDINGS ARE ADJACENT; ELSEWHERE, FOUNDATIONS SHALL BE 2" (+/- 1") ABOVE GRADE PER TC-21.20

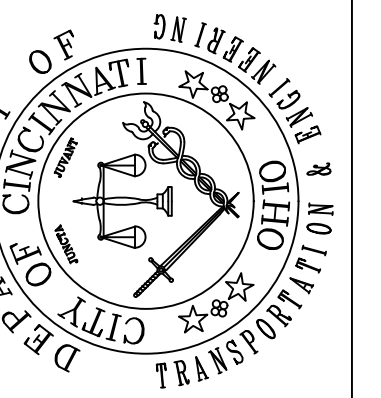
MAST ARM TABLE - WALNUT ST AND FIFTH ST

SUPPORT NO.	ARM DESIGNATION	STATION	OFFSET	ELEVATION		SIGNAL SUPPORT DETAILS											ANGLES (DEG.) FROM INDEX LINE									
				A (Pavement Elevation)	B (Top of Foundation)	DESIGN TYPE	DESIGN NO.	POLE HEIGHT	ARM HEIGHT	L	L1	L2	S1	S2	D1	X	MAST ARM A INDEX LINE ANGLE	MAST ARM B	PEDESTRIAN SIGNAL	PEDESTRIAN PUSHBUTTON	POWER SERVICE	SIGNAL CABINET	BRACKET ARM	HANDHOLE	CABLE ENTRANCE 12" FROM TOP OF POLE EXTENSION	
																										FT
T1	-	6+49.15	34.12 LT	-	549.05	TC-81.22	2	26	-	-	0*	-	-	-	-	-	-	0	-	90	-	-	-	-	180	-
T2	A	6+51.13	25.35 RT	549.11	549.51	TC-81.22	2	36	20	21	-	-	19	9	-	-	0	-	270	-	-	-	0	90	-	
T3	A	6+32.40	56.14 RT	549.28	549.79	TC-81.22	2	26	20	14	11	-	7	3	-	-	270	-	90	-	-	-	0	270	-	
T4	A	5+87.78	43.41 RT	548.76	548.76	TC-81.22	2	36	20	14	11	-	7	3	-	-	90	-	270	-	-	90	0	270	-	
T5	A	5+64.34	22.03 RT	548.14	548.20	TC-81.22	2	36	20	17	14	6	10	3	-	-	0	-	90	-	-	-	0	90	-	
T6	A	5+55.49	22.05 LT	548.14	548.45	TC-81.22	2	26	20	4	-	-	2	-	-	-	180	-	90	-	-	-	0	90	-	
T7	A	5+76.29	48.64 LT	548.28	548.54	TC-81.22	2	36	20	18	-	-	16	6	-	-	270	-	90	-	-	-	0	180	-	
T8	-	6+32.58	56.82 LT	-	548.78	TC-81.22	2	26	-	-	-	-	-	-	-	-	0	-	0	-	-	-	0	270	-	

NOTE: SIGNAL H1 TO BE INSTALLED 0 DEGREES FROM INDEX LINE FOR POLE T1.  
0\* - DENOTES SIGNAL HEADS ATTACHED TO POLE, MOUNTED AT 12'

PROFESSIONAL STAMP

SIGN: \_\_\_\_\_  
DATE: \_\_\_\_\_



CONTRACT DRAWING  
PRINTS NOT BEARING THIS STAMP WERE MADE PRIOR TO ADVERTISING AND ARE CONSIDERED OBSOLETE FOR CONTRACT PURPOSES.

Department of Transportation and Engineering  
City of Cincinnati  
City Hall  
801 Plum Street  
Cincinnati, Ohio 45202

WALNUT ST AND FIFTH ST  
MAST ARM DETAILS

Revisions

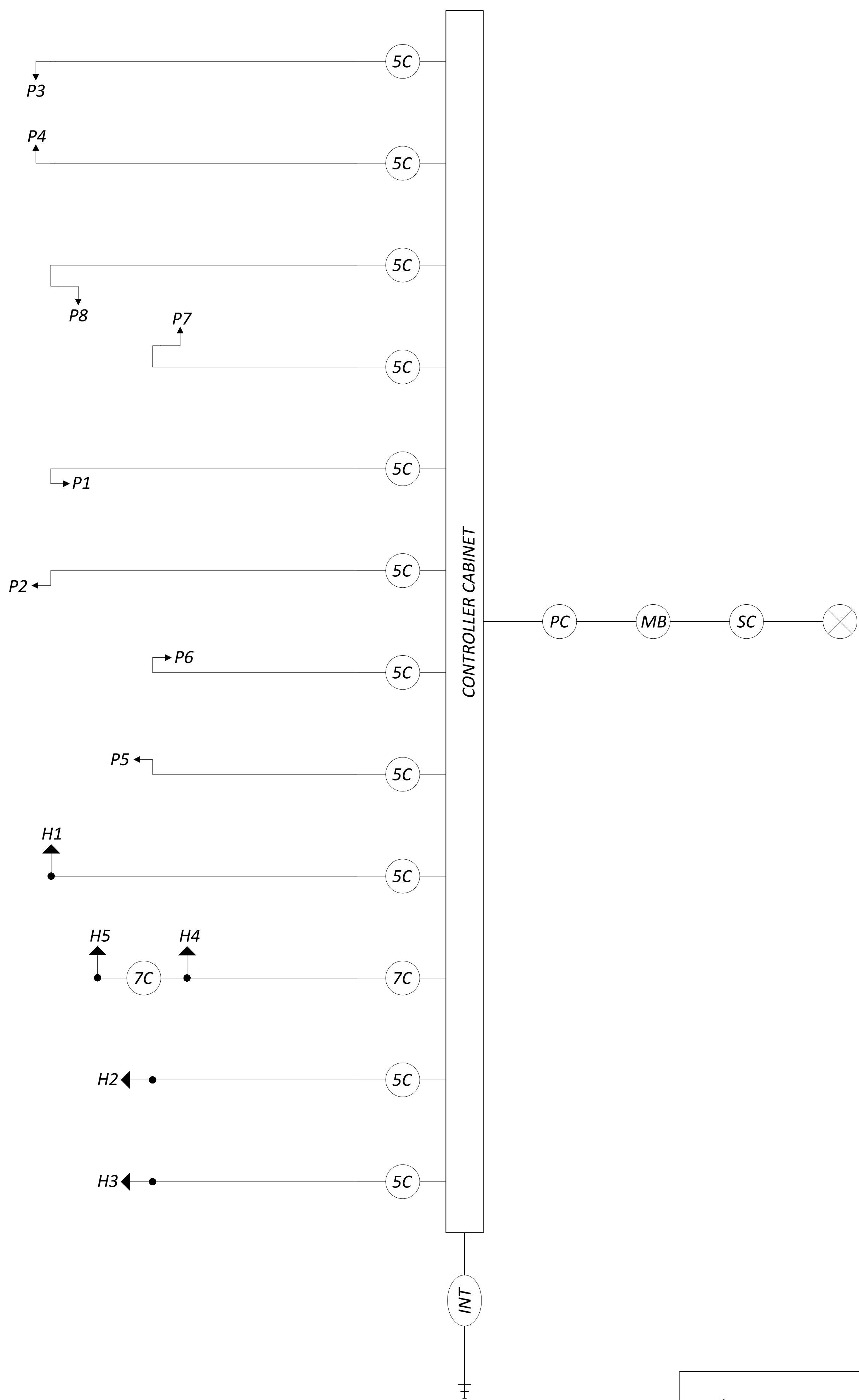
No.	Date	Description

Drawn by: AKT  
Designed by: AKT  
Checked by: TGB  
Reviewed by: MK

Consultant

Project Number: 86664  
Task No.: 3

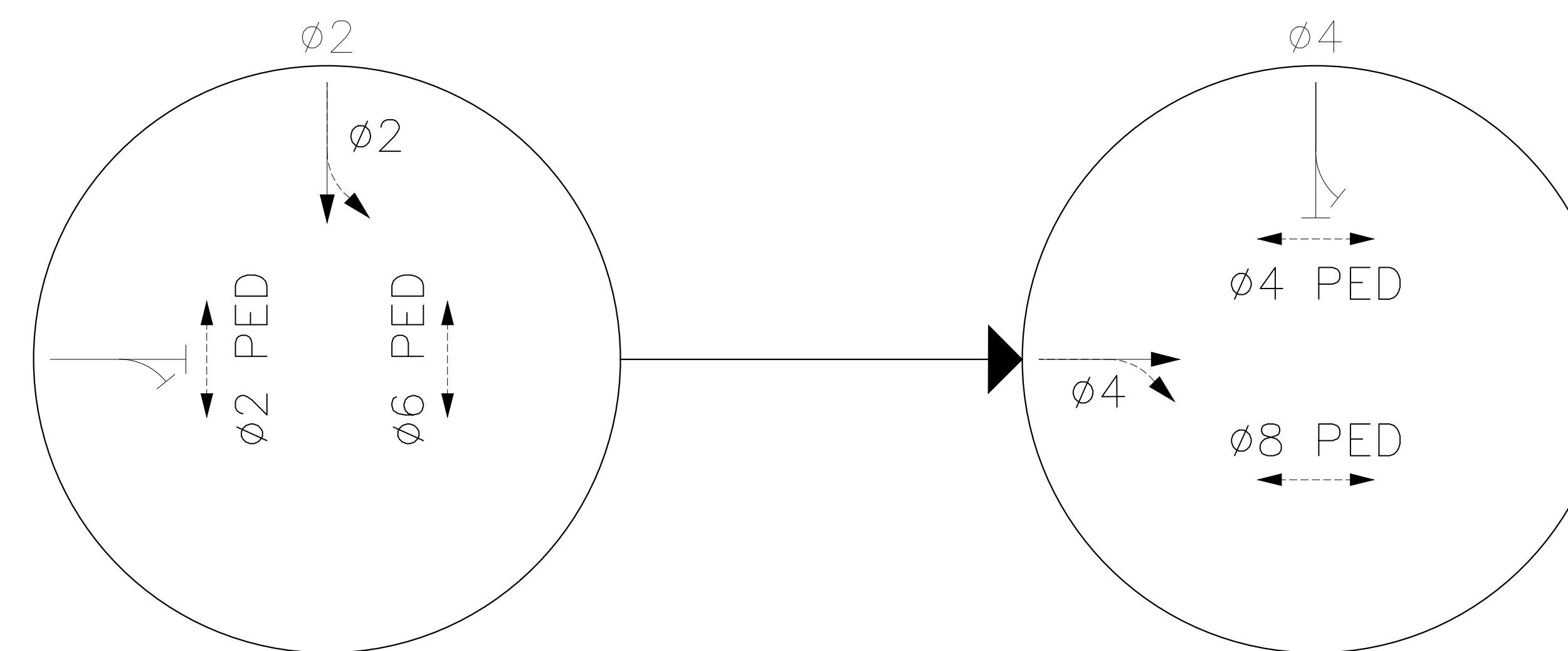
# WIRING DIAGRAM



# FIELD WIRING HOOKUP CHART (TEM FORM 496-16)

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH	SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
H1 (SB)	R	Φ2 R	R				
	Y	Φ2 Y					
	G	Φ2 G					
H4 (SB)	R	Φ2 R	R				
	Y	Φ2 Y					
	G	Φ2 G					
H5 (SB)	R	Φ2 R	R				
	Y	Φ2 Y					
	G	Φ2 G					
H2 (EB)	R	Φ4 R	R				
	Y	Φ4 Y					
	G	Φ4 G					
H3 (EB)	R	Φ4 R	R				
	Y	Φ4 Y					
	G	Φ4 G					
PEDESTRIAN MOVEMENTS							
	P7, P8 SOUTH	W	Φ2 PED/LS 2P G			OUT	
		DW	Φ2 PED/LS 2P R				
	P1, P2 WEST	W	Φ4 PED/LS 4P G			OUT	
		DW	Φ4 PED/LS 4P R				
	P3, P4 NORTH	W	Φ6 PED/LS 6P G			OUT	
		DW	Φ6 PED/LS 6P R				
	P5, P6 EAST	W	Φ8 PED/LS 8P G			OUT	
		DW	Φ8 PED/LS 8P R				
OVERLAPS							

LS = LOAD SWITCH



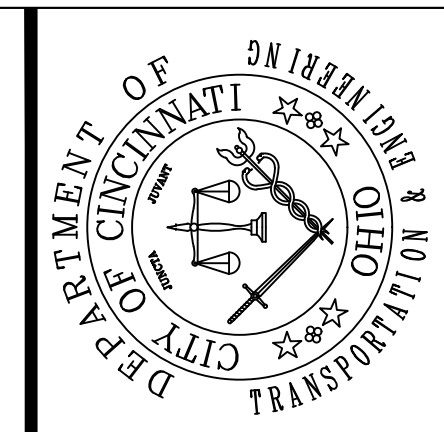
PHASING DIAGRAM

LEGEND	
VEHICLE φ	→
PERMITTED φ	→
PEDESTRIAN φ	→

### LEGEND

	TRAFFIC SIGNAL, 4 OR 5 UNIT HEAD, 12"		LUMINAIRE, CONVENTIONAL		SERVICE CABLE, 3 CONDUCTOR, NO. X AWG
	TRAFFIC SIGNAL, 2 UNIT, 3 UNIT, OR PHB HEAD 12"		2/C NO. XX AWG (LEAD-IN CABLE)		POWER CABLE, 2 CONDUCTOR, NO. X AWG
	TRAFFIC SIGNAL, 3 UNIT HEAD, 12" WITH ARROWS		VEHICLE LOOP DETECTOR		SIGNAL SUPPORT POLE NO. ___
	PEDESTRIAN SIGNAL		SIGNAL CABLE, 5 CONDUCTOR, NO. XX AWG		METER BASE
	PEDESTRIAN PUSH BUTTON		SIGNAL CABLE, 7 CONDUCTOR, NO. XX AWG		NO. X AWG DISTRIBUTION CABLE
	DILEMMA ZONE RADAR DETECTION UNIT		RADAR DETECTION CABLE		SIGNAL CABLE, 4 CONDUCTOR, NO. XX AWG
	STOP LINE RADAR DETECTION UNIT		VIDEO CAMERA CABLE		SEPARATE LIGHTING & SIGNAL DISCONNECT SWITCHES
	VIDEO DETECTION CAMERA		INTERCONNECT CABLE		FLASHER CABINET
	PTZ CAMERA		PHOTOELECTRIC CELL		UNINTERRUPTIBLE POWER SUPPLY CABLE
	ETHERNET RADIO		POWER SOURCE		HAND/ OFF/ AUTO SWITCH

NOTES:  
FULL DETAILS OF LIGHTING AND SIGNAL POWER LAYOUT TO BE COORDINATED WITH DUKE ENERGY AND CINCINNATI DEPARTMENT OF TRANSPORTATION ENGINEERING.



CONTRACT DRAWING  
PRINTS NOT BEARING THIS STAMP WERE MADE BY UNAUTHORIZED PERSONS FOR BIDS AND ARE TO BE CONSIDERED OBSOLETE FOR CONTRACT PURPOSES.

Department of Transportation and Engineering  
City of Cincinnati  
City Hall, 1000 Elm Street  
Cincinnati, Ohio 45202

WALNUT ST AND FIFTH ST WIRING DETAILS

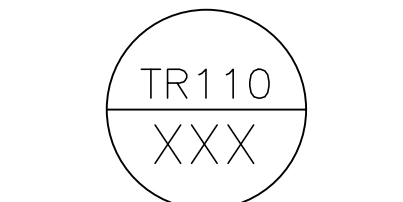
Date	Revisions
8/19/2024	
8/19/2024	
8/23/2024	
8/26/2024	

Consultant

**HNTB**

Project Number  
86664  
Task No.  
3

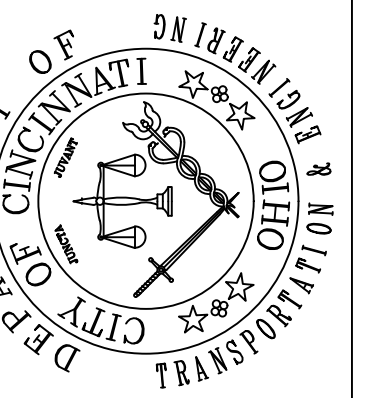
PROFESSIONAL STAMP  
SIGN: \_\_\_\_\_  
DATE: \_\_\_\_\_



CNOTE TO PROVIDE THIS DETAIL

PRINTS NOT BEARING  
THIS STAMP WERE MADE  
PRIOR TO ADVERTISING  
AND ARE CONSIDERED  
OBSOLETE FOR  
CONTRACT PURPOSES.

PRINTS NOT BEARING  
THIS STAMP WERE MADE  
PRIOR TO ADVERTISING  
AND ARE CONSIDERED  
OBSOLETE FOR  
CONTRACT PURPOSES.



**CONTRACT  
DRAWING**  
PRINTS NOT BEARING  
THIS STAMP WERE MADE  
PRIOR TO ADVERTISING  
AND ARE CONSIDERED  
OBSOLETE FOR  
CONTRACT PURPOSES.

**Department of  
Transportation  
and Engineering**  
City of Cincinnati  
801 Plum Street  
Cincinnati, Ohio 45202

**EXISTING FOUNDATION  
REUSE DETAILS**

Revisions	
No.	Date

Drawn by	Date
Designed by	Date
Checked by	Date
Reviewed by	Date

Consultant

PROFESSIONAL STAMP

SIGN: \_\_\_\_\_  
DATE: \_\_\_\_\_

Project Number  
86664  
Task No.  
3

