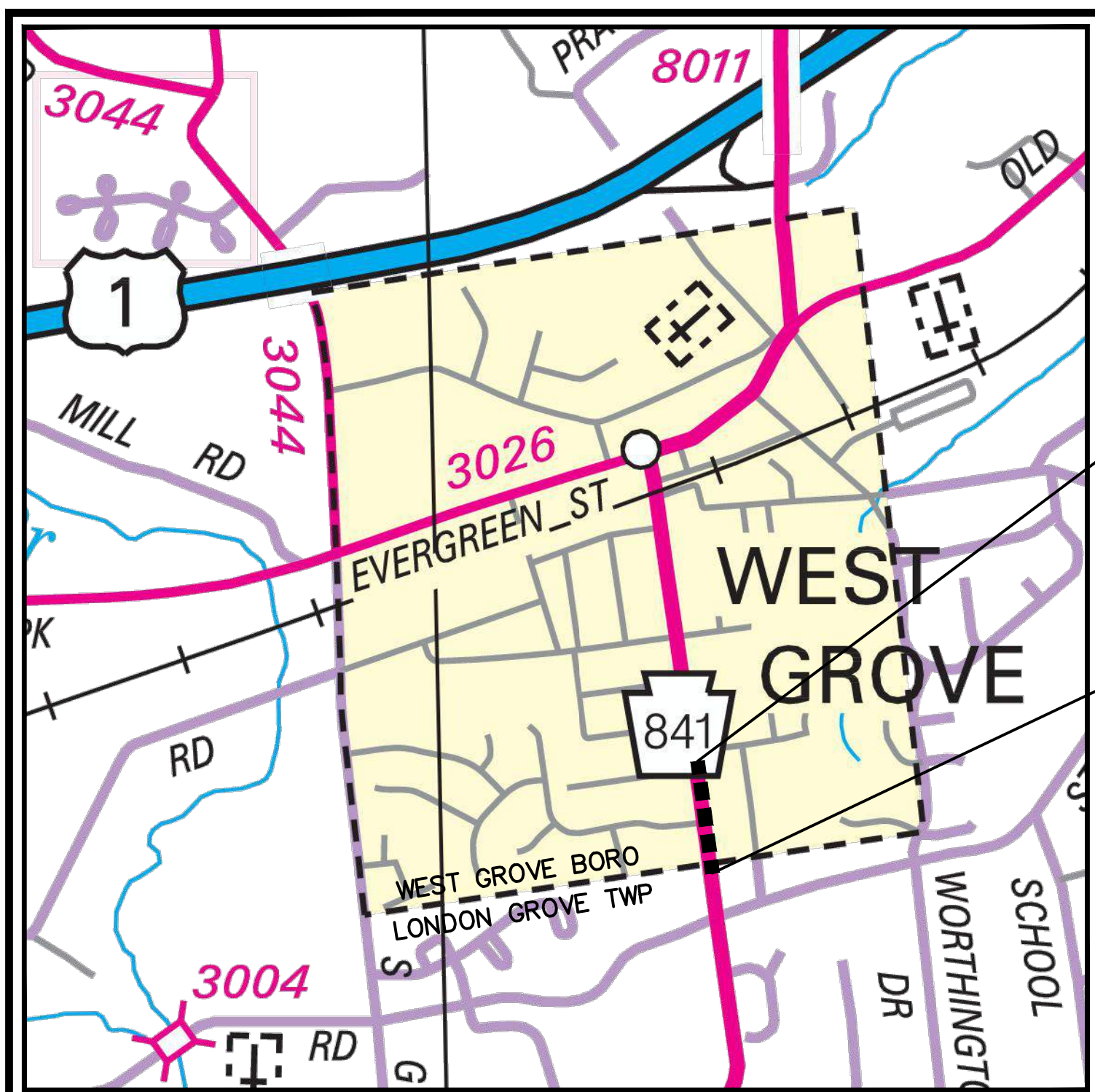


|     | DISTRICT | COUNTY  | TOWNSHIP | BOROUGH    | ROUTE | SECTION | TOTAL SHEETS |
|-----|----------|---------|----------|------------|-------|---------|--------------|
| HOP | 6-0      | CHESTER | ----     | WEST GROVE | 0841  | ----    | 12           |



LIMIT OF WORK  
 SR 0841 (PROSPECT AVENUE)  
 STA 9+00.00  
 SEG 0160 OFF 1131  
 WEST GROVE BOROUGH  
 CHESTER COUNTY

LIMIT OF WORK  
 SR 0841 (PROSPECT AVENUE)  
 STA 1+00.00  
 SEG 0160 OFF 0331  
 LONDON GROVE TOWNSHIP  
 CHESTER COUNTY

# HIGHWAY OCCUPANCY PERMIT PLANS CURB AND SIDEWALK IMPROVEMENTS FOR WEST GROVE BOROUGH

## STATE ROUTE 0841 (PROSPECT AVENUE) WEST GROVE BOROUGH & LONDON GROVE TOWNSHIP CHESTER COUNTY, PENNSYLVANIA

FROM STA. 1+00.00 TO STA. 9+00.00 LENGTH 800.00 FT. 0.15 MI.

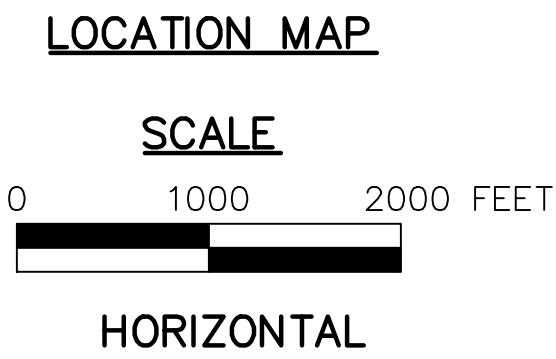
FROM SEG. 0160 OFFSET 0331 TO SEG 0160 OFFSET 1131

HOP APPLICATION NO. 303957

PREPARED FOR:  
**WEST GROVE BOROUGH**  
 117 ROSEHILL AVENUE  
 PO BOX 61  
 WEST GROVE, PA 19390  
 (610) 869-2792  
 GREG McCUMMINGS, WEST GROVE BOROUGH MANAGER  
 GMCCUMMINGS@WESTGROVEBOROUGH.ORG

**SHEET INDEX:**

|                |  |
|----------------|--|
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| SHEET 3 OF 12  | MAINTENANCE & PROTECTION OF TRAFFIC (PATA FIGURES) |
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| SHEET 5 OF 12  | CONSTRUCTION PLAN                                  |
| SHEET 6 OF 12  | TURNING TEMPLATES                                  |
| SHEET 7 OF 12  | CURB RAMP DETAILS                                  |
| SHEET 8 OF 12  | DRIVEWAY APRON DETAILS                             |
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| SHEET 10 OF 12 | CROSS-SECTIONS                                     |
| SHEET 11 OF 12 | CROSS-SECTIONS/WALL DETAILS                        |
| SHEET 12 OF 12 | SIGHT DISTANCE PLAN                                |



|   |  |
|---|--|
| TRAFFIC ROUTE .....                       |  |
| REMAINING STATE ROAD AND IDENTIFIER ..... |  |
| STATE MAINTAINED BRIDGE .....             |  |
| TOWNSHIP ROAD .....                       |  |
| OTHER ROAD .....                          |  |
| UNITED STATES TRAFFIC ROUTE .....         |  |
| PENNSYLVANIA TRAFFIC ROUTE .....          |  |
| RAILROAD (IN SERVICE) .....               |  |
| TOWNSHIP LINE .....                       |  |
| INCORPORATED BOROUGH .....                |  |
| OTHER COMMUNITIES .....                   |  |
| CEMETERY .....                            |  |

**ENGINEER**  
 HANOVER ENGINEERING ASSOCIATES, INC.  
 LANCASTER - LEBANON OFFICE  
 1438 W. MAIN STREET, SUITE E  
 EPHRATA, PA 17522-1364  
 PHONE: (717) 721-7444

DESIGN DESIGNATION S.R. 0841

|                           |                        |                    |                |
|---------------------------|------------------------|--------------------|----------------|
| HIGHWAY CLASSIFICATION    | - URBAN-MINOR ARTERIAL | CURRENT A.D.T.     | - 3832 (2022)  |
| TYPOLOGY                  | - XXXXX                | DESIGN YEAR A.D.T. | - XXXXX (2024) |
| DESIGN SPEED              | - 30 M.P.H.            | D.H.V.             | - XXXXX        |
| PAVEMENT WIDTH            | - 22'                  | D FACTOR           | - 57%          |
| SHOULDER WIDTH WEST BOUND | - N/A                  | K FACTOR           | - 10%          |
| SHOULDER WIDTH EAST BOUND | - N/A                  | T FACTOR           | - 5%           |
| MEDIAN WIDTH              | - N/A                  | TRUCK%             | - 5%           |

PREPARED BY:  
 HANOVER ENGINEERING ASSOCIATES, INC.  
 1438 W. MAIN STREET, SUITE E  
 EPHRATA, PA 17522-1364

*Robert J. Lynn*  
 REG. PROF. ENGR.

06/25/24  
 DATE

Y:\Projects\Municipal\West Grove Borough\WGB23-12 Prospect Ave HOP\WGB23-12 - Design-Base.dwg Jun 25, 2024 3:14pm

|                    |           |       |         |          |
|--------------------|-----------|-------|---------|----------|
| DISTRICT           | COUNTY    | ROUTE | SECTION | SHEET    |
| 6-0                | CHESTER   | 0841  | ----    | 02 OF 12 |
| WEST GROVE BOROUGH |           |       |         |          |
| REVISION NUMBER    | REVISIONS |       |         | DATE BY  |

**PENNDOT GENERAL NOTES:**

- THE EXISTING SPEED LIMIT ON S.R. 0841 IS 30 MPH.
- THE RIGHT-OF-WAY IS FREE ACCESS.
- ALL WORK IN PA STATE HIGHWAY RIGHT-OF-WAY IS TO BE PERFORMED CONSISTENT WITH THE FOLLOWING:
  - PENNDOT PUBLICATION 13M, DESIGN MANUAL PART 2 – HIGHWAY DESIGN
  - PENNDOT PUBLICATION 34, APPROVED AGGREGATE PRODUCERS (BULLETIN 14)
  - PENNDOT PUBLICATION 35, APPROVED CONSTRUCTION MATERIALS (BULLETIN 15)
  - PENNDOT PUBLICATION 41, PRODUCERS OF BITUMINOUS MATERIALS (BULLETIN 41)
  - PENNDOT PUBLICATION 42, PRODUCERS OF READY-MIX CONCRETE (BULLETIN 42)
  - PENNDOT PUBLICATION 46, TRAFFIC ENGINEERING MANUAL
  - PENNDOT PUBLICATION 72M, STANDARDS FOR ROADWAY CONSTRUCTION
  - PENNDOT PUBLICATION 111, PAVEMENT MARKINGS AND SIGNING STANDARDS
  - PENNDOT PUBLICATION 212, OFFICIAL TRAFFIC CONTROL DEVICES
  - PENNDOT PUBLICATION 213, TEMPORARY TRAFFIC CONTROL GUIDELINES
  - PENNDOT PUBLICATION 408, SPECIFICATIONS
- DETAILS, OTHER THAN THOSE INDICATED, ARE ON THE FOLLOWING STANDARD DRAWINGS:
 

|        |               |   |
|--------|---------------|---|
| RC-10M | JUN. 1, 2010  | CLASSIFICATION OF EARTHWORK               |
| RC-11M | JUN. 1, 2010  | CLASSIFICATION OF EARTHWORK AT STRUCTURES |
| RC-12M | NOV. 1, 2022  | BACKFILL AT STURCTURES                    |
| RC-13M | JUN. 1, 2010  | PAY LIMIT OF SUBBASE                      |
| RC-45M | FEB. 19, 2021 | INLET TOPS, GRATES AND FRAME              |
| RC-46M | FEB. 19, 2021 | INLET BOXES                               |
| RC-64M | FEB. 19, 2021 | CURBS AND GUTTERS                         |
| RC-67M | FEB. 19, 2021 | CURB RAMPS AND SIDEWALKS                  |
| RC-70M | FEB. 8, 2019  | PERIMETER CONTROL DEVICES                 |
| RC-72M | FEB. 8, 2019  | INLET AND OUTLET PROTECTION               |
| RC-77M | DEC. 17, 2019 | ROCK CONSTRUCTION ENTRANCE                |
- THE ROADWAY HAS BEEN DESIGNED (AND WILL BE CONSTRUCTED AND MAINTAINED) CONSISTENT WITH TITLE 67, CHAPTER 441 REGULATIONS.
- PA STATE HIGHWAY RIGHT-OF-WAY MAY NOT BE USED FOR PARKING.
- PERMITTEE IS RESPONSIBLE FOR MAINTENANCE OF ALL AUTHORIZED STRUCTURES, FACILITIES AND DRAINAGE.
- PERMITTEE IS RESPONSIBLE FOR MAINTENANCE OF ALL AUTHORIZED SIGNS AND PAVEMENT MARKINGS.
- CONTACT PENNSYLVANIA ONE-CALL (1-800-242-1776) THREE WORKING DAYS BEFORE EXCAVATION OR DEMOLITION WORK. SERIAL NUMBER \_\_\_\_\_ FOR WEST GROVE BOROUGH.
- AVERAGE DAILY TRAFFIC (ADT) FOR SR 0841 (W MAIN STREET) IS: 3644 CARS 188 TRUCKS.
- W MEADOW DRIVE INTERSECTION SEG 0160 OFF 0702 = STA 04+70.83
 

|   |   |
|---|---|
| DISTANCE TO NEAREST INTERSECTION IS:      | 385 FEET (W HILLCREST AVE)              |
| DISTANCE TO NEAREST TRAFFIC SIGNAL IS:    | 2,740 FEET (PROSPECT AVE/EVERGREEN AVE) |
| DISTANCE TO NEAREST OPPOSITE DRIVEWAY IS: | 5 FEET (SOUTH)                          |
| DISTANCE TO NEAREST ADJACENT DRIVEWAY IS: | 69 FEET (NORTH)                         |
- IF A TRAFFIC SIGNAL IS WITHIN 500 FEET OF THE SITE, CALL THE DISTRICT TRAFFIC ENGINEER AT LEAST 3 DAYS PRIOR TO THE START OF THE WORK.
- THIS PERMIT MAY BE RESTRICTED ON WORKING HOURS AND TIMES FOR HOLIDAYS, WEEKENDS, AND SPECIAL OR UNFORESEEN EVENTS AND WILL REQUIRE APPROVBAL FROM THE COUNTY OFFICE PRIOR TO WORKING DURING THESE PERIODS.

- THE PERMITTEE'S CONTRACTOR SHALL SAWCUT AND REMOVE SHOULDER MATERIALS AS NECESSARY TO ENSURE THE PAVEMENT REPLACEMENT IS ADJACENT TO THE FULL-DEPTH PAVEMENT OF THE TRAVEL LANE.
- FINAL APPROVAL OF THE PROPOSED SAWCUT LOCATION WILL BE AT THE DISCRETION OF THE INSPECTOR-IN-CHARGE AND WILL BE CONFIRMED AT THE PRE-CONSTRUCTION MEETING. IF THE SAWCUT MUST BE LOCATED WITHIN A TRAVEL LANE, IT WILL BE NECESSARY TO MILL AND OVERLAY THE TRAVEL LANE TO PREVENT A JOINT IN A WHEEL PATH.
- THE PROPOSED PAVEMENT SECTION MUST BE AS INDICATED ON THE PLAN, OR MATCH THE EXISTING AS FOUND IN THE FIELD, WHICHEVER IS GREATER.
- PRIOR TO AN OVERLAY, BITUMINOUS OR CONCRETE BASE REPAIR OR JOINT REPLACEMENT MAY BE REQUIRED. REPAIR/REPLACEMENT WILL BE AT THE DISCRETION OF THE INSPECTOR-IN-CHARGE.
- ALL EXISTING PAVEMENT MARKINGS WHICH ARE NO LONGER APPROPRIATE SHALL BE ERADICATED BY THE PERMITTEE. THE PERMITTEE SHALL PLACE ALL REQUIRED NEW PAVEMENT MARKINGS.
- ALL PAVEMENT MARKINGS OTHER THAN LONGITUDINAL LINES TO BE HOT THERMOPLASTIC (PENNDOT PUBLICATION 111, TC-8600).
- MATCH EXISTING PAVEMENT MARKINGS AT THE LIMITS OF WORK.
- MATERIAL CERTIFICATION MUST BE PROVIDED, BY AND APPROVED MANUFACTURER LISTED IN THE DEPARTMENT'S PUBLICATION 35 (BULLETIN 15), FOR ALL MATERIALS AND STRUCTURES WITHIN THE PENNDOT'S RIGHT-OF-WAY.
- THE PERMITTEE SHALL CONTACT THE COUNTY MAINTENANCE MANAGER AT THE TIME OF THE GUIDERAIL REMOVAL; ALL EXISTING GUERAILS TO BE REMOVED SHALL BE TRANSPORTED TO AND STORED AS PER THE DIRECTION FROM THE COUNTY MAINTENANCE MANAGER OR HIS REPRESENTATIVE.
- ALL PROPOSED PEDESTRIAN FACILITIES REFLECTED ON THESE PLANS, INCLUDING THOSE THAT ARE OUTSIDE OF PENNDOT LEGAL RIGHT-OF-WAY, SHALL BE CONSTRUCTED TO COMPLY WITH THE REQUIREMENTS OF THE U.S. ACCESS BOARD, PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG) OF THE ACCESSIBILITY GUIDELINES OF BUILDINGS AND FACILITIES (ADAAG). PENNDOT DESIGN MANUAL PART 2, CHAPTER 6, AND PENNDOT STANDARDS FOR ROADWAY CONSTRUCTION (PENNDOT PUBLICATION 72M, RC-67M) PROVIDE GUIDANCE ON ADA ACCESSIBLE DESIGN FOR PEDESTRIAN FACILITIES AND CAN BE UTILIZED FOR REFERENCE.
- ALL SLOPE MEASUREMENTS WILL BE INSPECTED/VERIFIED WITH A 2-FOOT SMART LEVEL.
- IT IS THE RESPONSIBILITY OF THE PERMITTEE TO REMOVE AND DEBRIS AND FLUSH OUT ALL EXISTING AND NEW STORM DRAINAGE FACILITIES WITHIN THE PROJECT LIMITS AT THE COMPLETION OF THE CONSTRUCTION.
- MODIFICATIONS TO EXISTING DRAINAGE STRUCTURES MAY RESULT IN THE NEED TO REPLACE THE STRUCTURE. REPLACEMENT WILL BE AT THE DISCRETION OF THE INSPECTOR-IN-CHARGE.
- STRUCTURAL STEEL BICYCLE SAFE GRATES MUST BE PROVIDED FOR ALL INLETS WITHIN THE ROADWAY PAVEMENT OF THOSE THAT MAY RECEIVE BICYCLE TRAFFIC (PENNDOT PUBLICATION 72M, RC-45M).
- THE RESPONSIBILITY FOR ENSURING THAT ALL UTILITY POLES WITHIN THE PROPOSED PAVING ARE RELOCATED OUTSIDE OF PAVED AREAS AND SHOULDERS SHALL BE THAT OF PERMITTEE. THE UTILITY POLES MUST BE RELOCATED BEFORE THE START OF ANY PAVING OPERATIONS.
- THE PERMITTEE IS RESPONSIBLE FOR THE COORDINATION OF RELOCATING ANY CONFLICTING UTILITIES WHICH ARE THE RESULT OF THESE IMPROVEMENTS.
- ALL UTILITY RELOCATION PERMITS TAKE PRECEDENCE OVER THE UTILITY RELOCATION POSITIONS SHOWN ON THE HOP PLANS.
- A LIST OF PUBLIC UTILITIES IN ACCORDANCE WITH ACT 287-1974 IS LOCATED ON THIS SHEET BELOW.
- IT IS THE RESPONSIBILITY OF THE PERMITTEE TO ENSURE ALL WORK SHOWN ON THE CONSTRUCTION PLANS TO AFFECTED DRIVEWAYS IS COMPLETED AS PART OF THIS PERMIT.
- THE LEGAL RIGHT-OF-WAY ON SR 0841 (FORMERLY LR 15022) VARIES FROM 38 FEET TO 42.5 FEET. FROM LONDON GROVE TOWNSHIP – WEST GROVE BOROUGH LINE TO THE INTERSECTION OF RAILROAD AVE. (BOROUGH STREET), CONFIRMED BY BOROUGH ORDINANCE DATE AUGUST 10, 1894 IS THE RIGHT-OF-WAY IS 38 FOOT. LATER BASED ON MAJOR SUBDIVISION CORRECTION PLAN "WEST MEADOWS" DATED 11-28-90. RECORDED IN THE CHESTER COUNTY COURTHOUSE PLAN NUMBER 7312. THE RIGHT-OF-WAY VARIES FROM 38' TO 42.5'.

**MAINTENANCE AND PROTECTION OF TRAFFIC (MPT) NOTES:**

- THIS WORK CONSISTS OF THE MAINTENANCE AND PROTECTION OF TRAFFIC AND THE PROTECTION OF THE PUBLIC WHEN APPROACHING AND DEPARTING THE CONSTRUCTION AREA AND WITHIN THE LIMITS OF CONSTRUCTION.
- FURNISH, ERECT, PLACE AND MAINTAIN TRAFFIC CONTROL SIGNS AND DEVICES. MAINTAIN TRAFFIC DURING HOURS OF CONSTRUCTION AND AT ALL OTHER TIMES CONSISTENT WITH THE METHODS INDICATED ON THESE DRAWINGS AND THE FOLLOWING:
  - PENNDOT PUBLICATION 35
  - PENNDOT PUBLICATION 46
  - PENNDOT PUBLICATION 72M
  - PENNDOT PUBLICATION 111
  - PENNDOT PUBLICATION 212
  - PENNDOT PUBLICATION 213
  - PENNDOT PUBLICATION 236
  - PENNDOT PUBLICATION 408
  - MUTCD, CURRENT EDITION
- REMOVE THESE DEVICES IMMEDIATELY UPON COMPLETION OF THE WORK. PENNDOT WILL REMOVE ANY TRAFFIC CONTROL DEVICES ERECTED BY DEPARTMENT FORCES.
- PERMITTEE MUST ARRANGE FOR INSPECTION OF ALL TRAFFIC CONTROL DEVICES PRIOR TO START OF WORK.
- COVER OR REMOVE ALL CONFLICTING SIGNS AND ERADICATE ALL CONFLICTING PAVEMENT MARKINGS.
- MOUNT ALL LONG-TERM ADVANCE WARNING SIGNS ON TYPE III BARRICADES UNLESS OTHERWISE NOTED OR INSTRUCTED BY DISTRICT OFFICE.
- ALL SIGNS AND DEVICES TO BE MAINTAINED IN NEW OR LIKE NEW CONDITION.
- DRIVEWAYS WILL BE KEPT ACCESSIBLE AT ALL TIMES. LOCATE ALL SIGNS SO THAT SIGHT DISTANCES WILL NOT BE OBSTRUCTED AT DRIVEWAYS AND LOCAL ROADS.
- ALL CHANNELIZING DEVICES, BARRICADES, AND SIGNS SHALL HAVE TYPE III OR BETTER PRISMATIC RETROREFLECTIVE SHEETING. SHEETING SHALL BE APPROVED AND LISTED IN PENNDOT PUBLICATION 35 (BULLETIN 15).
- NO TRAFFIC RESTRICTIONS OR LANE CLOSURES ARE PERMITTED BETWEEN 6:00AM AND 9:00 AM BETWEEN 3:00 PM AND 6:00 PM MONDAYS THROUGH FRIDAYS OR ON LEGAL HOLIDAYS AND WEEKENDS ASSOCIATED WITH LEGAL HOLIDAYS. ALL RESTRICTIONS AND CLOSURES ARE TO BE REMOVED BY NOON ON THE DAY PRIOR TO THE LEGAL HOLIDAY.
- PERMITTEE SHALL NOTIFY LOCAL EMERGENCY AUTHORITIES (E.G., POLICE, FIRE, MEDICAL). AFFECTED BUSINESSES, SCHOOL DISTRICT(S), THE GENERAL PUBLIC, THE DISTRICT PERMIT MANAGER AND THE DISTRICT APRAS COORDINATOR AT LEAST FOURTEEN DAYS PRIOR TO ANY SIGNIFICANT TRAFFIC IMPACTS (E.G., LATERAL WIDTH RESTRICTIONS LESS THAN 16 FEET, DETOURS).
- MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH APPLICABLE PATA FIGURES: 106, 107, 109-A & 109-G IN PENNDOT PUBLICATION 213, "WORKZONE TRAFFIC CONTROL GUIDELINES", AMENDED APRIL 2022, AND TITLE 67 PA CODE, CHAPTER 212, OFFICIAL TRAFFIC CONTROL DEVICES, DATED FEBRUARY 2008 OR MOST CURRENT.
- DROPOFFS CREATED BY CONSTRUCTION OPERATIONS SHALL BE TREATED CONSISTENT WITH PUBLICATION 408, SECTION 901.3 (J).
- REMOVE ALL SHORT-TERM WORK ZONE TRAFFIC CONTROL SIGNING UPON COMPLETION OF THAT DAY'S WORK PERIOD.
- RESTRICTING TRAFFIC FLOW WITHIN THE WORK AREA SHALL BE MINIMIZED TO PREVENT TRAFFIC CONGESTION AND UNSAFE TRAFFIC CONDITIONS.
- NOTIFY THE LOCAL MUNICIPALITY WHERE SIGNALIZED INTERSECTIONS FALL WITHIN THE WORK ZONE. DO NOT FLAG A SIGNALIZED INTERSECTION WITHOUT THE MUNICIPALITY PLACING THE SIGNAL ON FLASH.

**GENERAL NOTES**



**Bethlehem Office**

252 Brodhead Road, Suite 100 P:610.691.5644  
Bethlehem, PA 18017-8944 F:610.691.6968  
HanoverEng.com

|                   |                       |                  |
|-------------------|-----------------------|------------------|
| DATE: 06/25/24    | PROJECT DESIGNER: RJL | JOB NO. WGB23-12 |
| DRAWN BY: RGT/RLS | CHECKED BY: RJL       |                  |



REG. PROFESSIONAL ENGINEER  
DATE: 06/25/24

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NOTE:  
THIS DRAWING CANNOT BE USED AS A CONSTRUCTION DRAWING UNLESS THE PERMITTEE COMPLIES WITH THE PROVISIONS OF ACT 287 OF 1974 AS AMENDED, PREVENTION OF DAMAGE TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION CONSULT WITH UTILITY COMPANIES TO RESOLVE ANY PROBLEMS WHICH MAY BE CREATED DUE TO THE LOCATION OF UTILITIES.

**CHESTER WATER AUTHORITY**  
100 ASHVILLE RD  
NOTTINGHAM, PA. 19362  
CONTACT: FRANK HUMBERT  
EMAIL: FGHUMBERT@CHESTERWATER.COM  
PHONE: 717-529-2244 EXT. 4350

**LONDON GROVE TOWNSHIP**  
372 ROSEHILL ROAD  
SUITE 100  
WEST GROVE, PA. 19390  
CONTACT: KENNETH BATTIN  
EMAIL: KBATTIN@LONDONGROVE.ORG  
PHONE: 610-345-0100 EXT. 101

**WEST GROVE BOROUGH/AUTHORITY**  
117 ROSEHILL AVE  
PO BOX 61  
WEST GROVE, PA. 19390  
CONTACT: GREG MCCUMMINGS  
EMAIL: GMCCUMMINGS@WESTGROVEBOROUGH.ORG  
PHONE: 610-869-2792

**VERIZON BUSINESS FORMERLY MCI**  
7000 WESTON PKWY  
CARY, NC. 27513  
CONTACT: VICTOR WOOD  
EMAIL: VICTOR.S.WOOD@VERIZON.COM  
PHONE: 919-414-2782

**CHESTER WATER AUTHORITY**  
437 W FRONT ST  
PO BOX 467  
CHESTER, PA. 19013  
CONTACT: VITO PAGANO  
EMAIL: VITO.PAGANO@CHESTERWATER.COM  
PHONE: 610-506-0441 EXT. 2232

**PECO AN EXELON COMPANY C/O USIC**  
450 S HENDERSON ROAD SUITE B  
KING OF PRUSSIA, PA. 19406  
CONTACT: NIKKIA SIMPKINS  
EMAIL: NIKKIASIMPKINS@USICLLC.COM  
PHONE: 484-681-5720



**"CALL BEFORE YOU DIG"**

PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE – STOP CALL

PENNSYLVANIA ONE CALL SYSTEM, INC.  
**1-800-242-1776**

SERIAL NUMBER 20230381659

Y:\Projects\Municipal\West Grove Borough\WGB23-12 - Prospect Ave HOP\ WGB23-12 - Design-Base.dwg Jun 25, 2024 3:15pm

**MAINTENANCE AND PROTECTION OF TRAFFIC (MPT)**

|                    |           |       |         |          |    |
|--------------------|-----------|-------|---------|----------|----|
| DISTRICT           | COUNTY    | ROUTE | SECTION | SHEET    |    |
| 6-0                | CHESTER   | 0841  | ----    | 03 OF 12 |    |
| WEST GROVE BOROUGH |           |       |         |          |    |
| REVISION NUMBER    | REVISIONS |       |         | DATE     | BY |

**PATA 106**

- Place 50' taper in closed lane as shown. Continue taper angle and spacing as needed on the opposite side of the roadway center line while maintaining a 10' minimum lane width.
- Flaggers shall be clearly visible to traffic for a minimum distance of E.
- When a shadow vehicle is not used, distance E is measured from the end of the taper to the beginning of the work space.



| Speed   | Channelizing Devices Spacing | Sign Spacing |           | Buffer Space | Roll Ahead Space |
|---------|------------------------------|--------------|-----------|--------------|------------------|
|         |                              | Urban        | Rural     |              |                  |
| S (MPH) | 2S (Feet)                    | A (Feet)     | A (Feet)  | E (Feet)     | H (Feet)         |
| 25      | 50                           | 100 - 200    | 500 - 800 | 155          | 150              |
| 30      | 60                           | 100 - 200    | 500 - 800 | 200          | 150              |
| 35      | 70                           | 100 - 200    | 500 - 800 | 250          | 150              |
| 40      | 80                           | 350 - 500    | 500 - 800 | 305          | 150              |
| 45      | 90                           | 350 - 500    | 500 - 800 | 360          | 150              |
| 50      | 100                          | 350 - 500    | 500 - 800 | 425          | 250              |
| 55      | 110                          | 350 - 500    | 500 - 800 | 495          | 250              |

| Taper Lengths and Minimum Number Of Channelizing Devices |                    |                           |
|--|--------------------|---------------------------|
| Speed  | 50' Per Lane Taper |                           |
| S (MPH)  | Length (Feet)      | Minimum Number Of Devices |
| 25   | 50                 | 6                         |
| 30   | 50                 | 6                         |
| 35   | 50                 | 6                         |
| 40   | 50                 | 6                         |
| 45   | 50                 | 6                         |
| 50   | 50                 | 6                         |
| 55   | 50                 | 6                         |

**PATA 107**

- Flaggers shall be clearly visible to traffic for a minimum distance of E.
- For operations of 15 minutes or less:
  - The ROAD WORK, ONE LANE ROAD, and FLAGGER SYMBOL signs are not required.
  - All channelizing devices may be eliminated if a shadow vehicle is present and the operation does not proceed against normal traffic flow.
- When a shadow vehicle is not used, distance E is measured from the end of the taper to the beginning of the work space.



| Speed   | Channelizing Devices Spacing | Sign Spacing |           | Buffer Space | Roll Ahead Space |
|---------|------------------------------|--------------|-----------|--------------|------------------|
|         |                              | Urban        | Rural     |              |                  |
| S (MPH) | 2S (Feet)                    | A (Feet)     | A (Feet)  | E (Feet)     | H (Feet)         |
| 25      | 50                           | 100 - 200    | 500 - 800 | 155          | 150              |
| 30      | 60                           | 100 - 200    | 500 - 800 | 200          | 150              |
| 35      | 70                           | 100 - 200    | 500 - 800 | 250          | 150              |
| 40      | 80                           | 350 - 500    | 500 - 800 | 305          | 150              |
| 45      | 90                           | 350 - 500    | 500 - 800 | 360          | 150              |
| 50      | 100                          | 350 - 500    | 500 - 800 | 425          | 250              |
| 55      | 110                          | 350 - 500    | 500 - 800 | 495          | 250              |

| Taper Lengths and Minimum Number Of Channelizing Devices |                    |                           |
|--|--------------------|---------------------------|
| Speed  | 50' Per Lane Taper |                           |
| S (MPH)  | Length (Feet)      | Minimum Number Of Devices |
| 25   | 50                 | 6                         |
| 30   | 50                 | 6                         |
| 35   | 50                 | 6                         |
| 40   | 50                 | 6                         |
| 45   | 50                 | 6                         |
| 50   | 50                 | 6                         |
| 55   | 50                 | 6                         |

**PATA 109 (A Through L)**

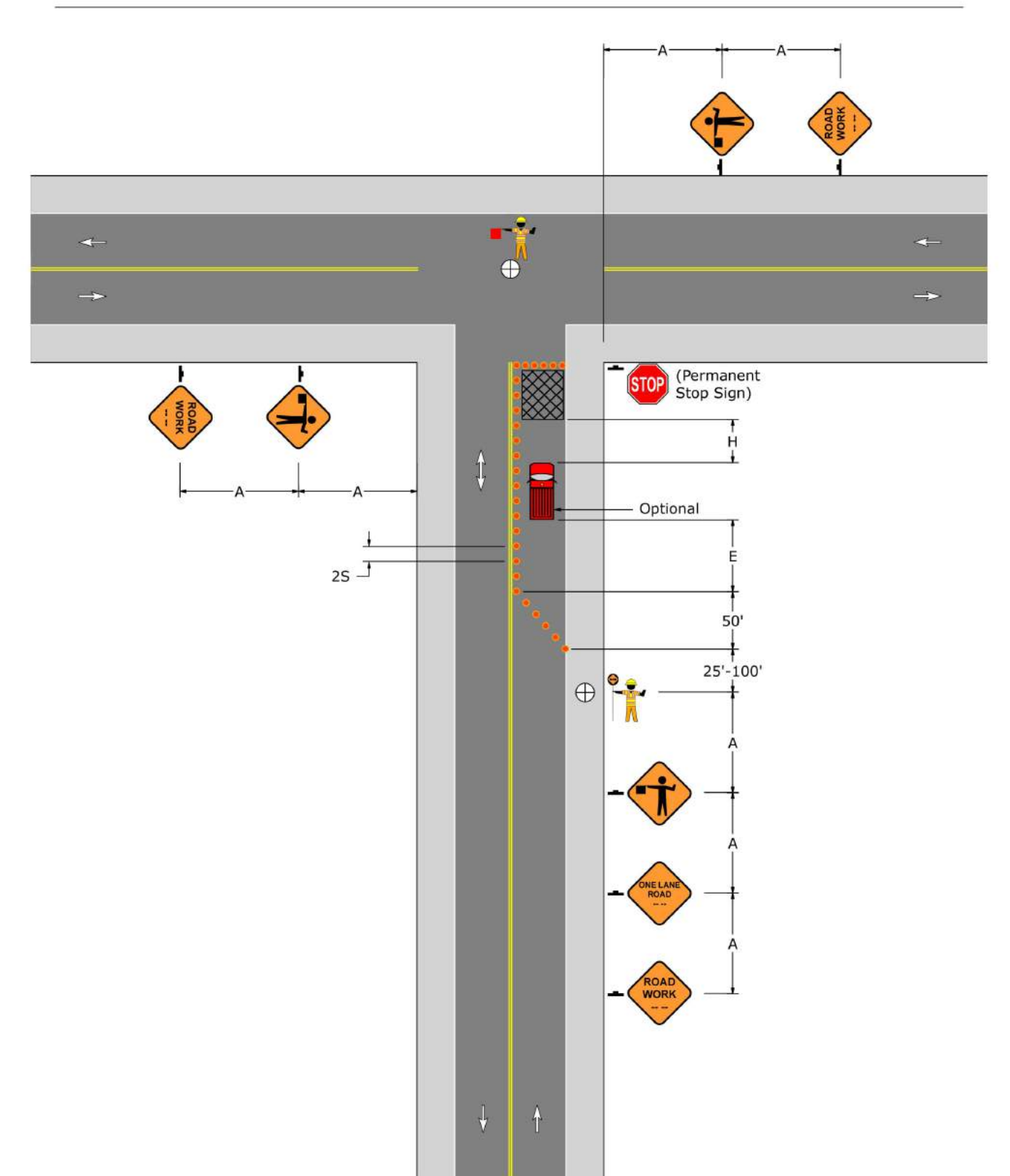
- PATA 109 drawings show work spaces on roads that approach and depart T-intersections with through-roads. Single-flagger or multi-flagger intersection control is illustrated for intersections with three types of permanent control:
  - One-Way Stop
  - All-Way Stop
  - Traffic Signal
- Flaggers shall be clearly visible to traffic for a minimum distance of E.
- For operations of 15 minutes or less:
  - The ROAD WORK, ONE LANE ROAD, and FLAGGER SYMBOL signs are not required.
  - All channelizing devices may be eliminated if a shadow vehicle is present and the operation does not proceed against normal traffic flow.
- When a shadow vehicle is not used, distance E is measured from the end of the taper to the beginning of the work space.



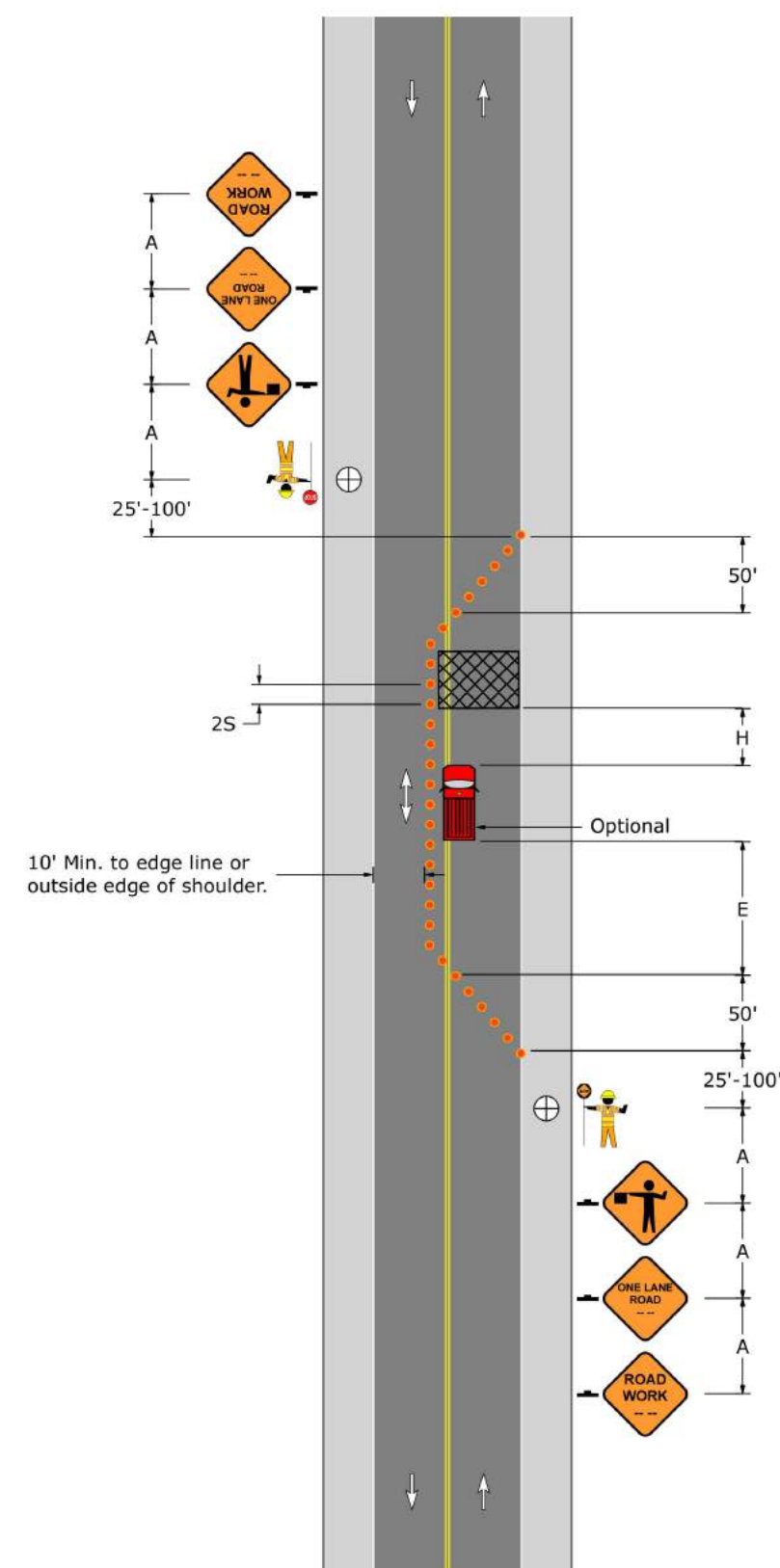
| Speed   | Channelizing Devices Spacing | Sign Spacing |           | Buffer Space | Roll Ahead Space |
|---------|------------------------------|--------------|-----------|--------------|------------------|
|         |                              | Urban        | Rural     |              |                  |
| S (MPH) | 2S (Feet)                    | A (Feet)     | A (Feet)  | E (Feet)     | H (Feet)         |
| 25      | 50                           | 100 - 200    | 500 - 800 | 155          | 150              |
| 30      | 60                           | 100 - 200    | 500 - 800 | 200          | 150              |
| 35      | 70                           | 100 - 200    | 500 - 800 | 250          | 150              |
| 40      | 80                           | 350 - 500    | 500 - 800 | 305          | 150              |
| 45      | 90                           | 350 - 500    | 500 - 800 | 360          | 150              |
| 50      | 100                          | 350 - 500    | 500 - 800 | 425          | 250              |
| 55      | 110                          | 350 - 500    | 500 - 800 | 495          | 250              |

| Taper Lengths and Minimum Number Of Channelizing Devices |                    |                           |
|--|--------------------|---------------------------|
| Speed  | 50' Per Lane Taper |                           |
| S (MPH)  | Length (Feet)      | Minimum Number Of Devices |
| 25   | 50                 | 6                         |
| 30   | 50                 | 6                         |
| 35   | 50                 | 6                         |
| 40   | 50                 | 6                         |
| 45   | 50                 | 6                         |
| 50   | 50                 | 6                         |
| 55   | 50                 | 6                         |

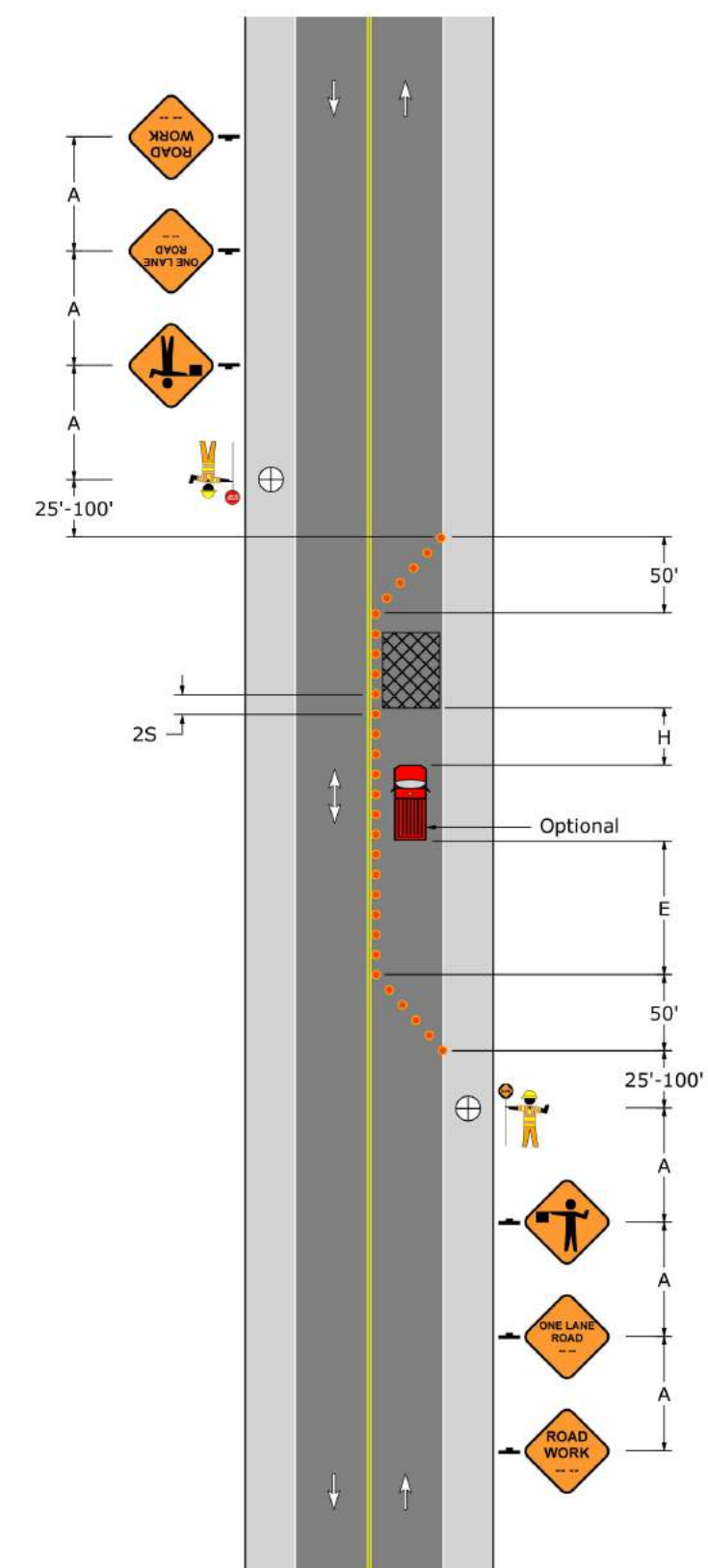
**PATA 109-A**



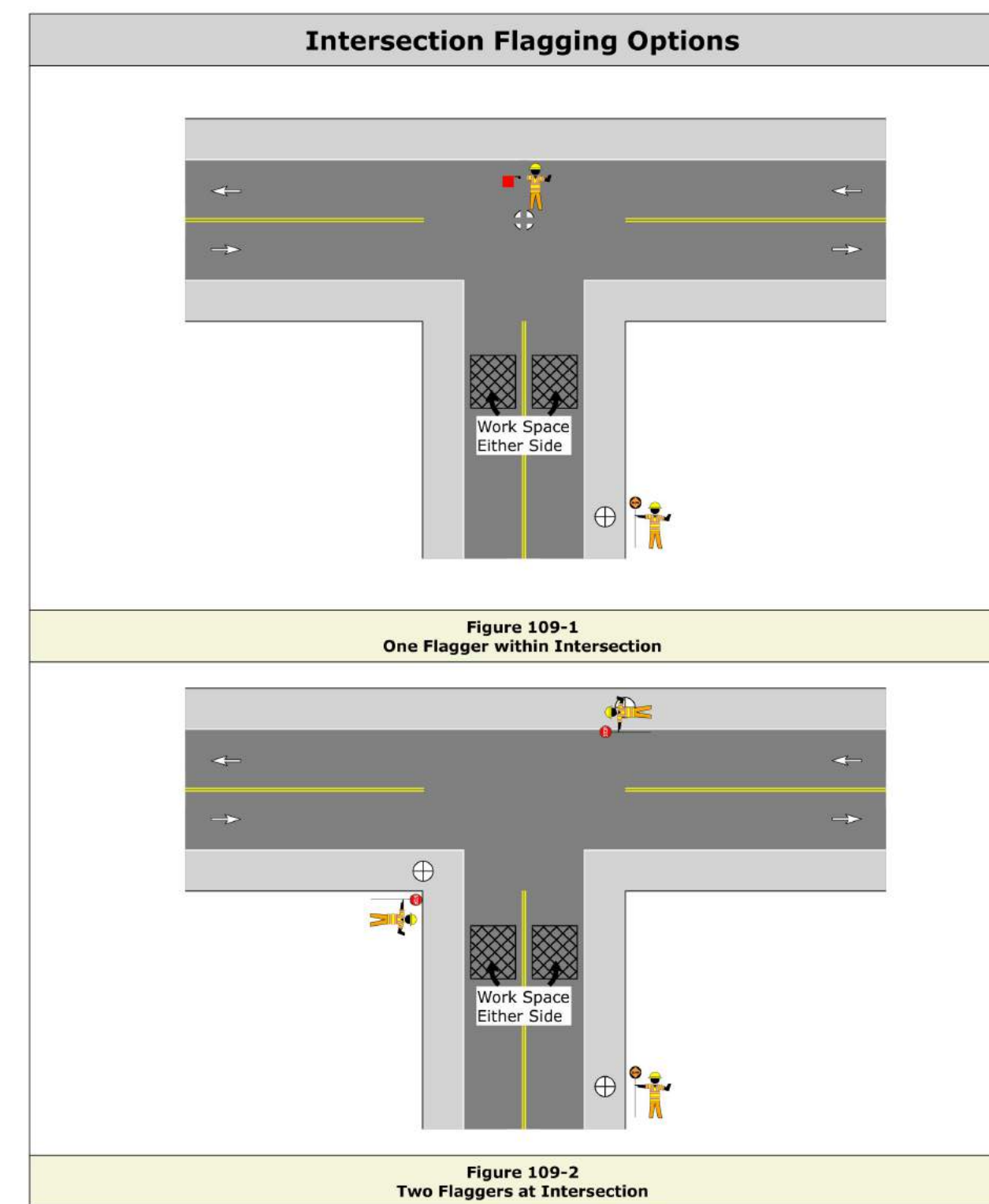
**PATA 106**



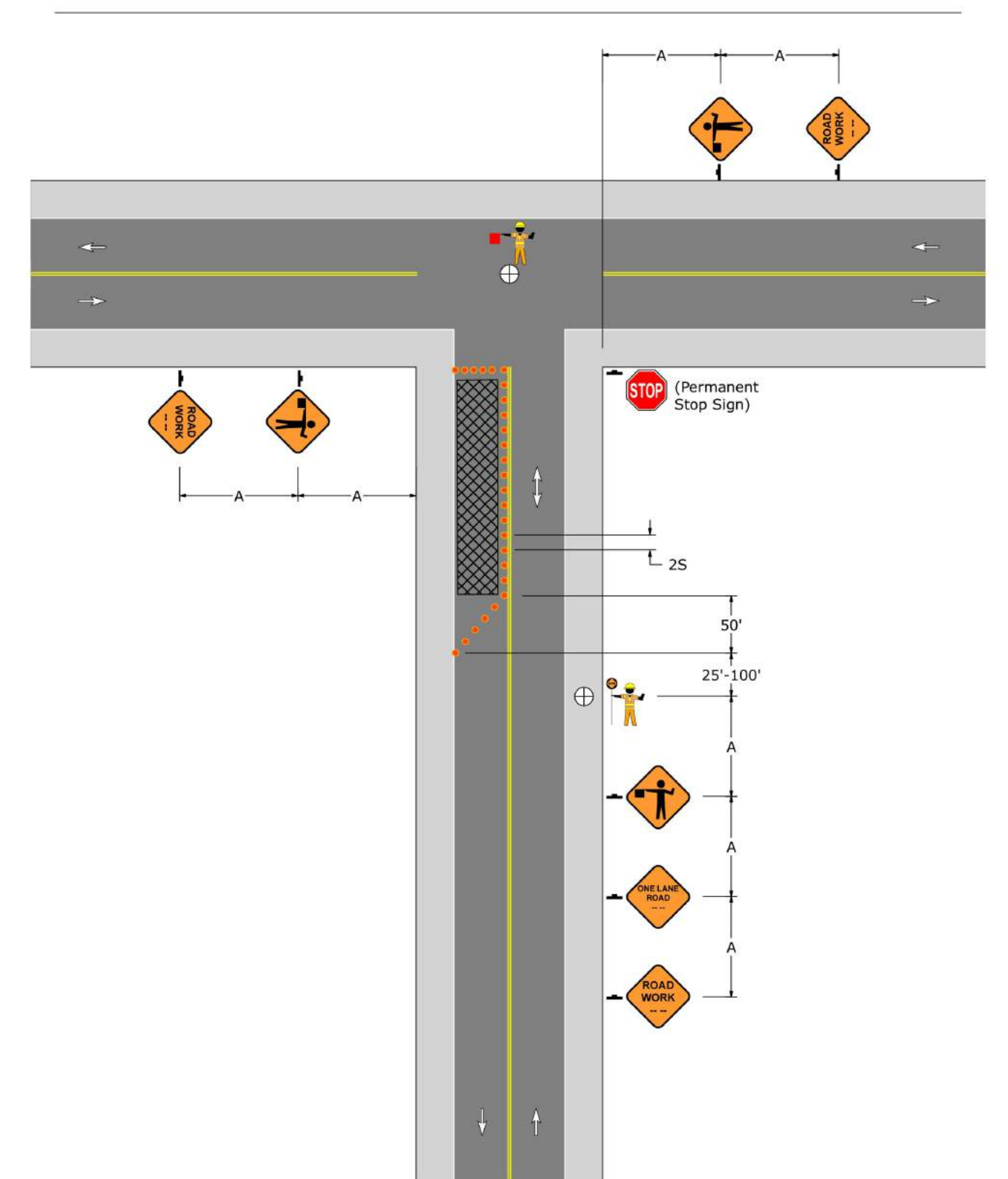
**PATA 107**



**PATA 109 (A Through L)**



**PATA 109-G**

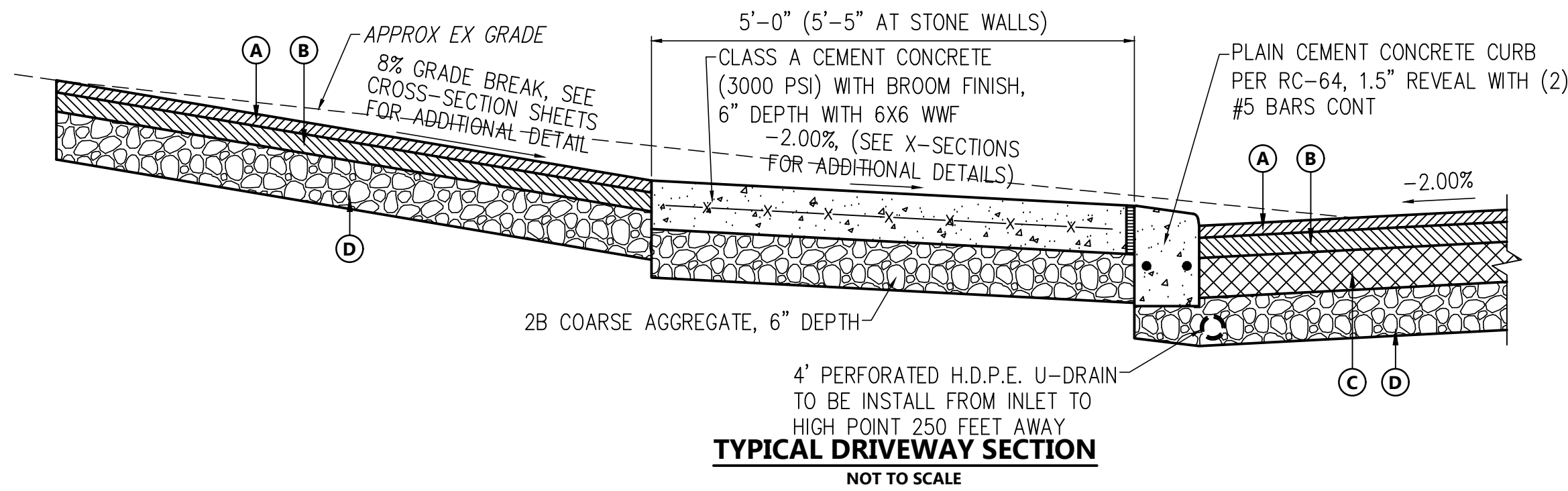


|                    |           |       |         |          |
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| DISTRICT           | COUNTY    | ROUTE | SECTION | SHEET    |
| 6-0                | CHESTER   | 0841  | ----    | 04 OF 12 |
| WEST GROVE BOROUGH |           |       |         |          |
| REVISION NUMBER    | REVISIONS | DATE  | BY      |          |

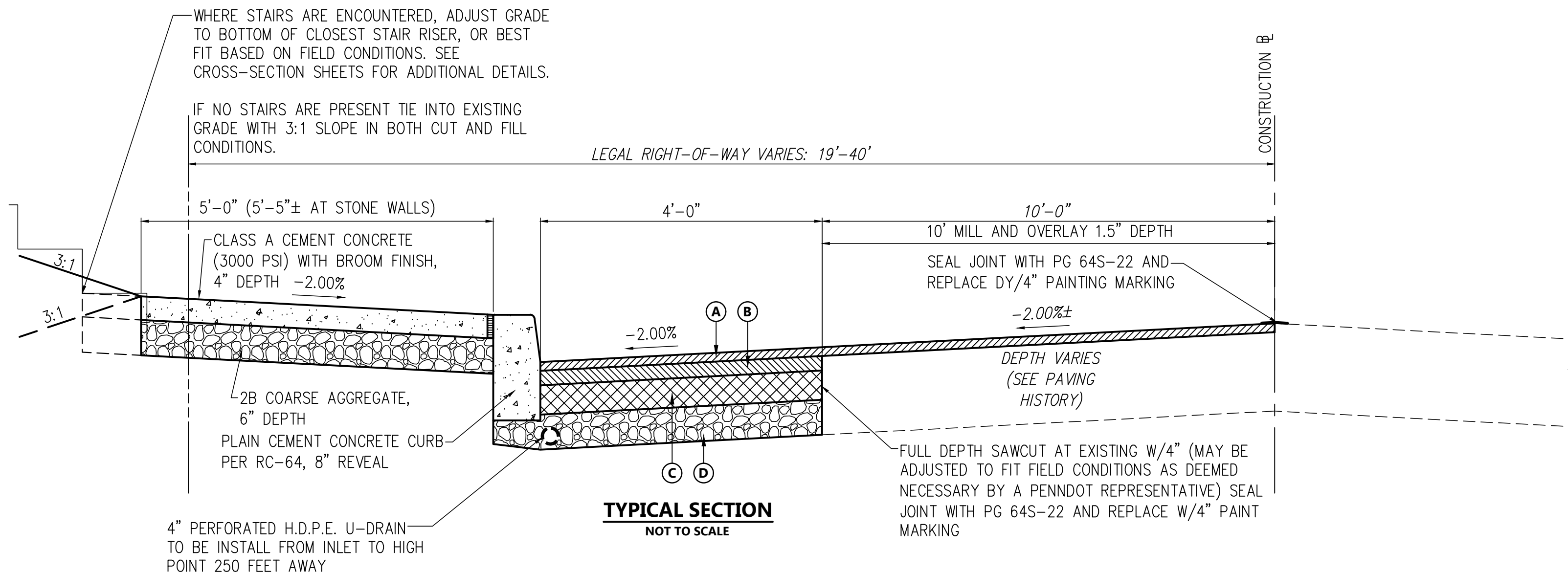
**RECORD OF EXISTING ROAD TYPES - SR 0841 SEG 0160**

NOTE: THE DEPTH OF MATERIALS SHOWN ARE FOR DESIGN PURPOSES ONLY, ANY RISK OF UNANTICIPATED COSTS ASSOCIATED WITH DIFFERENCES BETWEEN THE LISTED DEPTHS AND THE ACTUALS DEPTHS SHALL BE ACCEPTED BY THE CONTRACTOR.

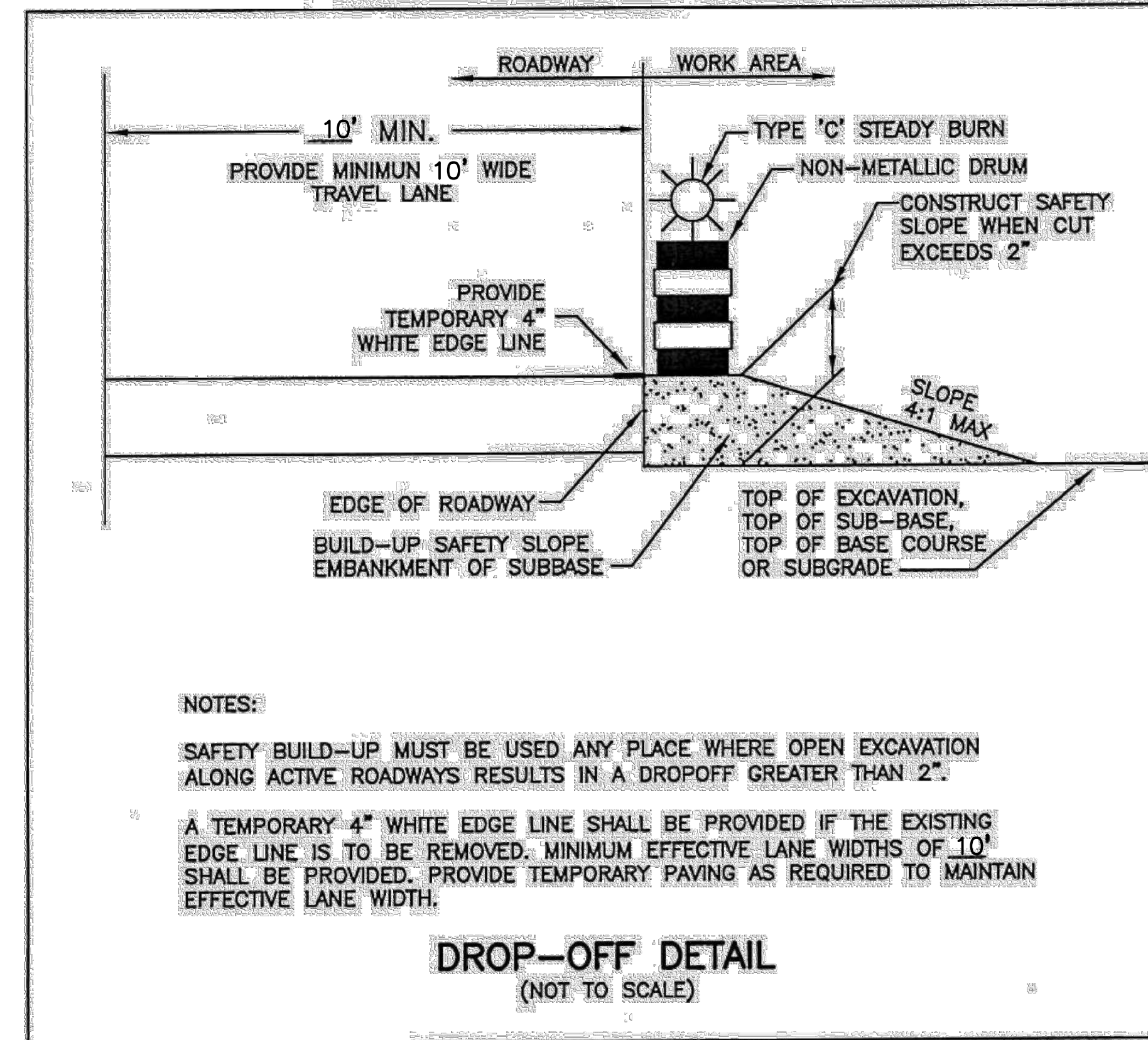
|                                      |       |          |              |          |                        |
|--------------------------------------|-------|----------|--------------|----------|------------------------|
| 2010 SPAV WRG                        | 64-22 | 9.5MM, H | 1.5" DEPTH   | 20' WIDE | SEG 0160 OFF 0000-3444 |
| 2010 MILLING                         |       |          | -1.5" DEPTH  | 20' WIDE | SEG 0160 OFF 0000-3444 |
| 2005 SURFACE TREATMENT-SEAL COAT     |       |          | 0.25" DEPTH  | 26' WIDE | SEG 0160 OFF 0000-3444 |
| 1993 BIT WEAR CRSE MECH PTCH ID-2    |       |          | 1.5" DEPTH   | 26' WIDE | SEG 0160 OFF 0797-1722 |
| 1993 BITUM WRG CRSE ID-2             |       |          | 1.5" DEPTH   | 20' WIDE | SEG 0160 OFF 0000-0797 |
| 1993 MILLING (AVG) DEPTH             |       |          | -0.75" DEPTH | 6' WIDE  | SEG 0160 OFF 0797-1722 |
| 1966 BITUM WRG CRSE ID-2 (WIDEN L)   |       |          | 2" DEPTH     | 1' WIDE  | SEG 0160 OFF 0797-0861 |
| 1966 BITUM WRG CRSE ID-2 (WIDEN R)   |       |          | 2" DEPTH     | 1' WIDE  | SEG 0160 OFF 0797-0861 |
| 1966 CRUSHED AGG BASE CRSE (WIDEN L) |       |          | 4" DEPTH     | 1' WIDE  | SEG 0160 OFF 0797-0861 |
| 1966 CRUSHED AGG BASE CRSE (WIDEN R) |       |          | 4" DEPTH     | 1' WIDE  | SEG 0160 OFF 0797-0861 |
| 1956 BITUM WRG CRSE AT-1 (WIDEN C)   |       |          | 1" DEPTH     | 14' WIDE | SEG 0160 OFF 0797-0861 |
| 1945 UNKNOWN BITUM WRG CRSE          |       |          | 6" DEPTH     | 14' WIDE | SEG 0160 OFF 0640-0797 |
| 1945 UNKNOWN BITUM WRG CRSE          |       |          | 2" DEPTH     | 28' WIDE | SEG 0160 OFF 0861-1423 |
| 1932 UNKNOWN BITUM WRG CRSE          |       |          | 2.5" DEPTH   | 14' WIDE | SEG 0160 OFF 0797-1423 |



**TYPICAL DRIVEWAY SECTION**  
NOT TO SCALE



**TYPICAL SECTION**  
NOT TO SCALE



**NOTES:**

SAFETY BUILD-UP MUST BE USED ANY PLACE WHERE OPEN EXCAVATION ALONG ACTIVE ROADWAYS RESULTS IN A DROPOFF GREATER THAN 2\"

A TEMPORARY 4\"

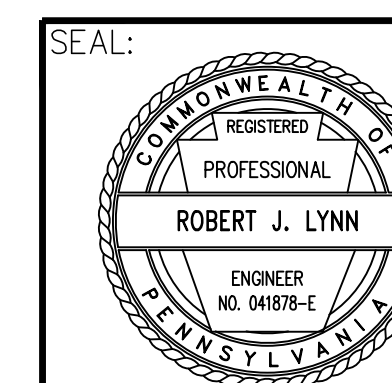
**DROP-OFF DETAIL**  
(NOT TO SCALE)

**TYPICAL CROSS-SECTIONS**



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| DATE: 06/25/24    | PROJECT DESIGNER: RJL | JOB NO. WGB23-12 |
| DRAWN BY: RGT/RLS | CHECKED BY: RJL       |                  |



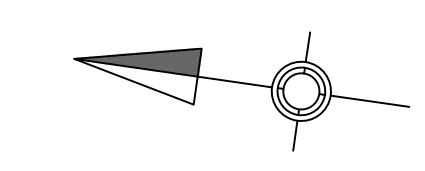
REG. PROFESSIONAL ENGINEER  
DATE: 06/25/24

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**PROPOSED PAVING LEGEND**

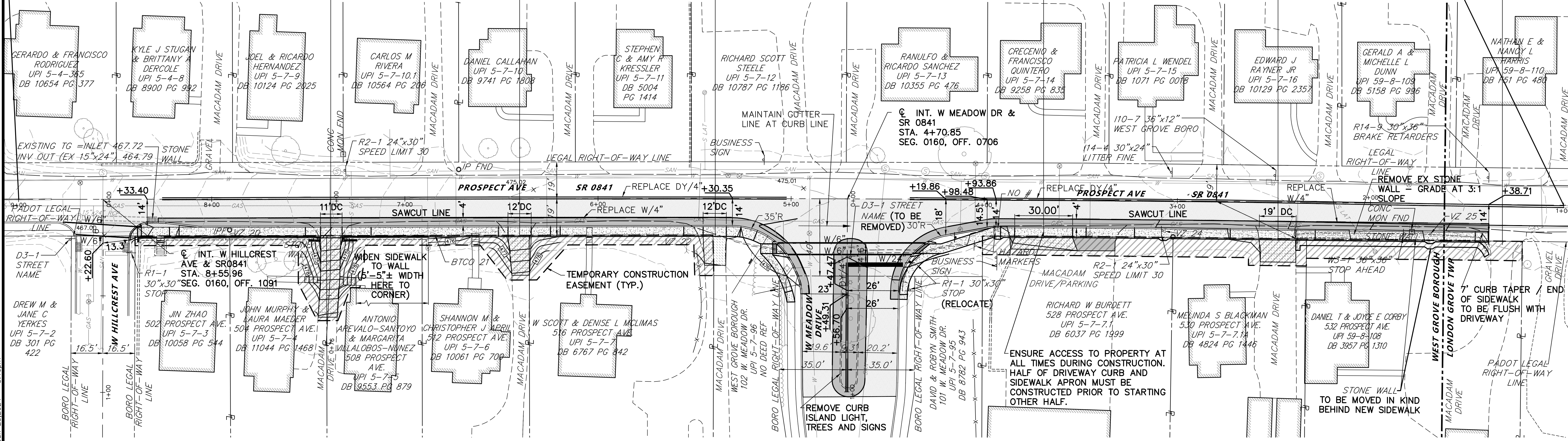
- (A) SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, RPS PG 64-22, 3 TO <10 MILLION ESALS, 9.5 MM MIX, 1.5" DEPTH, SRL-H
- (B) SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, RPS PG 64-22, 3 TO <10 MILLION ESALS, 19.0 MM MIX, 2.5" DEPTH
- (C) SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64-22, 3 TO <10 MILLION ESALS, 25 MM MIX, 5" DEPTH
- (D) 2A STONE SUBBASE, 8" DEPTH OR MATCH EXISTING, WHICHEVER IS GREATER

|                    |           |       |         |          |
|--------------------|-----------|-------|---------|----------|
| DISTRICT           | COUNTY    | ROUTE | SECTION | SHEET    |
| 6-0                | CHESTER   | 0841  | ----    | 05 OF 12 |
| WEST GROVE BOROUGH |           |       |         |          |
| REVISION NUMBER    | REVISIONS | DATE  | BY      |          |



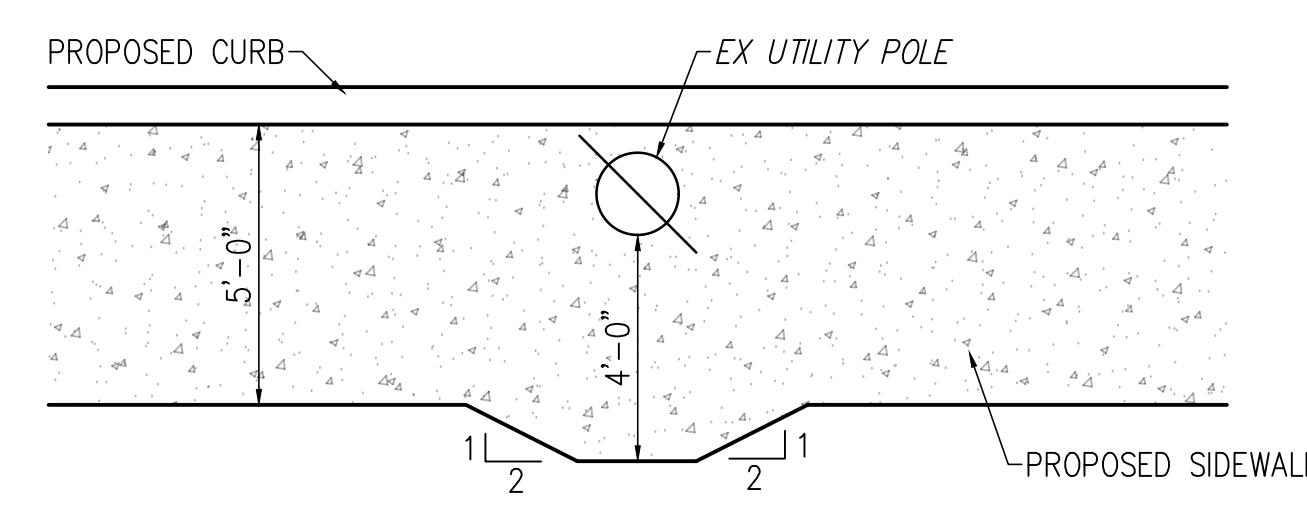
**LIMIT OF WORK**  
 SR 0841 (PROSPECT AVENUE)  
 STA 9+00.00  
 SEG 0160 OFF 1131  
 WEST GROVE BOROUGH  
 CHESTER COUNTY

**LIMIT OF WORK**  
 SR 0841 (PROSPECT AVENUE)  
 STA 1+00.00  
 SEG 0160 OFF 0331  
 LONDON GROVE TOWNSHIP  
 CHESTER COUNTY



**LEGEND**

|  |  |
|--|--|
|  | EXISTING STORM SEWER                             |
|  | EXISTING EDGE OF PAVEMENT                        |
|  | EXISTING UTILITY POLE                            |
|  | EXISTING SIDEWALK AND STEPS                      |
|  | PENNDOT LEGAL RIGHT-OF-WAY LINE                  |
|  | CONSTRUCTION BASE LINE / RIGHT-OF-WAY CENTERLINE |
|  | PROPERTY LINE                                    |
|  | EXISTING FENCE                                   |
|  | EXISTING GAS LINE                                |
|  | EXISTING SANITARY SEWER LINE                     |
|  | EXISTING WATER LINE                              |
|  | EXISTING WALL                                    |
|  | EXISTING 5' CONTOUR LINE                         |
|  | EXISTING 1' CONTOUR LINE                         |
|  | PROPOSED STORM SEWER                             |
|  | PROPOSED UNDER-DRAIN                             |
|  | PROPOSED SIDEWALK                                |
|  | PROPOSED CHEEKWALL                               |
|  | PROPOSED CURB                                    |
|  | NEW W/4"   |
|  | NEW DY/4"  |
|  | SAWCUT LINE                                      |
|  | MILL & OVERLAY                                   |
|  | FULL DEPTH PAVEMENT RECONSTRUCTION               |
|  | TEMPORARY CONSTRUCTION                           |
|  | PROPOSED 5' CONTOUR LINE                         |
|  | PROPOSED 1' CONTOUR LINE                         |

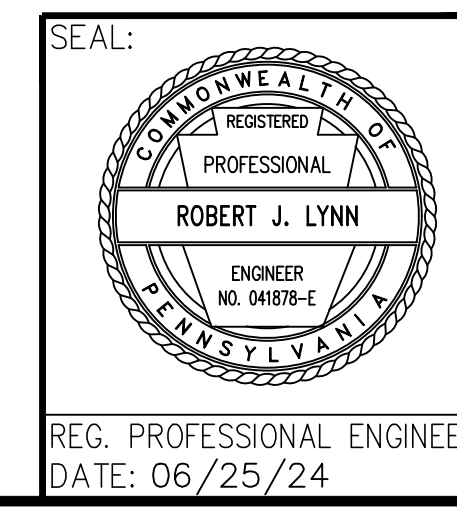


**CONSTRUCTION PLAN**



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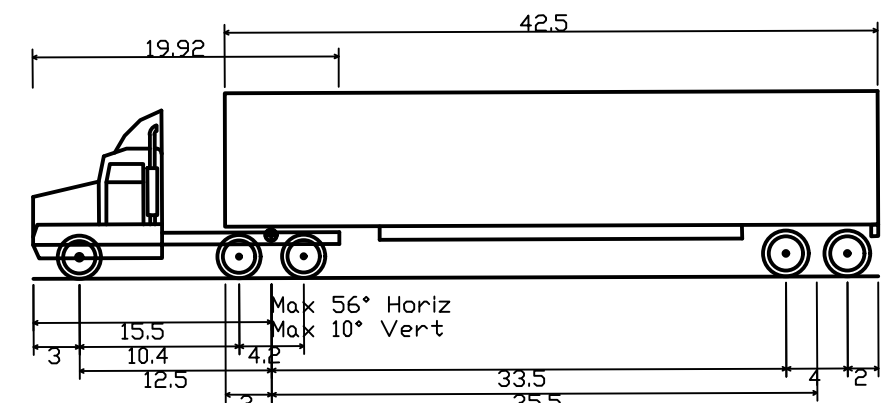
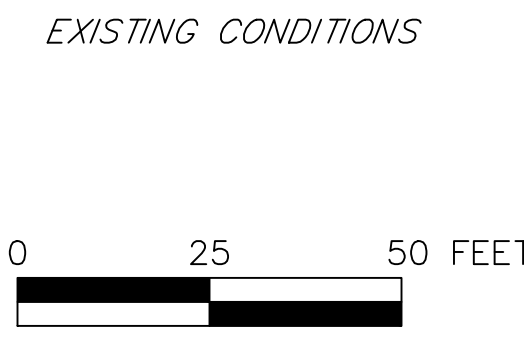
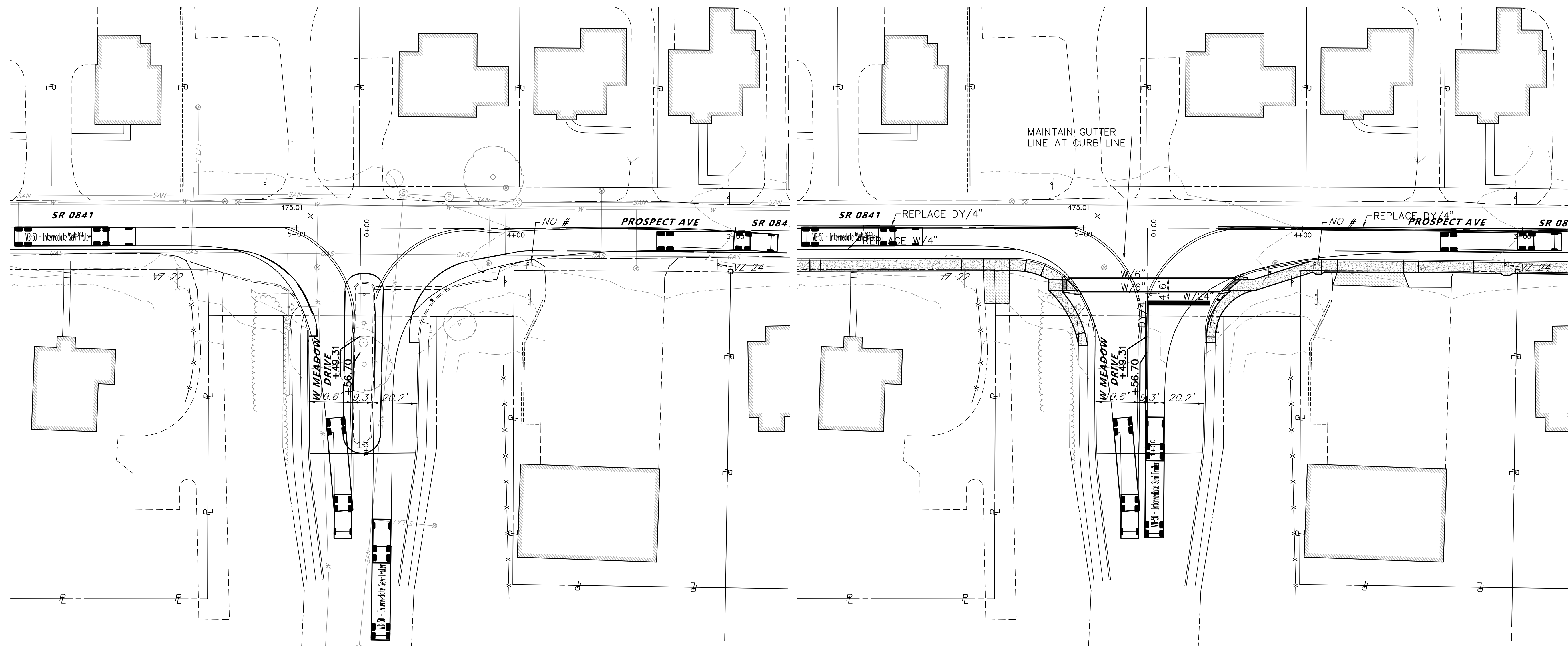
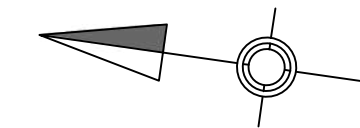
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|-------------------|-----------------------|------------------|
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| DRAWN BY: RGT/RLS | CHECKED BY: R/L       |                  |



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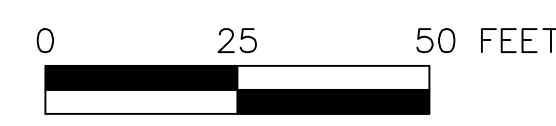
Y:\Projects\Municipal\West Grove Borough\WGB23-12 Prospect Ave HOP\WGB23-12 - Design-Base.dwg Jun 25, 2024 3:16pm

|                    |           |       |         |          |    |
|--------------------|-----------|-------|---------|----------|----|
| DISTRICT           | COUNTY    | ROUTE | SECTION | SHEET    |    |
| 6-0                | CHESTER   | 0841  | ----    | 06 OF 12 |    |
| WEST GROVE BOROUGH |           |       |         |          |    |
| REVISION NUMBER    | REVISIONS |       |         | DATE     | BY |



WB-50 - Intermediate Semi-Trailer  
 Overall Length 55.00ft  
 Overall Width 8.50ft  
 Overall Body Height 12.05ft  
 Min Body Ground Clearance 1.33ft  
 Max Track Width 8.50ft  
 Lock-to-lock time 6.00s  
 Max Steering Angle (Virtual) 17.90°

LARGEST VEHICLE THAT CAN ENTER AND EXIT INTERSECTION  
 NOT TO SCALE

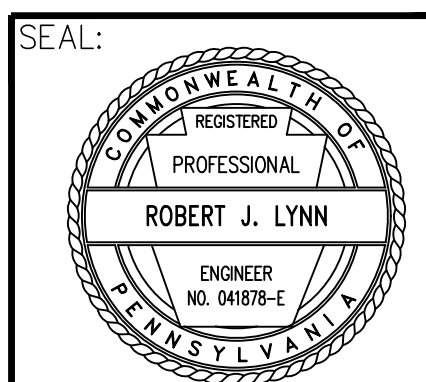


TURNING TEMPLATES



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| DRAWN BY:<br>RGT/RLS | CHECKED BY:<br>RJL       |                     |

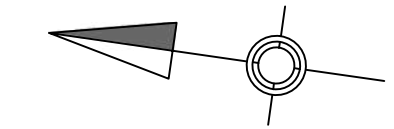


REG. PROFESSIONAL ENGINEER  
 DATE: 06/25/24

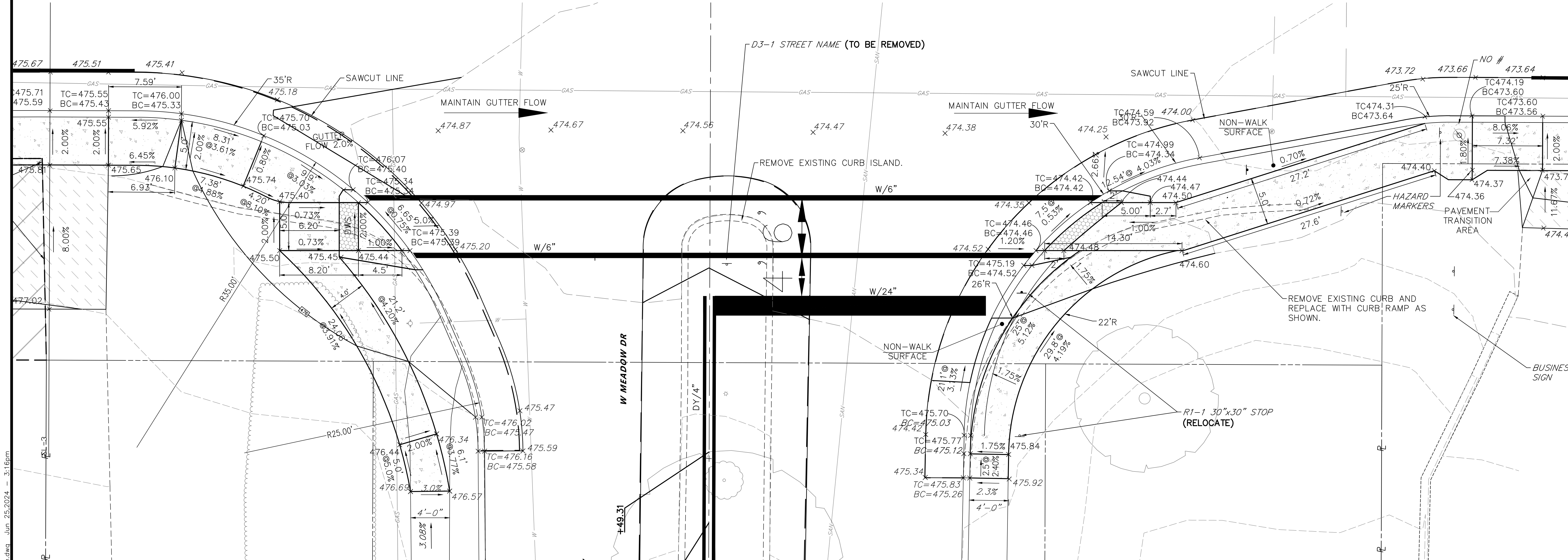
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| DISTRICT           | COUNTY    | ROUTE | SECTION | SHEET    |
| 6-0                | CHESTER   | 0841  | ----    | 07 OF 12 |
| WEST GROVE BOROUGH |           |       |         |          |
| REVISION NUMBER    | REVISIONS |       | DATE    | BY       |

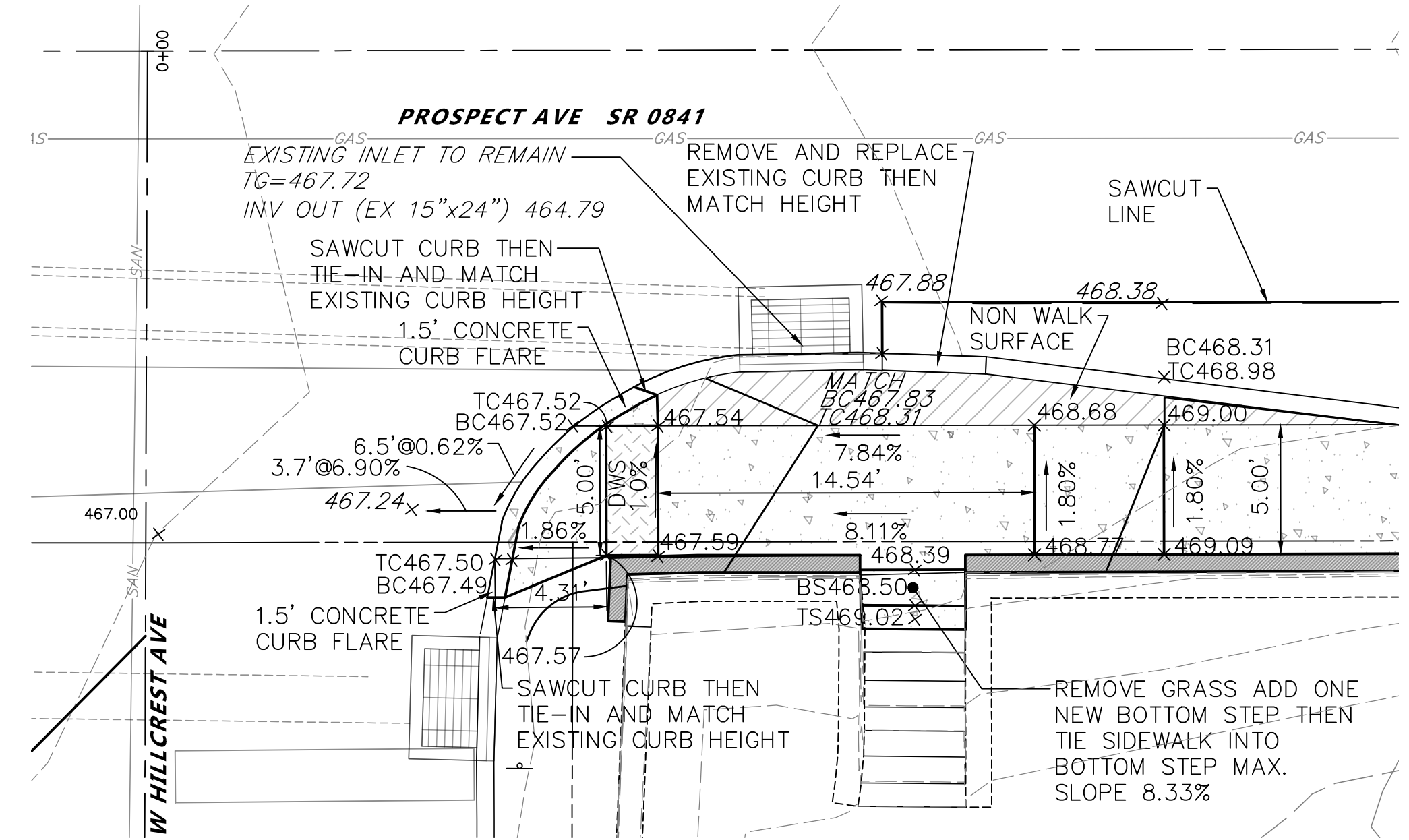


PROSPECT AVE. SR 0841

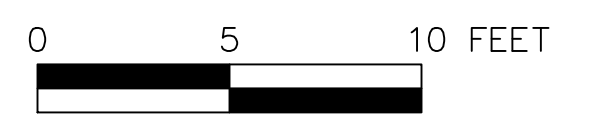
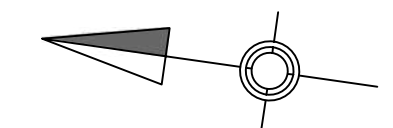


**RAMP 2 - W MEADOW DRIVE @ PROSPECT AVE**  
TYPE 6  
SCALE: 1" = 5'

**RAMP 3 - W MEADOW DRIVE @ PROSPECT AVE**  
TYPE 4A ALTERNATE  
SCALE: 1" = 5'



**RAMP 1 - W HILLCREST AVE @ PROSPECT AVE**  
TYPE 1A  
SCALE: 1" = 5'

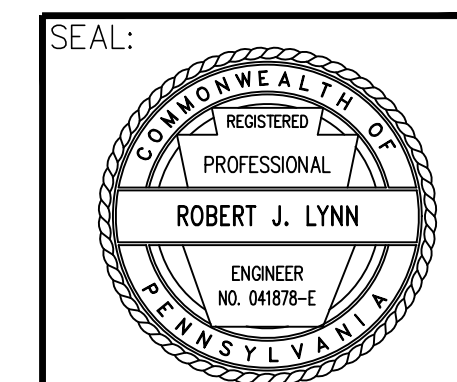


**CURB RAMP DETAILS**



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DATE: 06/25/24 PROJECT DESIGNER: RGL JOB NO. WGB23-12  
DRAWN BY: RGT/RLS CHECKED BY: RGL

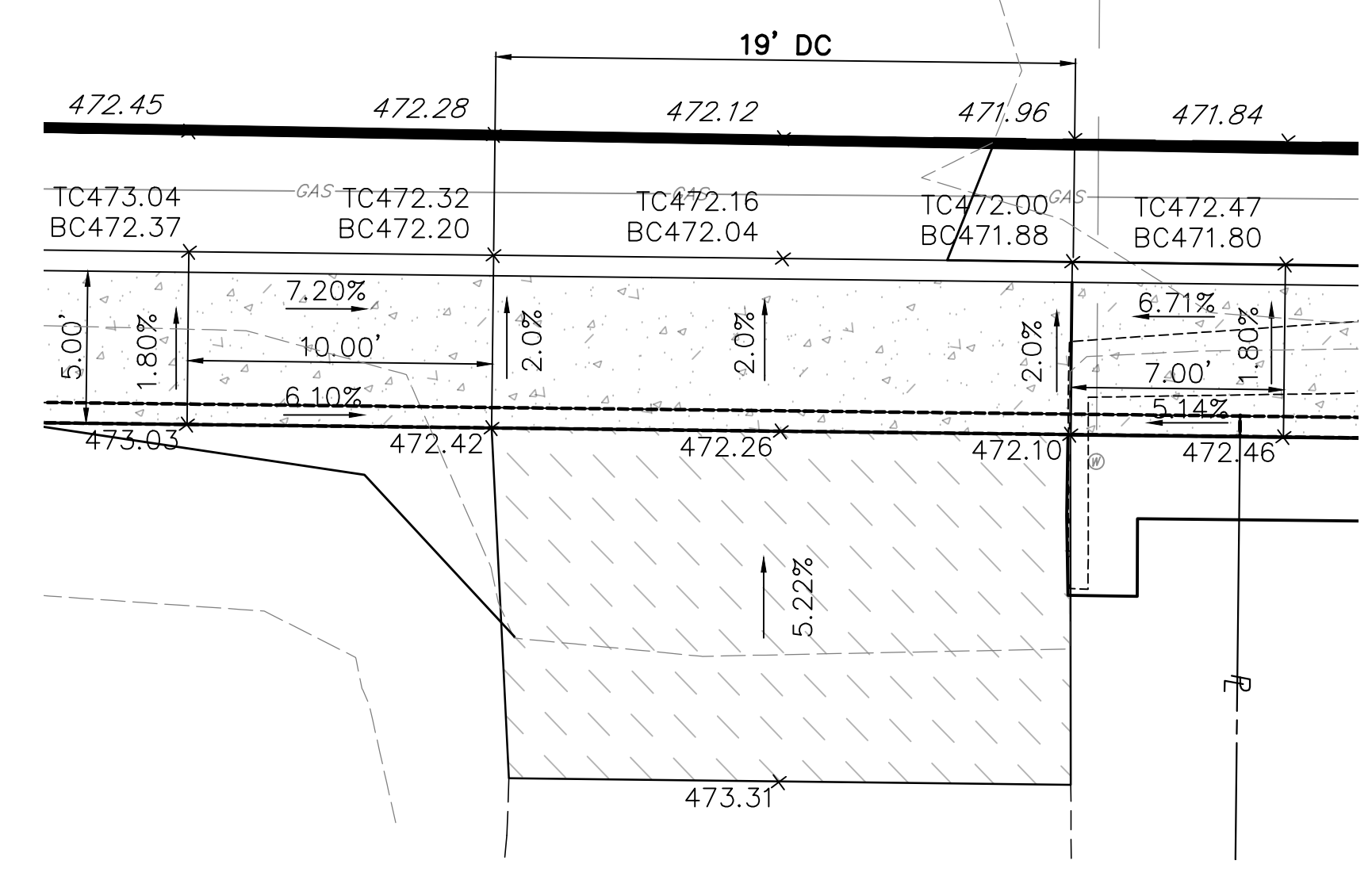


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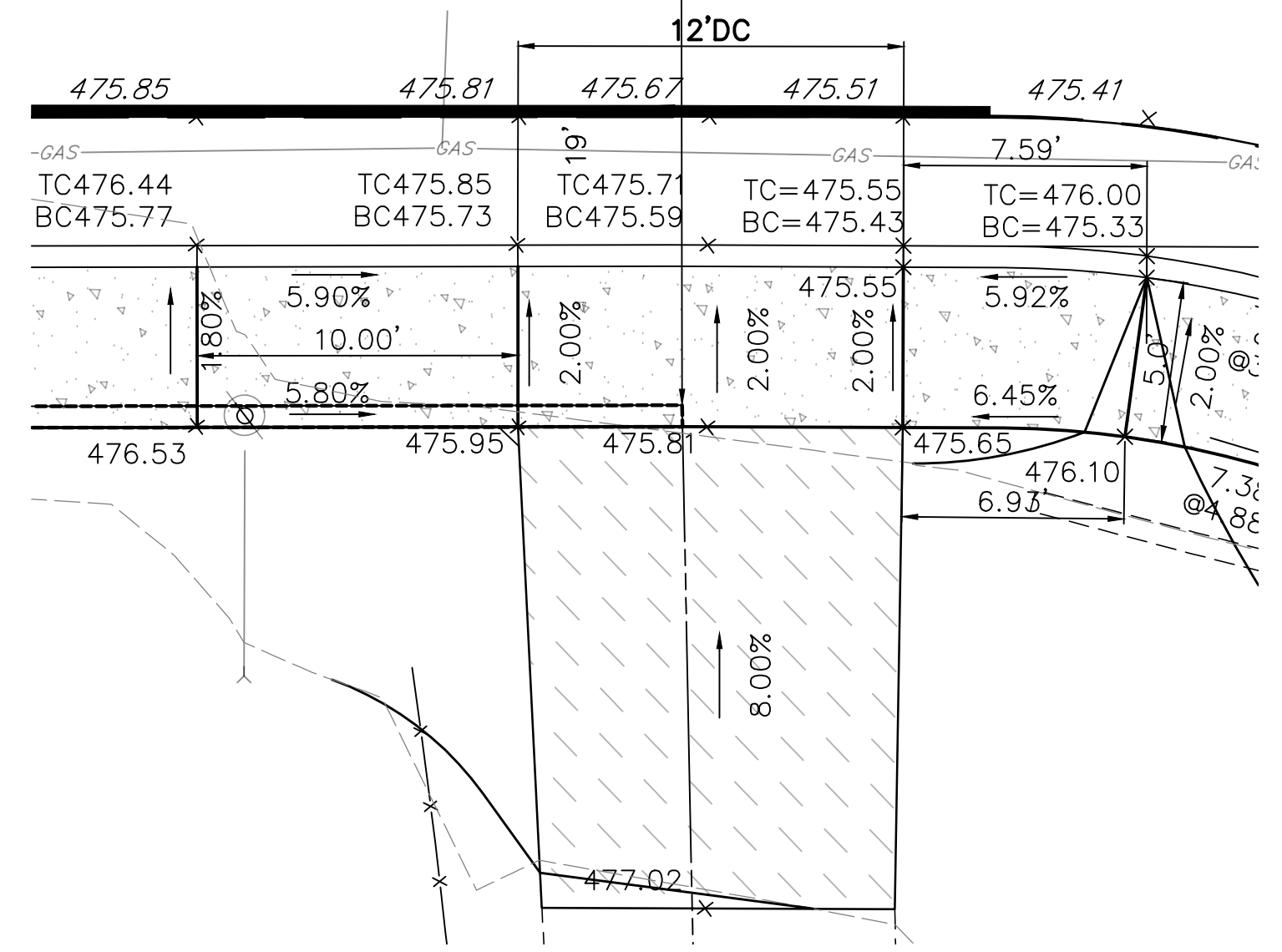
Y:\Projects\Municipal\West Grove Borough\WGB23-12 - Prospect Ave HOP\WGB23-12 - Design-Base.dwg Jun 25, 2024 - 3:16pm

|                    |           |       |         |          |    |
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| DISTRICT           | COUNTY    | ROUTE | SECTION | SHEET    |    |
| 6-0                | CHESTER   | 0841  | ----    | 08 OF 12 |    |
| WEST GROVE BOROUGH |           |       |         |          |    |
| REVISION NUMBER    | REVISIONS |       |         | DATE     | BY |



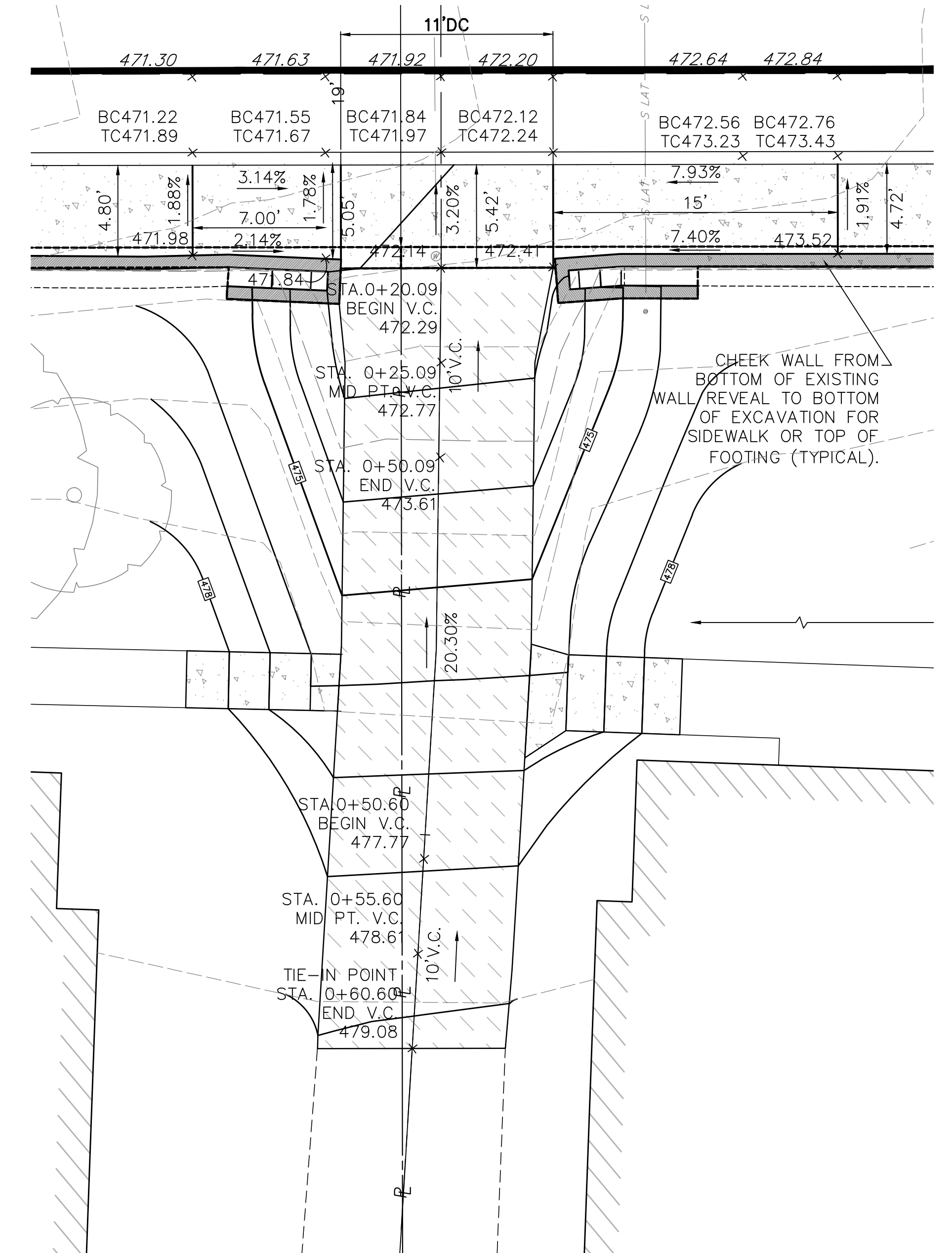
COMMON DRIVEWAY  
 STATIONING PROSPECT AVE. 2+48  
 SR 0841 SEG 0160, OFF. 0483  
 DANIEL T. & JOYCE E. CORBY 532  
 PROSPECT AVE. AND MELINDA S.  
 BLACKMAN  
 528 PROSPECT AVE.

**DRIVEWAY APRON**  
 TYPE 3A  
 SCALE: 1" = 5'



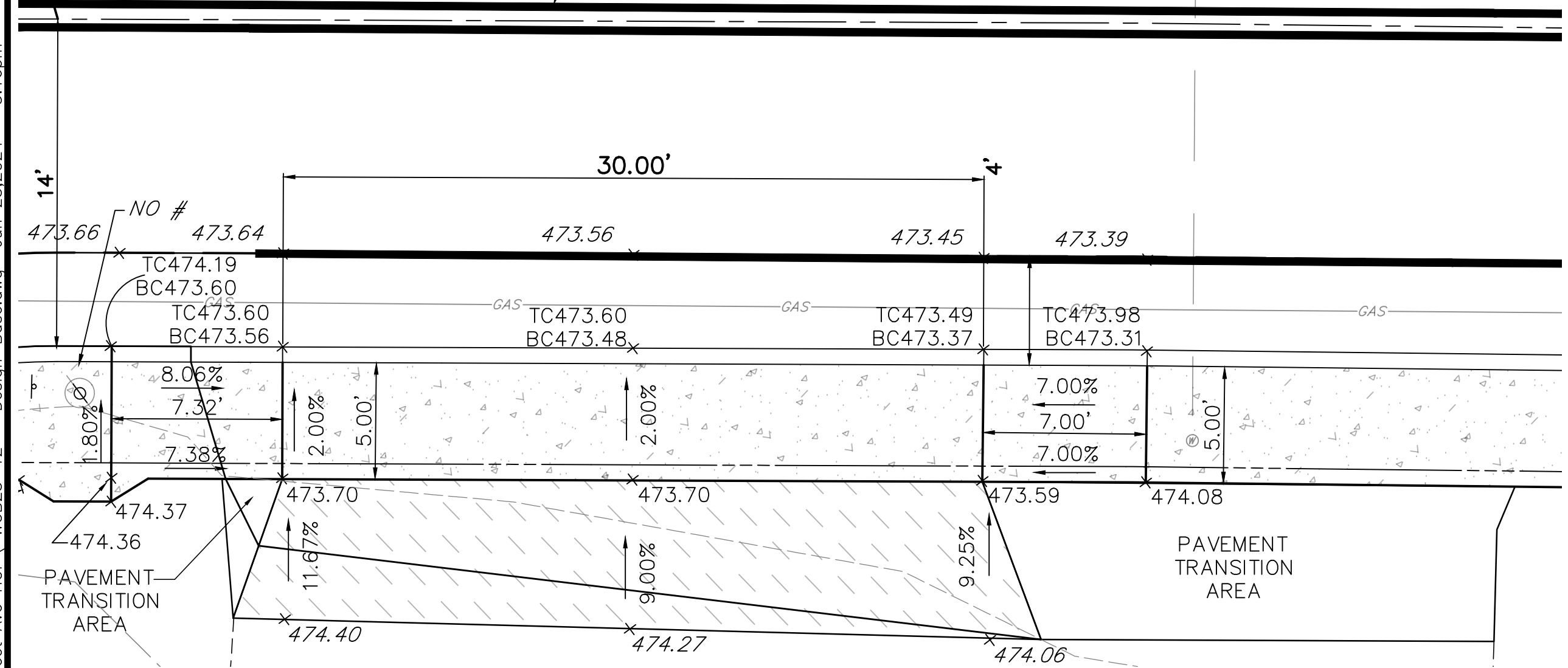
COMMON DRIVEWAY  
 STATIONING PROSPECT AVE. 5+40  
 SR 0841 SEG 0160, OFF. 0775  
 WEST GROVE BOROUGH 102 W. MEADOW  
 DR. AND SCOTT W. & DENISE L. MC LIMAS  
 516 PROSPECT AVE.

**DRIVEWAY APRON**  
 TYPE 3A  
 SCALE: 1" = 5'



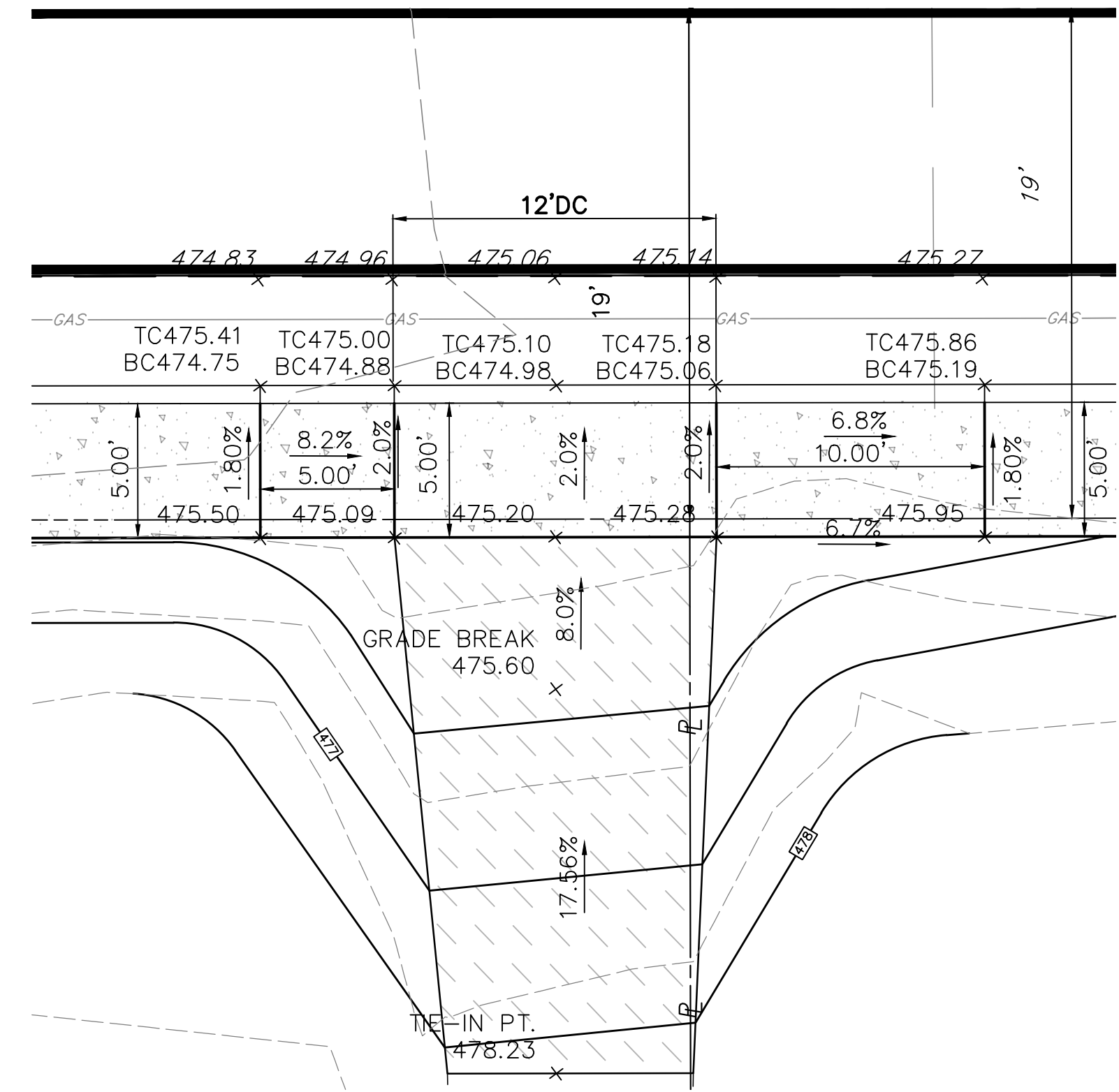
COMMON DRIVEWAY  
 TYPE-3 APRON  
 STATIONING PROSPECT AVE. 7+38  
 SR 0841 SEG 0160, OFF. 0968  
 ANTONIO AREVALO-SANTOYO &  
 MARGARITA VILLALOBOS-NUNEZ  
 508 PROSPECT AVE. AND  
 JOHN MURPHY & LAURA MAEDER 504  
 PROSPECT AVE.

**DRIVEWAY APRON**  
 TYPE 3A  
 SCALE: 1" = 5'



DRIVEWAY  
 STATIONING PROSPECT AVE. 3+69  
 SR 0841 SEG 0160, OFF. 0604  
 RICHARD W. BURDETT  
 518 PROSPECT AVE.

**DRIVEWAY APRON**  
 TYPE 3A  
 SCALE: 1" = 5'



DRIVEWAY  
 STATIONING PROSPECT AVE. 6+41  
 SR 0841 SEG 0160, OFF. 0876  
 SHANNON J. & CHRISTOPHER J. APRIL 512  
 PROSPECT AVE.

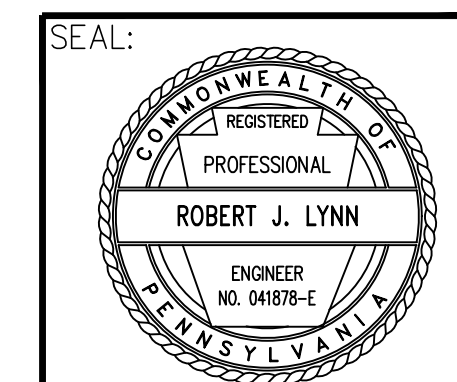
**DRIVEWAY APRON**  
 TYPE 3A  
 SCALE: 1" = 5'

**DRIVEWAY APRON DETAILS**



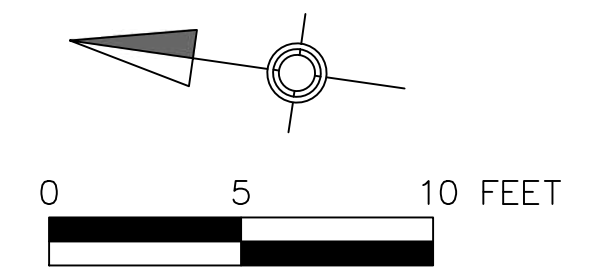
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 DRAWN BY: RGT/RLS CHECKED BY: RJL



REG. PROFESSIONAL ENGINEER  
 DATE: 06/25/24

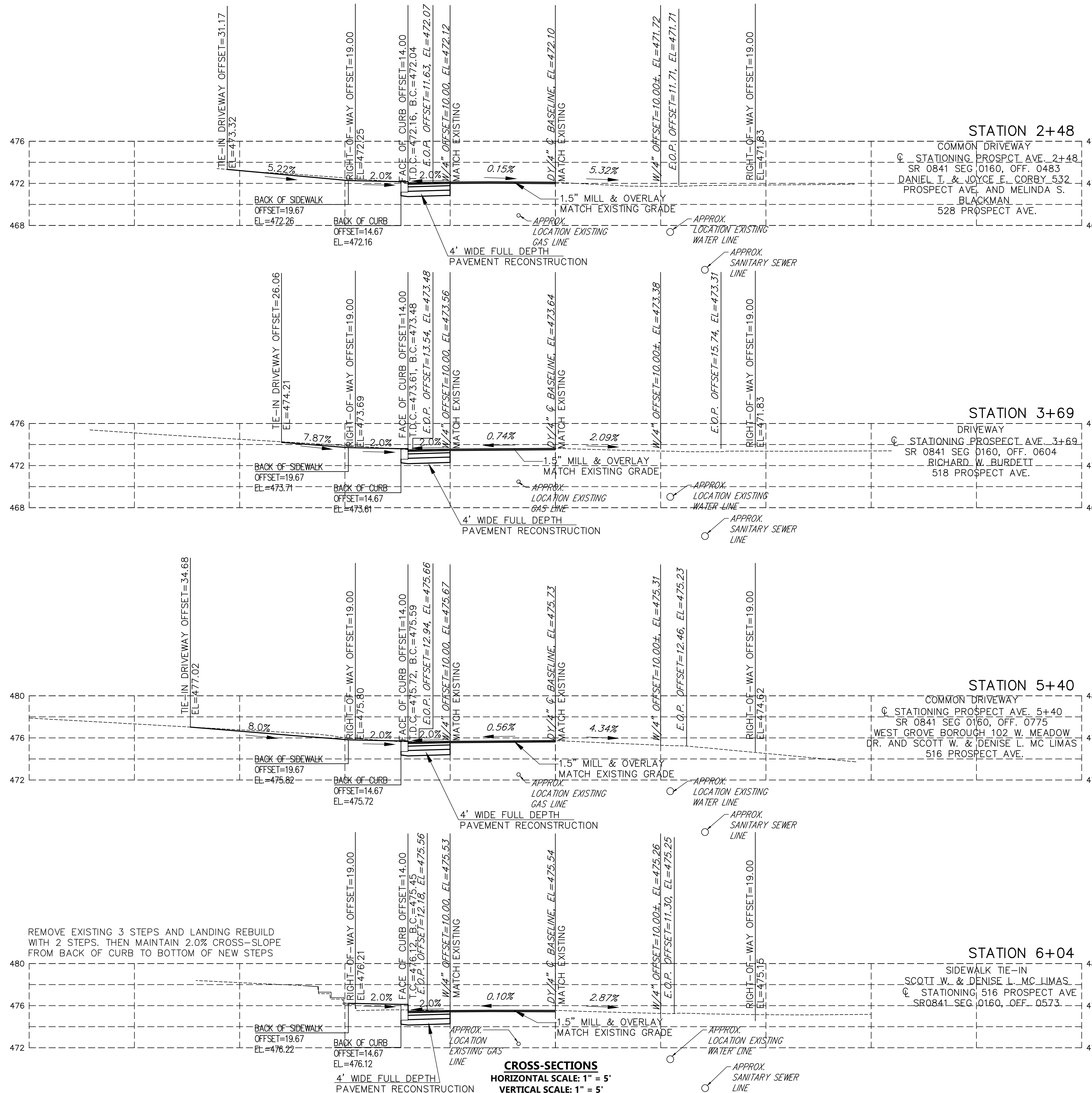
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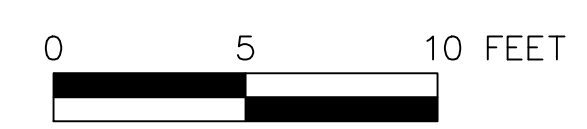
Y:\Projects\Municipal\West Grove Borough\WGB23-12 - Prospect Ave. HOP\WGB23-12 - Design-Base.dwg Jun 25, 2024 3:16pm



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|--------------------|-----------|-------|---------|----------|
| DISTRICT           | COUNTY    | ROUTE | SECTION | SHEET    |
| 6-0                | CHESTER   | 0841  | ----    | 09 OF 12 |
| WEST GROVE BOROUGH |           |       |         |          |
| REVISION NUMBER    | REVISIONS |       |         | DATE     |
|                    |           |       |         | BY       |



**CROSS-SECTIONS**  
**HORIZONTAL SCALE: 1" = 5'**  
**VERTICAL SCALE: 1" = 5'**

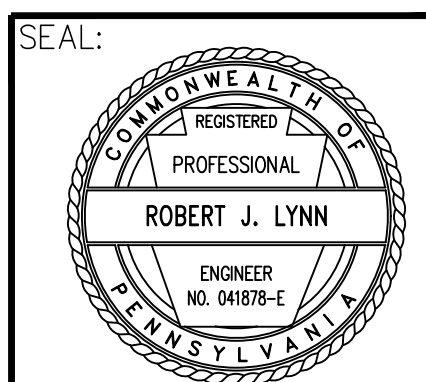


**CROSS-SECTIONS**



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DATE: 06/25/24 PROJECT DESIGNER: RJL JOB NO. WGB23-12  
 DRAWN BY: RGT/RLS CHECKED BY: RJL

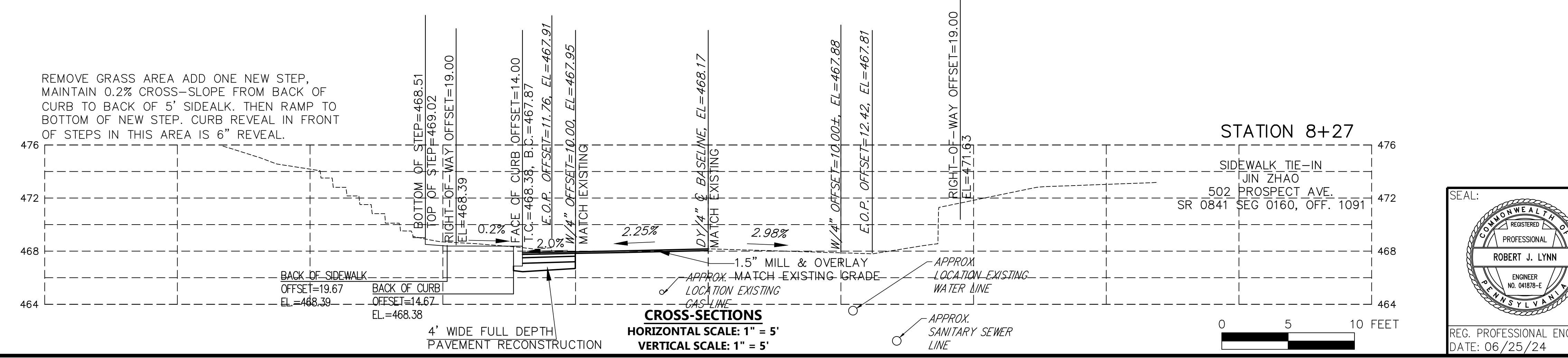
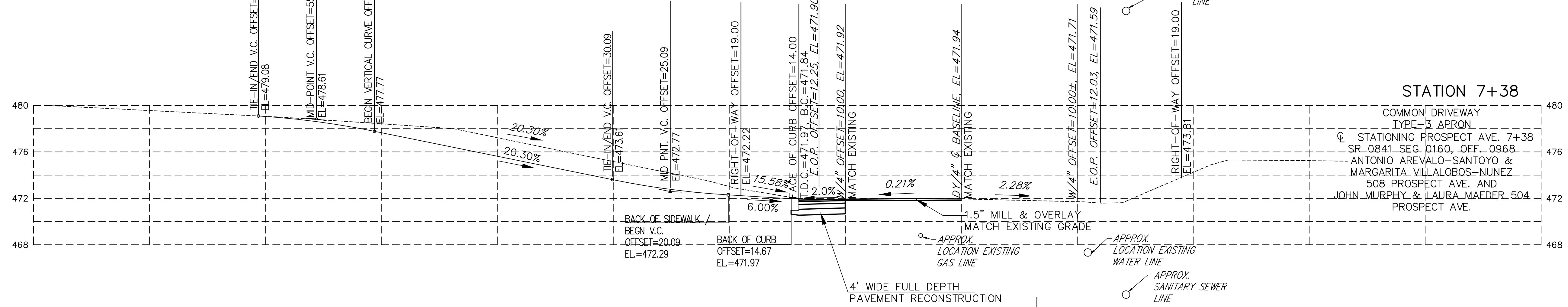
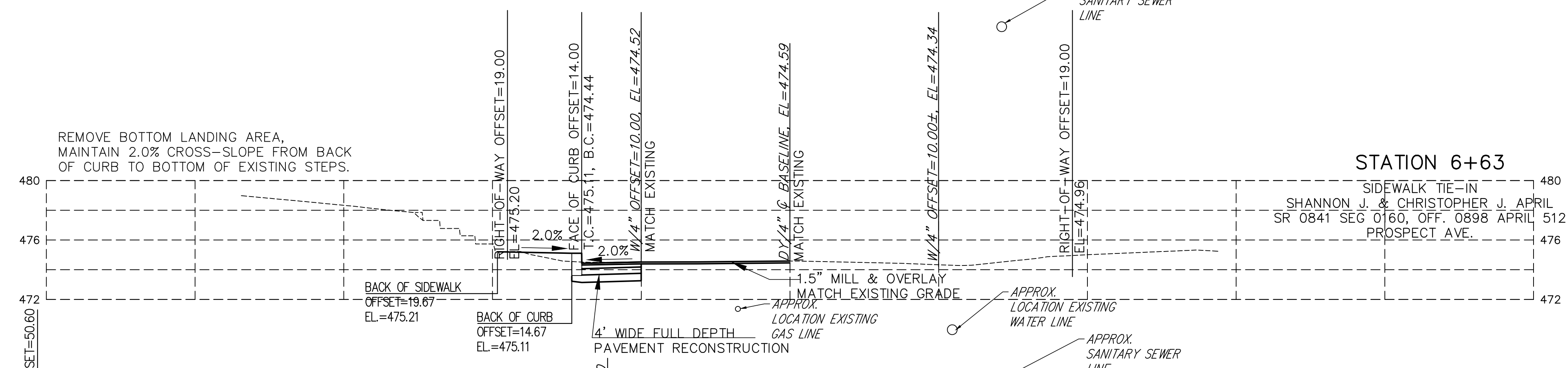
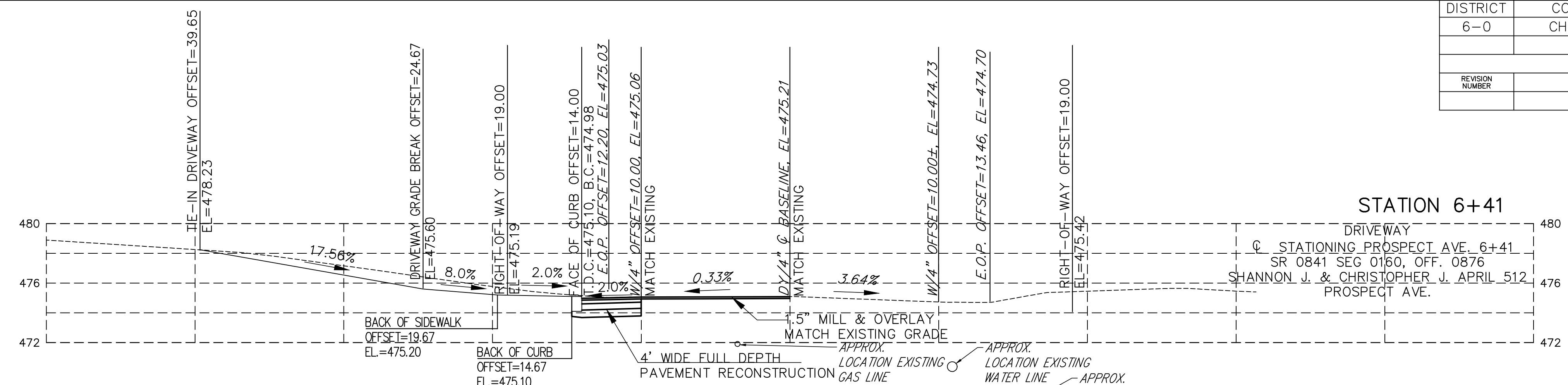


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Y:\Projects\Municipal\West Grove Borough\WGB23-12 - Prospect Ave HOP\WGB23-12 - Design-Base.dwg Jun 25, 2024 - 3:16pm

|                    |           |       |         |          |
|--------------------|-----------|-------|---------|----------|
| DISTRICT           | COUNTY    | ROUTE | SECTION | SHEET    |
| 6-0                | CHESTER   | 0841  | ----    | 10 OF 12 |
| WEST GROVE BOROUGH |           |       |         |          |
| REVISION NUMBER    | REVISIONS |       |         | DATE     |
|                    |           |       |         | BY       |



**CROSS-SECTIONS**  
**HORIZONTAL SCALE: 1" = 5'**  
**VERTICAL SCALE: 1" = 5'**

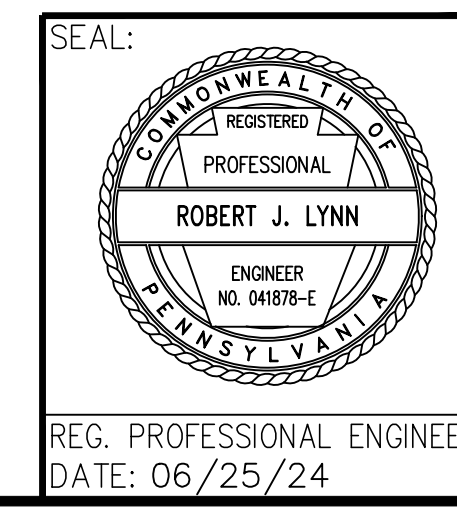


**CROSS-SECTIONS**



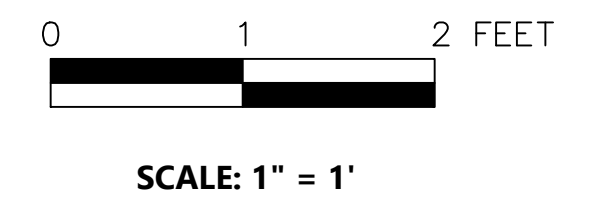
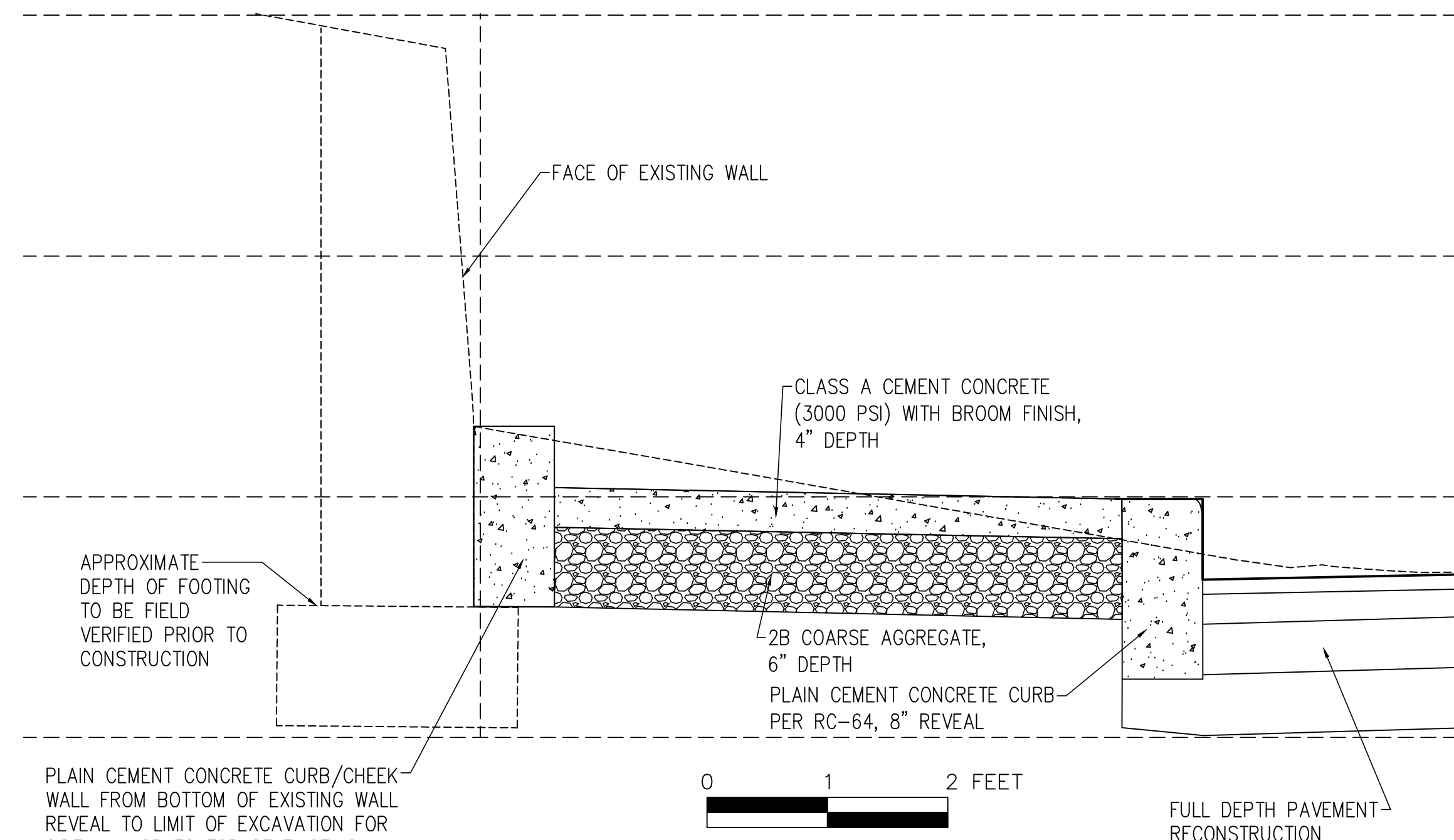
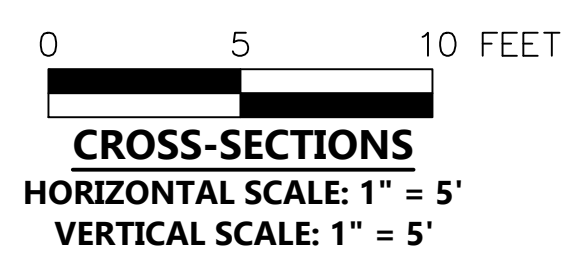
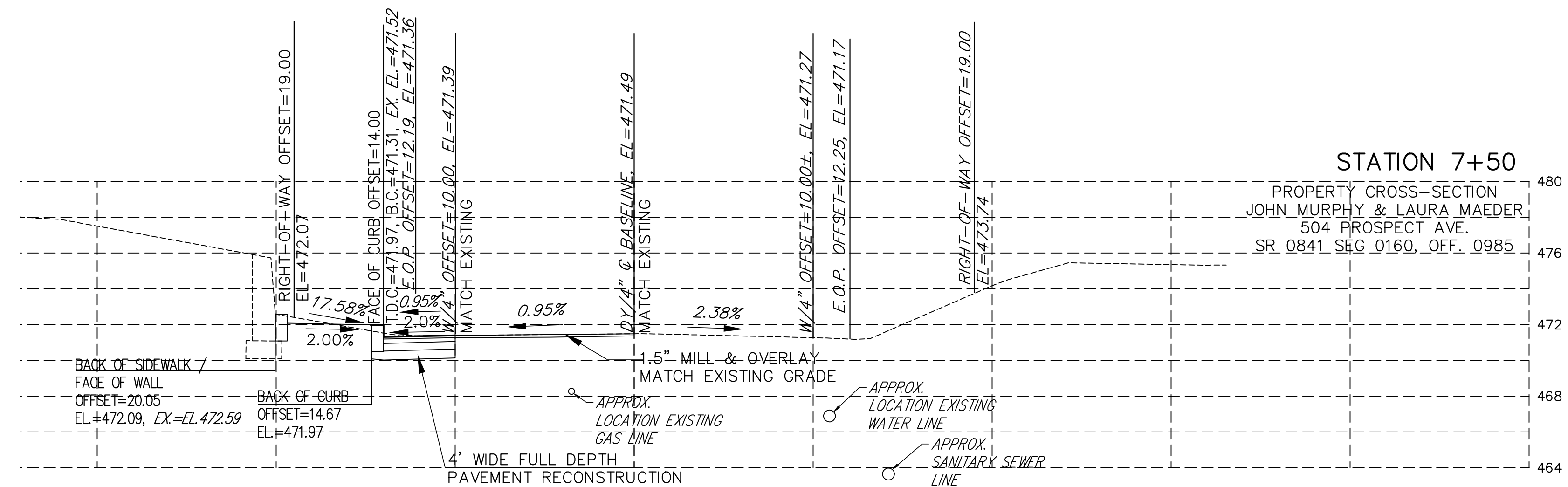
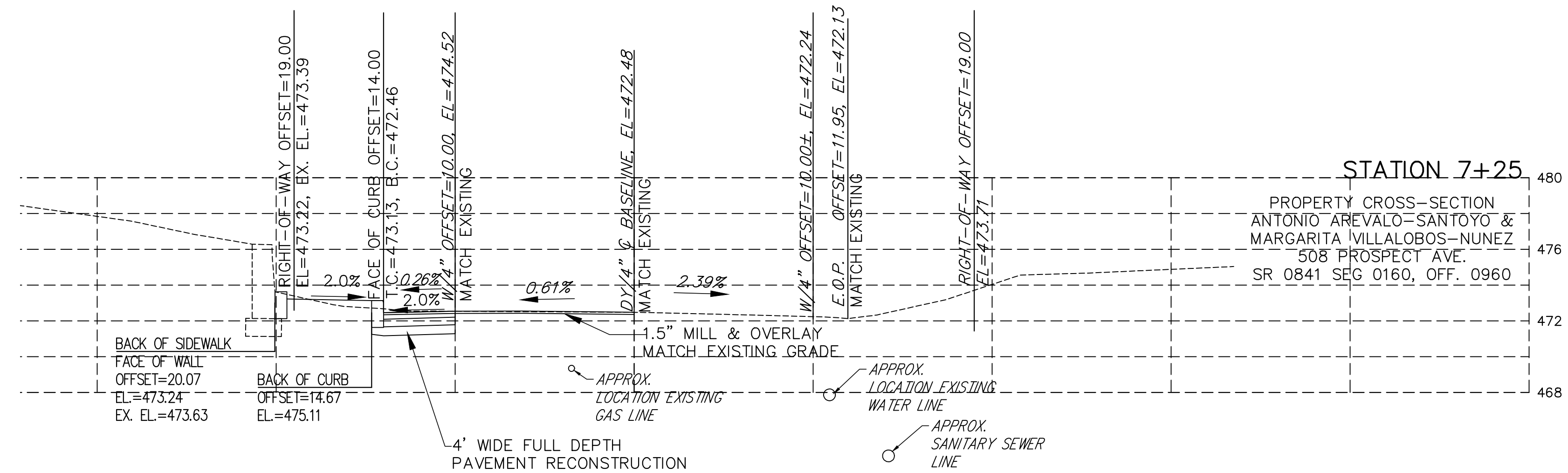
**Bethlehem Office**  
 252 Brodhead Road, Suite 100 P:610.691.5644  
 Bethlehem, PA 18017-8944 F:610.691.6968  
 HanoverEng.com

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| WEST GROVE BOROUGH |           |       |         |          |
| REVISION NUMBER    | REVISIONS |       |         | DATE BY  |



PLAIN CEMENT CONCRETE CURB/CHEEK WALL FROM BOTTOM OF EXISTING WALL REVEAL TO LIMIT OF EXCAVATION FOR SIDEWALK OR TO TOP OF EXISTING FOOTING.

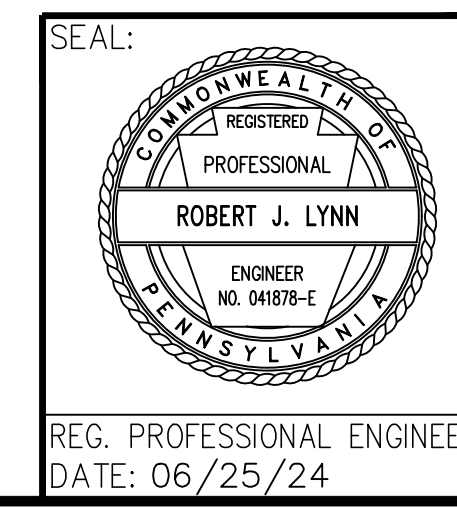
NOTE: EXISTING FOOTING DEPTH TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

CROSS-SECTIONS/WALL DETAILS



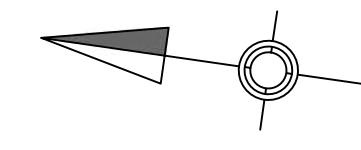
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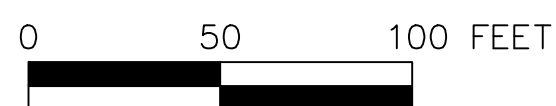
← CLEAR SIGHT DISTANCE  
187' REQUIRED 240' AVAILABLE REQUIRED 201' AVAILABLE 375' →



← CLEAR SIGHT DISTANCE  
187' REQUIRED 480' AVAILABLE REQUIRED 199' AVAILABLE 1000' →



NOTE: IT SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER TO MAINTAIN ADEQUATE SIGHT DISTANCE.

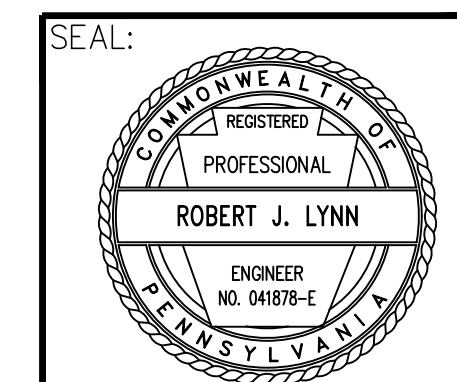


SIGHT DISTANCE PLAN



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|                      |                          |                     |
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