

GRADING ONLY PLANS

MAIN STREET IMPROVEMENTS

TOWN OF SYKESVILLE

LEGEND

	L00	LIMIT OF DISTURBANCE
	80	EX. MAJOR CONTOUR
	78	EX. MINOR CONTOUR
	GgA GgC	SOIL DIVIDE
	---	PROPERTY LINE
	---	EX. CURB & GUTTER
	---	EX. EDGE OF PAVEMENT
	W	EX. WATER
	SS	EX. SEWER
	SD	EX. STORM DRAIN
	G	EX. GAS
	FM	EX. FORCE MAIN
	E	EX. ELECTRIC
	OH	EX. OVERHEAD ELECTRIC
	---	EX. FENCE
	▽	EX. DOOR
	□	EX. BUILDING FOOTPRINT
	---	EX. CONCRETE WALK
	SP-1	EX. SPECIMEN TREE AND ROOT ZONE
	---	EX. LIGHTPOLE
	---	EX. FIRE HYDRANT
	---	EX. SIGN
	80	PROP. MAJOR CONTOUR
	78	PROP. MINOR CONTOUR
	---	PROP. CURB & GUTTER
	---	PROP. EDGE OF PAVEMENT
	---	PROP. STORM DRAIN
	---	PROP. SIGN
	---	PROP. MAJOR TREE
	---	PROP. UNDERSTORY TREE
	---	PROP. SHRUB

INSPECTION SEQUENCE NOTES

- CONTRACTOR SHALL NOTIFY THE CARROLL COUNTY BUREAU OF PERMITS AND INSPECTIONS AT 410-366-2674, AT LEAST ONE DAY PRIOR TO BEGINNING ANY WORK.
- SITE COMPLIANCE INSPECTIONS ARE REQUIRED AT THE FOLLOWING STAGES DURING CONSTRUCTION:
 - PROPOSED STRUCTURE STAKED OUT IN PROPER LOCATIONS AS SHOWN ON THESE APPROVED PLANS.
 - PROPOSED FOUNDATIONS INSTALLED FOR ALL BUILDINGS SHOWN ON THESE APPROVED PLANS.
 - SUB-GRADE ESTABLISHED FOR ALL DRIVES, PARKING LOTS, AND SURROUNDING GRADING.
 - COMPLETION OF ALL DRIVES, PARKING LOTS, AND SURROUNDING GRADING.
 - COMPLETION OF ALL WORK SHOWN ON PLANS.
- CONTRACTOR SHALL NOTIFY CARROLL COUNTY BUREAU OF RESOURCE MANAGEMENT, ENVIRONMENTAL INSPECTION SERVICES DIVISION AT 410-366-2210 PRIOR TO BEGINNING ANY WORK. ALL FOREST CONSERVATION PLAN DEVICES MUST BE IN PLACE PRIOR TO ANY CONSTRUCTION.
- FINAL LANDSCAPING INSPECTION SHALL BE ARRANGED THROUGH THE TOWN OF SYKESVILLE, AT 410-795-8959 BY A TOWN STAFF MEMBER. WRITTEN APPROVAL FROM THE TOWN OF SYKESVILLE MUST BE OBTAINED FOR ANY DEVIATIONS FROM THE LANDSCAPING OR FOREST CONSERVATION PLANS MODIFICATIONS IN THE PLANT MATERIAL.

ENGINEER

I CERTIFY THAT THIS PLAN OF SEDIMENT CONTROL IS DESIGNED WITH MY PERSONAL KNOWLEDGE OF THE SITE CONDITION AND HAS BEEN DESIGNED TO THE STANDARDS AND SPECIFICATIONS ADOPTED BY THE CARROLL SOIL CONSERVATION DISTRICT.

ENGINEER'S DESIGN CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN DESIGNED ACCORDING TO CHAPTER 15.1 OF PUBLIC LOCAL LAWS AND ORDINANCES OF CARROLL COUNTY AND I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND I AM A DULY LICENSED PROFESSIONAL ENGINEER OR PROFESSIONAL LAND SURVEYOR, AS APPROPRIATE, UNDER THE LAWS OF THE STATE OF MARYLAND.

SIGNED	DATE
XXXXXX	XXXXXXX
LICENSE NO.	EXP. DATE

DEVELOPER'S / LANDOWNER'S CERTIFICATION

I/WE HEREBY CERTIFY THAT ALL PROPOSED WORK SHOWN ON THESE CONSTRUCTION DRAWING(S) WILL BE CONDUCTED IN STRICT ACCORDANCE WITH THESE PLANS. I/WE ALSO UNDERSTAND THAT IT IS MY/OUR RESPONSIBILITY TO HAVE THE CONSTRUCTION SUPERVISED AND CERTIFIED, INCLUDING THE SUBMITTAL OF "AS-BUILT" PLANS CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER OR PROFESSIONAL LAND SURVEYOR, AS APPROPRIATED, WITHIN THIRTY (30) DAYS OF COMPLETION OF WORK ON THE STORMWATER MANAGEMENT FACILITY/FACILITIES. I/WE ALSO CERTIFY THAT THIS/THESE STORMWATER MANAGEMENT FACILITY/FACILITIES WILL BE INSPECTED DURING CONSTRUCTION BY A REGISTERED PROFESSIONAL ENGINEER OR PROFESSIONAL LAND SURVEYOR, AS APPROPRIATE, IN ACCORDANCE WITH SECTIONS 15.1.095 AND 15.1.095 OF THE CODE OF PUBLIC LOCAL LAWS AND ORDINANCES OF CARROLL COUNTY.

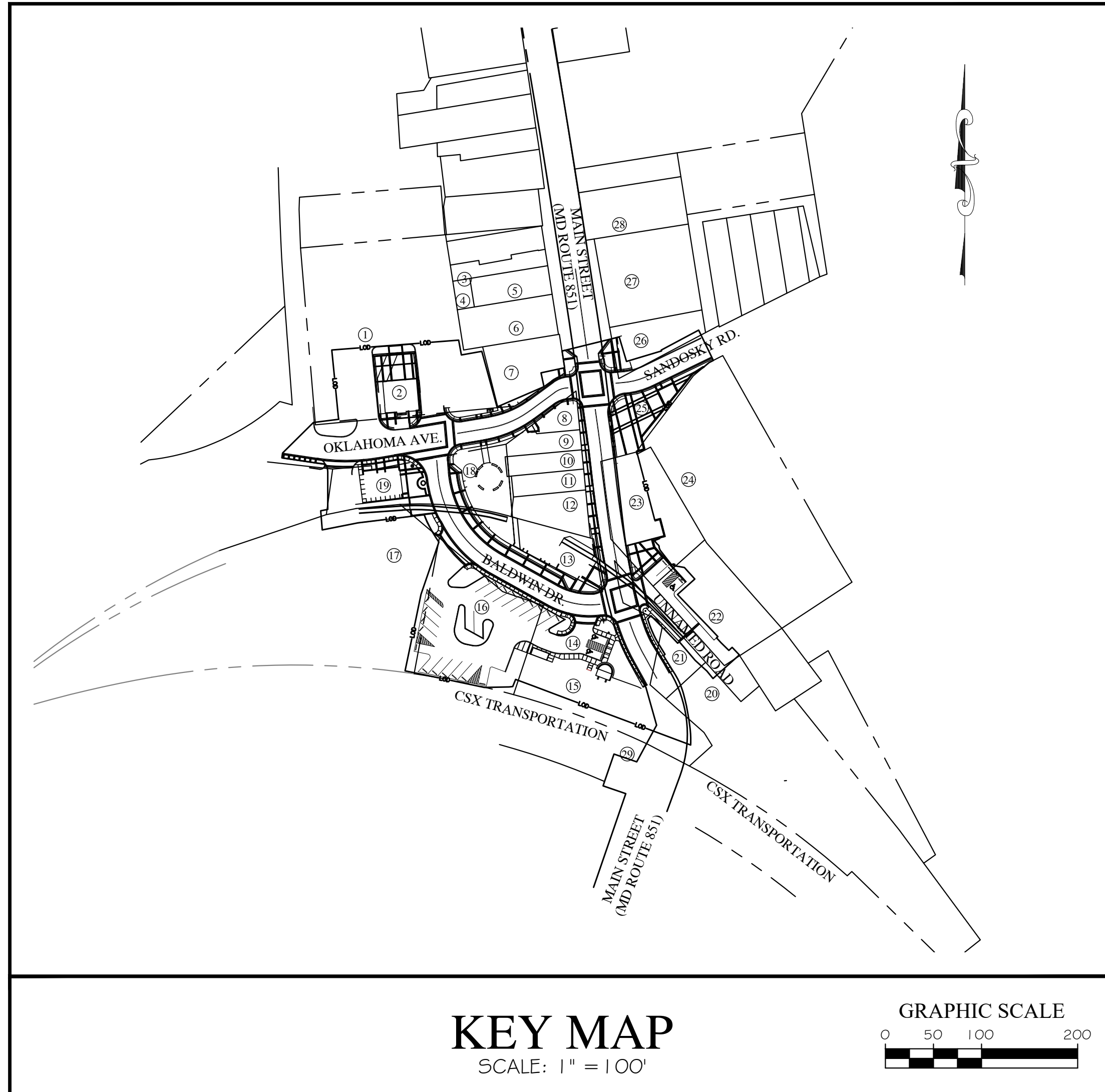
SIGNED	DATE
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SIGNED	DATE
PRINTED	PHONE
XXXXXX	
DEVELOPER COMPANY	

CARROLL SOIL CONSERVATION DISTRICT

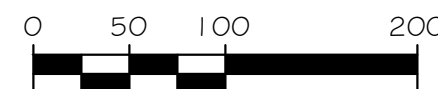
THE DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE CARROLL SOIL CONSERVATION DISTRICT.

SIGNED	DATE
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KEY MAP
SCALE: 1" = 100'

GRAPHIC SCALE



SHEET INDEX

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C-20	20 OF 22 SWM - DETAILS & NOTES
C-21	21 OF 22 EXISTING IMPERVIOUS AREA MAP
C-22	22 OF 22 PROPOSED IMPERVIOUS AREA MAP

ENGINEER

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SPARKS, MD 21152
CONTACT: TONY MEYERS
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PHONE: (410) 316-7898

OWNER / APPLICANT

TOWN OF SYKESVILLE
7547 MAIN STREET
SYKESVILLE, MD 21184
ATTN: MR. JOE COSENTINI
EMAIL: JCOSENTINI@SYKESVILLE.NET
PHONE: (410) 795-8959



ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS

936 RIDGEBROOK ROAD
SPARKS, MD 21152
TELEPHONE: (410) 316-7800
FAX: (410) 316-7818

SITE DATA

- EXISTING ZONING: CORPORATE LIMIT
- TOTAL AREA OF SITE: 2.20 ACRES
- TOTAL DISTURBED AREA: 95,765 S.F.
- THE PROPERTY SHOWN HEREON IS OWNED BY THE TOWN OF SYKESVILLE BY DEED DATED 03/31/1988, RECORDED AMONG THE LAND RECORDS OF CARROLL COUNTY LIBER 1075, FOLIO 119.
- TAX MAP: 201 BLOCK: 10 PARCEL: 479 PLAT REFERENCE: 33/158
- TOPOGRAPHY SHOWN HEREON IS FIELD RUN, DATED 06/29/2022, AND PREPARED BY KCI.
- LOCATION OF THE NEAREST WATER SUPPLY FOR WATER PROTECTION: N/A, THERE ARE NO PROPOSED BUILDINGS AND THERE ARE FIRE HYDRANTS THROUGHOUT THE TOWN.
- THE LOCATION OF THE EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY. CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION, AND DEPTH OF ANY EXISTING UTILITIES AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
- THE CONTRACTOR SHALL CALL "MISS UTILITY" AT 1-800-257-7777 THREE WORKING PRIOR TO BEGINNING ANY WORK IN THE VICINITY OF EXISTING UTILITIES.
- THE CONTRACTOR SHALL NOTE THAT IN CASE OF A DISCREPANCY BETWEEN THE SCALED AND FIGURED DIMENSIONS SHOWN ON THESE PLANS, THE FIGURED DIMENSIONS SHALL GOVERN.
- ANY CHANGES TO THIS PLAN WILL REQUIRE AN AMENDED SITE DEVELOPMENT PLAN TO BE APPROVED BY THE SYKESVILLE PLANNING COMMISSION.
- THIS SITE PLAN SHALL BECOME VOID EIGHTEEN MONTHS AFTER THE DATE OF APPROVAL IF NO BUILDING PERMIT OR ZONING CERTIFICATE HAS BEEN ISSUED FOR THIS PROJECT, UNLESS AN EXTENSION OF THIS TIME LIMIT IS ISSUED BUT THE DIRECTOR OF THE DEPARTMENT OF PLANNING.

GENERAL NOTES

- CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITIONS OF THE FOLLOWING, INCLUDING ALL ADDENDA, SUPPLEMENTS OR UPDATES:
 - DESIGN MANUAL - VOLUME ONE - ROADS AND STORM DRAINS, 1994 EDITION, OF THE CARROLL COUNTY DEPARTMENT OF PUBLIC WORKS.
 - DESIGN GUIDE FOR FLEXIBLE PAVEMENT, 2004, OF THE CARROLL COUNTY DEPARTMENT OF PUBLIC WORKS.
 - BOOK OF STANDARDS, HIGHWAY AND INCIDENTAL STRUCTURES OF THE MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION.
 - STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, 2008 EDITION, OF THE MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION.
 - MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MDMUTCD) 2009 EDITION OF THE MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION.
 - MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, 1994 EDITION, PUBLISHED JOINTLY BY WATER RESOURCES ADMINISTRATION, SOIL CONSERVATION SERVICE AND STATE SOIL CONSERVATION COMMITTEE.
- THE CONTRACTOR SHALL NOTIFY THE CARROLL COUNTY DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION (410-366-2157) A MINIMUM OF THREE (3) WORKING DAYS BEFORE BEGINNING WORK.
- CONTRACTOR SHALL FURNISH, PLACE AND MAINTAIN TRAFFIC CONTROL MEASURES AS SHOWN IN THESE PLANS AND AS SPECIFIED IN THE MDMUTCD. CONTRACTOR SHALL IMMEDIATELY REMOVE AND REPLACE DEVICES WHICH ARE DAMAGED, DO NOT FUNCTION PROPERLY, OR ARE DETERMINED BY CONSTRUCTION INSPECTOR TO BE UNSUITABLE FOR THEIR PURPOSE. TRAFFIC CONTROL DEVICES MAY BE REMOVED ONLY UPON APPROVAL OF CONSTRUCTION INSPECTOR.
- IF, DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHOULD ENCOUNTER POSSIBLE CONFLICTS WITH UTILITIES, HE SHALL IMMEDIATELY NOTIFY THE TOWN MANAGER AND THE OWNER OF THE UTILITY AND TAKE ALL NECESSARY AND PROPER STEPS TO PROTECT THE CONTINUANCE OF SERVICE, EITHER ABOVE OR BELOW GROUND, HE SHALL HAVE SUCH UTILITY RESTORED TO CONDITION EQUAL TO THAT WHICH EXISTED PRIOR TO THE DAMAGE AT THEIR ENTIRE COST AND EXPENSE.
- IF FOR ANY REASON PROPOSED FACILITIES CANNOT BE CONSTRUCTED IN ACCORDANCE WITH APPROVED PLANS, CONTRACTOR MUST IMMEDIATELY INFORM CONSTRUCTION INSPECTOR OR CONSTRUCTION INSPECTION DIVISION (410-366-2157) AND SHALL NOT BEGIN OR CONTINUE WORK ON THOSE ITEMS. IF THE DEPARTMENT OF PUBLIC WORKS DETERMINES PLAN REVISIONS ARE NECESSARY, NO WORK SHALL BE PERFORMED ON THE ITEM(S) IN QUESTION UNTIL REVISED PLANS ISSUED BY THE DESIGN ENGINEER ARE APPROVED AND ISSUED FOR CONSTRUCTION BY THE BUREAU OF DEVELOPMENT REVIEW.
- FAILURE TO MENTION SPECIFICALLY THE PROVISION OF ANY ITEM(S), OR PERFORMANCE OF ANY WORK OR PROCEDURE WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT, SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PROVIDE SUCH ITEM(S) OR TO PERFORM SUCH WORK OR PROCEDURE.
- CONSTRUCT EARTH FILLS FOR ROADS, EMBANKMENTS, AND STRUCTURES IN ACCORDANCE WITH SECTION 204 EMBANKMENT AND SUBGRADE OF THE MD SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS. COMPACT THE MATERIAL THAT IS 1 FOOT BELOW THE TOP OF SUBGRADE TO AT LEAST 92.0% OF MAXIMUM DRY DENSITY USING AASHTO T-160 METHOD. COMPACTION OF TOP ONE FOOT OF FILL SHALL NOT BE LESS THAN 97.0% OF MAXIMUM DRY DENSITY USING THE SAME METHOD.
- DEVELOPER IS RESPONSIBLE FOR PROVIDING SOIL, BASE AGGREGATE AND HOT MIX ASPHALT COMPACTION TESTING. A CERTIFIED TECHNICIAN MUST BE ON-SITE AT ALL TIMES DURING FILL OPERATIONS. COMPACTION TESTS MUST BE CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MARYLAND. COPIES OF SOIL COMPACTION TEST RESULTS MUST BE PROVIDED TO, AND APPROVED BY, THE CONSTRUCTION INSPECTION DIVISION PRIOR TO PLACEMENT OF CURBS AND/OR BASE AGGREGATE. COPIES OF BASE AGGREGATE COMPACTION TEST RESULTS MUST BE PROVIDED TO, AND APPROVED BY, THE CONSTRUCTION INSPECTION DIVISION PRIOR TO PLACEMENT OF BASE HOT MIX ASPHALT.
- INLET GRATES IN SUMPS SHALL BE CONSTRUCTED LEVEL AT ELEVATION GIVEN IN STRUCTURE SCHEDULE. INLETS ON GRADE SHALL BE ADJUSTED SO THAT SLOPE OF GRATE MATCHES FINISHED FLOW LINE OF CURB. TOP ELEVATION SHALL APPLY TO CENTERLINE OF GRATE AT FLOW LINE OF CURB. CROSS SLOPE OF THE GRATE SHALL MATCH THE ROAD CROSS SLOPE.
- PIPE ELEVATIONS SHOWN ON STORM DRAIN PROFILES ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED.
- WHERE DITCH OR WATERWAY STABILIZATION MATTING OF ANY TYPE IS SPECIFIED, INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. MATTING SHALL BE PLACED ON BOTTOM AND SIDE SLOPES TO PROVIDE EITHER 1.0' STABILIZED DEPTH, UNLESS OTHERWISE INDICATED ON PLANS.
- ALL EXISTING PAVING DISTURBED BY UTILITY CUTS SHALL BE REPLACED IN ACCORDANCE WITH CARROLL COUNTY STANDARD PLATE 47, OPTION 1 OR OPTION 3 IN THE DESIGN MANUAL, VOLUME 1 OR AS NOTED IN THE UTILITY PERMIT.
- ONCE BEGUN, ROAD CONSTRUCTION SHALL BE CONTINUED UNTIL FULL DEPTH OF AGGREGATE BASE AND PAVING AS SHOWN ON THE TYPICAL SECTION ARE PLACED, INCLUDING THE FINISHED SURFACE COURSE. AGGREGATE BASE COURSE AND HOT MIX ASPHALT BASE COURSE SHALL NOT REMAIN UNCOVERED FOR MORE THAN FIVE WORKING DAYS.
- OFF-SITE BORROW MATERIAL TO BE IMPORTED FOR EMBANKMENT CONSTRUCTION AND SUPPORT OF PAVEMENT IS TO MEET THE MINIMUM SUBGRADE SOIL SPECIFICATIONS IN TABLE 3 OF THE DESIGN GUIDE FOR FLEXIBLE PAVEMENTS. CBR TESTING OF OFF-SITE BORROW MATERIAL SHALL BE COMPLETED AND THE TEST RESULTS SUBMITTED TO AND APPROVED BY THE BUREAU OF DEVELOPMENT REVIEW PRIOR TO DELIVERY OF THE MATERIAL. THE PAVING DESIGN SECTIONS SHOWN ON THE BORROW PLANS SHALL BE REVIEWED AND EVALUATED USING THE CBR TESTING RESULTS OF THE BORROW MATERIAL. ANY CHANGES TO THE PAVEMENT DESIGN SECTIONS BASED ON THE CBR TEST RESULTS SHALL BE INCORPORATED THROUGH THE RED-LINE REVISION PROCESS.
- THE DESIGN EQUIVALENT SINGLE AXLE LOADS (ESAL) AND THE DESIGN CBR VALUE SHALL BE NOTED ON THE CONSTRUCTION PLANS.
- PERMANENT SIGNAGE AND STRIPING SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR SHALL NOTIFY THE TOWN OF SYKESVILLE PUBLIC WORKS AT 410-366-2164 A MINIMUM OF THREE (3) WEEKS PRIOR TO STARTING WORK TO CONFIRM PROPOSED LOCATIONS AND THEN AGAIN 48 HOURS PRIOR TO COMPLETION OF WORK TO CONFIRM PROPER FURNISHING AND INSTALLATION.
- CONSTRUCTION VEHICLES, CONTRACTOR OR PRIVATE, OR CONSTRUCTION MATERIALS OR EQUIPMENT SHALL NOT BE PARKED, PLACED, OR STORED WITHIN ANY PUBLIC RIGHT-OF-WAY.

BID SET

COVER SHEET - GRADING ONLY PLANS

MAIN STREET IMPROVEMENTS

TOWN OF SYKESVILLE

SYKESVILLE, MD 21184

CARROLL COUNTY

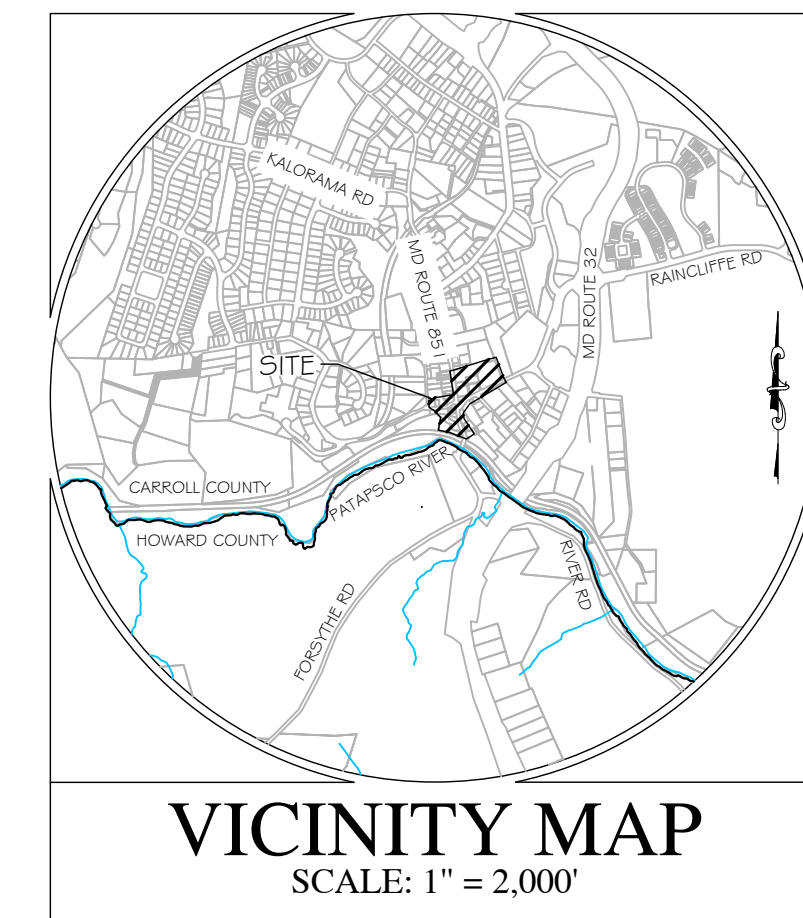
13TH ELECTION DISTRICT

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 28935 EXP. DATE: 1/15/2025

DRAWING NO.

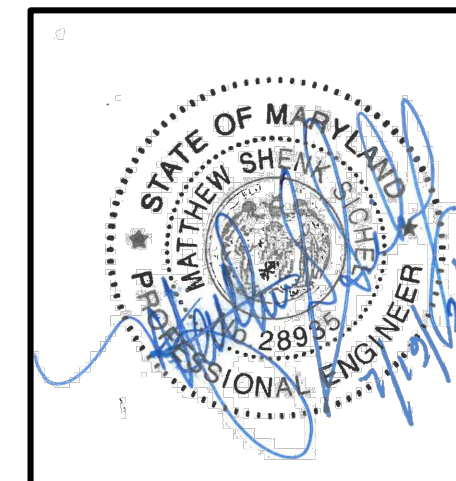
C-01

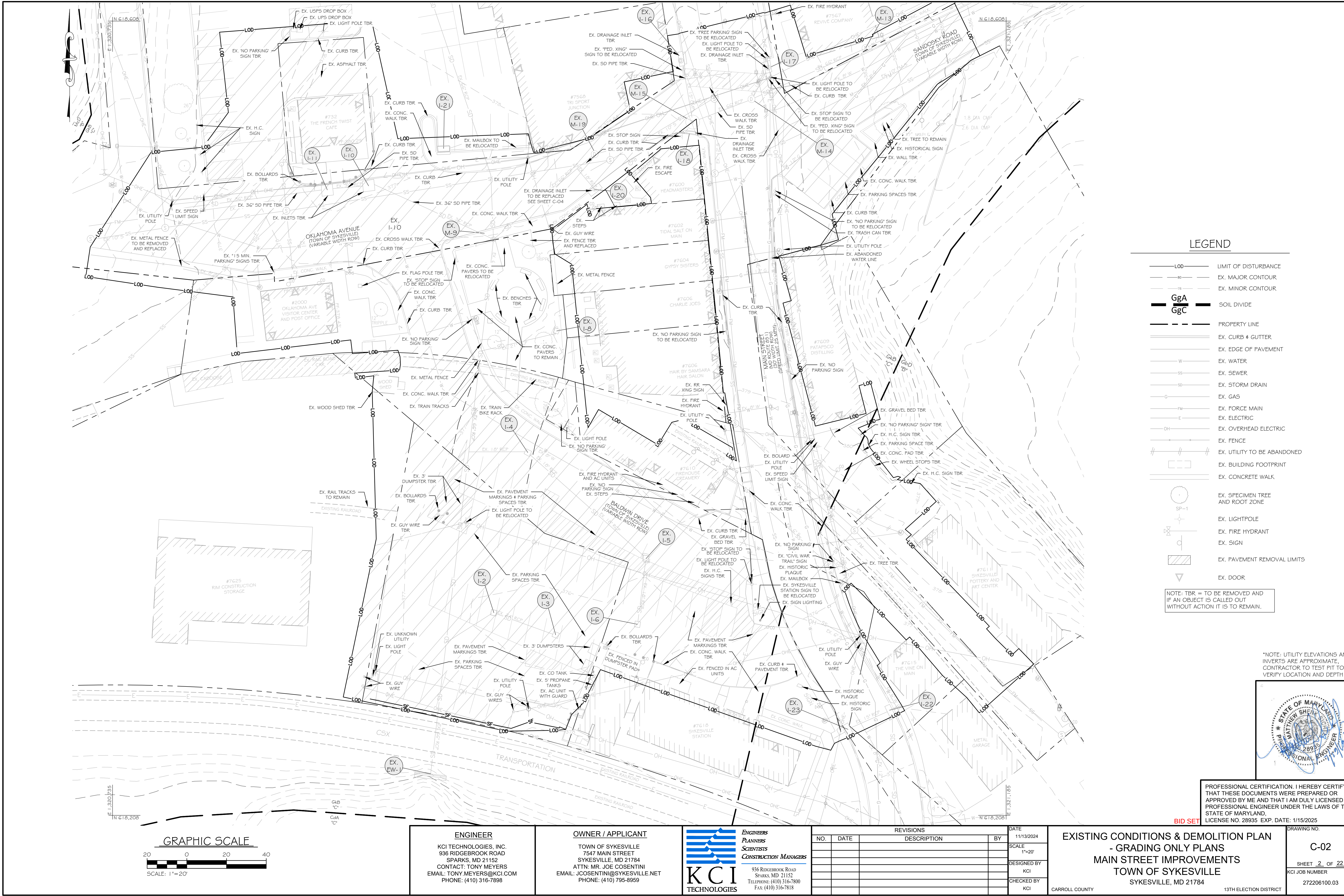
SHEET 1 OF 22
KCI JOB NUMBER
272206100.03



VICINITY MAP
SCALE: 1" = 2,000'

- PARCEL 411 TOWN OF SYKESVILLE L 1115 F. 160 732 OKLAHOMA AVE
- PARCEL 411 WILLIAM & ELAINE GOSSAGE L 7859 F. 373 732 OKLAHOMA AVE,
- PARCEL 411 BLUECEANS LLC L 4364 F. 094 7566 MAIN ST
- PARCEL 411 TOWN OF SYKESVILLE L 115 F. 160 7564 MAIN ST.,
- PARCEL 4407 CALLAWAY & COSTABLE INVESTMENTS LLC L 5730 F. 401 7564 MAIN ST.,
- PARCEL 4407 BRINKMANN LLC L 3745 F. 644 7566 MAIN ST
- PARCEL 4407 WILLIAM & ELAINE GOSSAGE L 7859 F. 373 7566 MAIN ST
- PARCEL 4407 FREDERICK & ELAINE GOSSAGE L 7682 F. 352 7600 MAIN ST
- PARCEL 4407 SYKESVILLE MAIN STREET LLC L 515 F. 463 7602 MAIN ST
- PARCEL 4407 SYKESVILLE MAIN STREET LLC L 515 F. 459 7604 MAIN ST
- PARCEL 4407 MMB REAL ESTATE HOLDINGS LLC L 5468 F. 559 7604 MAIN ST
- PARCEL 4407 MMB REAL ESTATE HOLDINGS LLC L 5468 F. 559 7606 MAIN ST
- PARCEL 4407 JSB LLC L 8452 F. 326 7610 MAIN ST
- PARCEL 478 TOWN OF SYKESVILLE L 1075 F. 119 7547 MAIN ST
- PARCEL 479 TOWN OF SYKESVILLE L 1075 F. 119 7618 MAIN ST
- PARCEL 479 TOWN OF SYKESVILLE L 3011 F. 147 7625 MAIN ST
- PARCEL 478 TOWN OF SYKESVILLE L 1115 F. 160 7543 NORWOOD AVE
- PARCEL 4420 RIVERFRONT PROPERTIES LLC L 4784 F. 163 7229 OKLAHOMA AVE
- PARCEL 4454 VISION DAY LLC L 2787 F. 695 7625 MAIN ST
- PARCEL 4407 7615 MAIN STREET LLC L 2418 F. 676 7615 MAIN ST
- PARCEL 4454 7611 MAIN STREET LLC L 5335 F. 036 7611 MAIN ST
- PARCEL 4456 7609 CMA LLC L 348 F. 386 7609 MAIN ST
- PARCEL 4455 ST JOSEPH'S SYKESVILLE ROMAN CATHOLIC CONGREGATION L 6537 F. 311 7604 MAIN ST
- PARCEL 4404 7565-67 CMA LLC L 490 F. 261 7567 MAIN ST
- PARCEL 4404 7565-67 CMA LLC L 490 F. 254 7565 MAIN ST
- PARCEL 4404 BUFFALO CHIP INVESTMENTS LLC L 5089 F. 181 7557 MAIN ST

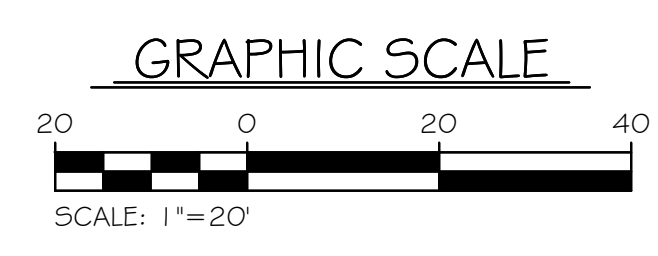




LEGEND

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- [] EX. SIGN
- [] EX. PAVEMENT REMOVAL LIMITS
- [] EX. DOOR

NOTE: TBR = TO BE REMOVED AND IF AN OBJECT IS CALLED OUT WITHOUT ACTION IT IS TO REMAIN.



ENGINEER KCI TECHNOLOGIES, INC. 936 RIDGEBROOK ROAD SPARKS, MD 21152 CONTACT: TONY MEYERS EMAIL: TONY.MEYERS@KCI.COM PHONE: (410) 316-7898	OWNER / APPLICANT TOWN OF SYKESVILLE 7547 MAIN STREET SYKESVILLE, MD 21784 ATTN: MR. JOE COSENTINI EMAIL: JOESENTINI@SYKESVILLE.NET PHONE: (410) 795-8959	KCI TECHNOLOGIES	ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS 936 RIDGEBROOK ROAD SPARKS, MD 21152 TELEPHONE: (410) 316-7800 FAX: (410) 316-7818	<table border="1"><thead><tr><th colspan="4">REVISIONS</th></tr><tr><th>NO.</th><th>DATE</th><th>DESCRIPTION</th><th>BY</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></tbody></table>	REVISIONS				NO.	DATE	DESCRIPTION	BY																	<table border="1"><tr><td>DATE 11/13/2024</td></tr><tr><td>SCALE 1"=20'</td></tr><tr><td>DESIGNED BY KCI</td></tr><tr><td>CHECKED BY KCI</td></tr></table>	DATE 11/13/2024	SCALE 1"=20'	DESIGNED BY KCI	CHECKED BY KCI	EXISTING CONDITIONS & DEMOLITION PLAN - GRADING ONLY PLANS MAIN STREET IMPROVEMENTS TOWN OF SYKESVILLE SYKESVILLE, MD 21784	<table border="1"><tr><td>DRAWING NO. C-02</td></tr><tr><td>SHEET <u>2</u> OF <u>22</u></td></tr><tr><td>KCI JOB NUMBER 272206100.03</td></tr></table>	DRAWING NO. C-02	SHEET <u>2</u> OF <u>22</u>	KCI JOB NUMBER 272206100.03
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PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 28935 EXP. DATE: 1/15/2025

BID SET

CARROLL COUNTY 13TH ELECTION DISTRICT

CARROLL COUNTY FILE NO. GRO-23-0006



LEGEND

L00

EX. MAJOR CONTOUR

80

EX. MINOR CONTOUR

GgA

GgC

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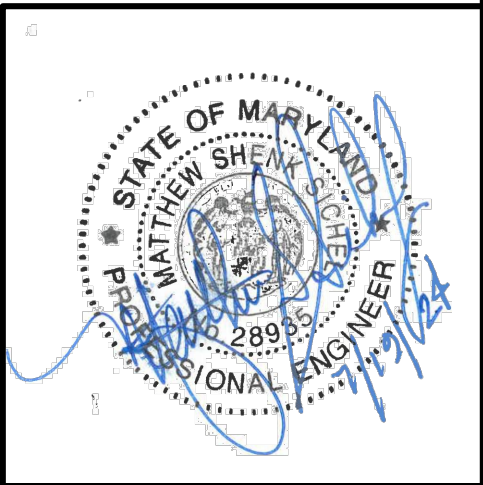
EX. SIGN

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EX. PAVEMENT REMOVAL LIMITS

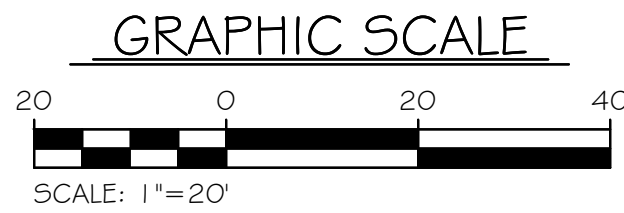
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EX. DOOR



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ENGINEER

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TECHNOLOGIES

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FAX: (410) 316-7818

REVISIONS

NO.	DATE	DESCRIPTION	BY

DATE

11/13/2024

SCALE

1"=20'

DESIGNED BY

KCI

CHECKED BY

KCI

EXISTING BOUNDARY PLAN
- GRADING ONLY PLANS
MAIN STREET IMPROVEMENTS
TOWN OF SYKESVILLE
SYKESVILLE, MD 21784

CARROLL COUNTY
13TH ELECTION DISTRICT

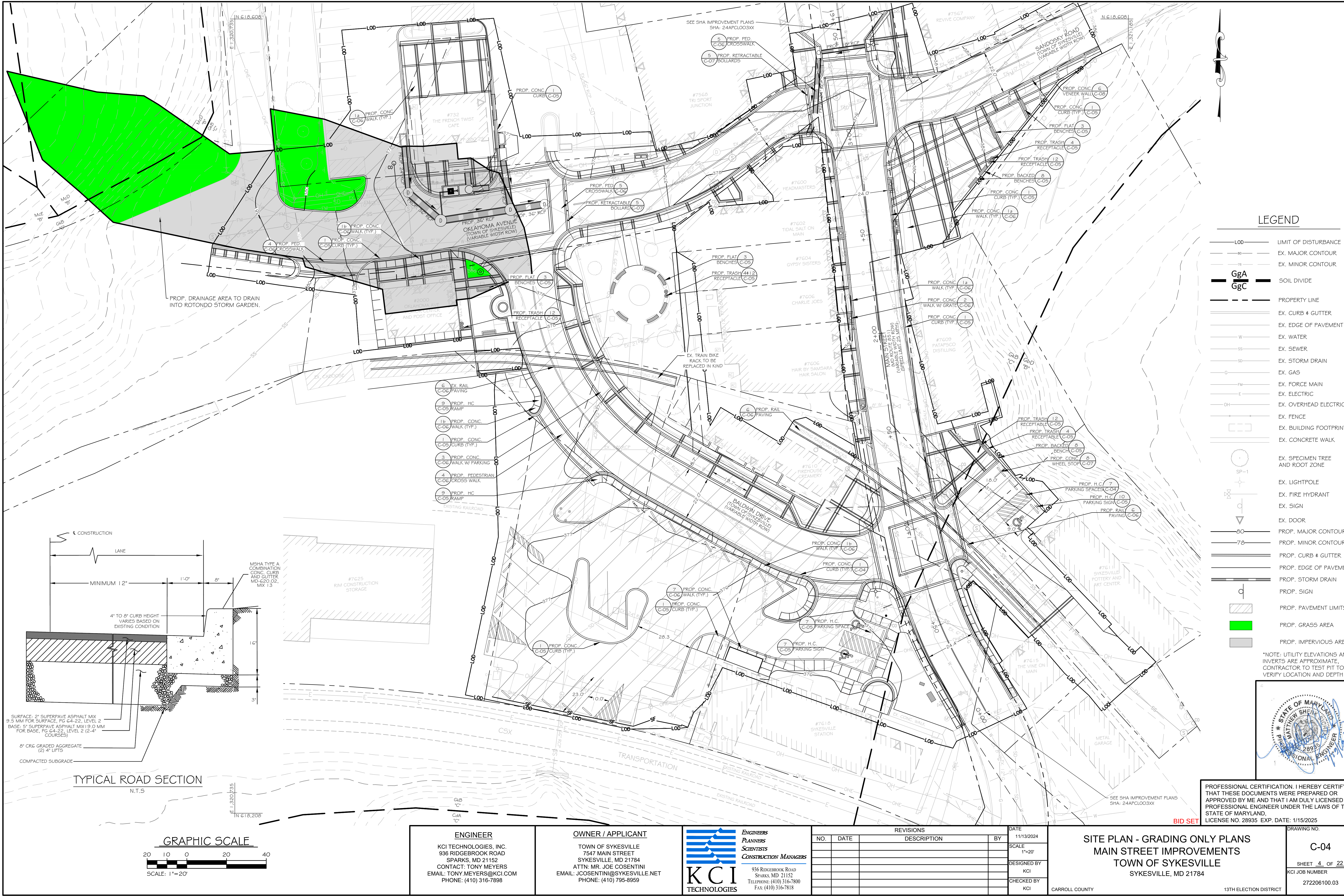
DRAWING NO.

C-03

SHEET 3 OF 22

KCI JOB NUMBER

272206100.03



LEGEND

L00

EX. MAJOR CONTOUR

80

EX. MINOR CONTOUR

GgA

GgC

SOIL DIVIDE

PROPERTY LINE

EX. CURB & GUTTER

EX. EDGE OF PAVEMENT

W

EX. WATER

SS

EX. SEWER

SD

EX. STORM DRAIN

G

EX. GAS

FM

EX. FORCE MAIN

E

EX. ELECTRIC

OH

EX. OVERHEAD ELECTRIC

EX. FENCE

EX. BUILDING FOOTPRINT

EX. CONCRETE WALK

SP-1

EX. SPECIMEN TREE AND ROOT ZONE

+

EX. LIGHTPOLE

+

EX. FIRE HYDRANT

+

EX. SIGN

+

EX. DOOR

80

PROP. MAJOR CONTOUR

78

PROP. MINOR CONTOUR

PROP. CURB & GUTTER

PROP. EDGE OF PAVEMENT

PROP. STORM DRAIN

+

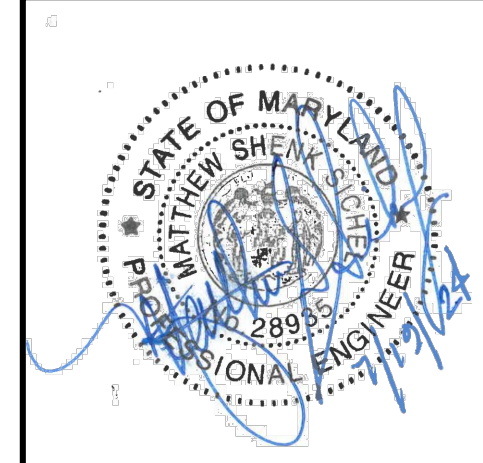
PROP. SIGN

PROP. PAVEMENT LIMITS

PROP. GRASS AREA

PROP. IMPERVIOUS AREA

*NOTE: UTILITY ELEVATIONS AND INVERTS ARE APPROXIMATE. CONTRACTOR TO TEST PIT TO VERIFY LOCATION AND DEPTH.



PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 28935 EXP. DATE: 1/15/2025

BID SET

REVISIONS				DATE
NO.	DATE	DESCRIPTION	BY	
				11/13/2024
				SCALE 1"=20'
				DESIGNED BY KCI
				CHECKED BY KCI

SITE PLAN - GRADING ONLY PLANS

MAIN STREET IMPROVEMENTS

TOWN OF SYKESVILLE

SYKESVILLE, MD 21784

CARROLL COUNTY

13TH ELECTION DISTRICT

DRAWING NO.

C-04

SHEET 4 OF 22

KCI JOB NUMBER 272206100.03

ENGINEER

KCI TECHNOLOGIES, INC.

936 RIDGEBROOK ROAD

SPARKS, MD 21152

CONTACT: TONY MEYERS

EMAIL: TONY.MEYERS@KCI.COM

PHONE: (410) 316-7898

OWNER / APPLICANT

TOWN OF SYKESVILLE

7547 MAIN STREET

SYKESVILLE, MD 21784

ATTN: MR. JOE COSENTINI

EMAIL: JOESENTINI@SYKESVILLE.NET

PHONE: (410) 795-8959

KCI TECHNOLOGIES

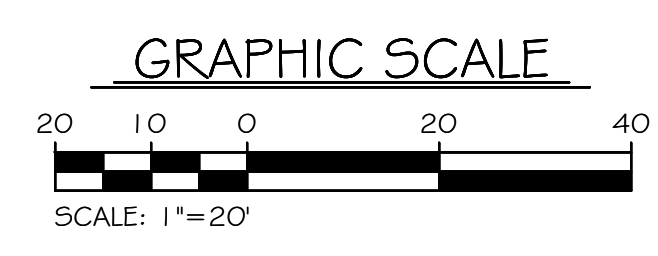
ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS

936 RIDGEBROOK ROAD

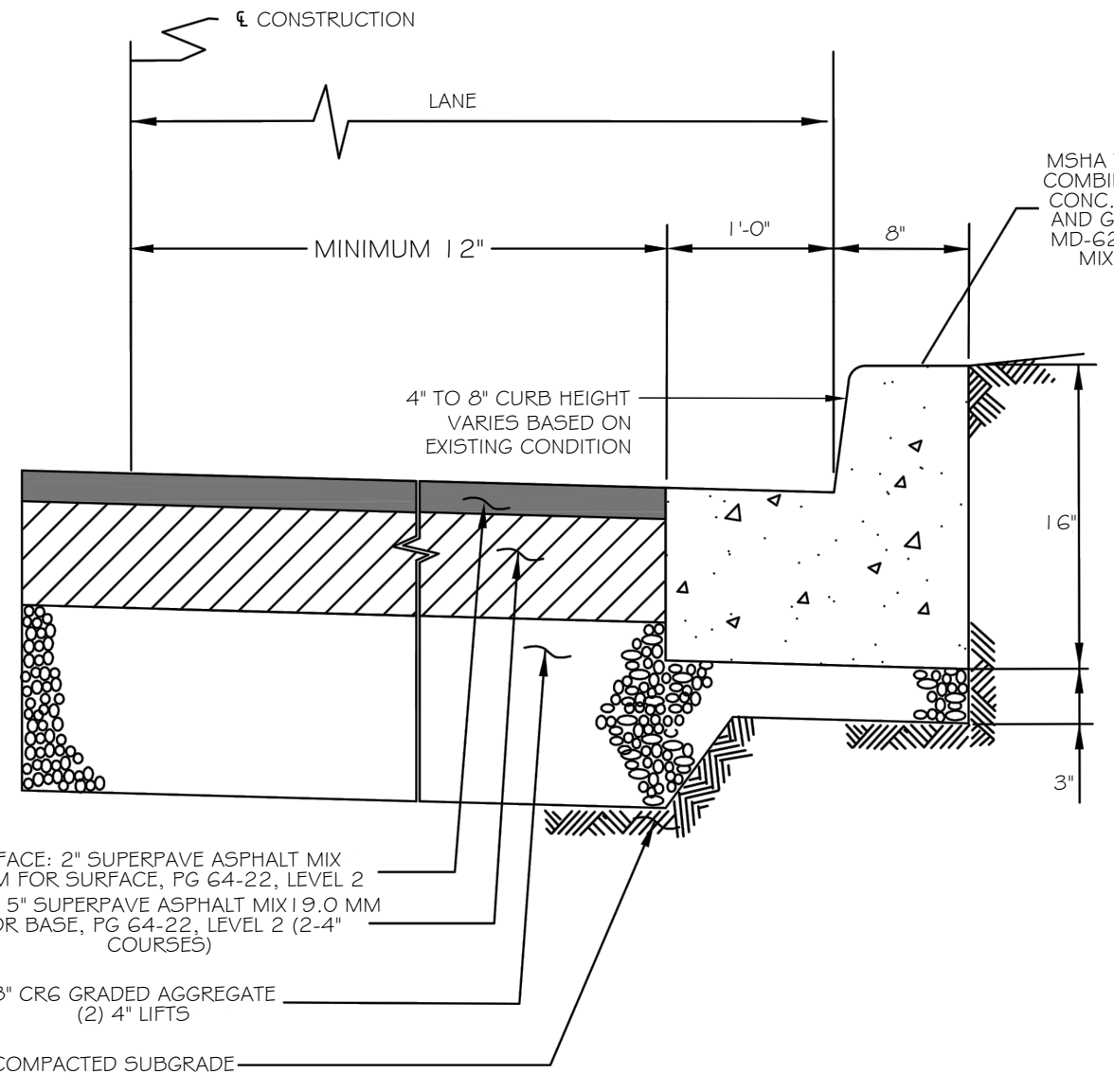
SPARKS, MD 21152

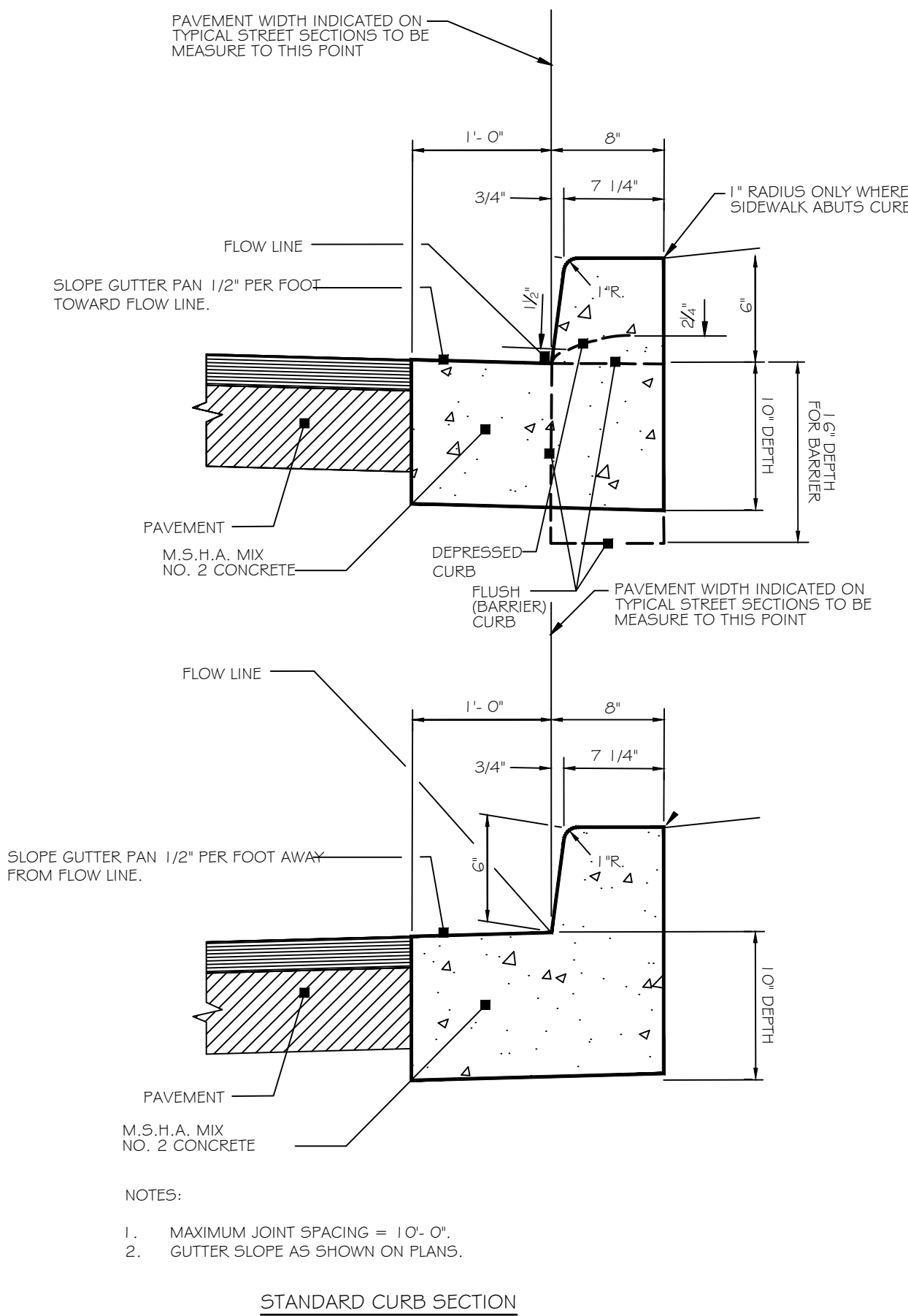
TELEPHONE: (410) 316-7800

FAX: (410) 316-7818



TYPICAL ROAD SECTION





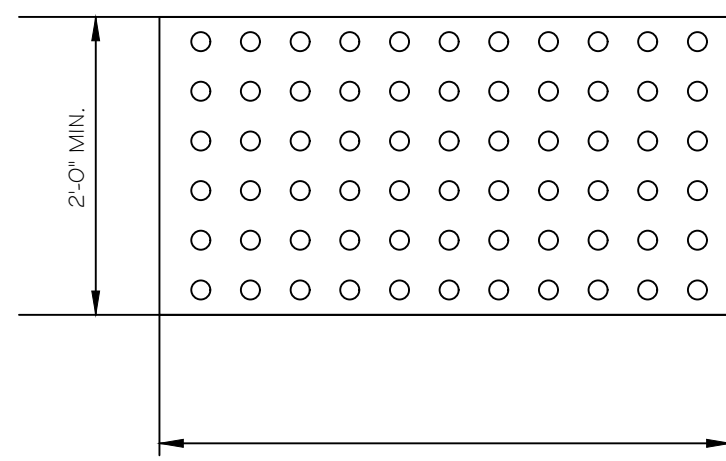
1 5 6" COMBINATION CONCRETE CURB & GUTTER
N.T.S.



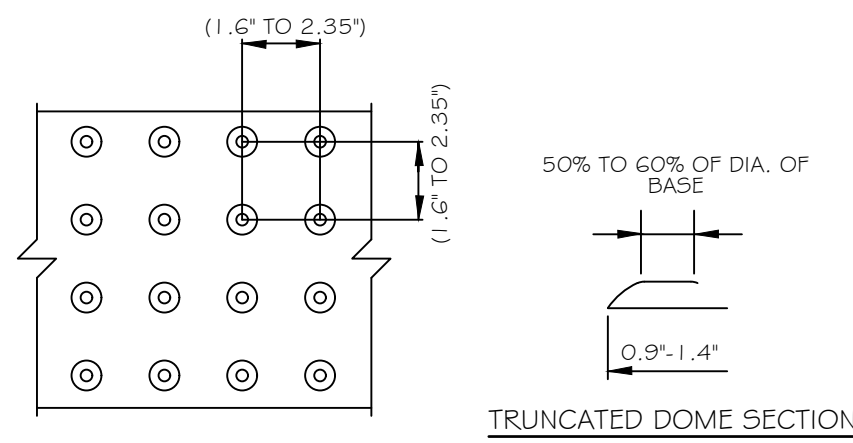
5 4 RESERVED PARKING SIGN
HANDICAPPED
N.T.S.



6 4 NO PARKING SIGN @
VAN ACCESS AISLE
N.T.S.



TRUNCATED DOME PLAN VIEW



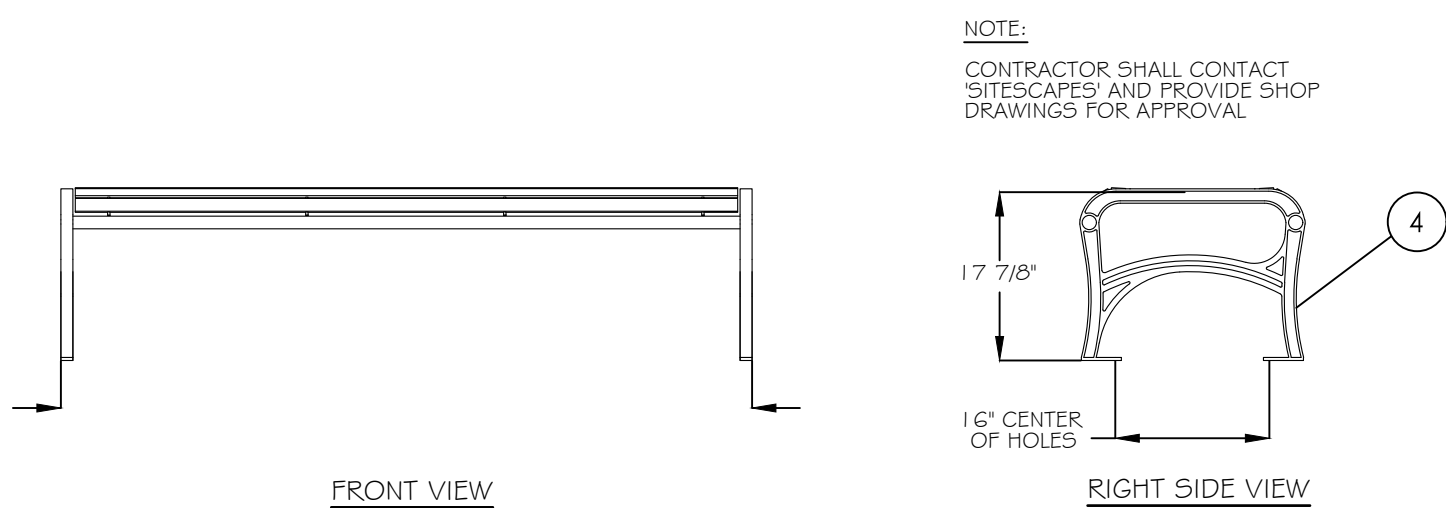
TRUNCATED DOME SPACING

TRUNCATED DOME NOTES:

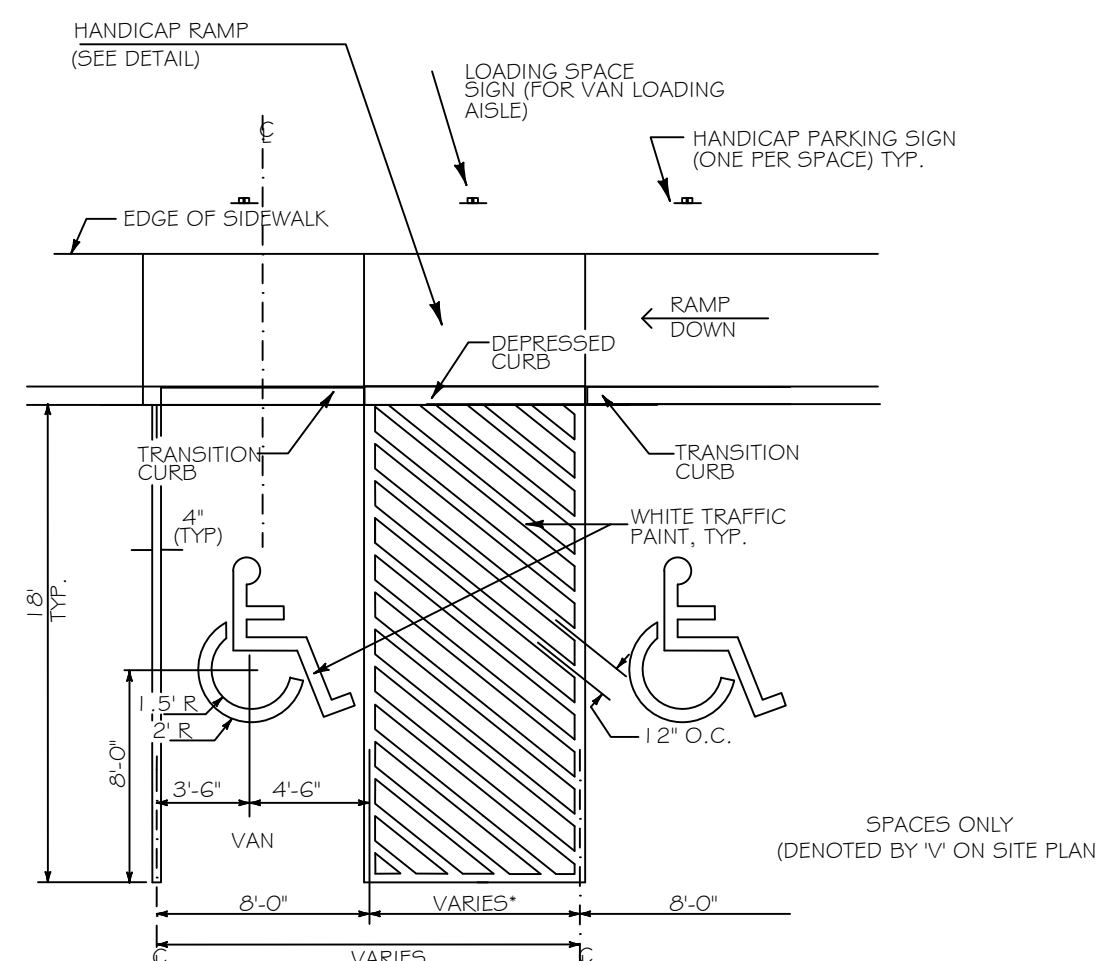
1. DETECTABLE WARNINGS TO BE PROVIDED NEAR THE BASE OF ALL HANDICAP ACCESS RAMPS AND ANY LOCATION WHERE DEPRESSED CURB IS PROPOSED.
2. DETECTABLE WARNINGS SHALL BE OF THE PAVEMENT OR MAT TYPE WITH ADHESIVE PER MANUFACTURER'S SPECIFICATIONS.
3. WIDTH OF DETECTABLE WARNING AREA SHALL VARY WITH WIDTH OF RAMP.
4. LENGTH OF DETECTABLE WARNING AREA SHALL BE 2 FEET REGARDLESS OF SECTION WIDTH.
5. DETECTABLE WARNING DOMES SHALL BE LAID ON A SQUARE GRID IN THE DOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.
6. DETECTABLE WARNING AREA SHALL BE COLORED YELLOW OR RED TO PROVIDE VISUAL CONTRAST.
7. IF PAVEMENT IS TO BE USED, PAVEMENT SHALL BE 6" THICK AND CAST FROM 3000 PSI CONCRETE.
8. IF MATS ARE TO BE USED, EDGES SHALL BE BEVELED TO ELIMINATE TRIP HAZARD.
9. SURFACES SHALL BE FABRICATED TO PROVIDE FULL DOMES ONLY.

9 5 ADA DETECTABLE WARNING (SEE MDSHA STANDARD NO MD 655.40)
N.T.S.

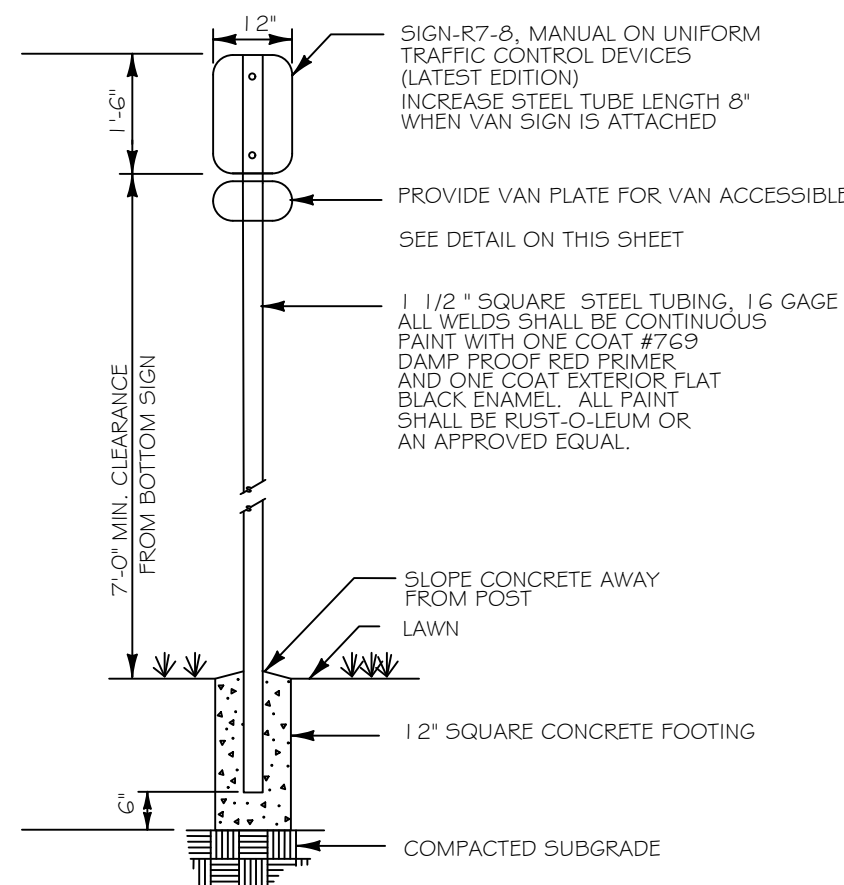
 SITESCAPES		P.O. Box 22326 Lincoln, NE 68542	PF: 402/421-9464 FX: 402/421-9479	WEBSITE: www.sitescapesonline.com E-MAIL: info@sitescapesonline.com
TITLE	WESTPORT FLAT BENCH	PRODUCT NO.	INCH TOLERANCES U.O.S.	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SITESCAPES, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SITESCAPES, INC. IS PROHIBITED.
			FRACTION--±1/16" ANG-----±1°	



2 5 CUSTOM CURVED WESTPORT FLAT BENCH BACKLESS
N.T.S. QTY -7



7 5 HANDICAP PARKING SPACES (CAR & VAN)
N.T.S.



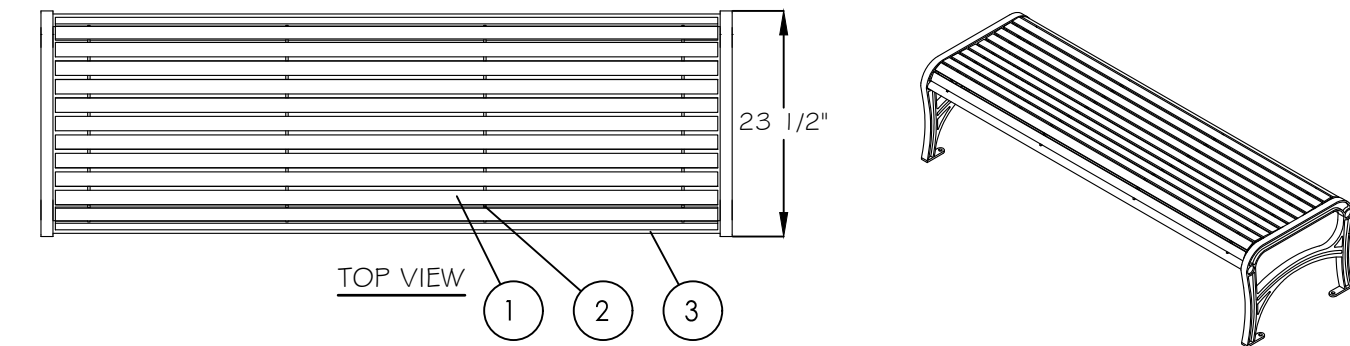
10 5 HANDICAP PARKING SIGN
N.T.S.

SIGN COLORS:
LETTERS AND BORDER - GREEN
WHITE H.C. SYMBOLS ON BLUE BACKGROUND
BACKGROUND - WHITE

10 5 HANDICAP PARKING SIGN
N.T.S.

 SITESCAPES		P.O. Box 223 Lincoln, NE 68542	PF: 402/421-9464 FX: 402/421-9479	WEBSITE: www.sitescapesonline.com E-MAIL: info@sitescapesonline.com
TITLE	WESTPORT FLAT BENCH	PRODUCT NO.	WP1-111	INCH TOLERANCES U.O.S.
				FRACTION--1/16" ANG--1/4"
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SITESCAPES, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SITESCAPES, INC. IS PROHIBITED.				

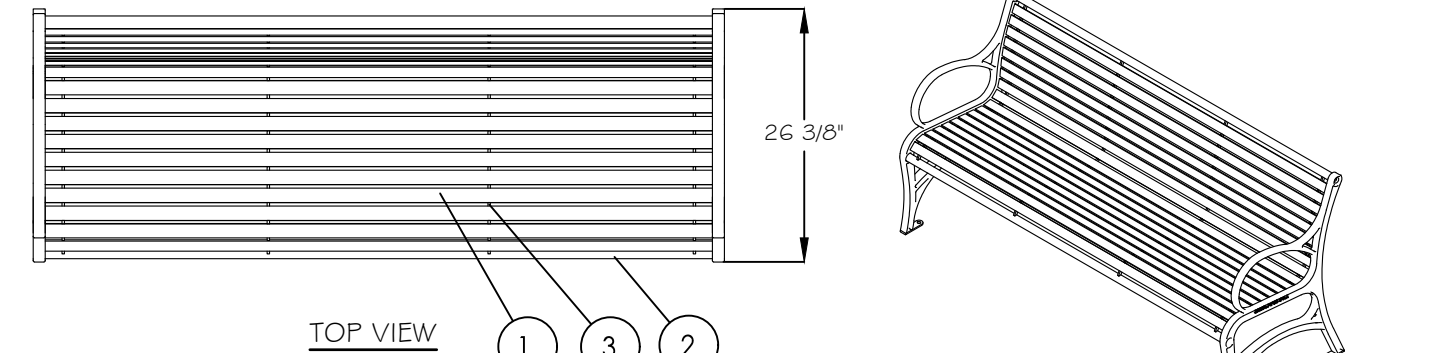
- MATERIALS LIST
- (1) SEAT STRAPS - 1/4" X 1 1/2" STEEL FLAT BAR
 - (2) SUPPORT STRAPS - 1/4" SHEET META
 - (3) SUPPORT PIPES - Ø1.315" X .133" STEEL PIPE
 - (4) END UNITS - 1 1/4" CAST IRON WITH 9/16" MOUNTING HOLES



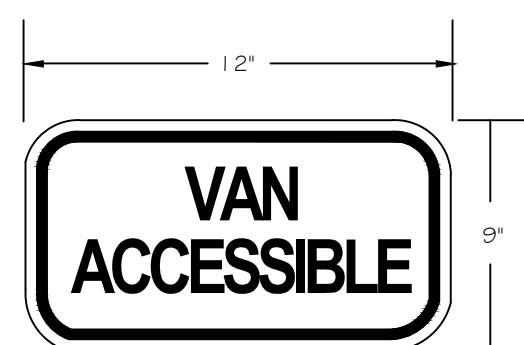
3 5 WESTPORT FLAT BENCH BACKLESS WP1-1110 (6 FT)
N.T.S. QTY -2

	SITESCAPES	P.O. Box 223 Lincoln, NE 68542	PF: 402/421-9464	WEBSITE: www.sitescapesonline.com
			FX: 402/421-9479	
TITLE	WESTPORT FLAT BENCH	PRODUCT NO.	INCH TOLERANCES U.O.S.	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SITESCAPES, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SITESCAPES, INC. IS PROHIBITED.
		WPI-1010	FRACTION--1/16" ANG--1/4"	

- MATERIALS LIST
- (1) SEAT STRAPS - 1/4" X 1 1/2" STEEL FLAT BAR
 - (2) SUPPORT STRAPS - 1/4" SHEET META
 - (3) SUPPORT PIPES - Ø1.315" X .133" STEEL PIPE
 - (4) END UNITS - 1 1/4" CAST IRON WITH 9/16" MOUNTING HOLES



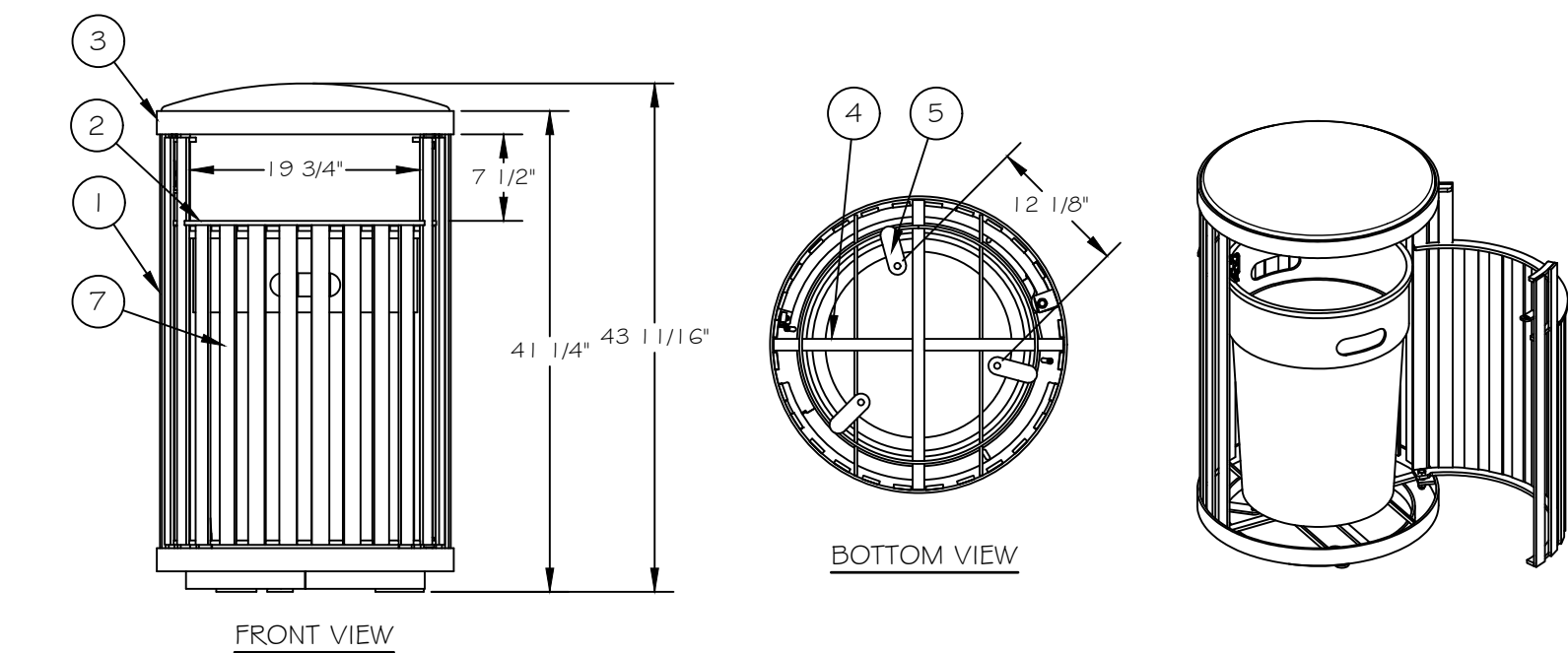
8 5 WESTPORT FLAT BENCH BACKLESS WP1-1010 (6 FT)
N.T.S. QTY -4



11 5 VAN PLACARD
N.T.S.

		SITESCAPES		P.O. Box 22326 Lincoln, NE 68542		PF: 402/421-9464 FX: 402/421-9479		WEBSITE: www.sitescapesonline.com E-MAIL: info@sitescapesonline.com	
TITLE		NEWCASTLE TRASH RECEPTACLE		PRODUCT NO.		NC2-2107		INCH TOLERANCES U.O.S.	
						FRACTION-- 1/16" ANG-- 1/4"		THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SITESCAPES, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SITESCAPES, INC. IS PROHIBITED.	

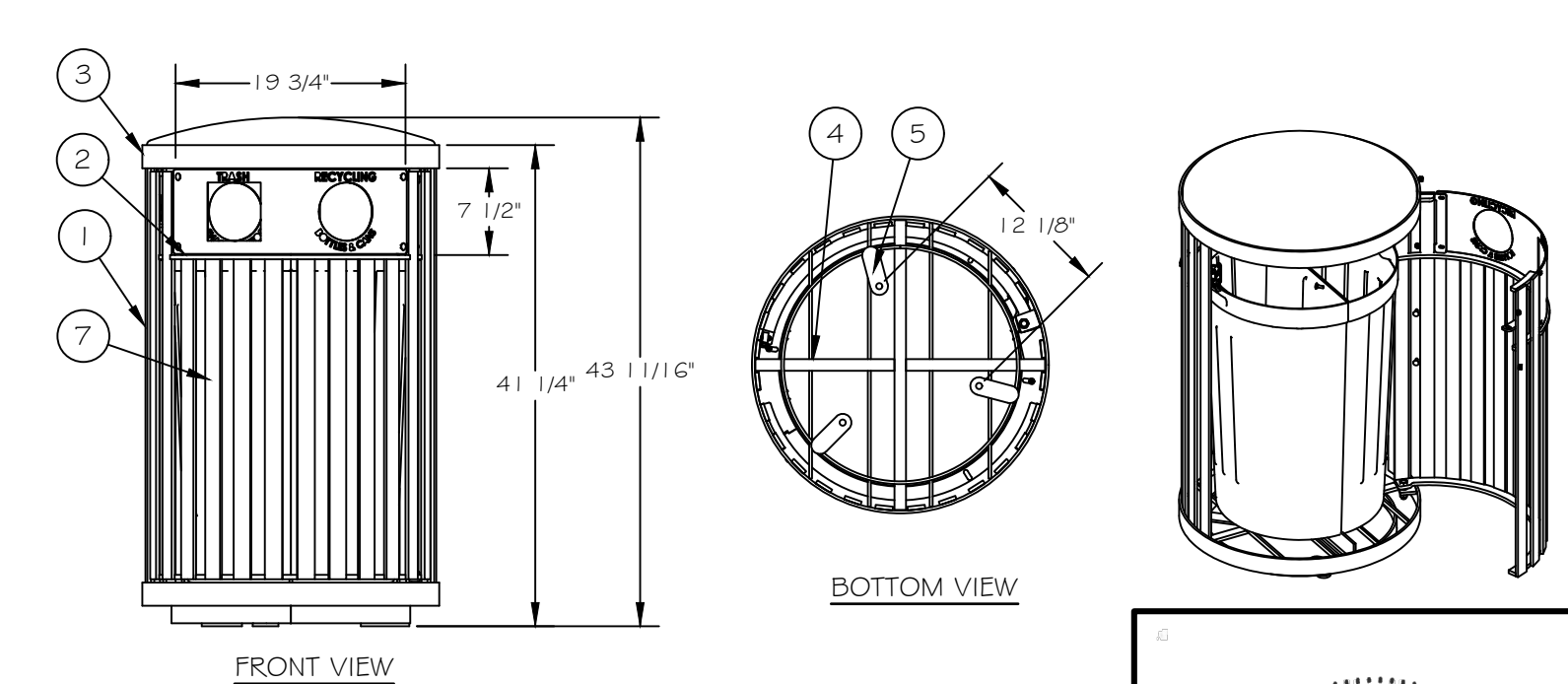
- MATERIALS LIST
- (1) VERTICAL STRAPS - 5/16" X 1 1/2" STEEL FLAT BAR
 - (2) OPENING SUPPORT BARS - 3/8" X 7/8" STEEL FLAT BAR
 - (3) SUPPORT RINGS - 1/4" X 2" STEEL FLAT BAR
 - (4) SUPPORT BARS - 1/2" X 1" STEEL FLAT BAR
 - (5) SURFACE MOUNT PLATES - 1/4" X 1 1/2" STEEL PLATE WITH 9/16" MOUNTING HOLE Ø
 - (6) LID - 24" X 12 GAUGE WALL STEEL SPUN LID
 - (7) HINGED DOOR WITH STAINLESS STEEL LATCH AND HINGES Ø
 - (8) MOUNTED WITH THREE 1/2" X 4-5" STAINLESS STEEL ANCHOR BOLTS (CUSTOMER SUPPLIED)
 - (9) 36 GALLON RIGID PLASTIC LINER WITH HANDLES INCLUDED



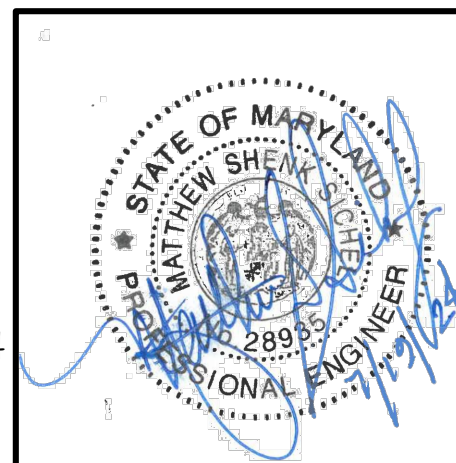
4 5 NEWCASTLE TRASH RECEPTACLE - NC2-2107
N.T.S. QTY -4

		SITESCAPES	P.O. Box 22326 Lincoln, NE 68542	PF: 402/421-9464 FX: 402/421-9479	WEBSITE: www.sitescapesonline.com E-MAIL: info@sitescapesonline.com
TITLE	NEWCASTLE TRASH RECEPTACLE		PRODUCT NO.	NC2-2107R	
INCH TOLERANCES U.O.S.			FRACTION--1/16" ANG--1/4"		
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SITESCAPES, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SITESCAPES, INC. IS PROHIBITED.					

- MATERIALS LIST
- (1) VERTICAL STRAPS - 5/16" X 1 1/2" STEEL FLAT BAR
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 - (3) SUPPORT RINGS - 1/4" X 2" STEEL FLAT BAR
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 - (9) 36 GALLON RIGID PLASTIC LINER WITH HANDLES INCLUDED

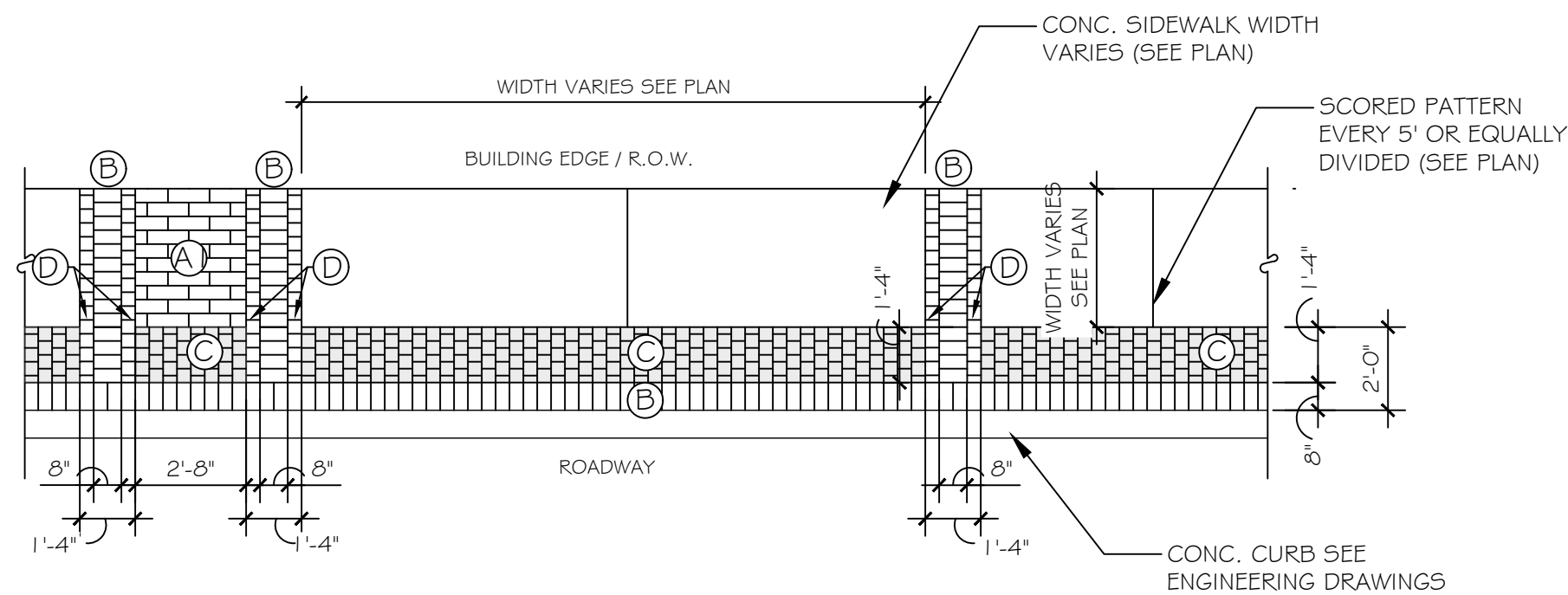


12 5 NEWCASTLE TRASH RECEPTACLE - NC2-2107R
N.T.S. QTY -4

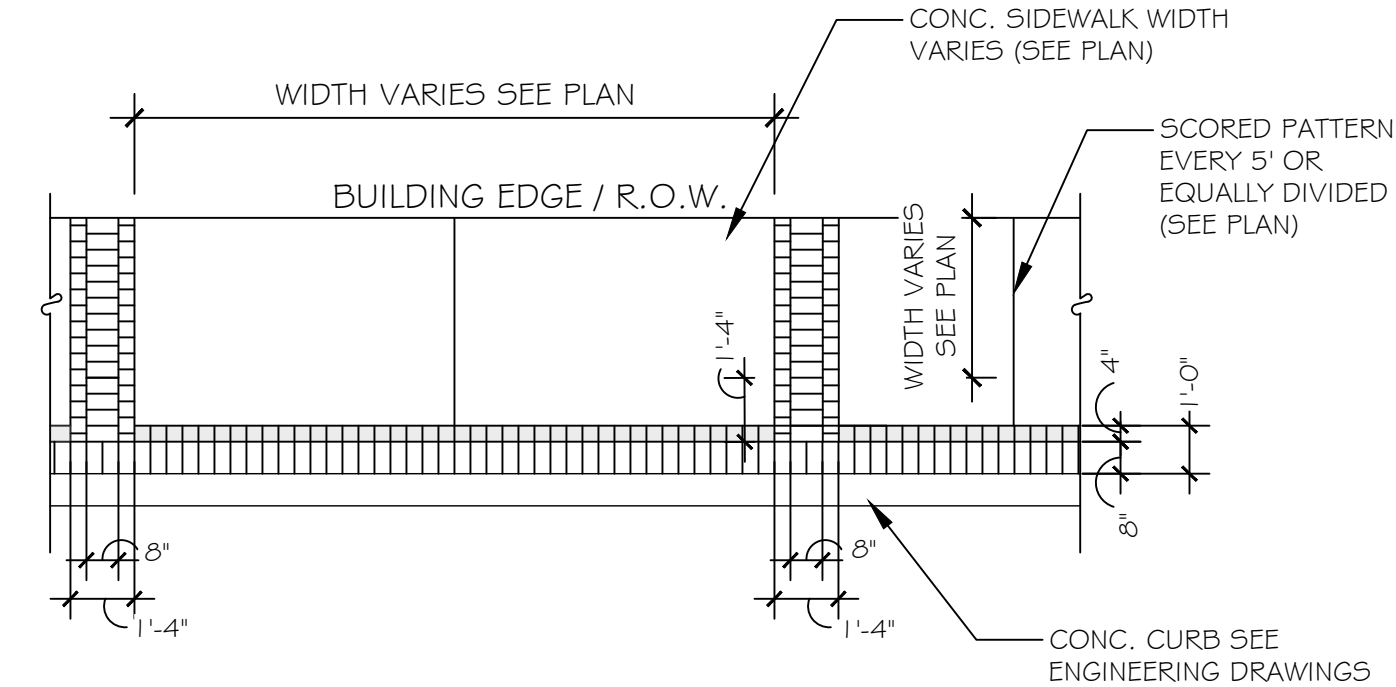


PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 28935 EXP. DATE: 1/15/2025

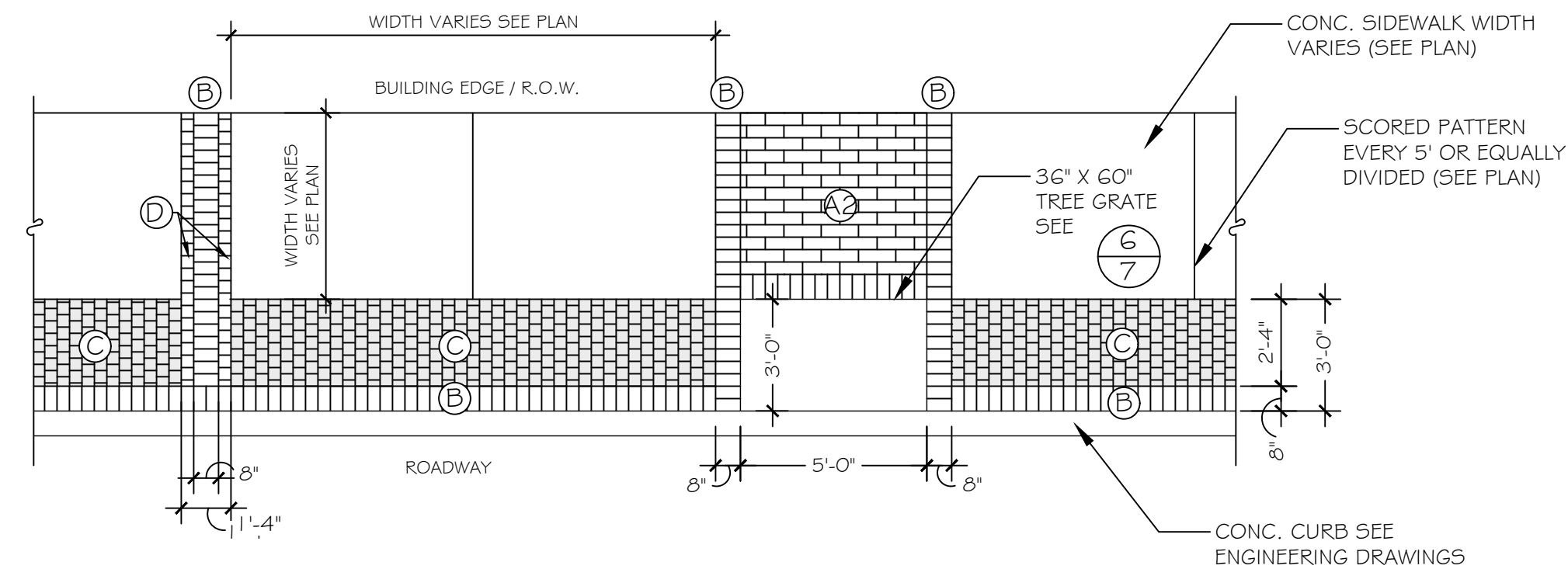
ENGINEER KCI TECHNOLOGIES, INC. 936 RIDGEBROOK ROAD SPARKS, MD 21152 CONTACT: TONY MEYERS EMAIL: TONY.MEYERS@KCI.COM PHONE: (410) 316-7898	OWNER / APPLICANT TOWN OF SYKESVILLE 7547 MAIN STREET SYKESVILLE, MD 21784 ATTN: MR. JOE COSENTINI EMAIL: JOESENTINI@SYKESVILLE.NET PHONE: (410) 795-8959	ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS KCI TECHNOLOGIES 936 RIDGEBROOK ROAD SPARKS, MD 21152 TELEPHONE: (410) 316-7800 FAX: (410) 316-7818	REVISIONS NO. DATE DESCRIPTION BY	DATE 11/13/2024 SCALE NTS DESIGNED BY KCI CHECKED BY KCI	SITE DETAILS - GRADING ONLY PLANS MAIN STREET IMPROVEMENTS TOWN OF SYKESVILLE SYKESVILLE, MD 21784 CARROLL COUNTY 13TH ELECTION DISTRICT	DRAWING NO. C-05 SHEET 5 OF 22 KCI JOB NUMBER 272206100.03
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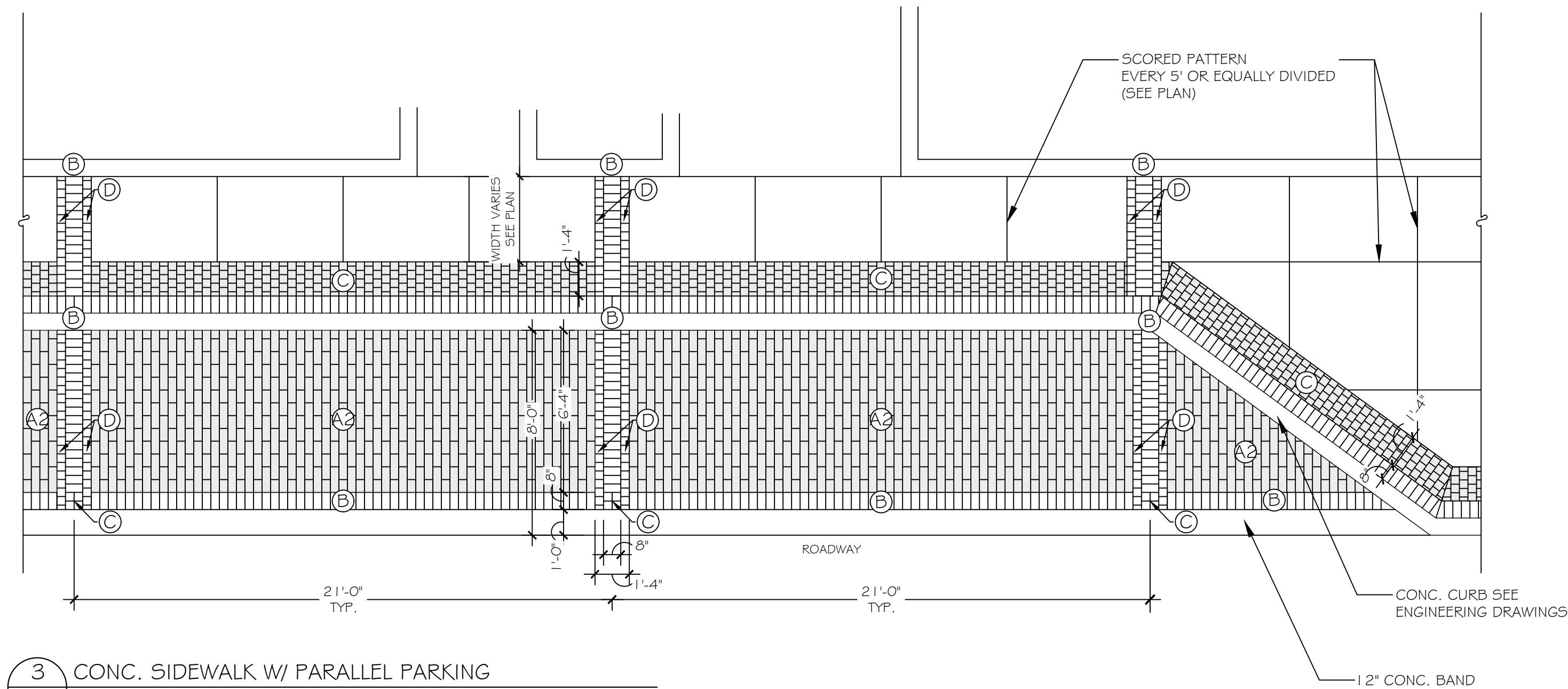
1a CONC. SIDEWALK 'A' (TYP.)
1/4" = 1'



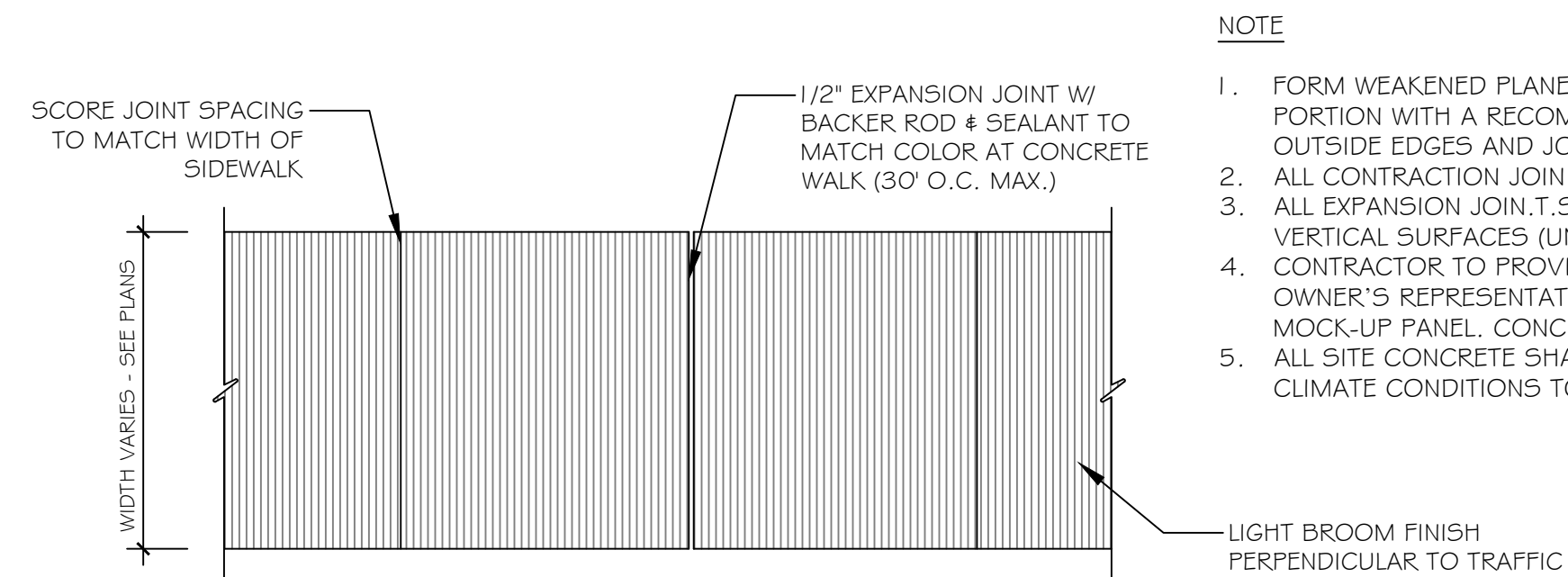
1b CONC. SIDEWALK 'B' (TYP.)
1/4" = 1'



2 CONC. SIDEWALK WITH TREE GRATE (TYP.)
1/4" = 1'



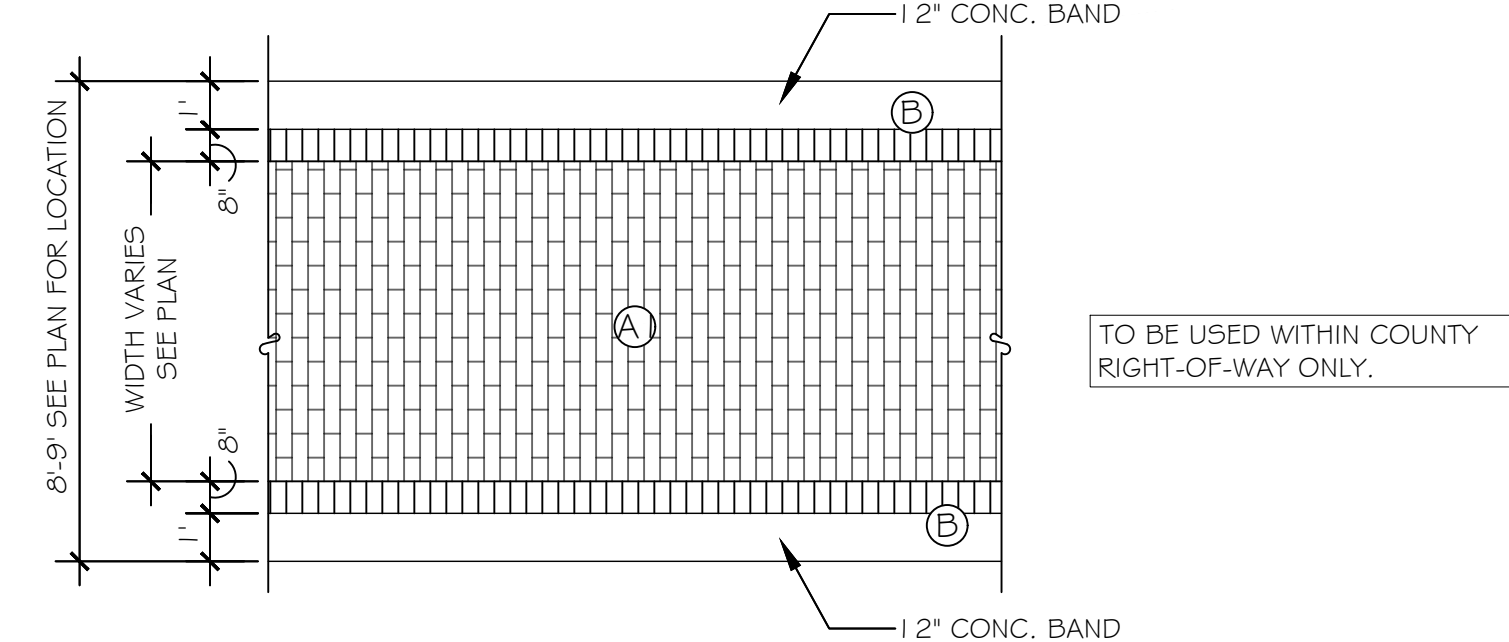
3 CONC. SIDEWALK W/ PARALLEL PARKING
1/4" = 1'



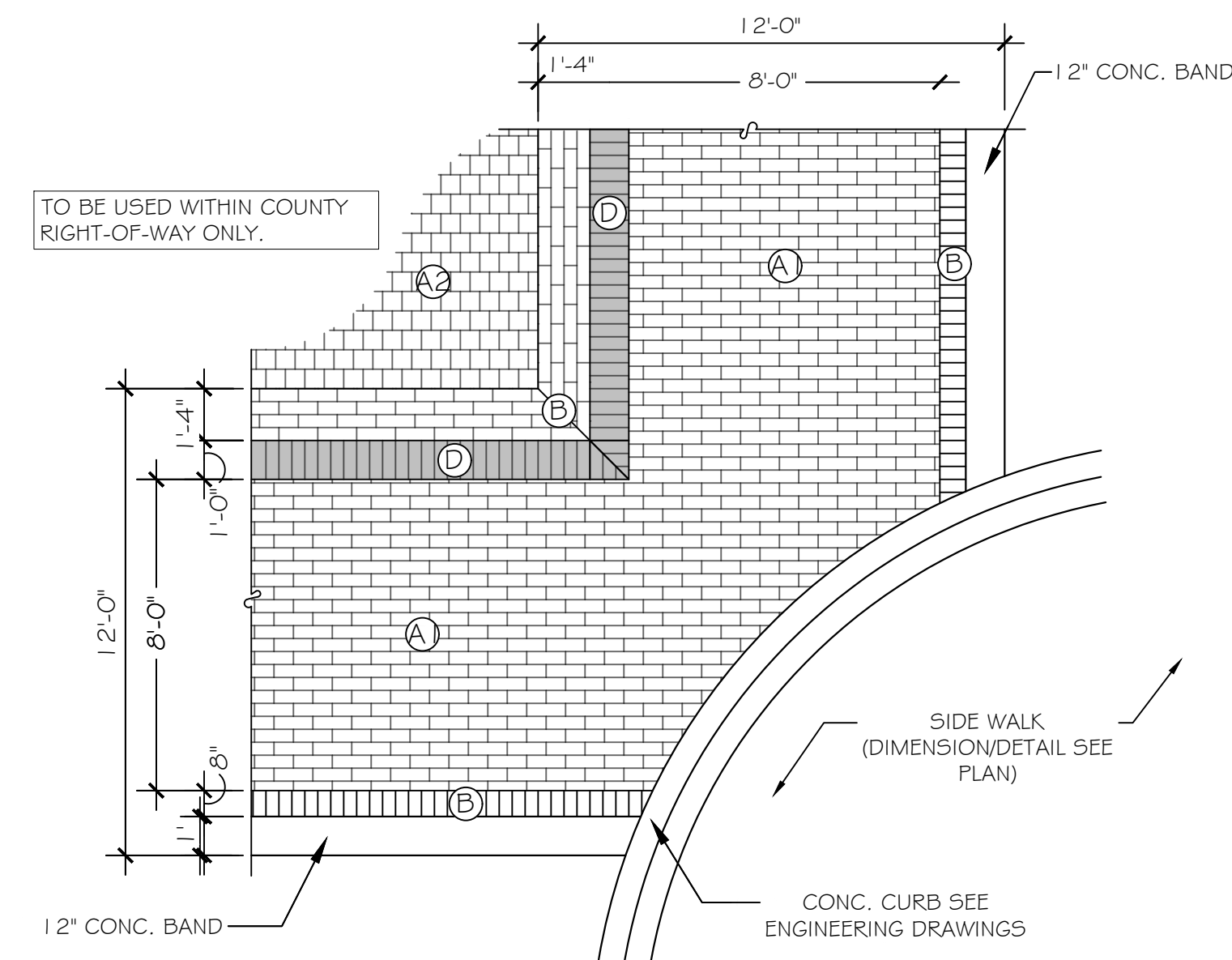
7 CONC. SIDEWALK
1/4" = 1'

NOTE

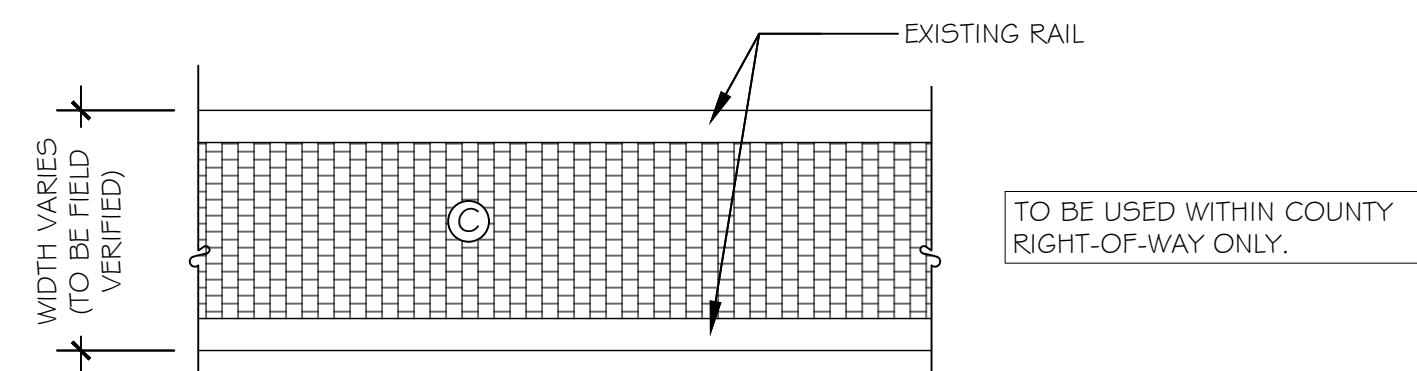
1. FORM WEAKENED PLANE JOINT.T.S. (CONTRACTION JOINT.T.S.) IN FRESH CONCRETE BY GROOVING TOP PORTION WITH A RECOMMENDED CUTTING TOOL AND FINISHING EDGES WITH A JOINTER. FORM OUTSIDE EDGES AND JOINT.T.S. WITH A SMOOTH MAGNESIUM 1/4" RADIUS EDGING TOOL.
2. ALL CONTRACTION JOINT.T.S. SHALL BE MADE AT 90° TO CONCRETE SURFACE (PERPENDICULAR).
3. ALL EXPANSION JOINT.T.S. SHALL EXTEND THE FULL WIDTH OF PAVEMENT LIMITS AND/OR TO ALL VERTICAL SURFACES (UNLESS OTHERWISE NOTED).
4. CONTRACTOR TO PROVIDE MOCK-UP PANEL OF CONCRETE FINISH WORK FOR APPROVAL BY THE OWNER'S REPRESENTATIVE. CONCRETE FINISH WORK SHALL MEET THE STANDARDS OF THE APPROVED MOCK-UP PANEL. CONCRETE SECTIONS NOT MEETING MOCK-UP PANEL STANDARD WILL BE REJECTED.
5. ALL SITE CONCRETE SHALL BE AIR ENTRAINED PER SPECIFICATIONS INSTITUTE STANDARDS AND LOCAL CLIMATE CONDITIONS TO PREVENT FREEZE-THAW DAMAGE AND SPALLING.



4 SPECIAL PAVING CROSSWALK (TYP.)
1/4" = 1'

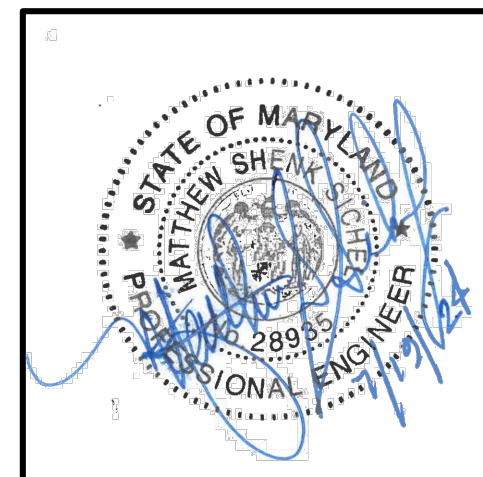


5 SPECIAL PAVING CROSSWALK AT INTERSECTION (TYP.)
1/4" = 1'



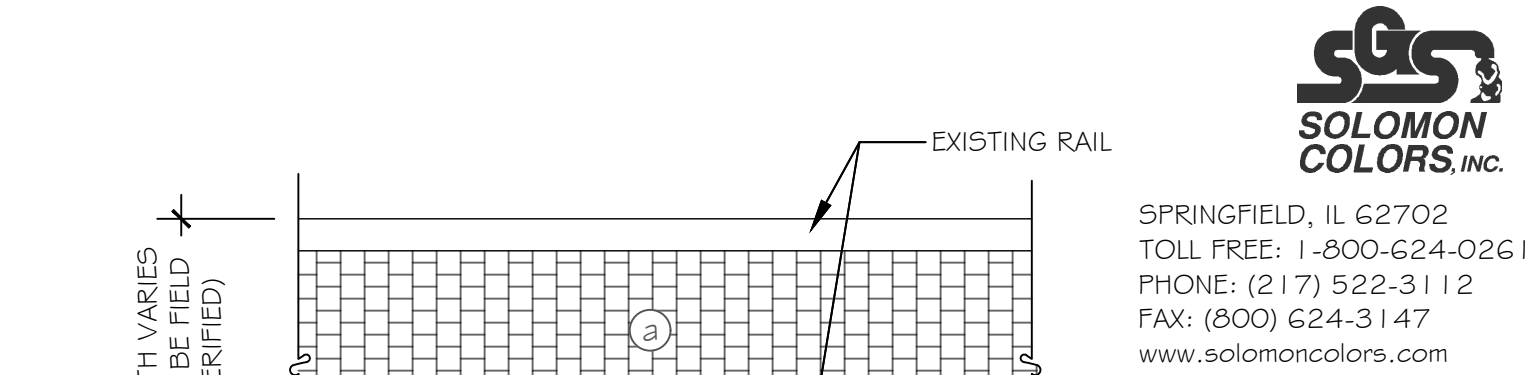
6 SPECIAL PAVING - RAIL TRACK PAVEMENT (TYP.)
1/4" = 1'

(A) TRADITIONAL HANOVER® PREST® BRICK SIZE: 4"x8" COLOR: NEW RUSSET RUNNING BOND (DIRECTION AS SHOWN)	 	TRADITIONAL HANOVER® PREST® BRICK COLOR: NEW RUSSET
(A2) TRADITIONAL HANOVER® PREST® BRICK SIZE: 4"x8" COLOR: NATURAL/CHARCOAL RUNNING BOND (DIRECTION AS SHOWN)	 	TRADITIONAL HANOVER® PREST® BRICK COLOR: NATURAL/CHARCOAL
(B) TRADITIONAL HANOVER® PREST® BRICK SIZE: 4"x8" COLOR: RED CHARCOAL BLEND SOLDIER COURSE	 	TRADITIONAL HANOVER® PREST® BRICK COLOR: RED/CHARCOAL
(C) TRADITIONAL HANOVER® APPIAN® TUMBLE FINISH SIZE: 3"x6", 4"x6", AND 6"x6" COLOR: GETTYSBURG GRAY	 	TRADITIONAL HANOVER® APPIAN® TUMBLE FINISH COLOR: GETTYSBURG GRAY
(D) TRADITIONAL HANOVER® PREST® BRICK W/ COBBLE SIZE: 4"x8" (W APPEARANCE OF TWO 4" X 4" UNITS) COLOR: CHARCOAL GRAY	 	TRADITIONAL HANOVER® PREST® BRICK COLOR: CHARCOAL GRAY
(E1) TRADITIONAL HANOVER® PREST® BRICK SIZE: 4"x8" COLOR: NATURAL/CHARCOAL HERRINGBONE (DIRECTION AS SHOWN)	 	TRADITIONAL HANOVER® PREST® BRICK COLOR: NATURAL/CHARCOAL
(E2) TRADITIONAL HANOVER® PREST® BRICK SIZE: 4"x8" COLOR: NEW RUSSET HERRINGBONE (DIRECTION AS SHOWN)	 	TRADITIONAL HANOVER® PREST® BRICK COLOR: NEW RUSSET
(E3) TRADITIONAL HANOVER® PREST® BRICK SIZE: 4"x8" COLOR: TAN/CHARCOAL BLEND HERRINGBONE (DIRECTION AS SHOWN)	 	TRADITIONAL HANOVER® PREST® BRICK COLOR: TAN/CHARCOAL BLEND

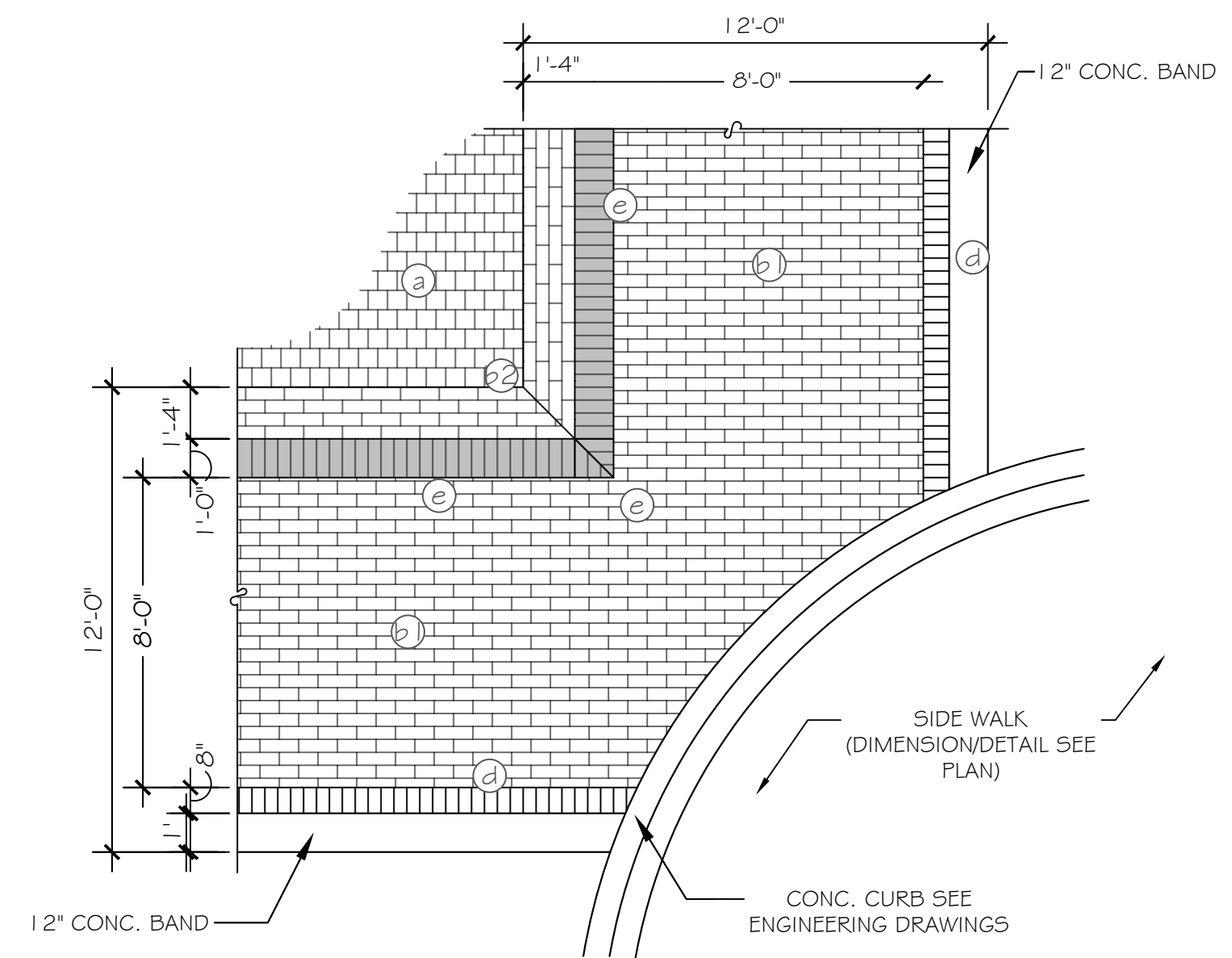


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LICENSE NO. 28935 EXP. DATE: 1/15/2025

ENGINEER KCI TECHNOLOGIES, INC. 936 RIDGEBROOK ROAD SPARKS, MD 21152 CONTACT: TONY MEYERS EMAIL: TONY.MEYERS@KCI.COM PHONE: (410) 316-7898	OWNER / APPLICANT TOWN OF SYKESVILLE 7547 MAIN STREET SYKESVILLE, MD 21784 ATTN: MR. JOE COSENTINI EMAIL: JCOSENTINI@SYKESVILLE.NET PHONE: (410) 795-8959	ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS KCI TECHNOLOGIES 936 RIDGEBROOK ROAD SPARKS, MD 21152 TELEPHONE: (410) 316-7800 FAX: (410) 316-7818	<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	REVISIONS				NO.	DATE	DESCRIPTION	BY																					DATE: 11/13/2024 SCALE: 1/4" = 1' DESIGNED BY: KCI CHECKED BY: KCI	SITE DETAILS - GRADING ONLY PLANS MAIN STREET IMPROVEMENTS TOWN OF SYKESVILLE SYKESVILLE, MD 21784	DRAWING NO. C-06 SHEET 6 OF 22 KCI JOB NUMBER 272206100.03
REVISIONS																																		
NO.	DATE	DESCRIPTION	BY																															



1 STAMPED CONC. - RAIL TRACK PAVEMENT
1/4" = 1'



2 STAMPED CONC. CROSSWALK AT INTERSECTION (TYP.)
1/4" = 1'

NOTES:

- OWNER'S REPRESENTATIVE & LANDSCAPE ARCHITECT TO APPROVE FINAL MATERIAL AND COLOR SELECTION AFTER REVIEW OF FIELD MOCK-UP PANELS.
- ALL CENTER POINT FOR PROPOSED PLAZA AND ASSOCIATED HARDSCAPE FEATURES RADII SHALL BE COMPUTED FOR STAKEOUT PURPOSES
- GEOTECHNICAL ENGINEER MUST APPROVE SUBSURFACE BASE PREPARATION, I.E. COMPACTED, CRUSHED, AGGREGATE BASE PRIOR TO CONSTRUCTION OF MASONRY STRUCTURES OR WALKS.
- PLANTING SHOWN FOR ILLUSTRATIVE PURPOSES ONLY - SEE PLANTING PLAN
- ALL HARDSCAPE TO BE INSTALLED PER SPECIFIED MANUFACTURER PERFORMANCE SPECIFICATIONS.

PAVING PLAN KEY:

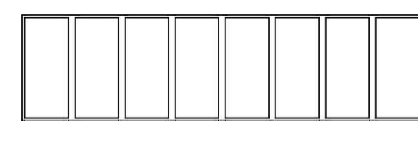
- STAMPED CONCRETE TO BE USED WITHIN SHA RIGHT-OF-WAY ONLY.
- COLOR STAMP CONCRETE
PATTERN: BRICKFORM® STAMP
6" X 6" EDINBURGH COBBLE, FM-520
COLOR: SOLOMON COLORS 'MUSHROOM'
 - COLOR STAMP CONCRETE
PATTERN: BRICKFORM® STAMP
RUNNING BOND NEW BRICK, FM-5150 S/O
COLOR: SOLOMON COLORS 'SIENNA'
 - COLOR STAMP CONCRETE
PATTERN: BRICKFORM® STAMP
HERRINGBONE NEW BRICK (FINE GROUT), FM-5050 S/O
COLOR: SOLOMON COLORS 'CURRENT'
 - COLOR STAMP CONCRETE
PATTERN: BRICKFORM® STAMP
4" X 8" NEW BRICK BORDER, FM-5325 S/O
COLOR: SOLOMON COLORS 'CURRANT'
 - COLOR STAMP CONCRETE
PATTERN: BRICKFORM® STAMP
4" X 12" BRICK BORDER, TM-1000
COLOR: SOLOMON COLORS 'SLATE'

NOTES:

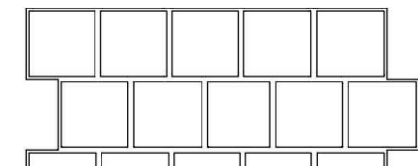
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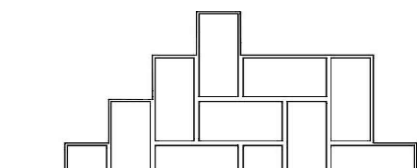


4" X 8" NEW BRICK BORDER, FM-5325 S/O
8.5" X 32.25" (21.59 X 81.92 CM)
A BORDER OF NEW BRICKS LAID SIDE-BY-SIDE.
MATCHING SKIN / TOUCH-UP WHEEL: NEW BRICK / FM-6570.

JOINT SIZE 3/8" - 1/2" WIDE, 1/4" DEEP
STONE SIZE 3 1/2" WIDE, 7 1/2" LONG

6" X 6" EDINBURGH COBBLE, FM-520
26" X 36" (66.04 X 91.41 CM)
A RUGGED WEATHERED COBBLESTONE PATTERN.
MATCHING TOUCH-UP WHEEL: FM-6570.

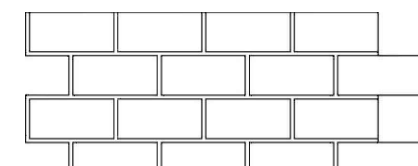
JOINT SIZE 1/2" - 3/4" WIDE, 1/2" DEEP
STONE SIZE 5 3/4" - 6" WIDE, 5 7/8" - 6 1/4" LONG



HERRINGBONE NEW BRICK (FINE GROUT), FM-5050 S/O
25.25" X 36.5" (64.13 X 92.71 CM)

A WIRE-CUT COMMON BRICK TEXTURE WITH SHARP CORNERS AND A FEW INDENTATIONS OR IRREGULARITIES OVER THE SURFACE.
MATCHING SKIN / TOUCH-UP WHEEL: NEW BRICK / FM-6540.

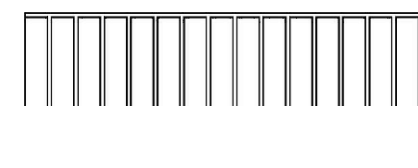
JOINT SIZE 3/8" - 1/2" WIDE, 1/4" DEEP
STONE SIZE 3 5/8" WIDE, 7 3/4" LONG



RUNNING BOND NEW BRICK, FM-1550 S/O
24" X 36.5" (60.96 X 91.71 CM)

A RUNNING BOND PATTERN WITH SMOOTH JOINTS.
MATCHING SKIN / TOUCH-WHEEL: NEW BRICK / FM-6540

JOINT SIZE 1/2" - 3/4" WIDE, 1/4" DEEP
STONE SIZE 3 1/2" WIDE, 7 1/2" LONG

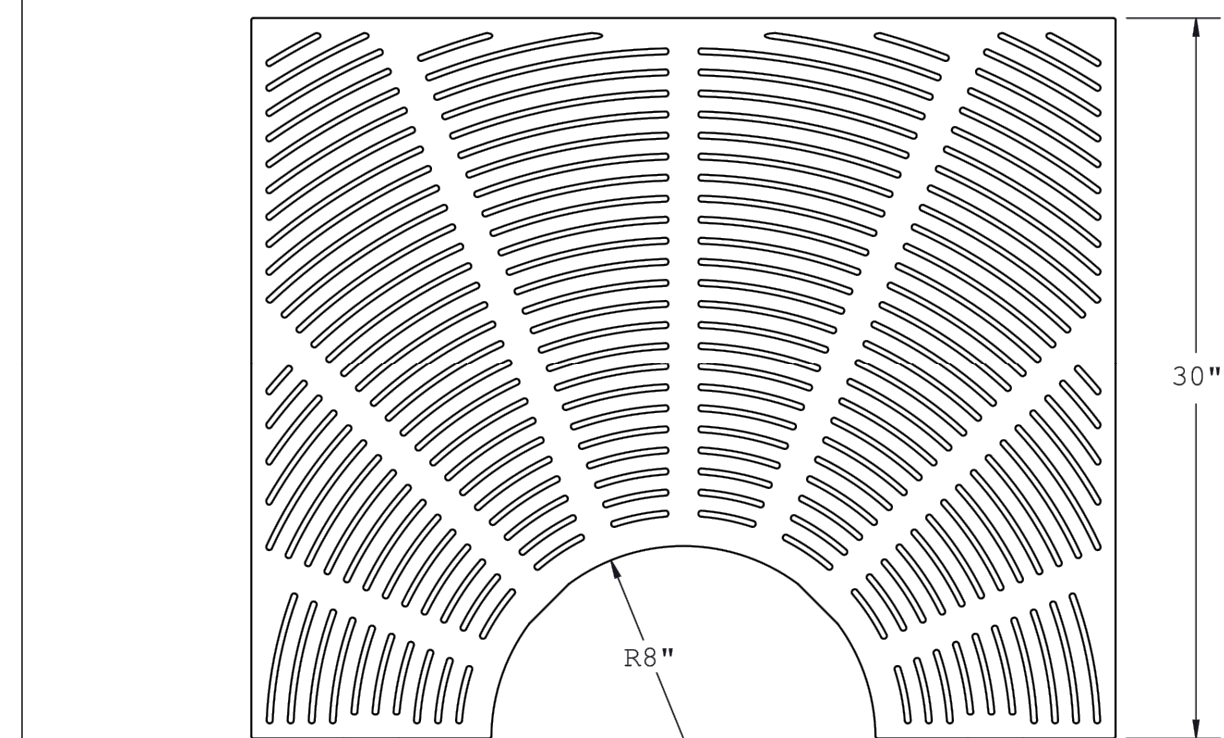


4" X 12" BRICK BORDER, TM-1000
12" X 48" (30.48 X 121.92 CM)

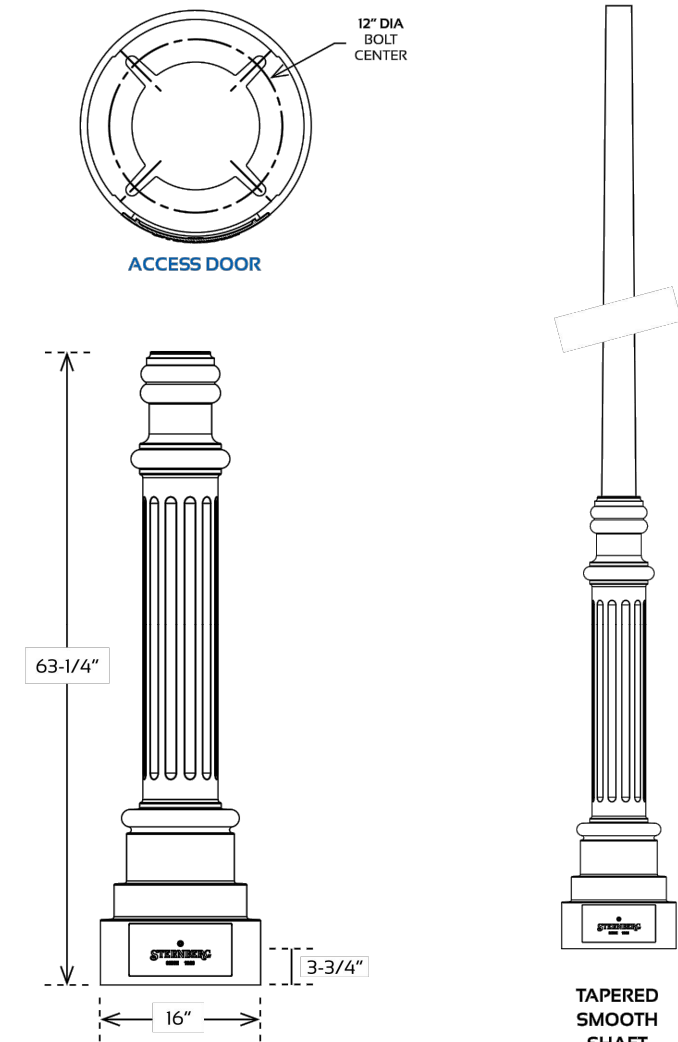
PATTERN: A
MATCHING SKIN / TOUCH-UP WHEEL: NEW BRICK / FM-6560.

JOINT SIZE 1/2" WIDE, 3/16" DEEP
STONE SIZE 3 1/2" WIDE, 11" LONG

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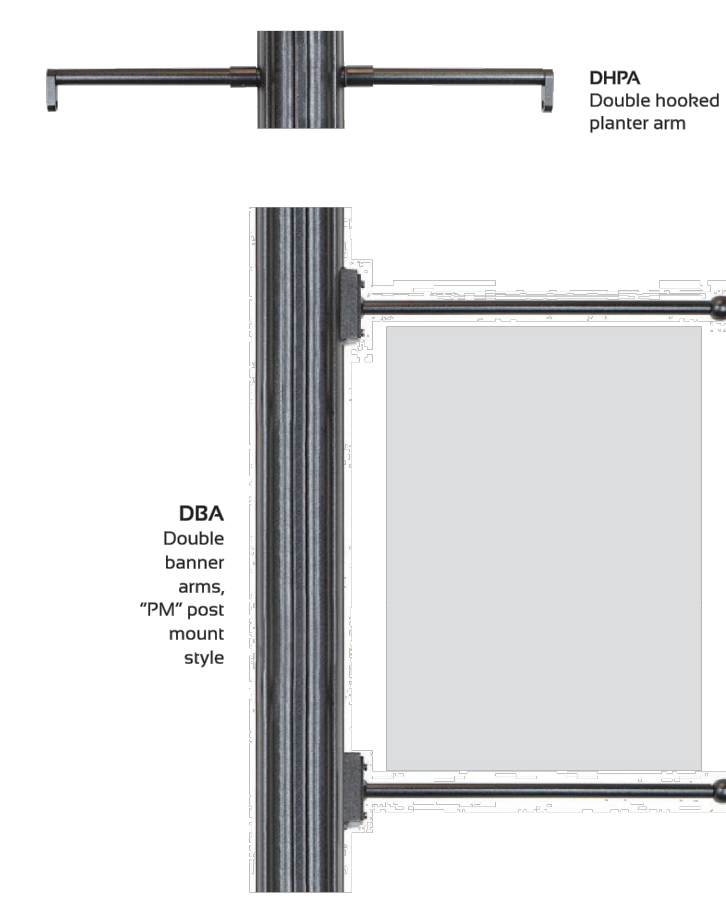


110 TINLEY PARK SERIES

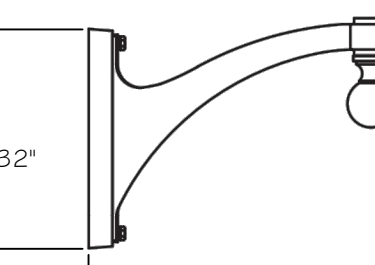
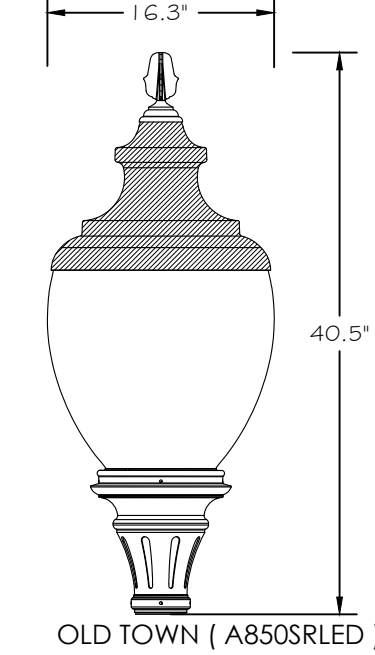


FINISH: STANDARD BKT - BLACK TEXTURED
COLORS: STANDARD ONLY (BLACK)

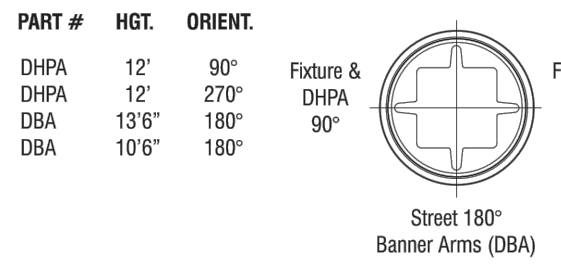
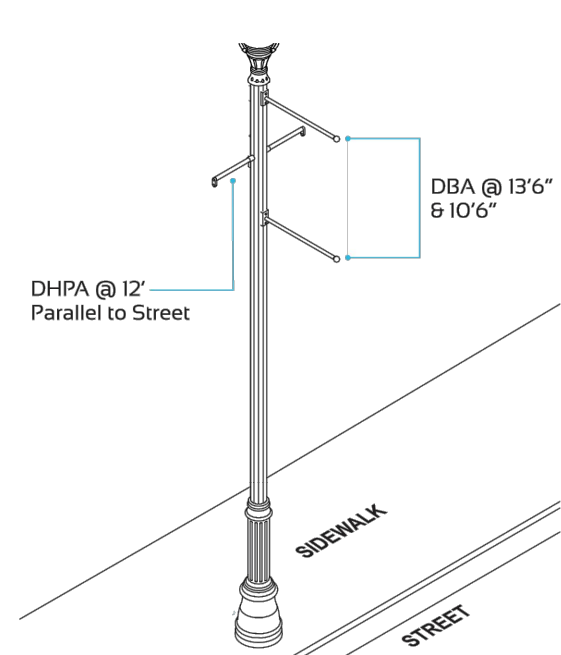
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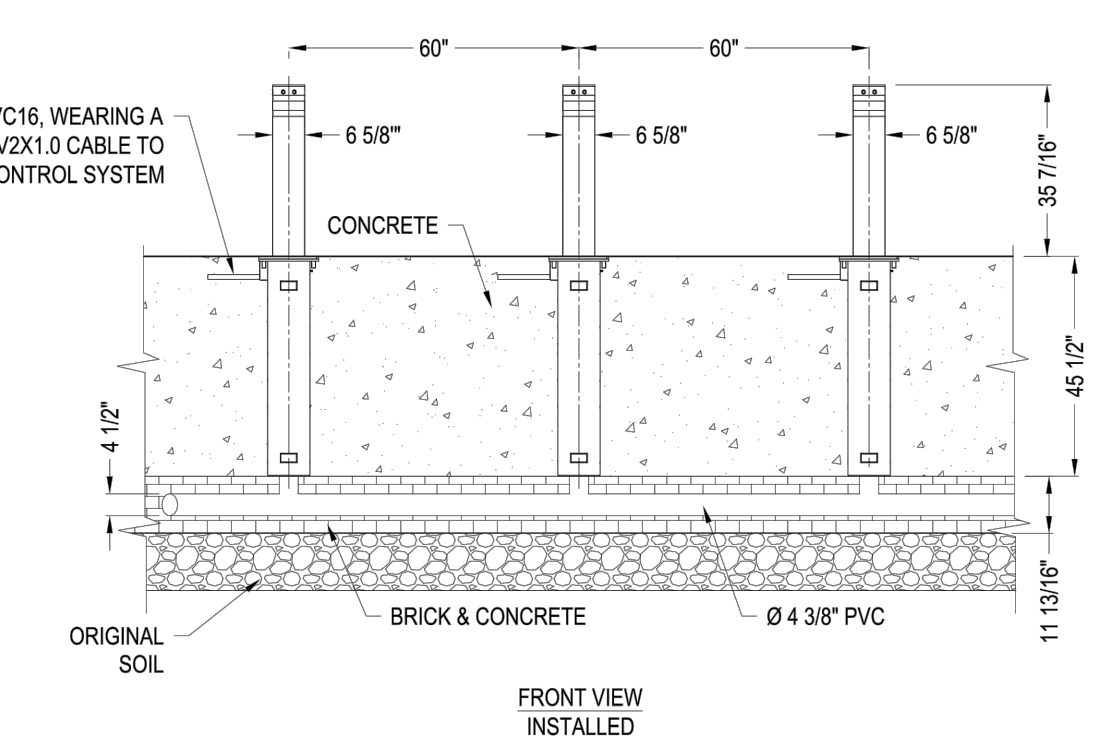
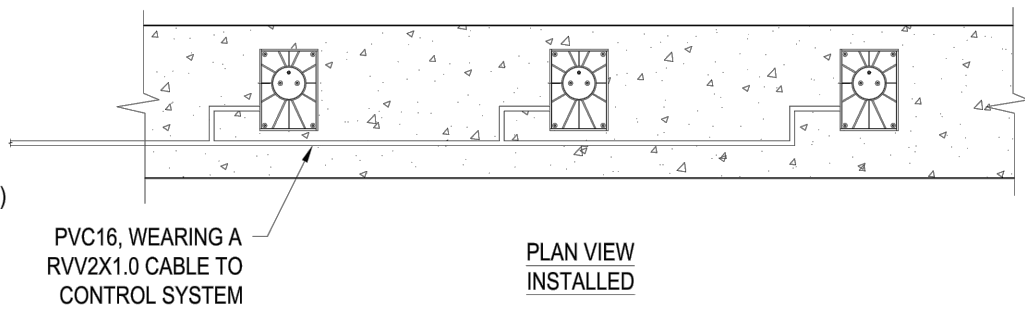
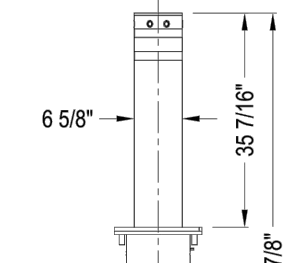
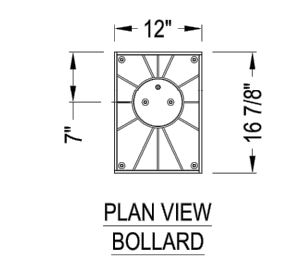
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6" ASSISTED LIFT MANUAL RETRACTABLE STAINLESS STEEL BOLLARD

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5046-087

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DATE: 1/13/2024

SCALE: NTS

DESIGNED BY: KCI

CHECKED BY: KCI

SITE DETAILS - GRADING ONLY PLANS
MAIN STREET IMPROVEMENTS
TOWN OF SYKESVILLE
SYKESVILLE, MD 21784

CARROLL COUNTY

13TH ELECTION DISTRICT

DRAWING NO.

C-07

SHEET 7 OF 22

KCI JOB NUMBER

272206100.03

4 USF 9521-S TREE GRATE

N.T.S.

QTY - 3

ENGINEER

KCI TECHNOLOGIES, INC.
936 RIDGEBROOK ROAD
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EMAIL: TONY.MEYERS@KCI.COM
PHONE: (410) 316-7898

OWNER / APPLICANT

TOWN OF SYKESVILLE
7547 MAIN STREET
SYKESVILLE, MD 21784
ATTN: MR. JOE COSENTINI
EMAIL: JCOSENTINI@SYKESVILLE.NET
PHONE: (410) 795-8959



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NO.	DATE	DESCRIPTION	BY

DATE

11/13/2024

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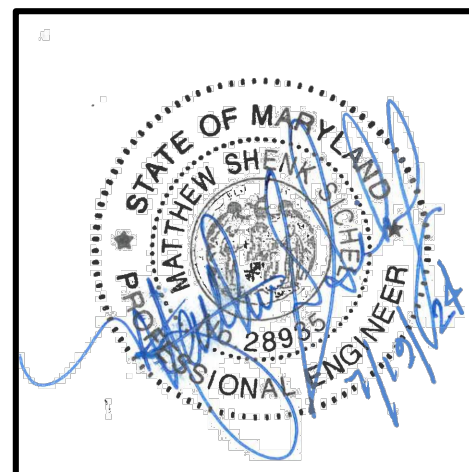
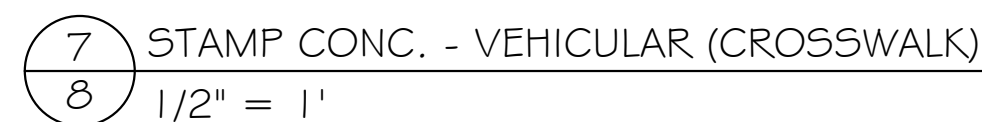
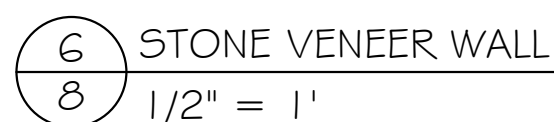
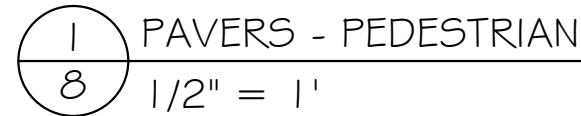
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LICENSE NO. 28935 EXP. DATE: 1/15/2025

ENGINEER KCI TECHNOLOGIES, INC. 936 RIDGEBROOK ROAD SPARKS, MD 21152 CONTACT: TONY MEYERS EMAIL: TONY.MEYERS@KCI.COM PHONE: (410) 316-7898	OWNER / APPLICANT TOWN OF SYKESVILLE 7547 MAIN STREET SYKESVILLE, MD 21784 ATTN: MR. JOE COSENTINI EMAIL: JCOSSENTINI@SYKESVILLE.NET PHONE: (410) 795-8959	 KCI TECHNOLOGIES	ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS 936 RIDGEBROOK ROAD SPARKS, MD 21152 TELEPHONE: (410) 316-7800 FAX: (410) 316-7818	REVISIONS			DATE	SITE DETAILS - GRADING ONLY PLANS MAIN STREET IMPROVEMENTS TOWN OF SYKESVILLE SYKESVILLE, MD 21784	DRAWING NO. C-08															
				<table><tr><th>NO.</th><th>DATE</th><th>DESCRIPTION</th><th>BY</th></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>	NO.	DATE	DESCRIPTION			BY													11/13/2024	SHEET 8 OF 22
					NO.	DATE	DESCRIPTION			BY														
SCALE	DESIGNED BY KCI	CHECKED BY KCI	CARROLL COUNTY	13TH ELECTION DISTRICT																				
NTS																								
KCI JOB NUMBER 272206100.03																								



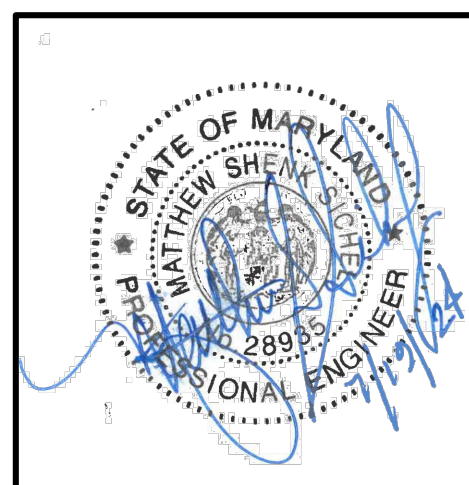
LEGEND

- LOD — LIMIT OF DISTURBANCE
- 80 — EX. MAJOR CONTOUR
- 78 — EX. MINOR CONTOUR
- GgA — SOIL DIVIDE
- GgC —
- — PROPERTY LINE
- — EX. CURB & GUTTER
- — EX. EDGE OF PAVEMENT
- W — EX. WATER
- SS — EX. SEWER
- SD — EX. STORM DRAIN
- G — EX. GAS
- FM — EX. FORCE MAIN
- E — EX. ELECTRIC
- OH — EX. OVERHEAD ELECTRIC
- — EX. FENCE
- — EX. BUILDING FOOTPRINT
- — EX. CONCRETE WALK
- SP-1 — EX. SPECIMEN TREE AND ROOT ZONE
- — EX. LIGHTPOLE
- — EX. FIRE HYDRANT
- — EX. SIGN
- — EX. DOOR
- 80 — PROP. MAJOR CONTOUR
- 78 — PROP. MINOR CONTOUR
- x 78.50 — PROP. SPOT SHOTS
- x TC:78.50 — PROP. EDGE OF PAVEMENT
- — PROP. CURB & GUTTER
- — PROP. TOP OF CURB SPOT SHOTS
- — PROP. STORM DRAIN
- — PROP. SIGN

DEPRESSED CURB SUMMARY

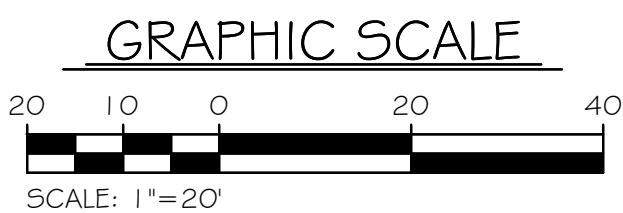
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B	10.00
C	16.00
D	12.00
E	16.00
F	17.00
G	15.00
H	11.00
I-J	81.00
K	9.50
L	14.00
M	13.00
N	15.00
O	48.43
P	16.50
Q	70.07
R	89.41

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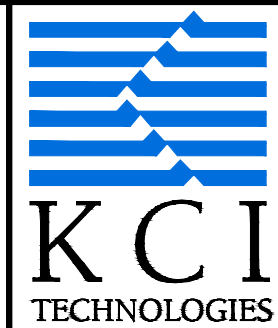


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GRADING PLAN - GRADING ONLY PLANS
MAIN STREET IMPROVEMENTS
TOWN OF SYKESVILLE
SYKESVILLE, MD 21784

CARROLL COUNTY

13TH ELECTION DISTRICT

DRAWING NO.

C-09

SHEET 9 OF 22

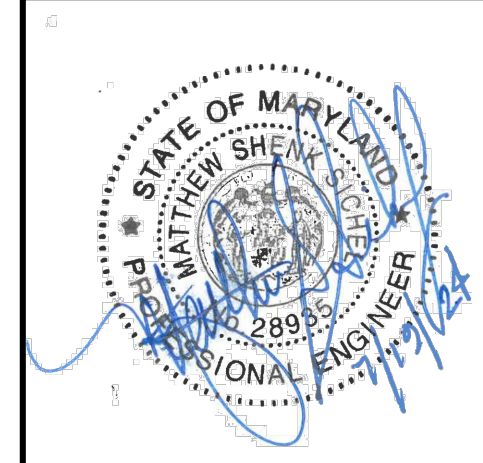
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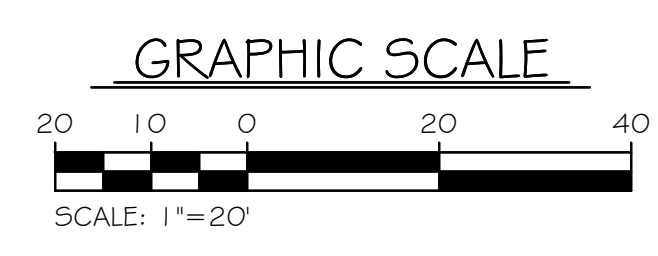


- LEGEND**
- L00 — LIMIT OF DISTURBANCE
 - 80 — EX. MAJOR CONTOUR
 - 78 — EX. MINOR CONTOUR
 - GgA**
GgC — SOIL DIVIDE
 - — — — — PROPERTY LINE
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 - — — — — PROP. STORM DRAIN
 - [] — PROP. SIGN

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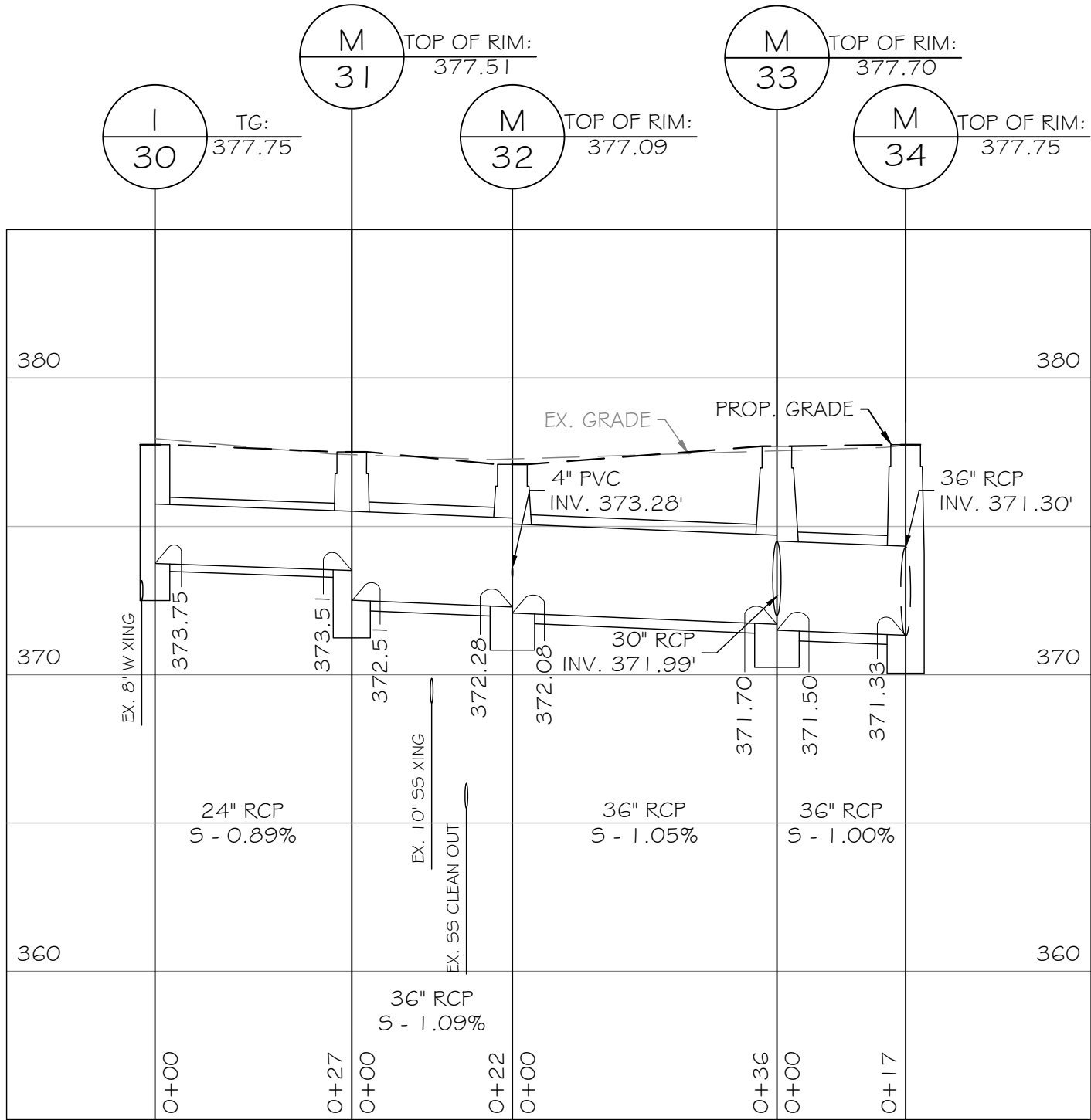
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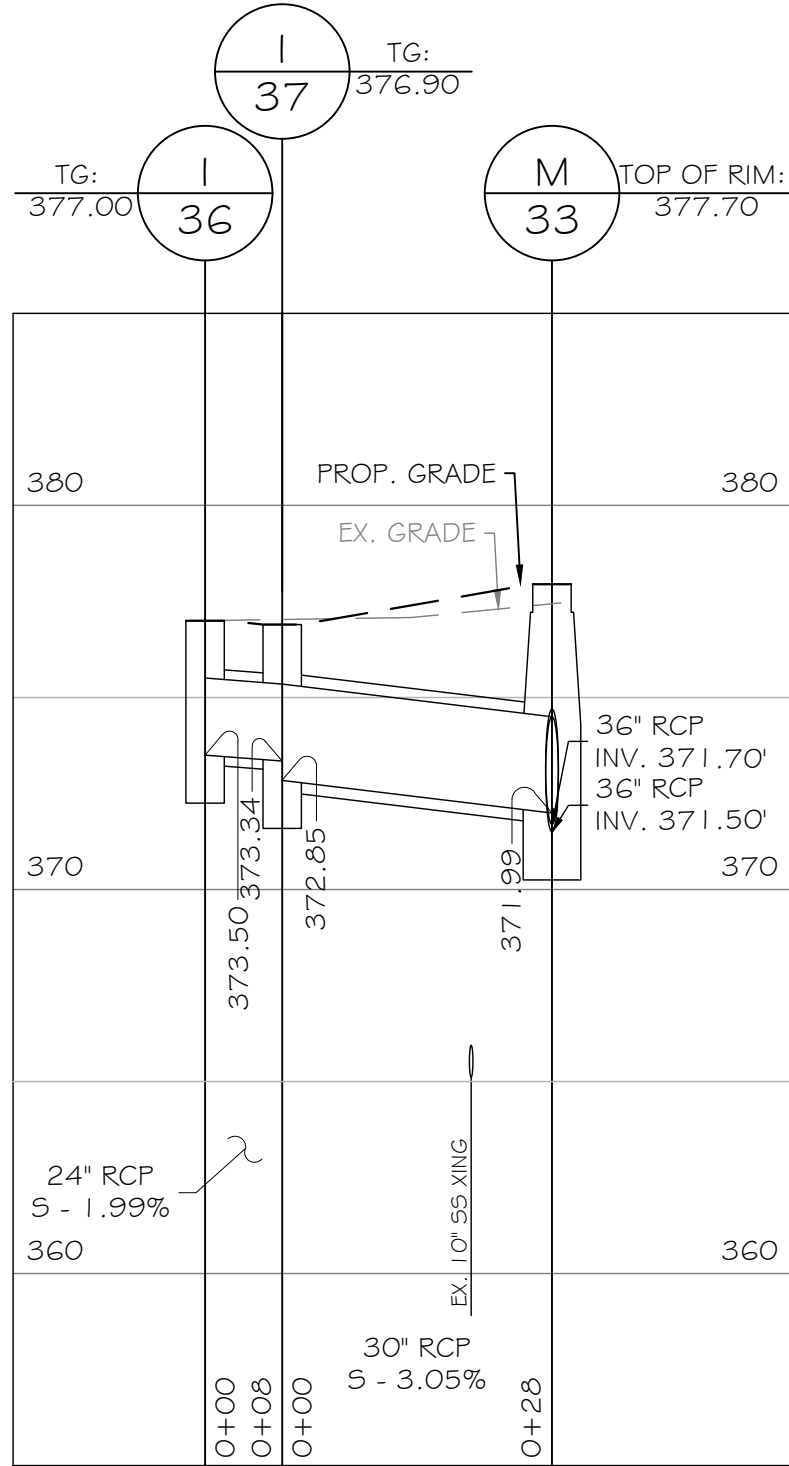
STORM DRAIN PLAN - GRADING ONLY PLANS
MAIN STREET IMPROVEMENTS
TOWN OF SYKESVILLE
SYKESVILLE, MD 21784

DRAWING NO.
C-10
SHEET 10 OF 22
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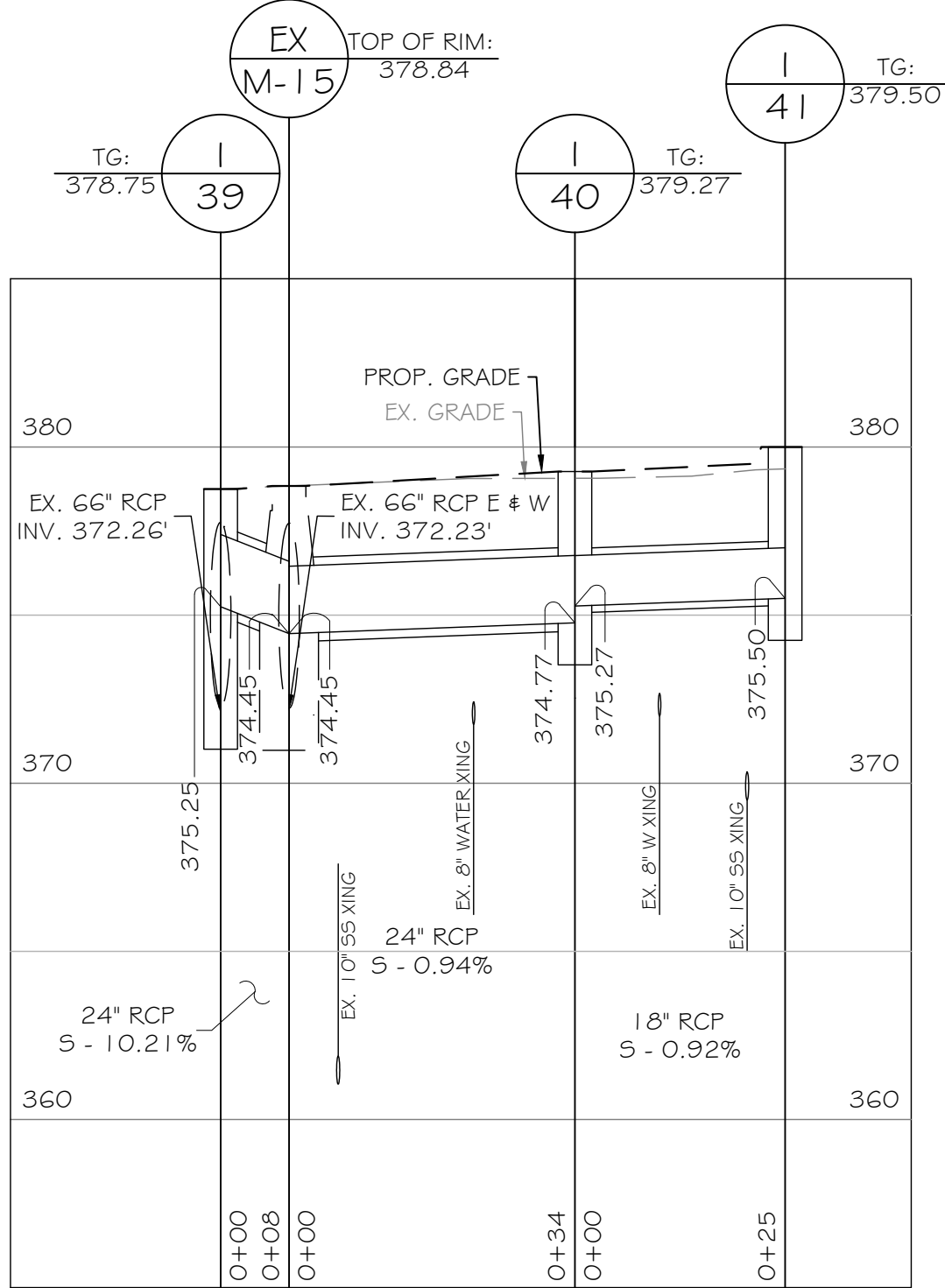
*NOTE: IF EXISTING CLEAN OUT CONFLICTS WITH PROPOSED STORM DRAIN LAYOUT USE PROPOSED CLEAN OUT TO THE RIGHT OF I-30 AS SOLUTION. IF EXISTING WATER HOUSE CONNECTION CONFLICTS WITH PROPOSED STORM DRAIN LAYOUT WHC TO BE MOVED NORTH OF PROPOSED INLET I-30.



STORM DRAIN PROFILE - OKLAHOMA AVE.
SCALE HORIZ. - 1" = 20'
SCALE VERT. - 1" = 5'



STORM DRAIN PROFILE - OKLAHOMA AVE.
SCALE HORIZ. - 1" = 20'
SCALE VERT. - 1" = 5'



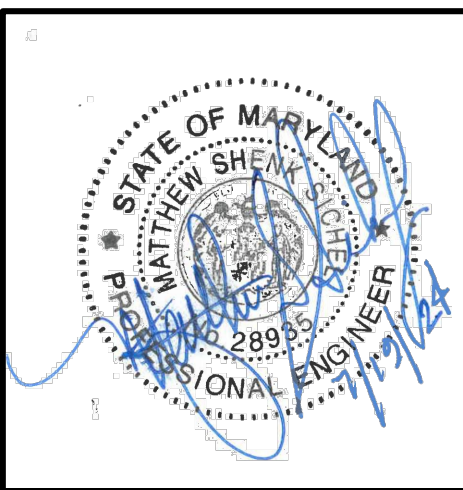
STORM DRAIN PROFILE - MAIN ST.
SCALE HORIZ. - 1" = 20'
SCALE VERT. - 1" = 5'

STORM DRAIN PIPE SUMMARY		
SIZE	TYPE	QUANTITY (LF)
4"	PVC	23
18"	RCP	25
24"	RCP	77
30"	RCP	28
30"	HDPE	14
36"	RCP	75

NOTE: CONTRACTOR TO CONFIRM LENGTHS

STORM DRAIN STRUCTURE SCHEDULE							
NO.	TYPE	PLATE	TOP ELEV.	INVERT IN	INVERT OUT	COORDINATES	
						NORTHING	EASTING
I-30	STANDARD TYPE 5 INLET	MD 379.03	377.75	-	373.75	618546.5754	1320819.5404
I-36	STANDARD TYPE 5 INLET	MD 379.03	377.00	-	373.50	618547.3694	1320869.0860
I-37	STANDARD TYPE 5 COMBINATION INLET	MD 374.71	376.90	373.34	372.85	618539.3359	1320869.2204
I-38	RECTANGULAR COS INLET 5'	MD 374.61	378.36	-	374.24	618522.6920	1320977.3286
I-39	STANDARD WRM INLET	MD 374.05	378.75	375.27	375.26	618552.3489	1321021.7730
I-40	RECTANGULAR COS INLET 5'	MD 374.61	379.27	375.27	374.77	618587.6043	1321032.3833
I-41	RECTANGULAR COS INLET 5'	MD 374.61	379.50	-	375.50	618594.2557	1321032.3833
S-35	ROTONDO STORM GARDEN	SEE DETAIL SHEET C-19	376.50	-	373.28	618521.1627	1320847.8199
M-31	60" PRECAST MANHOLE	MD 384.03	377.51	373.51	372.51	618520.1494	1320821.9384
M-32	72" PRECAST MANHOLE	MD 384.05	377.09	372.28 (36") 373.28 (41")	372.08	618506.0354	1320838.3503
M-33	72" PRECAST MANHOLE	MD 384.05	377.09	371.99 (30") 372.77 (36")	372.27 (66")	618511.5637	1320873.5786
M-34	60" PRECAST MANHOLE	MD 384.03	377.75	371.33	371.30	618514.2555	1320890.7318

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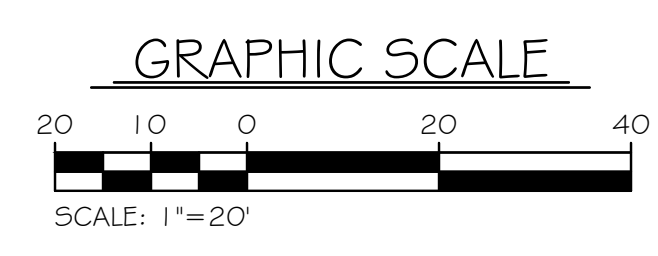
ENGINEER KCI TECHNOLOGIES, INC. 936 RIDGEBROOK ROAD SPARKS, MD 21152 CONTACT: TONY MEYERS EMAIL: TONY.MEYERS@KCI.COM PHONE: (410) 316-7898	OWNER / APPLICANT TOWN OF SYKESVILLE 7547 MAIN STREET SYKESVILLE, MD 21784 ATTN: MR. JOE COSENTINI EMAIL: JOESENTINI@SYKESVILLE.NET PHONE: (410) 795-8959	KCI TECHNOLOGIES ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS 936 RIDGEBROOK ROAD SPARKS, MD 21152 TELEPHONE: (410) 316-7800 FAX: (410) 316-7818	<table><tr><th colspan="4">REVISIONS</th></tr><tr><th>NO.</th><th>DATE</th><th>DESCRIPTION</th><th>BY</th></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>	REVISIONS				NO.	DATE	DESCRIPTION	BY																									DATE 11/13/2024 SCALE 1"=20' DESIGNED BY KCI CHECKED BY KCI	STORM DRAIN PROFILES - GRADING ONLY PLANS MAIN STREET IMPROVEMENTS TOWN OF SYKESVILLE SYKESVILLE, MD 21784 CARROLL COUNTY 13TH ELECTION DISTRICT	DRAWING NO. C-11 SHEET <u>11</u> OF <u>22</u> KCI JOB NUMBER 272206100.03
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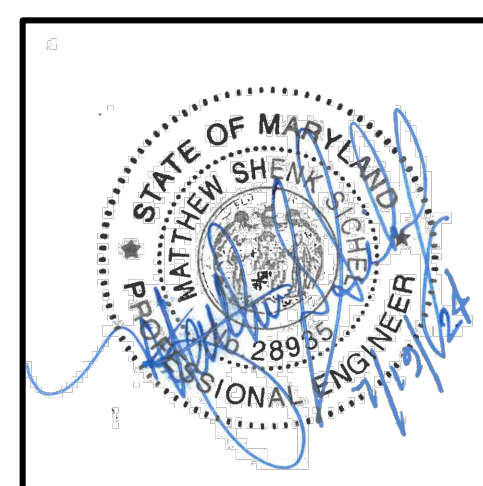
LEGEND

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- — PROP. FULL DEPTH PAVEMENT
- — PROP. STAMPED CONCRETE
- — PROP. CONCRETE CURB / WALK
- — PROP. PAVERS

*SEE SHEETS C-06 - C-08 FOR PAVEMENT DETAILS



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PLANTING NOTES

- ALL BEDS ARE TO BE TOPPED WITH THREE (3) INCHES OF HARDWOOD MULCH. NO MULCH SHALL BE PLACED AGAINST TRUNKS AND/OR STEMS. ALL GROUNDCOVERING AND SEEDLINGS SHOULD BE MULCHED TO A DEPTH OF ONE TO TWO (2) INCHES.
- AT THE TIME OF PLANT INSTALLATION, ALL SHRUBS AND TREES LISTED AND APPROVED ON THE LANDSCAPE PLAN SHALL COMPLY WITH PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE ANNE ARUNDEL COUNTY LANDSCAPE MANUAL. NO SUBSTITUTIONS OR RELOCATIONS OF THE REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THE APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME, AS ALL REQUIRED MATERIAL ARE PLANTED AND/OR REVISIONS ARE MADE TO THE APPLICABLE PLANS.
- NO SUBSTITUTIONS ARE TO BE MADE WITHOUT THE CONSENT OF THE LANDSCAPE ARCHITECT AND/OR THE OWNER.

SEEDING & PLANTING METHODS

SEEDING AND PLANTING SHOULD BEGIN IMMEDIATELY UPON COMPLETION OF THE MICRO-BIORETENTION FACILITY WHILE THE SOIL IS STILL FRIABLE AND BEFORE INVASIVE WEEDS EMERGE. PLAN SEEDING AND PLANTING BEFORE THE BASIN IS FLOODED OR ALLOW THE BASIN TO DRAIN BEFORE SEEDING. BROADCAST SEED EVENLY OVER EACH UNIT BY HAND SEEDING OR HYDRO SEEDING. SEEDING RATE SHOULD BE 1/2 POUND PER 1,000 S.F., WHICH CAN BE BROADCAST OVER THE ENTIRE AREA TO BE PLANTED. REFER TO CONCEPT LANDSCAPE PLAN. MULCHING, IF USED, SHOULD BE SPARSE TO ALLOW SUNLIGHT TO REACH THE GROUND. REGULAR WATERING OF SEEDING AREAS IS VITAL UNTIL SEED BECOMES ESTABLISHED.

LANDSCAPE STANDARDS & SPECIFICATIONS

- ALL PLANT MATERIAL (NURSERY STOCK) TO MEET AMERICAN NURSERY AND LANDSCAPE ASSOCIATION'S (ANLA) LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1), PARTICULARLY WITH REGARD TO SIZE, GROWTH, SIZE OF BALL, AND DENSITY OF BRANCH STRUCTURE.
- CONTRACTOR SHALL FOLLOW SPECIFICATION GUIDELINES FOR BALTIMORE & WASHINGTON METROPOLITAN AREA AS APPROVED BY THE I.C.A. OF MARYLAND, WASHINGTON D.C., & VIRGINIA AND DESCRIBED IN THE LATEST EDITION OF "LANDSCAPE SPECIFICATION GUIDELINES" AS WELL AS ALL GUIDELINES SPECIFIED IN THE LATEST EDITION OF THE ANNE ARUNDEL COUNTY, MARYLAND "LANDSCAPE MANUAL."
- LANDSCAPE ARCHITECT/OWNER SHALL SELECT, VERIFY, AND/OR APPROVE ALL PLANT MATERIAL. AT THE OWNER'S DISCRETION, SPECIMEN AND OTHER PLANT MATERIAL MAY BE SELECTED. NO SUBSTITUTIONS ARE TO BE MADE WITHOUT THE CONSENT OF THE LANDSCAPE ARCHITECT AND/OR OWNER.
- CONTRACTOR TO NOTIFY MISS UTILITY AT, 1 (800) 257-7777, AT LEAST 72 HOURS PRIOR TO CONSTRUCTION TO VERIFY LOCATIONS OF ALL UTILITIES WITH THE OWNER BEFORE PLANTING.
- THE LANDSCAPE CONTRACTOR SHALL COORDINATE WITH THE GENERAL, LIGHTING, AND IRRIGATION CONTRACTORS REGARDING TIMING AND INSTALLATION OF PLANT MATERIAL. AT THE TIME OF FINAL INSPECTION WITH ACCEPTANCE, ALL ELECTRIC, WATER AND DRAINAGE UTILITIES, AS WELL AS PLANT MATERIAL, SHALL REMAIN UNDAMAGED. LIKEWISE, THE LANDSCAPE CONTRACTOR AND UTILITIES CONTRACTOR SHALL COORDINATE EFFORTS TO ENSURE THAT SURFACE UTILITIES ARE AT THE PROPER ELEVATION RELATIVE TO FINAL GRADE.
- THE OWNER, TENANT, AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING, INCLUDING BOTH PLANT MATERIAL AND BERMS, FENCES AND WALLS. ALL PLANT MATERIAL SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIAL TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION V.F. OF THE ANNE ARUNDEL COUNTY CODE. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING IN THE AMOUNT OF \$XXXX.XX MUST BE POSTED AS PART OF THE DEVELOPER'S AGREEMENT (XX SHADE TREES AND XX SHRUBS).
- DEVELOPER/BUILDER'S CERTIFICATE

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION V.F. OF THE ANNE ARUNDEL COUNTY CODE AND THE ANNE ARUNDEL COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE-YEAR GUARANTEE OF THE PLANT MATERIAL, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

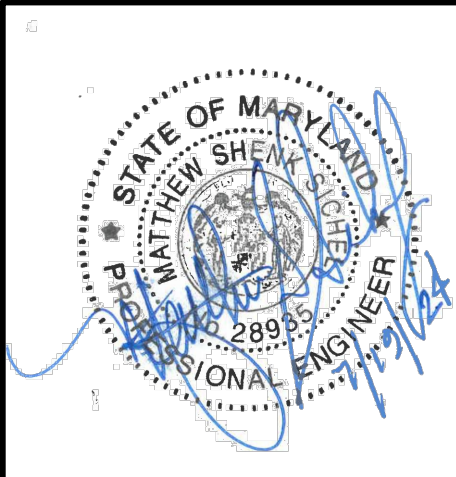
NAME _____ DATE _____

PLANT SCHEDULE*

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	REMARKS
TREES/EVERGREEN TREE						
AR	2	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	2.5" CAL.	B&B	CROWN, ONE LEADER
ARA	4	ACER RUB. 'ARMISTRONG'	FASTIGIATE RED MAPLE	2.5" CAL.	B&B	CROWN, ONE LEADER
QP	4	QUERCUS PHELLOS	WILLOW OAK	2.5" CAL.	B&B	CROWN, ONE LEADER
PSK	6	PRUNUS SERRULATA 'KWANZAN'	KWANZAN CHERRY	1" CAL.	B&B	SPECIMEN
TP	16	THUJA PLICATA X STANDISHII 'GREEN GIANT'	THUJA GREEN GIANT			
SHRUBS						
IG	45	ILEX GLABRA	HOLLY	24" HT	CONT.	5. O.C. FULL, HEAVY
PL	30	PRUNUS LAUROCEARUS 'SCHIPKAENSIS'	SKIP CHERRY LAUREL	24" HT	CONT.	5. O.C. FULL, HEAVY
IV	36	ITEA VIRGINICA	VIRGINIA SWEETSPICE	24" HT	CONT.	3. O.C. FULL, HEAVY
AD	14	AZALEA DELAWARE VALLEY	DELAWARE VALLEY WHITE AZALEA	24" HT	CONT.	3. O.C. FULL, HEAVY
PERENNIALS/ORNAMENTAL GRASSES						
ANA	7	ASTER NOVAE-ANGIAE	NEW ENGLAND ASTER	QUART	CONT.	24" O.C.
CVZ	14	COREOPSIS VERTICILLATA	ZAGREB TICKSEED	QUART	CONT.	18" O.C.
PADL	18	PEROVSKIA ATRIPLEXIFOLIA DENIM 'N LACE'	RUSSIAN SAGE	QUART	CONT.	24" O.C.
PH	45	PENNISETUM HAMMILLI	DWARF MOUNTAIN GRASS	QUART	CONT.	18" O.C.
SS	6	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	QUART	CONT.	18" O.C.
GROUNDCOVER & MISC						
LM	1080	LIRIOPE MUSCARI	LILLYTURF	QUART	CONT.	12" O.C.
SF	TBD	SEASONAL PLANTING				
SOD/TOP SOIL AREA - 2,415 SF (6" MIN. TOPSOIL DEPTH)						

LEGEND

- EXISTING MAJOR CONTOUR ——— 60 ———
- EXISTING MINOR CONTOUR ——— 78 ———
- EXISTING TREE
- PROPOSED MAJOR TREE
- PROPOSED UNDERSTORY TREE
- PROPOSED SHRUB



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GRAPHIC SCALE



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1"=20'

DESIGNED BY

KCI

CHECKED BY

KCI

LANDSCAPE PLAN - GRADING ONLY PLANS
MAIN STREET IMPROVEMENTS
TOWN OF SYKESVILLE
SYKESVILLE, MD 21784

CARROLL COUNTY

13TH ELECTION DISTRICT

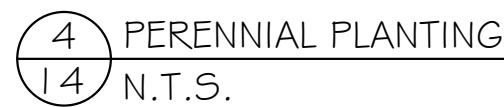
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SHEET 13 OF 22

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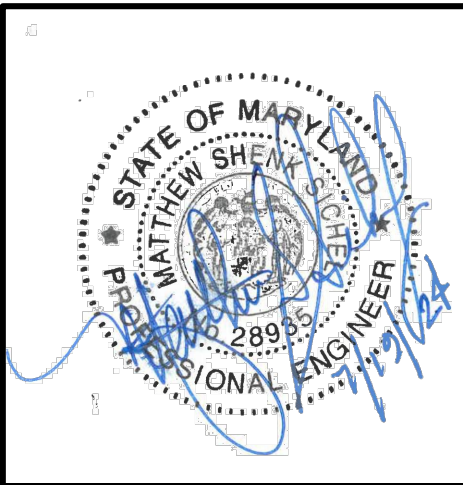


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- — PROP. INLET PROTECTION

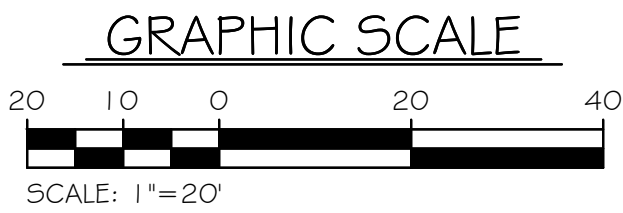
EROSION & SEDIMENT CONTROL NOTES

1. ALL EROSION/SEDIMENT CONTROL MEASURES SHALL COMPLY WITH THE 'MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL' BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION IN ASSOCIATION WITH THE NATURAL RESOURCES CONSERVATION SERVICE AND THE MARYLAND ASSOCIATION WITH THE NATURAL RESOURCES CONSERVATION SERVICE AND THE MARYLAND ASSOCIATION OF SOIL CONSERVATION DISTRICTS (REFERENCED AS THE 2011 STANDARDS AND SPECS).
2. AREAS THAT HAVE BEEN CLEARED AND/OR GRADED, BUT WILL NOT BE CONSTRUCTED ON OR PERMANENTLY VEGETATED FOR MORE THAN 5 DAYS (3 DAYS FOR SEDIMENT CONTROL MEASURES AND FOR STEEP SLOPES) MUST BE STABILIZED WITH MULCH OR TEMPORARY STABILIZATION. ANY AREAS THAT ARE IN TEMPORARY VEGETATION FOR OVER 6 MONTHS WILL NEED TO BE PERMANENTLY VEGETATED.
3. FOR SPECIFICATIONS OF PERMANENT OR TEMPORARY STABILIZATION, SEE B-4-4 AND B-4-5.
4. MULCHING ONLY IS RESTRICTED TO USE ON DISTURBED AREAS AS A TEMPORARY COVER WHERE VEGETATION IS NOT FEASIBLE OR WHERE SEEDING GERMINATION CANNOT BE COMPLETED BECAUSE OF WEATHER CONDITIONS. FOR SPECIFICATIONS SEE B-4-3, A, 1.B.
5. FOR SPECIFICATIONS ON STABILIZATION OF CUT AND FILL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL, SEE INCREMENTAL STABILIZATION B-4-1.
6. THE EXISTING TOPSOIL FROM ON OR OFF SITE THAT IS USED MUST MEET THE MINIMUM SPECIFICATIONS IN B-4-2.
7. THE REQUIRED SEQUENCE OF CONSTRUCTION MUST BE FOLLOWED DURING SITE DEVELOPMENT. ANY CHANGES IN THE SEQUENCE OF CONSTRUCTION MUST BE APPROVED BY THE SOIL CONSERVATION DISTRICT.
8. ANY REVISIONS TO THE SEDIMENT CONTROL PLAN, NOT COVERED UNDER THE LIST OF PLAN MODIFICATIONS THAT CAN BE APPROVED BY THE SEDIMENT CONTROL INSPECTOR, NEED TO BE SUBMITTED TO THE SOIL CONSERVATION DISTRICT FOR APPROVAL.
9. NO PROPOSED SLOPE THAT IS REQUIRED TO BE SEEDED AND/OR MULCHED SHALL BE STEEPER THAN 2:1. SLOPES STEEPER THAN 2:1 SHALL REQUIRE AN ENGINEERED DESIGN FOR STABILIZATION.
10. ALL SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED ONCE A WEEK AND AFTER EACH RAINFALL AND WILL BE REPAIRED, AS NEEDED, SO THAT THE STRUCTURE MEETS THE MINIMUM SPECIFICATIONS AS SHOWN IN THE 2011 STANDARDS AND SPECS.
11. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL SEDIMENT AND EROSION CONTROL MEASURES UNTIL THE DISTURBED AREAS ARE PERMANENTLY STABILIZED.
12. THE DISTRICT APPROVAL FOR THIS SEDIMENT CONTROL PLAN IS GOOD FOR 2 YEARS. AT THE END OF 2 YEARS, IF CONSTRUCTION OF THE PLAN HAS NOT STARTED, THE PLAN WILL NEED TO BE RESUBMITTED TO THE SOIL CONSERVATION DISTRICT FOR REVIEW AND RE-APPROVAL. ANY PLANS THAT ARE CURRENTLY UNDER CONSTRUCTION AFTER 2 YEARS MAY BE REQUIRED TO BE RESUBMITTED TO THE SOIL CONSERVATION DISTRICT BY THE SEDIMENT CONTROL INSPECTOR.



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EROSION & SEDIMENT CONTROL PLAN
- GRADING ONLY PLANS
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SYKESVILLE, MD 21784

CARROLL COUNTY

13TH ELECTION DISTRICT

DRAWING NO.

C-15

SHEET 15 OF 22
KCI JOB NUMBER
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B-4-2 STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

DEFINITION	
THE PROCESS OF PREPARING THE SOILS TO SUSTAIN ADEQUATE VEGETATIVE STABILIZATION.	
PURPOSE	
TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH	
CONDITIONS WHERE PRACTICE APPLIES	
WHERE VEGETATIVE STABILIZATION IS TO BE ESTABLISHED	
CRITERIA	
I. SOIL PREPARATION	
I.A. TEMPORARY STABILIZATION	
I.A.1. SEEDING PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS OR CHISEL FLOWS OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSENED, IT MUST NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION. SLOPES 3:1 OR FLATTER ARE NOT TO BE TRACKED WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE.	
I.A.2. APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS.	
I.A.3. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.	
I.B. PERMANENT STABILIZATION	
I.B.1. A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE. THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE:	
I.A.1.1. SOIL PH BETWEEN 6.0 AND 7.0.	
I.A.1.2. SOLUBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM)	
I.A.1.3. SOIL CONTAINS LESS THAN 40 PERCENT CLAY BUT ENOUGH FINE GRAINED MATERIAL	
I.A.1.4. (GREATER THAN 50 PERCENT SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE, AN EXCEPTION; IF LOVEGRASS WILL BE PLANTED, THEN 5 SANDY SOIL (LESS THAN 30 PERCENT SILT PLUS CLAY) WOULD BE ACCEPTABLE.	
I.A.1.5. SOIL CONTAINS 1.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT.	
I.A.1.6. SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION.	
I.A.2. APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET THE ABOVE CONDITIONS.	
I.A.3. GRADED AREAS MUST BE MAINTAINED IN A TRUE AND EVEN GRADE AS SPECIFIED ON THE APPROVED PLAN, THEN SCARIFIED OR OTHERWISE LOGGED TO A DEPTH OF 3 TO 5 INCHES.	
I.A.4. APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF A SOIL TEST.	
I.A.5. MIX SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS, RAKE LAWNS AREAS TO SMOOTH THE SURFACE, REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR SEED APPLICATION, LOOSENEED SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN THAT SURFACE WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDING PREPARATION, TRACK SLOPES 3:1 OR FLATTER WITH TRACKED EQUIPMENT LEAVING SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. LEAVE THE TOP 1 TO 3 INCHES OF SOIL LOOSE AND FRABLE. SEEDING LOOSENESS MAY BE UNNECESSARY NEWLY DISTURBED AREAS.	
I.B. TOPSOILING	
I.B.1. TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. THE PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.	
I.B.2. TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA - NRES.	
I.B.3. TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:	
I.A.1.1. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.	
I.A.1.2. THE SOIL MATERIAL IS 50 SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.	
I.A.1.3. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.	
I.A.1.4. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.	
I.A.2. AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN.	
I.A.3. TOPSOIL SPECIFICATIONS: TOPSOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA:	
I.A.1.1. TOPSOIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SANDY CLAY LOAM, OR LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRICULTURIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. TOPSOIL MUST NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND MUST CONTAIN LESS THAN 5 PERCENT BY VOLUME OF CINDERS, STONES, SLUG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2 INCHES IN DIAMETER.	
I.A.1.2. TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACK GRASS, JOHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.	
I.A.1.3. TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.	
I.A.2. TOPSOIL APPLICATION	
I.A.1.1. EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL.	
I.A.1.2. UNIFORMLY DISTRIBUTE TOPSOIL IN A 5 TO 8 INCH LAYER AND LIGHTLY COMPOST TO MINIMUM THICKNESS OF 4 INCHES. SPREADING IS TO BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS MUST BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.	
I.A.1.3. TOPSOIL MUST NOT BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WEIRY OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.	
I.B. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)	
I.A.1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE. SOIL ANALYSIS MAY BE PERFORMED BY A RECOGNIZED PRIVATE OR COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSIS.	
I.A.2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS MUST ALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE LAWS AND MUST BEAR THE NAME, TRADE NAME OR TRADEMARK AND WARRANTY OF THE PRODUCER.	
I.A.3. LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED EXCEPT WHEN HYDROSEEDING) WHICH CONTAINS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 50 PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 98 TO 100 PERCENT WILL PASS THROUGH A #20 MESH SIEVE.	
I.A.4. LIME AND FERTILIZER ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.	
I.A.5. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE AT THE RATE OF 4 TO 8 TONS/ACRE (200-400 POUNDS PER 1,00 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL.	

B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND 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 CONTROLS, SLOPES, AND ANY DISTURBED AREA NOT UNDER ACTIVE GRADING.	
CRITERIA	
A. SEEDING	
A.1. SPECIFICATIONS	
A.1.A. ALL SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW. ALL SEED MUST BE SUBJECT TO RE-TESTING BY A RECOGNIZED SEED LABORATORY. ALL SEED USED MUST HAVE BEEN TESTED WITHIN THE 6 MONTHS IMMEDIATELY PRECEDING THE DATE OF SOWING SUCH MATERIAL ON THE PROJECT. REFER TO TABLE B.4.4 REGARDING THE QUALITY OF SEED. SEED TAGS MUST BE AVAILABLE UPON REQUEST TO THE INSPECTOR TO VERIFY TYPE OF SEED AND SEEDING RATE.	
A.1.B. MULCH ALONE MAY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES ONLY IF THE GROUND IS FROZEN. THE APPROPRIATE SEEDING MIXTURE MUST BE APPLIED WHEN THE GROUND THAW.	
A.1.C. INOCULANTS: THE INOCULATE FOR TREATING LEGUME SEED IN THE SEED MIXTURES MUST BE A PURE CULTURE OF NITROGEN FIXING BACTERIA PREPARED SPECIFICALLY FOR THE SPECIES. INOCULANTS MUST NOT BE USED LATER THAN THE DATE INDICATED ON THE CONTAINER. ADD FRESH INOCULANTS AS DIRECTED ON THE PACKAGE. USE FOUR TIMES THE RECOMMENDED RATE WHEN HYDROSEEDING. NOTE: IT IS VERY IMPORTANT TO KEEP INOCULANT AS COOL AS POSSIBLE UNTIL USED, TEMPERATURES ABOVE 75 TO 80 DEGREES FAHRENHEIT CAN WEAKEN BACTERIA AND MAKE THE INOCULANT LESS EFFECTIVE.	
A.1. APPLICATION	
A.1.A. DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OR BROADCAST SPREADERS.	
A.1.A.A. INCORPORATE SEED INTO THE SUBSOIL AT THE RATES PRESCRIBED ON TEMPORARY SEEDING TABLE B.1.	
A.1.A.B. PERMANENT SEEDING TABLE B.3. OR SITE SPECIFIC SEEDING SUMMARIES.	
A.1.A.B. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER, APPLY HALF THE SEEDING RATE IN EACH DIRECTION. ROLL THE SEEDED AREA WITH A WEIGHTED ROLLER TO PROVIDE GOOD SEED TO SOIL CONTACT.	
A.1.B. DRILL OR CULTIPACKER SEEDING: MECHANIZED SEEDERS THAT APPLY AND COVER SEED WITH SOIL.	
A.1.1.A. CULTIPACKING SEEDERS ARE REQUIRED TO BURY THE SEED IN SUCH A FASHION AS TO PROVIDE AT LEAST 1/4 INCH OF SOIL COVERING. SEEDBED MUST BE FIRM AFTER PLANTING.	
A.1.1.B. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION.	
A.1.C. HYDROSEEDING: APPLY SEED UNIFORMLY WITH HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER).	
A.1.1.A. IF FERTILIZER IS BEING APPLIED AT THE TIME OF SEEDING, THE APPLICATION RATES SHOULD NOT EXCEED THE FOLLOWING: NITROGEN, 100 POUNDS PER ACRE TOTAL OF SOLUBLE NITROGEN; P205 (PHOSPHOROUS), 200 POUNDS PER ACRE; K2O (POTASSIUM), 200 POUNDS PER ACRE.	
A.1.1.B. LIME: USE ONLY GROUND AGRICULTURAL LIMESTONE (UP TO 3 TONS PER ACRE MAY BE APPLIED BY HYDROSEEDING), NORMALLY, NOT MORE THAN 2 TONS ARE APPLIED BY HYDROSEEDING AT ANY ONE TIME. DO NOT USE BURNT OR HYDRATED LIME WHEN HYDROSEEDING.	
A.1.1.C. MIX SEED AND FERTILIZER ON SITE AND SEED IMMEDIATELY AND WITHOUT INTERRUPTION. WHEN HYDROSEEDING DO NOT INCORPORATE SEED INTO THE SOIL.	
A.2. MULCHING	
A.2.A. MULCH MATERIALS (IN ORDER OF PREFERENCE)	
A.2.A.1. STRAW CONSISTING OF THOROUGHLY THRESHED WHEAT, RYE, OAT, OR BARLEY AND REASONABLY BRIGHT IN COLOR. STRAW IS TO BE FREE OF NOXIOUS WEED SEEDS AS SPECIFIED IN THE MARYLAND SEED LAW AND NOT MUSTY, MOLDY, CAKED, DECAYED, OR EXCESSIVELY DUSTY. NOTE: USE ONLY STERILE STRAW MULCH IN AREAS WHERE ONE SPECIES OF GRASS IS DESIRED.	
A.2.A.2. WOOD CELLULOSE FIBER MULCH (WCFM) CONSISTING OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE.	
A.2.A.2.A. WCFM IS TO BE DYED GREEN OR CONTAIN A GREEN DYE IN THE PACKAGE THAT WILL PROVIDE AN APPROPRIATE COLOR TO FACILITATE VISUAL INSPECTION OF THE UNIFORMLY SPREAD SLURRY.	
A.2.A.2.B. WCFM, INCLUDING DYE, MUST CONTAIN NO GERMINATION OR GROWTH INHIBITING FACTORS.	

A.2.A.2.C.	WCFM MATERIALS ARE TO BE MANUFACTURED AND PROCESSED IN SUCH A MANNER THAT THE WOOD CELLULOSE FIBER MULCH WILL REMAIN IN UNIFORM SUSPENSION IN WATER UNDER AGITATION AND WILL BLEND WITH SEED, FERTILIZER AND OTHER ADDITIVES TO FROM A HOMOGENEOUS SLURRY. THE MULCH MATERIAL MUST FORM A BOTTLER-LIKE GROUND COVER, ON APPLICATION, HAVING MOISTURE ABSORPTION AND PERCOLATION PROPERTIES AND MUST COVER AND HOLD GRASS SEED IN CONTACT WITH THE SOIL WITHOUT INHIBITING THE GROWTH OF THE GRASS SEEDLINGS.
A.2.A.2.D.	WCFM MATERIAL MUST NOT CONTAIN ELEMENTS OR COMPOUNDS AT CONCENTRATION LEVELS THAT WILL BE PHYTO-TOXIC.
A.2.A.2.E.	WCFM MUST CONFORM TO THE FOLLOWING PHYSICAL REQUIREMENTS: FIBER LENGTH OF APPROXIMATELY 10 MILLIMETERS, DIAMETER APPROXIMATELY 1 MILLIMETER, PH RANGE OF 4.0 TO 8.5, ASH CONTENT OF 1.6 PERCENT MAXIMUM AND WATER HOLDING CAPACITY OF 90 PERCENT MINIMUM.
A.2.B. APPLICATION	
A.2.B.1. APPLY MULCH TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING.	
A.2.B.2. WHEN STRAW MULCH IS USED, SPREAD IT OVER ALL SEEDED AREAS AT THE RATE OF 2 TONS PER ACRE TO A UNIFORM LOOSE DEPTH OF 1 TO 2 INCHES. APPLY MULCH TO ACHIEVE A UNIFORM DISTRIBUTION AND DEPTH SO THAT THE SOIL SURFACE IS NOT EXPOSED. WHEN USING A MULCHING ANCHORING TOOL, INCREASE THE APPLICATION RATE TO 2.5 TONS PER ACRE.	
A.2.B.3. WOOD CELLULOSE FIBER USED AS MULCH MUST BE APPLIED AT A NET DRY WEIGHT OF 1500 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER TO ATTAIN A MIXTURE WITH A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.	
A.2.C. ANCHORING	
A.2.C.1. PERFORM MULCH ANCHORING IMMEDIATELY FOLLOWING APPLICATION OF MULCH TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS (LISTED BY PREFERENCE), DEPENDING UPON THE SIZE OF THE AREA AND EROSION HAZARD.	
A.2.C.1.A. A MULCH ANCHORING TOOL IS A TRACTOR DRAWN IMPLEMENT DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL SURFACE A MINIMUM OF 2 INCHES. THIS PRACTICE IS THE MOST EFFECTIVE ON LARGE AREAS, BUT IS LIMITED TO FLATTER SLOPES WHERE EQUIPMENT CAN OPERATE SAFELY. IF USED ON SLOPING LAND, THIS PRACTICE SHOULD FOLLOW THE CONTOUR.	
A.2.C.1.B. WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. APPLY THE FIBER BINDER AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER AT A MAXIMUM OF 50 POUNDS IF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.	
A.2.C.1.C. SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AKRO-TACK), DCA-70, PETERSET, TERRA TAC II, TERRA TACK AR OR OTHER APPROVED EQUAL MAYBE USED. FOLLOW APPLICATION RATES AS SPECIFIED BY THE MANUFACTURER. APPLICATION OF LIQUID BINDERS NEEDS TO BE HEAVIER AT THE EDGES WHERE WIND CATCHES MULCH, SUCH AS IN VALLEYS AND ON CRESTS OF BANKS. USE OF ASPHALT BINDERS IS STRICTLY PROHIBITED.	
A.2.C.1.D. LIGHTWEIGHT PLASTIC NETTING MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER RECOMMENDATIONS. NETTING IS USUALLY AVAILABLE IN ROLLS 4 TO 15 FEET WIDE AND 300 TO 3,000 FEET LONG.	

B-4-4 STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION

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 WHERE GROUND COVER IS NEEDED FOR A PERIOD OF 6 MONTHS OR LESS. FOR LONGER DURATION OF TIME, PERMANENT STABILIZATION PRACTICES ARE REQUIRED.						
CRITERIA						
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 DATES AND SEEDING DEPTHS. IF THIS SUMMARY IS NOT PUT ON THE PLAN AND COMPLETED, THEN TABLE B.1 PLUS FERTILIZER AND LIME RATES MUST BE PUT ON THE PLAN.						
2. FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES BY THE TESTING AGENCY. SOIL TESTS ARE NOT REQUIRED FOR TEMPORARY SEEDING.						
3. WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON, APPLY SEED AND MULCH OR STRAW MULCH ALONE AS PRESCRIBED IN SECTION B-4-3.A.1.B AND MAINTAIN UNTIL THE NEXT SEEDING SEASON.						
HARDNESS ZONE (FROM FIGURE B.3)					FERTILIZER RATE (10-20-20)	LIME RATE
SEED MIXTURE (FROM TABLE B.1)						
NO.	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS		
	FORTAL MILLET (SETARIA ITALICA)	30 LBS.	5/1 - 8/14	1/2"		
	ANNUAL KYRGASS (SOLUUM PERENN SSP. MULTIFLORUM)	40 LBS.	5/15 - 8/30 9/15 - 10/31	1/2"	436 LB/AC (110 LB / 1000 SF)	2 TONS/AC (90 LB / 1000 SF)

- NOTE:
- SEEDING RATES FOR THE WARM-SEASON GRASSES ARE IN POUNDS OF PURE LIVE SEED (PLS). ACTUAL PLANTING RATES SHALL BE ADJUSTED TO REFLECT PERCENT SEED GERMINATION AND PURITY, AS TESTED. ADJUSTMENTS ARE USUALLY NOT NEEDED FOR THE COOL-SEASON GRASSES.
 - SEEDING RATES LISTED ABOVE ARE FOR TEMPORARY SEEDINGS, WHEN PLANTED ALONE, WHEN PLANTED AS A NURSE CROPP WITH PERMANENT SEED MIXES DO NOT EXCEED MORE THAN 5% (BY WEIGHT) OF THE OVERALL PERMANENT SEEDING MIX.

B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

DEFINITION	
TO STABILIZE DISTURBED SOILS WITH PERMANENT VEGETATION.	
PURPOSE	
TO USE LONG-LIVED PERENNIAL GRASSES AND LEGUMES TO ESTABLISH PERMANENT GROUND COVER ON DISTURBED SOILS	
CONDITIONS WHERE PRACTICE APPLIES	
EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR 6 MONTHS OR MORE.	
CRITERIA	
A.1.A. SEED MIXTURES	
A.1.A.1. GENERAL USE	
A.1.A.1.A. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.3 FOR THE APPROPRIATE PLANT HARDNESS ZONE (FROM FIGURE B.3) AND BASED ON THE SITE CONDITION OR PURPOSE FOUND ON TABLE B.2 ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.	
A.1.A.1.B. ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES, STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT MAY BE FOUND IN USDA - NRCS TECHNICAL FIELD OFFICE GUIDE, SECTION 342 - CRITICAL AREA PLANTING.	
A.1.A.1.C. FOR SITES HAVING DISTURBED AREA OVER 5 ACRES, USE AND SHOW THE RATES RECOMMENDED BY THE SOIL TESTING AGENCY.	
A.1.A.1.D. FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER (46-0-0) AT 3 1/2 POUNDS PER 100 SQUARE FEET (150 POUNDS PER ACRE) AT THE TIME OF SEEDING IN ADDITION TO THE SOIL AMENDMENTS SHOWN IN THE PERMANENT SEEDING SUMMARY.	
A.1.A.2. TURFGRASS MIXTURES	
A.1.A.2.A. AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE.	
A.1.A.2.B. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE CONDITIONS OR PURPOSE. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.	
A.1.A.2.B.1. KENTUCKY BLUEGRASS- FULL SUN MIXTURE: FOR USE IN AREAS THAT RECEIVE INTENSIVE MANAGEMENT. IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND AND EASTERN SHORE. RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS CULTIVARS SEEDING RATES: 1.5 TO 2.0 POUNDS PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.	
A.1.A.2.B.2. KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE: FOR USE IN FULL SUN AREAS WHERE B.22 RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE MEDIUM TO INTENSIVE MANAGEMENT. CERTIFIED PERENNIAL RYEGRASS CULTIVARS/CERTIFIED KENTUCKY BLUEGRASS SEEDING RATE: 2 POUNDS MIXTURE PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.	
A.1.A.2.B.3. TALL FESCUE/ KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN DROUGHT PRONE AREAS AND/OR FOR AREAS RECEIVING LOW TO MEDIUM MANAGEMENT IN FULL SUN TO MEDIUM SHADE. RECOMMENDED MIXTURE INCLUDES: CERTIFIED TALL FESCUE CULTIVARS 95 TO 100 PERCENT, CERTIFIED KENTUCKY BLUEGRASS CULTIVARS TO 5 PERCENT. SEEDING RATE: 5 TO 8 POUNDS PER 1000 SQUARE FEET.	
NOTES:	
SELECT TURFGRASS VARIETIES FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY OF MARYLAND PUBLICATION, AGRONOMY MEMO #77, "TURFGRASS CULTIVAR RECOMMENDATIONS FOR MARYLAND" CHOOSE CERTIFIED MATERIAL. CERTIFIED MATERIAL IS THE BEST GUARANTEE OF CULTIVAR PURITY. THE CERTIFICATION PROGRAM OF THE MARYLAND DEPARTMENT OF AGRICULTURE, TURF AND SEED SECTION, PROVIDES A RELIABLE MEANS IF CONSUMER PROTECTION AND ASSURES A PURE GENETIC LINE.	

A.1.A.2.C.

IDEAL TIMES OF SEEDING FOR TURF GRASS MIXTURES
WESTERN MD- MARCH 15 TO JUNE 1, AUGUST 1 TO OCTOBER 1
(HARDNESS ZONES: 5B, 6A)
CENTRAL MD - MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15
(HARDNESS ZONES: 6B)

A.1.A.2.D.

TILL AREAS TO RECEIVE SEED BY DISKING OR OTHER APPROVED METHOD TO A DEPTH OF 2 TO 4 INCHES. LEVEL AND RAKE THE AREAS TO PREPARE A PROPER SEEDBED. REMOVE STONES AND DEBRIS OVER 1/2 INCHES IN DIAMETER. THE RESULTING SEEDBED MUST BE IN SUCH CONDITION THAT SOIL MOVING OF GRASSES WILL POSE NO DIFFICULTY.

A.1.A.2.E.

IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH (1/2 TO 1 INCH EVERY 3 TO 4 DAYS DEPENDING ON SOIL TEXTURE) UNTIL THEY ARE FIRMLY ESTABLISHED. THIS IS ESPECIALLY TRUE FOR SEEDINGS ARE SOWN IN THE PLANTING SEASON, IN ABNORMALLY DRY OR HOT SEASONS, OR ON ADVERSE SITES.

PERMANENT SEEDING SUMMARY

HARDNESS ZONE (FROM FIGURE B.3)		7a		FERTILIZER RATE (10-20-20)			
SEED MIXTURE (FROM TABLE B.1)							
NO.	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS	N	P ₂ O ₅	K ₂ O
	KENTUCKY BLUEGRASS 10% TURF TYPE TALL FESCUE 40% GRADE TALL FESCUE 30% PERENNIAL RYEGRASS 20%	350	2/15 - 4/30 AND 8/15 - 10/31	1/4 - 1/2 IN.	45 POUNDS PER ACRE (1.0 LB / 1000 SF)	90 LB/AC (2 LB / 1000 SF)	90 LB/AC (2 LB / 1000 SF)
							2 (90)

NOTE: FOR THE PERIOD 5/1 - 8/14 ADD 17.5 LBS. FOYALITE MIXTURE TO THE RESULTING SEED MIX FOR THE PERMANENT SEEDING SUMMARY TABLE NOTE #1.

NOTE: FOR THE PERIOD 5/1 - 8/14 ADD 17.5 LBS. FORTAL MILLET TO THE PERMANENT SEED MIX PER THE TEMPORARY SEED SUMMARY TABLE NOTE #1.

- A.1. SOD: TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER)
- A.1.1. GENERAL SPECIFICATIONS
- A.1.A. CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED. SOD LABELS MUST BE MADE, AVAILABLE TO THE JOB FOREMAN AND INSPECTOR.
- A.1.B. SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4 INCH PLUS OR MINUS 1/4 INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS MUST EXCLUDE TOP GROWTH AND THATCH. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.
- A.1.C. STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION.
- A.1.D. SOD MUST NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.
- A.1.E. SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPORTED WITHIN THIS PERIOD MUST BE APPROVED BY AN AGRONOMIST OR SOIL SCIENTIST PRIOR TO ITS INSTALLATION.
- A.2. SOD INSTALLATION
- A.2.A. DURING PERIODS OR EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL, LIGHTLY IRRIGATE THE SUBSOIL IMMEDIATELY PRIOR TO LAYING THE SOD.
- A.2.B. LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO IT AND TIGHTLY WEDGED AGAINST EACH OTHER. STAGGER LATERAL JOINTS TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE AIR DRYING OF THE ROOTS.
- A.2.C. WHEREVER POSSIBLE, LAY SOD WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERING JOINTS. ROLL AND TAMP. PEG OR OTHERWISE SECURE THE SOD TO PREVENT SURPGE ON SLOPES. ENSURE SOLID CONTACT EXISTS BETWEEN SOD ROOTS AND THE UNDERLYING SOIL SURFACE.
- A.2.D. WATER THE SOD IMMEDIATELY FOLLOWING ROLLING AND TAMPING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. COMPLETE THE OPERATIONS OF LAYING, TAMPING AND IRRIGATING FOR ANY PIECE OF SOD WITHIN EIGHT HOURS.
- A.3. SOD MAINTENANCE
- A.3.A. IN THE ABSENCE OF ADEQUATE RAINFALL, WATER DAILY DURING THE FIRST WEEK OR AS OFTEN AND SUFFICIENTLY AS NECESSARY TO MAINTAIN MOIST SOIL IN A DEPTH OF 4 INCHES. WATER SOD DURING THE HEAT OF THE DAY TO PREVENT WILTING.
- A.3.B. AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE CONTENT.
- A.3.C. DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED. NO MORE THAN 1/3 OF THE GRASS LEAF MUST BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. MAINTAIN A GRASS HEIGHT OF AT LEAST 3 INCHES UNLESS OTHERWISE SPECIFIED.

MAINTENANCE NOTE

SILT FENCE, SUPER SILT FENCE, SUPER FENCE DIVERSION AND INLET PROTECTION SHALL BE INSPECTED AND MAINTAINED EACH DAY AND AFTER EACH RAINFALL. MAINTENANCE TO INCLUDE BUT NOT LIMITED TO REMOVAL OF ALL ACCUMULATED SEDIMENT. GEOTEXTILE SHALL BE REPLACED AS NEEDED TO ENSURE PROPER FUNCTION.

UTILITY NOTE

- CONTRACTOR SHOULD OPEN ONLY THAT SECTION OF TRENCH THAT CAN BE BACKFILLED AND STABILIZED EACH DAY. IF TRENCH MUST REMAIN OPEN LONGER THAN ONE DAY, SILT FENCE SHALL BE PLACED BELOW (DOWNSLOPE OF) THE TRENCH.
- PLACE ALL EXCAVATED MATERIAL ON UPHILL SIDE OF TRENCH
- ANY SEDIMENT CONTROLS DISTURBED BY UTILITY CONSTRUCTION ARE TO BE REPAIRED IMMEDIATELY.

DAILY STABILIZATION NOTE

THIS NOTE SHOULD BE USED FOR MINIMAL AREAS WITHIN THE LIMITS OR DISTURBANCE THAT DO NOT DRAIN TO A SEDIMENT CONTROL OR WHERE THE INSTALLATION OF SEDIMENT CONTROLS IS NOT FEASIBLE. (ROAD WIDENING, SIDEWALK INSTALLATION, ETC.) CONTRACTOR SHALL ONLY DISTURB THAT AREA WHICH CAN BE STABILIZED BY THE END OF EACH WORK DAY.

- STABILIZATION SHALL BE AS FOLLOWS:
- FOR AREAS TO BE PAVED, THE APPLICATION OF STONE.
 - FOR AREAS TO BE VEGETATIVELY STABILIZED:
 - PERMANENT SEED, AND SOIL STABILIZATION MATTING OR SOD FOR ALL STEEP SLOPES, CHANNELS OR SWALES.
 - PERMANENT SEED AND MULCH FOR ALL OTHER AREAS. ANY AREAS WHICH CAN NOT BE STABILIZED BY THE END OF EACH WORKING DAY MUST HAVE SILT FENCE INSTALLED ON THE DOWNSLOPE SIDE.

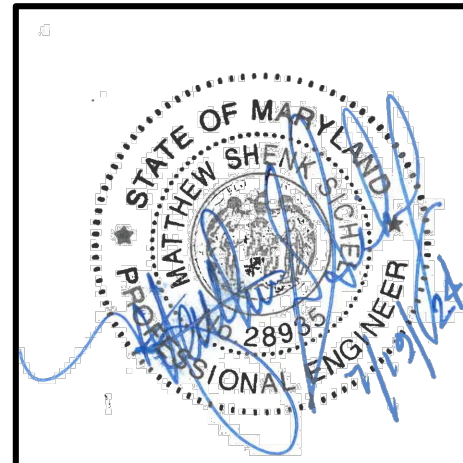
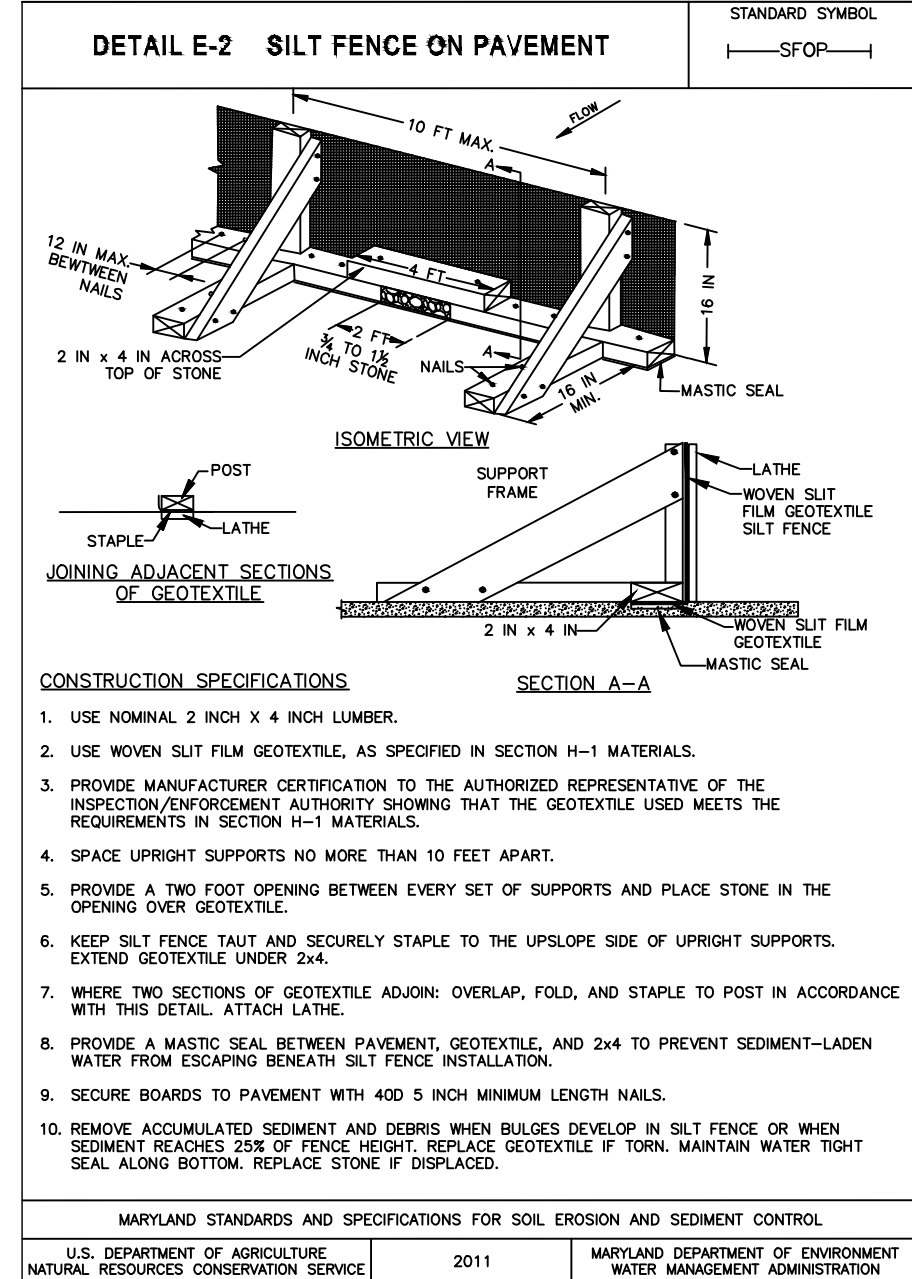
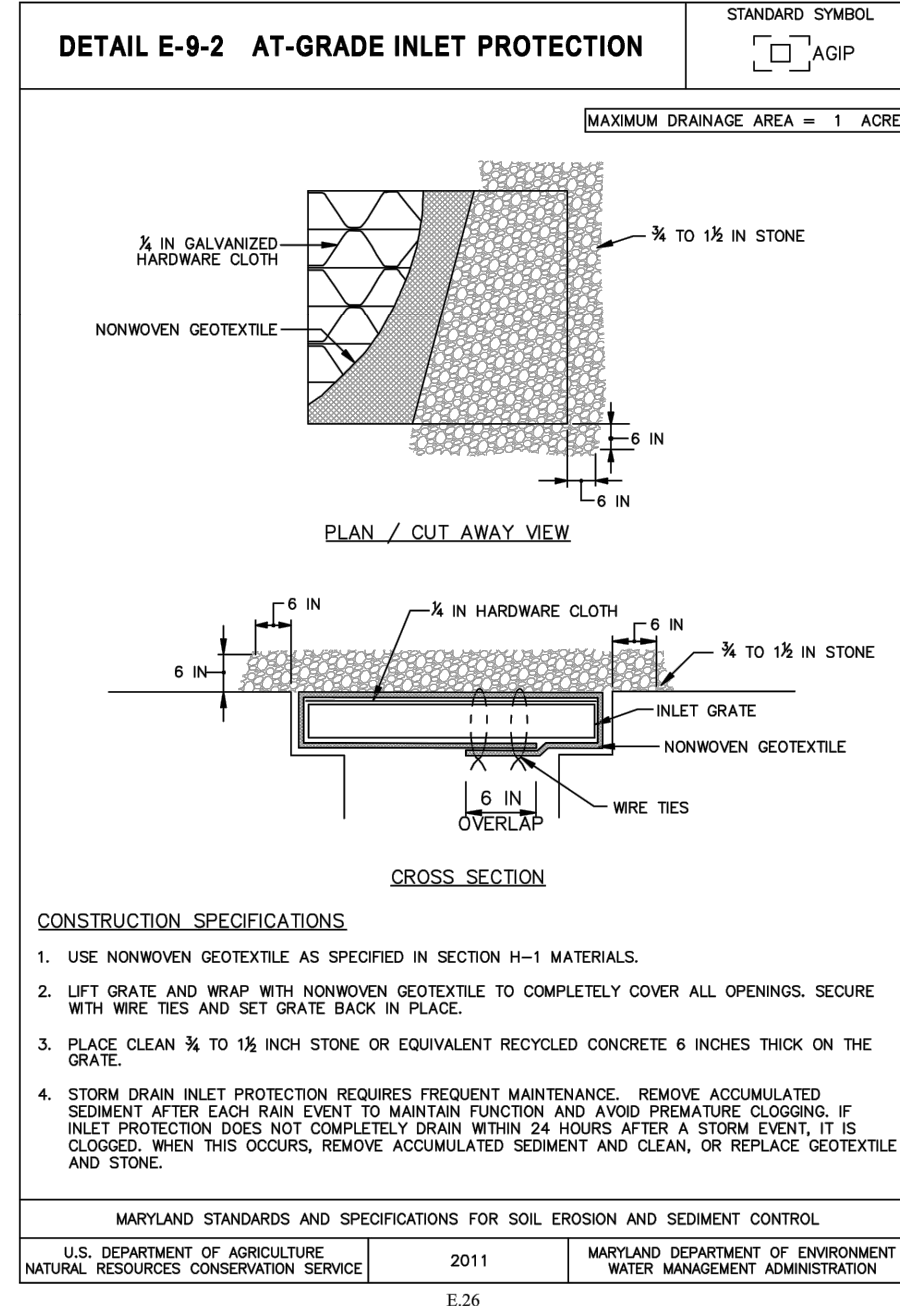
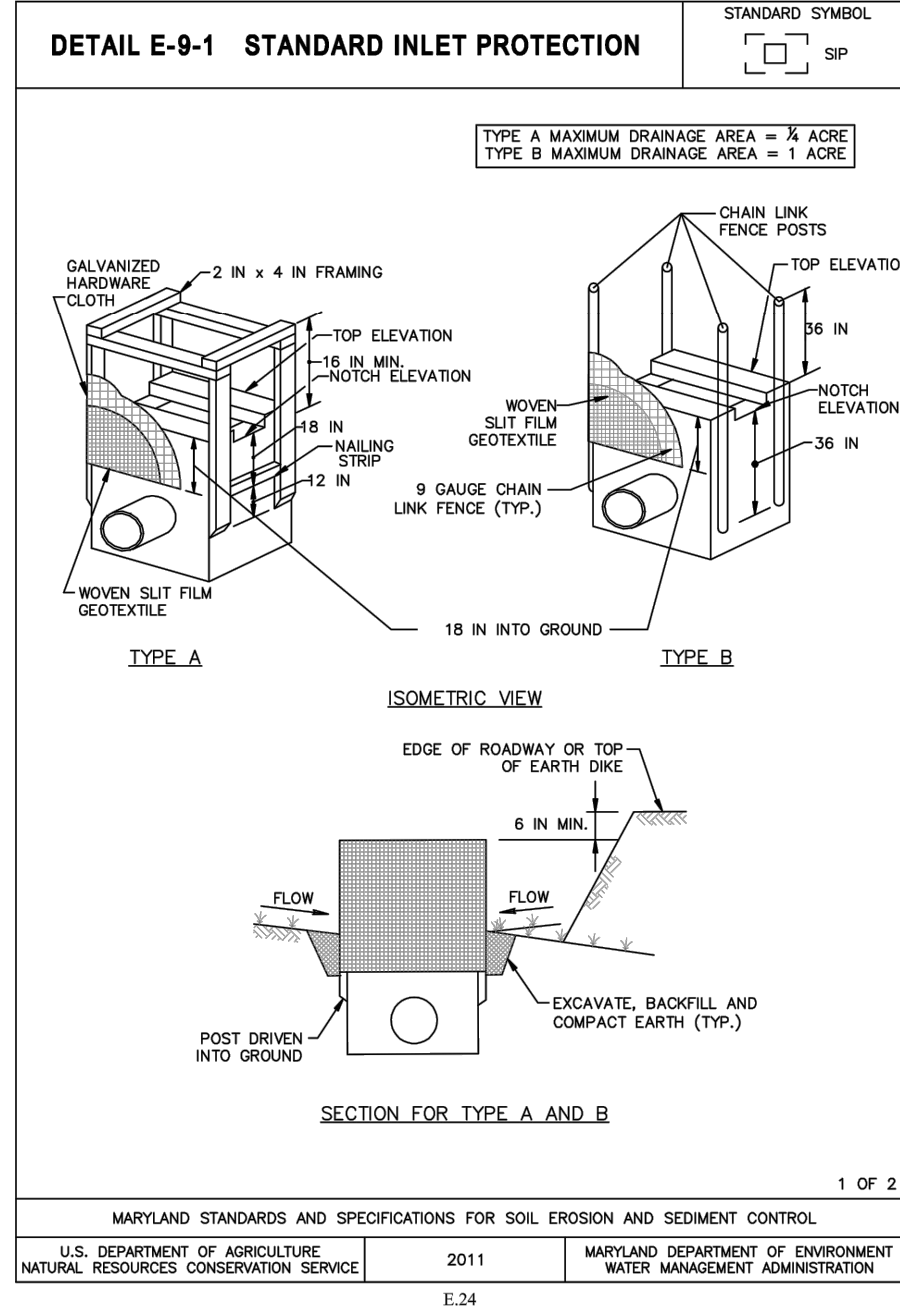
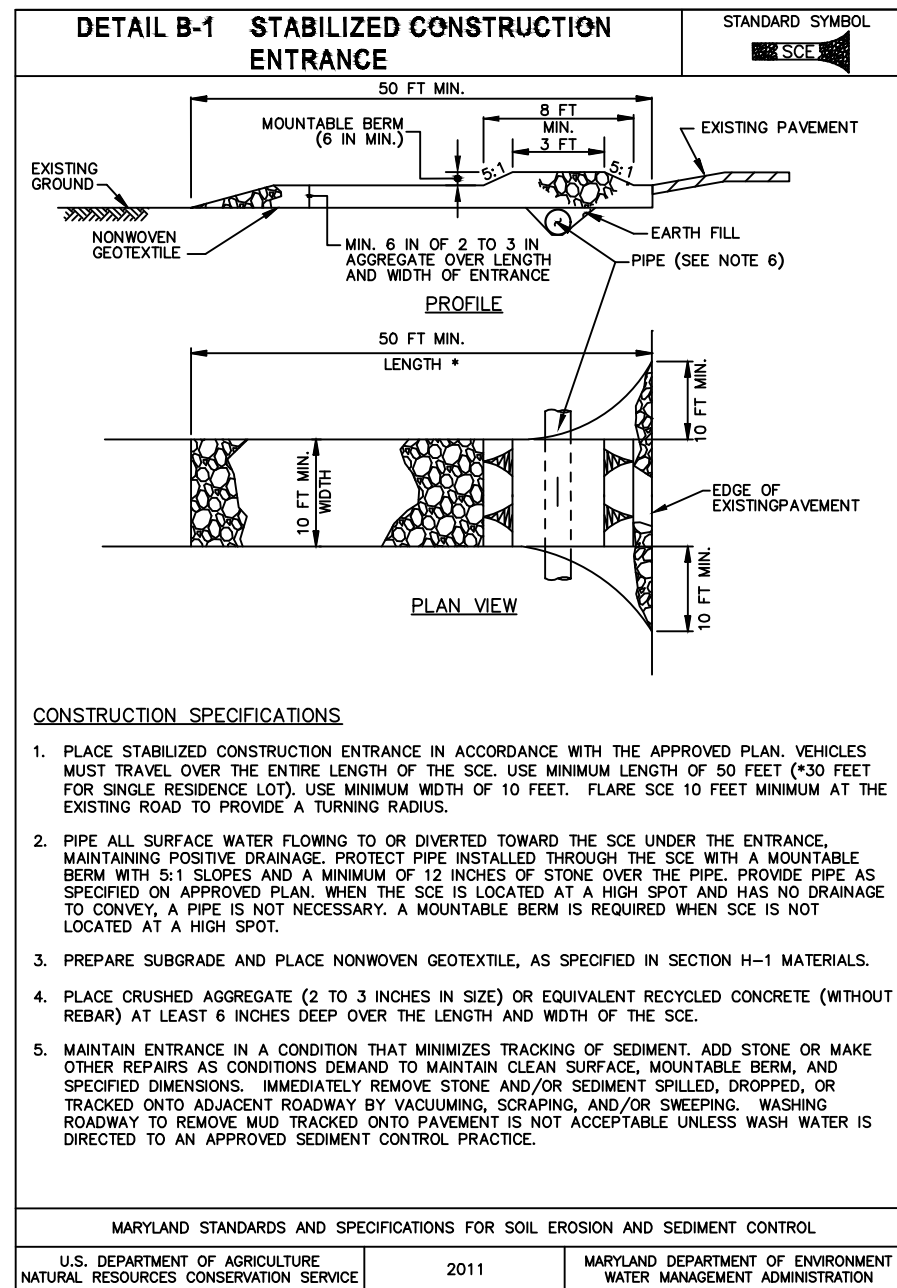
SEQUENCE OF CONSTRUCTION

- CONTRACTOR MUST CONTACT THE CARROLL COUNTY SEDIMENT CONTROL INSPECTOR AT LEAST 24 HOURS PRIOR TO ANY WORK BEING DONE. ALL PROTECTION FENCING AND SIGNAGE REQUIRED UNDER THE CODE OF PUBLIC LAWS AND ORDINANCES CHAPTER 1115 OF FOREST CONSERVATION AND CHAPTER 1154 OF WATER RESOURCES MUST BE INSTALLED PRIOR TO THE PRE-CONSTRUCTION MEETING WITH THE SEDIMENT CONTROL INSPECTOR.
- START WITH BALDWIN DRIVE WORK. CONTRACTOR TO CONTACT FIREHOUSE CREAMERY, SYKESVILLE STATION 4 THE TOWN OF SYKESVILLE TO COORDINATE CONSTRUCTION PRIOR TO PROCEEDING. CONTRACTOR TO MAINTAIN ACCESS TO LOCAL BUSINESSES AS WORK PROGRESSES.
- CONTRACTOR TO INSTALL ALL PERIMETER SEDIMENT CONTROLS AND INLET PROTECTION, ALONG BALDWIN DRIVE.
- WITH PERMISSION OF THE TOWN OF SYKESVILLE, TEMPORARILY CLOSE BALDWIN DRIVE. CONTRACTOR TO FOLLOW MARYLAND MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES - 2011 EDITION.
- CONTRACTOR TO REMOVE EXISTING CURB, SAW CUT LINES AND REMOVE EXISTING PAVEMENT ALONG NEW CURB LINES, MILL EXISTING PAVEMENT AND INSTALL NEW CURB. INSTALL SAFETY FENCE AS NECESSARY.
- CONTRACTOR TO BEGIN SIDEWALK IMPROVEMENTS. NOTE THAT ACCESS TO ALL BUSINESSES IS TO BE MAINTAINED DURING CONSTRUCTION.
- OVERLAY PAVEMENT AND STRIPE PARKING WHERE APPLICABLE.
- CONTRACTOR TO REOPEN BALDWIN DRIVE AND WITH PERMISSION OF THE TOWN OF SYKESVILLE TEMPORARILY CLOSE PORTION OF OKLAHOMA AVENUE. CONTRACTOR TO FOLLOW MARYLAND MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES - 2011 EDITION.
- PRIOR TO STARTING WORK ON OKLAHOMA AVENUE CONTRACTOR TO MEET WITH THE TOWN OF SYKESVILLE, THE OWNER OF THE FRENCH TWIST CAFE AND OWNER OF TRI SPORT JUNCTION TO COORDINATE CONSTRUCTION PRIOR TO PROCEEDING. ACCESS TO LOCAL HOUSING AND BUSINESSES IS TO BE MAINTAINED DURING CONSTRUCTION.
- CONTRACTOR TO INSTALL PERIMETER SEDIMENT CONTROLS AND INLET PROTECTION ALONG OKLAHOMA AVENUE.
- INSTALL INLET 1-30 AND STORM DRAIN FROM 1-30 TO M-31, M-31 TO M-32, AND M-32 TO M-33. PLEASE NOTE THAT THE WATER HOUSE AND SEWER HOUSE CONNECTION TO THE FRENCH TWIST CAFE MAY NEED TO BE RELOCATED. CONTRACTOR TO COORDINATE WITH THE FRENCH TWIST CAFE. BUSINESSES TO REMAIN OPEN DURING CONSTRUCTION. NOTE THAT CONTRACTOR THE INSTALL SAFETY FENCING AS NECESSARY.
- CONTRACTOR TO INSTALL INLETS 1-36 AND 1-37. REMOVE EXISTING INLETS EX. 1-11 AND EX. 1-10, AND INSTALL PROPOSED STORM DRAIN FROM 1-37 TO M-33 AND M-33 TO M-34. CONTRACTOR TO REFER TO STORM WATER MANAGEMENT SEQUENCE OF CONSTRUCTION FOR INSTALLATION OF ROTONDO STORM GARDEN.
- INSTALL INLET 1-38 AND 1-39. NOTE AS A NEW INLET IS INSTALLED INLET PROTECTION IS TO BE ADDED TO INLET.
- CONTRACTOR TO REMOVE EXISTING CURB, SAW CUT LINES AND REMOVE EXISTING PAVEMENTS WITHIN LIMITS OF PAVERS. MILL EXISTING PAVEMENT ALONG PERIMETER OF PAVERS TO ALLOW FOR SMOOTH TRANSITIONS BETWEEN PAVERS AND EXISTING PAVEMENT AND INSTALL NEW CURB AS THIS WORK PROGRESSES.
- CONTRACTOR TO BEGIN SIDEWALK IMPROVEMENTS ALONG OKLAHOMA AVENUE. NOTE ACCESS TO ALL BUSINESSES AND PRIVATE RESIDENCES IS TO BE MAINTAINED DURING CONSTRUCTION. PAVERS AND RETRACTABLE DOLLARDS ARE TO BE INSTALLED IN OKLAHOMA AVENUE AT THIS TIME.
- OVERLAY PAVEMENT WHERE NECESSARY TO ENSURE SMOOTH TRANSITIONS BETWEEN PROPOSED PAVERS AND EXISTING PAVEMENT.
- PRIOR TO STARTING WORK ON MAIN STREET, CONTRACTOR TO MEET WITH BUSINESS OWNERS AND THE TOWN OF SYKESVILLE TO COORDINATE CONSTRUCTION PRIOR TO PROCEEDING. ACCESS TO LOCAL HOUSING AND BUSINESS IS TO BE MAINTAINED.
- CONTRACTOR TO INSTALL PERIMETER SEDIMENT CONTROLS AND INLET PROTECTION AND M.O.T. SIGNAGE PER PLAN.

ENGINEER	OWNER / APPLICANT
KCI TECHNOLOGIES, INC. 936 RIDGEBROOK ROAD SPARKS, MD 21152 CONTACT: TONY MEYERS EMAIL: TONY.MEYERS@KCI.COM PHONE: (410) 316-7898	TOWN OF SYKESVILLE 7547 MAIN STREET SYKESVILLE, MD 21784 ATTN: MR. JOE COSENTINI EMAIL: JCOSENTINI@SYKESVILLE.NET PHONE: (410) 795-8959

Engineers Planners Scientists Construction Managers

936 RIDGEBROOK ROAD



PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY
THAT THESE DOCUMENTS WERE PREPARED OR
APPROVED BY ME AND THAT I AM DULY LICENSED
PROFESSIONAL ENGINEER UNDER THE LAWS OF THE
STATE OF MARYLAND.
LICENSE NO. 28935 EXP. DATE: 1/15/2025

BID SET

LICENSE NO. 28935 EXP. DATE: 1/15/2025

ENGINEER
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PHONE: (410) 795-8959



**ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGER**

936 RIDGEBROOK ROAD
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FAX: (410) 316-7818

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SEDIMENT & EROSION CONTROL DETAILS
- GRADING ONLY PLANS
MAIN STREET IMPROVEMENTS
TOWN OF SYKESVILLE
SYKESVILLE, MD 21784

CARROLL COUNTY

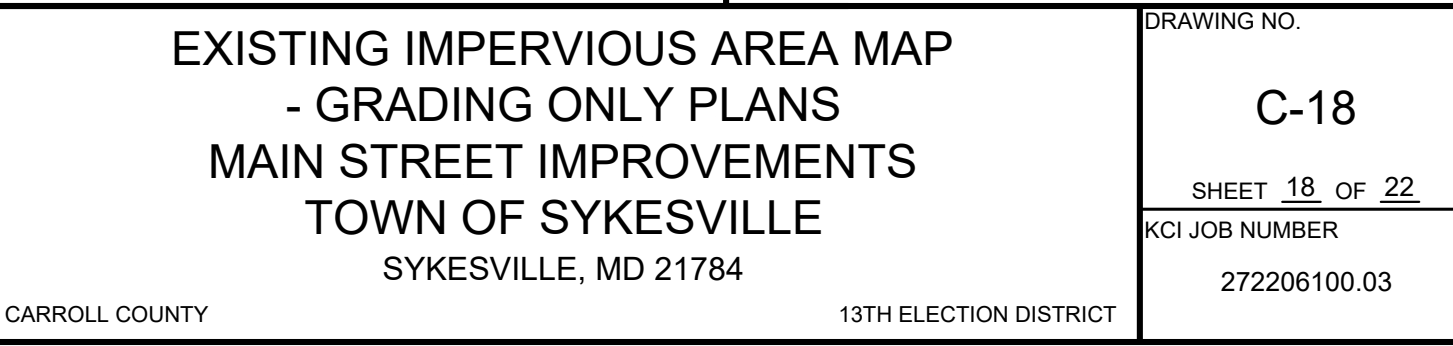
13TH ELECTION DISTRICT

DRAWING NO.

C-17

SHEET 17 OF 22

KCI JOB NUMBER
272206100.03





Project Name: Main St Improvements Sykesville By: SC Date: 10/27/23
Project Number: 272206100 Chk: TM Date: 10/27/23

Stormwater Management Using Environmental Site Design (ESD)

Site Data: L.O.D. / Site Area = 19788 sf = 0.45 Ac.
Existing Impervious = 18429 sf = 0.42 Ac.
Proposed Impervious = 16265 sf = 0.37 Ac.

Step 1: Determine ESD Implementation Goals (WQv, Rev & Cpv Total)

A. Determine Pre-Developed Conditions:

Total Area within Limits of Disturbance: 0.454 Ac.
Existing Impervious within LOD: 0.423 Ac.
Proposed Impervious within LOD: 0.373 Ac.

%I = Existing Impervious Area / Limit of Disturbance = 0.42 Ac. / 0.454 Ac. = 93%

Because existing site impervious is greater than 40%, the project is subject to redevelopment requirements. There is a net decrease in impervious area in proposed conditions, so water quality treatment for only 50% of the existing impervious within the LOD is required.

0.423 x 50% = 0.21 Ac.

Net increase in impervious by development -0.05 Ac., therefore, water quality treatment is required for 0.16 Ac. (0.21 Ac. + -0.05 Ac.)

Redevelopment Area Calculations:

I = 100%
PE = 1.0 inch
Rv = 0.05 + (0.009) x (I)
Rv = 0.05 + (0.009) x 100
Rv = 0.95

ESDv = $\frac{P \times Rv \times A}{12}$
ESDv = $\frac{1.00 \times 0.95 \times 0.16}{12}$

ESDv = 0.013 Acre Feet or 558 Cubic Feet for Redevelopment Area

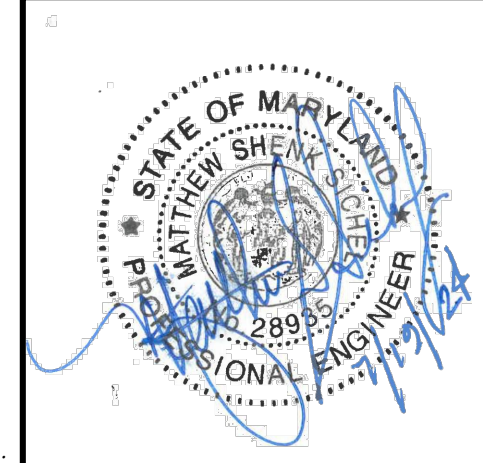
LEGEND

- LOD LIMIT OF DISTURBANCE
- EX. MAJOR CONTOUR
- EX. MINOR CONTOUR
- GgA SOIL DIVIDE
- GgC
- PROPERTY LINE
- EX. CURB & GUTTER
- EX. EDGE OF PAVEMENT
- EX. WATER
- EX. SEWER
- EX. STORM DRAIN
- EX. GAS
- EX. FORCE MAIN
- EX. ELECTRIC
- EX. OVERHEAD ELECTRIC
- EX. FENCE
- EX. BUILDING FOOTPRINT
- EX. CONCRETE WALK
- EX. SPECIMEN TREE AND ROOT ZONE
- EX. LIGHTPOLE
- EX. FIRE HYDRANT
- EX. SIGN
- EX. DOOR
- PROP. MAJOR CONTOUR
- PROP. MINOR CONTOUR
- PROP. CURB & GUTTER
- PROP. EDGE OF PAVEMENT
- PROP. STORM DRAIN
- PROP. SIGN
- PROP. IMPERVIOUS AREA
- PROP. GRASS AREA

SWM SUMMARY TABLE		
STRUCTURE NO.	IMPERVIOUS AREA (S.F.)	GRASS AREA (S.F.)
1	140	273
2	2005	227
3	1356	0
4	306	0
5	382	0
6	153	0
7	2320	229
8	952	0
9	187	0
10	502	0
11	1610	746
12	1239	662
13	287	681
14	3453	459
15	283	84
16	1060	152

NOTE: SITE AREA IS ANY AREA WHERE THE ELEVATION CHANGE IS GREATER THAN 3".

*NOTE: UTILITY ELEVATIONS AND INVERTS ARE APPROXIMATE. CONTRACTOR TO TEST PIT TO VERIFY LOCATION AND DEPTH.



TOTAL PROPOSED IMPERVIOUS - 16,265 S.F.

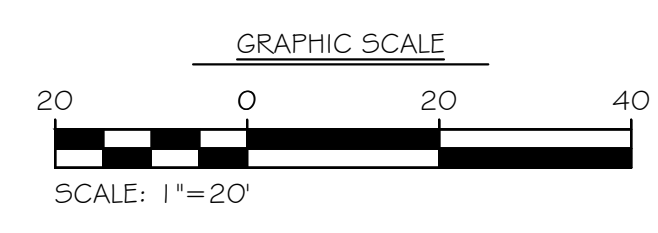
PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 28935 EXP. DATE: 1/15/2025

BID SET

PROPOSED IMPERVIOUS AREA MAP
- GRADING ONLY PLANS
MAIN STREET IMPROVEMENTS
TOWN OF SYKESVILLE
SYKESVILLE, MD 21784

DRAWING NO.
C-19
SHEET 19 OF 22
KCI JOB NUMBER
272206100.03

CARROLL COUNTY 13TH ELECTION DISTRICT

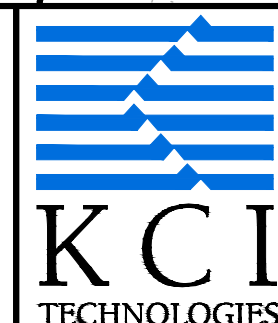


ENGINEER

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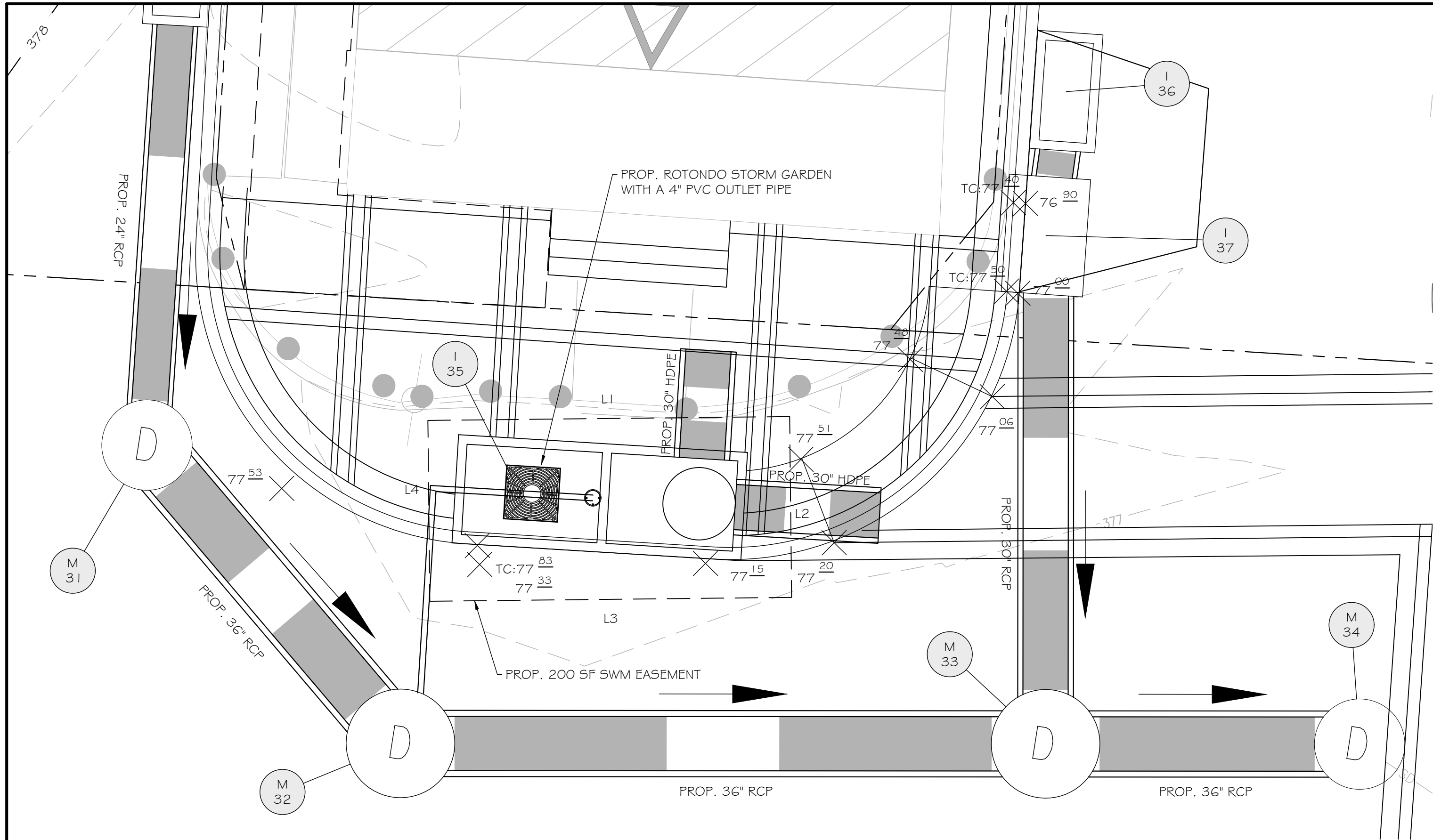
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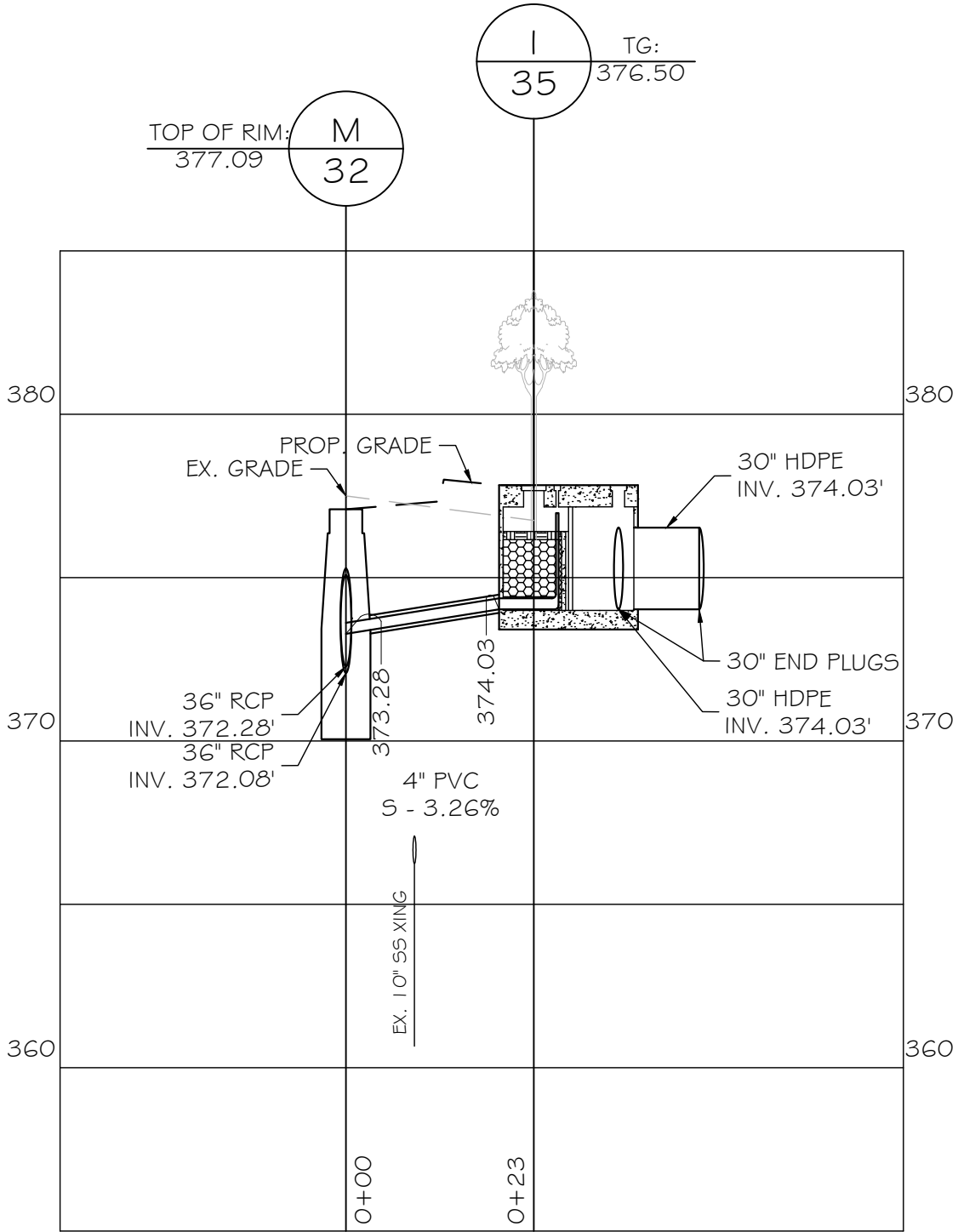
REVISIONS			
NO.	DATE	DESCRIPTION	BY

DATE
11/13/2024
SCALE
1"=20'
DESIGNED BY
KCI
CHECKED BY
KCI



STORM GARDEN #1 PLAN
SCALE 1" = 5'

ROTONDO STORM GARDEN #1 EASEMENT LINE TABLE		
LINE	BEARING	LENGTH
L1	N 80°25'41" E	60.0'
L2	S 09°34'11" E	60.0'
L3	N 80°25'41" W	60.0'
L4	N 09°34'11" W	60.0'
EASEMENT AREA = 200 SF/0.005 AC		



STORM GARDEN PROFILE - OKLAHOMA AVE.
SCALE HORIZ. - 1" = 20'
SCALE VERT. - 1" = 5'

ROTONDO TREE GARDEN MAINTENANCE

ALL STORM-WATER TREATMENT SYSTEMS REQUIRE MAINTENANCE FOR EFFECTIVE OPERATION. THIS NECESSITY IS OFTEN INCORPORATED IN YOUR PROPERTY'S PERMITTING PROCESS AS A LEGALLY BINDING BMP MAINTENANCE AGREEMENT.

- AVOIDING LEGAL CHALLENGES FROM YOUR JURISDICTION'S MAINTENANCE ENFORCEMENT PROGRAM.
- PROLONGING THE EXPECTED LIFE SPAN OF YOUR STORMGARDEN® MEDIA.
- AVOIDING MORE COSTLY MEDIA REPLACEMENTS.
- HELPING REDUCE POLLUTANT LOADS LEAVING YOUR PROPERTY.

Box Length	Box Width	Filter Surface Area (ft²)	Volume at 5" (ft³)	# of 2 ft³ Mulch Bags
4	4	16	6.67	4
6	4	24	10	5
8	4	32	13.33	7
10	4	40	16.67	9
12	4	48	20	10
6	6	36	15	8
8	6	48	20	10
10	6	60	25	13
12	6	72	30	15
13	7	91	37.91	19
16	8	128	53.33	27

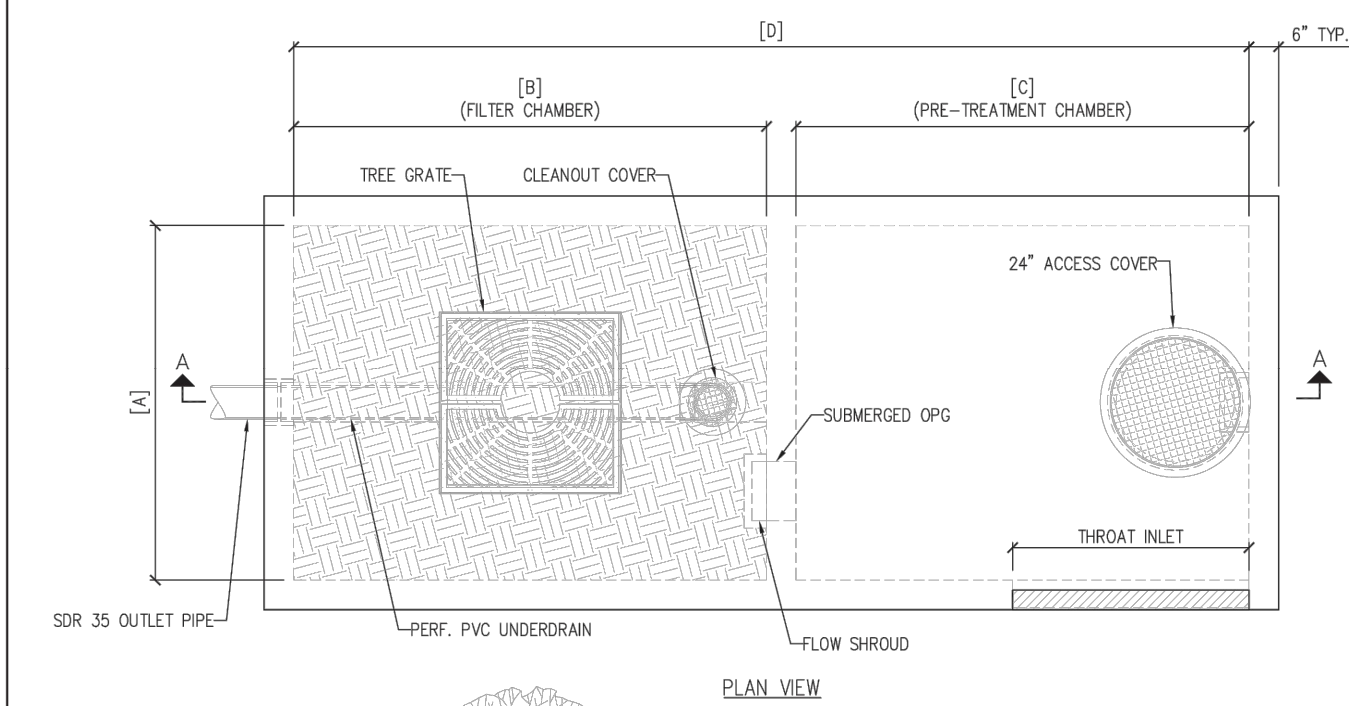
ROTONDO STORM GARDEN #1 INSTALLATION INSPECTION CHART

STAGE *	INSPECTORS APPROVAL*	
	INITIALS	DATE
1. EXCAVATION TO SUBGRADE		
2. CONSTRUCTION OF THE STORM GARDEN INLET STRUCTURES		
3. INSTALLATION OF OUTGOING PIPES.		
4. COMPLETION OF FINAL GRADING, PAVING, CONSTRUCTION OF STRUCTURE.		
5. PLACEMENT OF FILTER MEDIA AND TREE ACCORDING TO MANUFACTURERS SPECIFICATIONS.		
6. SUBMIT AS-BUILT PAPER PRINTS TO CARROLL COUNTY BUREAU OF RESOURCE MANAGEMENT WITHIN 60 DAYS OF CONSTRUCTION COMPLETION.		
PLEASE NOTIFY CERTIFYING ENGINEER 48 HOURS PRIOR COMMENCING CONSTRUCTION ENGINEER'S NAME: KCI PHONE NUMBER : (410) 316 - 7898		

ENGINEER'S AS-BUILT CERTIFICATION

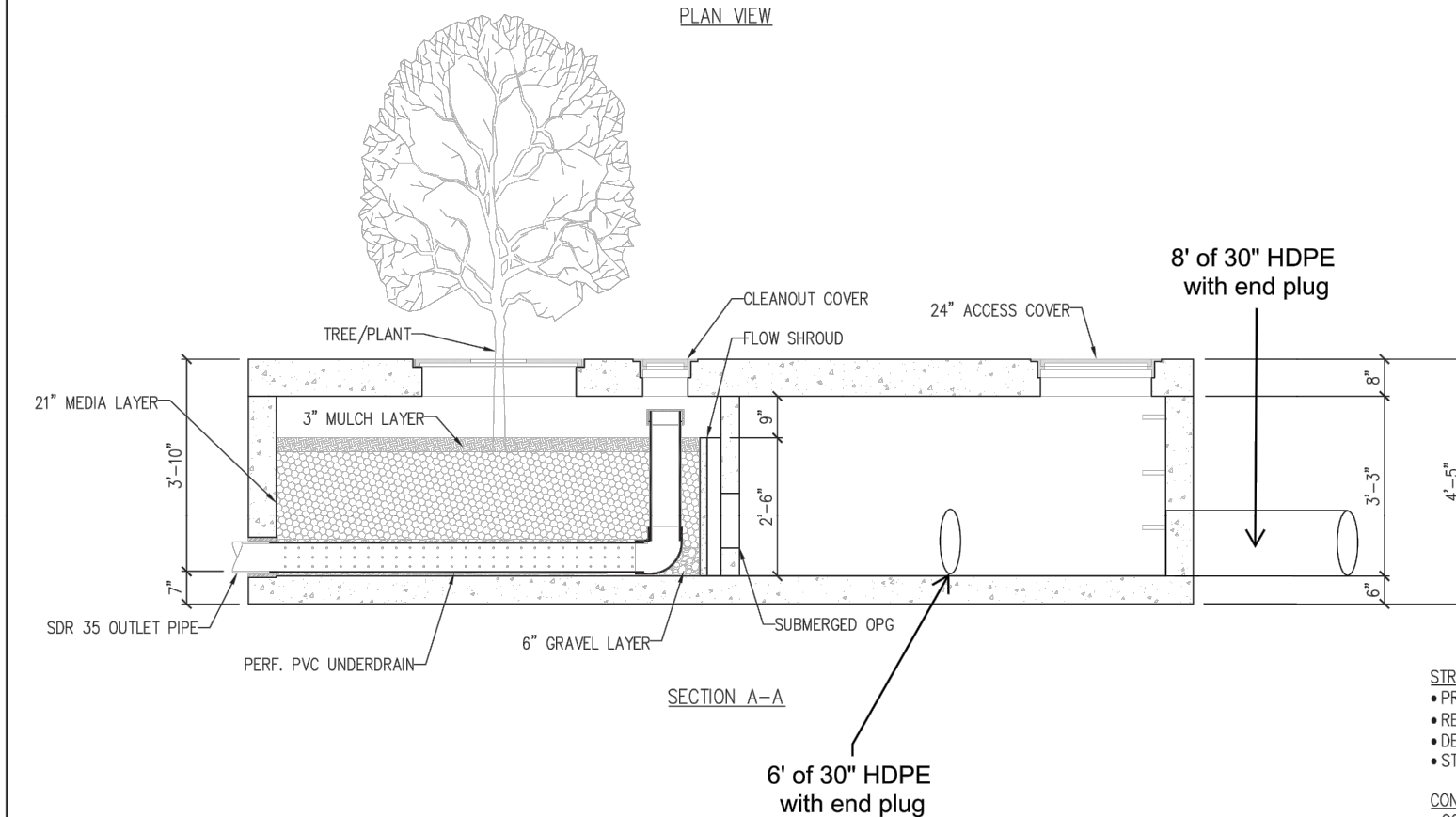
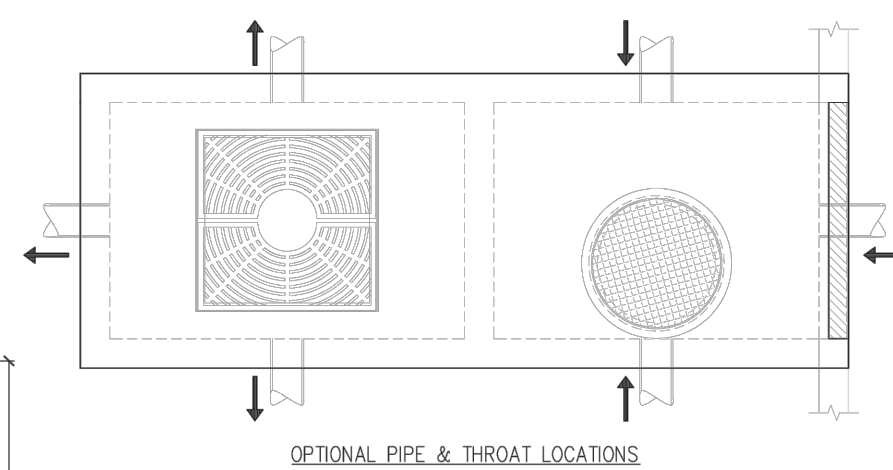
I HEREBY CERTIFY THAT THE FACILITY/FACILITIES SHOWN ON THIS/THESE PLAN(S) WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS. I ALSO CERTIFY THAT/THAT THESE FACILITIES WERE INSPECTED IN ACCORDANCE WITH SECTIONS § 136-22 AND § 136-23 OF THE CHARTER AND CODE OF THE CITY OF WESTMINSTER, MD AND I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND I AM A DULY LICENSED PROFESSIONAL ENGINEER OR PROFESSIONAL LAND SURVEYOR, AS APPROPRIATE, UNDER THE LAWS OF THE STATE OF MARYLAND.

SIGNED _____ DATE _____
XXXXXX _____ XXXXXXXX _____
LICENSE NO. _____ EXP. DATE _____



STANDARD HEIGHT CONFIGURATION (LONG SIDE INLET)									
DESIGNATION	[A]	[B]	[C]	[D]	TREATMENT FLOW CAPACITY (GPM/SP)	THROAT INLET LENGTH	TREE GRATE QTY & SIZE	OUTLET PIPE DIA (SIZES)	STORAGE CAPACITY PRIOR TO FILTRATION (CF)
SGPT-0404	4'	4'	3'-6"	8'	23.3 / 0.052	3'	(1) 3' x 3'	4"	57.50
SGPT-0406	4'	6'	5'-6"	12'	34.8 / 0.078	3'	(1) 3' x 3'	4"	85.50
SGPT-0408	4'	8'	7'-6"	16'	46.4 / 0.104	4'	(1) 3' x 3'	4"	121.50
SGPT-0606	6'	6'	5'-6"	12'	52.2 / 0.117	4'	(1) 3' x 3'	4"	134.25
SGPT-0608	6'	8'	7'-6"	16'	68.6 / 0.156	4'	(1) 3' x 3'	4"	182.25
SGPT-0610	6'	10'	9'-6"	20'	87.0 / 0.195	5'	(1) 3' x 3'	6"	210.75
SGPT-0706	7'	6'	6'-6"	13'	61.1 / 0.136	4'	(1) 3' x 3'	4"	179.38
SGPT-0710	7'	10'	9'-6"	20'	101.8 / 0.227	5'	(2) 3' x 3'	6"	268.63
SGPT-0810	8'	10'	9'-6"	20'	116.4 / 0.259	6'	(2) 3' x 3'	6"	307.00
SGPT-0811	8'	11'	10'-6"	22'	127.9 / 0.285	6'	(2) 3' x 3'	6"	339.00

- NOTES:
1. TREATMENT FLOW CAPACITY OF 1.45 GPM/SF OF MEDIA SURFACE AREA IS BASED ON WASHINGTON ECOLOGY GULD APPROVAL FOR BASIC AND PHOSPHOROUS
2. OTHER SIZES AVAILABLE UPON REQUEST
3. INTERNAL PIPE CONFIGURATION MAY VARY DEPENDING UPON OUTLET LOCATION
4. ALTERNATE LAYOUT ORIENTATION AVAILABLE



- STRUCTURE DESIGN SPECIFICATIONS:
• PRECAST CONCRETE MINIMUM (28-DAY) STRENGTH 5000 PSI.
• REINFORCING BARS CONFORMING TO ASTM A 615 (TY-60 KS).
• DESIGN LOAD: ASD/UD 165-20
• STRUCTURE DESIGN TO MEET A0 318

- CONSTRUCTION NOTES:
• CONTRACTOR TO GROUT WITH NON-SHRINK GROUT (MINIMUM 3,000 PSI COMPRESSIVE STRENGTH) BENEATH TOP SLAB TO MATCH FINISHED GRADES.



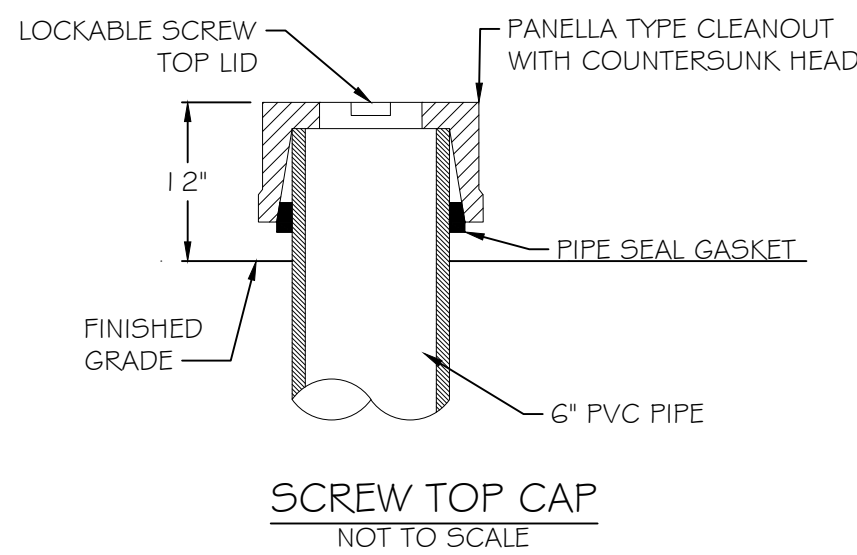
STORMWATER FACILITY DATA TABLE - ROTONDO STORM GARDEN			
OWNED & MAINTAINED BY	TOWN OF SYKESVILLE		
STRUCTURE CLASSIFICATION	STORM GARDEN		
RECEIVING STREAM CLASSIFICATION	WATERSHED #02130908 PATAPSCO RIVER SB		
CONTRIBUTORY AREA	USE 1		
IMPERVIOUS AREA	0.37 ACRES		
MAX. EMBANKMENT HEIGHT	0.26 ACRES		
EMBANKMENT WIDTH	N/A		
CENTROID COORDINATES:	N: 618521.20 E: 1320847.51		
UNIFORM STORMWATER SIZING CRITERIA:			
ESD VOLUME (ESD)	REQUIRED	PROVIDED	
OVERBANK FLOOD PROTECTION VOLUME(QP)	558	917	
EXTREME FLOOD VOLUME(QP)	NOT REQUIRED: NO IMMEDIATE FLOOD HAZARD		

SEQUENCE OF CONSTRUCTION

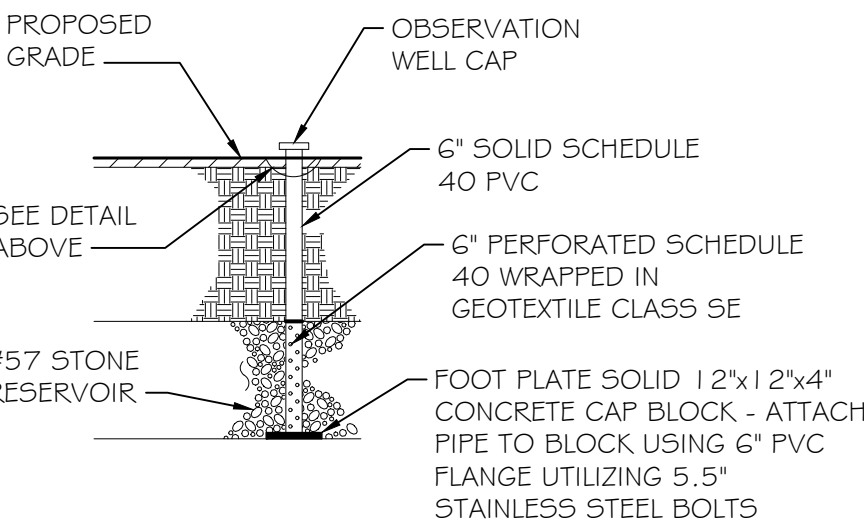
1. CONTACT THE CERTIFYING PROFESSIONAL ENGINEER/PROFESSIONAL LAND SURVEYOR. ONCE THE CERTIFYING PROFESSIONAL HAS GIVEN HIS/ HER APPROVAL IN ACCORDANCE WITH INSPECTION CHART.
2. EXCAVATE TO SUBGRADE.
3. INSTALL STORM GARDEN STRUCTURE ACCORDING TO MANUFACTURERS SPECIFICATIONS.
4. INSTALL INSTALL OUTGOING PIPES.
5. INSTALL PLANTING MEDIA AND TREE ACCORDING TO MANUFACTURERS SPECIFICATIONS.
6. SUBMIT AS-BUILT CERTIFICATION FOR BOND RELEASE.

LANDSCAPE NOTE

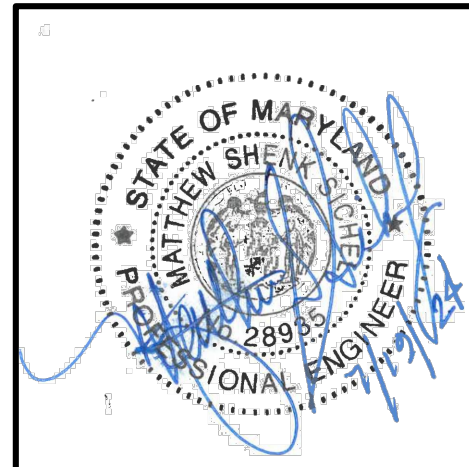
A TREE ON APPROVED TREE LIST FOR THE STORM GARDEN IS TO BE PROVIDED. VERIFICATION OF TREE WILL BE PROVIDED ON AS-BUILT.



NOTE:
THE TUBE SHALL HAVE A FACTORY ATTACHED CAST IRON OR HIGH IMPACT PLASTIC COLLAR WITH RIBS TO PREVENT ROTATION WHEN REMOVING SCREW TOP LID. THE SCREW TOP LID SHALL BE CAST IRON OR HIGH IMPACT PLASTIC THAT WILL WITHSTAND ULTRA-VIOLET RAYS.



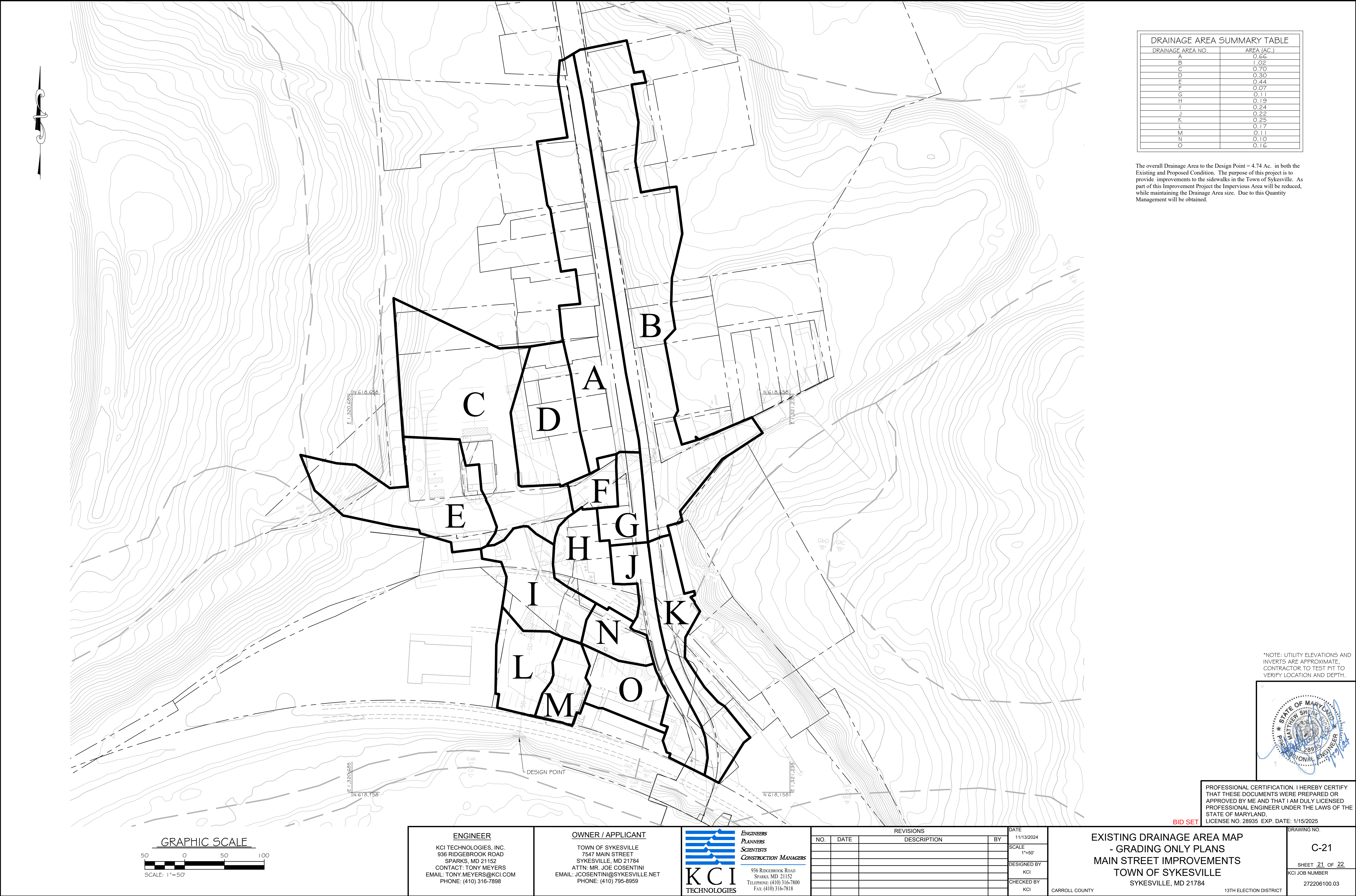
*NOTE: UTILITY ELEVATIONS AND INVERTS ARE APPROXIMATE, CONTRACTOR TO TEST PIT TO VERIFY LOCATION AND DEPTH.



PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 28935 EXP. DATE: 1/15/2025

BID SET

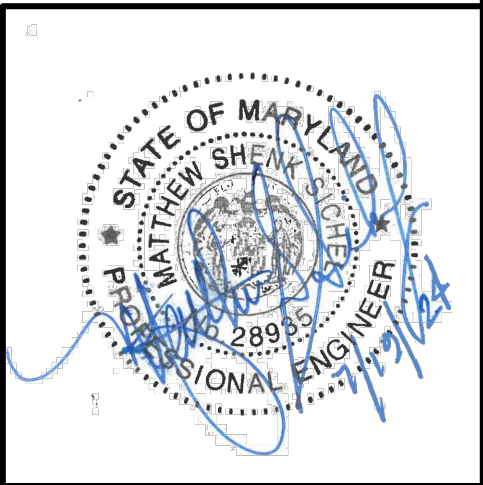
ENGINEER		OWNER / APPLICANT		REVISIONS		DATE		SWM DETAILS & NOTES - GRADING ONLY PLANS		DRAWING NO.	
KCI TECHNOLOGIES, INC. 936 RIDGEBROOK ROAD SPARKS, MD 21152 CONTACT: TONY MEYERS EMAIL: TONY.MEYERS@KCI.COM PHONE: (410) 316-7898		TOWN OF SYKESVILLE 7547 MAIN STREET SYKESVILLE, MD 21784 ATTN: MR. JOE COSENTINI EMAIL: JOESENTINI@SYKESVILLE.NET PHONE: (410) 795-8959		NO.		11/13/2024		MAIN STREET IMPROVEMENTS		C-20	
				DATE		SCALE		TOWN OF SYKESVILLE		SHEET 20 OF 22	
				DESCRIPTION		NTS		SYKESVILLE, MD 21784		KCI JOB NUMBER	
				BY		DESIGNED BY		CARROLL COUNTY		272206100.03	
				CHECKED BY		KCI		13TH ELECTION DISTRICT			



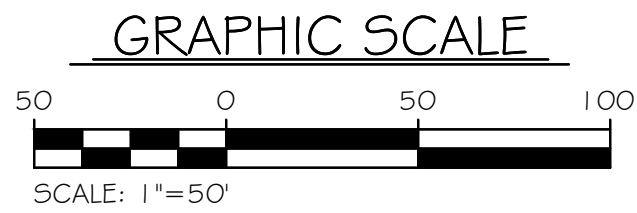
DRAINAGE AREA SUMMARY TABLE	
DRAINAGE AREA NO.	AREA (AC.)
A	0.66
B	1.02
C	0.70
D	0.30
E	0.44
F	0.07
G	0.11
H	0.19
I	0.24
J	0.22
K	0.25
L	0.17
M	0.11
N	0.10
O	0.16

The overall Drainage Area to the Design Point = 4.74 Ac. in both the Existing and Proposed Condition. The purpose of this project is to provide improvements to the sidewalks in the Town of Sykesville. As part of this Improvement Project the Impervious Area will be reduced, while maintaining the Drainage Area size. Due to this Quantity Management will be obtained.

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ENGINEER KCI TECHNOLOGIES, INC. 936 RIDGEBROOK ROAD SPARKS, MD 21152 CONTACT: TONY MEYERS EMAIL: TONY.MEYERS@KCI.COM PHONE: (410) 316-7898	OWNER / APPLICANT TOWN OF SYKESVILLE 7547 MAIN STREET SYKESVILLE, MD 21784 ATTN: MR. JOE COSENTINI EMAIL: JOESENTINI@SYKESVILLE.NET PHONE: (410) 795-8959	 KCI TECHNOLOGIES ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS 936 RIDGEBROOK ROAD SPARKS, MD 21152 TELEPHONE: (410) 316-7800 FAX: (410) 316-7818	<table><tr><th colspan="4">REVISIONS</th></tr><tr><th>NO.</th><th>DATE</th><th>DESCRIPTION</th><th>BY</th></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>	REVISIONS				NO.	DATE	DESCRIPTION	BY																					<table><tr><td>DATE 11/13/2024</td></tr><tr><td>SCALE 1"=50'</td></tr><tr><td>DESIGNED BY KCI</td></tr><tr><td>CHECKED BY KCI</td></tr></table>	DATE 11/13/2024	SCALE 1"=50'	DESIGNED BY KCI	CHECKED BY KCI	EXISTING DRAINAGE AREA MAP - GRADING ONLY PLANS MAIN STREET IMPROVEMENTS TOWN OF SYKESVILLE SYKESVILLE, MD 21784	<table><tr><td>DRAWING NO. C-21</td></tr><tr><td>SHEET <u>21</u> OF <u>22</u> KCI JOB NUMBER 272206100.03</td></tr></table>	DRAWING NO. C-21	SHEET <u>21</u> OF <u>22</u> KCI JOB NUMBER 272206100.03
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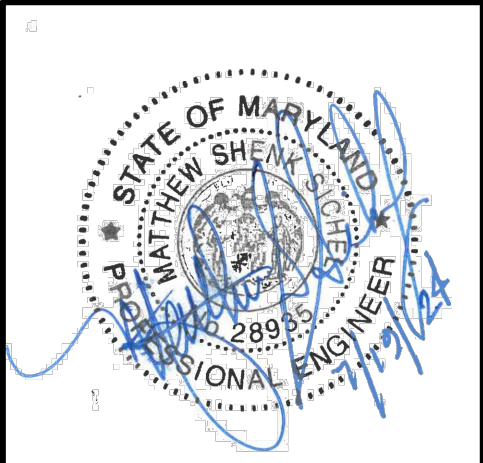


DRAINAGE AREA SUMMARY TABLE	
DRAINAGE AREA NO.	AREA (AC.)
A	0.66
B	1.02
C	0.68
D	0.30
E1	0.09
E2	0.37
F	0.06
G	0.13
H	0.19
I	0.24
J	0.22
K	0.25
L	0.08
M	0.19
N	0.08
O1	0.09
O2	0.09

The overall Drainage Area to the Design Point = 4.74 Ac. in both the Existing and Proposed Condition. The purpose of this project is to provide improvements to the sidewalks in the Town of Sykesville. As part of this Improvement Project the Impervious Area will be reduced, while maintaining the Drainage Area size. Due to this Quantity Management will be obtained.

LEGEND

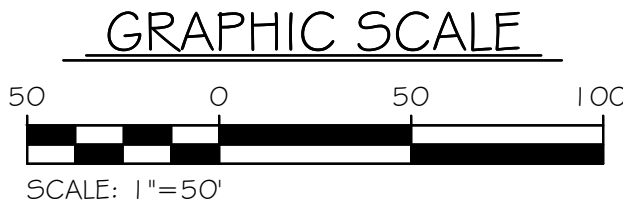
- LOD LIMIT OF DISTURBANCE
- 80 EX. MAJOR CONTOUR
- 78 EX. MINOR CONTOUR
- GgA GgC SOIL DIVIDE
- PROPERTY LINE
- EX. CURB & GUTTER
- EX. EDGE OF PAVEMENT
- W EX. WATER
- SS EX. SEWER
- SD EX. STORM DRAIN
- G EX. GAS
- FM EX. FORCE MAIN
- E EX. ELECTRIC
- OH EX. OVERHEAD ELECTRIC
- EX. FENCE
- EX. BUILDING FOOTPRINT
- EX. CONCRETE WALK
- EX. SPECIMEN TREE AND ROOT ZONE
- SP-1 EX. LIGHTPOLE
- EX. FIRE HYDRANT
- EX. SIGN
- EX. DOOR
- 80 PROP. MAJOR CONTOUR
- 78 PROP. MINOR CONTOUR
- PROP. CURB & GUTTER
- PROP. EDGE OF PAVEMENT
- PROP. STORM DRAIN
- PROP. SIGN
- PROP. IMPERVIOUS AREA
- PROP. GRASS AREA



BID SET

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