

| SHEET INDEX | |
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| STORMWATER MANAGEMENT INFORMATION | | | | | |
|-----------------------------------|-----------------|-------------------------|--------|---------|-----------------|
| PARCEL | FACILITY NUMBER | PRACTICE TYPE(QUANTITY) | PUBLIC | PRIVATE | HOA MAINTENANCE |
| PARCEL 263 | BIO RETENTION 1 | M-6 | | YES | YES |

| ROADWAY INFORMATION CHART | | | | |
|---------------------------|----------------------|--------------|--------------------|-----------|
| ROAD NAME | CLASSIFICATION | DESIGN SPEED | POSTED SPEED LIMIT | R/W WIDTH |
| COOKS LANE | PUBLIC ACCESS STREET | 30 M.P.H. | 25 M.P.H. | 35' |

| ADDRESS CHART | |
|---------------|-----------------|
| PARCEL # | STREET ADDRESS |
| 263 | 4008 COOKS LANE |
| 262 | 4004 COOKS LANE |
| 60 | 4000 COOKS LANE |
| 662 - LOT 1 | 3996 COOKS LANE |
| 662 - LOT 2 | 3992 COOKS LANE |
| 662 - LOT 3 | 3988 COOKS LANE |
| 264 - LOT 2 | 4001 COOKS LANE |

SITE ANALYSIS DATA CHART

- A. TOTAL AREA OF SITE = 0.94 AC. (COOKS LANE ROW)
- B. LIMIT OF DISTURBED AREA = 0.93 AC.
- C. PRESENT ZONING DESIGNATION = R-ED
- D. EXISTING USE: PUBLIC ACCESS STREET
- E. PROPOSED USE: PUBLIC ACCESS STREET HOUSING
- F. PREVIOUS HOWARD COUNTY FILES: P5048, F-80-092, & 5-17-006
- G. TOTAL AREA OF FLOODPLAIN LOCATED ON SITE 0.0 AC.
- H. TOTAL AREA OF SLOPES IN EXCESS OF 15% = 0.0 AC. (0 AC. 25% OR GREATER)
- I. TOTAL AREA OF WETLANDS (INCLUDING BUFFER) LOCATED ON SITE = 0.0 AC.
- J. TOTAL GREEN OPEN AREA = 1.00 AC.
- K. TOTAL IMPERVIOUS AREA = 0.53 AC.
- L. AREA OF ERODIBLE SOILS = 0.0 AC. (EXCESS OF 15%)

| SIGN CHART | | | | |
|------------|-----------------|--------|---|--------------------|
| ROAD NAME | CENTERLINE STA. | OFFSET | POSTED SIGN | SIGN CODE |
| COOKS LANE | 4+65 | 6+29 | NO PARKING ANYTIME | W3-1 |
| | 4+67 | +02 | NO PARKING ANYTIME | SEE DETAIL SHEET 7 |
| | 4+74 | +83 | NO PARKING ANYTIME | SEE DETAIL SHEET 7 |
| | 4+76 | 55 | NO PARKING ANYTIME | SEE DETAIL SHEET 7 |
| | 9+50 | 28 | NO PARKING ANYTIME | SEE DETAIL SHEET 7 |
| | 10+55 | 03 | NO PARKING ANYTIME | SEE DETAIL SHEET 7 |
| | 11+00 | 0+78 | NO PARKING ANYTIME | SEE DETAIL SHEET 7 |
| | 11+00 | 14' R | STOP AHEAD | W3-1 |
| | 11+55 | 56 | NO PARKING ANYTIME | SEE DETAIL SHEET 7 |
| | 12+50 | 24 | NO PARKING ANYTIME & SPEED LIMIT 25 | SEE DETAIL SHEET 7 |
| | 12+50 | 62 | NO PARKING HERE TO CORNER (LEFT ARROW) | W7-1 W7-3P |
| | 13+85 | 16 | NO PARKING HERE TO CORNER (WITH RIGHT ARROW) AND "NO PARKING ANYTIME" (WITH LEFT ARROW) | SEE DETAIL SHEET 7 |
| 13+85 | 82 | STOP | R1-1 | |

- 4+75 L ✓ NO PARKING ANY TIME
- 4+96 R ✓ NO PARKING ANY TIME & SPEED LIMIT 25
- 5+51 L ✓ NO PARKING ANY TIME & SPEED LIMIT 25

ROAD IMPROVEMENT PLAN

COOKS LANE

TAX MAP No. 24 GRID No. 18

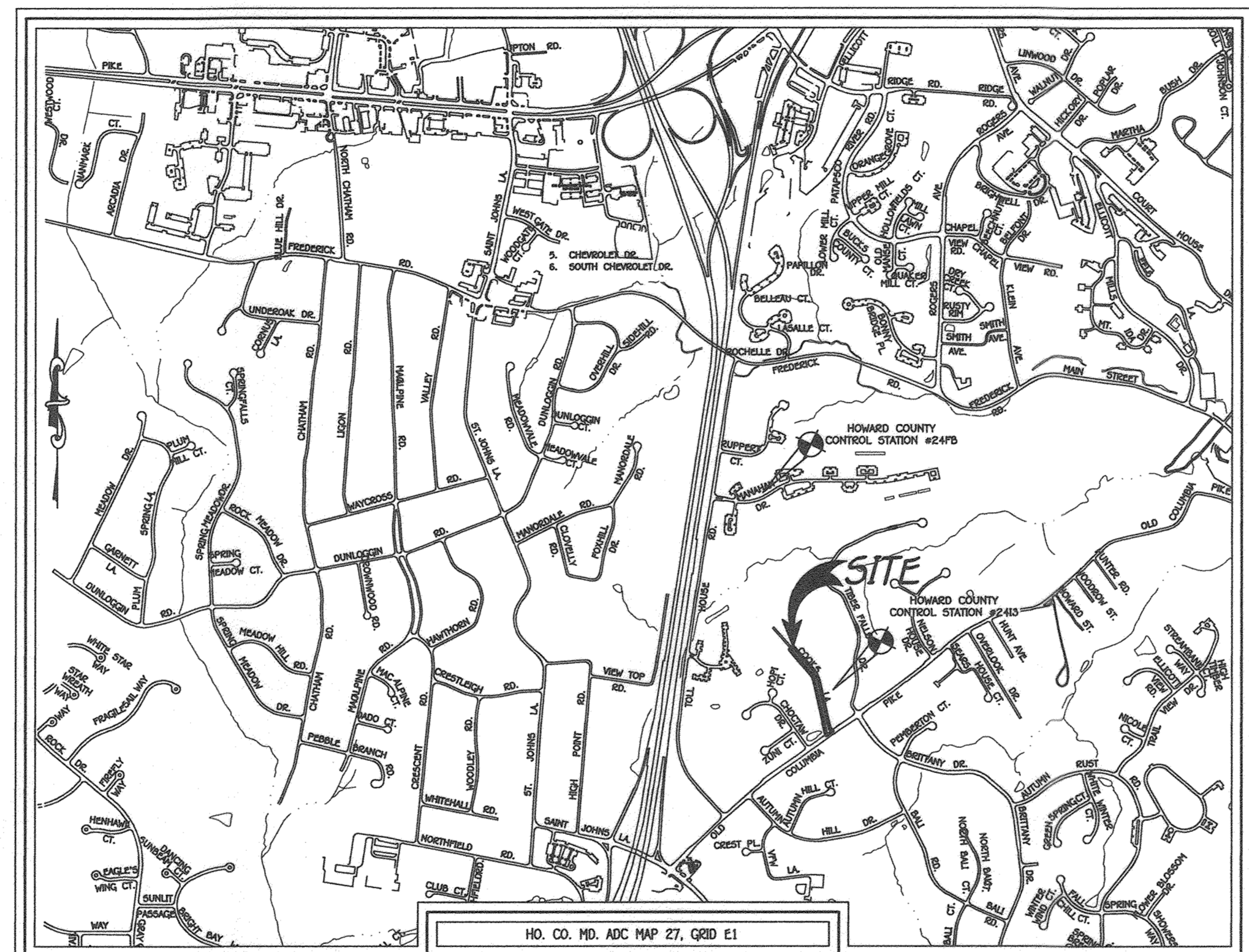
SECOND ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

THE INSTRUMENTS THAT WERE USED IN PERFORMING THIS AS-BUILT SURVEY: 10 SECOND ROBOTIC TOTAL STATION AND PRISM.

GENERAL NOTES

1. THE SUBJECT PROPERTY IS ZONED R-ED PER 10/06/2013 COMPREHENSIVE ZONING PLAN.
2. EXISTING UTILITIES ARE BASED ON CONTR. 10-0998-D, CONTR. 38-M AND CONTR. 542-5.
3. THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT. PUBLIC WATER AND PUBLIC SEWER EXIST WITHIN THIS PROJECT.
4. BOUNDARY INFORMATION IS BASED ON A SURVEY DATED SEPTEMBER, 2017 BY FISHER, COLLINS & CARTER, INC.
5. THE EXISTING TOPOGRAPHY INFORMATION SHOWN IS BASED ON HOWARD COUNTY AERIAL CONTOURS AND SUPPLEMENTED WITH A FIELD SURVEY OF WETLANDS AND STREAM BANKS PERFORMED ON OR ABOUT JANUARY, 2017 BY FISHER, COLLINS & CARTER, INC.
6. COORDINATES BASED ON NAD '83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NOS:
 - ✓ CONTROL STATION NO. 2418 NORTH 580,648.901 FEET ELEV. 403.703
 - EAST 1364,974.507 FEET
 - ✓ CONTROL STATION NO. 2478 NORTH 582,652.119 FEET ELEV. 422.492
 - EAST 1,384,255.979 FEET
7. NO CEMETERIES EXIST ON THIS SITE BASED ON A VISUAL SITE VISIT AND BASED ON AN EXAMINATION OF THE HOWARD COUNTY CEMETERY INVENTORY MAP.
8. COOKS LANE AND THE SECTION OF OLD COLUMBIA PIKE WHERE COOKS LANE INTERSECTS ARE NOT DESIGNATED AS SCENIC ROADS.
9. DISTANCES SHOWN ARE BASED ON SURFACE MEASUREMENT AND NOT REFERRED TO NAD '83 GRID.
10. PREVIOUS DEPARTMENT OF PLANNING AND ZONING FILE NUMBERS: P5048, F-80-092, & 5-17-006, ZB-1106M.
11. CONTRACTOR TO CONTACT THE HOWARD COUNTY TRAFFIC DIVISION (410) 313-9756 FOR COORDINATION OF STREET SIGN INSTALLATION.
12. TRAFFIC CONTROL DEVICES:
 - (a) THE R1-1 (STOP) SIGN AND THE STREET NAME SIGN (SNS) ASSEMBLY FOR THIS DEVELOPMENT MUST BE INSTALLED BEFORE THE BASE PAVING IS COMPLETED.
 - (b) THE TRAFFIC CONTROL DEVICE LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MUST BE FIELD APPROVED BY HOWARD COUNTY TRAFFIC DIVISION (410-313-2430) PRIOR TO THE INSTALLATION OF ANY OF THE TRAFFIC CONTROL DEVICES.
 - (c) ALL TRAFFIC CONTROL DEVICES AND THEIR LOCATIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 - (d) ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED (LOUCI PUNCH), SQUARE TUBE POST (1 1/2" GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE SLEEVE (1 1/2" GAUGE) ALONG THE HORIZONTAL SHALL NOT EXTEND MORE THAN TWO (2) QUARTER HOLES ABOVE GROUND LEVEL. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.
13. NO GRADING, REMOVAL OF VEGETATION, OR NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAMS, OR OTHER REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS.
14. NO FLOODPLAIN EXISTS WITHIN THE LIMITS OF THIS PROJECT.
15. THE FOREST STAND DELINEATION AND WETLAND DELINEATION FOR THIS PROJECT WAS PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. DATED FEBRUARY, 2017.
16. SOILS SHOWN HEREON BASED ON NRCS WEBSOIL SURVEY AND HOWARD COUNTY SOIL SURVEY MAP #13.
17. ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
18. SIGHT DISTANCE IS NOT REQUIRED AT THE INTERSECTION OF COOKS LANE AND OLD COLUMBIA PIKE SINCE IT IS AN EXISTING INTERSECTION, CONFIRMS THAT A CLEAR LINE OF SIGHT EXISTS AT THE INTERSECTION LOOKING NORTH AND SOUTH ALONG OLD COLUMBIA PIKE.
19. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS / BUREAU OF ENGINEERING / CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST (5) WORKING DAYS PRIOR TO THE START OF WORK.
20. THE CONTRACTOR SHALL NOTIFY "PRESS UTILITY" AT 1-800-297-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
21. CONTRACTOR TO MAINTAIN ACCESS TO EXISTING HOMES ALONG COOKS LANE DURING CONSTRUCTION.
22. FOREST CONSERVATION OBLIGATIONS FOR THIS PROJECT WILL BE ADDRESSED BY SUBMISSION OF A DECLARATION OF INTENT IN ACCORDANCE WITH SECTION 16.122(b)(2)(iv) OF THE HOWARD COUNTY CODE.
23. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
24. STREET LIGHT PLACEMENT AND THE TYPE OF FIXTURE AND POLE SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME III (1993) AND AS MODIFIED BY "GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENTS (JUNE 1993)." A MINIMUM SPACING OF 20' SHALL BE MAINTAINED BETWEEN ANY STREETLIGHT AND ANY TREE.
25. THE IMPROVEMENTS PROPOSED WITHIN THIS PLAN ARE TO SATISFY A PORTION OF ENHANCEMENT 3 LISTED IN THE BODY OF THE DECISION AND ORDER ZB CASE 11086 APPROVED ON OCTOBER 13, 2016.
26. QUANTITY AND QUALITY STORMWATER MANAGEMENT WILL BE PROVIDED IN ACCORDANCE WITH THE MARYLAND DEPARTMENT OF ENVIRONMENT STORM WATER DESIGN MANUAL, VOLUMES I & II, REVISED 2009. A SOUTHERN PORTION OF THE QUALITY TREATMENT FOR THIS PROJECT WILL BE PROVIDED BY A POND-RETENTION FACILITY (P-R) LOCATED ON PARCEL 263 AND WILL BE OWNED AND MAINTAINED BY THE DORSEY'S RIDGE HOMEOWNERS' ASSOCIATION. THE NORTHERN PORTION OF THIS PROJECT WILL RECEIVE QUALITY TREATMENT WITHIN AN EXISTING BIO-RETENTION FACILITY (F-B) PREVIOUSLY APPROVED ON DORSEY'S RIDGE (F-19-047) AND PUBLICLY OWNED AND MAINTAINED QUANTITY STORMWATER MANAGEMENT, INCLUDING THE 100 YEAR STORM AND THE 2016 STORM (STORM OF RECORD) FOR THIS PROJECT HAS BEEN PROVIDED BY, AND PREVIOUSLY APPROVED UNDER, DORSEY'S RIDGE (F-19-047).
27. THIS PLAN IS SUBJECT TO A DESIGN MANUAL WAVEFORM APPROVED ON MARCH 29, 2021 TO SECTION 2.3 B.2 VERTICAL CURVES, AND SECTION 2.4 B.2 PAVEMENT WIDTHS AND CROSS SLOPE OF THE HOWARD COUNTY DESIGN MANUAL, VOLUME III, ROADS AND BRIDGES. THIS APPROVED DESIGN MANUAL WAVEFORM REQUEST ALLOWS:
 - A REDUCED VERTICAL CURVE LENGTH TO 60' IN LENGTH. THIS APPROVAL IS TO ALLOW A FULL LANDING GRADE AT THE INTERSECTION OF COOKS LANE AND OLD COLUMBIA PIKE.
 - A REDUCTION IN PAVING WIDTH FROM 24' TO 22' AND A CROSS-SLOPE SECTION IN LIEU OF A CROWNED SECTION BETWEEN STATIONS 6+18.99 AND 10+10.43 OF COOKS LANE. THIS APPROVAL IS LIMITED RIGHT-OF-WAY WIDTH OF COOKS LANE AND TO MEET EXISTING DRIVEWAY GRADES.



VICINITY MAP
SCALE: 1" = 1200'

| DORSEY'S RIDGE - 100-YEAR VS. ELLICOTT CITY FLOOD | | | | | | | |
|---|--------------|------------------|-------|-----------|------------------|-----------------------------|----------------------|
| DRAINAGE AREA DESIGNATION | Area (Acres) | AREA (SQ. MILES) | RCN | T/C (hrs) | 100-YEAR Q (CFS) | ELLICOTT CITY FLOOD Q (CFS) | REMARKS |
| A-ex | 3.94 | 0.00616 | 69 | 0.18 | 17.06 | 28.03 | Pgs. 224-247 |
| B-ex | 6.30 | 0.00984 | 61 | 0.18 | 21.82 | 25.95 | Pgs. 224-247 |
| C-ex | 4.28 | 0.00669 | 62 | 0.12 | 17.24 | 34.18 | Pgs. 224-247 |
| Total Addhyd | 14.52 | ----- | ----- | ----- | 55.17 | 87.54 | |
| Cooks Lane Ex. | 1.09 | 0.00170 | 76 | 0.24 | 4.94 | 8.57 | |
| Total Existing | 14.52 | ----- | ----- | ----- | 59.89 | 95.89 | Total Ex. via Addhyd |
| A-1-Pr | 1.68 | 0.00263 | 85 | 0.11 | 11.05 | 19.48 | Pgs. 248-301 |
| A-1-Bio#2 - Outflow | ----- | ----- | ----- | ----- | 7.63 | 17.78 | Pgs. 248-301 |
| A-2-PR | 1.74 | 0.00272 | 80 | 0.14 | 10.08 | 17.31 | Pgs. 248-301 |
| B-pr-Inflow | 7.44 | 0.01163 | 82 | 0.21 | 40.04 | 71.15 | Prop. Inflow to Pond |
| | | | | | | | 'B' Pgs. 248-301 |
| B-Pond-Outflow | ----- | ----- | ----- | ----- | 19.94 | 47.12 | Pond Outflow |
| C-pr | 3.01 | 0.00470 | 75 | 0.16 | 15.39 | 25.82 | Pgs. 248-301 |
| Total Proposed Dorsey | ----- | ----- | ----- | ----- | 45.87 | 75.77 | Total Pr. via Addhyd |
| Cooks Lane Pr. | 1.09 | ----- | ----- | ----- | 5.47 | 9.68 | |
| Total Addhyd | 14.96 | ----- | ----- | ----- | 51.33 | 85.28 | |
| Decrease from Ex. | ----- | ----- | ----- | ----- | 8.56 | 10.61 | |
| % Decrease | ----- | ----- | ----- | ----- | 16.70% | 12.40% Decrease | |

*ELLICOTT CITY FLOOD Q'S EXISTING CONDITIONS REFLECT RCN VALUES OF WOODS IN GOOD CONDITION
Existing 100-yr. Peak for site (F-19-047) and Cook's Lane (F-20-066) = 59.89 c.f.s.
Existing 2016 Peak for site (F-19-047) and Cook's Lane (F-20-066) = 95.89 c.f.s.
Proposed 100-yr. Peak for site (F-19-047) and Cook's Lane (F-20-066) = 51.83 c.f.s.
Proposed 2016 Peak for site (F-19-047) and Cook's Lane (F-20-066) = 85.28 c.f.s.

| LEGEND | |
|-----------|---|
| SYMBOL | DESCRIPTION |
| ---492--- | EXISTING 2' CONTOURS |
| ---490--- | EXISTING 10' CONTOURS |
| --- | PROPOSED CONTOUR |
| +362.5 | SPOT ELEVATION |
| H.P. | HIGH POINT |
| --- | SOILS LINES AND TYPE |
| --- | PROPOSED TREELINE |
| --- | EXISTING TREELINE |
| --- | EXISTING TREES & SHRUBS |
| --- | EXISTING TREES & SHRUBS (TO BE REMOVED) |
| T.B.R. | TO BE REMOVED OR RELOCATED |
| --- | EXISTING FENCE LINE |
| --- | EXISTING PAVING |
| --- | PROPOSED PAVING |
| --- | PUBLIC SEWER, WATER & UTILITY EASEMENT |
| --- | LIMITS OF DISTURBANCE |
| --- | CREDITED OPEN SPACE |
| --- | USE-IN-COMMON ACCESS EASEMENT |
| --- | SUPER SILT FENCE |
| B-7 | PROPOSED SWM BORING LOCATION |
| --- | PRIVATE DRAINAGE AND UTILITY EASEMENT |

PURPOSE STATEMENT:

THE APPROVAL OF THE C.E.F. ZONING (ZONING CASE ZB-1106M) FOR DORSEY'S RIDGE F-19-047 REQUIRED THE ENHANCEMENT OF COOKS LANE AND PORTIONS OF OLD COLUMBIA PIKE.
COOKS LANE WAS TO BE WIDENED TO THE EXTENT PRACTICABLE (22FT.) AND TO BE PROVIDED CURB AND GUTTER ALONG WITH A SIDEWALK. THIS WAS TO BE ACCOMPLISHED USING THE CURRENT ROAD GEOMETRY AND THE EXISTING 35' RIGHT OF WAY.
IN ADDITION, THE DEVELOPER AGREED TO REDUCE THE LANDING SLOPE OF OLD COLUMBIA PIKE IF BGE AND MR. WALLEY AGREED TO PROVIDE EASEMENT.
OLD COLUMBIA PIKE WAS TO BE PROVIDED A SIDEWALK TO CONNECT THE PROPOSED SIDEWALK TO THE EXISTING SIDEWALKS IN OLD COLUMBIA PIKE TO THE NORTHEAST AND SOUTHWEST.

AS-BUILT CERTIFICATION

I hereby certify, by my seal, that to the best of my knowledge and belief that the facilities shown on the plan was constructed as shown on this "AS-BUILT" plan meet the approved plans and specifications.

Date: Jan 2, 2021
PAUL GERARD CRAVANNAH #21020

TITLE SHEET
COOKS LANE

PREVIOUS FILE NUMBERS: P5048, F-80-092, & 5-17-006
ZONED: R-ED
TAX MAP NO.: 24 GRID NO.: 18
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: MAY, 2021
"AS-BUILT" SHEET 1 OF 19

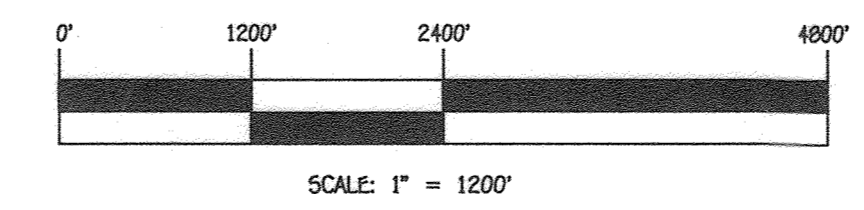
| STREET LIGHT CHART | | | |
|--------------------|------------------|--------|---|
| STREET NAME | STATION | OFFSET | FIXTURE/POLE TYPE |
| COOKS LANE | Ex. Per F-19-047 | 22' LT | ✓ 14" BLACK FIBERGLASS POLE W/ PREMIER COLONIAL FIXTURE AND L.E.D.-100 "NO PARKING ANY TIME" SIGN |
| | 41 | | |
| COOKS LANE | 12+75 | 10' LT | 14" BLACK FIBERGLASS POLE W/ PREMIER COLONIAL FIXTURE AND L.E.D.-100 NOT INSTALLED |
| COOKS LANE | 13+70 | 27' LT | 14" BLACK FIBERGLASS POLE W/ PREMIER COLONIAL FIXTURE AND L.E.D.-150 NOT INSTALLED |

Approved: Department Of Planning And Zoning
Chief, Division Of Land Development 9/16/21 Date
Chief, Development Engineering Division 7.14.21 Date
Approved: Howard County Department Of Public Works
Chief, Bureau Of Highways 07/02/2021 Date

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 461 - 2855

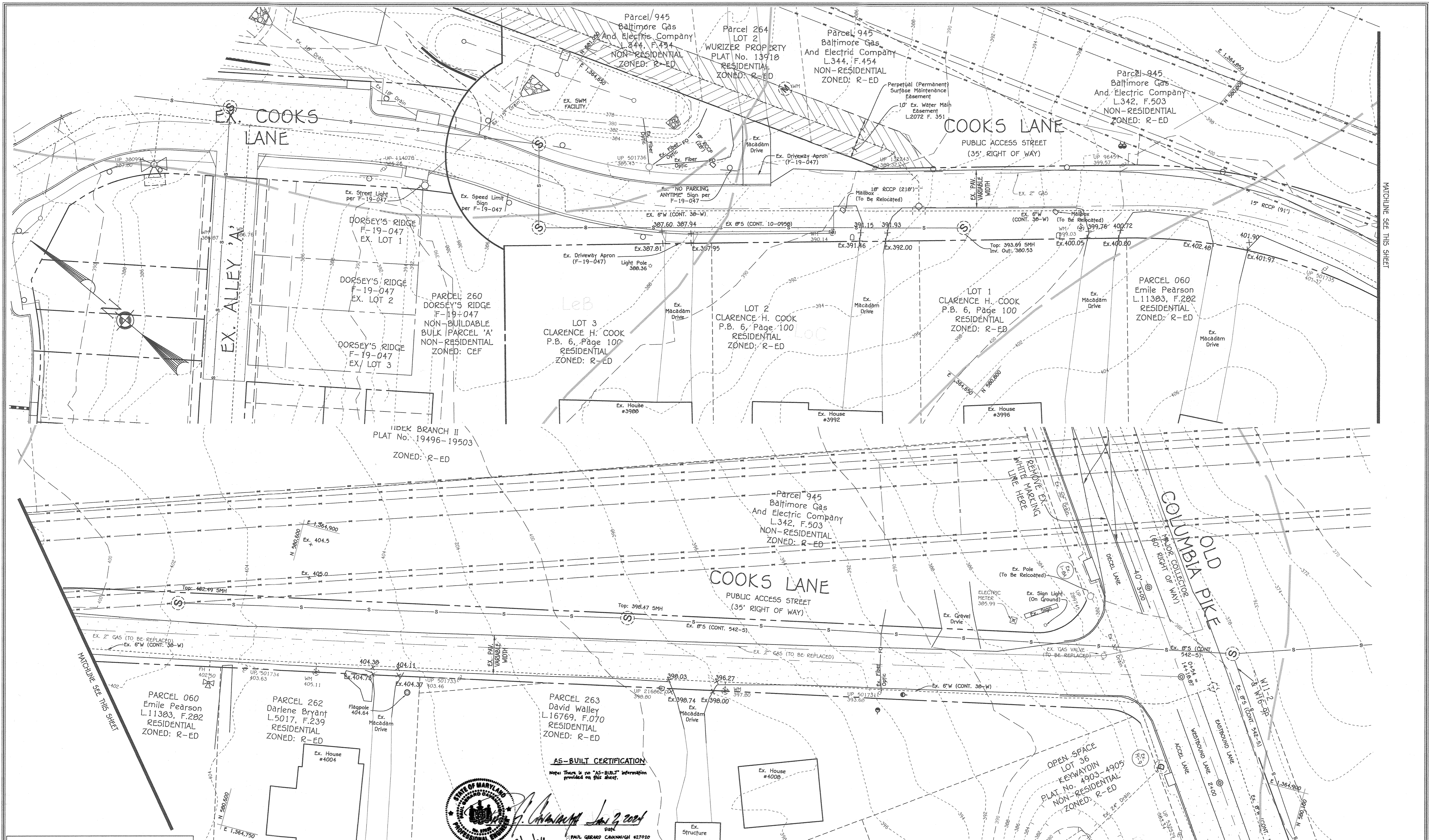


PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/21.
Frank John Threlanow II 5/23/21
FRANK THRELANOW II



OWNER
HOWARD COUNTY, MARYLAND
3430 COURT HOUSE DRIVE
ELLICOTT CITY, MD
410-313-4401

DEVELOPER
TERRY'S PLACE DEVELOPMENT, LLC
C/O DAVE WOESSNER
308 MAGOTHY ROAD
SEVERNA PARK, MD 21146
410-461-0837



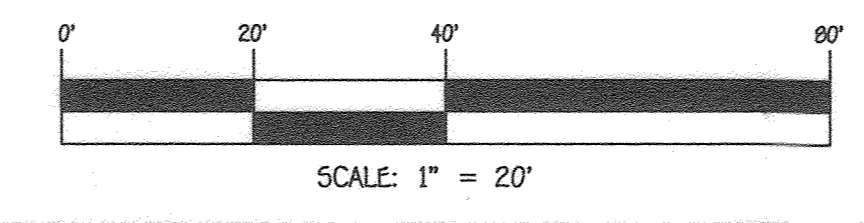
Approved: Department Of Planning And Zoning
 Chief, Division Of Land Development
 Date: 9/16/21
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 Approved: Howard County Department Of Public Works
 Chief, Bureau Of Highways
 Date: 07/02/2021

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 (410) 461-2000



AS-BUILT CERTIFICATION
 Note: There is no "AS-BUILT" information provided on this sheet.
 Paul Gerard Camannaugh #27020
 Date: 5/23/21

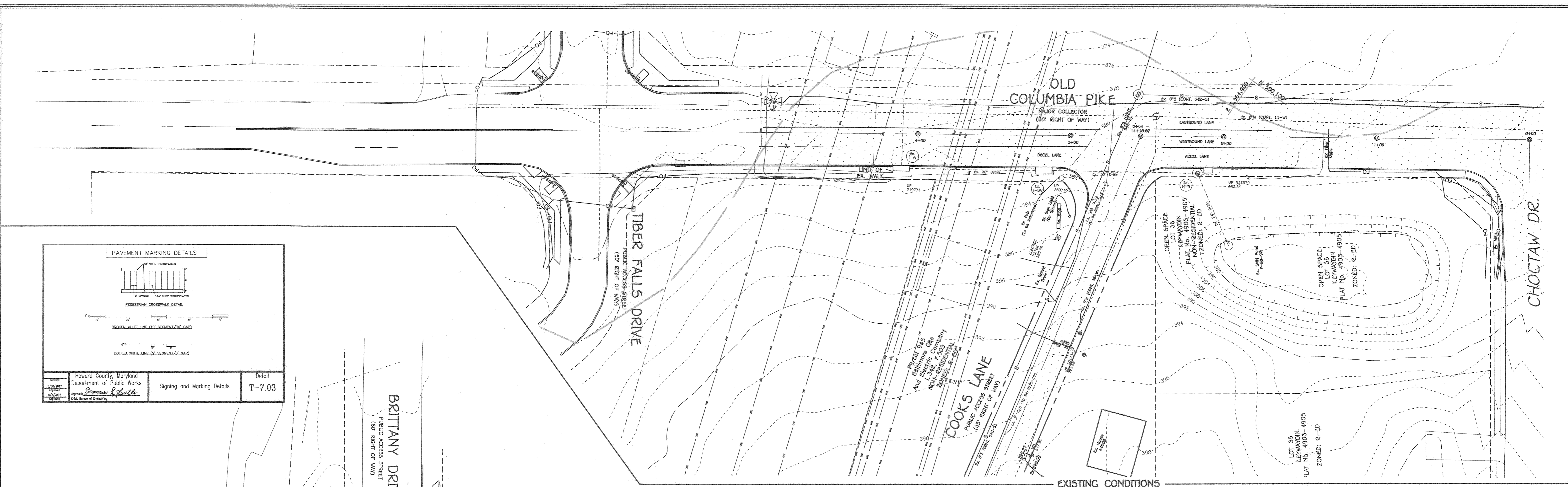
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 Frank John Darralson II
 Date: 5/23/21



OWNER
 HOWARD COUNTY, MARYLAND
 3430 COURT HOUSE DRIVE
 ELLICOTT CITY, MD
 410-313-4401

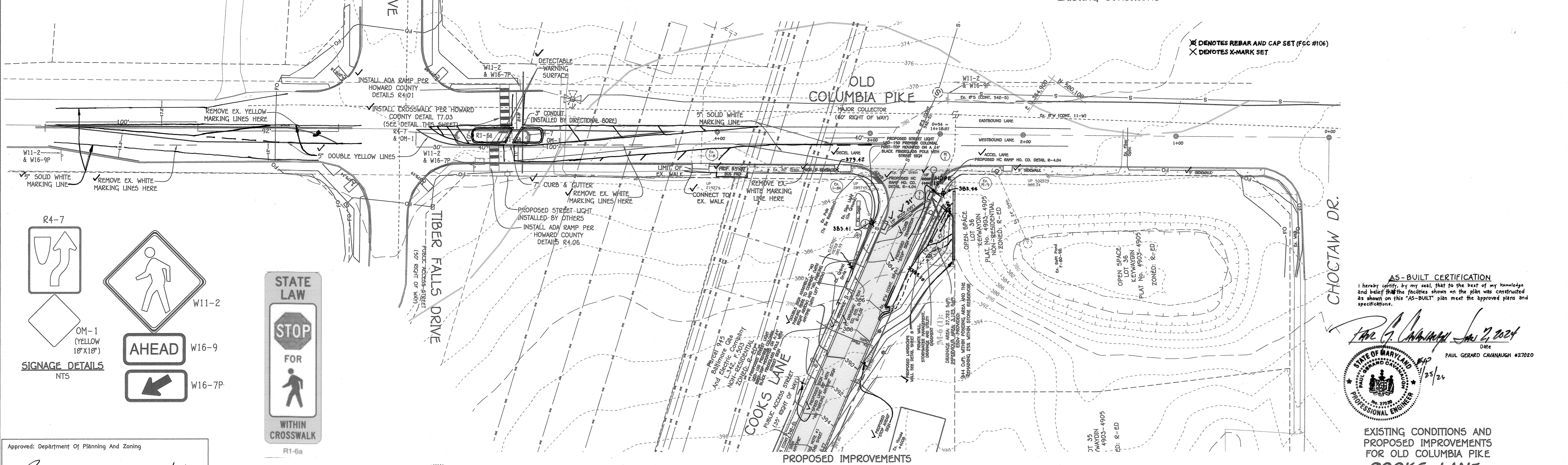
DEVELOPER
 TERRY'S PLACE DEVELOPMENT, LLC
 C/O DAVE WOESSNER
 308 MAGDOY ROAD
 SEVERNA PARK, MD 21146
 410-461-0837

EXISTING CONDITIONS PLAN
COOKS LANE
 PREVIOUS FILE NUMBERS: P5040, F-80-092, & 5-17-006
 ZONED: R-ED
 TAX MAP NO.: 24 GRID NO.: 18
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: MAY, 2021
 SHEET 2 OF 19



| PAVEMENT MARKING DETAILS | |
|--------------------------|---|
| | 1/2" REBAR AND CAP SET |
| | 1/2" WIRE REBAR |
| | PEDESTRIAN CROSSWALK DETAIL |
| | BROKEN WHITE LINE (1/2" SEGMENT/2" GAP) |
| | DOTTED WHITE LINE (1/2" SEGMENT/2" GAP) |

| | |
|--|---------------------------------------|
| HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS APPROVED: <i>[Signature]</i> DATE: 07/02/2021 CHIEF, BUREAU OF HIGHWAYS | SIGNING AND MARKING DETAILS T-7.03 |
|--|---------------------------------------|



SIGNAGE DETAILS
NTS

R4-7

W11-2

OM-1 (YELLOW 18" X 18")

AHEAD W16-9

W16-7P

STATE LAW

STOP FOR WITHIN CROSSWALK R1-6a

Approved: Department Of Planning And Zoning

Chief, Division Of Land Development *[Signature]* 7/14/21 Date

Chief, Development Engineering Division *[Signature]* 7/14/21 Date

Approved: Howard County Department Of Public Works

[Signature] 07/02/2021 Date
Chief, Bureau Of Highways

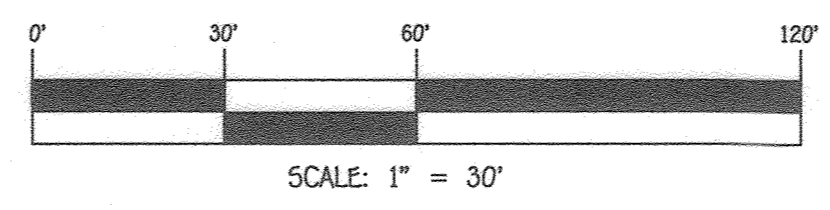
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21114
(410) 461-2999



PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/21.

[Signature] 7/1/21
FRANK HAVELOK II



OWNER

HOWARD COUNTY, MARYLAND
3430 COURT HOUSE DRIVE
ELICOTT CITY, MD
410-313-4401

DEVELOPER

TERRY'S PLACE DEVELOPMENT, LLC
C/O DAVE WOESSNER
308 MAGOOTH ROAD
SEVERNA PARK, MD 21146
410-461-0937

AS-BUILT CERTIFICATION

I hereby certify, by my seal, that to the best of my knowledge and belief the facilities shown on the plan was constructed as shown on this "AS-BUILT" plan meet the approved plans and specifications.

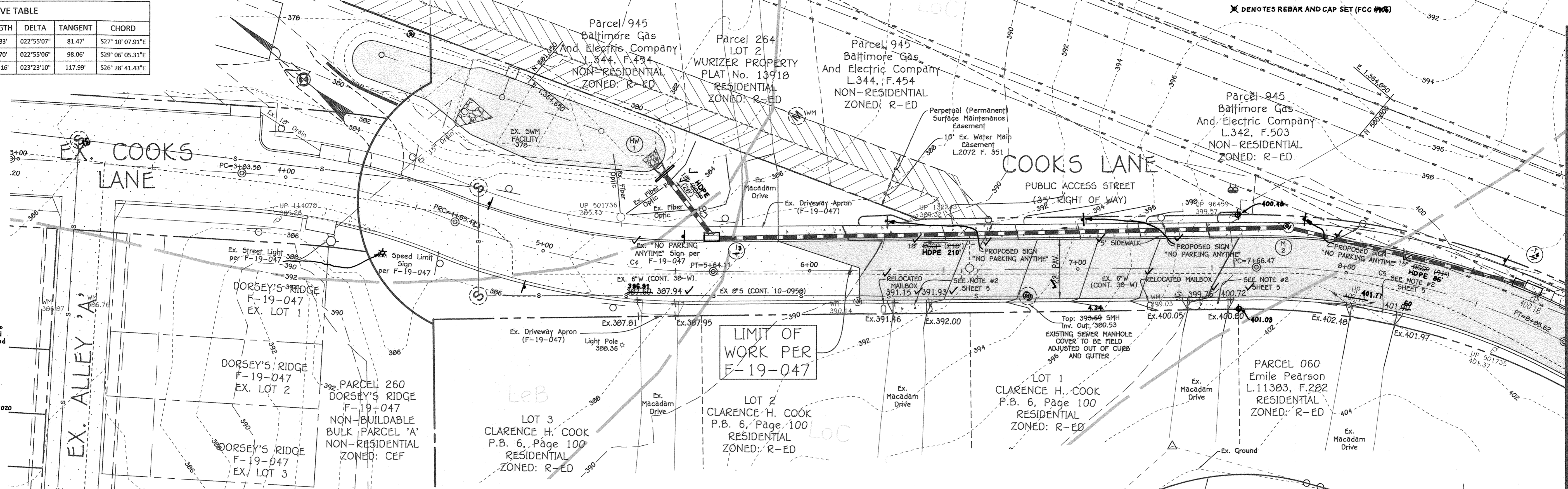
[Signature] 7/2/2024 Date
PAUL GERARD CAVANAUGH #27020

STATE OF MARYLAND
PAUL GERARD CAVANAUGH
PROFESSIONAL ENGINEER

EXISTING CONDITIONS AND PROPOSED IMPROVEMENTS FOR OLD COLUMBIA PIKE COOKS LANE

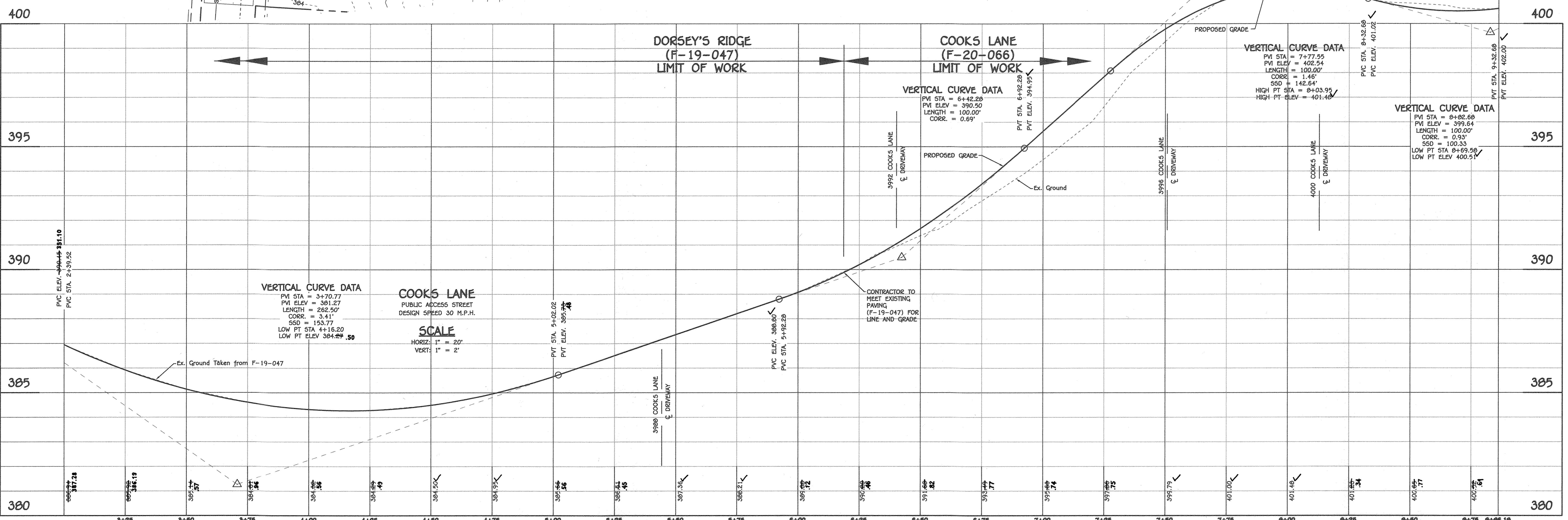
PREVIOUS FILE NUMBERS: PS048, F-80-092, & S-17-006
ZONED: R-ED
TAX MAP NO.: 24 GRID NO.: 18
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: MAY, 2021
AS-BUILT SHEET 3 OF 19

| PROPOSED ALIGNMENT CURVE TABLE | | | | | | |
|--------------------------------|------------|----------------------------|---------|---------|------------|---------|
| CURVE # | ROAD NAME | STATION | RADIUS | LENGTH | DELTA | TANGENT |
| C3 | COOKS LANE | STA 3+83.58 TO STA 4+65.41 | 250.00' | 81.83' | 022°55'07" | 81.47' |
| C4 | COOKS LANE | STA 4+65.41 TO STA 5+64.11 | 250.00' | 98.70' | 022°55'06" | 98.06' |
| C5 | COOKS LANE | STA 7+66.47 TO STA 8+85.62 | 245.00' | 119.16' | 023°23'10" | 117.99' |



AS-BUILT CERTIFICATION
 I hereby certify, by my seal, that to the best of my knowledge and belief that the facilities shown on this plan were constructed as shown on this "AS-BUILT" plan meet the approved plans and specifications.

Paul Gerard Cavanaugh
 PAUL GERARD CAVANAUGH #27020
 PROFESSIONAL ENGINEER



Approved: Department Of Planning And Zoning

Chief, Division Of Land Development
9/16/21
 Date

Chief, Development Engineering Division
7-14-21
 Date

Approved: Howard County Department Of Public Works

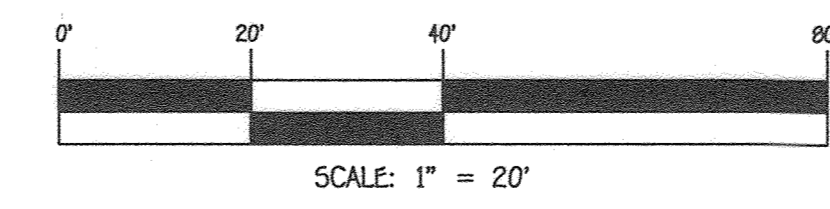
Chief, Bureau Of Highways
07/02/2021
 Date

FISHER, COLLINS & CARTER, INC.
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 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2895



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/21.

Pratik Manojkumar II
 PRATIK MANOJKUMAR II
 5/23/21



OWNER
 HOWARD COUNTY, MARYLAND
 3430 COURT HOUSE DRIVE
 ELLICOTT CITY, MD
 410-313-4401

DEVELOPER
 TERRY'S PLACE DEVELOPMENT, LLC
 C/O DAVE WOESSNER
 308 MAGDOY ROAD
 SEVERNA PARK, MD 21146
 410-461-0837

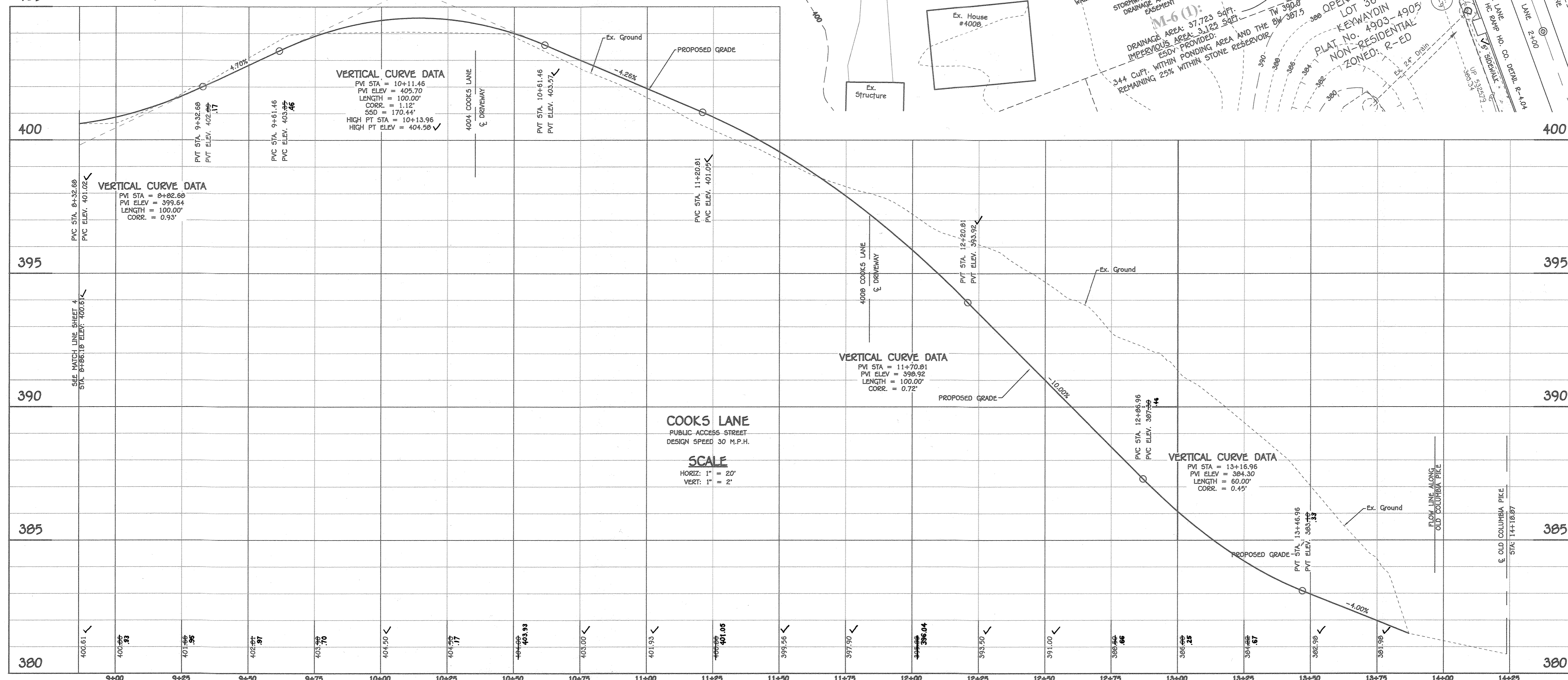
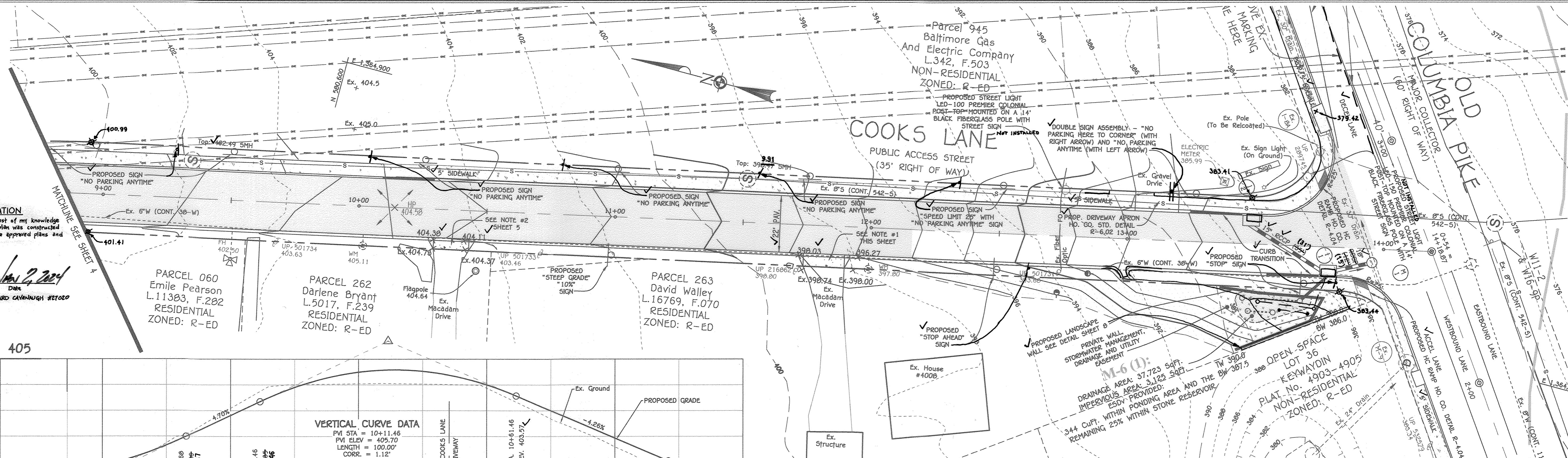
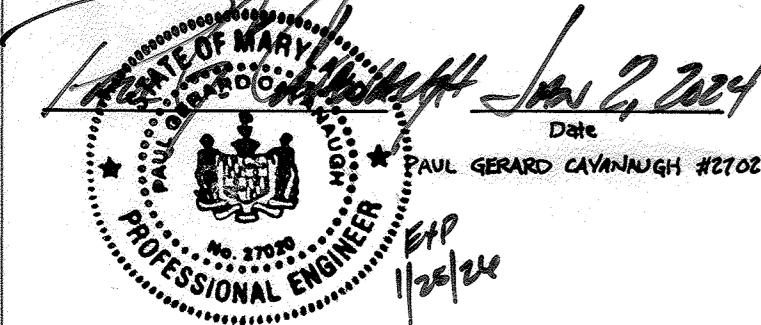
COOKS LANE ROAD IMPROVEMENT PLAN
COOKS LANE

PREVIOUS FILE NUMBERS: P5048, F-80-092, & 5-17-006
 ZONED: R-ED
 TAX MAP NO.: 24 GRID NO.: 1B
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: MAY, 2021
 AS-BUILT SHEET 4 OF 19

⊠ DENOTES REBAR AND CAP SET (FCC #106)
 ✕ DENOTES X-MARK SET

NOTES:
 1. PROPOSED DRIVEWAY APRON R-6.03 MODIFICATION 'A' SEE DETAIL SHEET 7
 2. PROPOSED DRIVEWAY APRON R-6.03 MODIFICATION 'B' SEE DETAIL SHEET 7

AS-BUILT CERTIFICATION
 I hereby certify, by my seal, that to the best of my knowledge and belief that the facilities shown on the plan was constructed as shown on this "AS-BUILT" plan meet the approved plans and specifications.

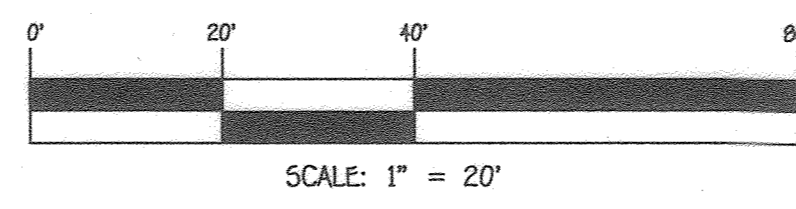


Approved: Department Of Planning And Zoning
 Chief, Division Of Land Development
 Chief, Development Engineering Division
 Approved: Howard County Department Of Public Works
 Chief, Bureau Of Highways

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 (410) 461-2995



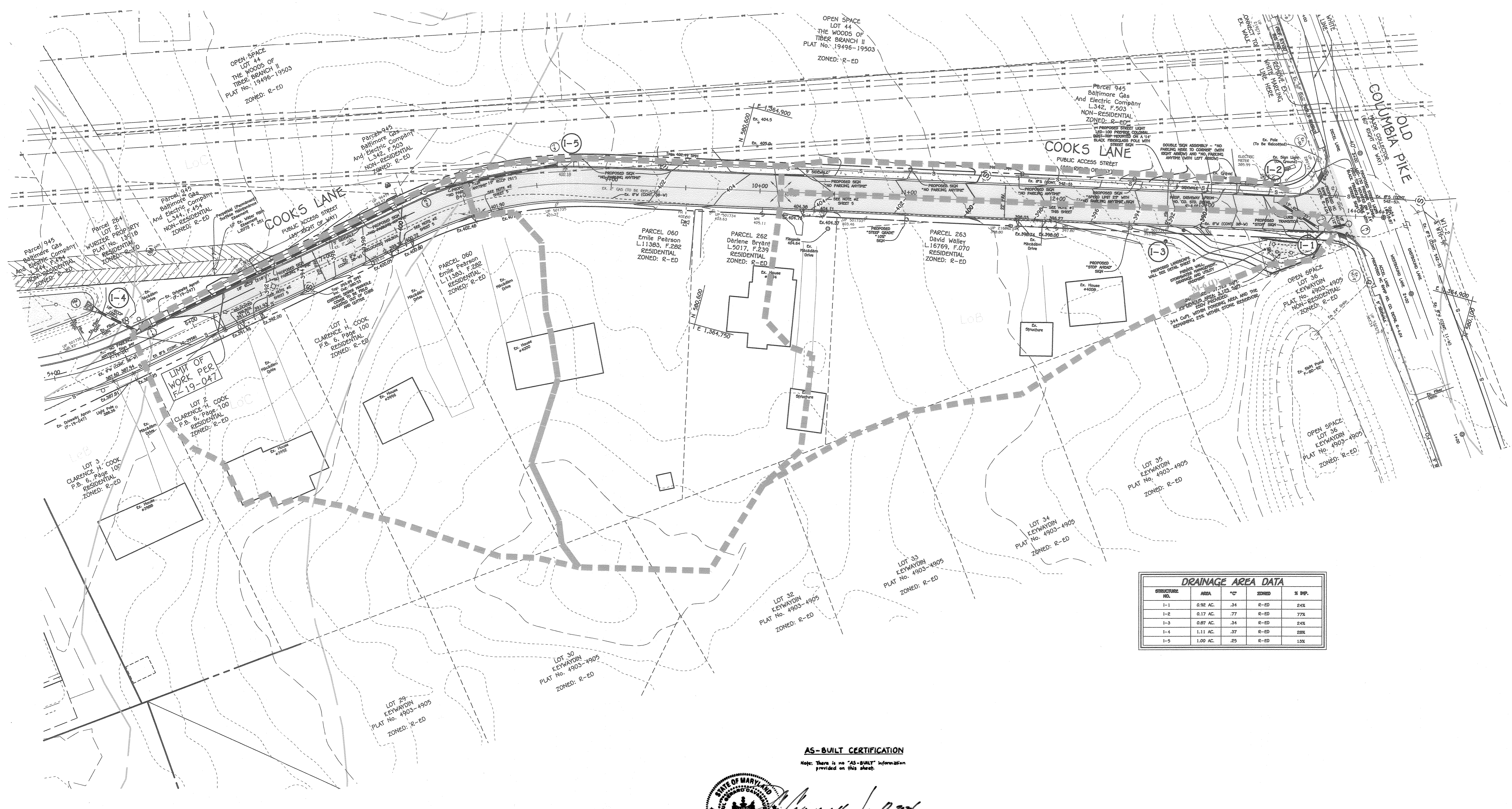
PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/21.



OWNER
 HOWARD COUNTY, MARYLAND
 3430 COURT HOUSE DRIVE
 ELICOTT CITY, MD
 410-313-4401

DEVELOPER
 TERRY'S PLACE DEVELOPMENT, LLC
 C/O DAVE WOODSNER
 308 MAGOTHY ROAD
 SEVERNA PARK, MD 21146
 410-461-0837

COOKS LANE IMPROVEMENT PLAN AND PROFILE
COOKS LANE
 PREVIOUS FILE NUMBERS: P5048, F-20-092, & 5-17-006
 ZONED: R-ED
 TAX MAP NO.: 24 GRID NO.: 18
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: MAY, 2021
 AS-BUILT SHEET 5 OF 19



| DRAINAGE AREA DATA | | | | |
|--------------------|----------|-----|--------|--------|
| STRUCTURE NO. | AREA | "C" | ZONING | % IMP. |
| I-1 | 0.92 AC. | .34 | R-ED | 24% |
| I-2 | 0.17 AC. | .77 | R-ED | 77% |
| I-3 | 0.87 AC. | .34 | R-ED | 24% |
| I-4 | 1.11 AC. | .37 | R-ED | 28% |
| I-5 | 1.00 AC. | .25 | R-ED | 13% |

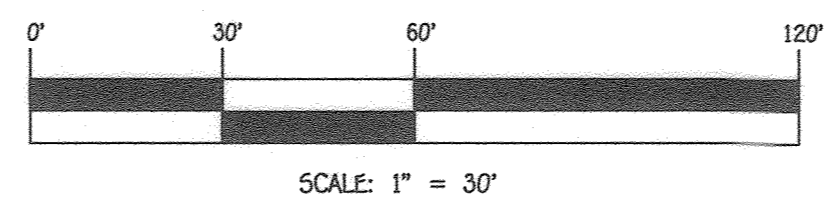
AS-BUILT CERTIFICATION

Note: There is no "AS-BUILT" information provided on this sheet.

STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 PAUL GERARD CANNANUGH #27020
 Date: 1/25/24



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/21.
 Frank John Parvathaneni II
 7/11/21



OWNER
 HOWARD COUNTY, MARYLAND
 3430 COURT HOUSE DRIVE
 ELLICOTT CITY, MD
 410-313-4401

DEVELOPER
 TERRY'S PLACE DEVELOPMENT, LLC
 C/O DAVE WOODSNER
 308 HACOOTHY ROAD
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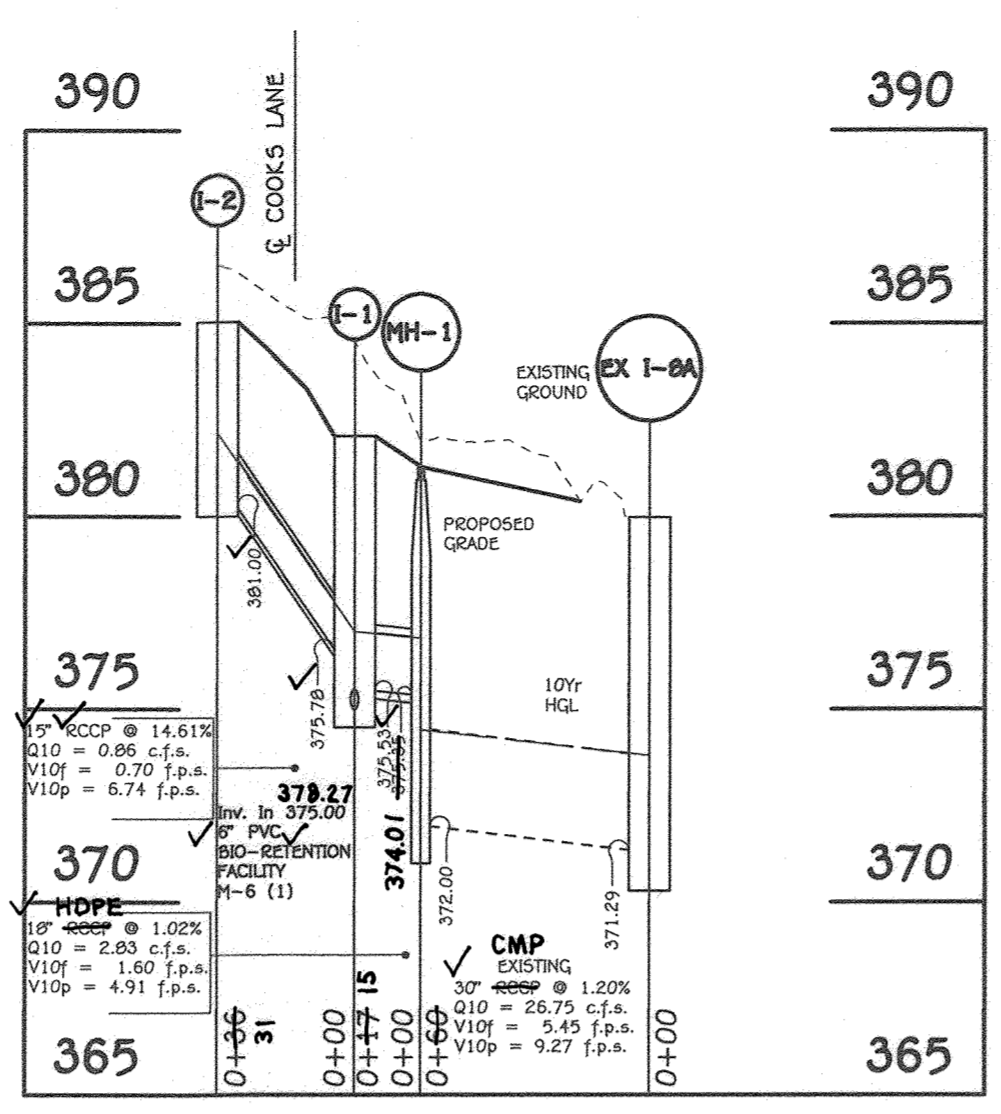
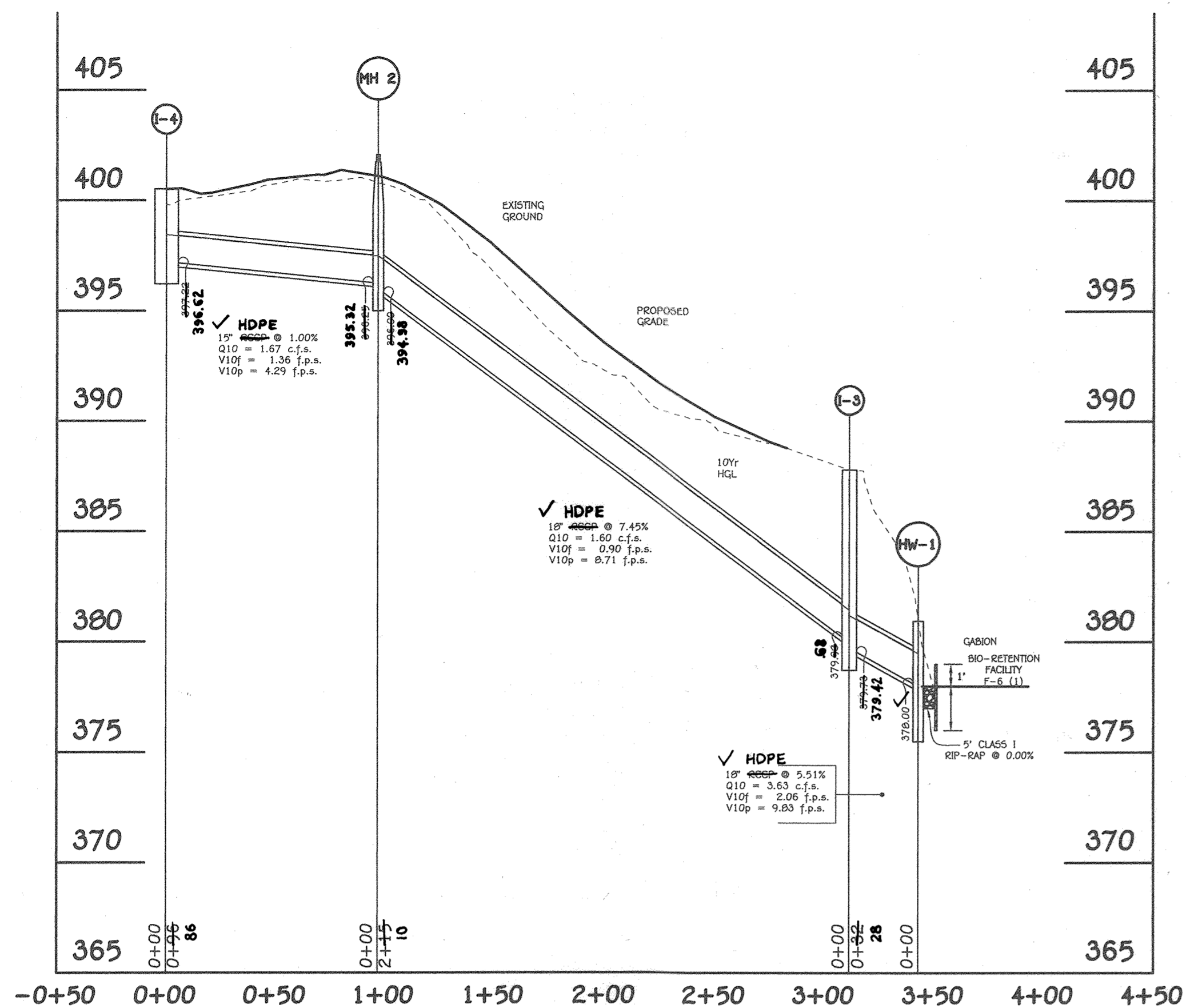
STORMDRAIN DRAINAGE AREA MAP

COOKS LANE

PREVIOUS FILE NUMBERS: P5048, F-80-092, & 5-17-005
 ZONED: R-ED
 TAX MAP NO.: 24 GRID NO.: 18
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: MAY, 2021
 THERE IS NO AS-BUILT INFORMATION ON THIS SHEET SHEET 6 OF 19

Approved: Department Of Planning And Zoning
 Chief, Division Of Land Development
 Chief, Development Engineering Division
 Approved: Howard County Department Of Public Works
 Chief, Bureau Of Highways

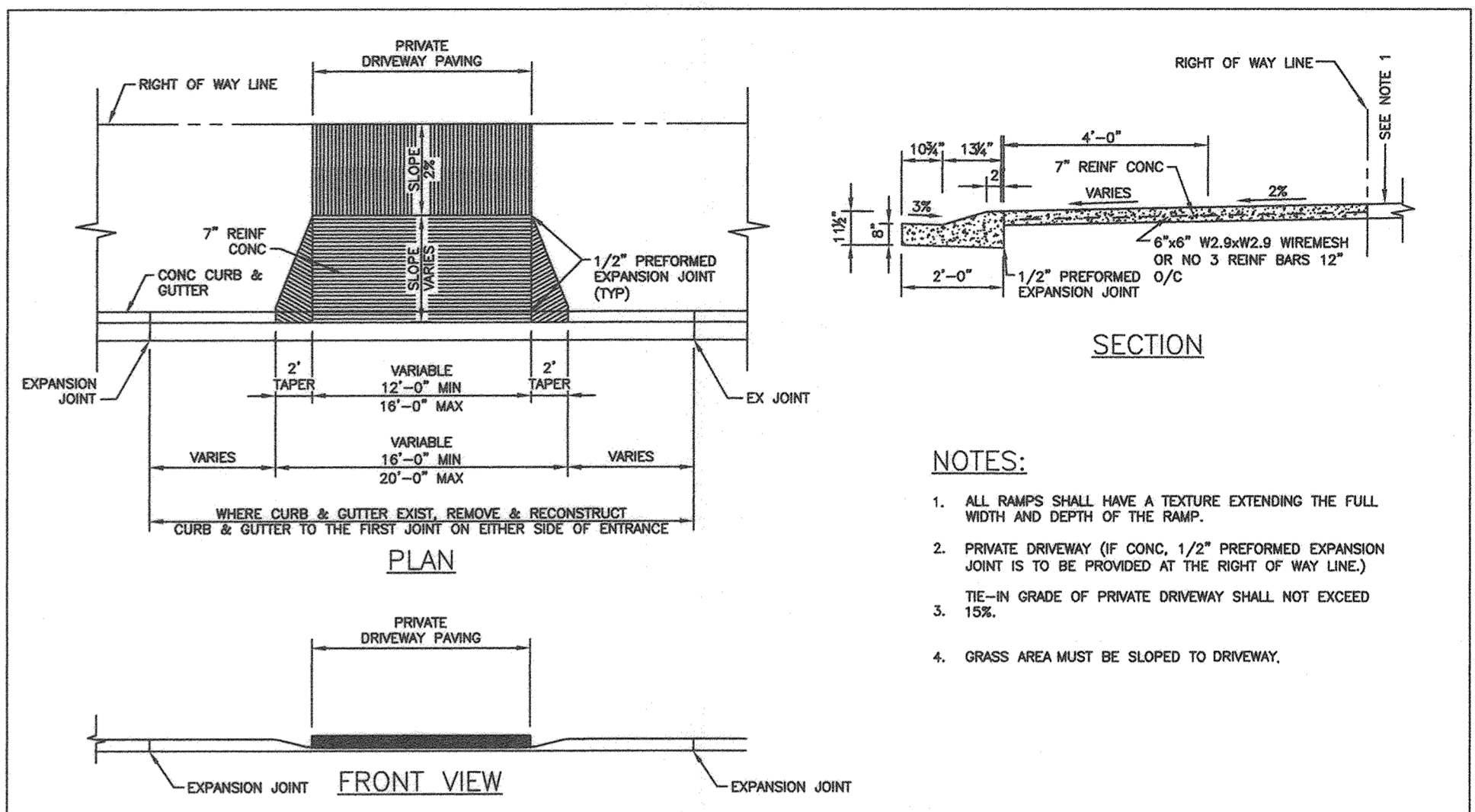
FISHER, COLLINS & CARTER, INC.
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 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21114
 (410) 461-2955



| STRUCTURE SCHEDULE | | | | | | | |
|--------------------|---------------------------|------------------|-------------------|------------|---------------------------|-----------------------|-----------|
| STRUCTURE NO. | OWNERSHIP AND MAINTENANCE | TOP ELEVATION | INV IN | INV OUT | COORDINATES | TYPE | REMARKS |
| I-1 | PUBLIC | 382.08 381.81 | 375.78 (I-2) 15' | 375.53 18' | N 580208.71 E 1364920.62 | DOUBLE TYPE 'S' INLET | D. - 4.23 |
| I-2 | PUBLIC | 385.03 316.40 | ----- | 381.00 15' | N 580242.59 E 1364931.99 | DOUBLE TYPE 'S' INLET | D. - 4.23 |
| I-3 | PUBLIC | 387.84 388.0 | 379.98 (MH 2) 18' | 378.42 18' | N 580960.221 E 1364647.76 | DOUBLE TYPE 'S' INLET | D. - 4.23 |
| I-4 | PUBLIC | 400.51 401.71 | ----- | 397.22 15' | N 580711.43 E 1364831.03 | DOUBLE TYPE 'S' INLET | D. - 4.23 |
| MH-1 | PUBLIC | 381.27 377.87 | 375.35 (I-1) 18' | 372.00 30' | N 580193.16 E 1364928.11 | 4' DIA. MANHOLE | G. - 5.12 |
| MH-2 | PUBLIC | 402.07 401.35 | 396.00 (I-5) 15' | 396.00 15' | N 580798.16 E 1364788.92 | 4' DIA. MANHOLE | G. - 5.12 |

| PIPE SCHEDULE | | |
|---------------|--------------|----------|
| SIZE | LENGTH | CLASS |
| 15" | RCCP, CL. IV | 132 L.F. |
| 18" | RCCP, CL. IV | 264 L.F. |

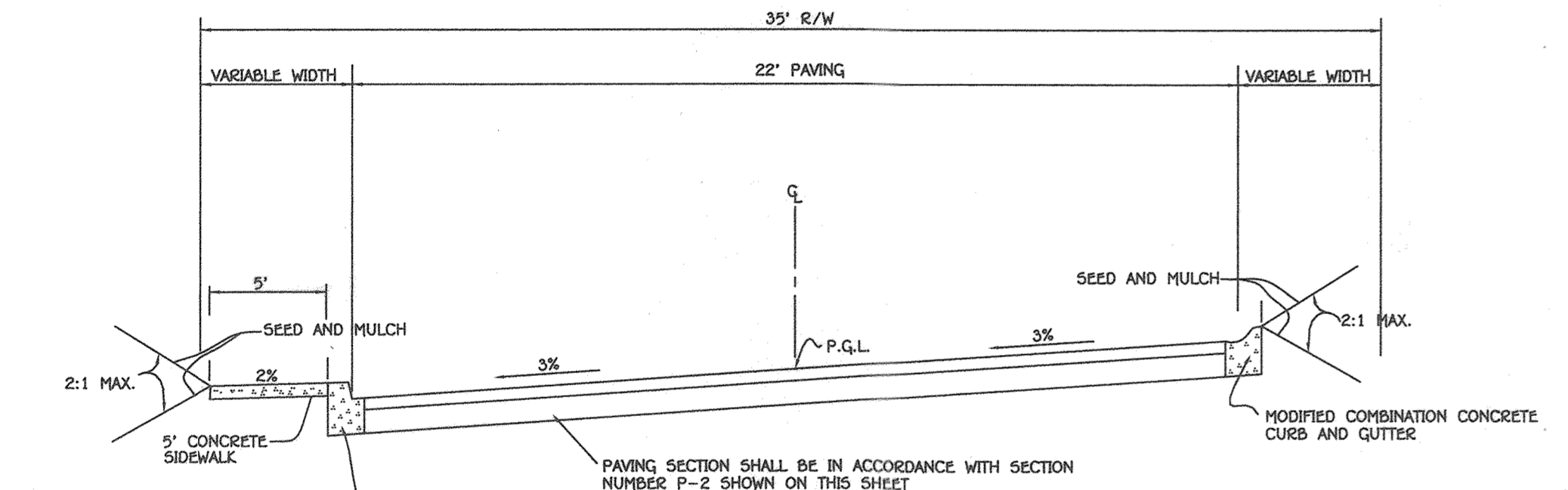
NOTE: RCCP, CL. IV MAY BE SUBSTITUTED WITH HDPE PIPE MATERIAL WHERE DEPTH OF COVER PERMITS.



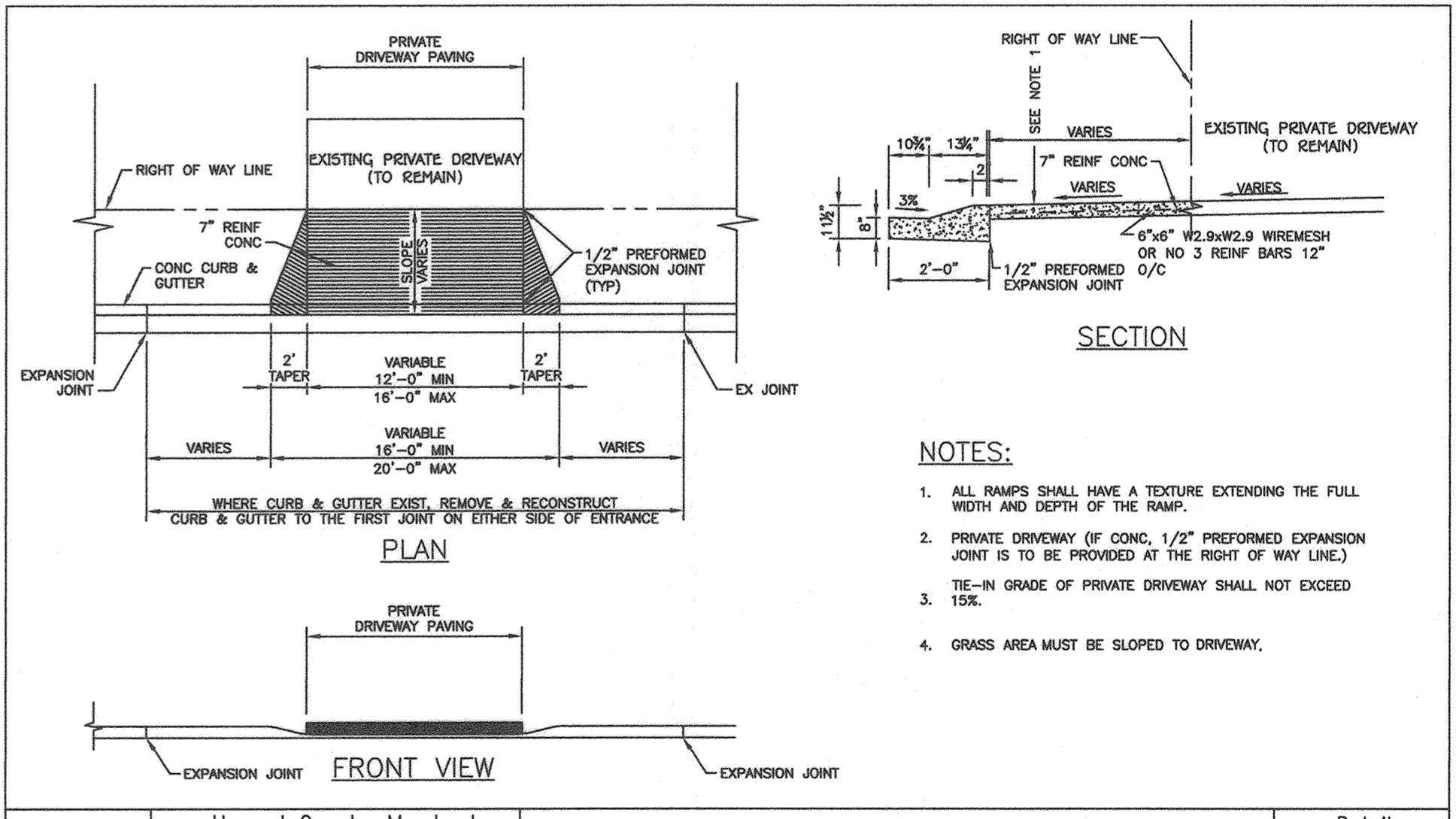
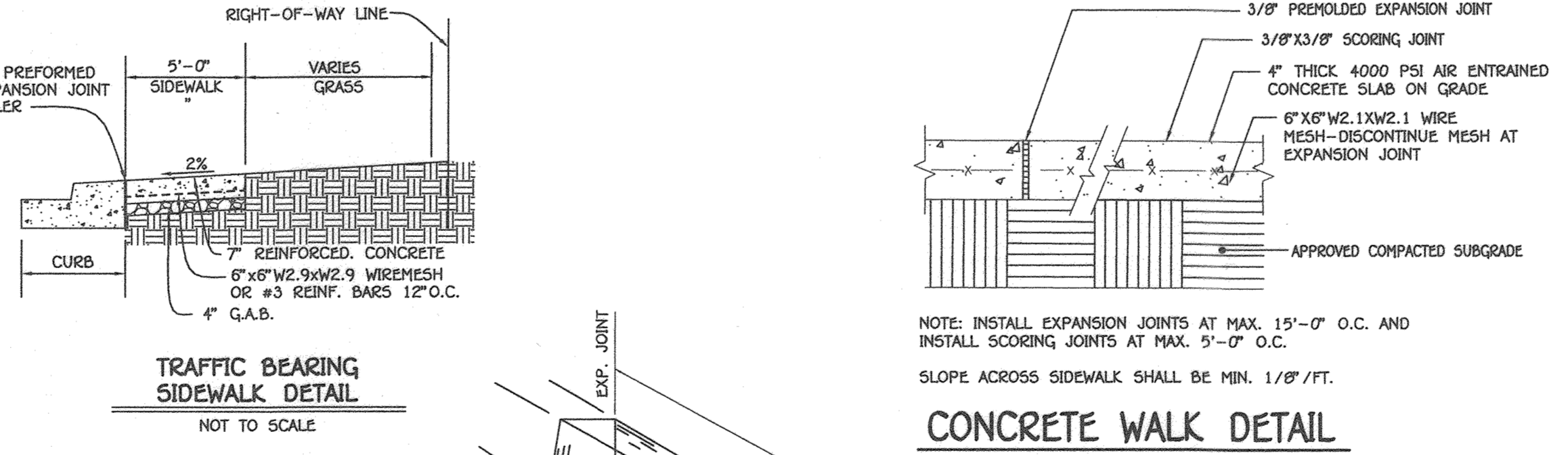
Howard County, Maryland
Department of Public Works

RESIDENTIAL DRIVEWAY ENTRANCE
Modified Combination Curb and Gutter
MODIFICATION 'A'

Detail
R-6.03



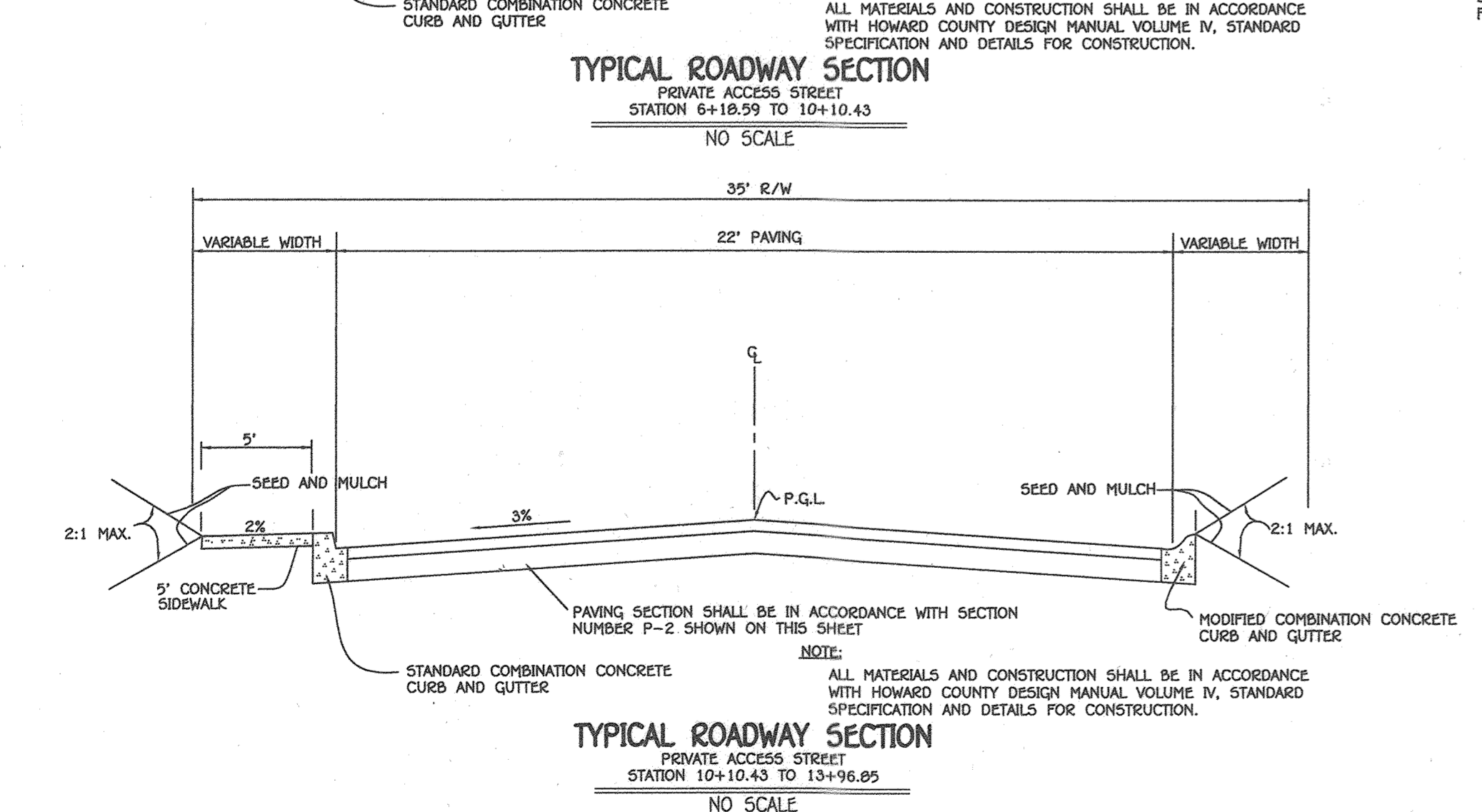
| SECTION NUMBER | ROAD AND STREET CLASSIFICATION | CALIFORNIA BEARING RATIO (CBR) | | | | | | | |
|----------------|--|---|---------|------------------|---------|---------|-----|-----------------------|-----|
| | | 3 TO <5 | 5 TO <7 | >7 | 3 TO <5 | 5 TO <7 | >7 | | |
| P-2 | PARKING DRIVE ARBLES: RESIDENTIAL AND NON-RESIDENTIAL WITH NO MORE THAN 10 HEAVY TRUCKS PER DAY | PAVEMENT MATERIAL (INCHES) | | MIN HMA WITH GAB | | | | HMA WITH CONSTANT GAB | |
| | LOCAL ROADS: ACCESS PLACE, ACCESS STREET | HMA SUPERPAVE FINAL SURFACE 9.5 MM, PG 64-22, LEVEL 1 (ESAL) | | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| | CUL-DE-SACS: RESIDENTIAL | 19.0 MM, PG 64-22, LEVEL 1 (ESAL) | | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| | | GRADED AGGREGATE BASE (GAB) | | 8.0 | 4.0 | 3.0 | 4.0 | 4.0 | 4.0 |



Howard County, Maryland
Department of Public Works

RESIDENTIAL DRIVEWAY ENTRANCE
Modified Combination Curb and Gutter
MODIFICATION 'B'

Detail
R-6.03



Approved: Department Of Planning And Zoning

Chief, Division Of Land Development
Date: 7.14.21

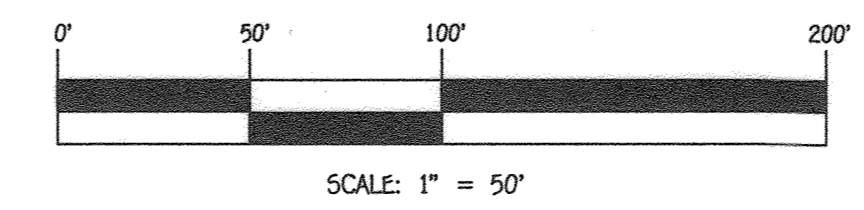
Approved: Howard County Department Of Public Works
Chief, Bureau Of Highways
Date: 07/02/2021

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CENTENAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 461-3995



PROFESSIONAL CERTIFICATION
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Paul John Dorman II
5/23/21



OWNER
HOWARD COUNTY, MARYLAND
3430 COURT HOUSE DRIVE
ELLSWORTH CITY, MD
410-313-4401

DEVELOPER
TERRY'S PLACE DEVELOPMENT, LLC
C/O DAVE WOESSNER
308 MAGOTHY ROAD
SEVERNA PARK, MD 21146
410-461-0837

AS-BUILT CERTIFICATION
I hereby certify, by my seal, that to the best of my knowledge and belief the facilities shown on this plan were constructed as shown on this AS-BUILT plan meet the approved plans and

PAUL GERARD CAVANAGH #12020
DATE: 5/23/21

STORMDRAIN AND ROAD IMPROVEMENT DETAILS
COOKS LANE

PREVIOUS FILE NUMBERS: P5048, F-80-092, & 5-17-006
ZONED: R-ED
TAX MAP NO.: 24 GRID NO.: 18
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: MAY, 2021
AS-BUILT SHEET 7 OF 19

INFILTRATION AND FILTER SYSTEM CONSTRUCTION SPECIFICATIONS

INFILTRATION AND FILTER SYSTEMS EITHER TAKE ADVANTAGE OF EXISTING PERMEABLE SOILS OR CREATE A PERMEABLE MEDIUM SUCH AS SAND FOR WC, AND RE. V. IN SOME INSTANCES WHERE PERMEABILITY IS GREAT, THESE FACILITIES MAY BE USED FOR OP AS WELL. THE MOST COMMON SYSTEMS INCLUDE INFILTRATION TRENCHES, INFILTRATION BASINS, SAND FILTERS, AND ORGANIC FILTERS.

WHEN PROPERLY PLANTED, VEGETATION WILL THRIVE AND ENHANCE THE FUNCTIONING OF THESE SYSTEMS. FOR EXAMPLE, PRE-TREATMENT BUFFERS WILL TRAP SEDIMENTS THAT OFTEN ARE BOUND WITH PHOSPHORUS AND METALS. VEGETATION PLANTED IN THE FACILITY WILL AID IN NUTRIENT UPTAKE AND WATER STORAGE. ADDITIONALLY, PLANT ROOTS WILL PROVIDE AERATION FOR STORMWATER TO PERMEATE SOIL FOR GROUNDWATER RECHARGE. FINALLY, SUCCESSFUL PLANTINGS PROVIDE AESTHETIC VALUE AND WILDLIFE HABITAT MAKING THESE FACILITIES MORE DESIRABLE TO THE PUBLIC.

DESIGN CONSTRAINTS:

- > PLANTING BUFFER STRIPS OF AT LEAST 20 FEET WILL CAUSE SEDIMENTS TO SETTLE OUT BEFORE REACHING THE FACILITY, THEREBY REDUCING THE POSSIBILITY OF CLOGGING.
- > DETERMINE AREAS THAT WILL BE SATURATED WITH WATER AND WATER TABLE DEPTH SO THAT APPROPRIATE PLANTS MAY BE SELECTED (HYDROLOGY WILL BE SIMILAR TO BIORETENTION FACILITIES, SEE FIGURE A.5 AND TABLE A.4 FOR PLANTING MATERIAL GUIDANCE).
- > PLANTS KNOWN TO SEND DOWN DEEP TAPROOTS SHOULD BE AVOIDED IN SYSTEMS WHERE FILTER FABRIC IS USED AS PART OF FACILITY DESIGN.
- > TEST SOIL CONDITIONS TO DETERMINE IF SOIL AMENDMENTS ARE NECESSARY.
- > PLANTS SHALL BE LOCATED SO THAT ACCESS IS POSSIBLE FOR STRUCTURE MAINTENANCE.
- > STABILIZE HEAVY FLOW AREAS WITH EROSION CONTROL MATS OR SOO.
- > TEMPORARILY DIVERT FLOWS FROM SEEDING AREAS UNTIL VEGETATION IS ESTABLISHED.
- > SEE TABLE A.5 FOR ADDITIONAL DESIGN CONSIDERATIONS.

BIO-RETENTION SOIL BED CHARACTERISTICS

THE CHARACTERISTICS OF THE SOIL FOR THE BIORETENTION FACILITY ARE PERHAPS AS IMPORTANT AS THE FACILITY LOCATION, SIZE, AND TREATMENT VOLUME. THE SOIL MUST BE PERMEABLE ENOUGH TO ALLOW RUNOFF TO FILTER THROUGH THE MEDIA, WHILE HAVING CHARACTERISTICS SUITABLE TO PROMOTE AND SUSTAIN A ROBUST VEGETATIVE COVER COOP. IN ADDITION, MUCH OF THE NUTRIENT POLLUTANT UPTAKE (NITROGEN AND PHOSPHORUS) IS ACCOMPLISHED THROUGH ABSORPTION AND MICROBIAL ACTIVITY WITHIN THE SOIL PROFILE. THEREFORE, SOILS MUST BALANCE THEIR CHEMICAL AND PHYSICAL PROPERTIES TO SUPPORT BIOTIC COMMUNITIES ABOVE AND BELOW GROUND.

THE PLANTING SOIL SHOULD BE A SANDY LOAM, LOAMY SAND, LOAM (USDA), OR A LOAM/SAND MIX (SHOULD CONTAIN A MINIMUM 35 TO 60% SAND, BY VOLUME). THE CLAY CONTENT FOR THESE SOILS SHOULD BE LESS THAN 25% BY VOLUME (ENVIRONMENTAL QUALITY RESOURCES (EQ), 1996; ENGINEERING TECHNOLOGY INC. AND BIOHABITATS, INC. (ETAB), 1993). SOILS SHOULD FALL WITHIN THE SM, ML, SC CLASSIFICATIONS OR THE UNIFIED SOIL CLASSIFICATION SYSTEM (USCS). A PERMEABILITY OF AT LEAST 1.0 FEET PER DAY (0.5 FHR) IS REQUIRED (A CONSERVATIVE VALUE OF 0.5 FEET PER DAY IS USED FOR DESIGN). THE SOIL SHOULD BE FREE OF STONES, STUMPS, ROOTS, OR OTHER WOODY MATERIAL OVER 1" IN DIAMETER. BRUSH OR SEEDS FROM NOXIOUS WEEDS (E.G., JOHNSON GRASS, MUGWORT, NUTSEDGE, AND CANADA THISTLE OR OTHER NOXIOUS WEEDS AS SPECIFIED UNDER COMAR 15.08.01.05.) SHOULD NOT BE PRESENT IN THE SOILS. PLACEMENT OF THE PLANTING SOIL SHOULD BE IN 12 TO 18 LIFTS THAT ARE LOOSELY COMPACTED (TAMPED LIGHTLY WITH A BACKHOE BUCKET OR TRAVERSED BY DOZER TRACKS). THE SPECIFIC CHARACTERISTICS ARE PRESENTED IN TABLE A.3.

TABLE A.3 PLANTING SOIL CHARACTERISTICS

| PARAMETER | VALUE |
|-------------------------------|---------------------------|
| PH RANGE | 5.2 TO 7.00 |
| ORGANIC MATTER | 1.5 TO 4.0% (BY WEIGHT) |
| MAGNESIUM | 35 LBS. PER ACRE, MINIMUM |
| PHOSPHORUS (PHOSPHATE - P205) | 75 LBS. PER ACRE, MINIMUM |
| POTASSIUM (POTASH - K2O) | 85 LBS. PER ACRE, MINIMUM |
| SOLUBLE SALTS | 500 PPM |
| CLAY | 10 TO 25 % |
| SILT | 30 TO 55 % |
| SAND | 35 TO 60% |

MULCH LAYER

THE MULCH LAYER PLAYS AN IMPORTANT ROLE IN THE PERFORMANCE OF THE BIORETENTION SYSTEM. THE MULCH LAYER HELPS MAINTAIN SOIL MOISTURE AND AVOIDS SURFACE SEALING, WHICH REDUCES PERMEABILITY. MULCH HELPS PREVENT EROSION, AND PROVIDES A MICROENVIRONMENT SUITABLE FOR SOIL BIOTA AT THE MULCH/SOIL INTERFACE. IT ALSO SERVES AS A PRETREATMENT LAYER, TRAPPING THE FINER SEDIMENTS, WHICH REMAIN SUSPENDED AFTER THE PRIMARY PRETREATMENT.

THE MULCH LAYER SHOULD BE STANDARD LANDSCAPE STYLE, SINGLE OR DOUBLE SHREDDED HARDWOOD MULCH OR CHIPS. THE MULCH LAYER SHOULD BE WELL AGED (STOCKPILED OR STORED FOR AT LEAST 12 MONTHS), UNIFORM IN COLOR, AND FREE OF OTHER MATERIALS, SUCH AS WEED SEEDS, SOIL, ROOTS, ETC. THE MULCH SHOULD BE APPLIED TO A MAXIMUM DEPTH OF THREE INCHES. GRASS CLIPPINGS SHOULD NOT BE USED AS A MULCH MATERIAL.

PLANTING GUIDANCE

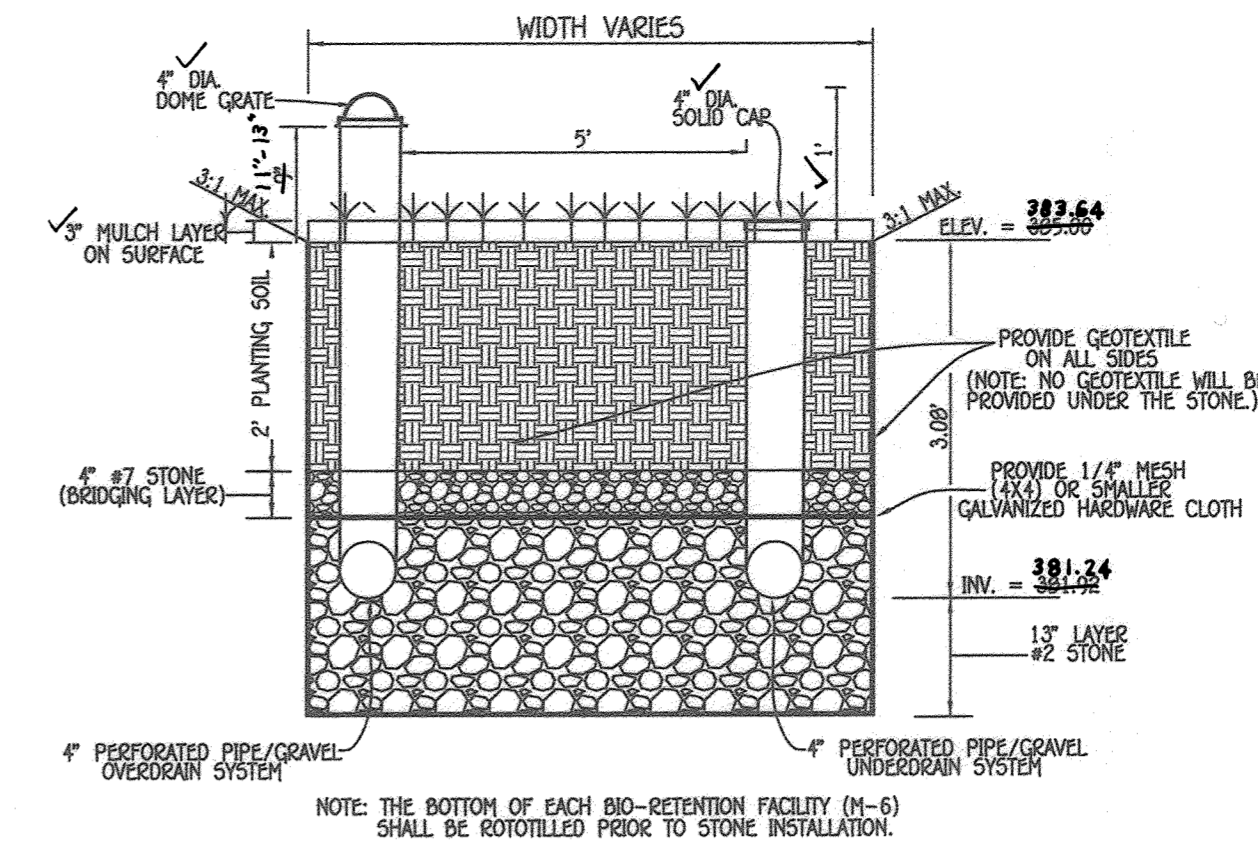
PLANT MATERIAL SELECTION SHOULD BE BASED ON THE GOAL OF SIMULATING A TERRESTRIAL FORESTED COMMUNITY OF NATIVE SPECIES. BIORETENTION SIMULATES AN UPLAND-SPECIES ECOSYSTEM. THE COMMUNITY SHOULD BE DOMINATED BY TREES, BUT HAVE A DISTINCT COMMUNITY OF UNDERSTORY TREES, SHRUBS AND HERBACEOUS MATERIALS. BY CREATING A DIVERSE, DENSE PLANT COVER, A BIORETENTION FACILITY WILL BE ABLE TO TREAT STORMWATER RUNOFF AND WITHSTAND URBAN STRESSES FROM INSECTS, DISEASE, DROUGHT, TEMPERATURE, WIND, AND EXPOSURE.

THE PROPER SELECTION AND INSTALLATION OF PLANT MATERIALS IS KEY TO A SUCCESSFUL SYSTEM. THERE ARE ESSENTIALLY THREE ZONES WITHIN A BIORETENTION FACILITY (FIGURE A.5). THE LOWEST ELEVATION SUPPORTS PLANT SPECIES ADAPTED TO STANDING AND FLUCTUATING WATER LEVELS. THE MIDDLE ELEVATION SUPPORTS PLANTS THAT LIKE DRIER SOIL CONDITIONS, BUT CAN STILL TOLERATE OCCASIONAL INUNDATION BY WATER. THE OUTER EDGE

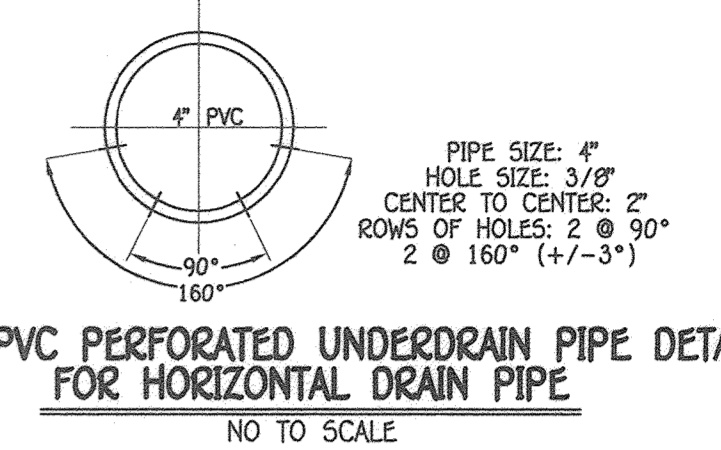
IS THE HIGHEST ELEVATION AND GENERALLY SUPPORTS PLANTS ADAPTED TO DRIER CONDITIONS. A SAMPLE OF APPROPRIATE PLANT MATERIALS FOR BIORETENTION FACILITIES ARE INCLUDED IN TABLE A.4. THE LAYOUT OF PLANT MATERIAL SHOULD BE FLEXIBLE, BUT SHOULD FOLLOW THE GENERAL PRINCIPLES DESCRIBED IN TABLE A.5. THE OBJECTIVE IS TO HAVE A SYSTEM, WHICH RESEMBLES A RANDOM, AND NATURAL PLANT LAYOUT, WHILE MAINTAINING OPTIMAL CONDITIONS FOR PLANT ESTABLISHMENT AND GROWTH. FOR A MORE EXTENSIVE BIORETENTION PLAN, CONSULT ETAB, 1993 OR CLAYTOR AND SCHUELER, 1997.

OPERATION AND MAINTENANCE SCHEDULE FOR BIO-RETENTION AREA (M-6)

1. ANNUAL MAINTENANCE OF PLANT MATERIAL, MULCH LAYER AND SOIL LAYER IS REQUIRED. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING.
2. SCHEDULE OF PLANT INSPECTION WILL BE TWICE A YEAR IN SPRING AND FALL. THIS INSPECTION WILL INCLUDE REMOVAL OF DEAD AND DISEASED VEGETATION CONSIDER BEYOND TREATMENT. TREATMENT OF ALL DISEASED TREES AND SHRUBS AND REPLACEMENT OF ALL DEFICIENT STAKES AND WIRES.
3. MULCH SHALL BE INSPECTED EACH SPRING. REMOVE PREVIOUS MULCH LAYER BEFORE APPLYING NEW LAYER ONCE EVERY 2 TO 3 YEARS.
4. SOIL EROSION TO BE ADDRESSED ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER HEAVY STORM EVENTS.



TYPICAL SECTION BIO-RETENTION FACILITY (M-6)
NO SCALE

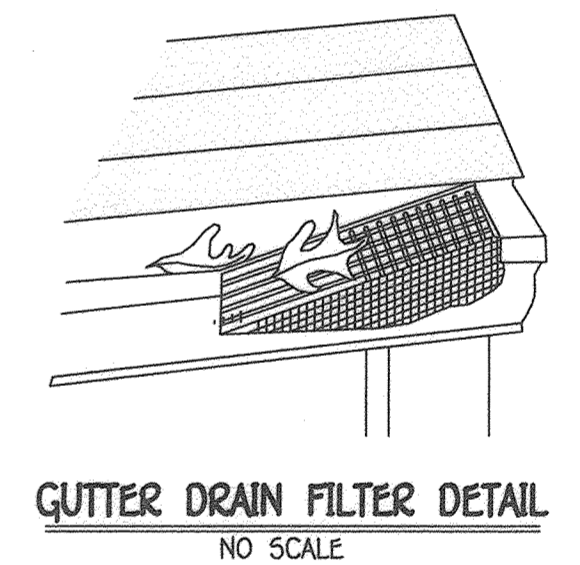


SCH40 PVC PERFORMED UNDERDRAIN PIPE DETAIL FOR HORIZONTAL DRAIN PIPE
NO TO SCALE

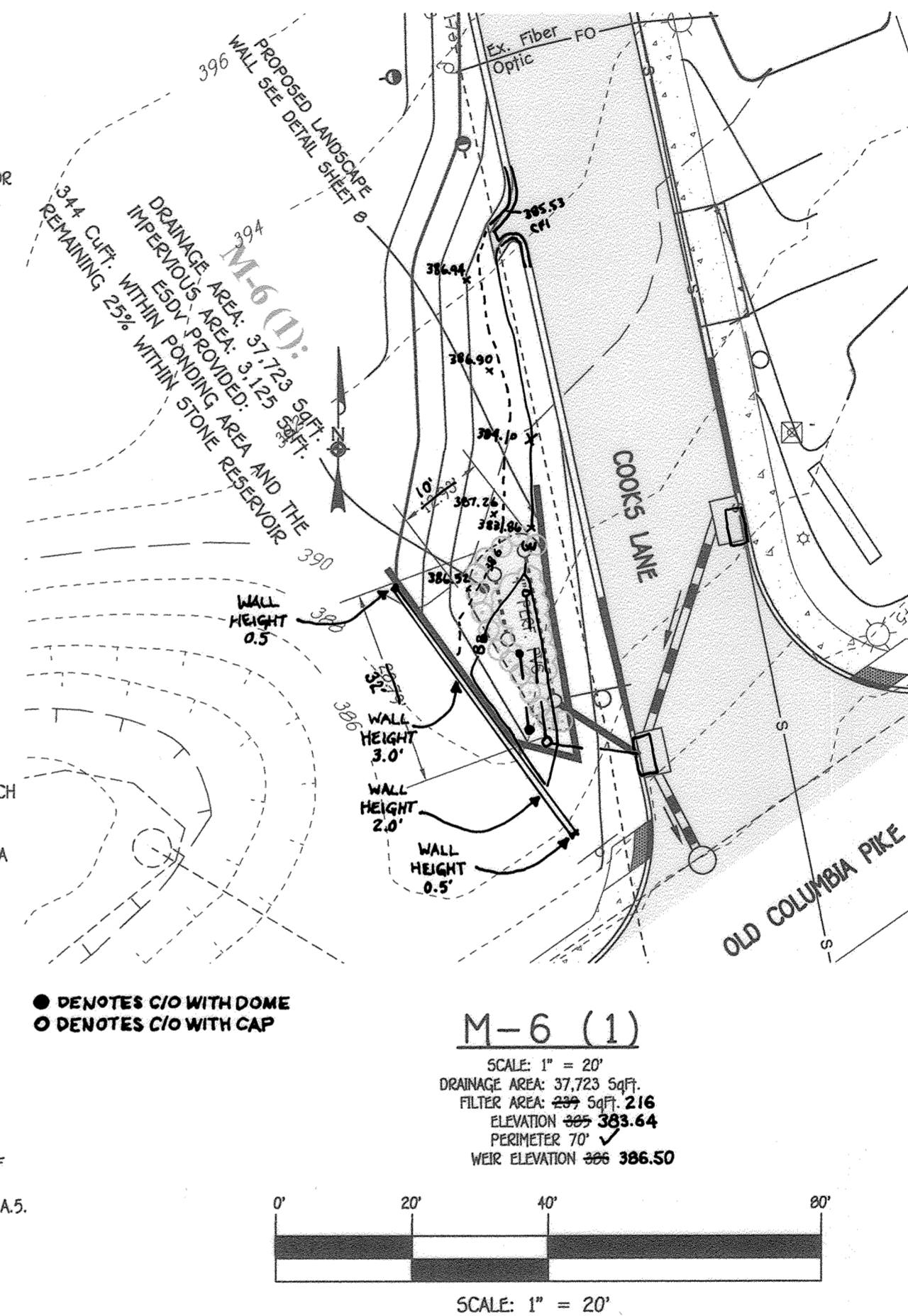
| DRAINAGE AREA F-6 (1) BIORETENTION PLANT MATERIAL | | |
|---|---------|-----------------------|
| QUANTITY | NAME | MAXIMUM SPACING (FT.) |
| 33 (99 sq ft.) | GRASSES | 36" o.c. |
| 15 | SHRUBS | 36"-40" o.c. |

- SHRUBS**
- BARBERRY
 - SPICEBUSH
 - ARBORWOOD
 - WINTERBERRY
 - WILDBERRY
 - WITCH HAZEL
 - BUTTONBRUSH
 - BUCKEYE
 - BOTTLEBRUSH
 - BUCKEYE
- ANY OF THE SHRUBS LISTED MAY BE USED

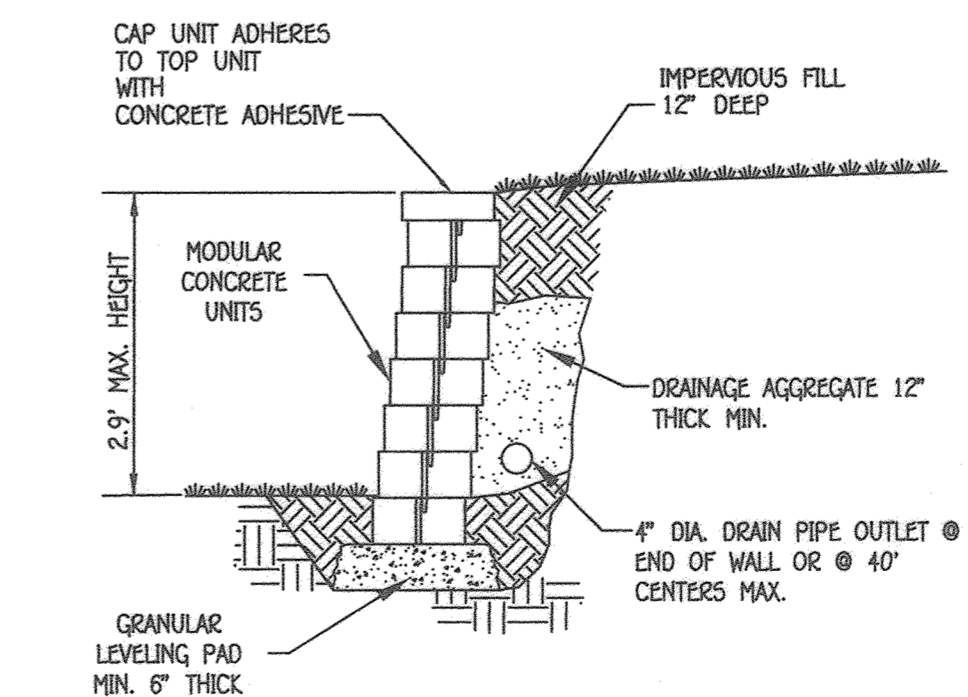
- GRASS**
- SWITCHGRASS
 - HEAVY METAL SWITCHGRASS
- ANY OF THE GRASS LISTED MAY BE USED



GUTTER DRAIN FILTER DETAIL
NO SCALE



M-6 (1)
SCALE: 1" = 20'
DRAINAGE AREA: 37,723 SQ FT
FILTER AREA: 699 SQ FT
ELEVATION: 283.64
PERIMETER: 70'
WEIR ELEVATION: 386.50



CONCRETE BLOCK LANDSCAPE WALL DETAIL
NO SCALE

AS-BUILT CERTIFICATION

I hereby certify, by my seal, that to the best of my knowledge and belief the facilities shown on the plan was constructed as shown on this "AS-BUILT" plan meet the approved plans and specifications.

Paul Gerard Cavanaugh
PAUL GERARD CAVANAUGH #27020

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/21.

Frank John D'Amico II
FRANK JOHN D'AMICO II
DATE: 7/11/21

Approved: Department Of Planning And Zoning

Chief, Division Of Land Development
John P. ...
Date: 7.14.21

Approved: Howard County Department Of Public Works

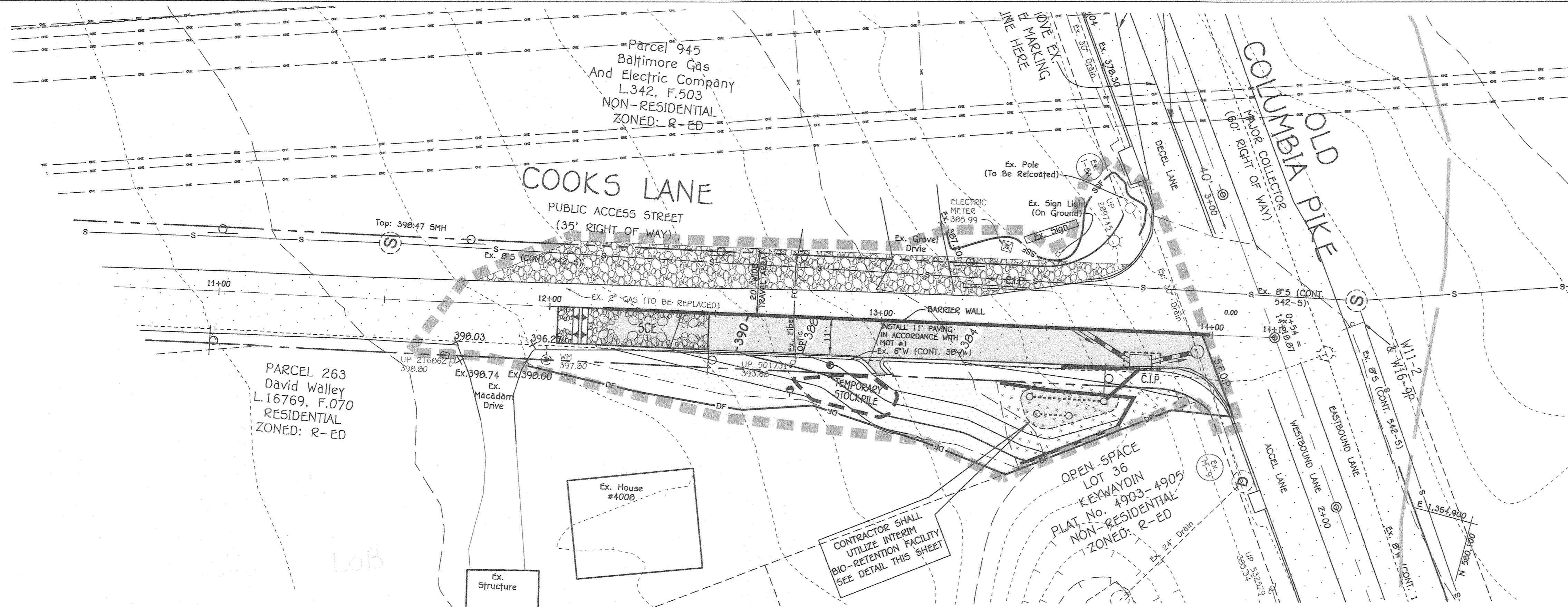
Chief, Bureau Of Highways
...
Date: 07/02/2021

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 461-2855

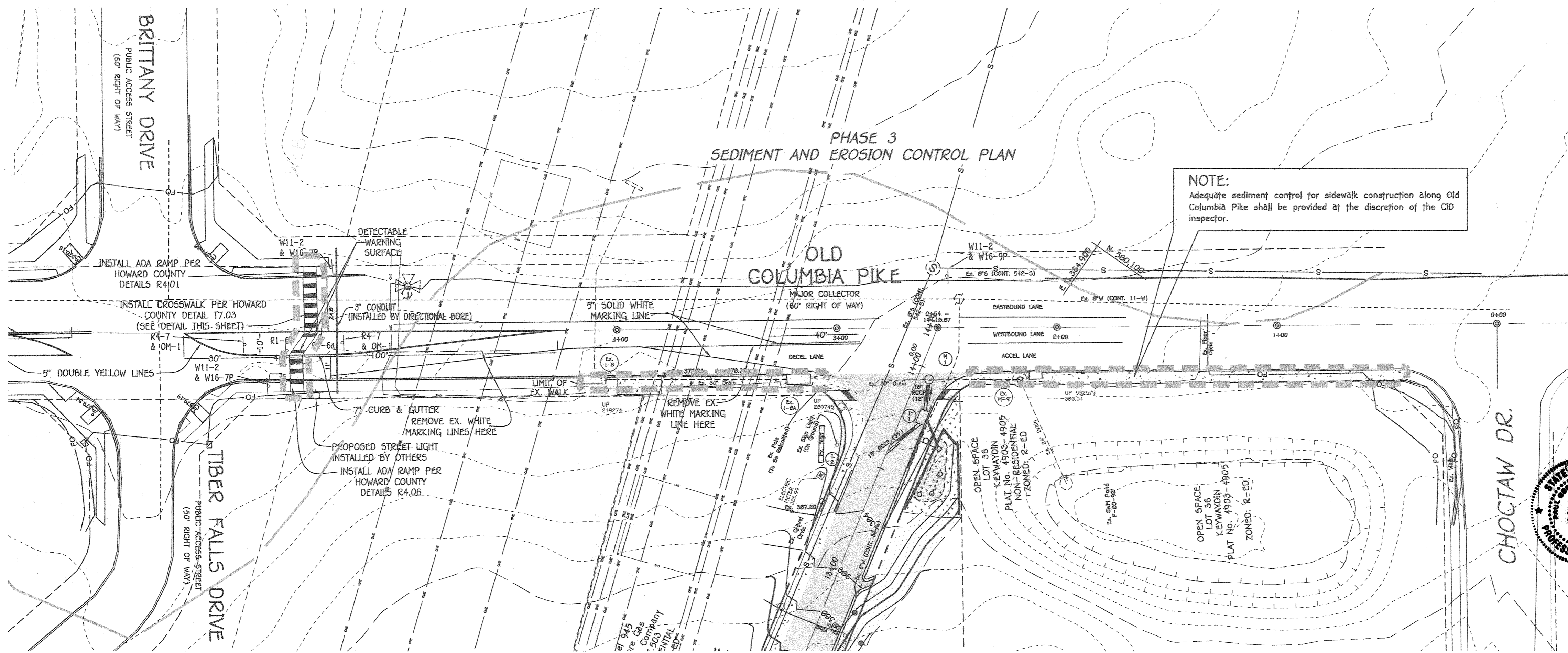
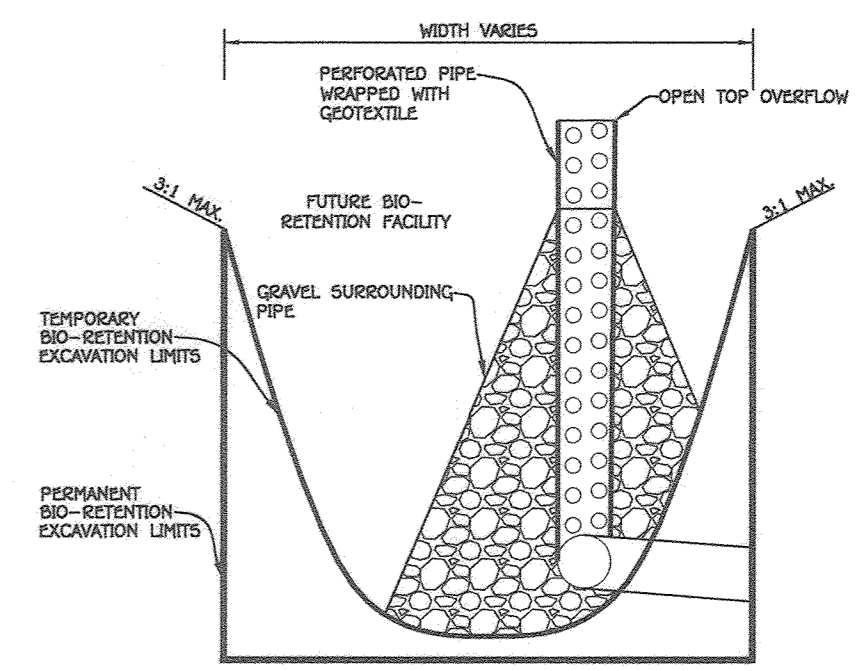
STORMWATER MANAGEMENT DETAILS

COOKS LANE

PREVIOUS FILE NUMBERS: P5048, F-80-092, & 5-17-006
ZONED: R-ED
TAX MAP NO.: 24 GRID NO.: 18
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: MAY, 2021
AS-BUILT SHEET 8 OF 19



PHASE 1
SEDIMENT AND EROSION CONTROL PLAN



AS-BUILT CERTIFICATION
Note: There is no "AS-BUILT" information provided on this sheet.

STATE OF MARYLAND
PROFESSIONAL ENGINEER
PAUL GERARD CHAMBERS #21020
1/28/24

PHASES 1 & 3
SEDIMENT AND EROSION CONTROL PLAN
COOKS LANE

PREVIOUS FILE NUMBERS: P5048, F-80-092, & 5-17-006
ZONED: R-ED
TAX MAP NO.: 24 GRID NO.: 18
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: MAY, 2021

PROFESSIONAL CERTIFICATE
I Herby Certify That This Plan For Erosion And Sediment Control Represents A Practical And Workable Plan Based On My Personal Knowledge Of The Site Conditions And That It Was Prepared In Accordance With The Requirements Of The Howard Soil Conservation District.

Paul John Manalwan II 7/1/21
Signature Date

DEVELOPER'S CERTIFICATE
"I Herby Certify That All Development And Construction Will Be Done According To This Plan Of Development And Plan For Erosion And Sediment Control And That All Responsible Personnel Involved In The Construction Project Will Have A Certificate Of Attendance At A Department Of Natural Resources Approved Training Program For The Control Of Sediment And Erosion Before Beginning The Project. I Also Authorize Periodic On-Site Inspection By The Howard Soil Conservation District Or Their Authorized Agents, As Are Deemed Necessary."

David Walley 6/20/2021
Signature Date

Approved: This Development Is Approved For Erosion And Sediment Control By The Howard Soil Conservation District.

Alaynda Butcher 07/01/21
Signature Date

Approved: Department Of Planning And Zoning

[Signature] 9/14/21
Signature Date

Approved: Howard County Department Of Public Works

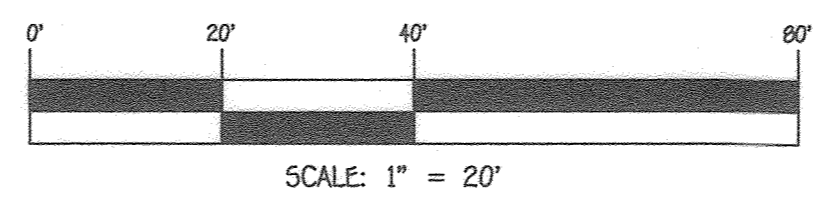
[Signature] 07/02/2021
Signature Date

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21142
(410) 461-2995



PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/21.

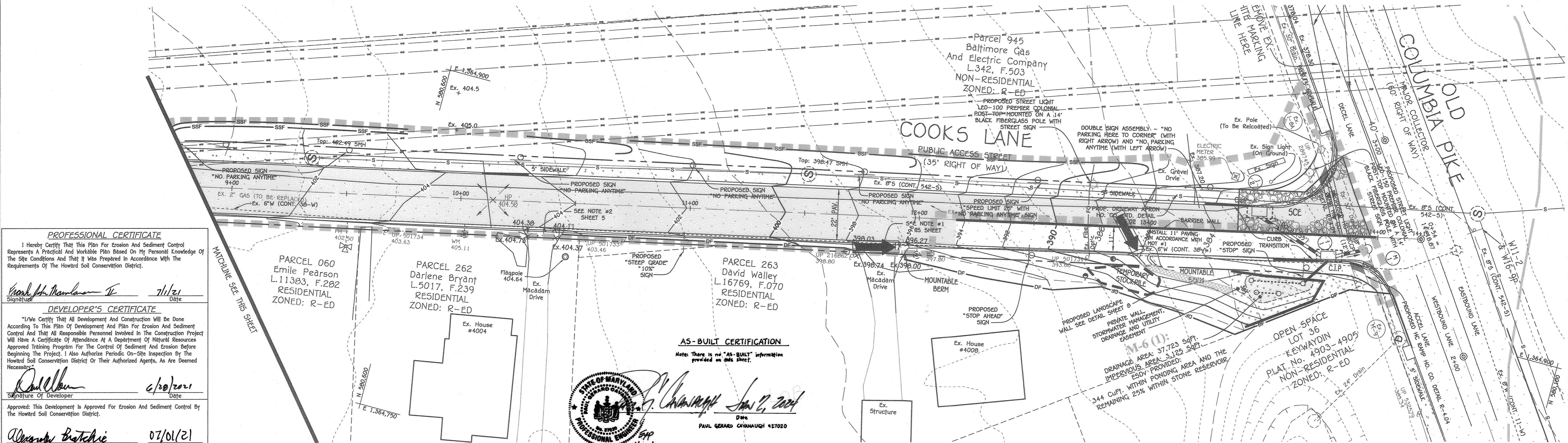
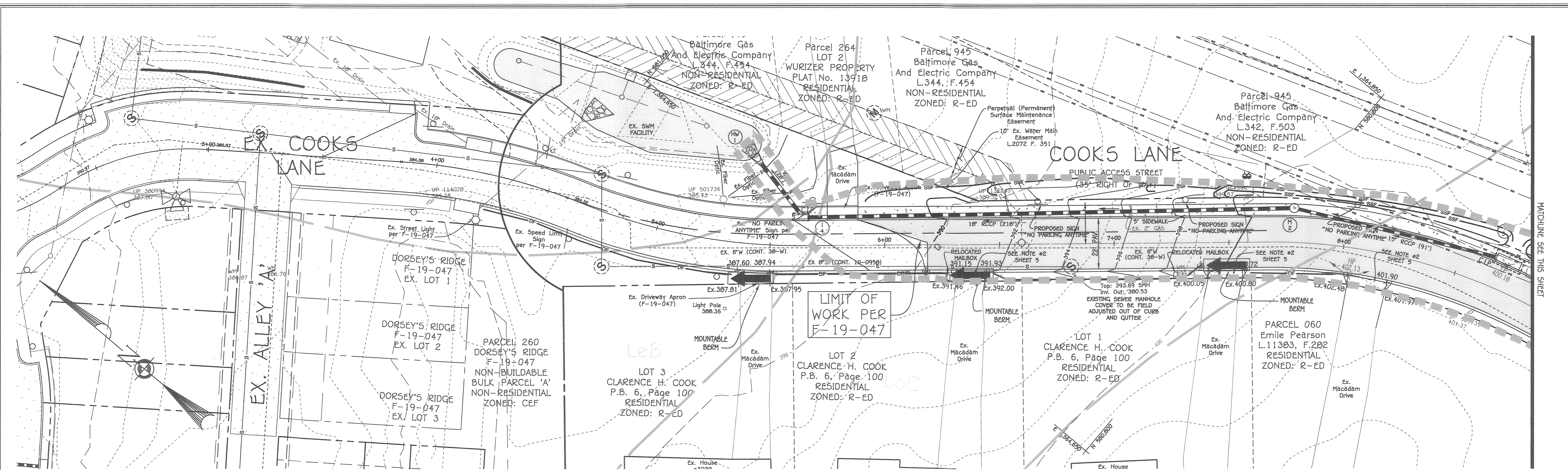
Paul John Manalwan II 7/1/21
FRANK MANALWAN II



OWNER
HOWARD COUNTY, MARYLAND
3430 COURT HOUSE DRIVE
ELLCOTT CITY, MD
410-313-4401

DEVELOPER
TERRY'S PLACE DEVELOPMENT, LLC
C/O DAVE WOODSNER
308 HACOOTHY ROAD
SEVERNA PARK, MD 21146
410-461-0837

THERE IS NO AS-BUILT INFORMATION ON THIS SHEET SHEET 9 OF 19



PROFESSIONAL CERTIFICATE
 I hereby certify that this Plan For Erosion And Sediment Control Represents A Practical And Workable Plan Based On My Personal Knowledge Of The Site Conditions And That It Was Prepared In Accordance With The Requirements Of The Howard Soil Conservation District.
 Signature: *Mark J. Haveland II* Date: 7/1/21

DEVELOPER'S CERTIFICATE
 I hereby certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a certificate of attendance at a department of natural resources approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.
 Signature: *Dave Woessner* Date: 6/28/2021

Approved: This Development Is Approved For Erosion And Sediment Control By The Howard Soil Conservation District.
 Signature: *Wesley Brothie* Date: 07/01/21
 Chief, Division Of Land Development

Approved: Department Of Planning And Zoning
 Signature: *John E. ...* Date: 7/11/21
 Chief, Development Engineering Division

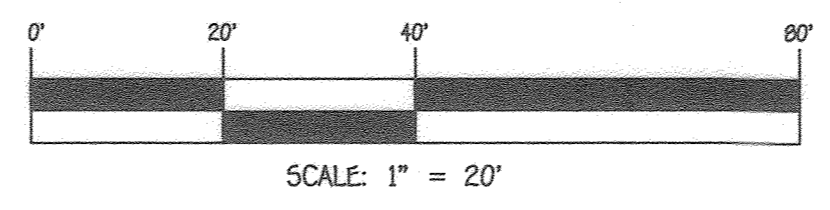
Approved: Howard County Department Of Public Works
 Signature: *James ...* Date: 07/02/2021
 Chief, Bureau Of Highways

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2995



PROFESSIONAL CERTIFICATION
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 Signature: *Mark J. Haveland II* Date: 7/1/21

AS-BUILT CERTIFICATION
 Note: There is no "AS-BUILT" information provided on this sheet.
 Signature: *Paul Gerard Cavanaugh* Date: Jan 2, 2021
 PAUL GERARD CAVANAUGH #27020



OWNER
 HOWARD COUNTY, MARYLAND
 3430 COURT HOUSE DRIVE
 ELLICOTT CITY, MD
 410-313-4401

DEVELOPER
 TERRY'S PLACE DEVELOPMENT, LLC
 C/O DAVE WOESSNER
 308 MAGDOY ROAD
 SEVERNA PARK, MD 21146
 410-461-0937

**PHASE 2
 SEDIMENT AND EROSION CONTROL PLAN
 COOKS LANE**

PREVIOUS FILE NUMBERS: PS048, F-80-092, & 5-17-006
 ZONED: R-ED
 TAX MAP NO.: 24 GRID NO.: 18
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: MAY, 2021

SOIL PREPARATION, TOPSOILING AND SOIL AMENDMENTS (B-4-2)

- A. SOIL PREPARATION
1. TEMPORARY STABILIZATION
2. PERMANENT STABILIZATION

- B. TOPSOILING
1. TOPSOIL IS PLACED OVER PREPARED SUBSOIL...

- C. SOIL AMENDMENTS (FERTILIZER & LIME SPECIFICATIONS)
1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATES...

PERMANENT SEEDING NOTES (B-4-5)

- A. SEED MIXTURES
1. GENERAL USE
2. TURFGRASS MIXTURES
3. TURFGRASS MIXTURES

PERMANENT SEEDING SUMMARY table with columns for HARDNESS ZONE, SEED MIXTURE, FERTILIZER RATE, LIME RATE, and LINE RATE.

B. 50D: TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER).

- 1. GENERAL SPECIFICATIONS
2. SOIL INSTALLATION
3. SOIL MAINTENANCE

STANDARD STABILIZATION NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN...

B-4-4 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA

- 1. The stockpile location and all related sediment control practices must be clearly indicated on the erosion and sediment control plan.
2. The footprint of the stockpile must be sized to accommodate the anticipated volume of material...

B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING & MULCHING

DEFINITION: THE APPLICATION OF SEED AND MULCH TO ESTABLISH VEGETATIVE COVER.

PURPOSE: TO PROTECT DISTURBED SOILS FROM EROSION DURING AND AT THE END OF CONSTRUCTION.

CONDITIONS WHERE PRACTICE APPLIES: TO THE SURFACE OF ALL PERIMETER SLOPES, SLOPES, AND ANY DISTURBED AREA NOT UNDER ACTIVE GRADING.

- A. SEEDING
1. SPECIFICATIONS
2. APPLICATION

- B. MULCHING
1. MULCH MATERIALS (IN ORDER OF PREFERENCE)
2. APPLICATION

HOWARD SOIL CONSERVATION DISTRICT (HSCD)

STANDARD SEDIMENT CONTROL NOTES

- 1. A pre-construction meeting must occur with the Howard County Department of Public Works, Construction Inspection Division (CID), 410-313-1895 after the future LOO and protected areas are marked clearly in the field.
2. Upon completion of the installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading.

TEMPORARY SEEDING NOTES (B-4-4)

DEFINITION: TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS.

PURPOSE: TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURBED SOILS.

CONDITIONS WHERE PRACTICE APPLIES: EXPOSED SOILS WHICH REQUIRE COVER AS A RESULT OF A PROJECT OF 6 MONTHS OR LESS.

- 1. SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.1 FOR THE APPROPRIATE PLANT HARDNESS ZONE (FROM FIGURE B.3), AND ENTER THEM IN THE TEMPORARY SEEDING SUMMARY BELOW ALONG WITH APPLICATION RATES, SEEDING DATES AND SEEDING DEPTHS.

TEMPORARY SEEDING SUMMARY table with columns for SPECIES, APPLICATION RATE, SEEDING DATES, SEEDING DEPTHS, FERTILIZER RATE, and LIME RATE.

DUST CONTROL

DEFINITION: CONTROLLING DUST BLOWING AND MOVEMENT ON CONSTRUCTION SITES AND ROADS.

PURPOSE: TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON AND OFF-SITE DAMAGE, HEALTH HAZARDS AND IMPROVE TRAFFIC SAFETY.

CONDITIONS WHERE PRACTICE APPLIES: THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT.

PERMANENT METHODS: 1. MULCHES - USE STANDARDS FOR VEGETATIVE STABILIZATION WITH MULCHES ONLY. MULCH SHOULD BE COMPACTED OR TACKED TO PREVENT BLOWING.

- 2. VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER.
3. TILLAGE - TO ROUGHEN SURFACE AND BRING CLOSE TO THE SURFACE. THIS IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS.

TABLE B.1 TEMPORARY SEEDING FOR SITE STABILIZATION

Table with columns for PLANT SPECS, SEEDING RATE (LB./AC. and LB./1000 FT.2), SEEDING DEPTH (INCHES), and RECOMMENDED SEEDING DATES BY PLANT HARDNESS ZONE (5b AND 6a, 6b, 7a AND 7b).

NOTES: 1. SEEDING RATES FOR THE WARM-SEASON GRASSES ARE IN POUNDS OF PURE LIME SEED (PLS). ACTUAL PLANTING RATES SHALL BE ADJUSTED TO REFLECT PERCENT SEED GERMINATION AND PURITY, AS TESTED.

PROFESSIONAL CERTIFICATE

I hereby certify that this Plan for Erosion and Sediment Control Represents A Practical And Workable Plan Based On My Personal Knowledge Of The Site Conditions And That It Was Prepared In Accordance With The Requirements Of The Howard Soil Conservation District.

Signature of Professional Engineer: Frank J. Manalunga II, Date: 5/23/21

DEVELOPER'S CERTIFICATE

I/We Certify That All Development And Construction Will Be Done According To This Plan Of Development And Plan For Erosion And Sediment Control And That All Responsible Personnel Involved In The Construction Project Will Have A Certificate Of Attendance At A Department Of Natural Resources Approved Training Program For The Control Of Sediment And Erosion Before Beginning The Project.

Signature of Developer: David M. Alan, Date: 5/17/2021

Approved: Department Of Planning And Zoning, Howard Soil Conservation District.

Signature of Professional Engineer: Alexander Bratchko, Date: 05/27/21

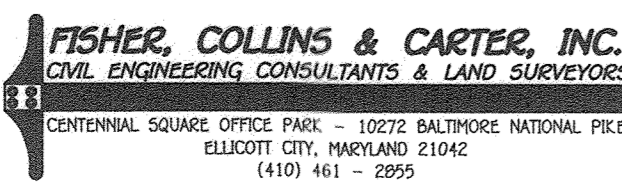
Approved: Department Of Planning And Zoning, Howard Soil Conservation District.

Signature of Chief, Division Of Land Development: [Signature], Date: 5/11/21

Signature of Chief, Development Engineering Division: [Signature], Date: 7-14-21

Approved: Howard County Department Of Public Works

Signature of Chief, Bureau Of Highways: [Signature], Date: 07/02/2021



PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/21.

Signature of Professional Engineer: Frank J. Manalunga II, Date: 5/23/21

OWNER

HOWARD COUNTY, MARYLAND
3430 COURT HOUSE DRIVE
ELLCOTT CITY, MD
4110-313-4401

DEVELOPER

TERRY'S PLACE DEVELOPMENT, LLC
C/O DAVE WOESSNER
3010 HALLS CREEK ROAD
SEVENEEN PARK, MD 21146
410-461-0837

SCALE: 1" = 20'

AS-BUILT CERTIFICATION

Note: There is no "AS-BUILT" information provided on this sheet.

Signature of Professional Engineer: Paul Gerard Cavanaugh, Date: 5/27/2021



SEDIMENT AND EROSION CONTROL NOTES AND DETAILS

COOKS LANE

PREVIOUS FILE NUMBERS: P5048, F-80-092, & 5-17-006

ZONED: R-ED

TAX MAP NO.: 24 GRID NO.: 18

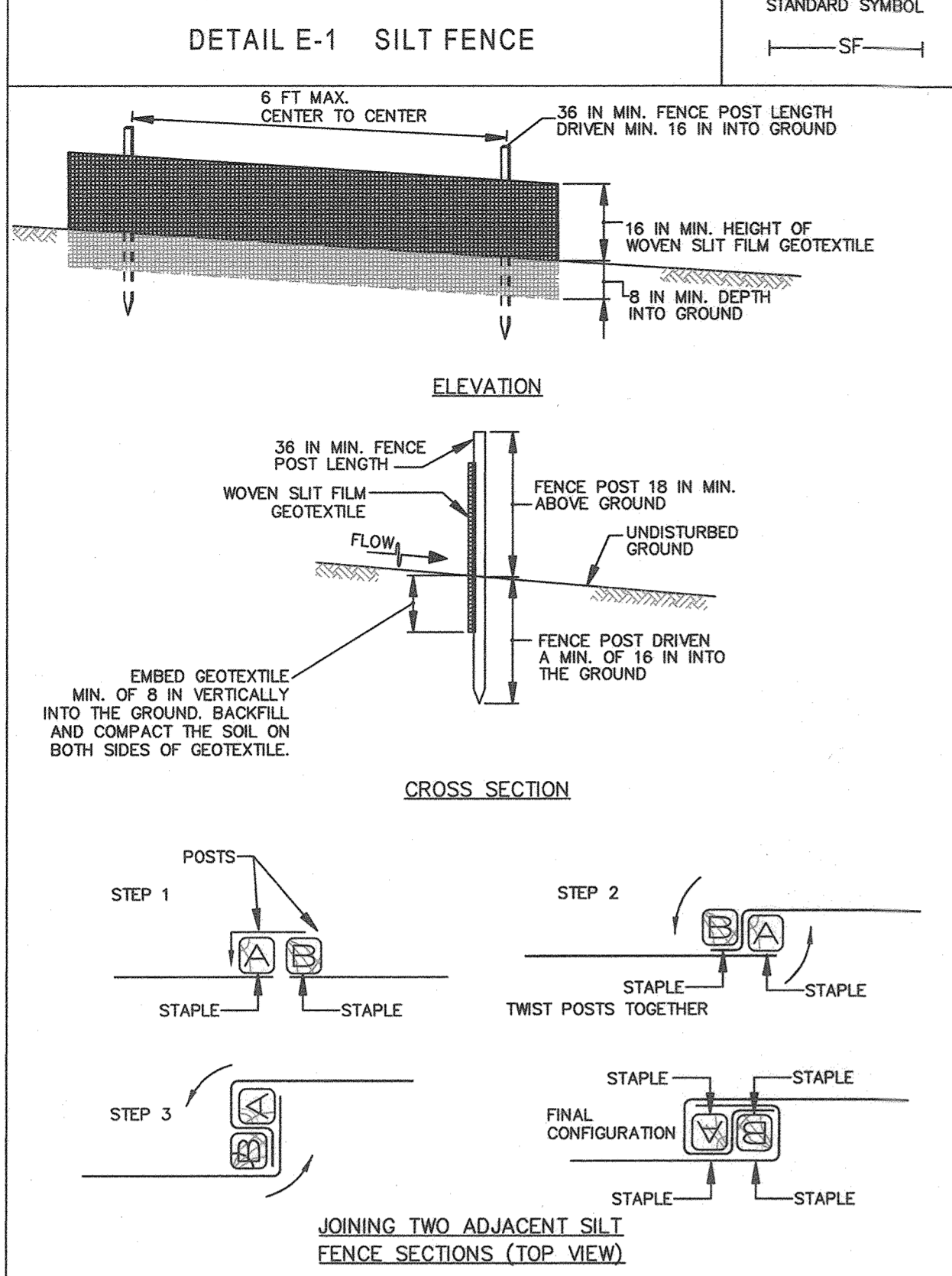
SECOND ELECTION DISTRICT: HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN DATE: MAY, 2021

SHEET 11 OF 19

THERE IS NO AS-BUILT INFORMATION ON THIS SHEET

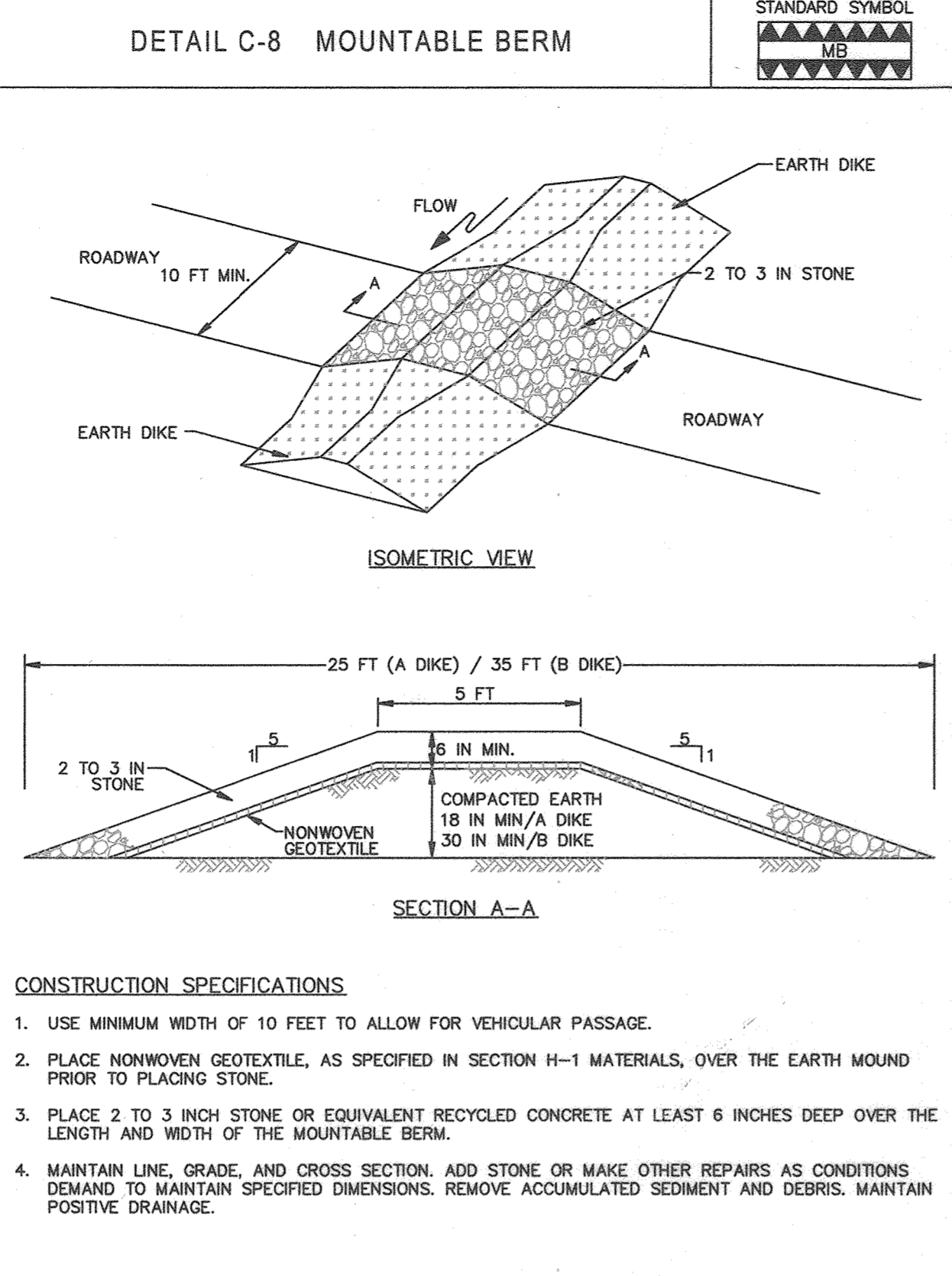
1:201515000:Engineering/Dwg/Details - Cooks Lane/Plan Set/SEC Notes and Details.dwg, C-11, SEC DETAILS, 5/15/2021 1:32:47 PM, 11



CONSTRUCTION SPECIFICATIONS

- USE WOOD POSTS 1 1/2 x 1 1/2 x 1/8 INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD, AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "H" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
- USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
- USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.
- PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
- EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
- WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
- EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN, IF UNDERMINING OCCURS, REINSTALL FENCE.

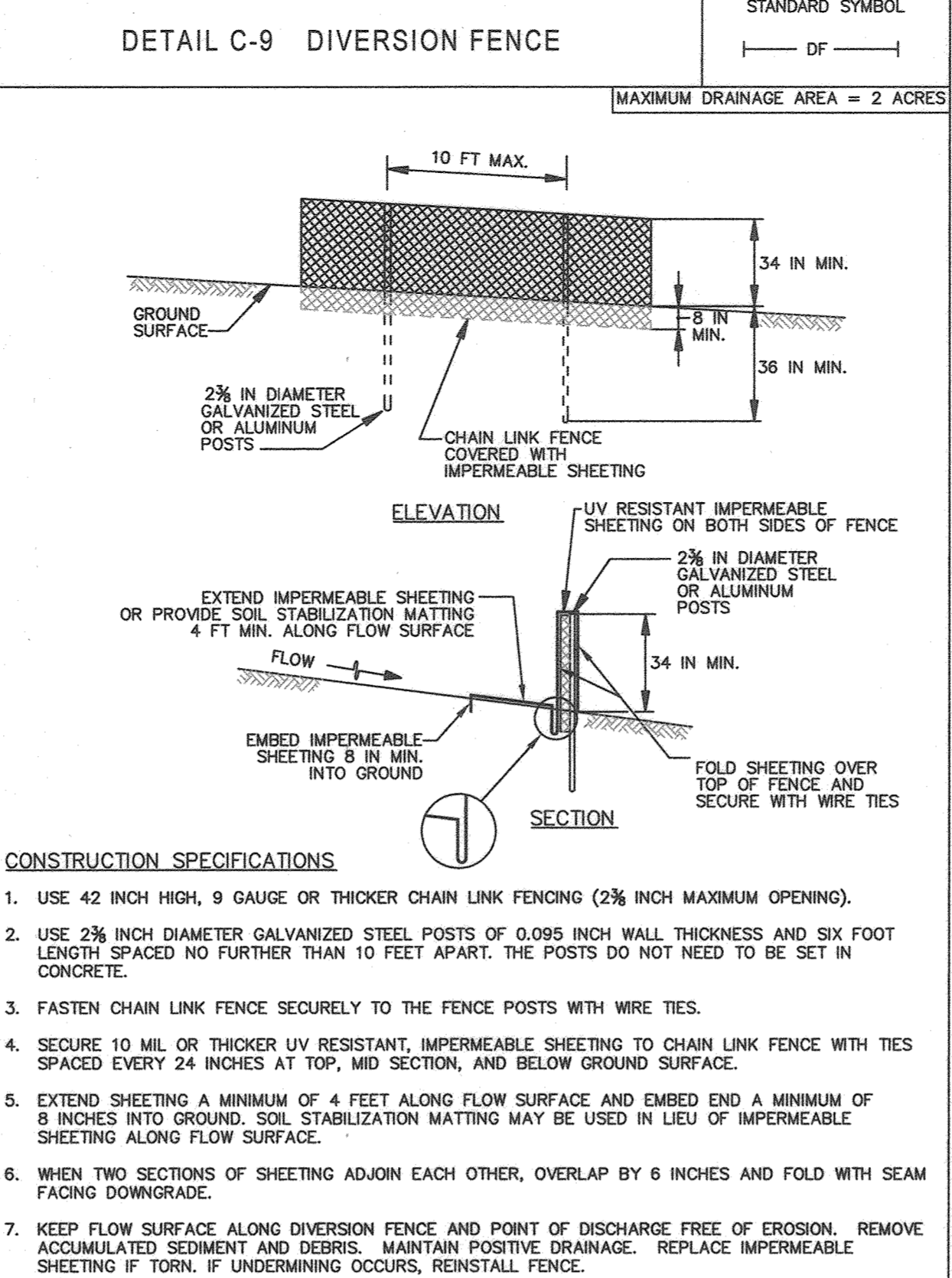
| MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL | | |
|---|------|---|
| U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE | 2011 | MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION |



CONSTRUCTION SPECIFICATIONS

- USE MINIMUM WIDTH OF 10 FEET TO ALLOW FOR VEHICULAR PASSAGE.
- PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS, OVER THE EARTH MOUND PRIOR TO PLACING STONE.
- PLACE 2 TO 3 INCH STONE OR EQUIVALENT RECYCLED CONCRETE AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE MOUNTABLE BERM.
- MAINTAIN LINE, GRADE, AND CROSS SECTION. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN SPECIFIED DIMENSIONS. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. MAINTAIN POSITIVE DRAINAGE.

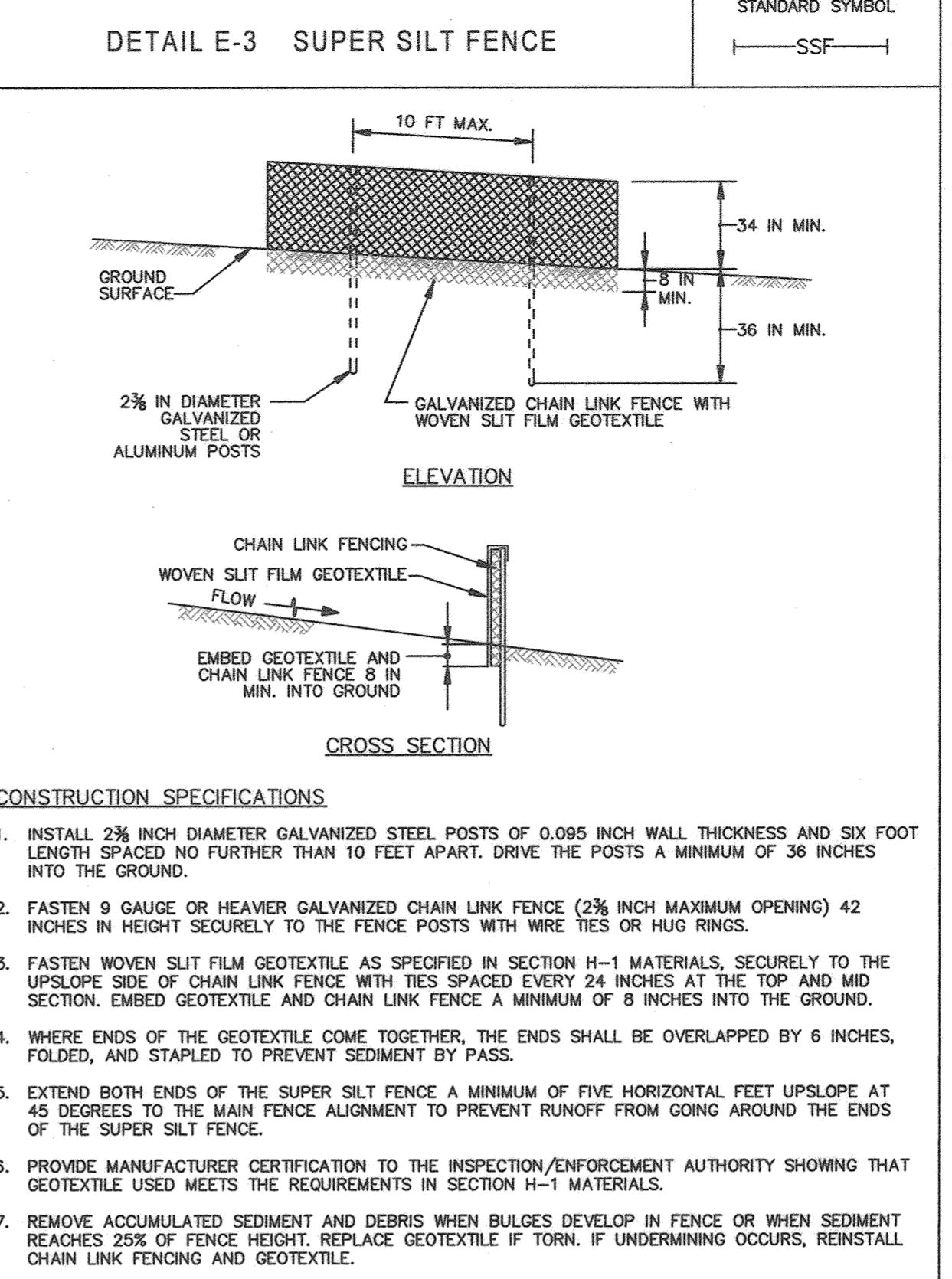
| MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL | | |
|---|------|---|
| U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE | 2011 | MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION |



CONSTRUCTION SPECIFICATIONS

- USE 42 INCH HIGH, 9 GAUGE OR THICKER CHAIN LINK FENCING (2 3/8 INCH MAXIMUM OPENING).
- USE 2 3/8 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. THE POSTS DO NOT NEED TO BE SET IN CONCRETE.
- FASTEN CHAIN LINK FENCE SECURELY TO THE FENCE POSTS WITH WIRE TIES.
- SECURE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING TO CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT TOP, MID SECTION, AND BELOW GROUND SURFACE.
- EXTEND SHEETING A MINIMUM OF 4 FEET ALONG FLOW SURFACE AND EMBED END A MINIMUM OF 8 INCHES INTO GROUND. SOIL STABILIZATION MATTING MAY BE USED IN LIEU OF IMPERMEABLE SHEETING ALONG FLOW SURFACE.
- WHEN TWO SECTIONS OF SHEETING ADJOIN EACH OTHER, OVERLAP BY 6 INCHES AND FOLD WITH SEAM FACING DOWNGRADE.
- KEEP FLOW SURFACE ALONG DIVERSION FENCE AND POINT OF DISCHARGE FREE OF EROSION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. MAINTAIN POSITIVE DRAINAGE. REPLACE IMPERMEABLE SHEETING IF TORN, IF UNDERMINING OCCURS, REINSTALL FENCE.

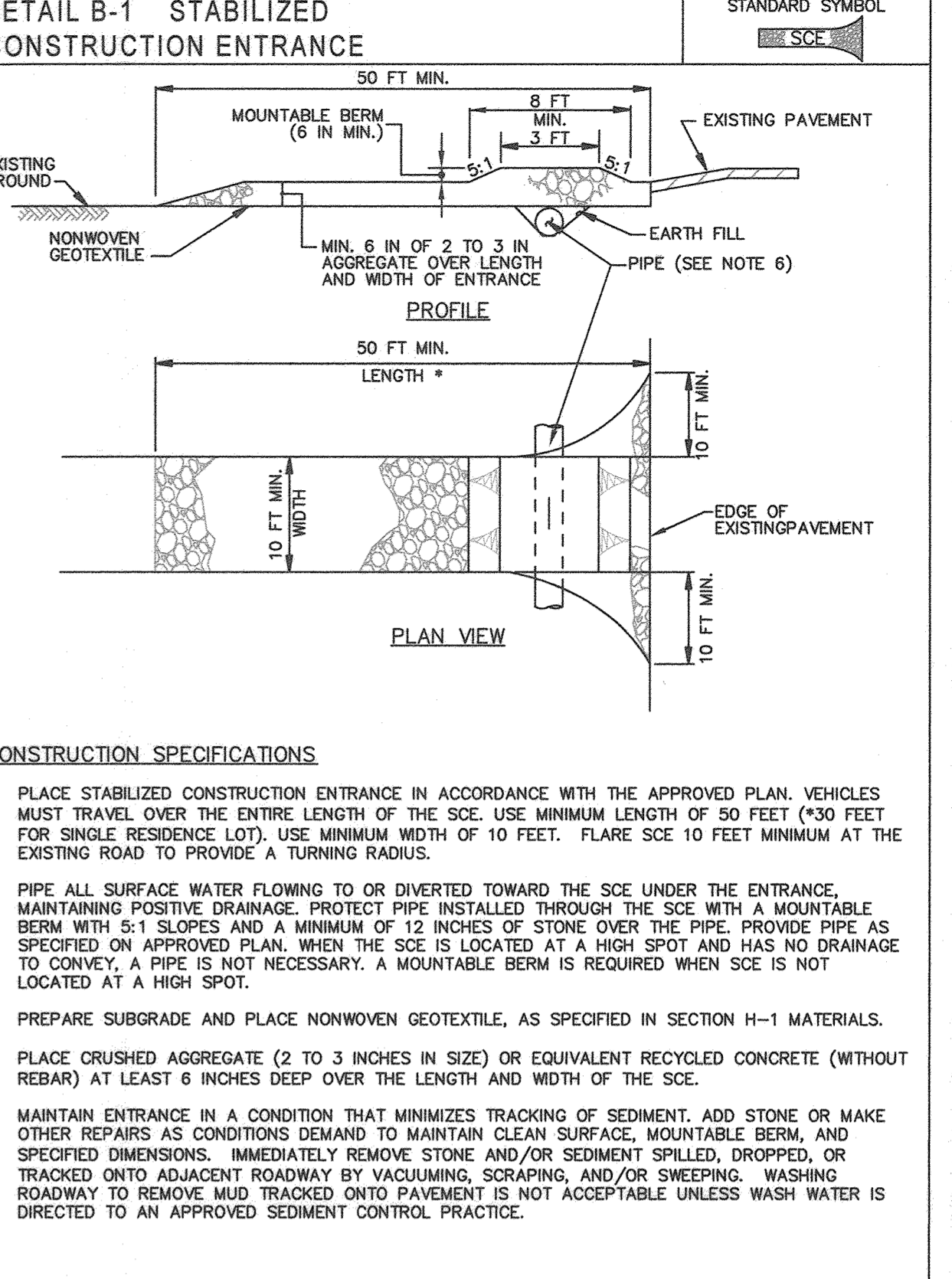
| MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL | | |
|---|------|---|
| U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE | 2011 | MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION |



CONSTRUCTION SPECIFICATIONS

- INSTALL 2 3/8 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
- FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2 3/8 INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.
- FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.
- WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.
- EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.
- PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN, IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

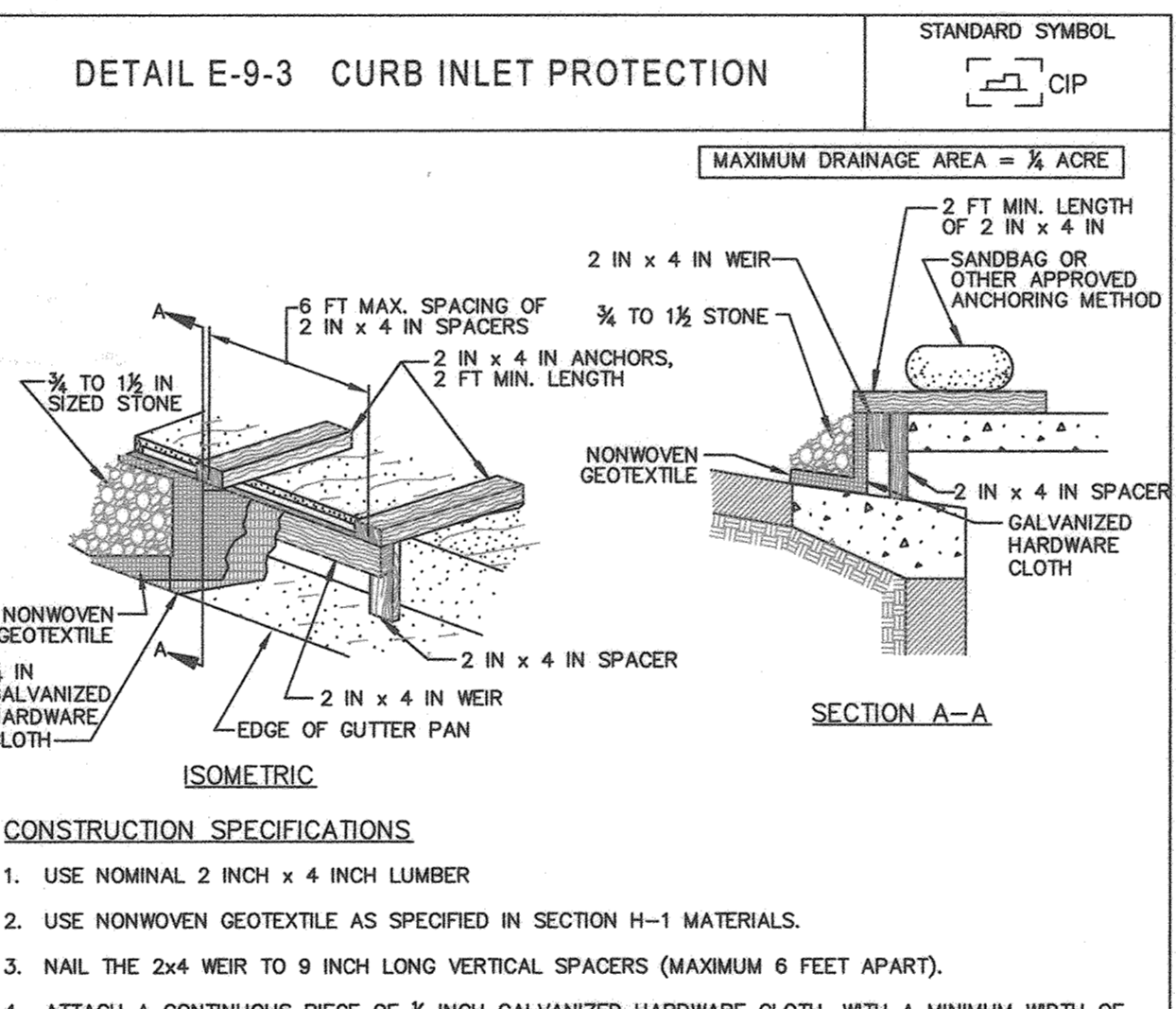
| MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL | | |
|---|------|---|
| U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE | 2011 | MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION |



CONSTRUCTION SPECIFICATIONS

- PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
- PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
- PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
- PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
- MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE. MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLING, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

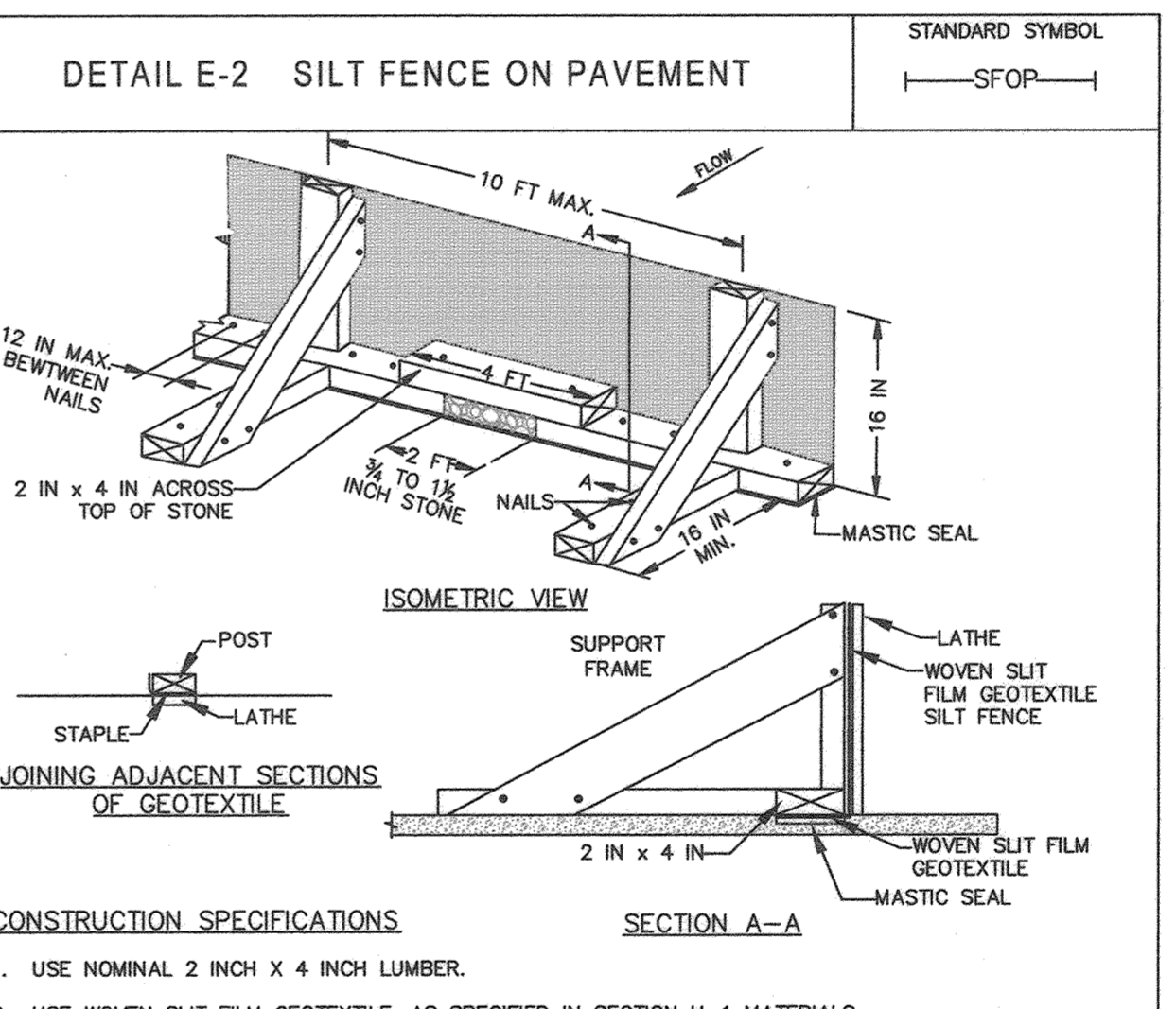
| MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL | | |
|---|------|---|
| U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE | 2011 | MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION |



CONSTRUCTION SPECIFICATIONS

- USE NOMINAL 2 INCH x 4 INCH LUMBER.
- USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
- NAIL THE 2x4 WEIR TO 9 INCH LONG VERTICAL SPACERS (MAXIMUM 6 FEET APART).
- ATTACH A CONTINUOUS PIECE OF 1/2 INCH GALVANIZED HARDWARE CLOTH WITH A MINIMUM WIDTH OF 30 INCHES AND A MINIMUM LENGTH OF 4 FEET LONGER THAN THE THROAT OPENING, TO THE 2x4 WEIR, EXTENDING IT 2 FEET BEYOND THROAT ON EACH SIDE.
- PLACE A CONTINUOUS PIECE OF NONWOVEN GEOTEXTILE OF THE SAME DIMENSIONS AS THE HARDWARE CLOTH OVER THE HARDWARE CLOTH AND SECURELY ATTACH TO THE 2x4 WEIR.
- PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL TO 2x4 ANCHORS (MINIMUM 2 FEET LENGTH). EXTEND THE ANCHORS ACROSS THE INLET TOP AND HOLD IN PLACE BY SANDBAGS OR OTHER APPROVED ANCHORING METHOD.
- INSTALL END SPACERS A MINIMUM OF 1 FOOT BEYOND THE ENDS OF THE THROAT OPENING.
- FORM THE HARDWARE CLOTH AND THE GEOTEXTILE TO THE CONCRETE GUTTER AND FACE OF CURB TO SPAN THE INLET OPENING. COVER THE HARDWARE CLOTH AND GEOTEXTILE WITH CLEAN 3/4 TO 1 1/2 INCH STONE OR EQUIVALENT RECYCLED CONCRETE.
- AT NON-SUMP LOCATIONS, INSTALL A TEMPORARY SANDBAG OR ASPHALT BERM TO PREVENT INLET BYPASS.
- STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

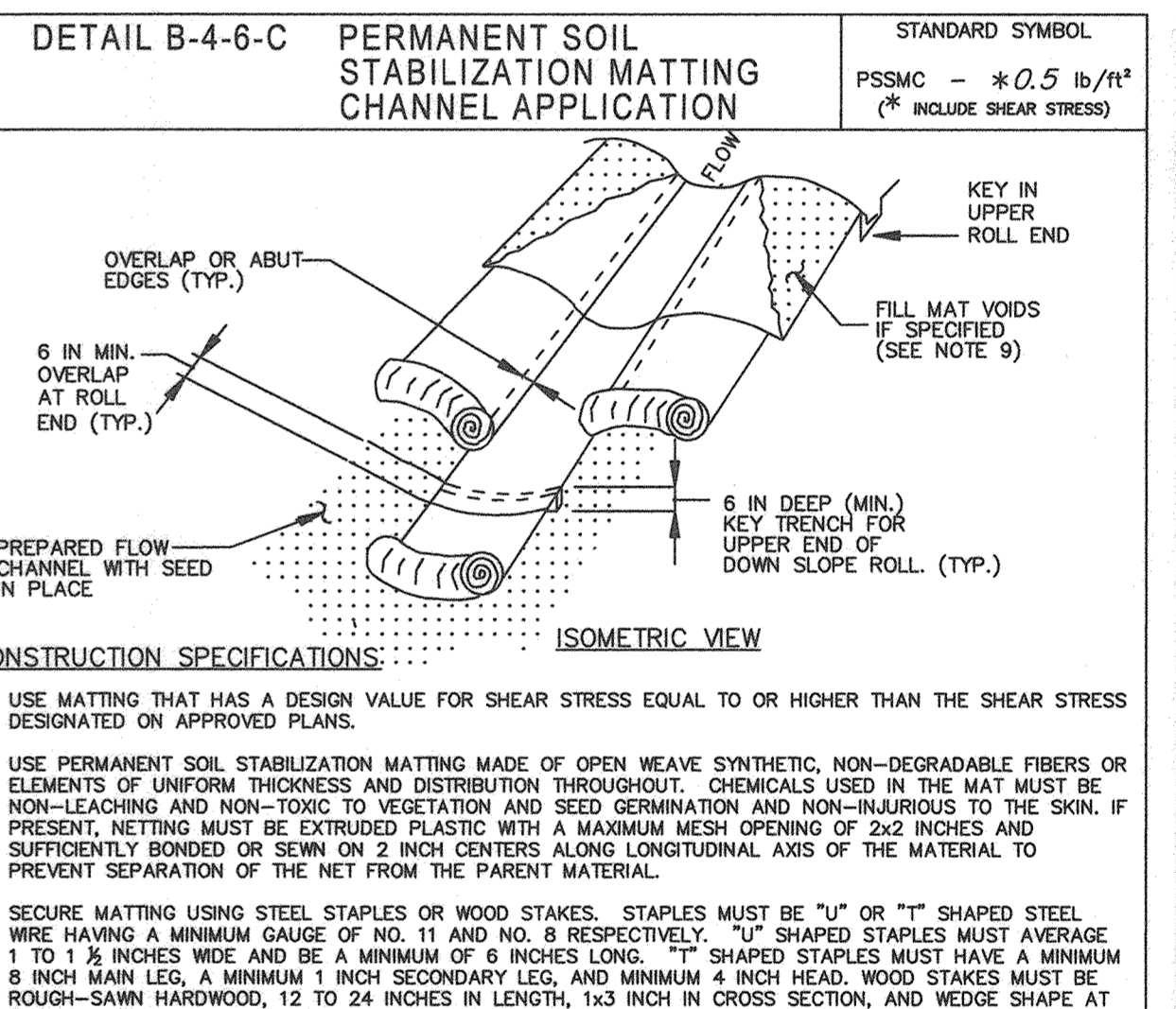
| MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL | | |
|---|------|---|
| U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE | 2011 | MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION |



CONSTRUCTION SPECIFICATIONS

- USE NOMINAL 2 INCH x 4 INCH LUMBER.
- USE WOVEN SLIT FILM GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
- PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
- SPACE UPRIGHT SUPPORTS NO MORE THAN 10 FEET APART.
- PROVIDE A TWO FOOT OPENING BETWEEN EVERY SET OF SUPPORTS AND PLACE STONE IN THE OPENING OVER GEOTEXTILE.
- KEEP SILT FENCE TAUT AND SECURELY STAPLE TO THE UPSLOPE SIDE OF UPRIGHT SUPPORTS. EXTEND GEOTEXTILE UNDER 2x4.
- WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, FOLD, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL ATTACH LATHE.
- PROVIDE A MASTIC SEAL BETWEEN PAVEMENT, GEOTEXTILE, AND 2x4 TO PREVENT SEDIMENT-LADEN WATER FROM ESCAPING BENEATH SILT FENCE INSTALLATION.
- SECURE BOARDS TO PAVEMENT WITH 40D 5 INCH MINIMUM LENGTH NAILS.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. MAINTAIN WATER TIGHT SEAL ALONG BOTTOM. REPLACE STONE IF DISPLACED.

| MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL | | |
|---|------|---|
| U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE | 2011 | MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION |



CONSTRUCTION SPECIFICATIONS

- USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
- USE PERMANENT SOIL STABILIZATION MATTING MADE OF OPEN WEAVE SYNTHETIC, NON-DEGRADABLE FIBERS OR ELEMENTS OF UNIFORM THICKNESS AND DISTRIBUTION THROUGHOUT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-HARMFUL TO THE SKIN. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2x2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.
- SECURE MATTING USING STEEL STAPLES OR WOOD STAKES. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1 1/2 INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SHAPE, AND WEDGE SHAPE AT THE BOTTOM.
- PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDBED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS, UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- UNROLL MATTING IN DIRECTION OF WATER FLOW, CENTERING THE FIRST ROLL ON THE CHANNEL CENTER LINE. WORK FROM CENTER OF CHANNEL OUTWARD WHEN PLACING ROLLS. LAY MATTING SMOOTHLY AND FIRMLY UPON THE SEDED SURFACE. AVOID STRETCHING THE MATTING.
- OVERLAP OR ABUT EDGES OF MATTING ROLLS PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSTREAM MAT OVERLAPPING ON TOP OF THE NEXT DOWNSTREAM MAT.
- KEY IN THE TOP OF SLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY.
- STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
- IF SPECIFIED BY THE DESIGNER OR MANUFACTURER AND DEPENDING ON THE TYPE OF MAT BEING INSTALLED, ONCE THE MATTING IS KEPT AND STAPLED IN PLACE, FILL THE MAT VOIDS WITH TOP SOIL OR GRANULAR MATERIAL AND LIGHTLY COMPACT OR ROLL TO MAXIMIZE SOIL/MAT CONTACT WITHOUT CRUSHING MAT.
- ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

| MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL | | |
|---|------|---|
| U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE | 2011 | MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION |

PROFESSIONAL CERTIFICATE
I hereby certify that this Plan for Erosion and Sediment Control Represents a Practical and Workable Plan Based on My Personal Knowledge of the Site Conditions and that it was Prepared in Accordance with the Requirements of the Howard Soil Conservation District.
Frank John Namburn II 5/23/21
Date

DEVELOPER'S CERTIFICATE
"I hereby certify that all Development and Construction will be Done According to this Plan of Development and Plan for Erosion and Sediment Control and that all Responsible Personnel involved in the Construction Project will Have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before Beginning the Project. I also Authorize Periodic On-Site Inspection by the Howard Soil Conservation District or their Authorized Agents, as are Deemed Necessary."
Daryl Alan 5/17/2021
Signature of Developer Date

Approved: This Development is Approved For Erosion and Sediment Control by the Howard Soil Conservation District.
Alexander Bratchis 05/27/21
Howard Soil Conservation District Date

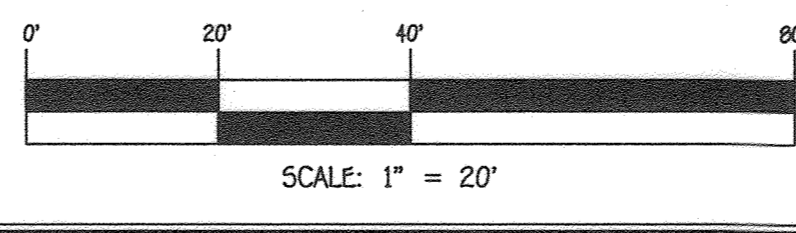
Approved: Department of Planning and Zoning
[Signature] 5/16/21
Chief, Division of Land Development Date

Approved: Howard County Department of Public Works
[Signature] 07/02/2021
Chief, Bureau of Highways Date

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 461-2995

AS-BUILT CERTIFICATION
Note: There is no "AS-BUILT" information provided on this sheet.
Paul Gerard Crahanugh 5/23/21
Date
PAUL GERARD CRAHANUGH #27020

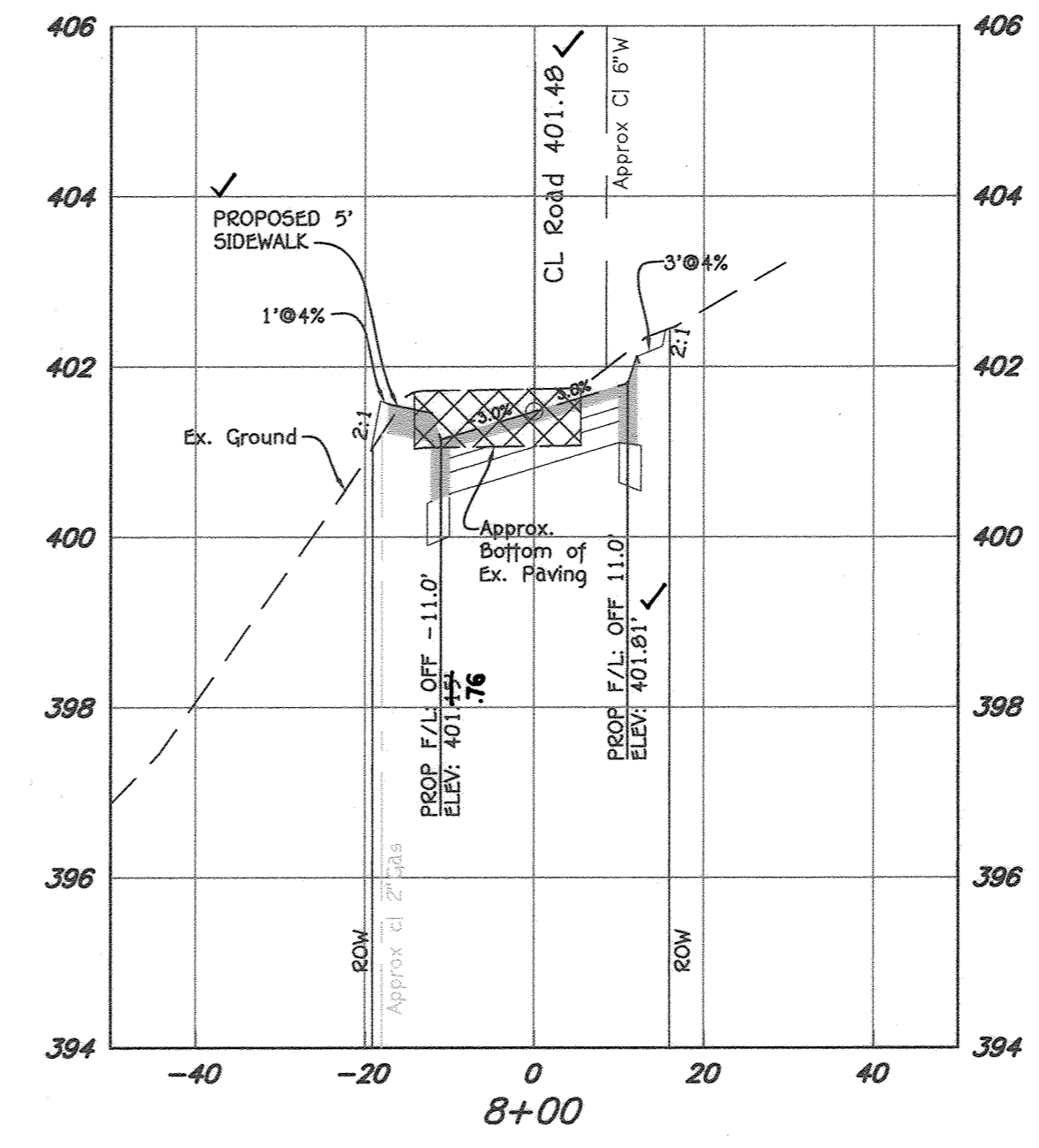
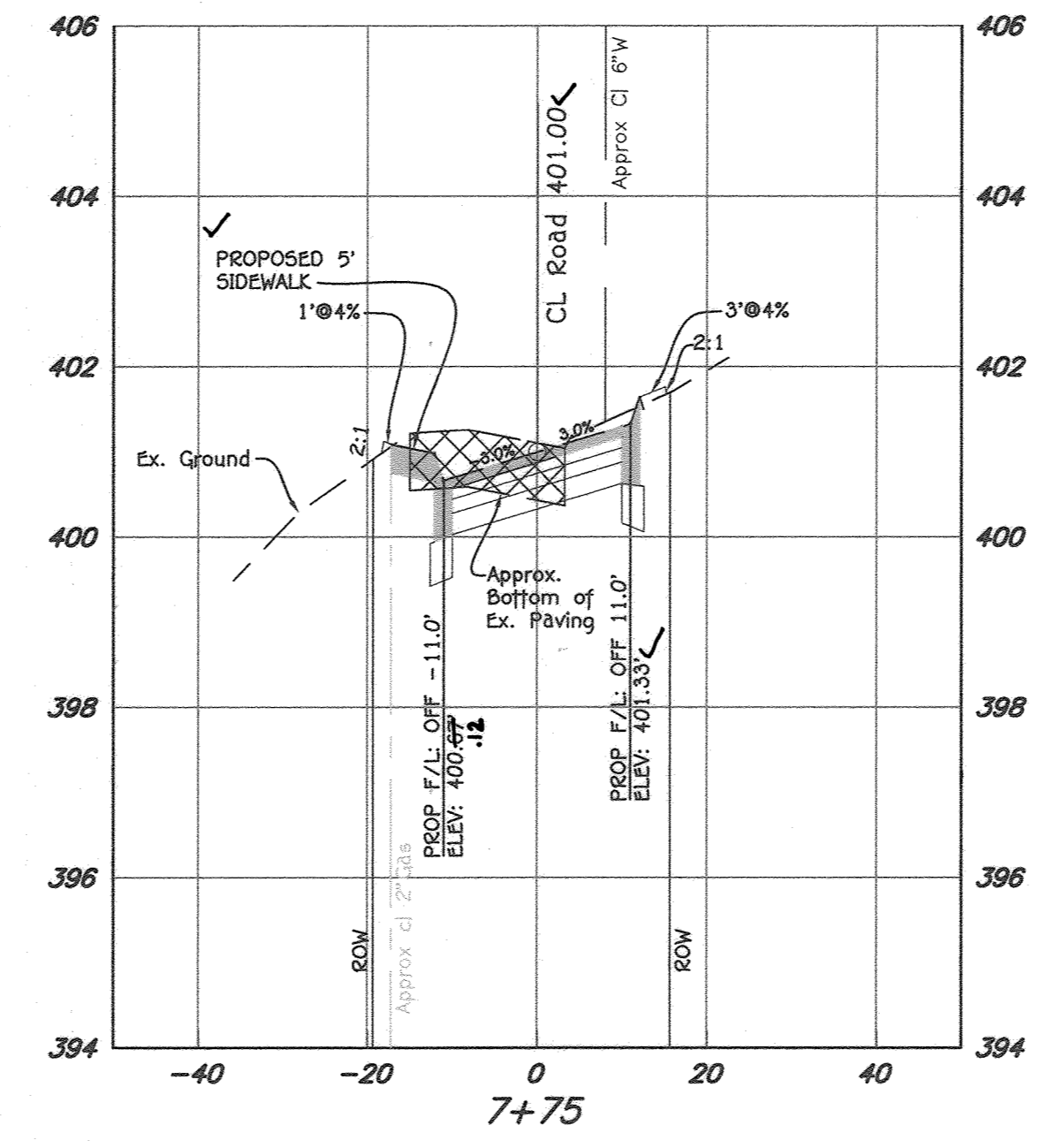
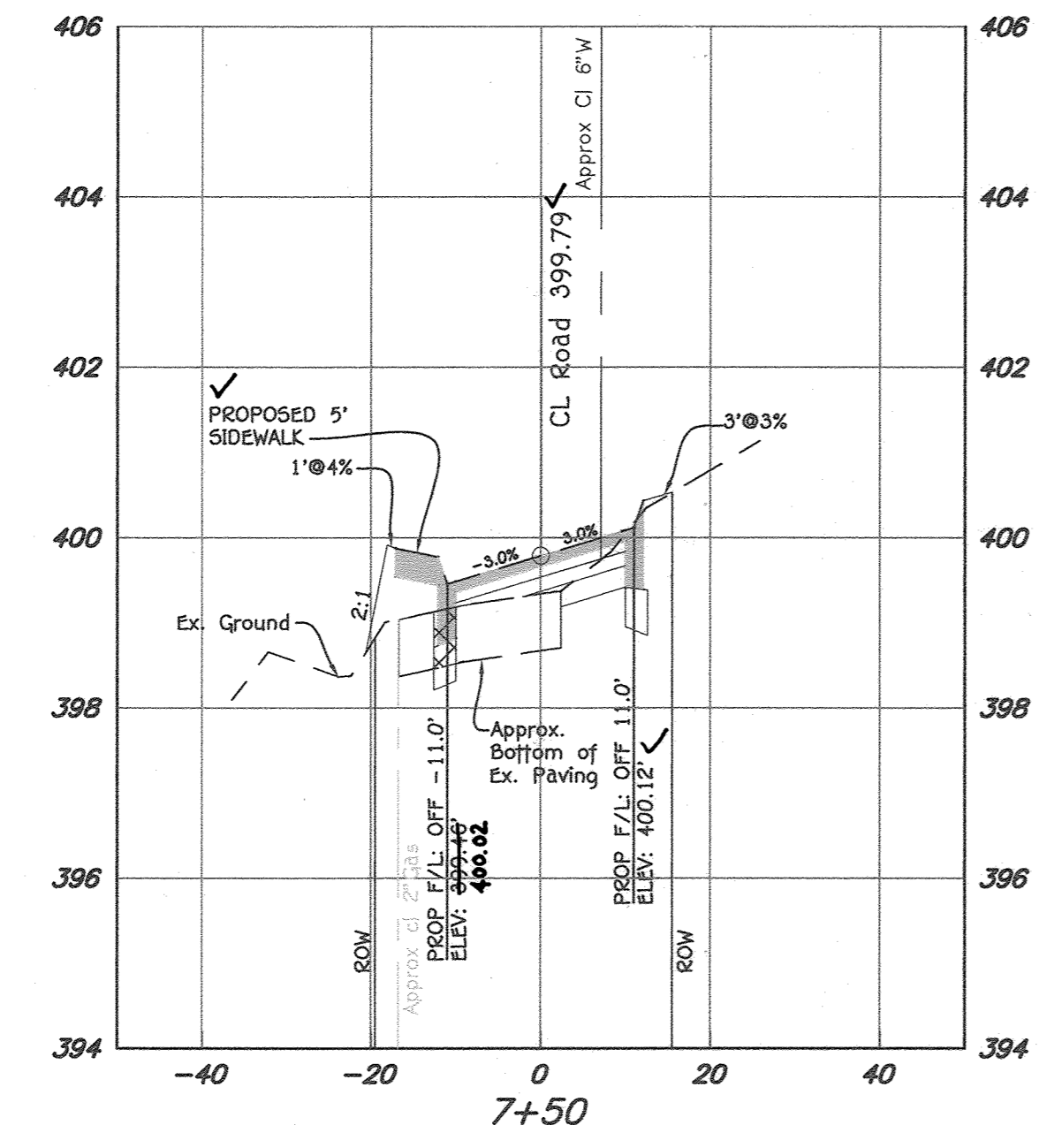
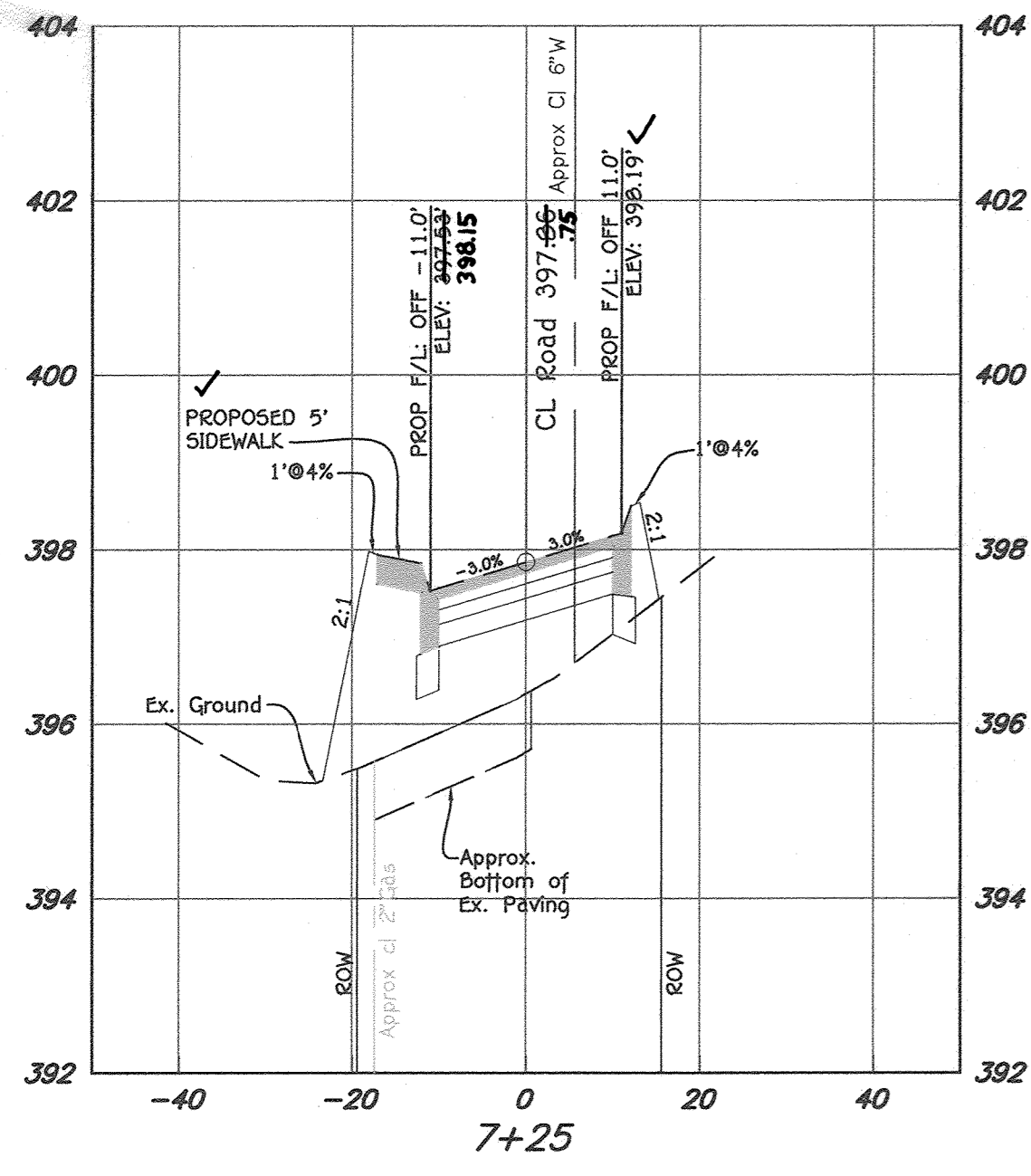
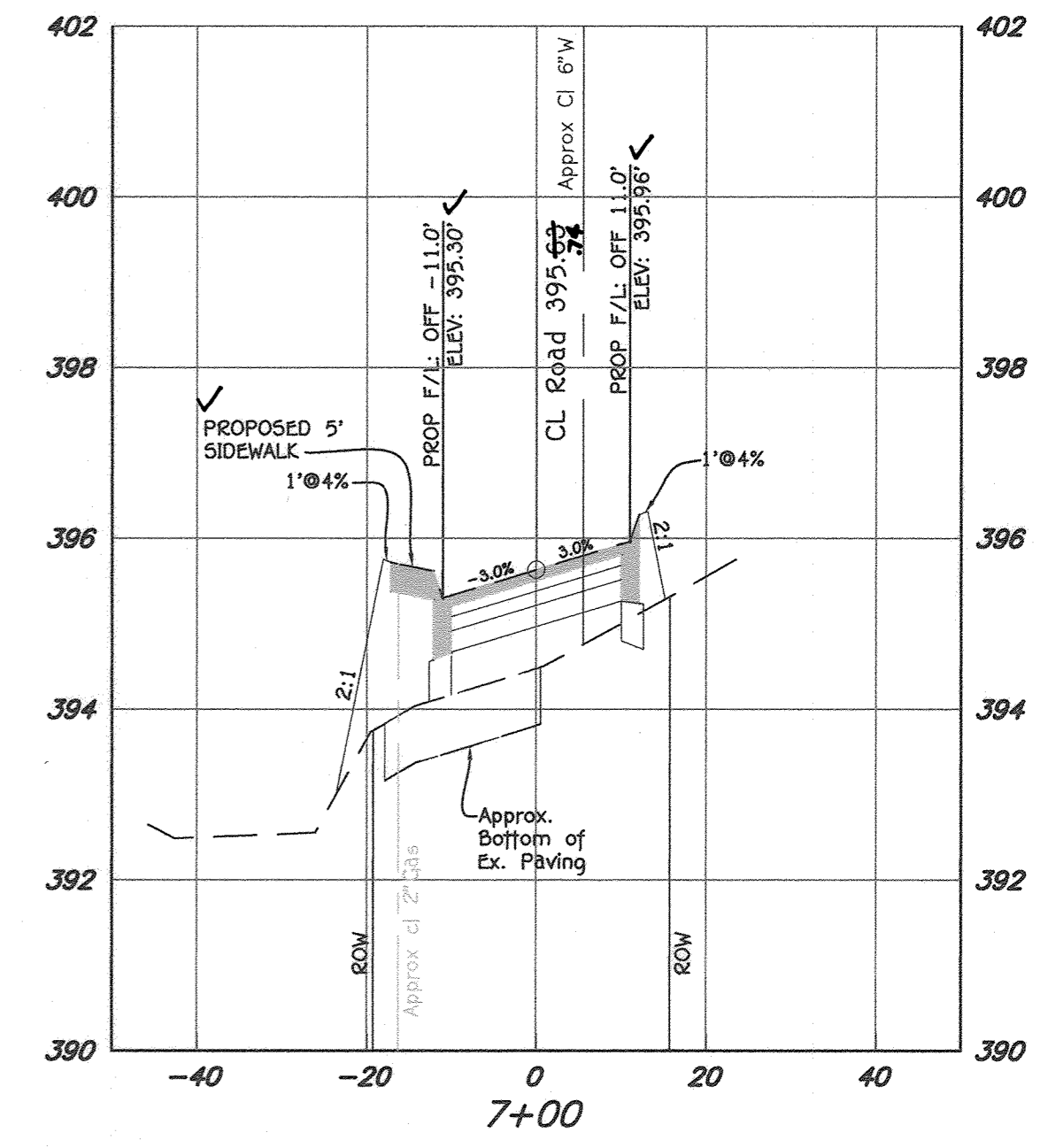
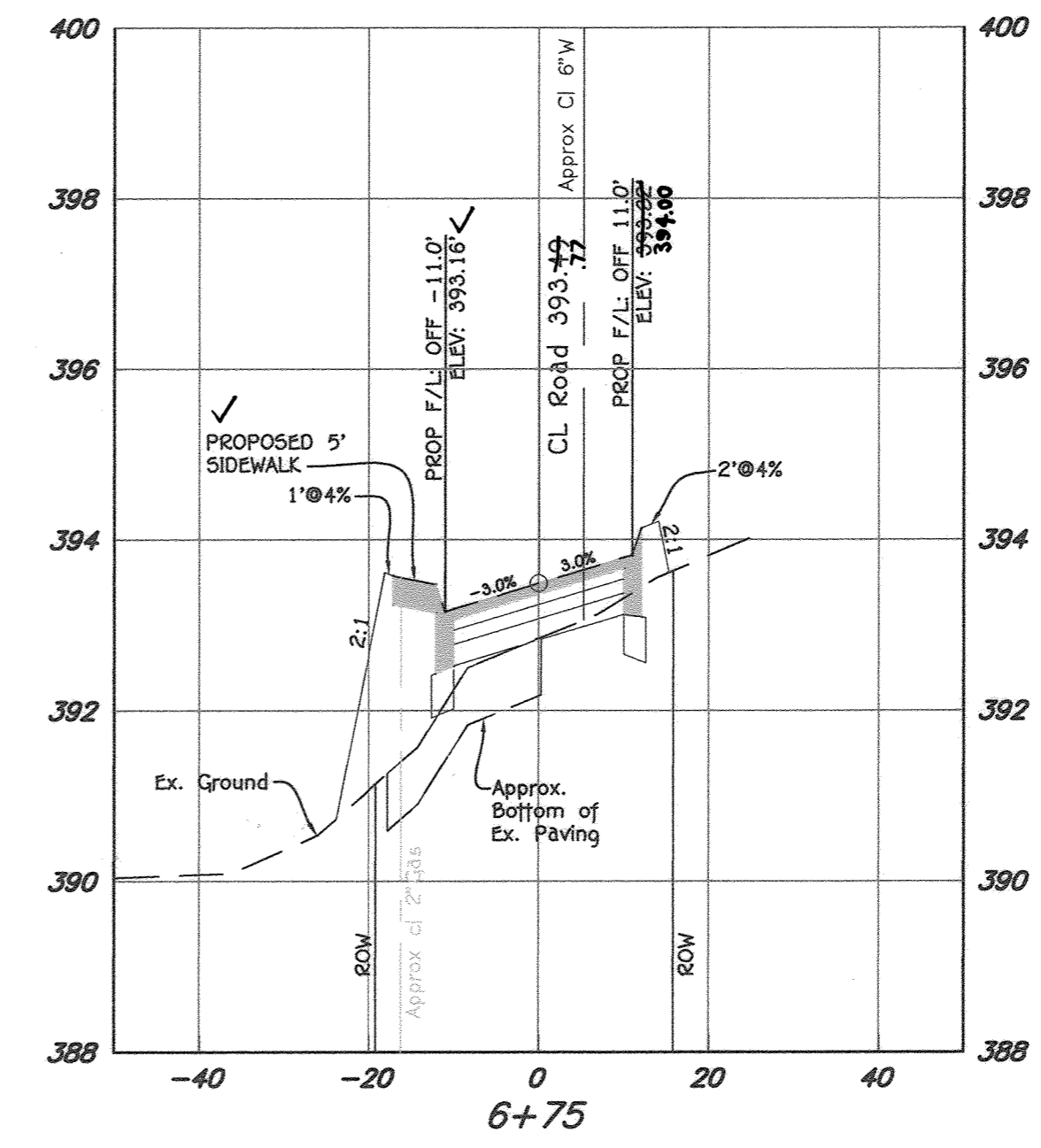
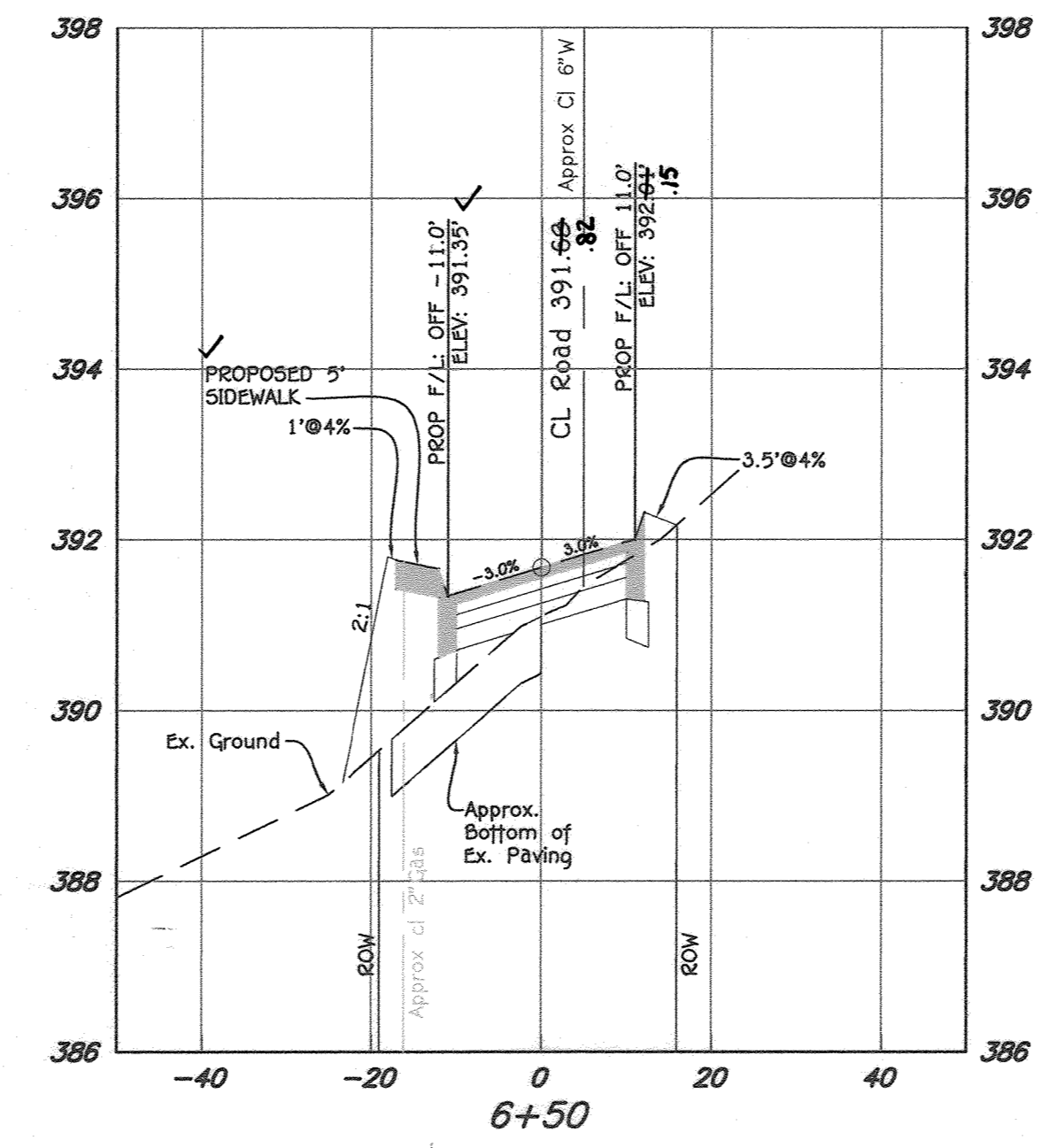
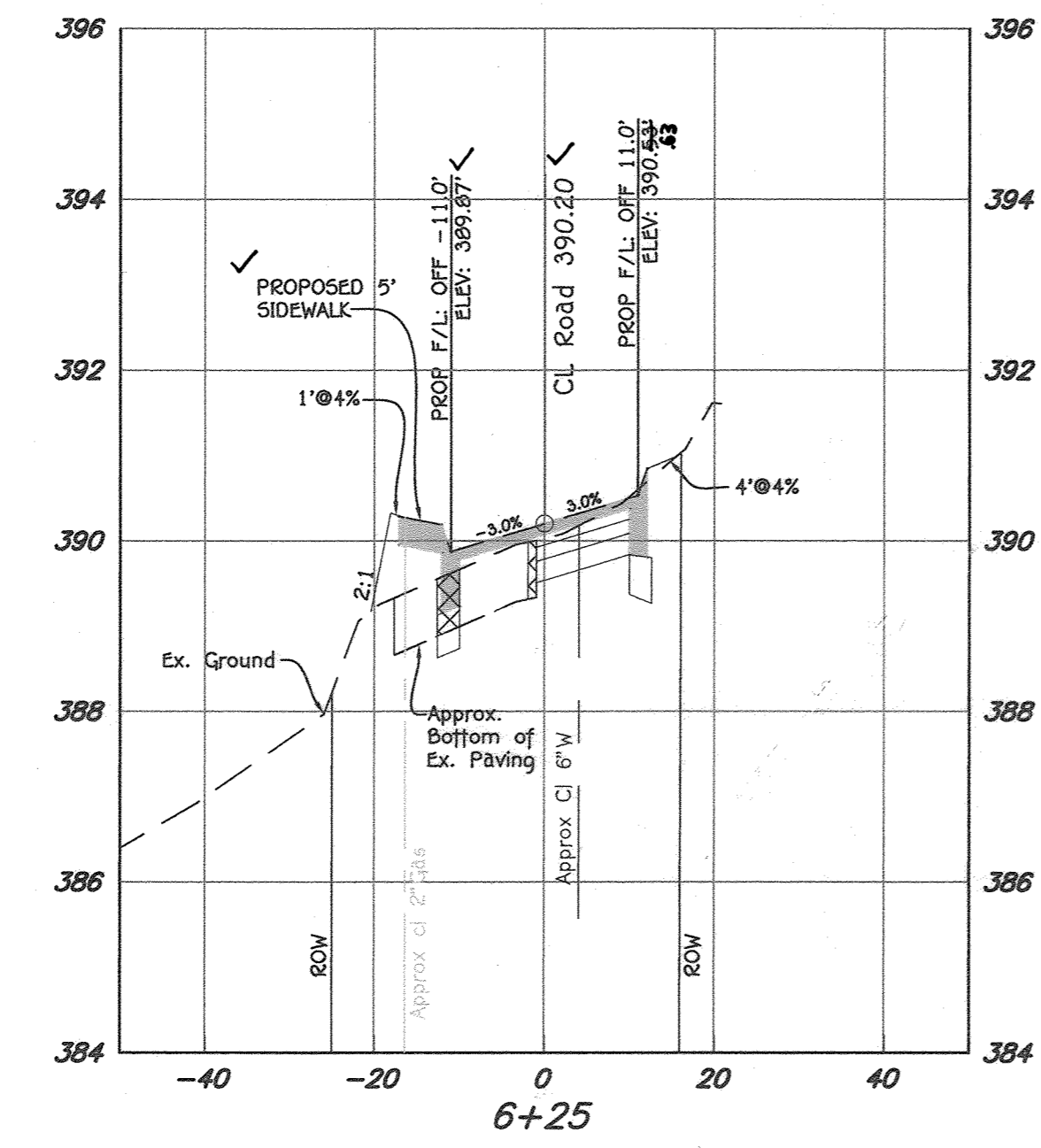
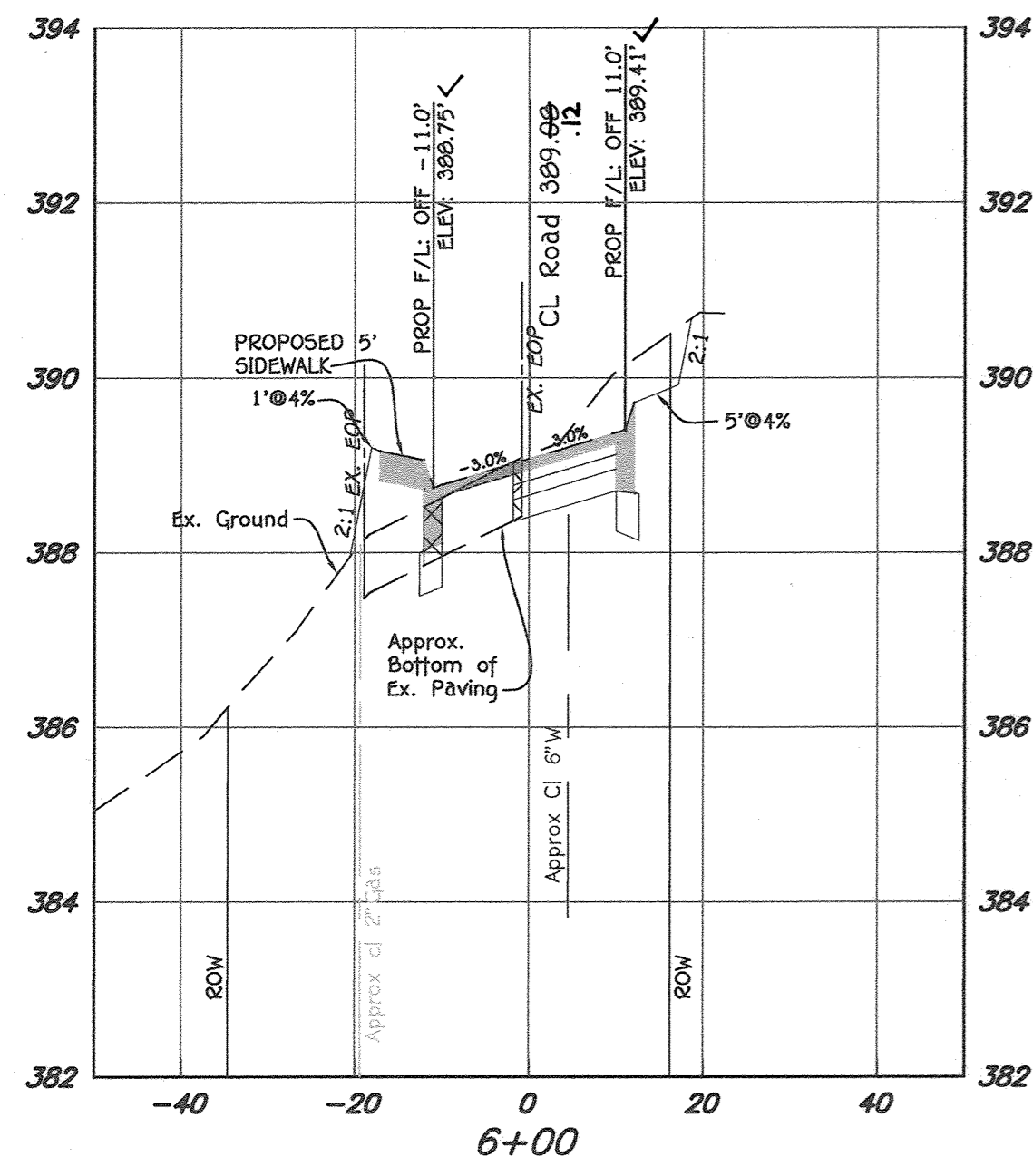
PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/21.
Frank John Namburn II 5/23/21
Date



OWNER
HOWARD COUNTY, MARYLAND
3430 COURT HOUSE DRIVE
ELLSWORTH CITY, MD
410-313-4401

DEVELOPER
TERRY'S PLACE DEVELOPMENT, LLC
C/O DAVE WOESSNER
308 HOGOTHY ROAD
SEVERNA PARK, MD 21146
410-461-0837

SEDIMENT AND EROSION CONTROL NOTES AND DETAILS
COOKS LANE
PREVIOUS FILE NUMBERS: P3048, F-80-092, & 5-17-006
ZONED: R-ED
TAX MAP NO.: 24 GRID NO.: 18
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: MAY, 2021
SHEET 12 OF 17



CROSS SECTION-COOKS LANE
SCALE: HORIZ. 1" = 20'
VERT. 1" = 2'

AS-BUILT CERTIFICATION
I hereby certify, by my seal, that to the best of my knowledge and belief that the facilities shown on this plan were constructed as shown on this "AS-BUILT" plan meet the approved plans and specifications.
Paul Gerard Cavanaugh
Date: 5/23/21
PAUL GERARD CAVANAUGH #27020
Exp 1/31/22

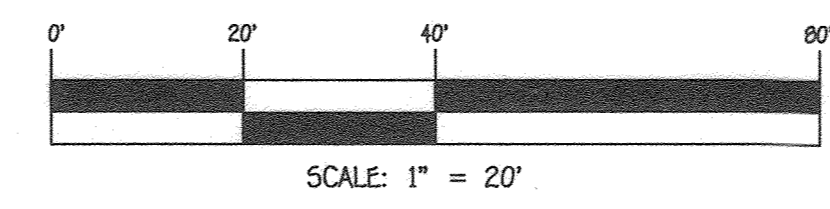


Approved: Department Of Planning And Zoning
Chief, Division Of Land Development
[Signature]
Date: 7/14/21
Approved: Howard County Department Of Public Works
Chief, Bureau Of Highways
[Signature]
Date: 07/02/2022

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 461-2992



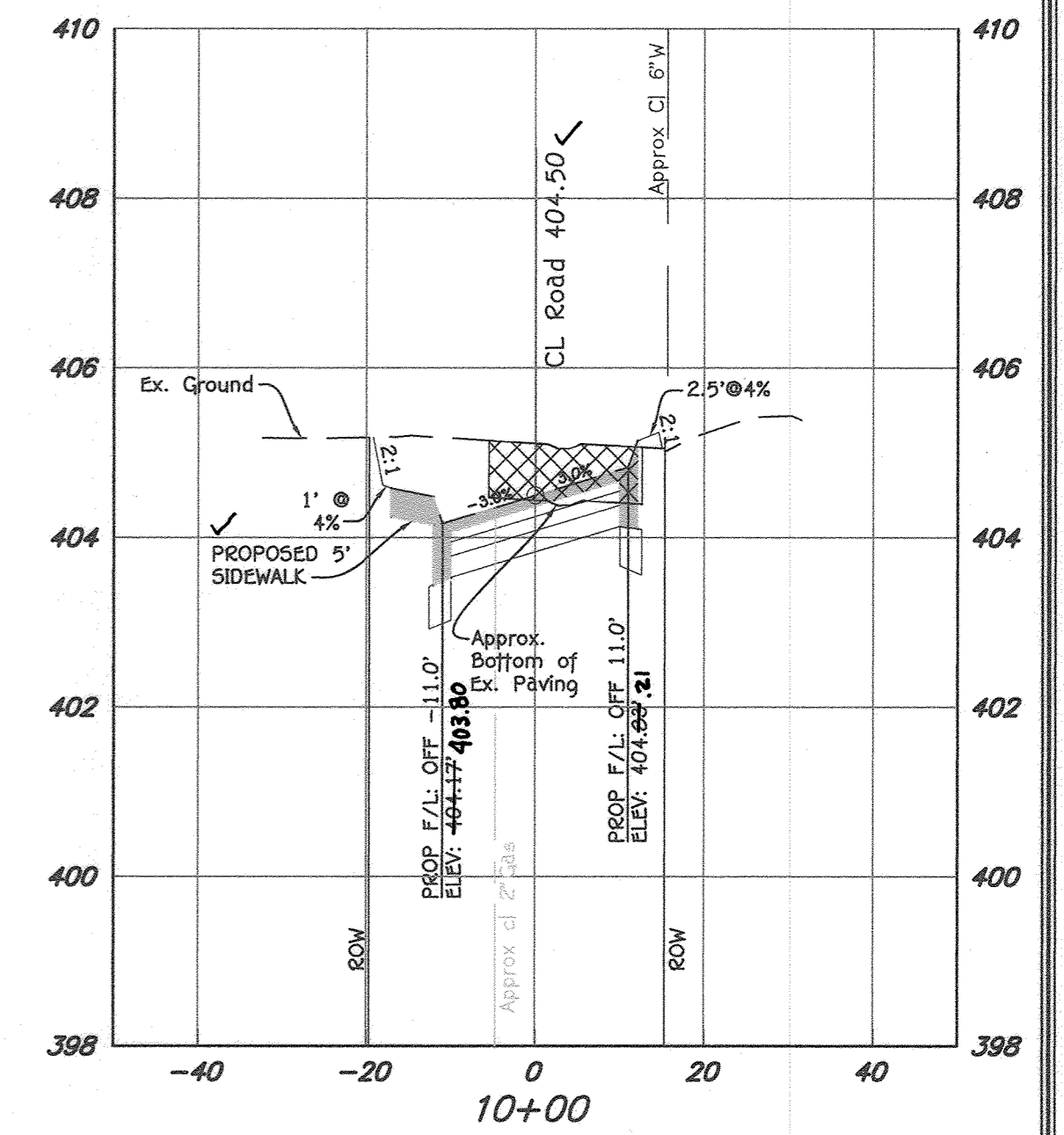
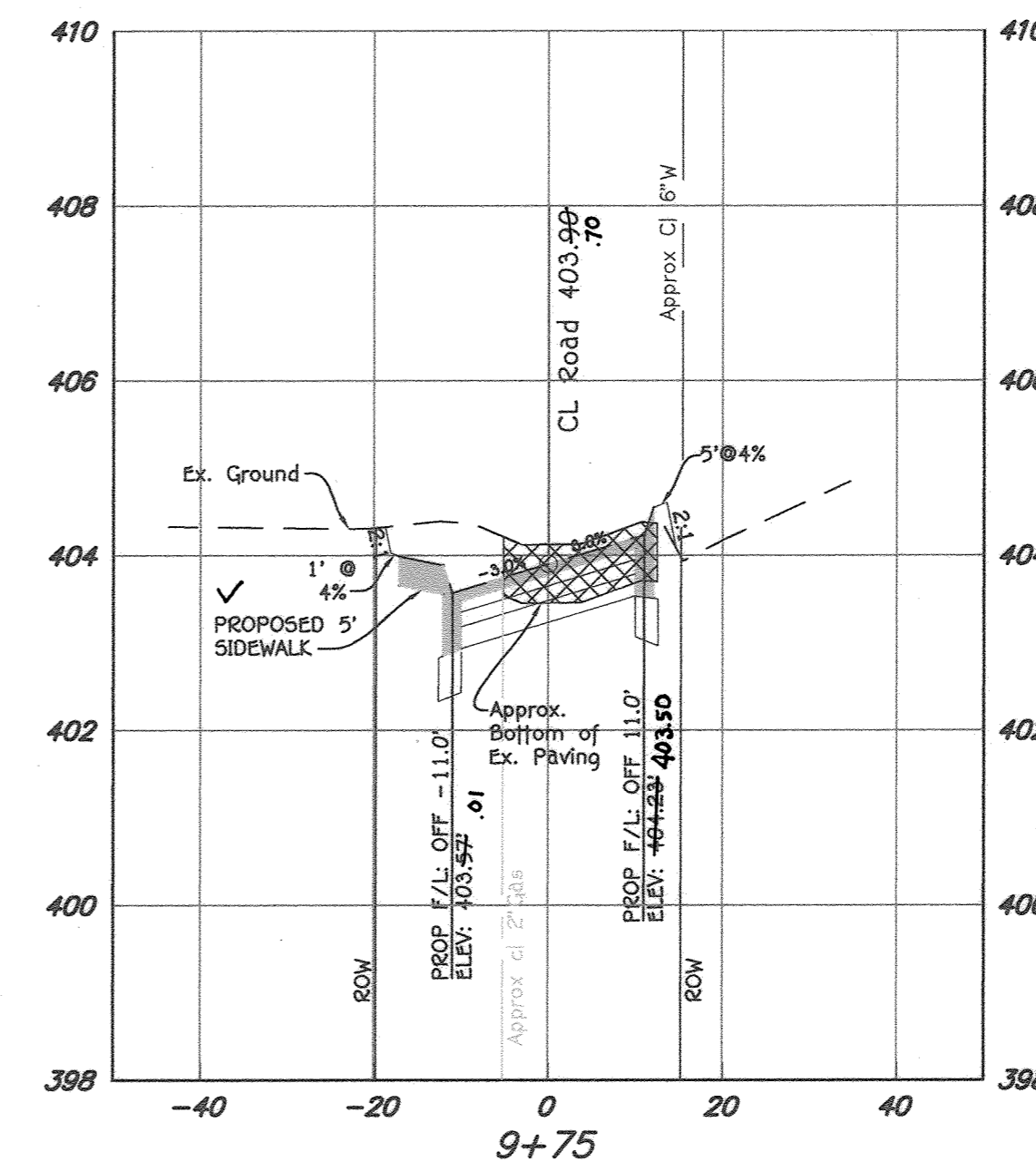
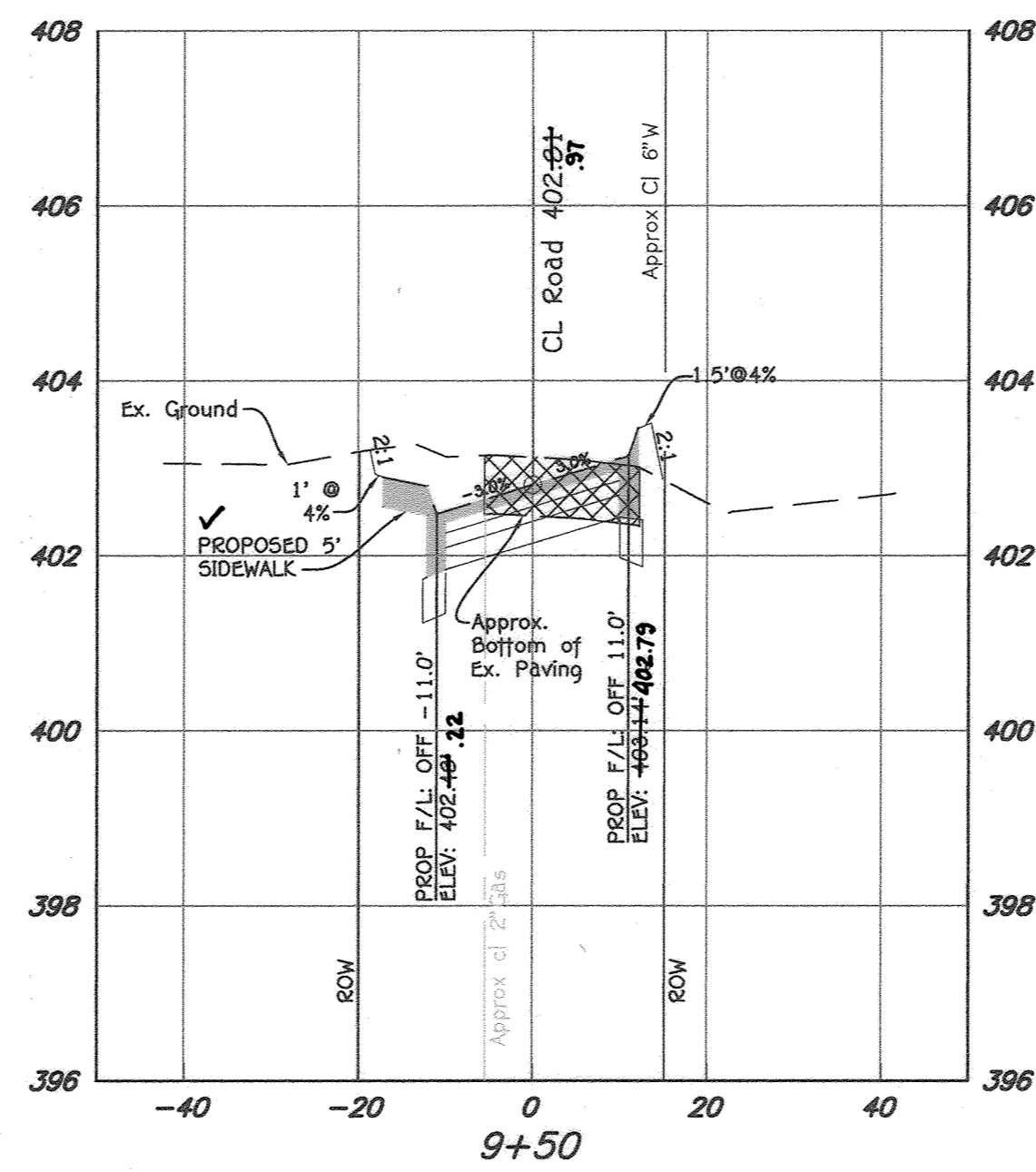
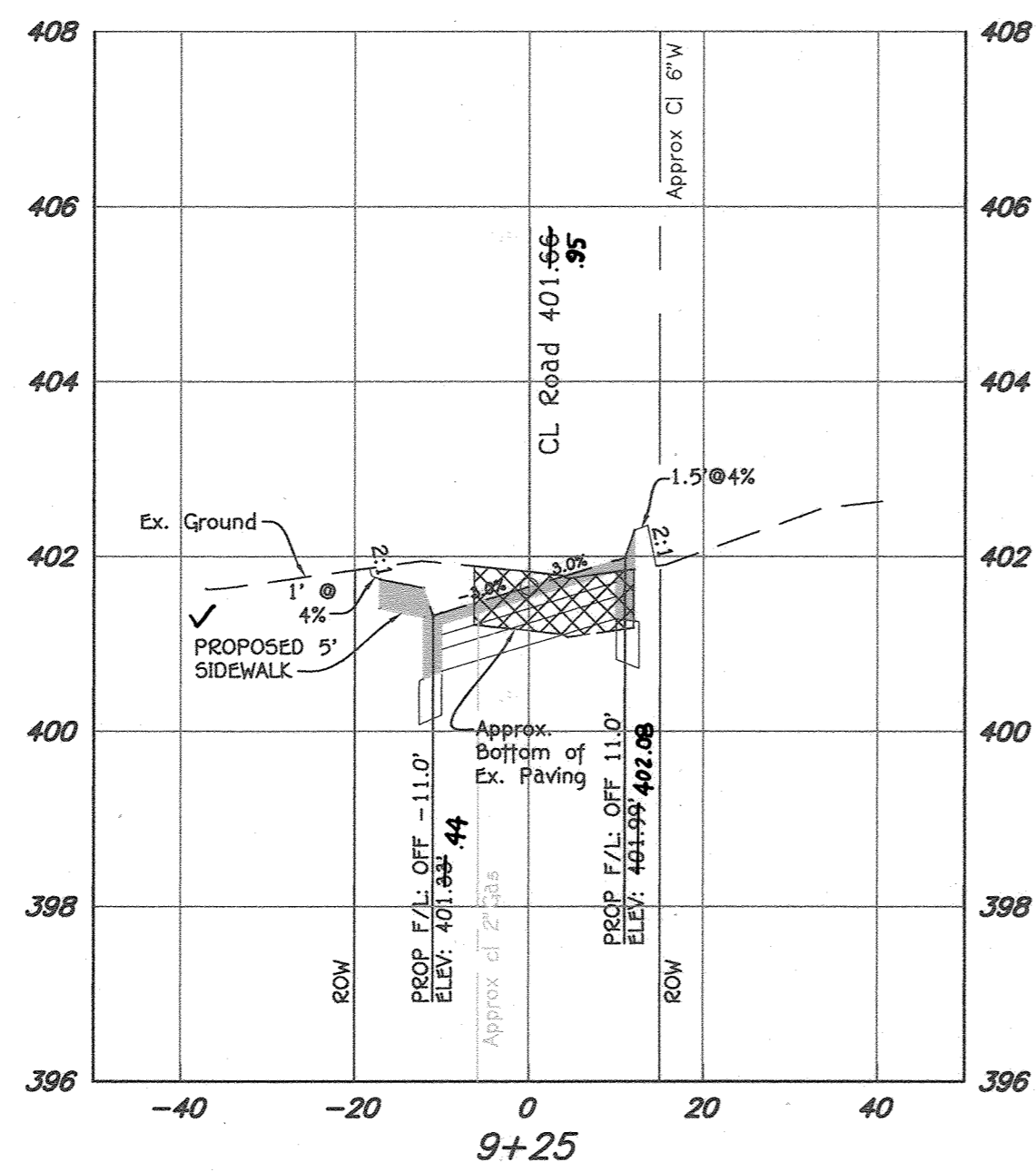
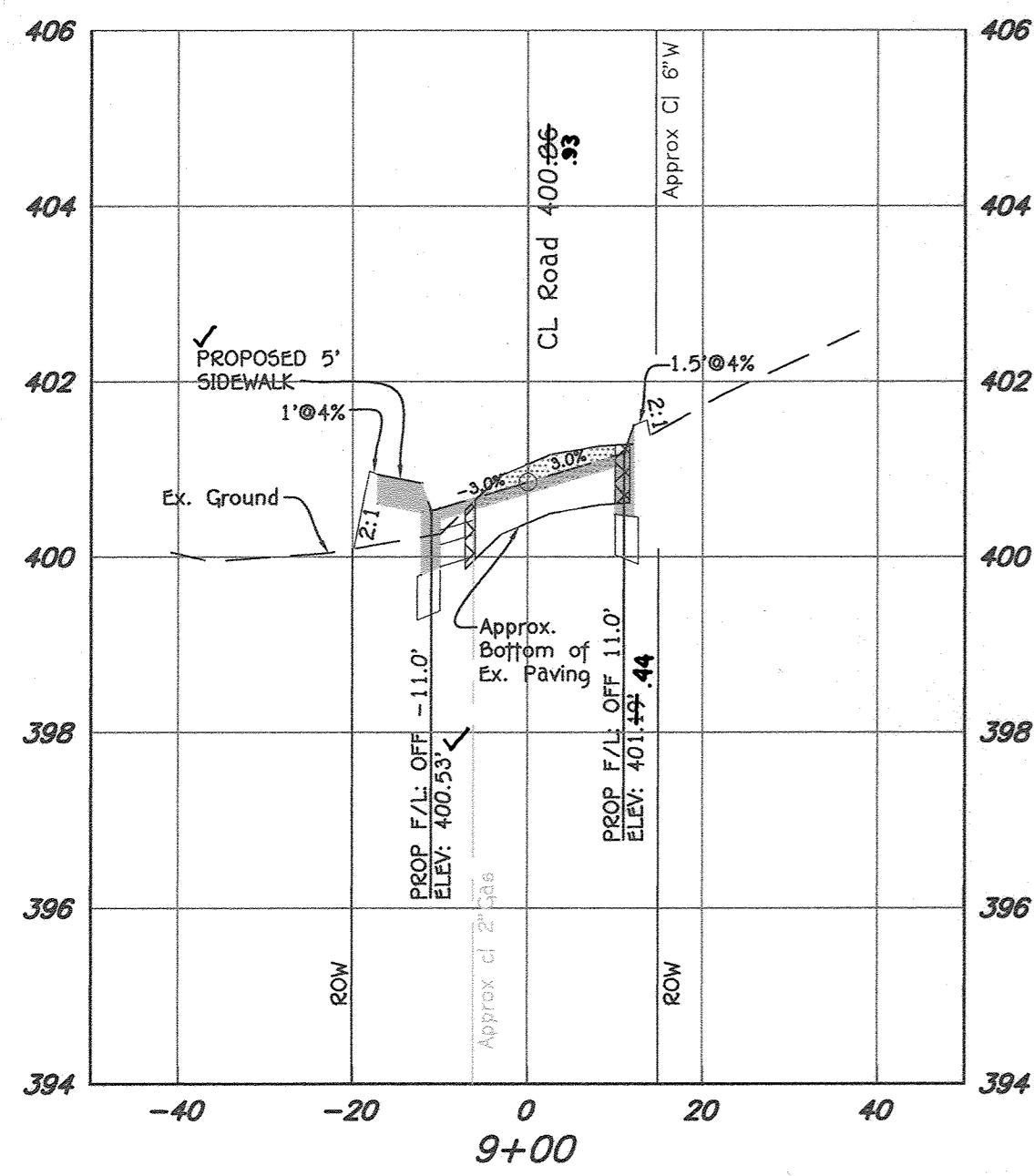
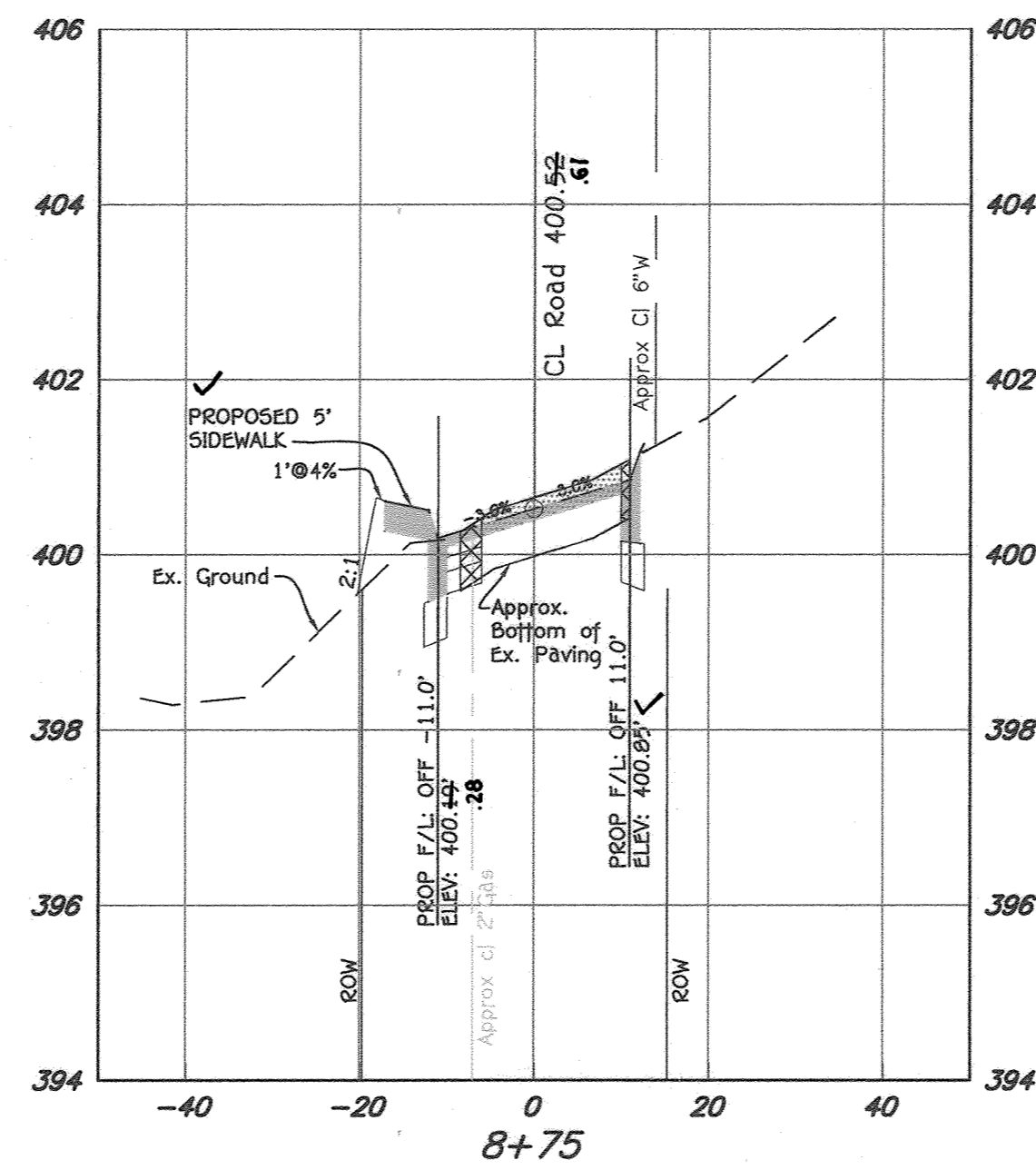
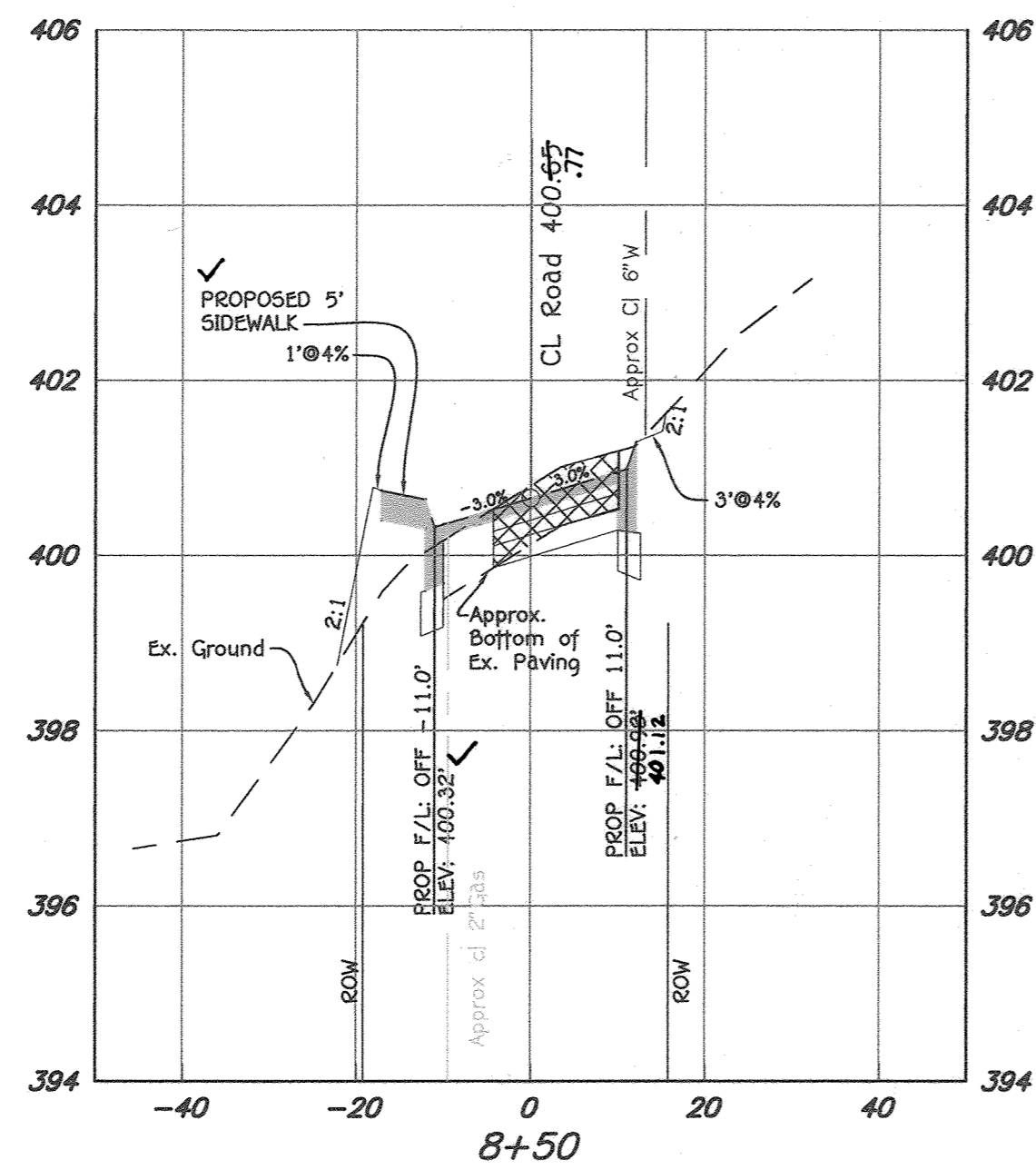
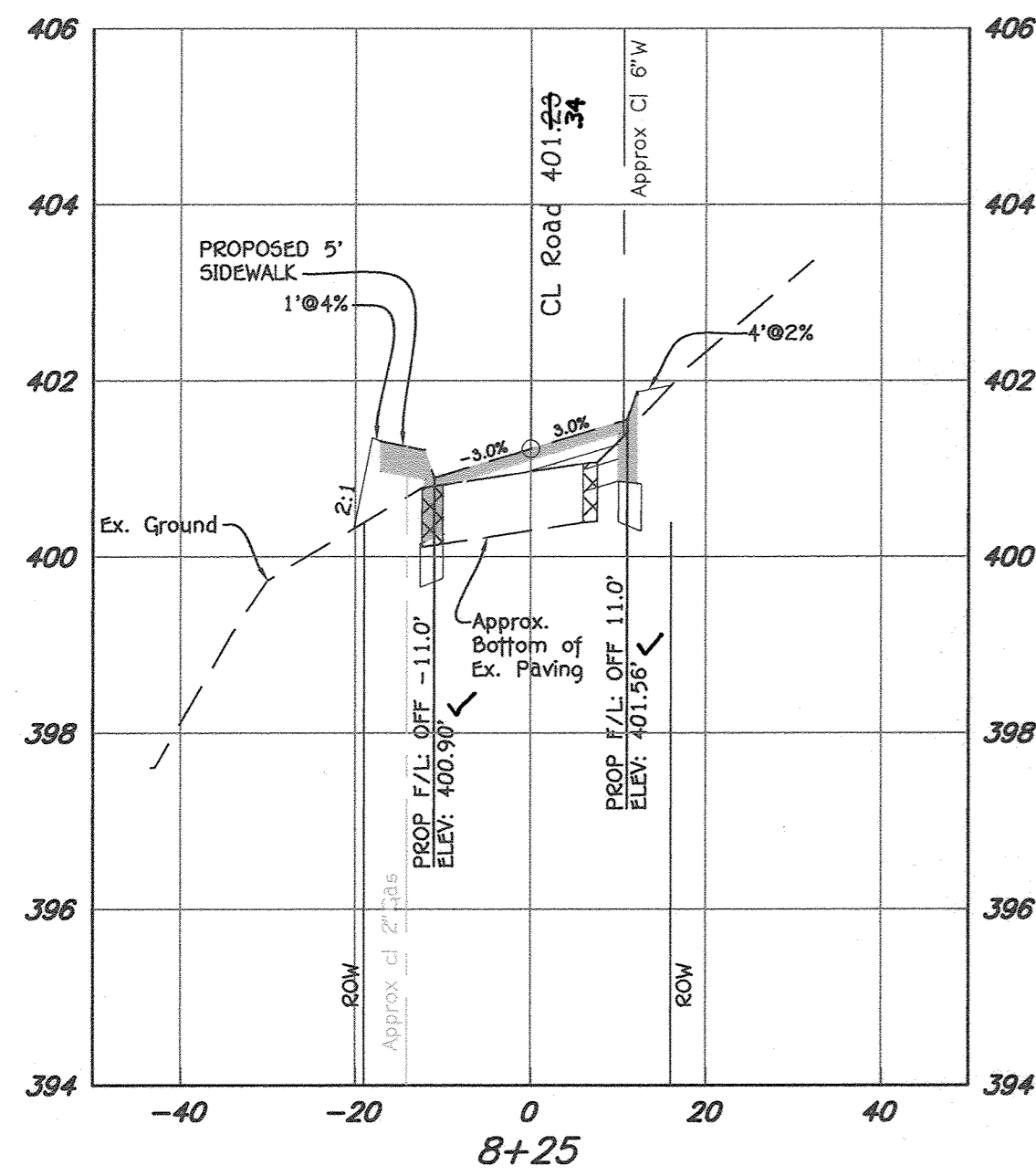
PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/21.
Frank J. Parnianpour II
Date: 5/23/21



OWNER
HOWARD COUNTY, MARYLAND
3430 COURT HOUSE DRIVE
ELLCOTT CITY, MD
410-313-4401

DEVELOPER
TERRY'S PLACE DEVELOPMENT, LLC
C/O DAVE WOESSNER
308 MADDOXY ROAD
SEVERNA PARK, MD 21146
410-461-0837

COOKS LANE CROSS-SECTIONS
COOKS LANE
PREVIOUS FILE NUMBERS: P5048, F-80-092, & 5-17-006
ZONED: R-ED
TAX MAP NO.: 24 GRID NO.: 1B
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: MAY, 2021
AS-BUILT SHEET 13 OF 17



CROSS SECTION-COOKS LANE

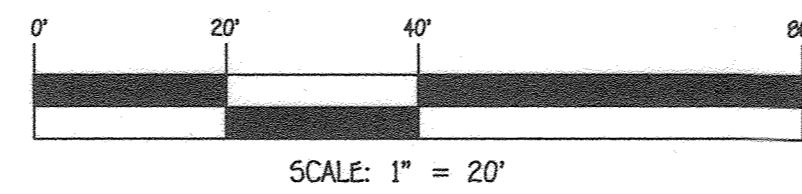
SCALE: 1" = 20'

Approved: Department Of Planning And Zoning
 Chief, Division Of Land Development
 Date: 9/16/21
 Chief, Development Engineering Division
 Date: 7-14-21
 Approved: Howard County Department Of Public Works
 Chief, Bureau Of Highways
 Date: 07/02/2021

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PkE
 ELLICOTT CITY, MARYLAND 21114
 (410) 461-2855



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/21.
 Frank John Maralson
 Date: 5/23/21

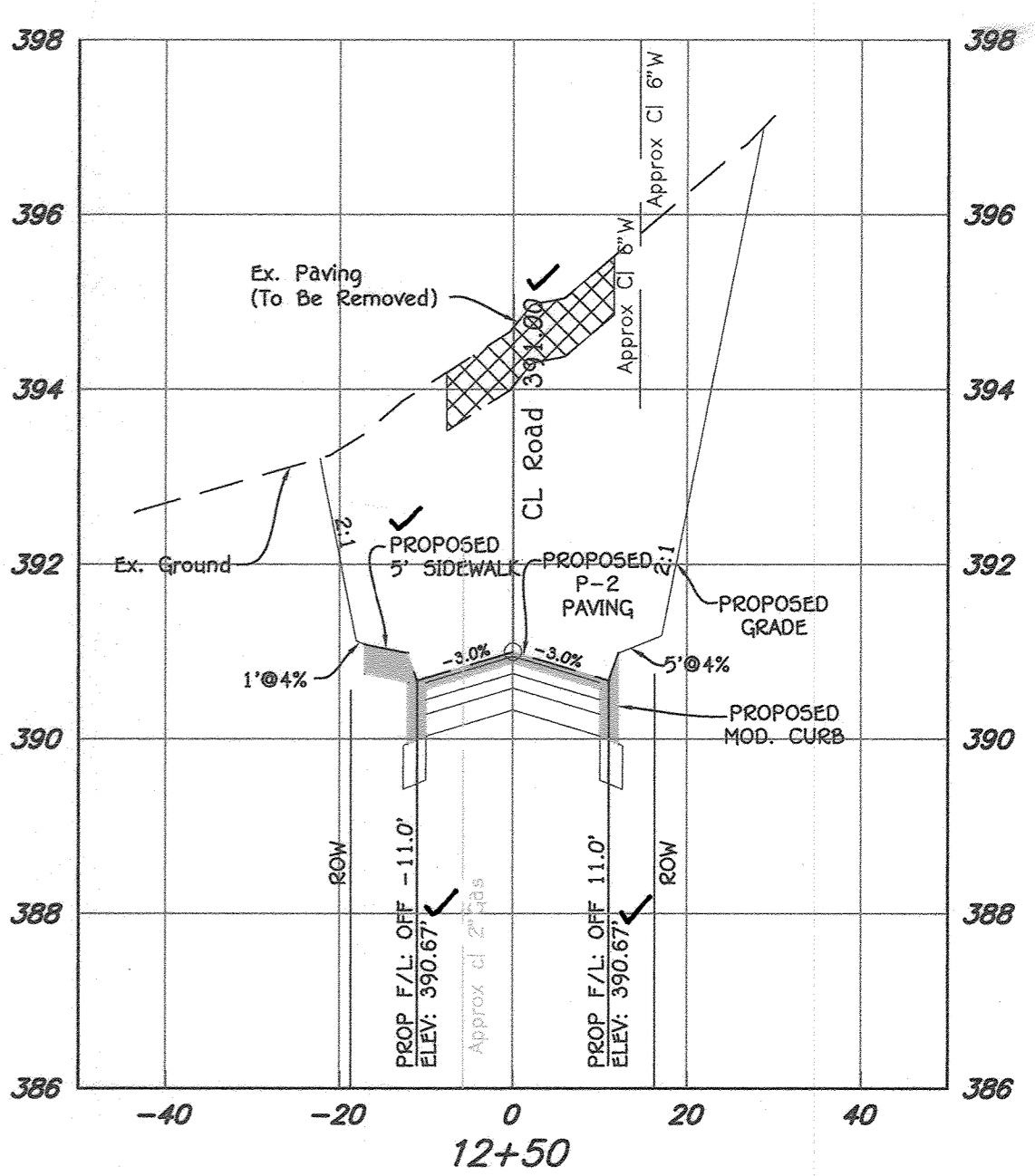
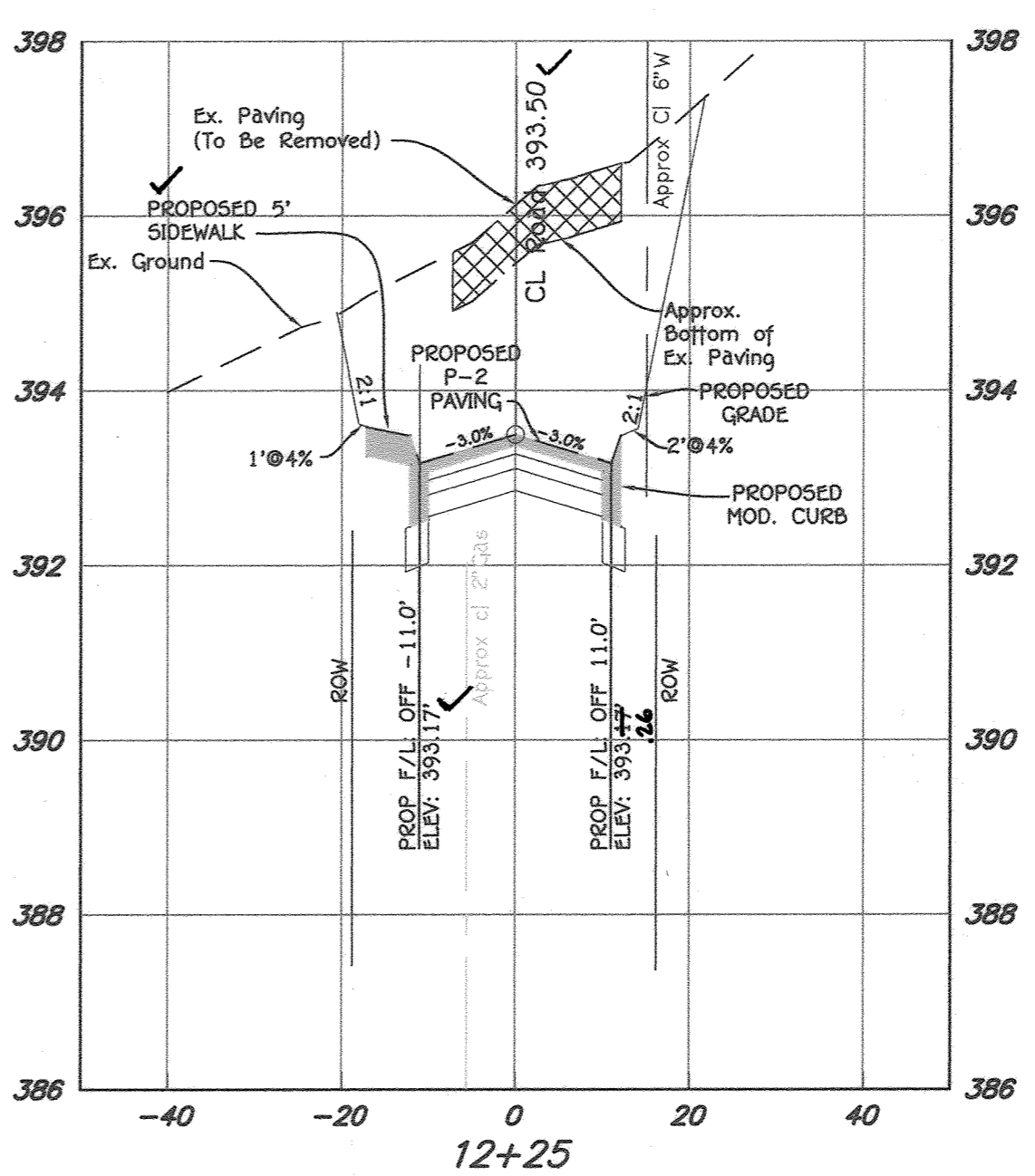
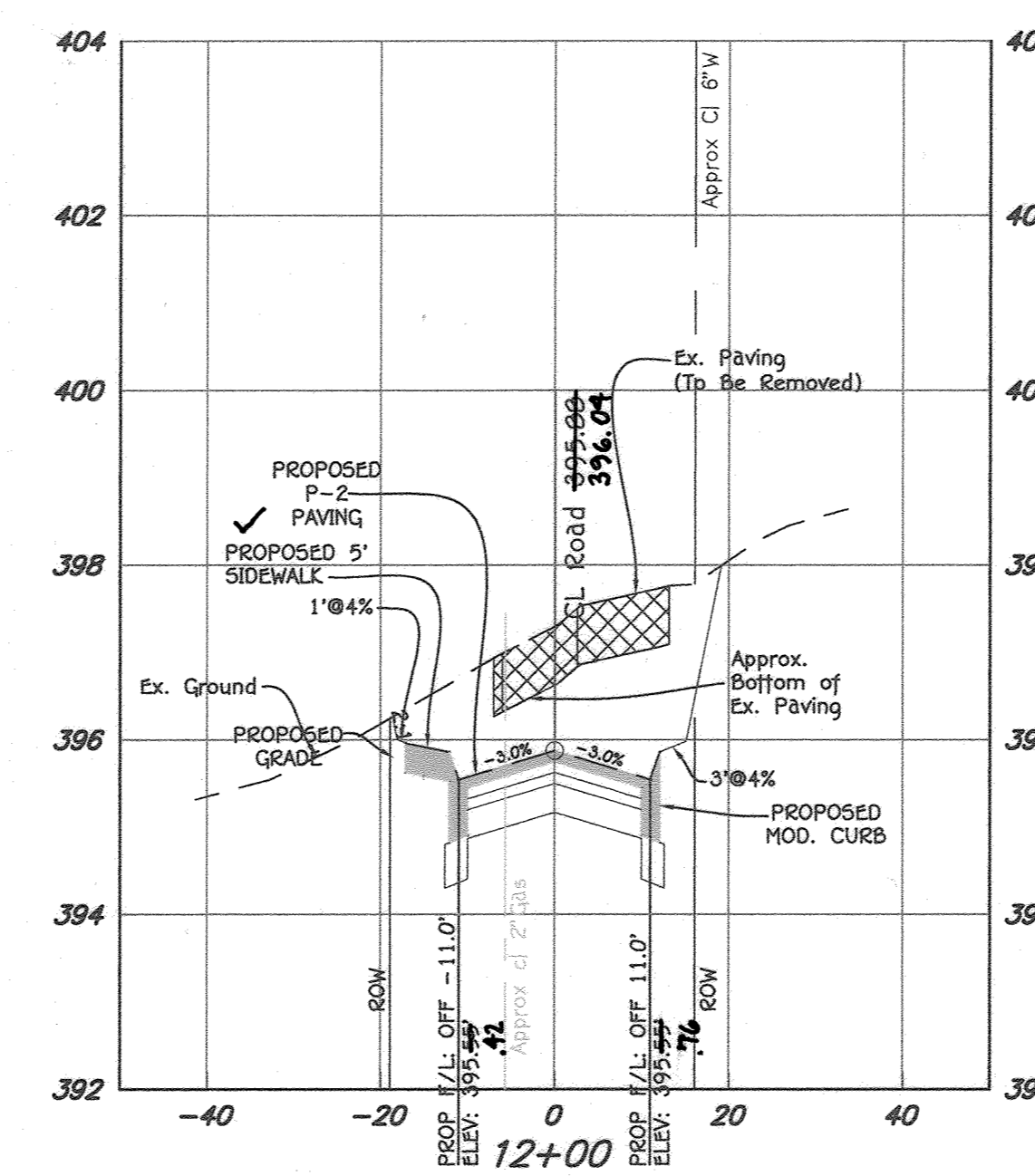
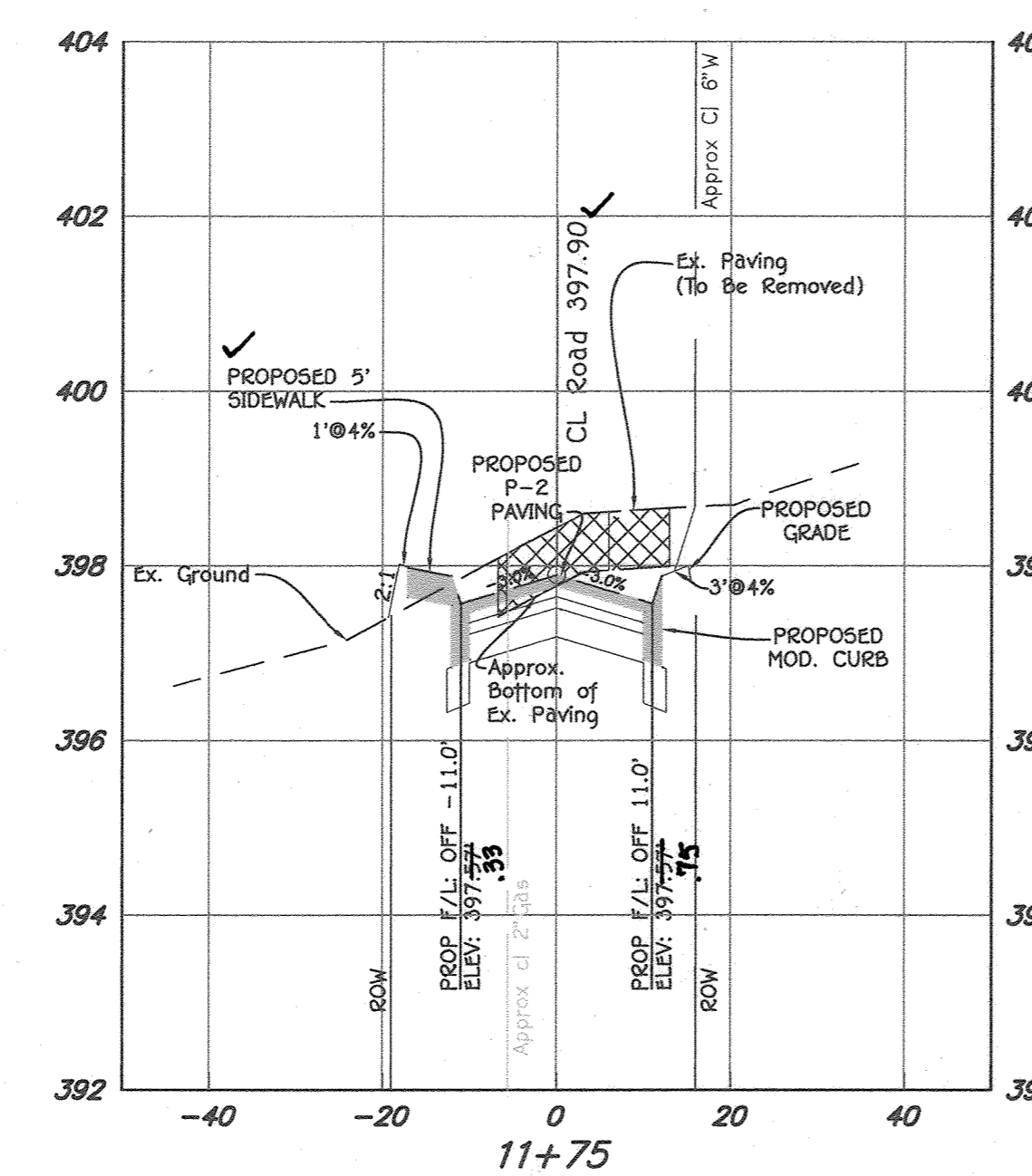
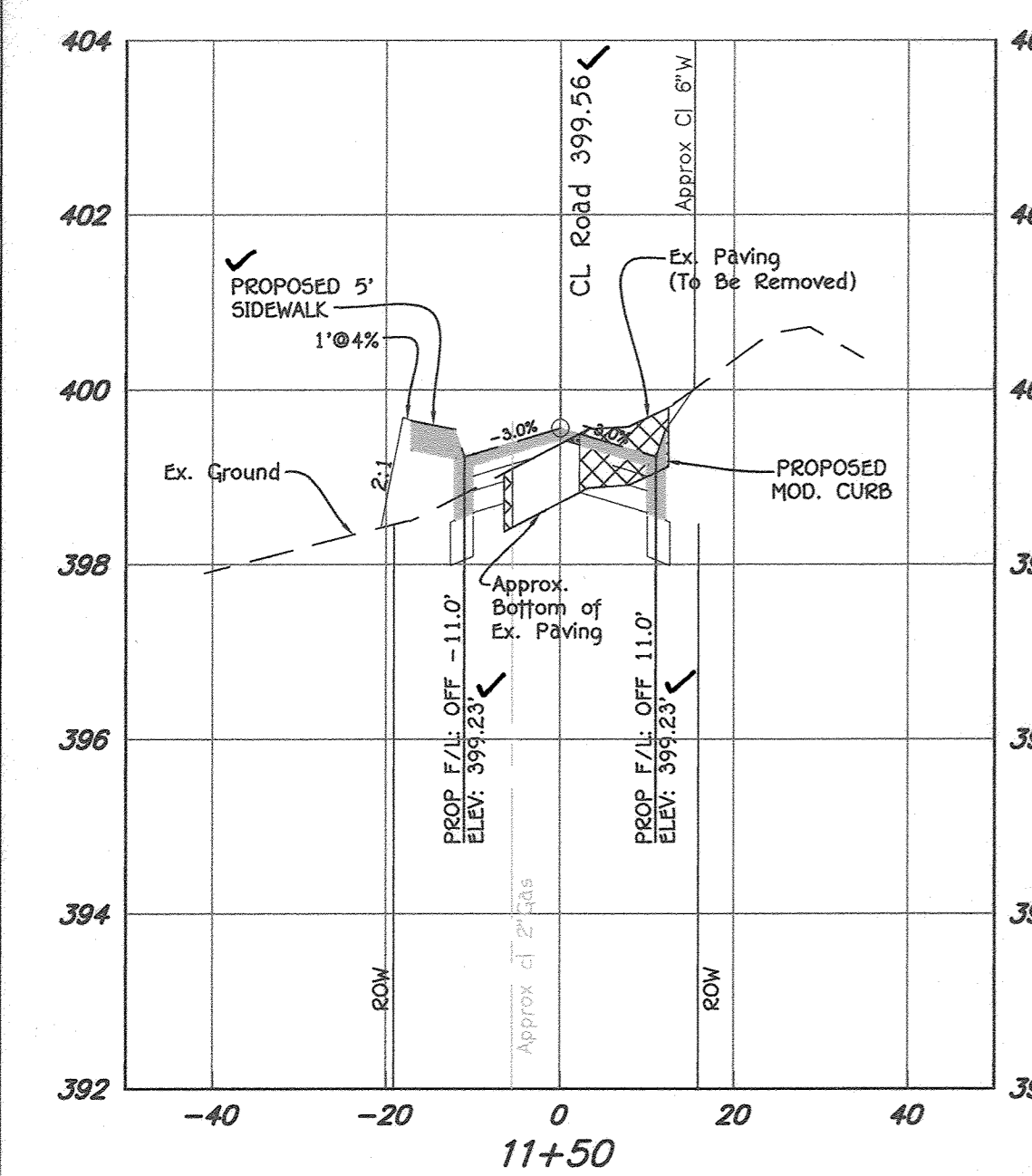
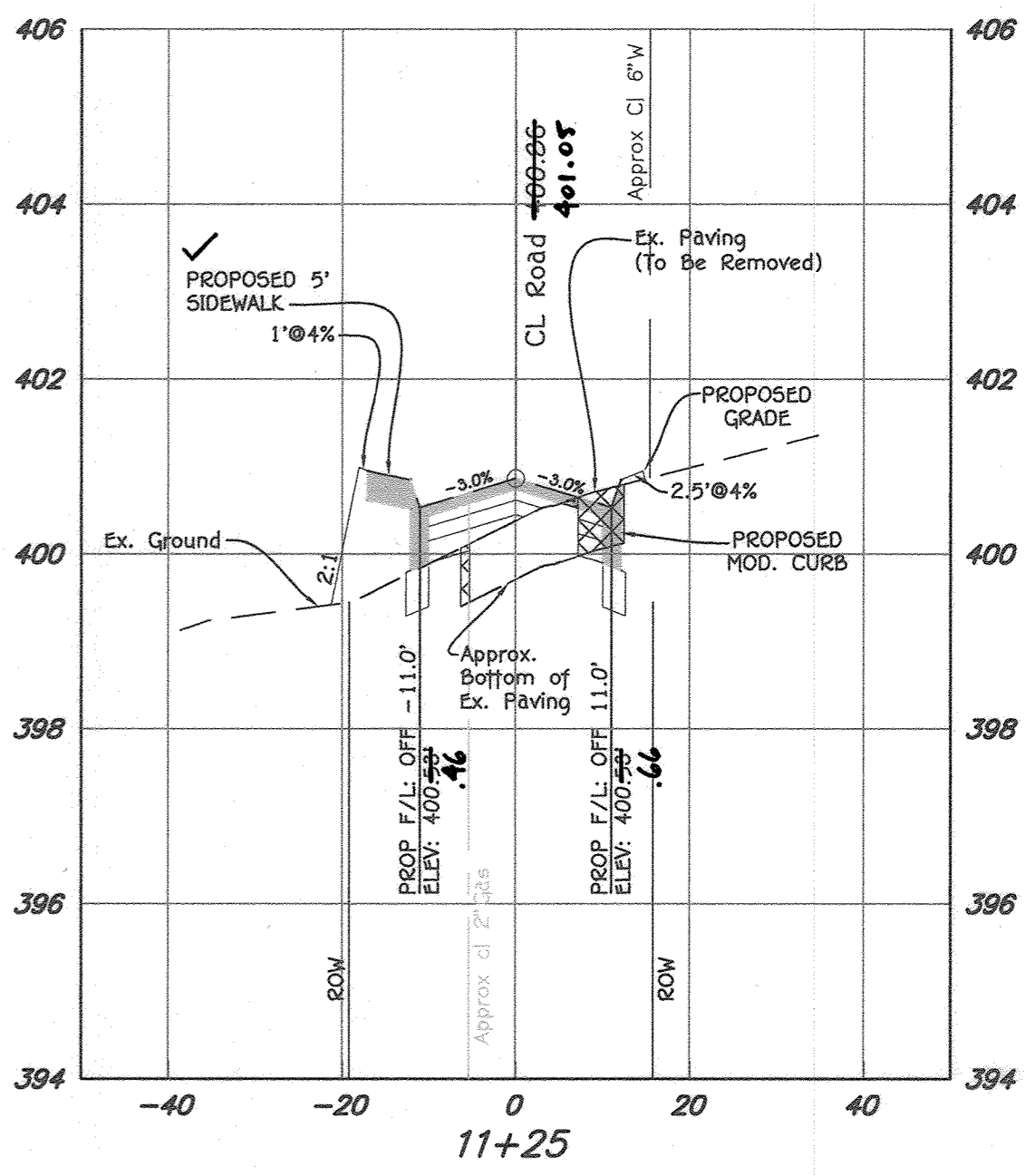
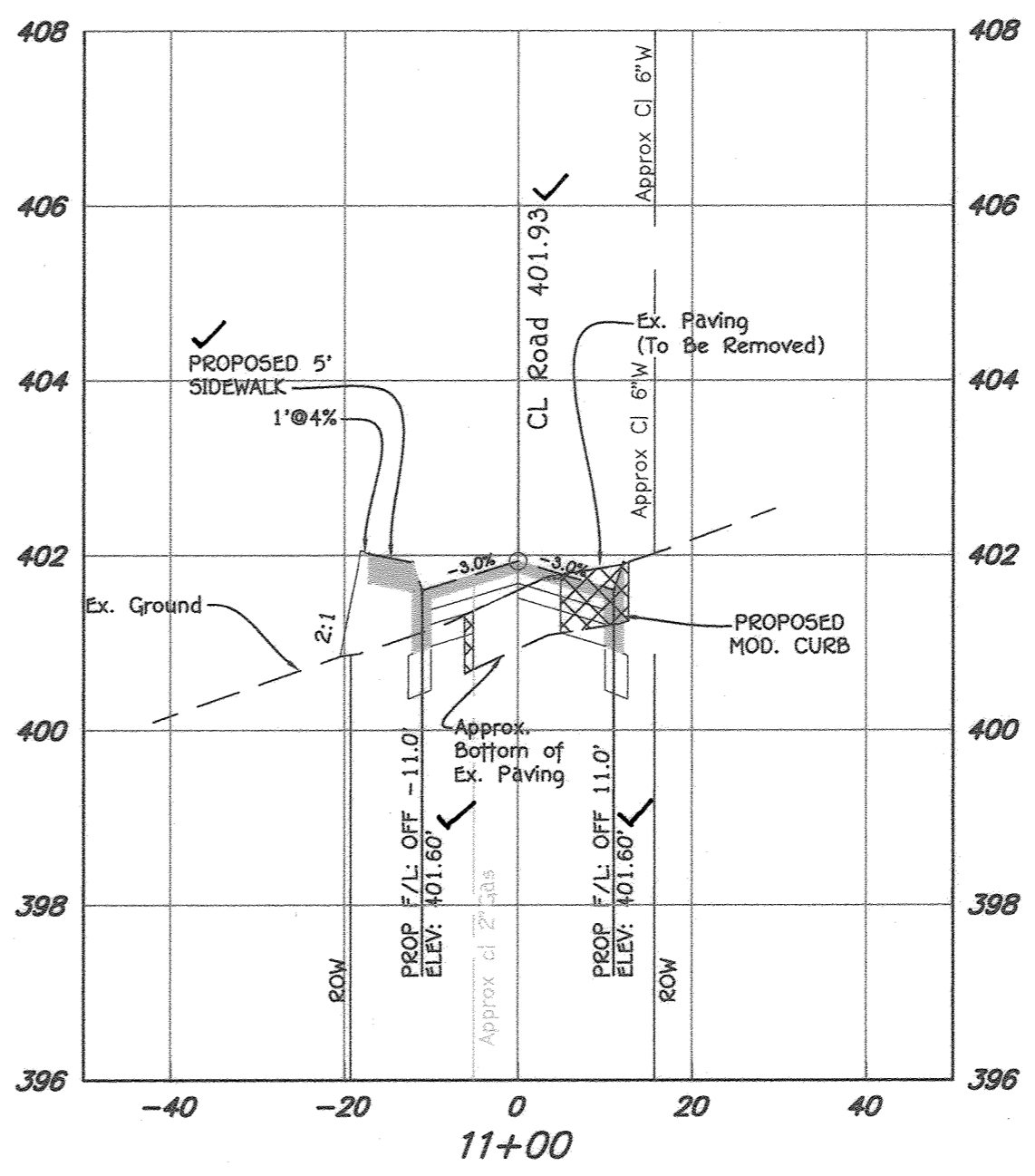
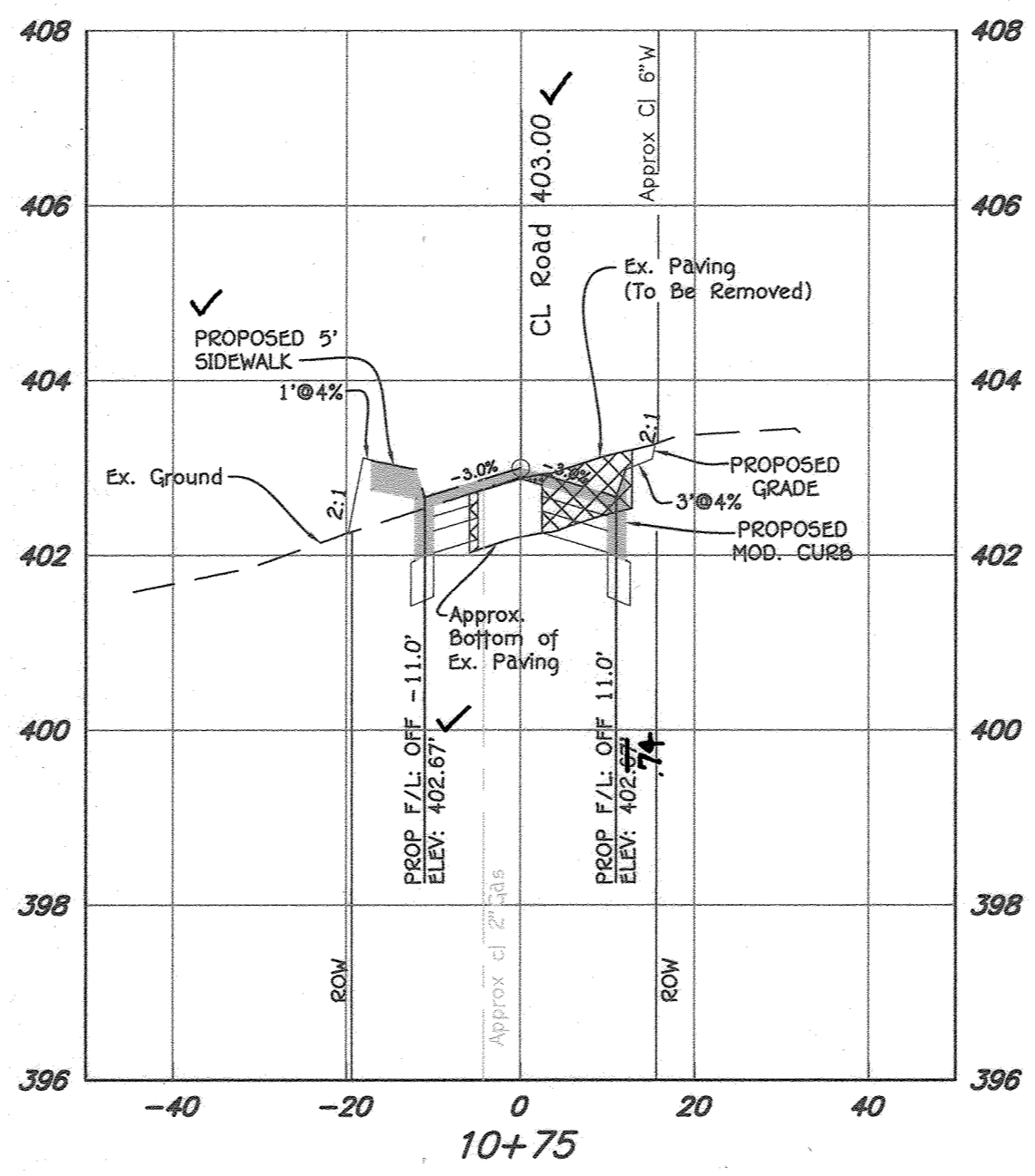
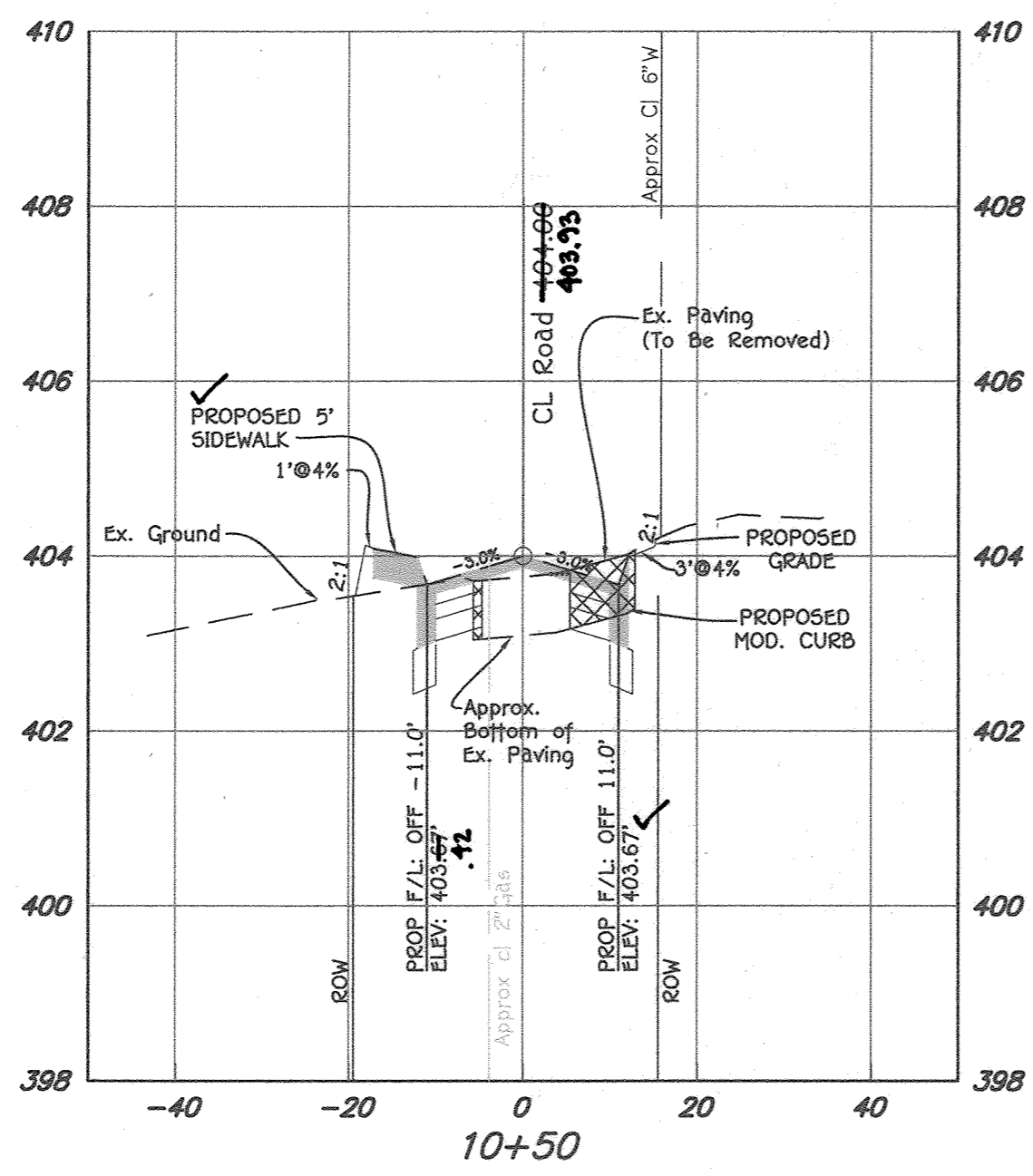
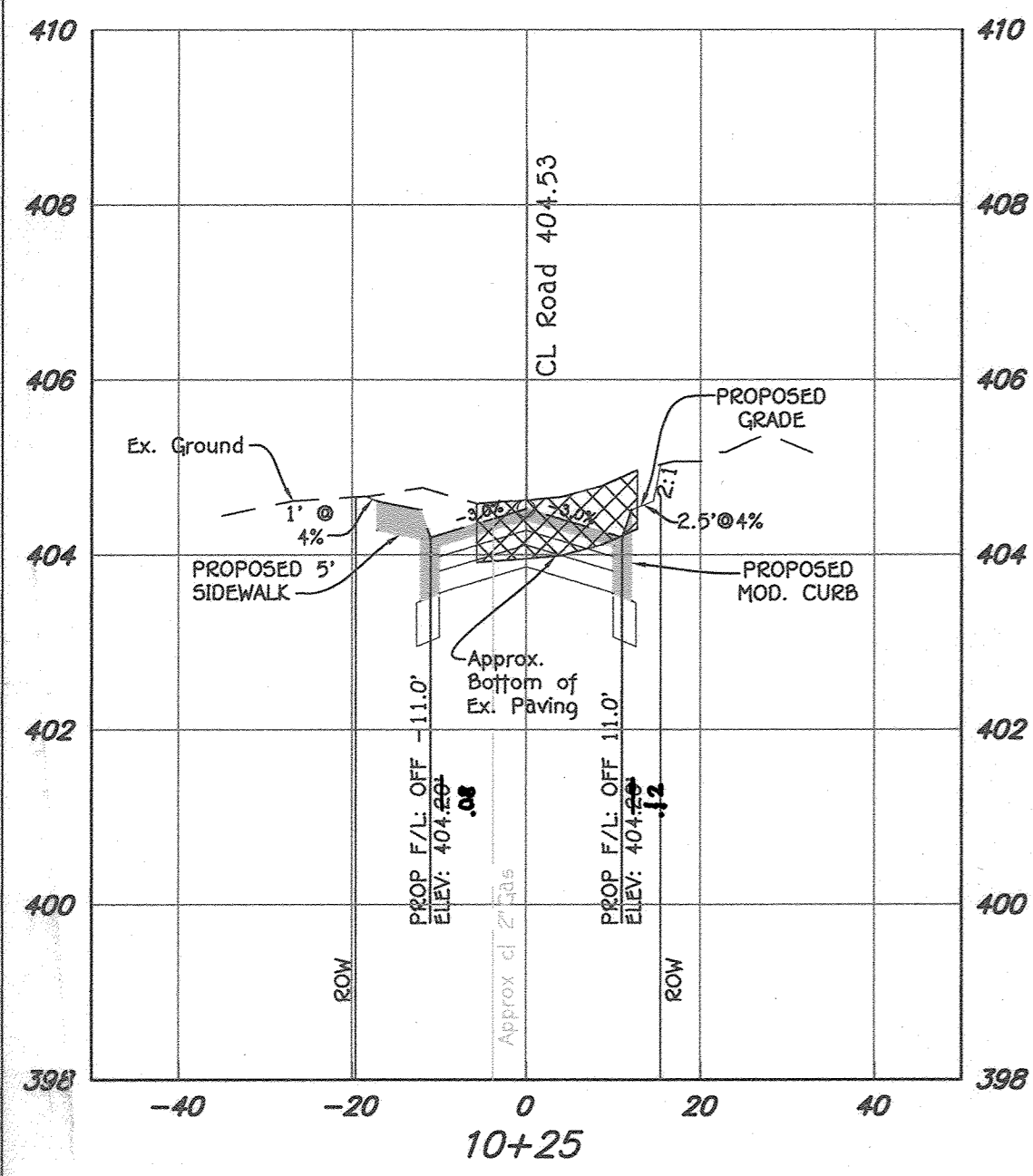


OWNER
 HOWARD COUNTY, MARYLAND
 3430 COURT HOUSE DRIVE
 ELLICOTT CITY, MD
 410-313-4401

DEVELOPER
 TERRY'S PLACE DEVELOPMENT, LLC
 C/O DAVE WOESSNER
 309 MAGOTHY ROAD
 SEVERNA PARK, MD 21146
 410-461-0837

AS-BUILT CERTIFICATION
 I hereby certify, by my seal, that to the best of my knowledge and belief that the facilities shown on the plan were constructed as shown on this "AS-BUILT" plan meet the approved plans and specifications.
 PAUL GERARD CRANWALLGH #27020
 Date: 1/29/20

COOKS LANE CROSS-SECTIONS
COOKS LANE
 PREVIOUS FILE NUMBERS: P5048, F-80-092, & 5-17-006
 ZONED: R-ED
 TAX MAP NO.: 24 GRID NO.: 18
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: MAY, 2021
 AS-BUILT SHEET 14 OF 19



CROSS SECTION-COOKS LANE

SCALE: HORIZ. 1" = 20'
VERT. 1" = 2'

AS-BUILT CERTIFICATION
I hereby certify by my seal that to the best of my knowledge and belief that the facilities shown on this plan were constructed as shown on this "As-Built" plan meet the approved plans and specifications.
Paul Gerard Cavanaugh
Date: 6/12/2024
PAUL GERARD CAVANAUGH #27020

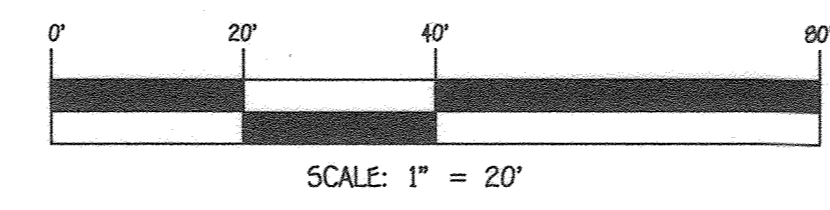


Approved: Department Of Planning And Zoning
Chief, Division Of Land Development
Date: 7.14.21
Approved: Howard County Department Of Public Works
Chief, Bureau Of Highways
Date: 07/02/2021

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 461-2995



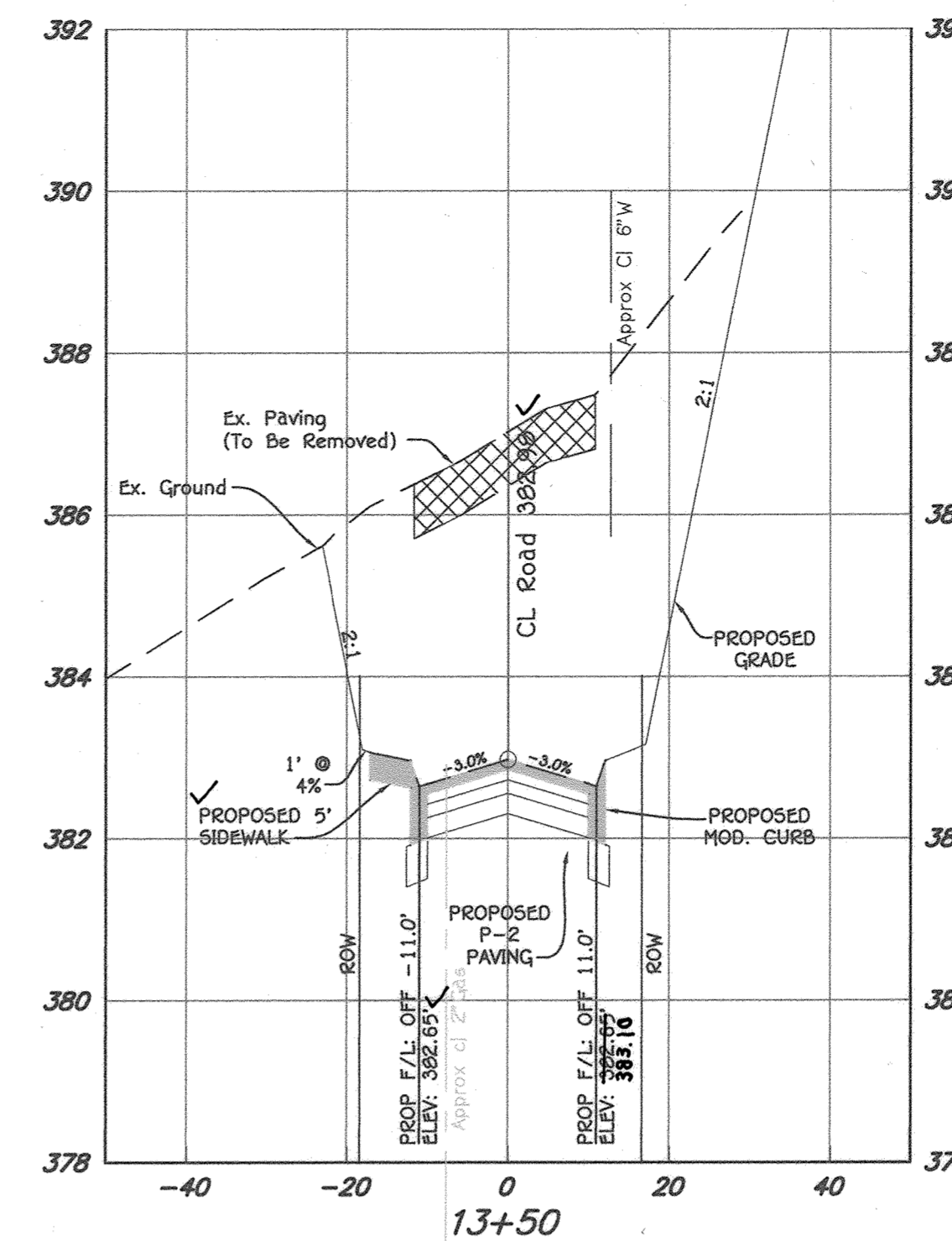
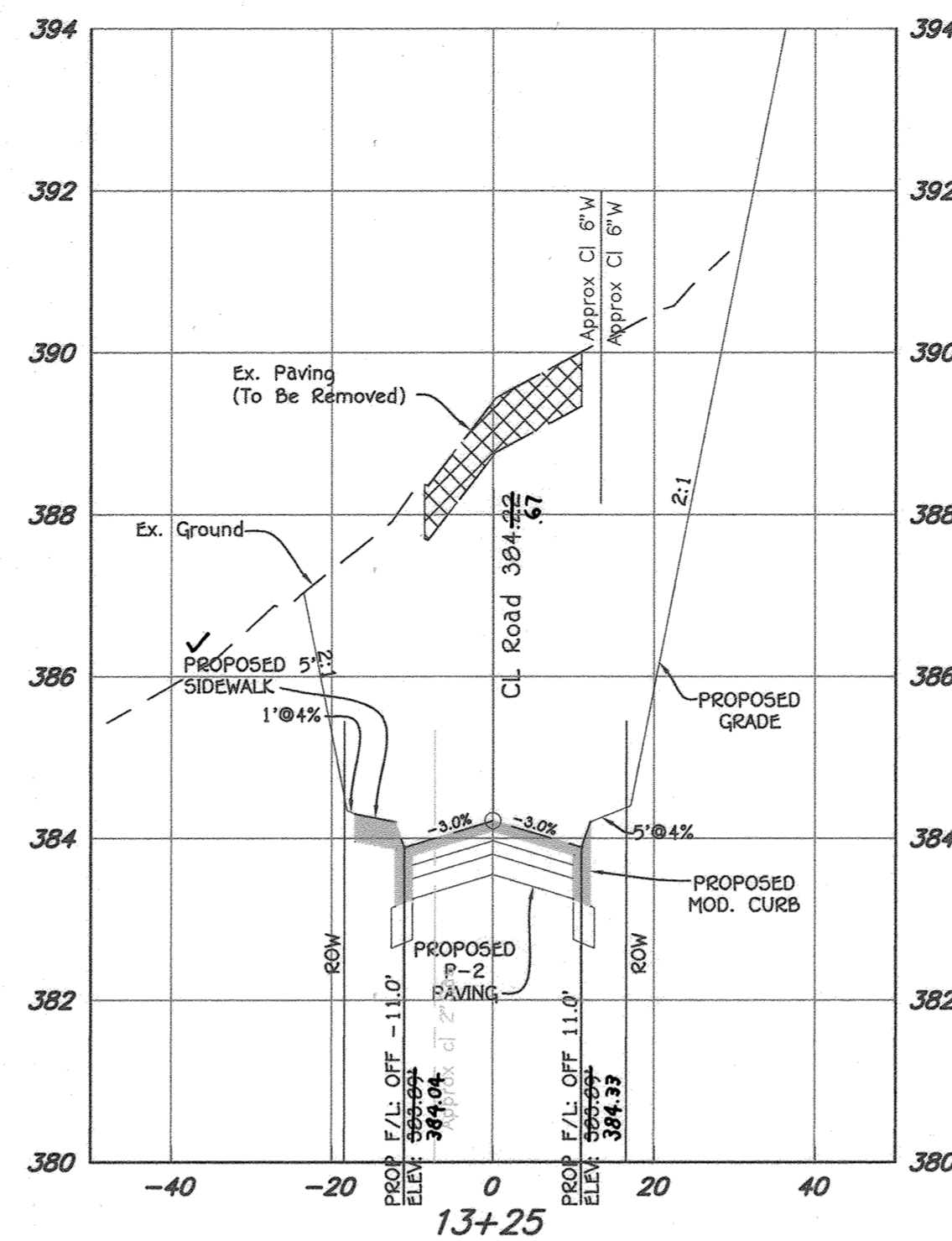
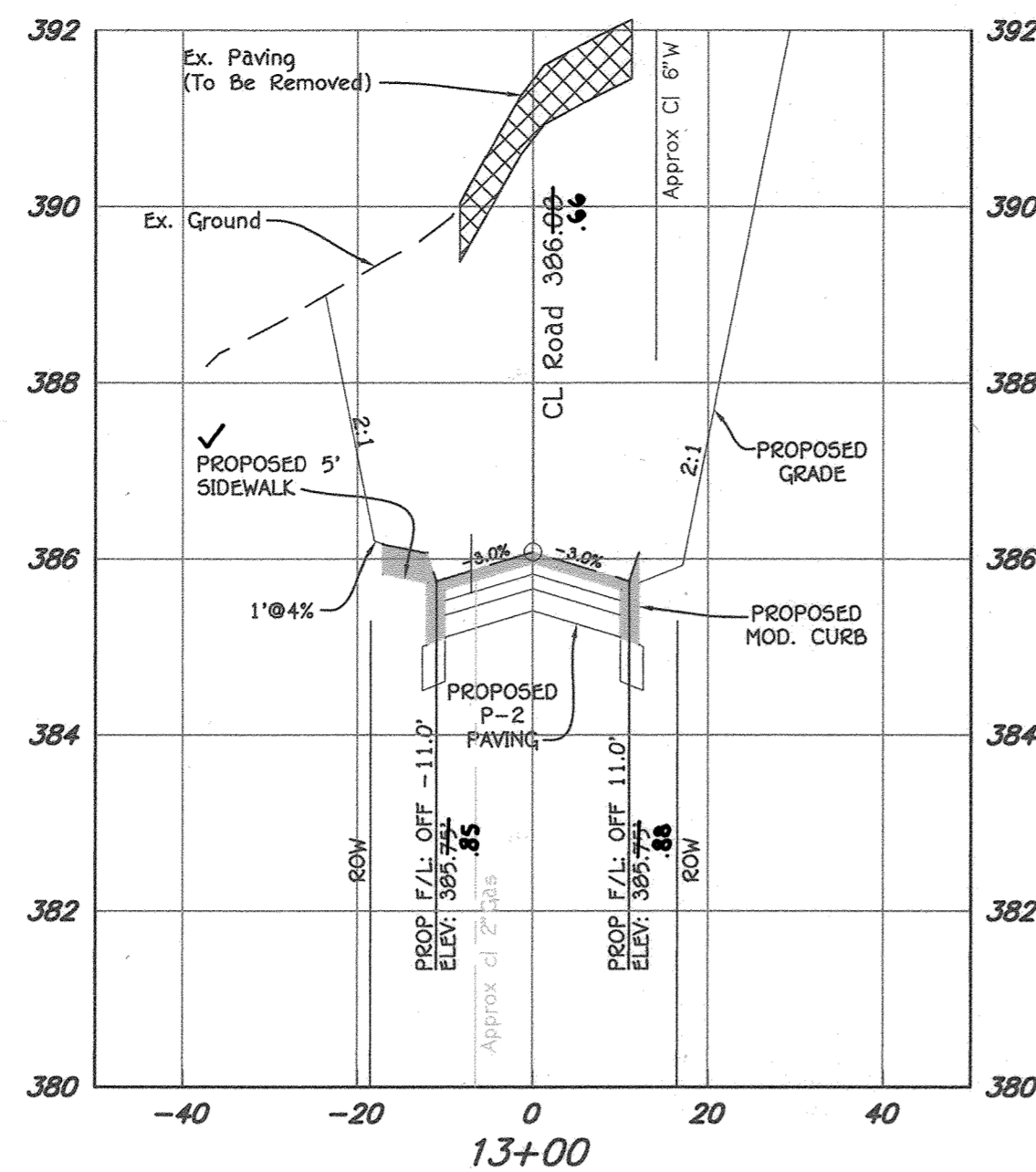
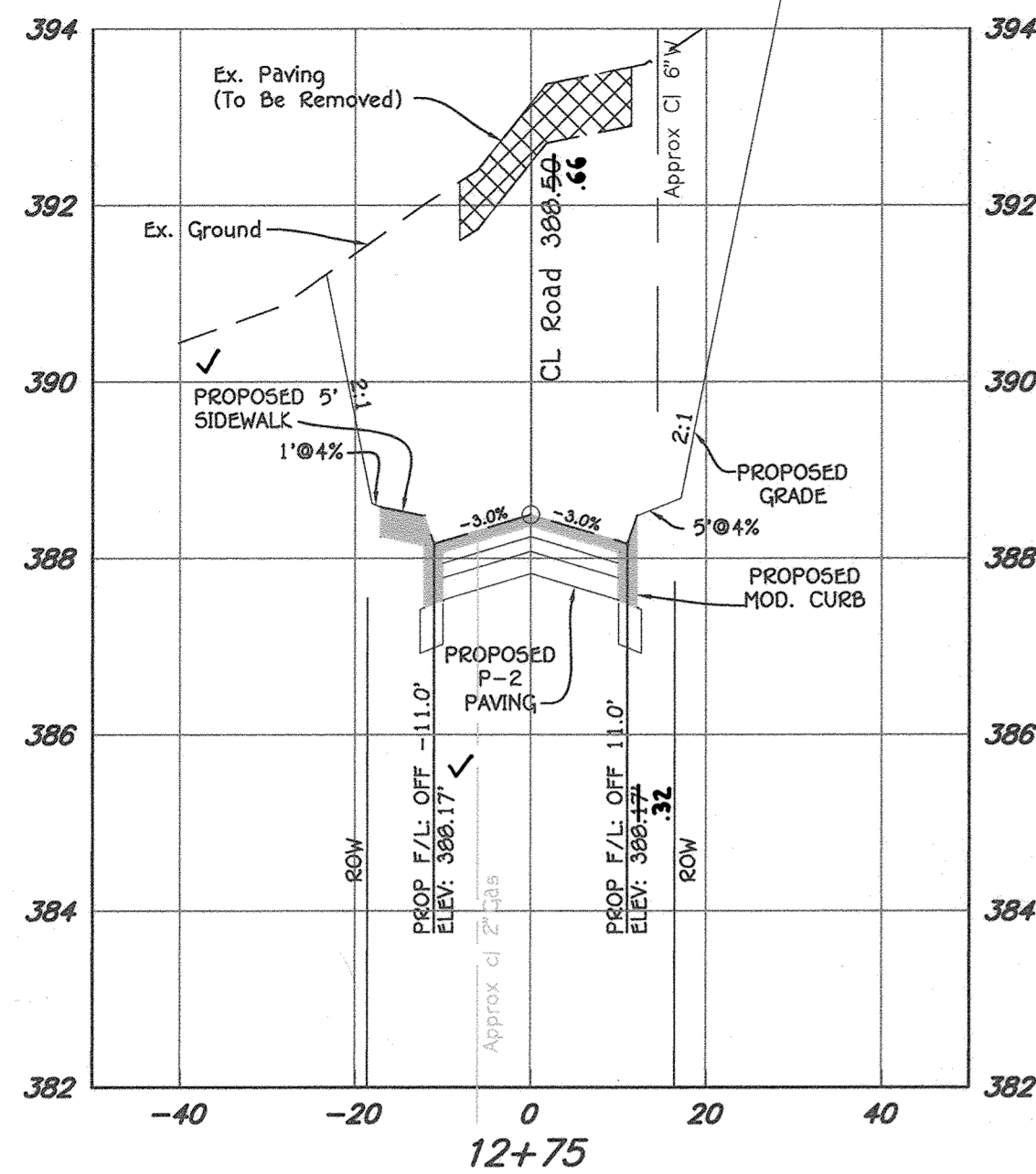
PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/21.
Frank John Mankowski II
6/23/21



OWNER
HOWARD COUNTY, MARYLAND
3430 COURT HOUSE DRIVE
ELLCOTT CITY, MD
410-313-4401

DEVELOPER
TERRY'S PLACE DEVELOPMENT, LLC
C/O DAVE WOESSNER
309 MCGOY ROAD
SEVERNA PARK, MD 21146
410-461-0837

COOKS LANE CROSS-SECTIONS
COOKS LANE
PREVIOUS FILE NUMBERS: P5048, F-80-092, & 5-17-006
ZONED: R-ED
TAX MAP NO.: 24 GRID NO.: 18
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: MAY, 2021
AS-BUILT SHEET 15 OF 19



CROSS SECTION-COOKS LANE

SCALE: HORIZ. 1" = 20'
VERT. 1" = 20'



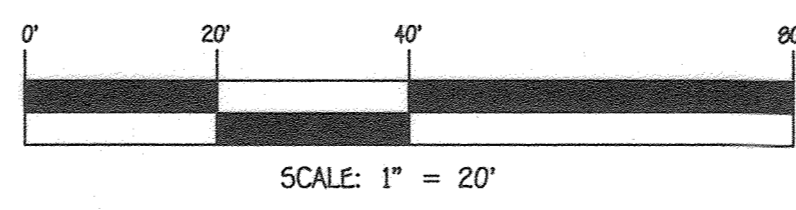
AS-BUILT CERTIFICATION
I hereby certify, by my seal, that to the best of my knowledge and belief that the facilities shown on the plan were constructed as shown on this "AS-BUILT" plan meet the approved plans and specifications.
Paul Gerard Cavanaugh
Date: Jan 2, 2024
PAUL GERARD CAVANAUGH #2709

Approved: Department Of Planning And Zoning
Chief, Division Of Land Development
Date: 7-14-21
Approved: Howard County Department Of Public Works
Chief, Bureau Of Highways
Date: 07/02/2021

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 461-2895



PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/21.
Frank John MacLennan II
Date: 5/23/21



OWNER
HOWARD COUNTY, MARYLAND
3430 COURT HOUSE DRIVE
ELLICOTT CITY, MD
410-313-4401

DEVELOPER
TERRY'S PLACE DEVELOPMENT, LLC
C/O DAVE WOESSNER
308 MAGOTHY ROAD
SEVERNA PARK, MD 21146
410-461-0837

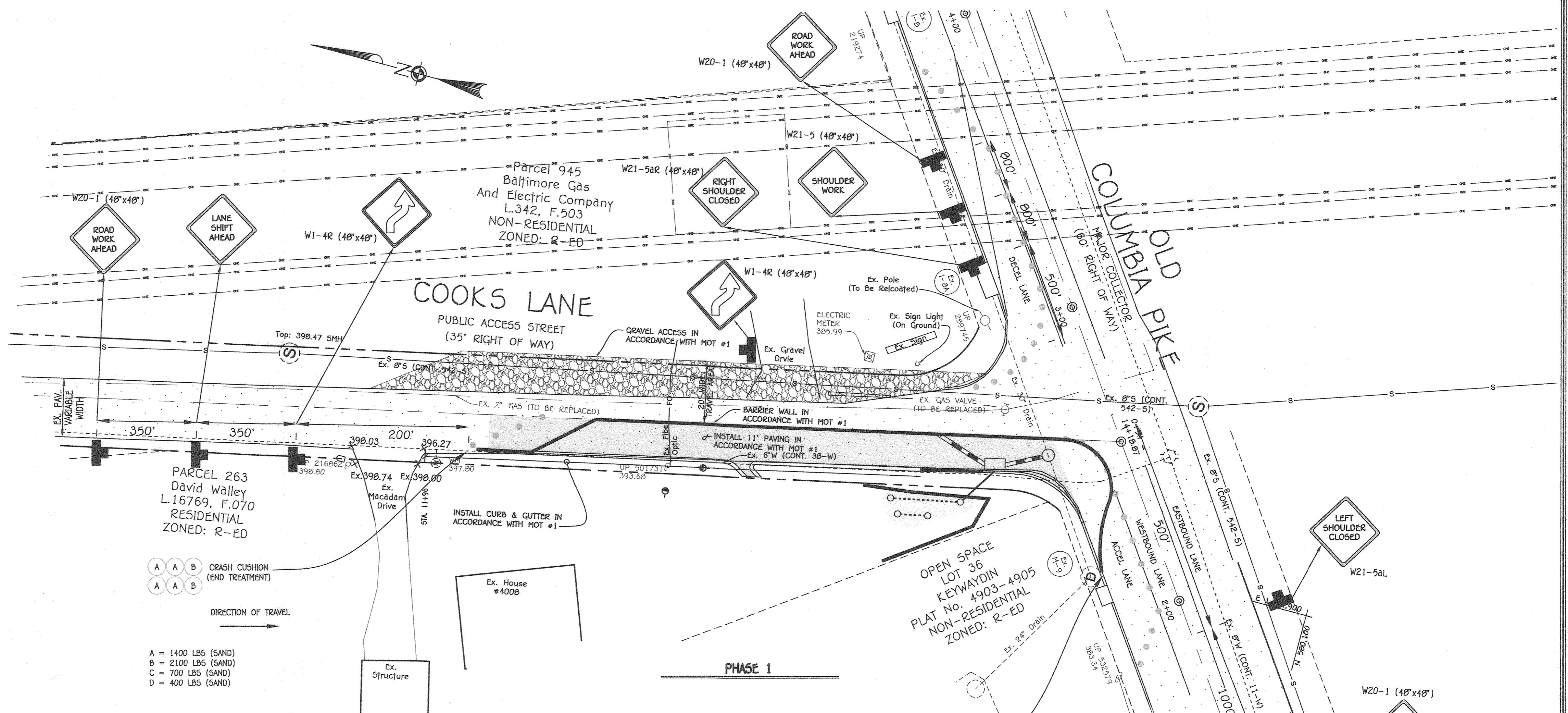
COOKS LANE CROSS-SECTIONS
COOKS LANE
PREVIOUS FILE NUMBERS: P5040, F-80-092, & 5-17-006
ZONED: R-ED
TAX MAP NO.: 24 GRID NO.: 1B
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: MAY, 2021
AS-BUILT SHEET 16 OF 17

General Notes:

- Prior to beginning any work, Howard County - Traffic Engineering Division (Office Phone: 410.313.2430) shall be notified 48 hours in advance to schedule a field inspection of the traffic control devices.
- During a regular work week (Monday - Friday), no work shall be permitted in Cooks Lane or Old Columbia Pike intersection between 4:00 PM and 9:00 AM. Additionally, no work will be permitted on Saturdays, Sundays, or holidays.
- All construction and materials for the traffic control devices shall be in accordance with the standards contained in the latest edition of the State of Maryland Manual on Uniform Traffic Control Devices.
- Travel lanes shall be a minimum of 10 feet in width. When only one lane is open, flaggers and the appropriate signing shall be provided. Cooks Lane to be opened to full operation at night with a minimum 20' of travel lanes (10' lane in either direction). During working hours, flaggers and signage will remain in place until area is open for full operation.
- If a drop-off measure greater than 4", a barrier or 2:1 slope of compacted "crusher run" stone gravel shall be provided.
- Pavement disruptions of 1" or greater shall be ramped with a beveled edge of 4 horizontal to one vertical (4:1).
- All open trenches shall be closed at the end of each day. If steel plates are to be used, appropriate signing will be required. Steel plates must be pinned and recessed in accordance with Howard County standards.
- Contractor shall install "CAUTION STEEL PLATES AHEAD" signs in advance of steel plate bridging.
- At the end of the workday, all temporary signs that do not apply shall be covered or removed.
- Channeling devices and temporary striping shall be removed as soon as practical.
- All traffic control devices shall be kept in their proper position and promptly repaired, replaced, or cleaned, as necessary, to preserve their appearance and continuity.
- Access shall be provided to all existing driveways at all times. For driveways where the property owner has not given permission to construct an apron outside of public right-of-way, steel plate will be provided within the right-of-way for continued access during concrete curing time. Contractor shall coordinate all driveway construction with the property owner. All cones and flagmen shall be moved accordingly as construction progresses.
- All construction signing shall be in accordance with the typical sign placement and shall not obstruct existing Traffic Control Devices.
- The contractor's and workers' vehicles must be parked in a manner as to not obstruct or impeded existing sight distance; traffic signage; or traffic control devices.

Cooks Lane Maintenance Of Traffic

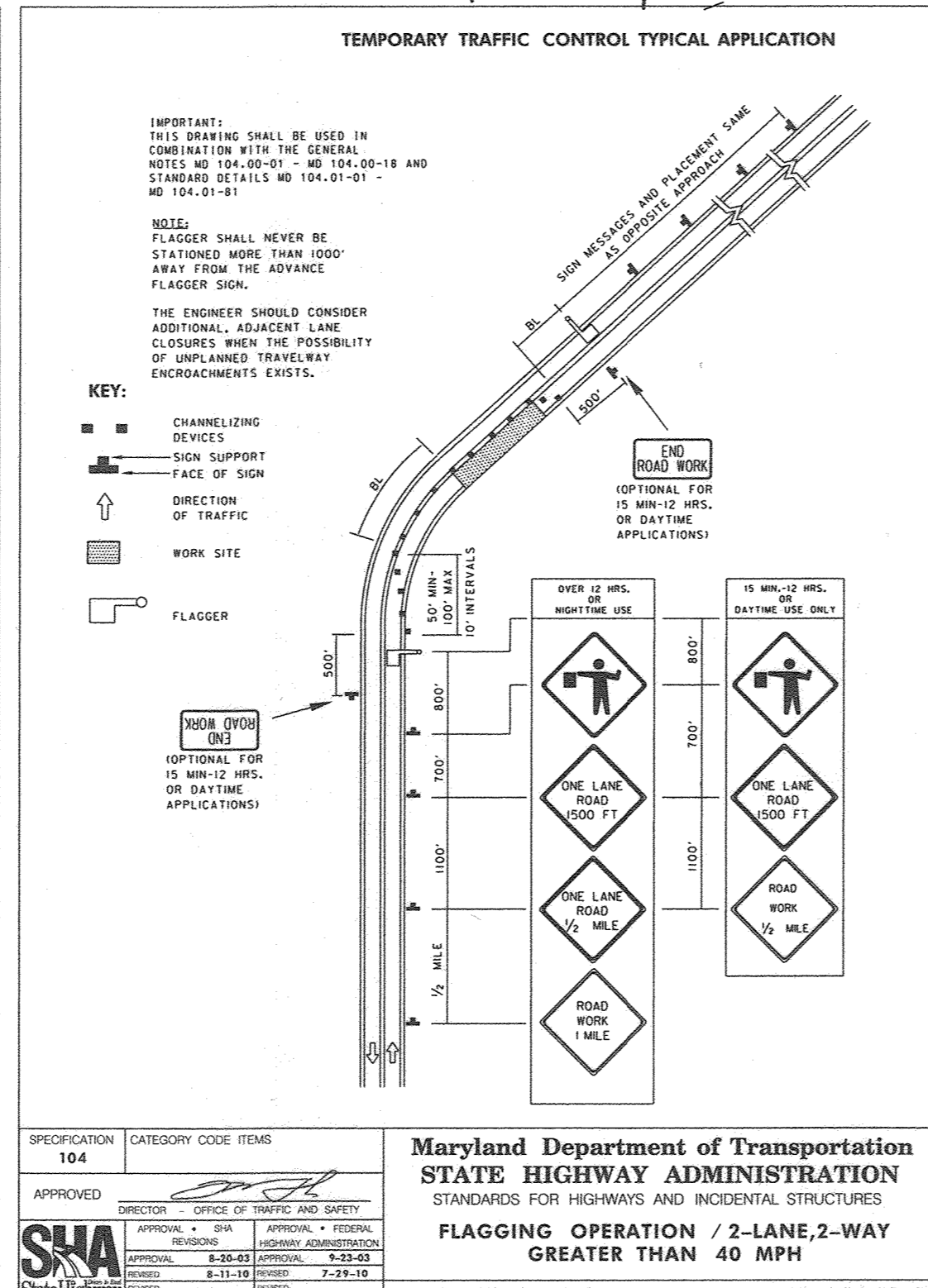
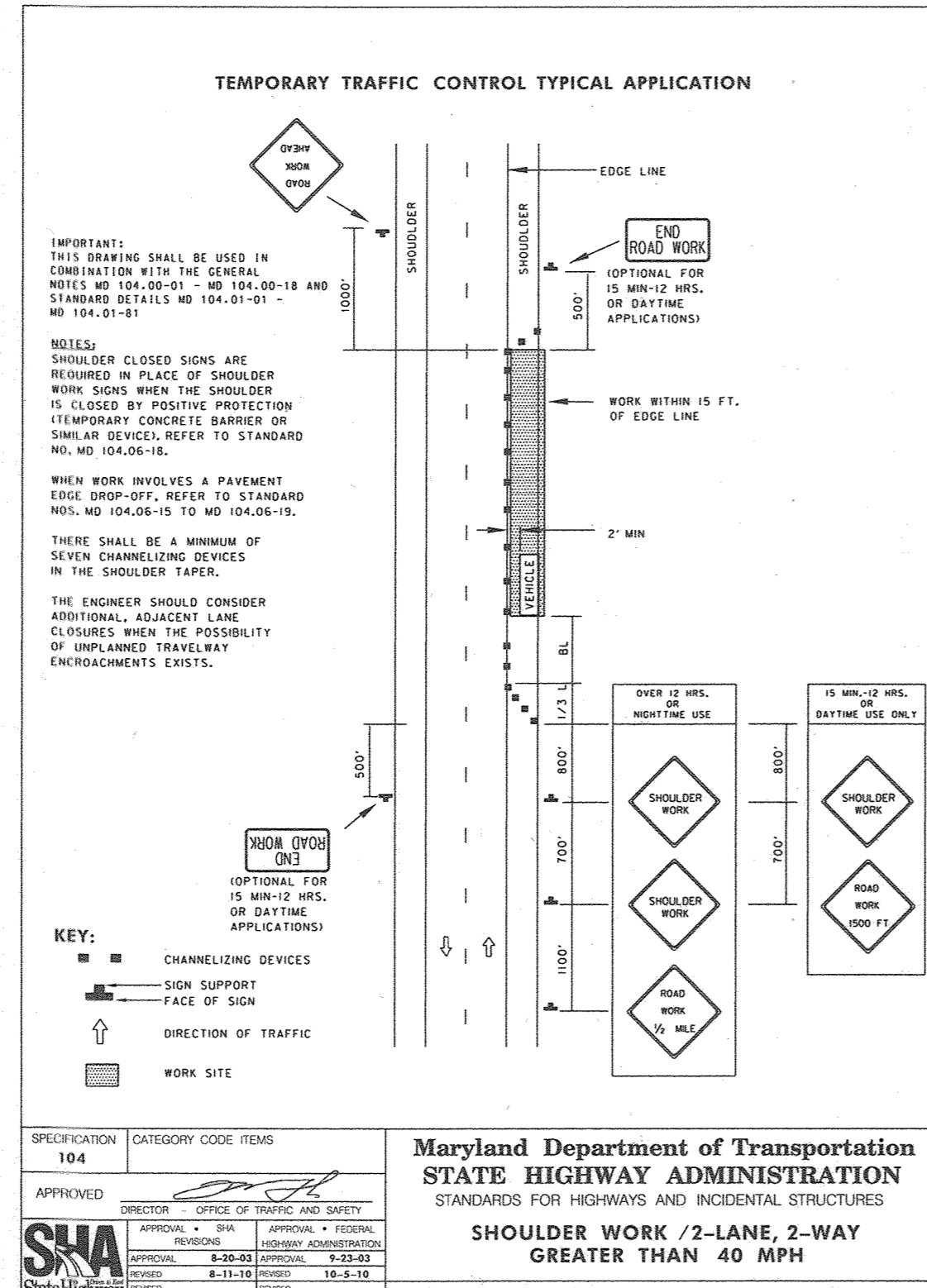
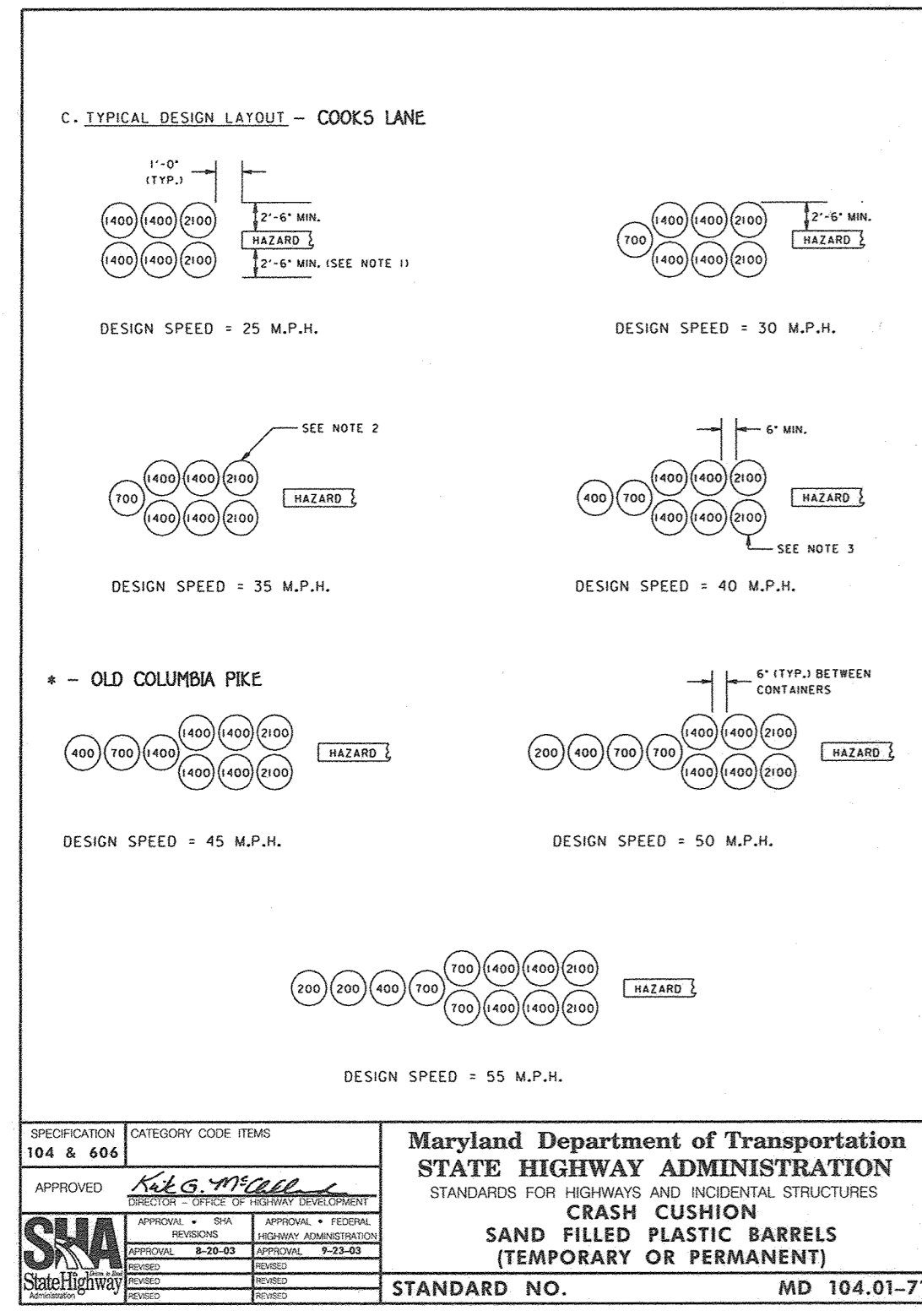
- Contractor to install traffic barriers from Sta. 12+15 to Sta. 13+95 and gravel area as shown on plan to create a 20' travel area (10' lane in either direction) to maintain continuous access to Old Columbia Pike. Proceed with grading and construction of western portion of roadway and utilities from Sta. 12+50 to intersection of Old Columbia Pike.
- After item 1 has been completed to base asphalt and while maintaining continuous access to private driveways, the contractor shall grade, install remaining utilities and mechanically stabilize Cooks Lane from Sta. 12+15 to +/- Sta. 6+00.
 - Install Modified Curb and Gutter as indicated and maintain access at existing drive locations.
 - For driveways where the property owners has given permission, provide Graded Aggregate Base with ramping to existing driveways and temporary access locations. With temporary access areas mechanically stabilized, install modified curb and gutter and concrete apron for existing drive.
 - For driveways where permission has not been obtained, provide Graded Aggregate Base with ramping (not to exceed 8%) to existing driveways within public right-of-way. Once area has been mechanically stabilized, install modified curb and gutter and concrete apron for existing drive. Provide steel plate within the right-of-way for continuous access during driveway apron curing time.
 - For driveways where the property owner has given permission, repair existing drive, remove temporary access, replace topsoil and vegetatively stabilize.
 - For driveways where permission has not been obtained, within the public right-of-way, repair existing drive, replace topsoil and vegetatively stabilize.
 - Complete Curb and gutter and base asphalt from Sta. 12+15 to +/- Sta. 6+00.



● TRAFFIC DRUM (CHANNELING)

DIRECTION OF TRAVEL

- A = 1400 LBS (SAND)
- B = 2100 LBS (SAND)
- C = 700 LBS (SAND)
- D = 400 LBS (SAND)

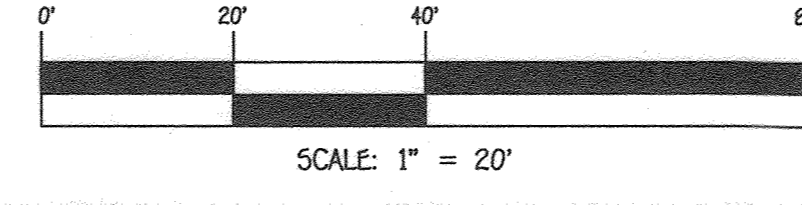


Approved: Department Of Planning And Zoning
 Chief, Division Of Land Development
 Chief, Development Engineering Division
 Approved: Howard County Department Of Public Works
 Chief, Bureau Of Highways

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2000



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/21.



OWNER
 HOWARD COUNTY, MARYLAND
 3430 COURT HOUSE DRIVE
 ELICOTT CITY, MD
 410-313-4401

DEVELOPER
 TERRY'S PLACE DEVELOPMENT, LLC
 C/O DAVE WOESSNER
 308 HATCHERY ROAD
 SEVERNA PARK, MD 21146
 410-461-0837



AS-BUILT CERTIFICATION
 Note: There is no "AS-Built" information provided on this sheet.
 Date: 5/2/21
 Paul George Canavan #21020

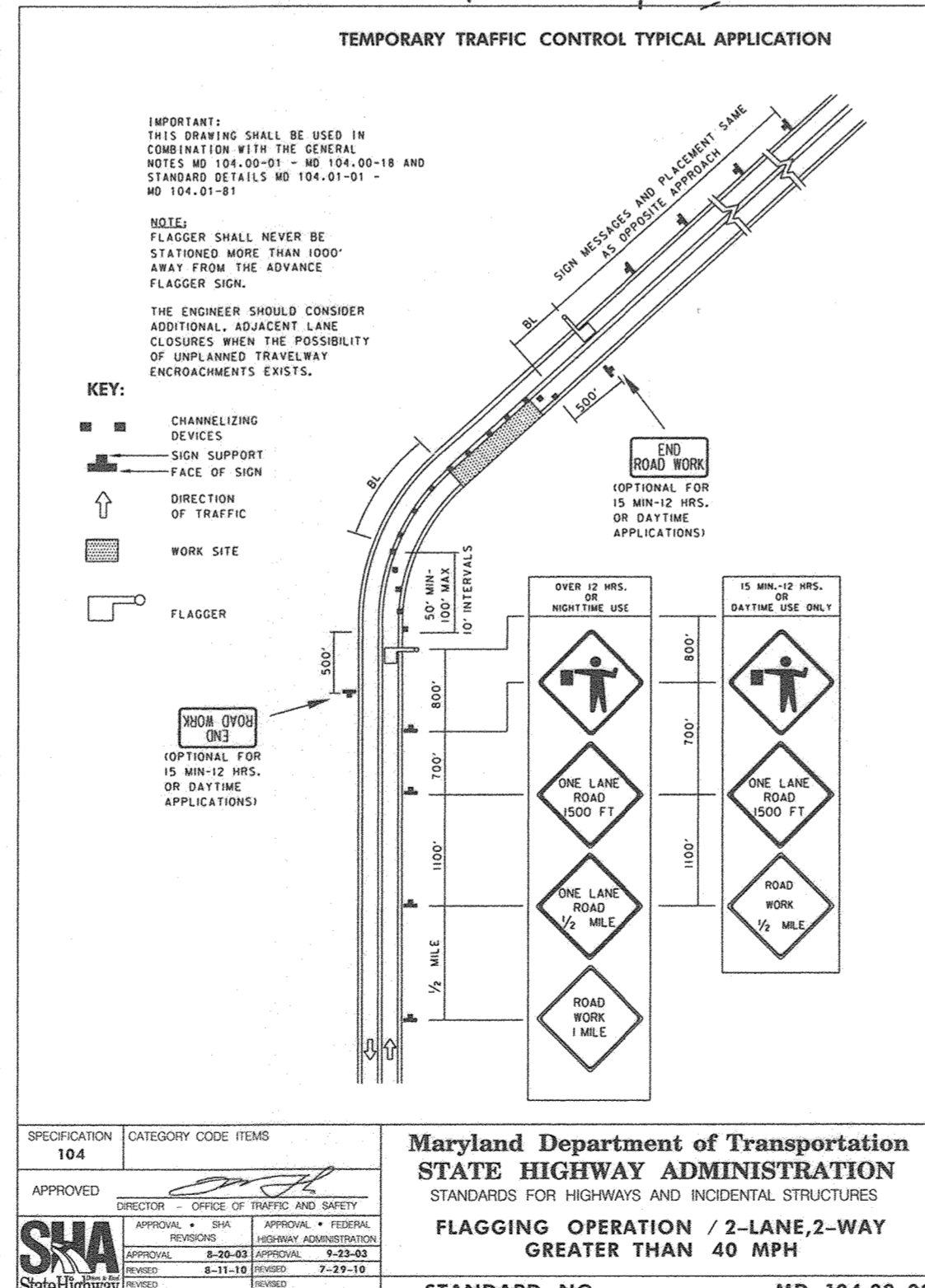
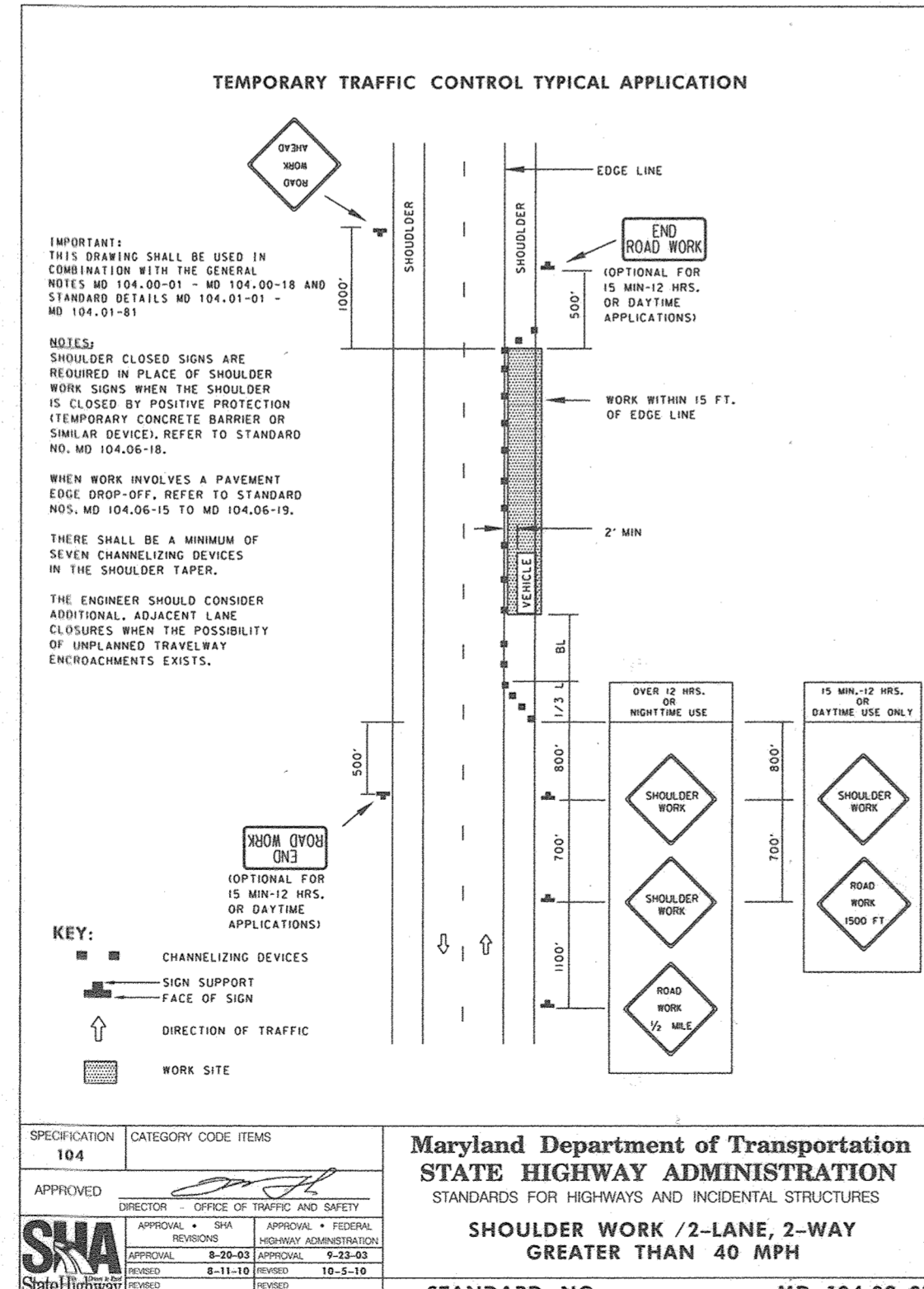
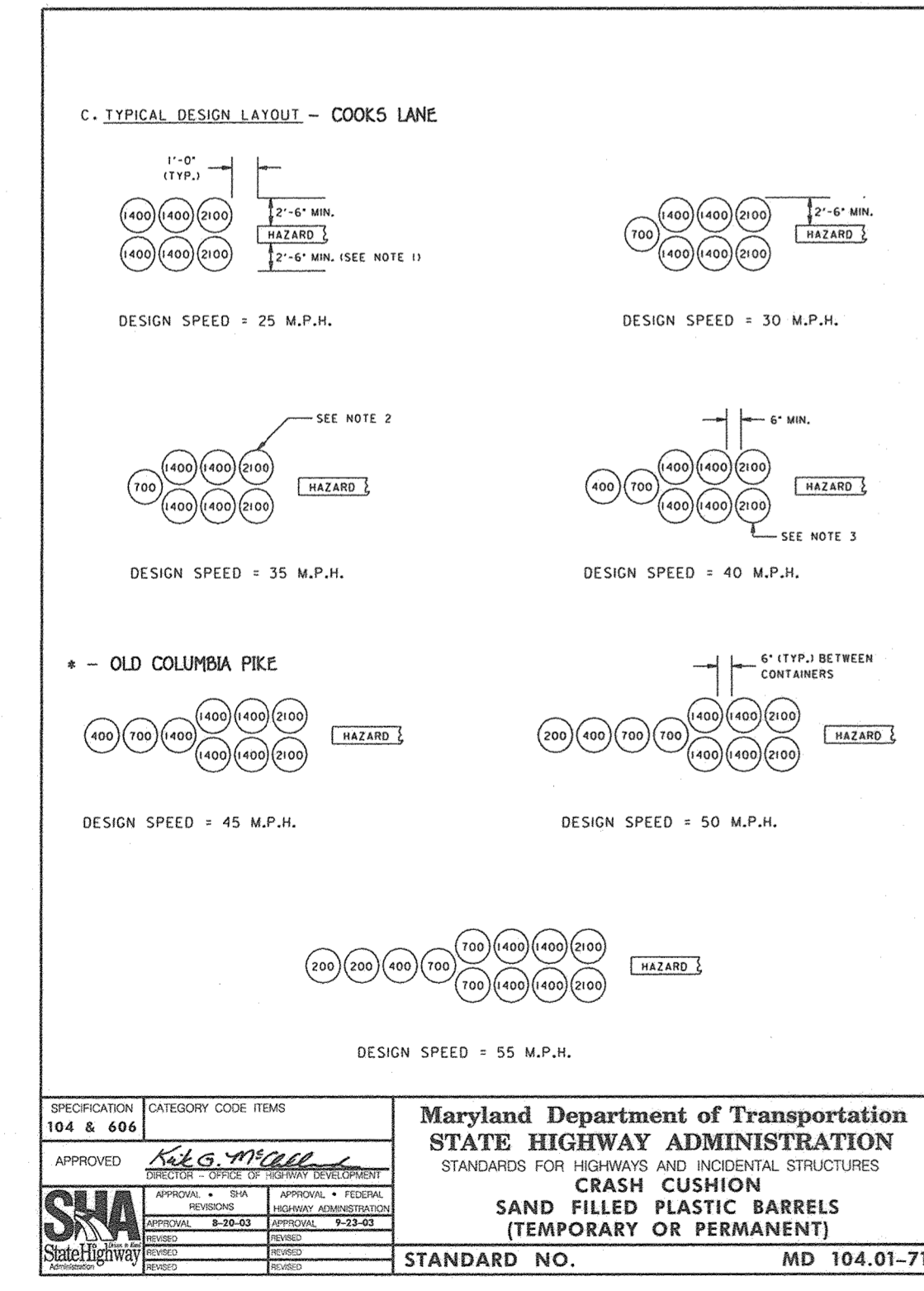
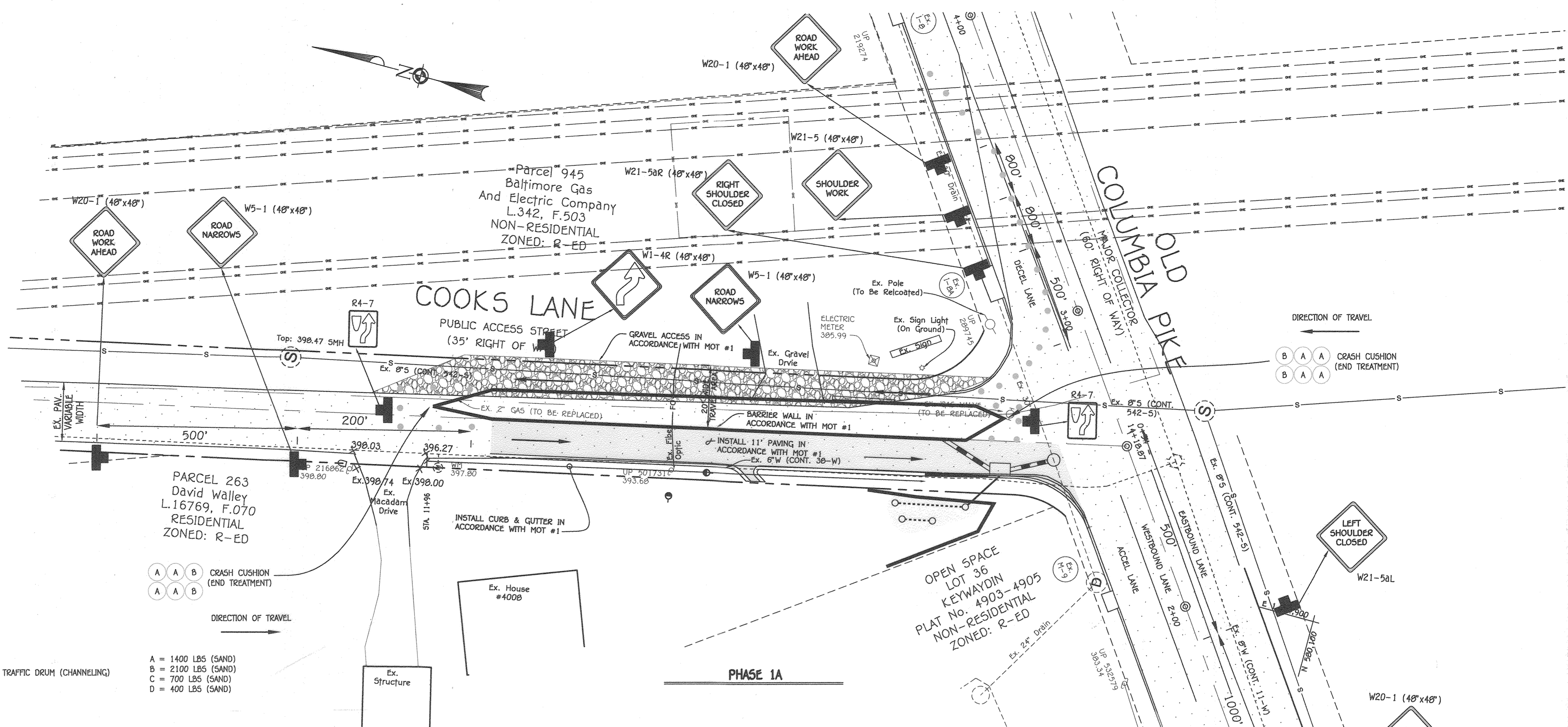
PHASE 1 TRAFFIC CONTROL COOKS LANE
 PREVIOUS FILE NUMBERS: P5048, F-80-092, & 5-17-006
 ZONED: R-ED
 TAX MAP NO.: 24 GRID NO.: 18
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: MAY, 2021
 SHEET 17 OF 19

General Notes:

- Prior to beginning any work, Howard County - Traffic Engineering Division (Office Phone: 410.313.2430) shall be notified 48 hours in advance to schedule a field inspection of the traffic control devices.
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- If a drop-off measures greater than 4', a barrier or 2:1 slope of compacted "crusher run" stone gravel shall be provided.
- Pavement disruptions of 1" or greater shall be ramped with a beveled edge of 4 horizontal to one vertical (4:1).
- All open trenches shall be closed at the end of each day. If steel plates are to be used, appropriate signing will be required. Steel plates must be pinned and recessed in accordance with Howard County standards.
- Contractor shall install "CAUTION STEEL PLATES AHEAD" signs in advance of steel plate bridging.
- At the end of the workday, all temporary signs that do not apply shall be covered or removed.
- Channeling devices and temporary striping shall be removed as soon as practical.
- All traffic control devices shall be kept in their proper position and promptly repaired, replaced, or cleaned, as necessary, to preserve their appearance and continuity.
- Access shall be provided to all existing driveways at all times. For driveways where the property owner has not given permission to construct an apron outside of public right-of-way, steel plates will be provided within the right-of-way for continued access during concrete curing time. Contractor shall coordinate all driveway construction with the property owner. All cones and flagmen shall be moved accordingly as construction progresses.
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Cooks Lane Maintenance Of Traffic

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- Complete Curb and gutter and base asphalt from Sta. 12+15 to +/- Sta. 6+00.



Approved: Department Of Planning And Zoning

Chief, Division Of Land Development
Date: 7/14/21

Approved: Howard County Department Of Public Works
Chief, Bureau Of Highways
Date: 07/02/2021

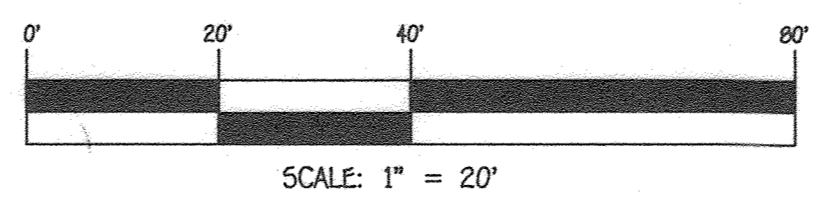
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 481-2999



PROFESSIONAL CERTIFICATION

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Frank John Dardarian II
6/23/21



AS-BUILT CERTIFICATION

Note: There is no "AS-BUILT" information provided on this sheet.

PAUL GERRARD CANNANUGH #27020
DATE: 6/23/21

OWNER
HOWARD COUNTY, MARYLAND
3430 COURT HOUSE DRIVE
ELLCOTT CITY, MD
410-313-4401

DEVELOPER
TERRY'S PLACE DEVELOPMENT, LLC
C/O DAVE WOESSNER
308 HOGOTHY ROAD
SEVERNA PARK, MD 21146
410-481-0937

PHASE 1A
TRAFFIC CONTROL
COOKS LANE

PREVIOUS FILE NUMBERS: P5048, F-80-092, & 5-17-006
ZONED: R-ED
TAX MAP NO.: 24 GRID NO.: 18
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: MAY, 2021
SHEET 18 OF 19

THERE IS NO AS-BUILT INFORMATION ON THIS SHEET

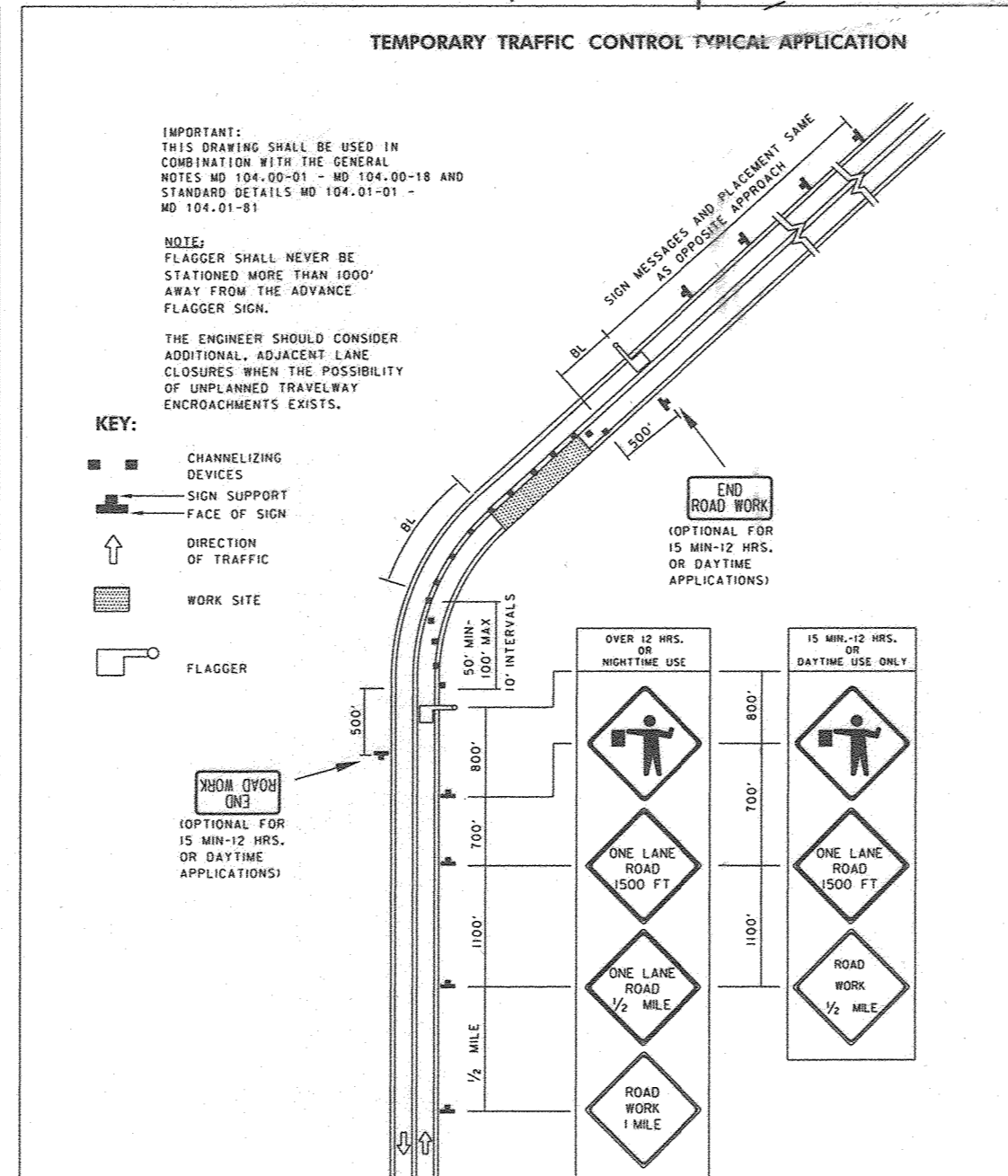
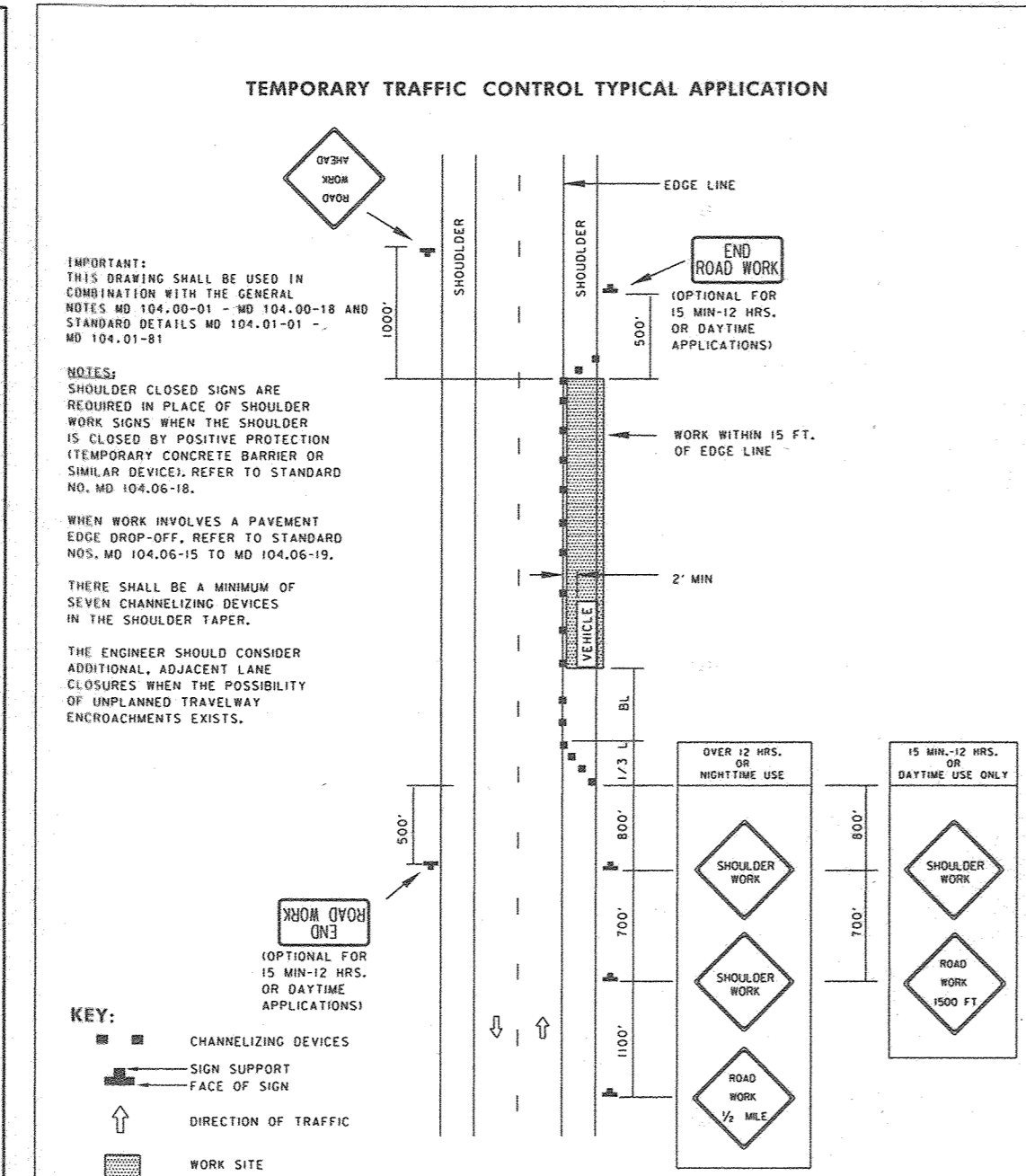
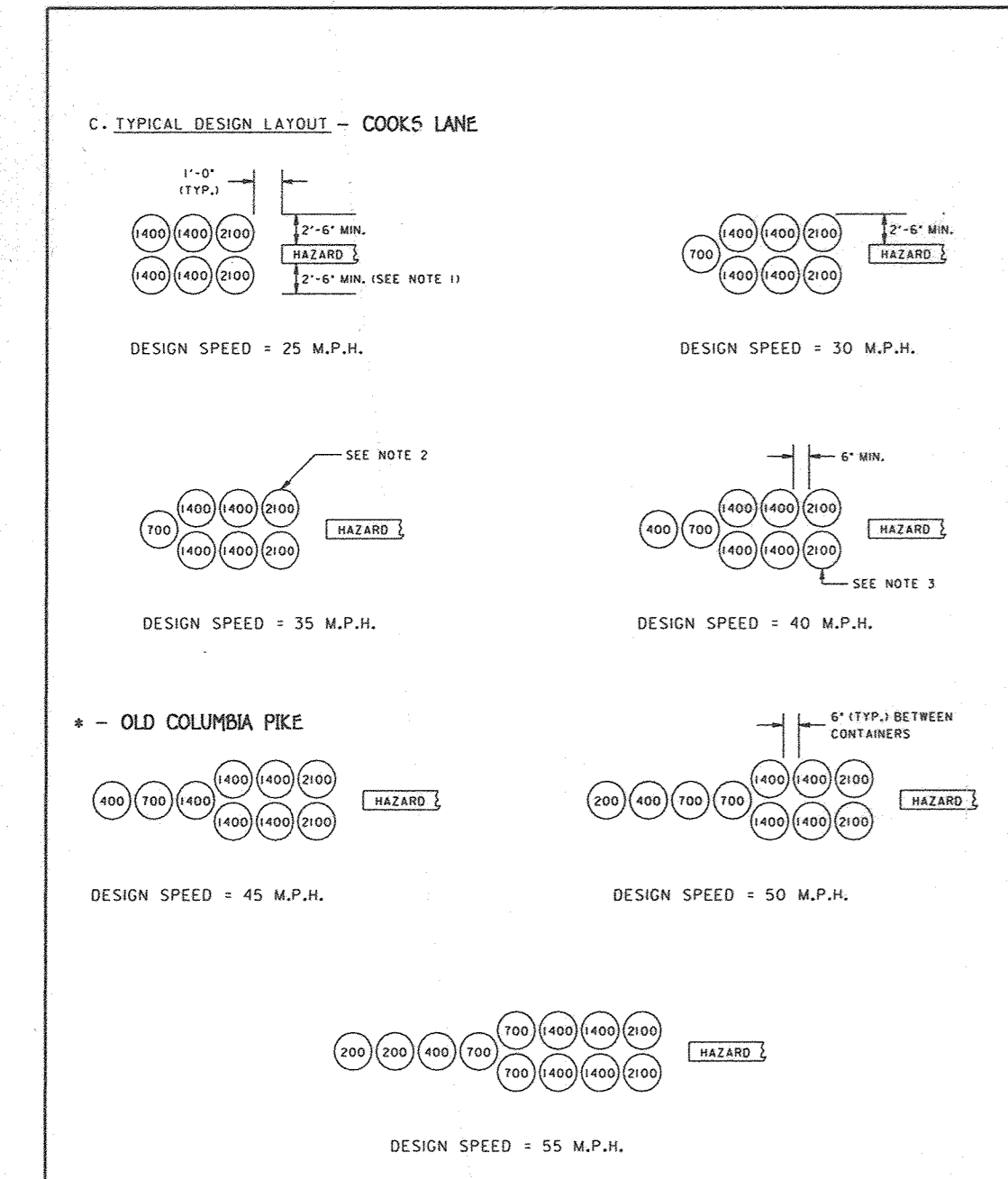
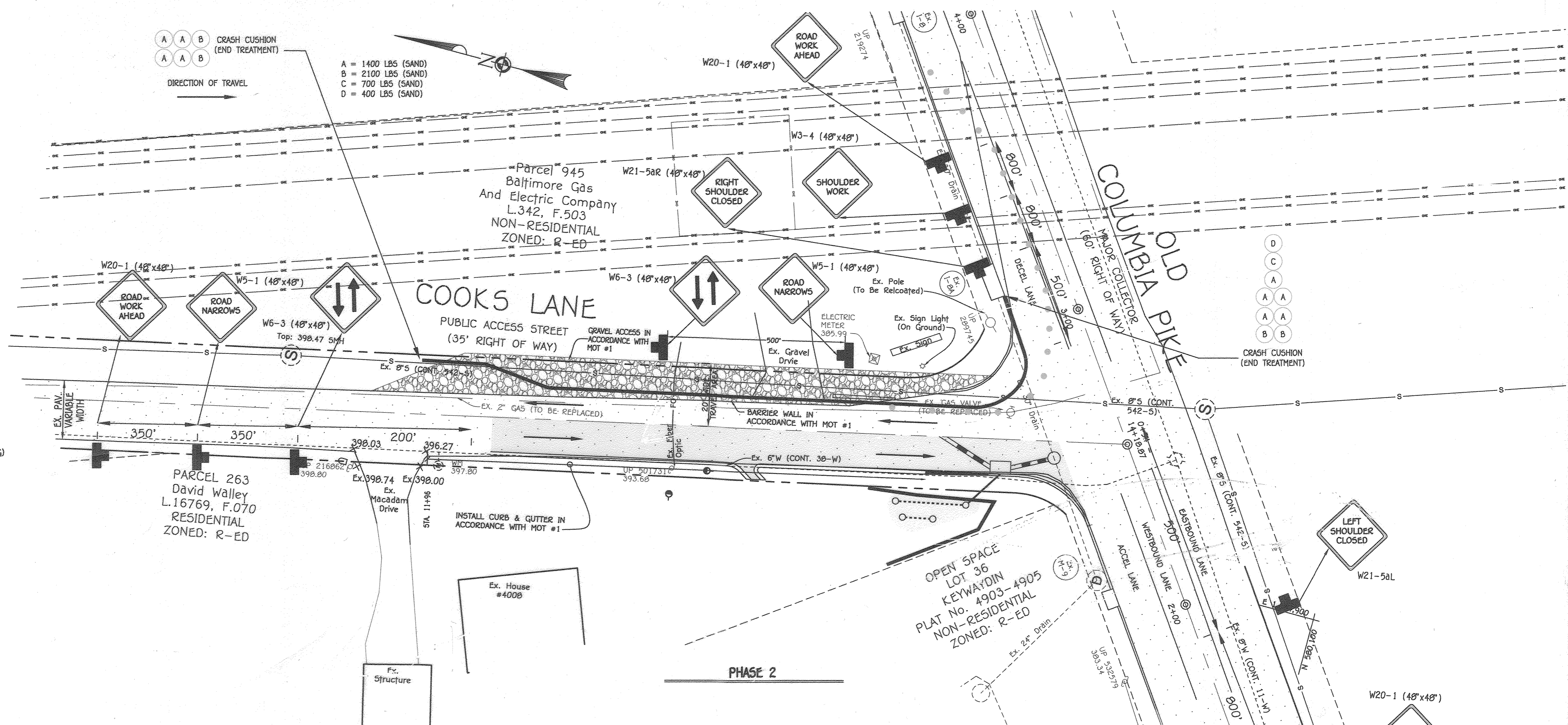
F-20-066

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Specification 104 & 504
 Maryland Department of Transportation
 STATE HIGHWAY ADMINISTRATION
 STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
 SAND FILLED PLASTIC BARRELS
 (TEMPORARY OR PERMANENT)
 STANDARD NO. MD 104.01-71

Specification 104
 Maryland Department of Transportation
 STATE HIGHWAY ADMINISTRATION
 STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
 SHOULDER WORK / 2-LANE, 2-WAY
 GREATER THAN 40 MPH
 STANDARD NO. MD 104.02-01

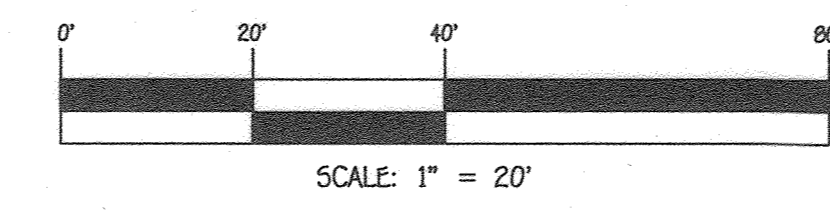
Specification 104
 Maryland Department of Transportation
 STATE HIGHWAY ADMINISTRATION
 STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
 FLAGGING OPERATION / 2-LANE, 2-WAY
 GREATER THAN 40 MPH
 STANDARD NO. MD 104.02-09

Approved: Department Of Planning And Zoning
 Chief, Division Of Land Development
 Chief, Development Engineering Division
 Approved: Howard County Department Of Public Works
 Chief, Bureau Of Highways

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21114
 (410) 461-2995



PROFESSIONAL CERTIFICATION
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DEVELOPER
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 C/O DAVE WOESNER
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 410-461-0837

PHASE 2
 TRAFFIC CONTROL
 COOKS LANE
 PREVIOUS FILE NUMBERS: P5048, F-80-092, & 5-17-006
 ZONED: R-ED
 TAX MAP NO.: 24 GRID NO.: 18
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: MAY, 2021
 SHEET 19 OF 19

AS-BUILT CERTIFICATION
 Note: There is no "AS-BUILT" information provided on this sheet.
 STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 PAUL GERARD GAMMAUGH #27020
 Date: 5/2/2021