

UTILITY SCHEDULE

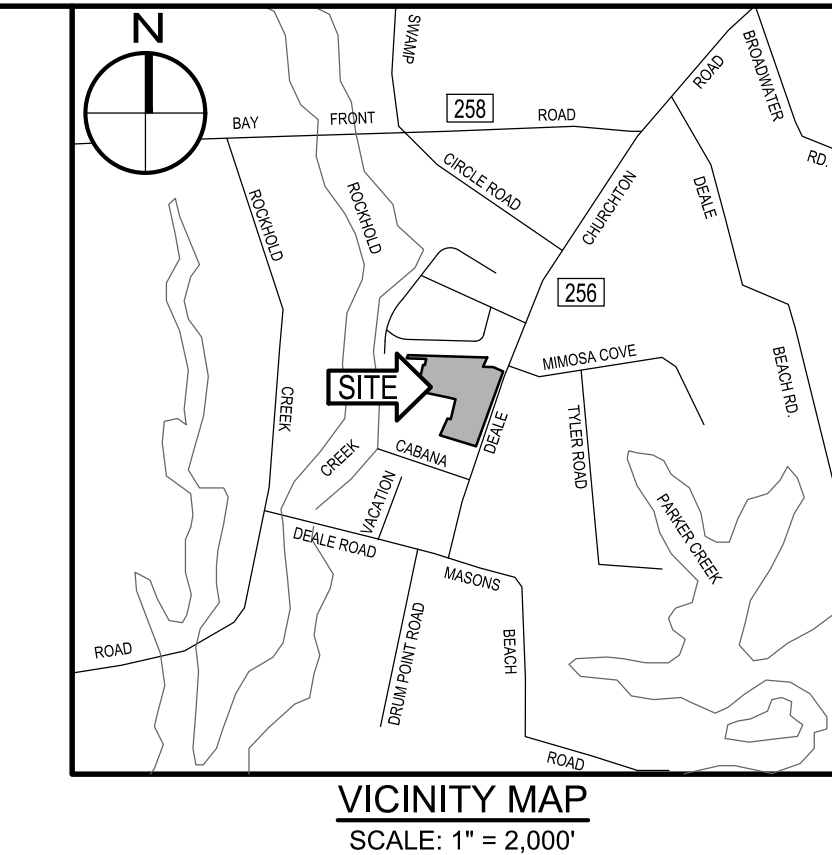
STRUCTURE	TOP	DIR.	INVERT	SIZE & TYPE
S-1057	9.36			
S-2004	8.27	N	-4.51	9'-12"
		S	-4.87	9'-12"
		E	-5.09	9'-12"
S-2013	8.35	N	-4.71	9'-12"
		S	-4.83	9'-12"
S-2116	7.79			BOLTED SHUT
S-2314	8.89	W	3.54	6"
		S	-0.74	36"
		N	-0.80	36"
S-2697	9.79	N	-1.28	24"
		E	-0.74	12"
		S	-1.28	24"

SURVEY TRAVERSE CONTROL LISTING

PT#	NORTHING	EASTING	ELEV.	DESCRIPTION
900	407.435.83	1,439,987.30	8.21	REBAR & CAP
901	407.813.91	1,440,130.68	8.61	REBAR & CAP
902	407.856.86	1,439,332.76	8.32	REBAR & CAP
903	407.187.94	1,439,923.33	8.67	REBAR & CAP
904	407.389.24	1,439,637.19	6.16	REBAR & CAP
905	407.269.48	1,439,702.90	6.65	REBAR & CAP
906	407.728.77	1,439,765.24	7.77	REBAR & CAP
907	407.947.67	1,439,453.50	7.77	REBAR & CAP
909	407.368.65	1,439,235.03	5.24	MAG NAIL SET

LEGEND

DESCRIPTION	EXISTING
BUILDING	EX. BLDG
BITUMINOUS CONCRETE PAVING	EX. MACADAM
PORTLAND CEMENT CONCRETE	EX. CONC.
BITUMINOUS CONCRETE MILL & OVERLAY	EX. MACADAM
BITUMINOUS CONCRETE PEDESTRIAN WALK	
DECIDUOUS / EVERGREEN TREES	
CLEAN OUT	
DRAIN INLET	
ELECTRIC MH	
FIRE HYDRANT	
GAS VALVE	
HAND BOX	
INLET MH	
UTILITY POLE	
SANITARY MH	
SIGN (ONE-POST)	
STORM DRAIN MH	
STREET LIGHT	
TRAVERSE STATION	
WATER MH	
WATER VALVE	
SPOT ELEVATION	
MAJOR CONTOUR	
MINOR CONTOUR	
WALL	
CONC. CURB	
SURVEY LIMITS	
FENCE LINE	
O/H ELECTRIC	
U/G ELECTRIC	
U/G GAS	
U/G SANITARY	
U/G STORM	
U/G WATER	
U/G TELEPHONE	
SOIL BORING	
LIMIT OF DISTURBANCE	
SOIL LINES	



GENERAL NOTES

- THIS PLAN IS BASED UPON A FIELD-RUN TOPOGRAPHIC SURVEY PERFORMED BY WBCM IN SEPTEMBER, 2021 AND REFLECTS SITE CONDITIONS AS OF THAT DATE.
- COORDINATES AND DIRECTIONS SHOWN HEREON ARE REFERRED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM, NAD 83/2011 AS DETERMINED FROM REAL TIME KINEMATIC SURVEYING AS BROADCAST BY THE LEICA SMARTNET NETWORK.
- ELEVATIONS SHOWN HEREON ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), AS DETERMINED BY R.T.K. G.P.S. OBSERVATIONS AS BROADCAST BY THE LEICA SMARTNET NETWORK(GEOD16).
- ADDITIONAL SPOT ELEVATIONS RESIDE IN THE ELECTRONIC VERSION OF THIS DRAWING BUT ARE NOT PLOTTED HEREON.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE DESCRIPTION OF THE UNDERGROUND UTILITIES AS SHOWN HEREON WERE BASED SOLELY UPON FIELD OBSERVATIONS AND HAVE NOT BEEN COMPARED TO OR VERIFIED WITH RECORD UTILITY DRAWINGS OR FIELD TEST PITS. THE SIZE, TYPE AND LOCATION OF THE UTILITY LINES SHOULD BE VERIFIED BY THE USER OF THIS DRAWING.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ACTUAL SITE CONDITIONS PRIOR TO THE START OF ANY WORK. THERE IS NO WARRANTY OR GUARANTEE ON THE COMPLETENESS OR CORRECTNESS OF THE EXISTING CONDITION INFORMATION. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO THE START OF ANY WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" AT 1-800-257-7777 THREE DAYS PRIOR TO THE START OF ANY EXCAVATION WORK.
- THE WORDS "CERTIFY" OR "CERTIFICATION" AS USED HEREON ARE UNDERSTOOD TO BE AN EXPRESSION OF PROFESSIONAL OPINION BY THE UNDERSIGNED SURVEYOR, BASED UPON HIS BEST KNOWLEDGE, INFORMATION, AND BELIEF. AS SUCH, IT DOES NOT CONSTITUTE A GUARANTEE NOR A WARRANTY, EXPRESSED OR IMPLIED.

CAUTION:
IF THIS DRAWING IS A REDUCTION,
USE THE GRAPHIC SCALES.

P:\2017\17141805\Drawings\07-Site\17141805-C101-Demolition Plan.dwg Feb. 08, 2023 1:48pm Plot By: rsmith

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License #27734 Expiration Date: 07/12/2024

REVISIONS

NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED	DATE	APPROVED	DATE

SCALE: 1" = 60'

DRAWN BY: R.S.S.
CHECKED BY: R.W.H.
SHEET NO. 02 OF 34
PROJECT NO.: P582001
CONTRACT NO.: P582001

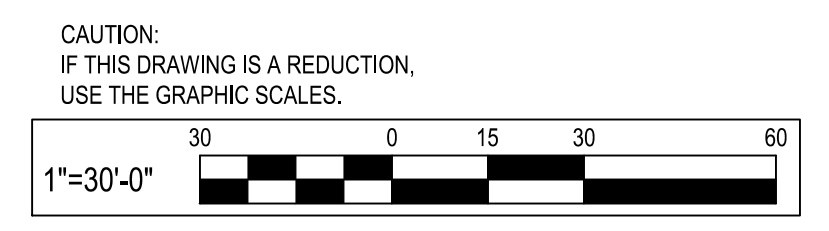
DEALE COMMUNITY PARK
OVERALL EXISTING CONDITIONS

DESCRIPTION	EXISTING	DEMOLISH / REMOVE
BUILDING	EX. BLDG	[Hatched Box]
BITUMINOUS CONCRETE PAVING	EX. MACADAM	[Dotted Box]
PORTLAND CEMENT CONCRETE	EX. CONC.	[Cross-hatched Box]
BITUMINOUS CONCRETE MILL & OVERLAY	EX. MACADAM	[Diagonal-hatched Box]
DECIDUOUS / EVERGREEN TREES	[Tree Symbols]	[Tree Symbols]

- DEMOLITION NOTES:**
- D-1 SAW CUT BITUMINOUS CONCRETE PAVING ALONG MARYLAND RTE. 256.
 - D-2 REMOVE EXISTING BITUMINOUS CONCRETE PAVING.
 - D-3 MILL 2" OF EXISTING BITUMINOUS PAVING.
 - D-4 REMOVE EXISTING BARN BUILDING STRUCTURE, EXISTING BLOCK BUILDING FOUNDATION TO REMAIN TO 2'-0" ABOVE GRADE FOR INTERPRETIVE SIGNAGE AND PEDESTRIAN PASSAGE OVER STREAM CONNECTING TO THE EXISTING LIBRARY PROPERTY.
 - D-5 REMOVE EXISTING SIGN.
 - D-6 REMOVE STORM DRAIN STRUCTURES AND CONNECTING PIPES.
 - D-7 REMOVE EXISTING SHRUBS AND PLANTER.
 - D-8 GRIND AND REMOVE EXISTING PAVEMENT MARKING.
 - D-9 REMOVE EXISTING WOOD BOLLARD.
 - D-10 CONTRACTOR TO COORDINATE WITH BG&E FOR REMOVAL OF EXISTING UTILITY POLE.
 - D-11 REMOVE EXISTING TREES.



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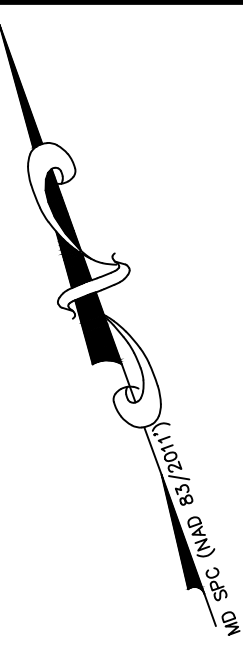
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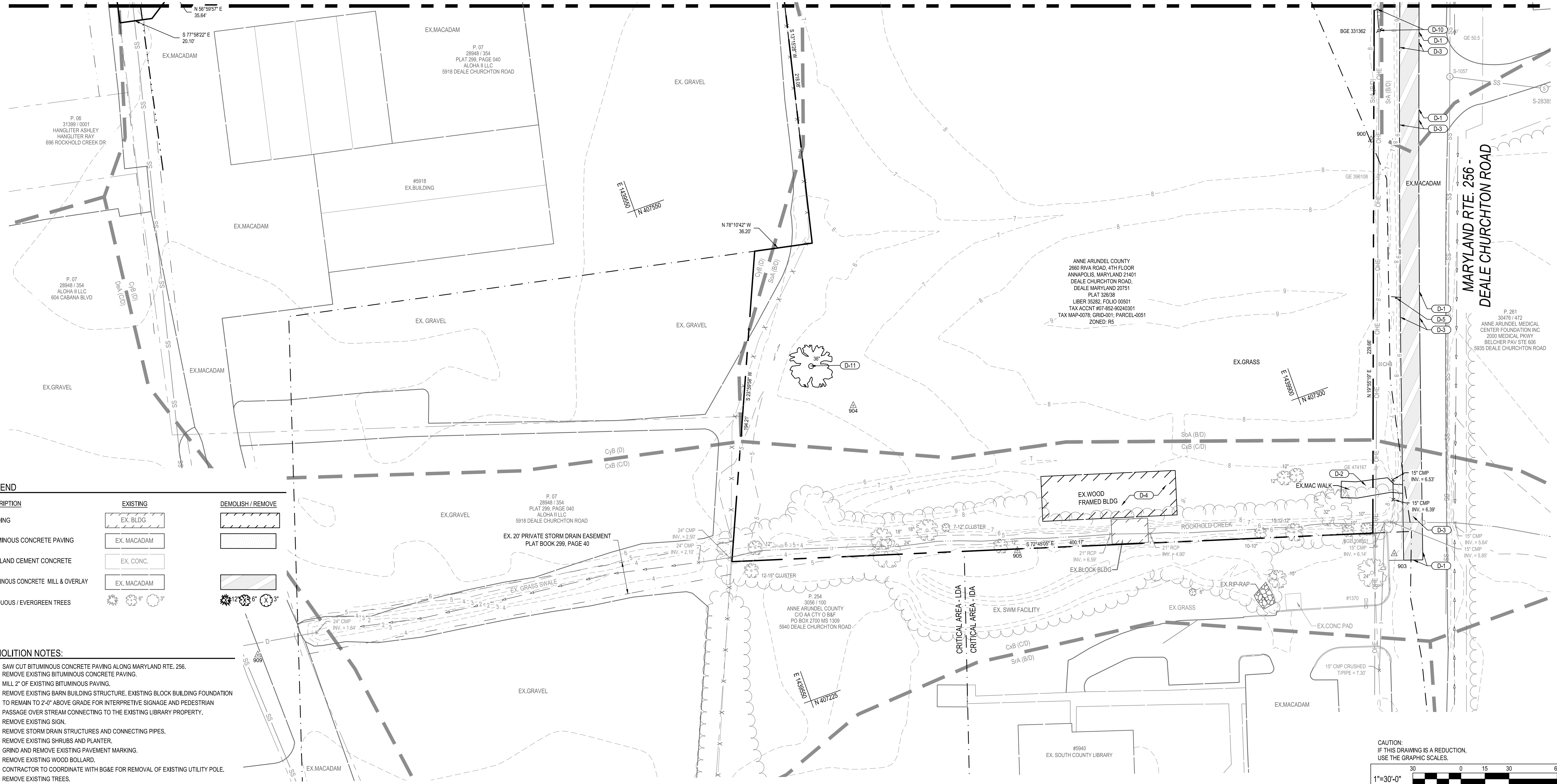
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REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	
SCALE: 1" = 30'		DRAWN BY: R.S.S.	
CHECKED BY: R.W.H.		SHEET NO. 03 OF 34	
PROJECT NO.: P582001		CONTRACT NO.: P582001	
DEALE COMMUNITY PARK			
DEMOLITION PLAN			



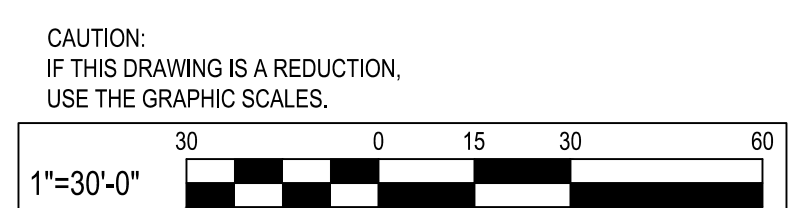
MATCH LINE SEE DEMOLITION PLAN



LEGEND

DESCRIPTION	EXISTING	DEMOLISH / REMOVE
BUILDING	EX. BLDG	[Hatched Box]
BITUMINOUS CONCRETE PAVING	EX. MACADAM	[Stippled Box]
PORTLAND CEMENT CONCRETE	EX. CONC.	[Solid Box]
BITUMINOUS CONCRETE MILL & OVERLAY	EX. MACADAM	[Diagonal Lines Box]
DECIDUOUS / EVERGREEN TREES	[Tree Symbols]	[Tree Symbols]

- DEMOLITION NOTES:**
- D-1 SAW CUT BITUMINOUS CONCRETE PAVING ALONG MARYLAND RTE. 266.
 - D-2 REMOVE EXISTING BITUMINOUS CONCRETE PAVING.
 - D-3 MILL 2" OF EXISTING BITUMINOUS PAVING.
 - D-4 REMOVE EXISTING BARN BUILDING STRUCTURE. EXISTING BLOCK BUILDING FOUNDATION TO REMAIN TO 2'-0" ABOVE GRADE FOR INTERPRETIVE SIGNAGE AND PEDESTRIAN PASSAGE OVER STREAM CONNECTING TO THE EXISTING LIBRARY PROPERTY.
 - D-5 REMOVE EXISTING SIGN.
 - D-6 REMOVE STORM DRAIN STRUCTURES AND CONNECTING PIPES.
 - D-7 REMOVE EXISTING SHRUBS AND PLANTER.
 - D-8 GRIND AND REMOVE EXISTING PAVEMENT MARKING.
 - D-9 REMOVE EXISTING WOOD BOLLARD.
 - D-10 CONTRACTOR TO COORDINATE WITH BGE FOR REMOVAL OF EXISTING UTILITY POLE.
 - D-11 REMOVE EXISTING TREES.



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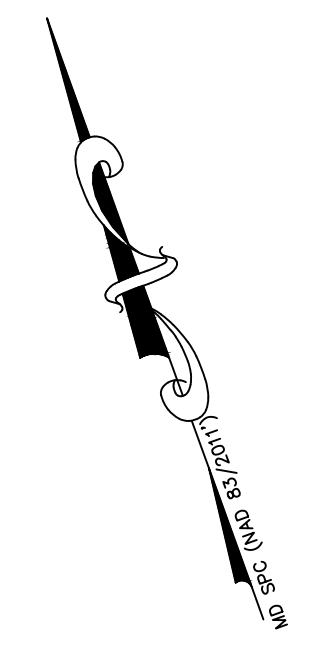
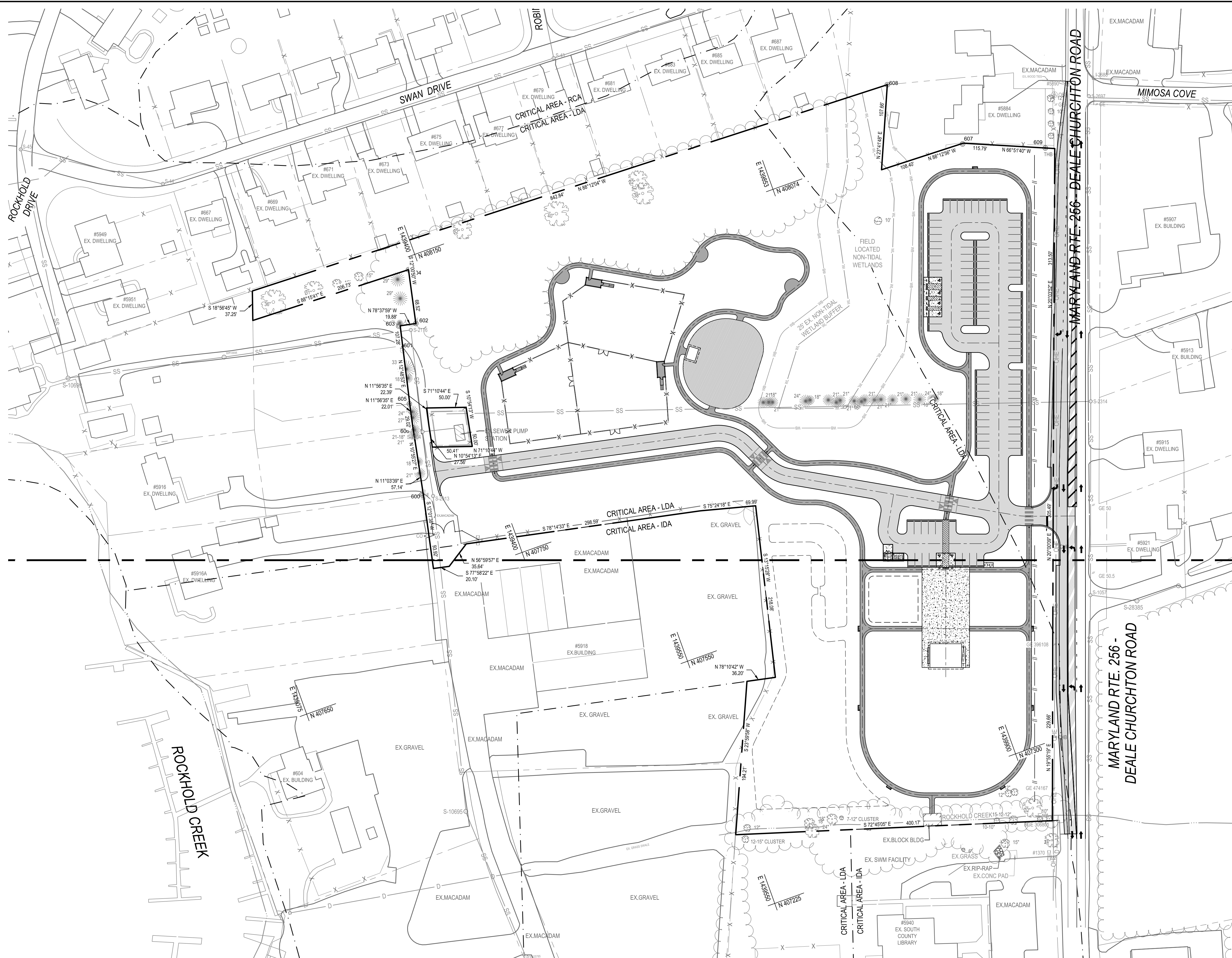
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REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	
SCALE: 1" = 30'		DRAWN BY: R.S.S.	
CHECKED BY: R.W.H.		SHEET NO. 04 OF 34	
PROJECT NO.: P582001		CONTRACT NO.: P582001	
DEALE COMMUNITY PARK			
DEMOLITION PLAN			

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DESCRIPTION	EXISTING	NEW
BUILDING	EX. BLDG	
BITUMINOUS CONCRETE PAVING	EX. MACADAM	
PORTLAND CEMENT CONCRETE	EX. CONC.	
BITUMINOUS CONCRETE MILL & OVERLAY	EX. MACADAM	
BITUMINOUS CONCRETE PEDESTRIAN WALK		
DECIDUOUS / EVERGREEN TREES		
CLEAN OUT		
DRAIN INLET		
ELECTRIC MH		
FIRE HYDRANT		
GAS VALVE		
HAND BOX		
INLET MH		
UTILITY POLE		
SANITARY MH		
SIGN (ONE-POST)		
STORM DRAIN MH		
STREET LIGHT		
TRAVERSE STATION		
WATER MH		
WATER VALVE		
SPOT ELEVATION		
MAJOR CONTOUR		
MINOR CONTOUR		
WALL		
CONC. CURB		
SURVEY LIMITS		
FENCE LINE		
O/H ELECTRIC		
U/G ELECTRIC		
U/G GAS		
U/G SANITARY		
U/G STORM		
U/G WATER		
U/G TELEPHONE		
SOIL BORING		
LIMIT OF DISTURBANCE		
SOIL LINES		

CAUTION:
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1"=60'-0"

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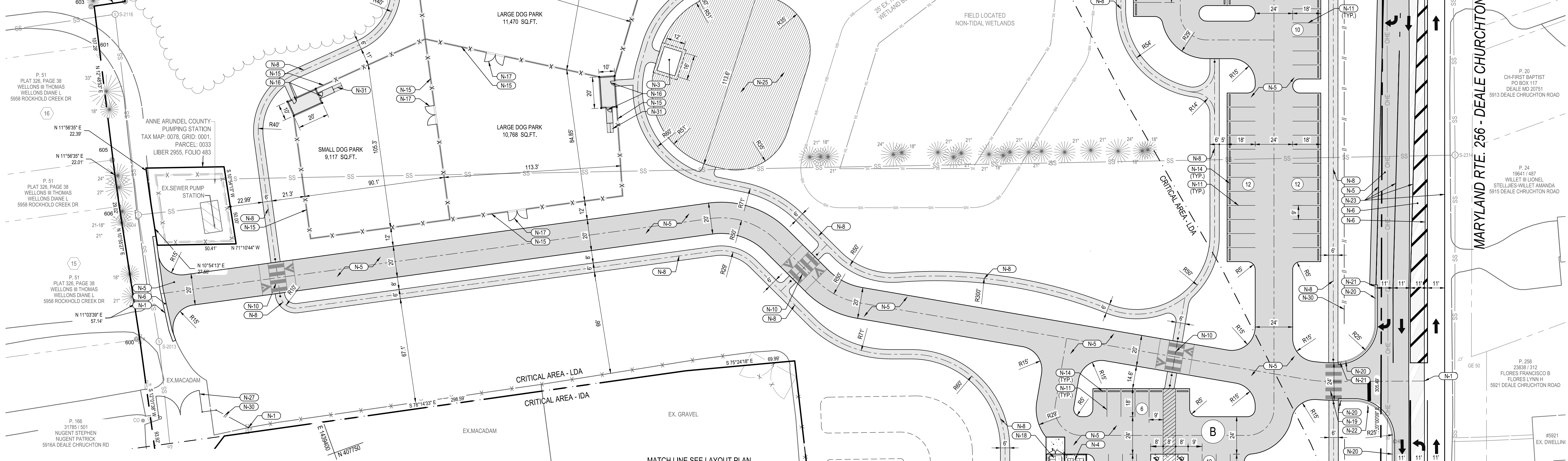
REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	
SCALE: 1" = 60'		DRAWN BY: R.S.S.	
CHECKED BY: R.W.H.		SHEET NO. 05 OF 34	
PROJECT NO.: P582001		CONTRACT NO.: P582001	
DEALE COMMUNITY PARK			
OVERALL SITE LAYOUT PLAN			

DESCRIPTION	EXISTING	NEW
BUILDING	EX. BLDG	
BITUMINOUS CONCRETE PAVING	EX. MACADAM	
PORTLAND CEMENT CONCRETE	EX. CONC.	
BITUMINOUS CONCRETE MILL & OVERLAY	EX. MACADAM	
BITUMINOUS CONCRETE PEDESTRIAN WALK		

CONSTRUCTION NOTES:

- N-1 MEET EXISTING CONDITIONS.
- N-2 NEW 30' x 40' OPEN AIR PAVILION.
- N-3 NEW 12' x 16' OPEN AIR PAVILION.
- N-4 NEW PORTABLE TOILETS (PROVIDED BY OWNER) WITH WOOD ENCLOSURE. SEE DETAIL #18 ON SITE DETAILS.
- N-5 NEW FULL DEPTH BITUMINOUS CONCRETE PAVING. SEE DETAIL #1 ON SITE DETAILS.
- N-6 NEW BITUMINOUS CONCRETE CONCRETE MILL AND OVERLAY. SEE DETAIL #2 ON SITE DETAILS.
- N-7 NEW CONCRETE SIDEWALK. SEE DETAIL #3 ON SITE DETAILS.
- N-8 NEW BITUMINOUS CONCRETE PEDESTRIAN TRAIL. SEE DETAIL #4 ON SITE DETAILS.
- N-9 NEW CONCRETE PAVING. SEE DETAIL #5 ON SITE DETAILS.
- N-10 NEW RAISED PEDESTRIAN CROSSWALK WITH REMOVABLE BOLLARD AT EACH END. SEE DETAIL #19 ON SITE DETAILS.
- N-11 NEW 4" STANDARD PARKING STRIPING. SEE DETAIL #6 ON SITE DETAILS.
- N-12 NEW ADA ACCESSIBLE PARKING STRIPING. SEE DETAIL #7 ON SITE DETAILS.
- N-13 NEW ADA ACCESSIBLE PARKING SIGN. SEE DETAIL #8 ON SITE DETAILS.
- N-14 NEW CONCRETE WHEEL STOP. SEE DETAIL #9 ON SITE DETAILS.
- N-15 NEW 4'-0" HIGH CHAIN LINK FENCE. SEE DETAIL #10 ON SITE DETAILS.
- N-16 NEW 4'-0" HIGH CHAIN LINK SINGLE GATE. SEE DETAIL #11 ON SITE DETAILS.
- N-17 NEW 4'-0" HIGH CHAIN LINK DOUBLE GATE. SEE DETAIL #12 ON SITE DETAILS.
- N-18 NEW NEW DUMPSTER PAD WITH ENCLOSURE. SEE DETAIL #13 ON SITE DETAILS.
- N-19 NEW PEDESTRIAN CROSSWALK. SEE DETAIL #14 ON SITE DETAILS.
- N-20 NEW SHA TYPE 'A' CONCRETE CURB AND GUTTER. SEE DETAIL #15 ON SITE DETAILS.
- N-21 NEW 2'-0" NOSE DOWN CONCRETE CURB. SEE DETAIL #16 ON SITE DETAILS.
- N-22 NEW 30" STOP SIGN (R1-1) LOCATED IN ACCORDANCE WITH MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MD MUTCD). SEE DETAIL #17 ON SITE DETAILS.
- N-23 NEW 5-INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING.
- N-24 NEW 5-INCH SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING.
- N-25 NEW PLAYGROUND WITH SAFETY SURFACE.
- N-26 AREA SET ASIDE FOR FUTURE WATERMAN'S MEMORIAL.
- N-27 NEW MANUAL DUAL SWING GATE. SEE DETAIL #20 ON SITE DETAILS.
- N-28 NEW PARK BENCH ON CONCRETE PAD. SEE DETAIL #21 ON SITE DETAILS.
- N-29 NEW BIKE RACK ON CONCRETE PAD. SEE DETAIL #22 ON SITE DETAILS.
- N-30 NEW SPLIT RAIL FENCING. SEE DETAIL #23 ON SITE DETAILS.
- N-31 NEW SHADE STRUCTURE WITH BENCH. SEE DETAIL #24 ON SITE DETAILS.

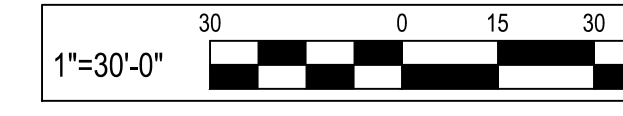


PARKING TOTALS:

PARKING LOT 'A'	PROPOSED STANDARD PARKING SPACES:	88 SPACES
	PROPOSED STANDARD HANDICAPPED SPACES:	2 SPACES
	PROPOSED HANDICAPPED (VAN ACCESSIBLE):	2 SPACES
	TOTAL:	92 SPACES

PARKING LOT 'B'	PROPOSED STANDARD PARKING SPACES:	14 SPACES
	PROPOSED STANDARD HANDICAPPED SPACES:	2 SPACES
	PROPOSED HANDICAPPED (VAN ACCESSIBLE):	16 SPACES
	TOTAL:	16 SPACES

GRAND TOTAL: 108 SPACES



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NO.	DESCRIPTION	BY	DATE

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DEPARTMENT OF PUBLIC WORKS

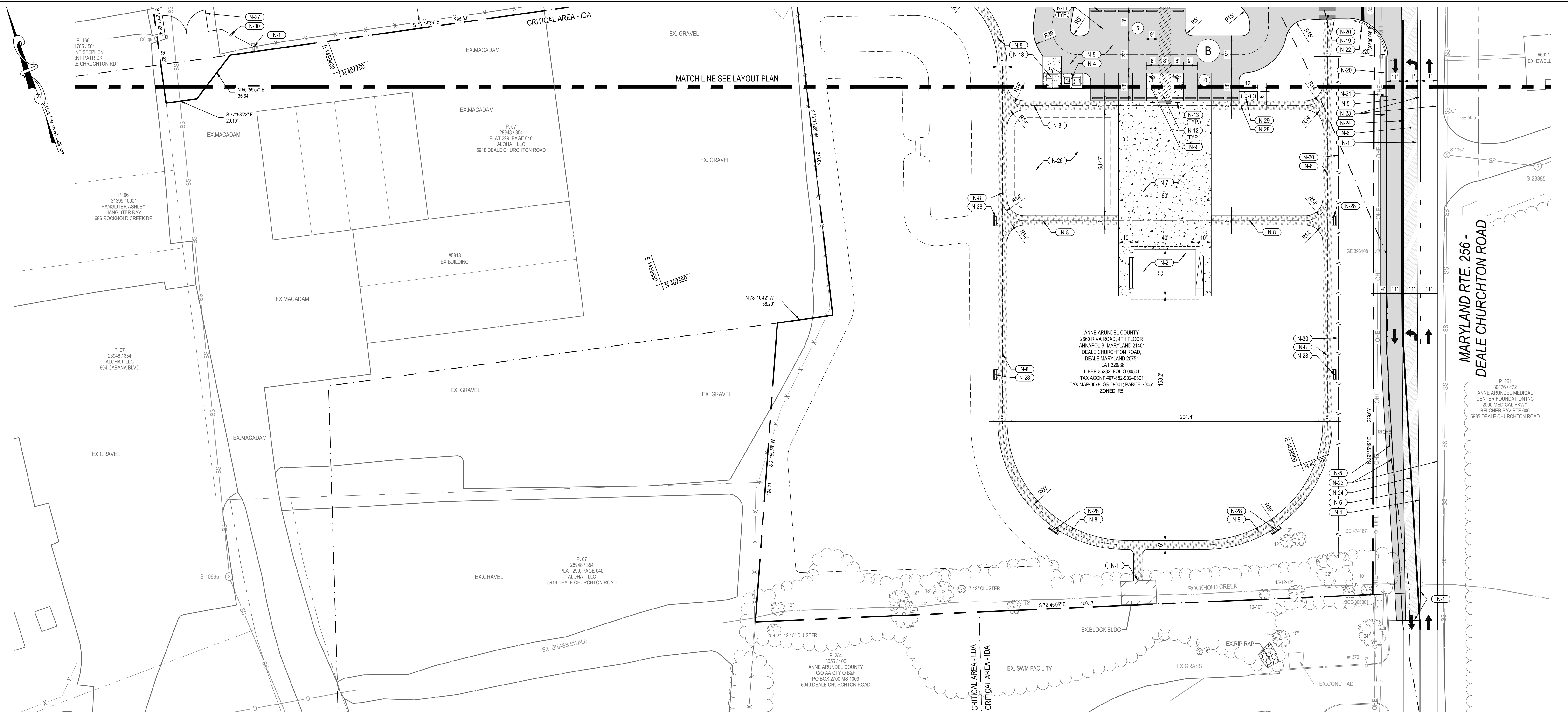
APPROVED	DATE	APPROVED	DATE

SCALE: 1" = 30'
DRAWN BY: R.S.S.
CHECKED BY: R.W.H.
SHEET NO. 06 OF 34
PROJECT NO.: P582001
CONTRACT NO.: P582001

DEALE COMMUNITY PARK
SITE LAYOUT PLAN

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CONSTRUCTION NOTES:

- N-1 MEET EXISTING CONDITIONS.
- N-2 NEW 30' x 40' OPEN AIR PAVILION.
- N-3 NEW 12' x 16' OPEN AIR PAVILION.
- N-4 NEW PORTABLE TOILETS (PROVIDED BY OWNER) WITH WOOD ENCLOSURE, SEE DETAIL #18 ON SITE DETAILS.
- N-5 NEW FULL DEPTH BITUMINOUS CONCRETE PAVING, SEE DETAIL #1 ON SITE DETAILS.
- N-6 NEW BITUMINOUS CONCRETE CONCRETE MILL AND OVERLAY, SEE DETAIL #2 ON SITE DETAILS.
- N-7 NEW CONCRETE SIDEWALK, SEE DETAIL #3 ON SITE DETAILS.
- N-8 NEW BITUMINOUS CONCRETE PEDESTRIAN TRAIL, SEE DETAIL #4 ON SITE DETAILS.
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- N-28 NEW PARK BENCH ON CONCRETE PAD, SEE DETAIL #21 ON SITE DETAILS.
- N-29 NEW BIKE RACK ON CONCRETE PAD, SEE DETAIL #22 ON SITE DETAILS.
- N-30 NEW SPLIT RAIL FENCING, SEE DETAIL #23 ON SITE DETAILS.
- N-31 NEW SHADE STRUCTURE WITH BENCH, SEE DETAIL #24 ON SITE DETAILS.

PARKING TOTALS:

PARKING LOT 'A'	
PROPOSED STANDARD PARKING SPACES:	88 SPACES
PROPOSED STANDARD HANDICAPPED SPACES:	2 SPACES
PROPOSED HANDICAPPED (VAN ACCESSIBLE):	2 SPACES
TOTAL:	92 SPACES
PARKING LOT 'B'	
PROPOSED STANDARD PARKING SPACES:	14 SPACES
PROPOSED STANDARD HANDICAPPED SPACES:	2 SPACES
PROPOSED HANDICAPPED (VAN ACCESSIBLE):	2 SPACES
TOTAL:	16 SPACES
GRAND TOTAL:	108 SPACES

LEGEND

DESCRIPTION	EXISTING	NEW
BUILDING		
BITUMINOUS CONCRETE PAVING		
PORTLAND CEMENT CONCRETE		
BITUMINOUS CONCRETE MILL & OVERLAY		
BITUMINOUS CONCRETE PEDESTRIAN WALK		



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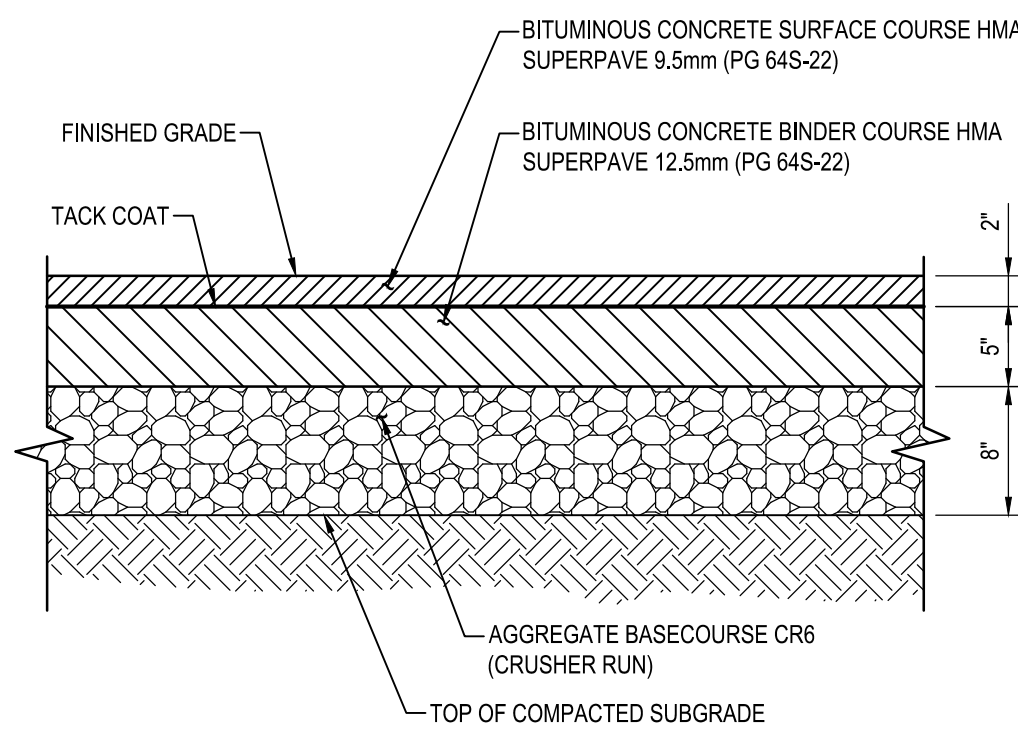
REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: 1" = 30'
CHIEF ENGINEER	PROJECT MANAGER	DRAWN BY: R.S.S.
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: R.W.H.
ASSISTANT CHIEF ENGINEER	CHIEF, RIGHT-OF-WAY	SHEET NO. 07 OF 34
		PROJECT NO.: P582001
		CONTRACT NO.: P582001

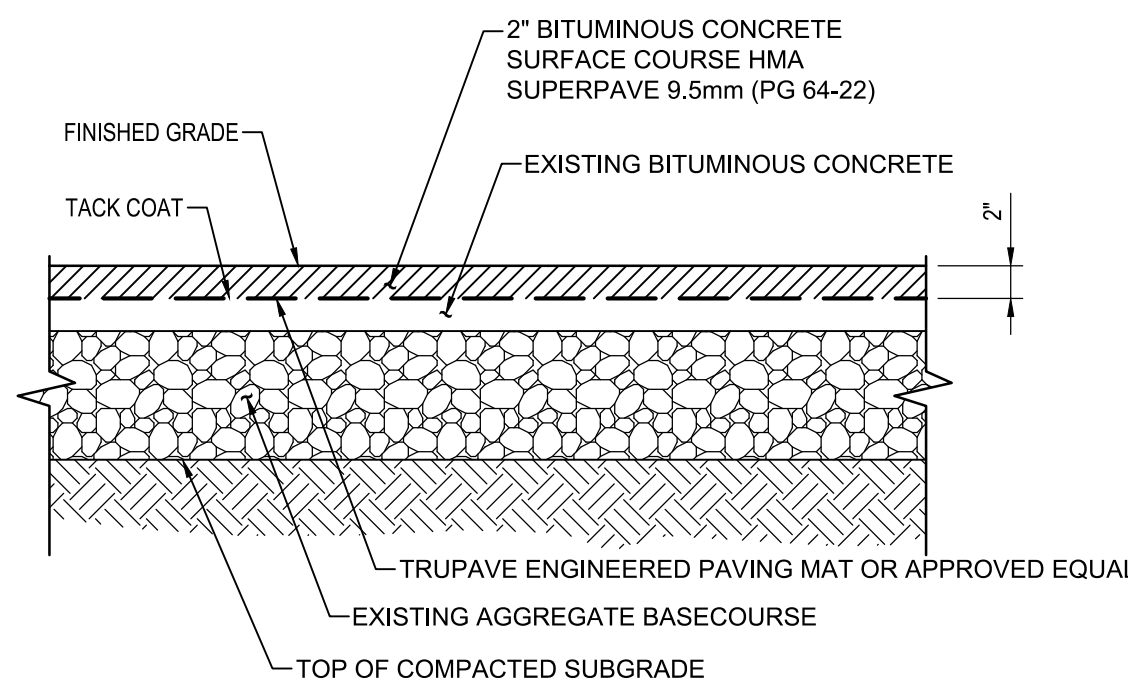
DEALE COMMUNITY PARK

SITE LAYOUT PLAN



SECTION

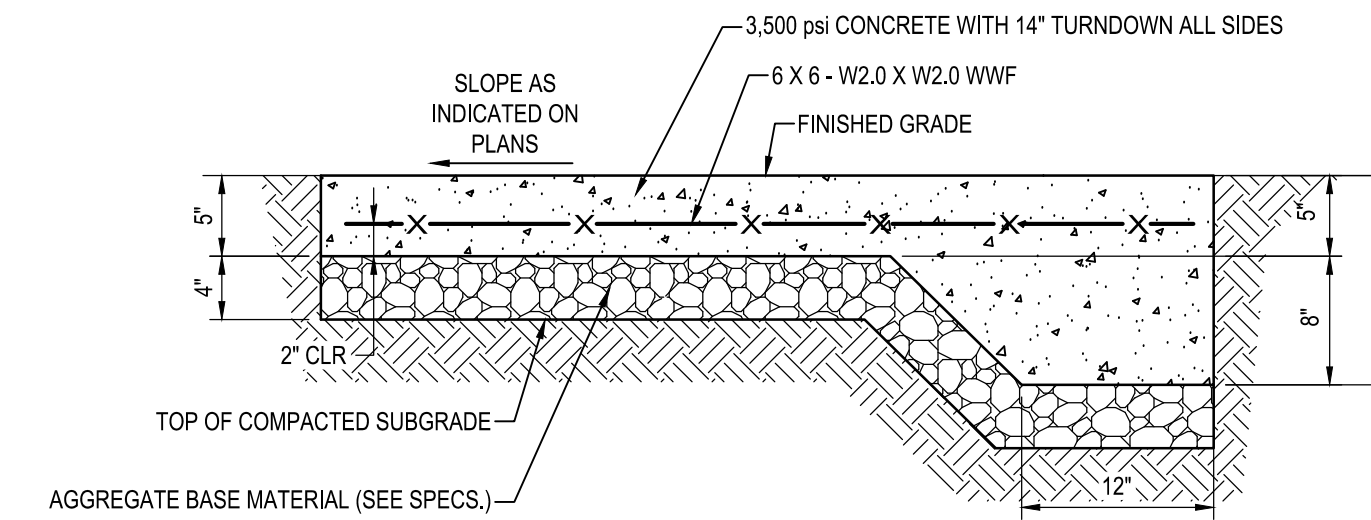
1 FULL DEPTH BITUMINOUS CONCRETE PAVING
SCALE: 1" = 1'-0"



SECTION

2 BITUMINOUS CONCRETE MILL AND OVERLAY
SCALE: 1" = 1'-0"

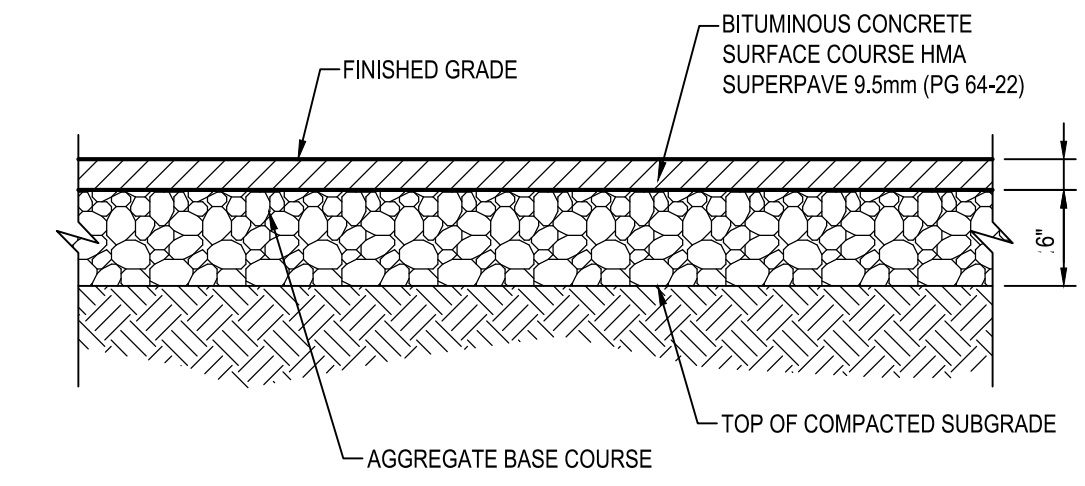
- NOTES:
1. MAINTAIN POSITIVE DRAINAGE AT ALL TIMES.
 2. AT PERIMETERS OF OVERLAY PAVING AREAS, MEET NEW ROAD PAVING SECTION FINISHED GRADE FLUSH.
 3. MILL THE TOP 2 INCHES OF THE PARKING LOT AND ROADWAY SURFACE.
 4. EXAMINE THE MILLED SURFACE. CUT OUT ANY FAILED BASE COURSE AREA EXHIBITING ALLIGATOR OR PATCHWORK CRACKING, WHICH MAY HAVE BEEN HIDDEN BELOW THE SURFACE COURSE, TO EXPOSE THE UNDERLYING SOIL OR CRUSHED STONE BASE.
 5. CLEAN EXPOSED LINEAR CRACKS IN THE EXPOSED SURFACE, FILLING CRACKS THINNER THAN 1/4-INCH WIDTH WITH LIQUID ASPHALT AND FILLING CRACKS LARGER THAN 1/4-INCH WITH SAND/ASPHALT MIX.
 6. PLACE THE LIQUID ASPHALT TACK COAT AND APPROPRIATE PAVEMENT GRADE GEOTEXTILE FABRIC ACROSS THE ENTIRE OVERLAY AREA TO MEET MANUFACTURER'S REQUIREMENTS. PAVING FABRIC SHOULD BE INSTALLED BY AN APPROVED SPECIALTY CONTRACTOR.
 7. PLACE A 2-INCH THICK OVERLAY SECTION OF HOT-MIX ASPHALT (8.5MM SUPERPAVE, LEVEL 10) OVER THE ENTIRE OVERLAY AREA.



SECTION

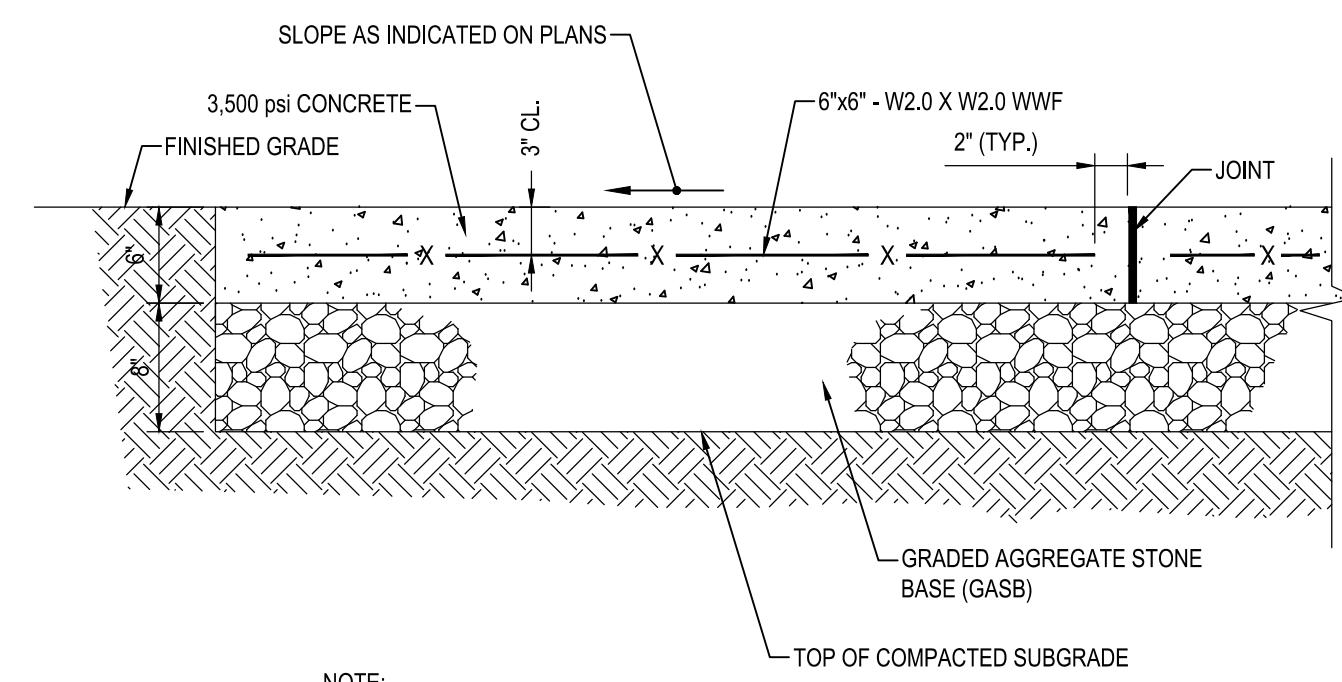
3 CONCRETE SIDEWALK
SCALE: 1" = 1'-0"

- NOTES:
1. 2\"/>



SECTION

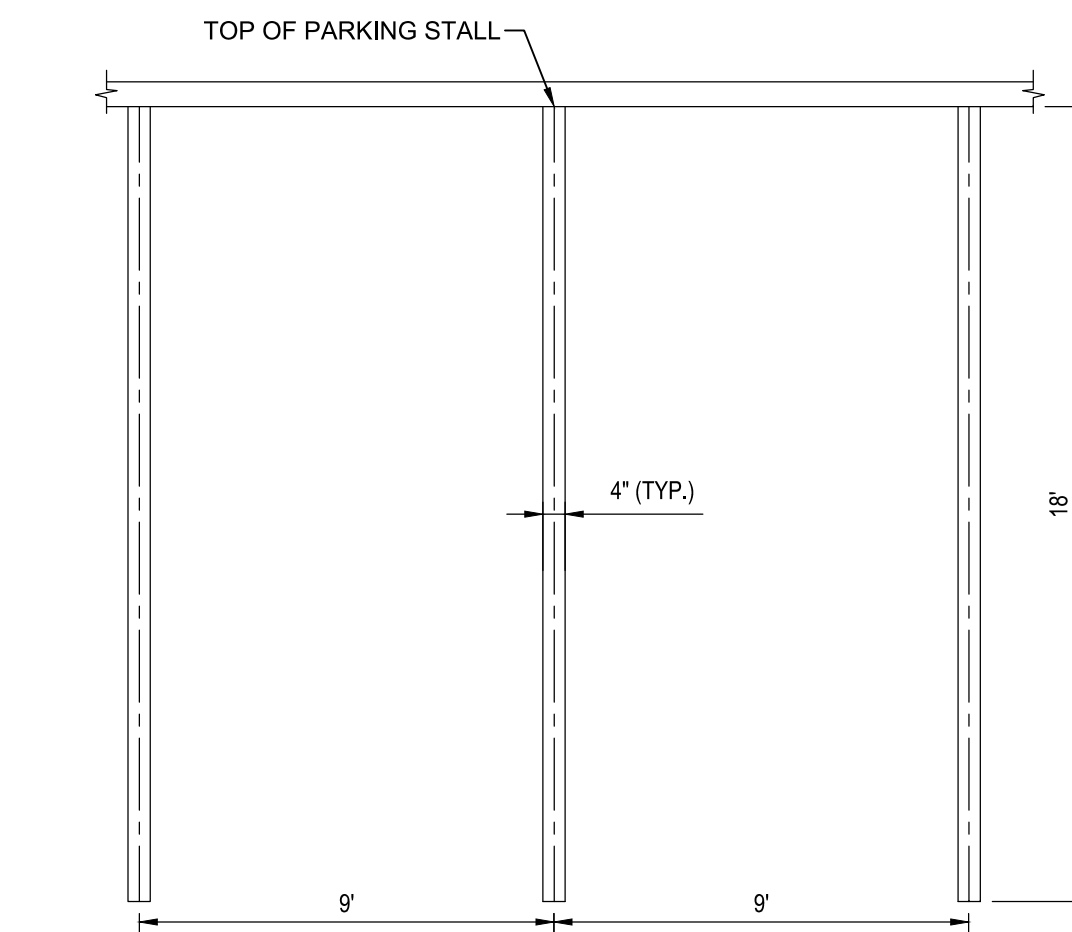
4 BITUMINOUS PEDESTRIAN TRAIL
SCALE: 1" = 1'-0"



SECTION

5 CONCRETE PAVING
SCALE: 1" = 1'-0"

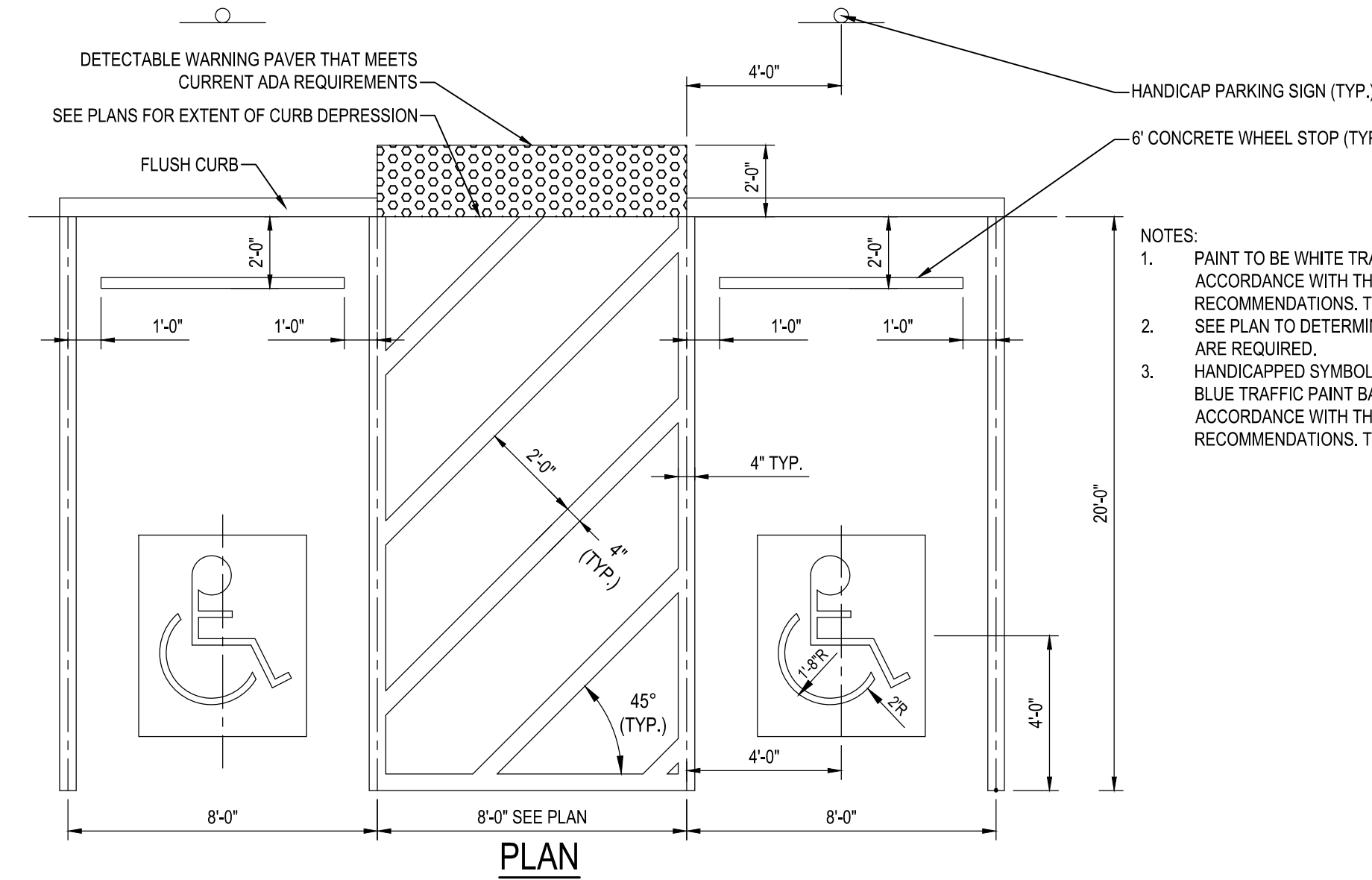
- NOTE:
1. AT CONTRACTION JOINTS, CUT ALTERNATE WIRES CROSSING JOINT.
 2. AT KEYS THICKENED EDGE JOINTS, STOP W.W.F. EACH SIDE OF JOINT.



PLAN

6 4" STANDARD PAVEMENT STRIPING
NOT TO SCALE

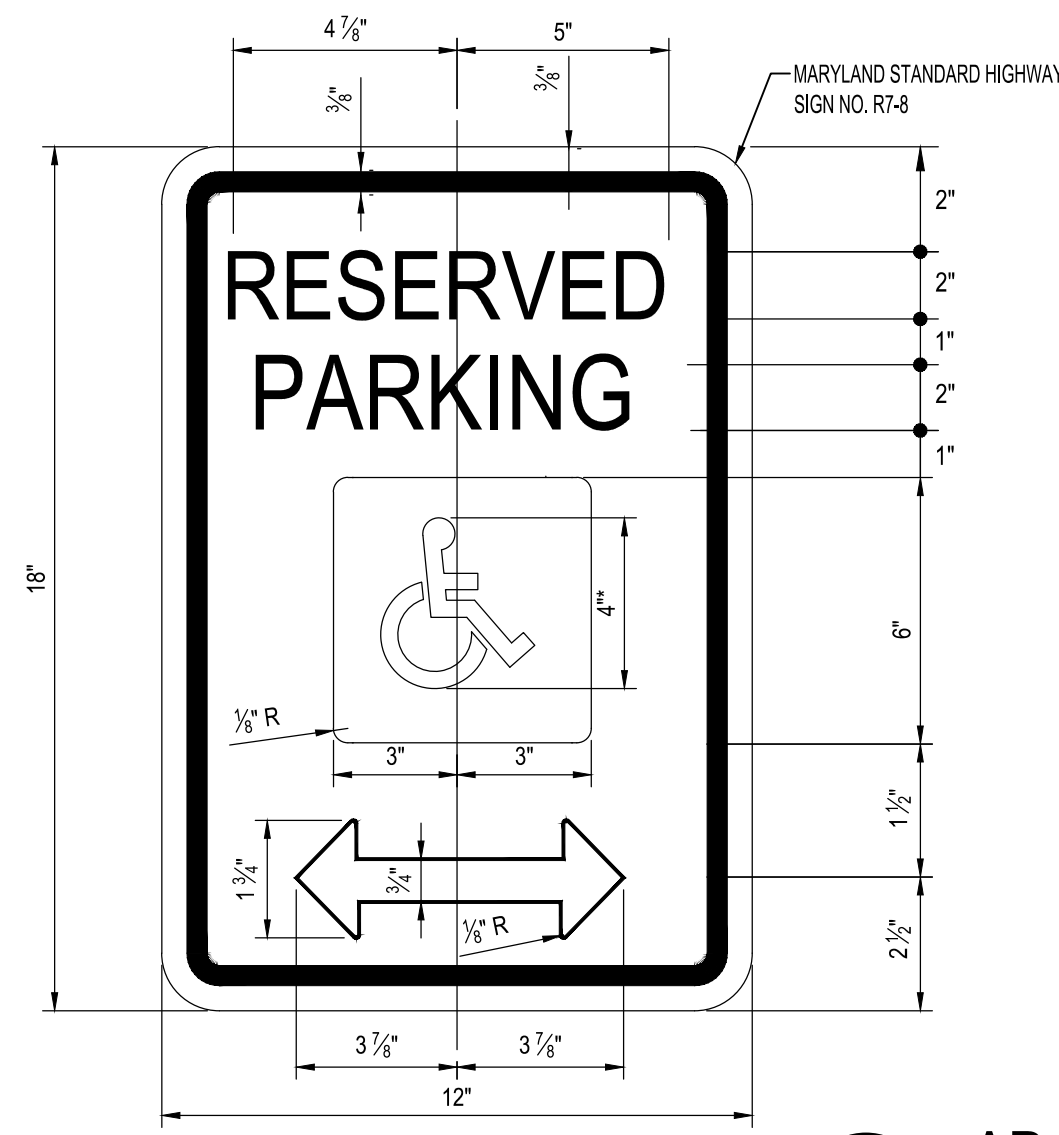
- NOTES:
1. PAINT IS TO BE WHITE TRAFFIC PAINT APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS (TWO (2) COATS REQUIRED).
 2. DETAIL SHOWS TYPICAL SPACE DIMENSIONS. SEE PLAN FOR SPACE LOCATIONS.



PLAN

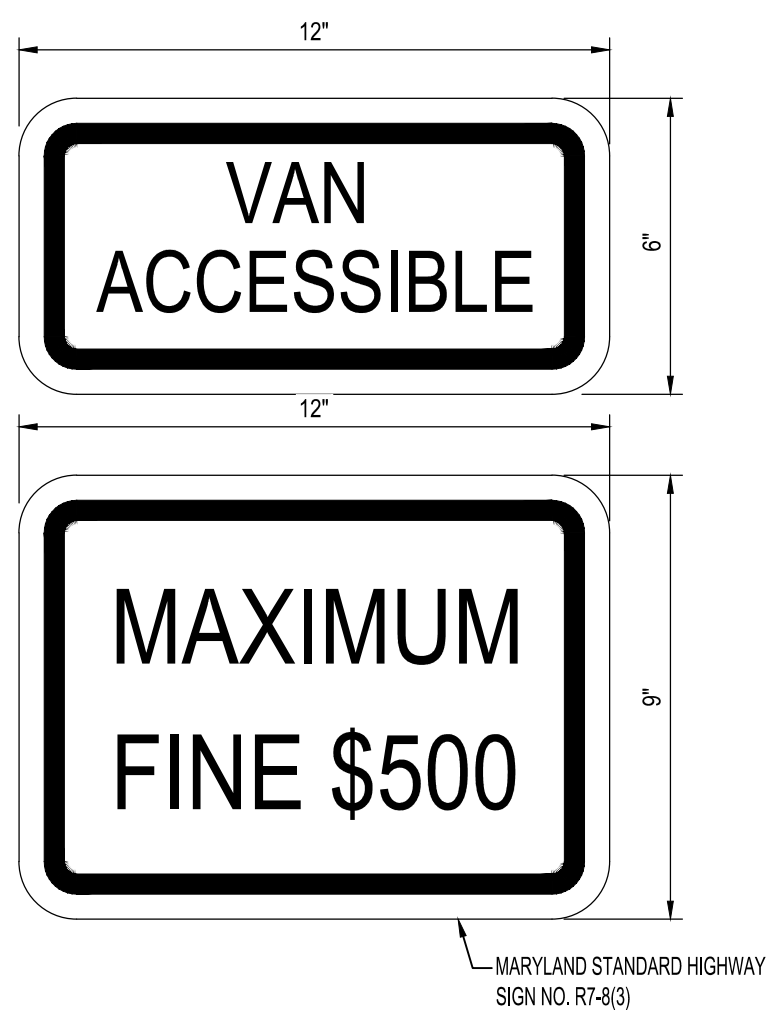
7 ADA ACCESSIBLE PARKING STRIPING
NOT TO SCALE

- NOTES:
1. PAINT TO BE WHITE TRAFFIC PAINT APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. TWO (2) COATS REQUIRED.
 2. SEE PLAN TO DETERMINE IF MULTIPLE HANDICAP SPACES ARE REQUIRED.
 3. HANDICAPPED SYMBOL TO BE WHITE TRAFFIC PAINT ON BLUE TRAFFIC PAINT BACKGROUND APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. TWO (2) COATS REQUIRED.

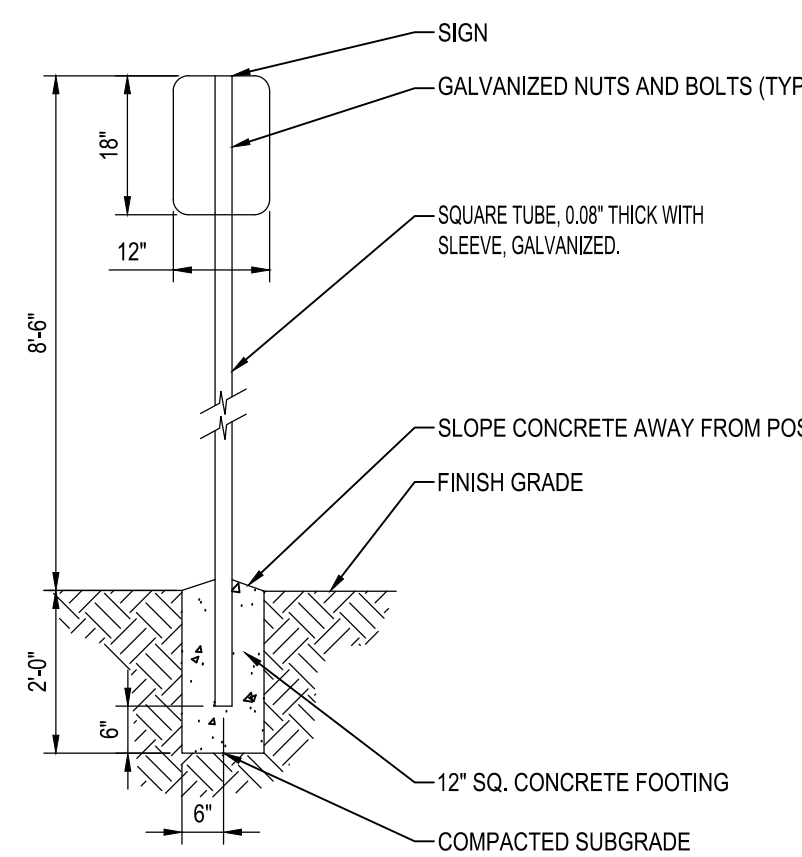


ENLARGEMENT

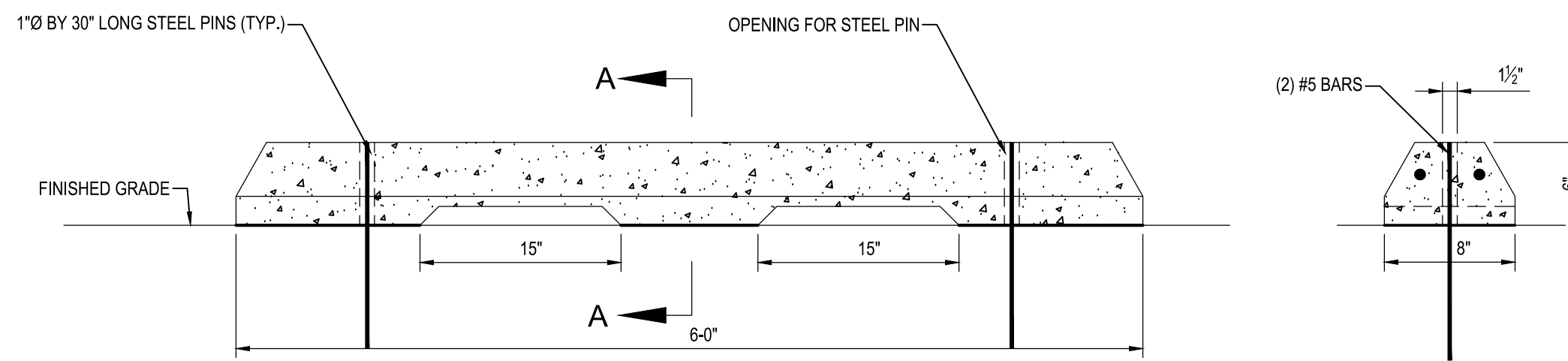
8 ADA ACCESSIBLE PARKING SIGN
NOT TO SCALE



ENLARGEMENT



SECTION

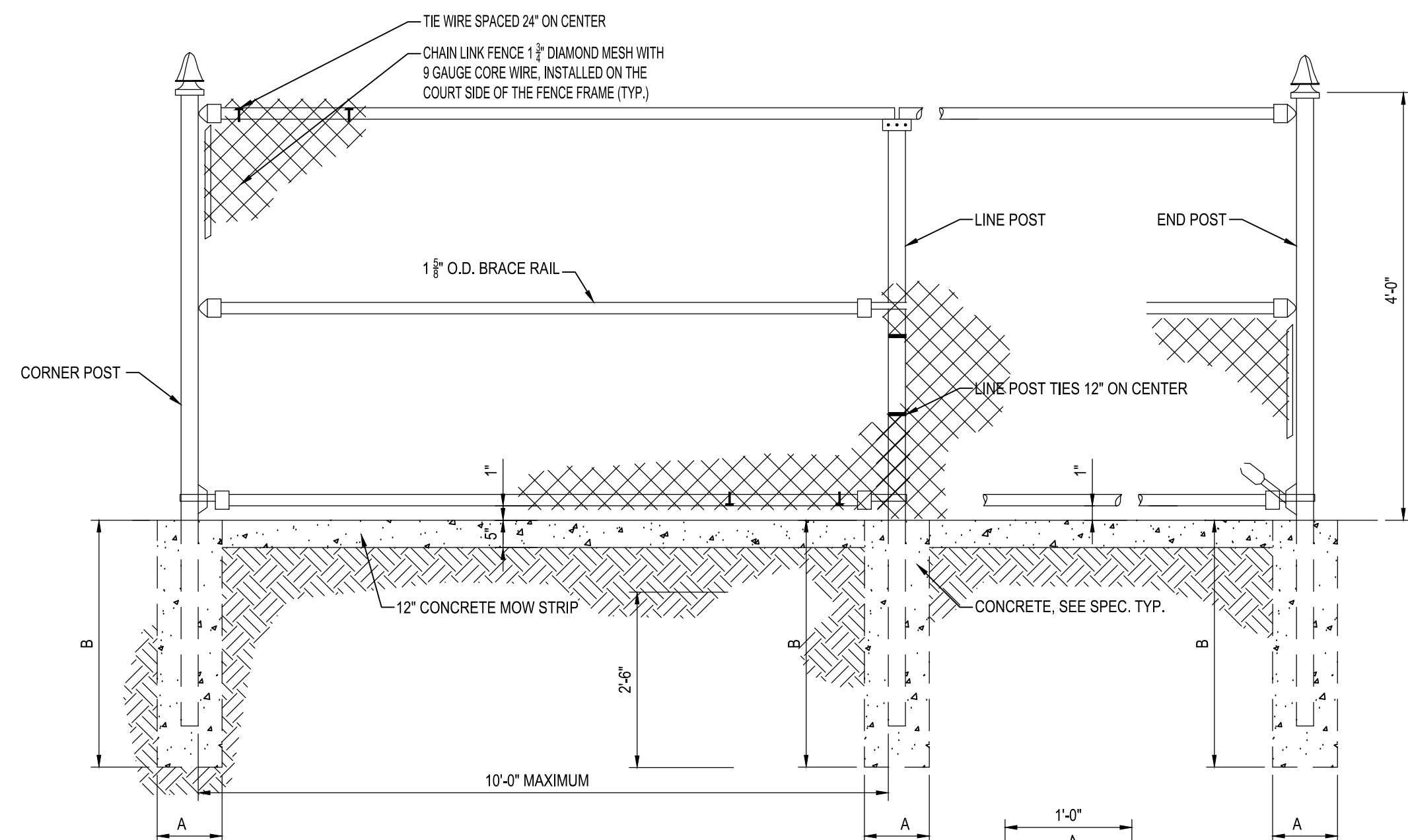


ELEVATION

9 CONCRETE WHEELSTOP
SCALE: 1" = 1'-0"

P:\2017\17141805\Drawings\07-Site\17141805-C203-Site Details.dwg Feb. 08, 2023 8:10am Plot By: remith

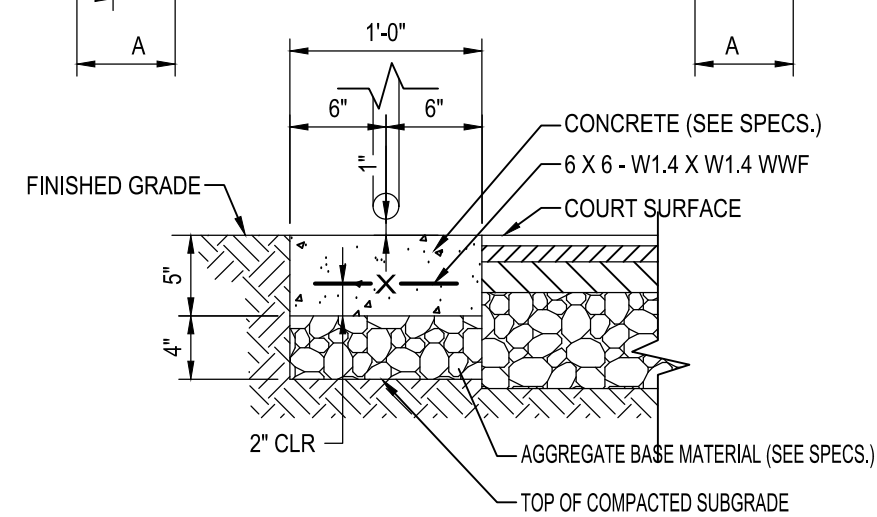
<p>WHITNEY BAILEY COX & MAGNANI, LLC 300 East Joppa Road, Suite 200 Baltimore, MD 21286 410.512.4500 www.wbcm.com</p> <p>WBCM Designing Infrastructure for Tomorrow®</p> <p>I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License #27734 Expiration Date: 07/12/2024</p>		<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>BY</th> <th>DATE</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>				NO.	DESCRIPTION	BY	DATE																	<p>ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS</p> <table border="1"> <thead> <tr> <th>APPROVED</th> <th>DATE</th> <th>APPROVED</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td>CHIEF ENGINEER</td> <td> </td> <td>PROJECT MANAGER</td> <td> </td> </tr> <tr> <td>APPROVED</td> <td>DATE</td> <td>APPROVED</td> <td>DATE</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td>ASSISTANT CHIEF ENGINEER</td> <td> </td> <td>CHIEF, RIGHT-OF-WAY</td> <td> </td> </tr> </tbody> </table>				APPROVED	DATE	APPROVED	DATE					CHIEF ENGINEER		PROJECT MANAGER		APPROVED	DATE	APPROVED	DATE					ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	
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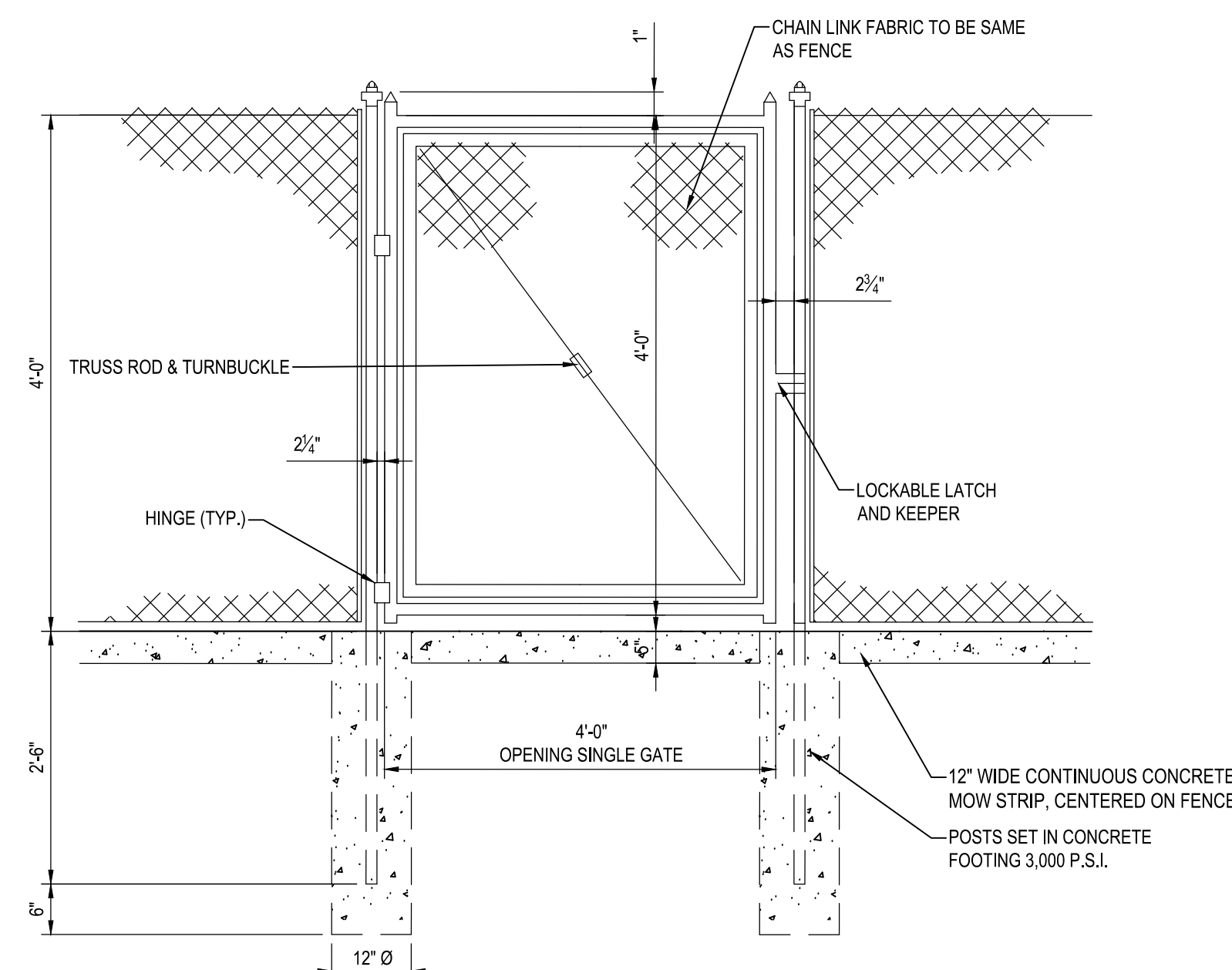
POST TYPE	POST DIA. O. D.	FOOTING	
		A	B
CORNER	4"	2'-0"	3'-6"
LINE	3"	1'-0"	3'-0"
END & GATE	4"	2'-0"	3'-6"

NOTE:
 1. CHAIN LINK FENCE SHALL BE INSTALLED ON THE COURT SIDE OF THE FENCE FRAME.
 2. BRACE RAILS SHALL ONLY BE INSTALLED AT CORNER POSTS AND FENCE SECTIONS NEXT TO GATES

SECTION

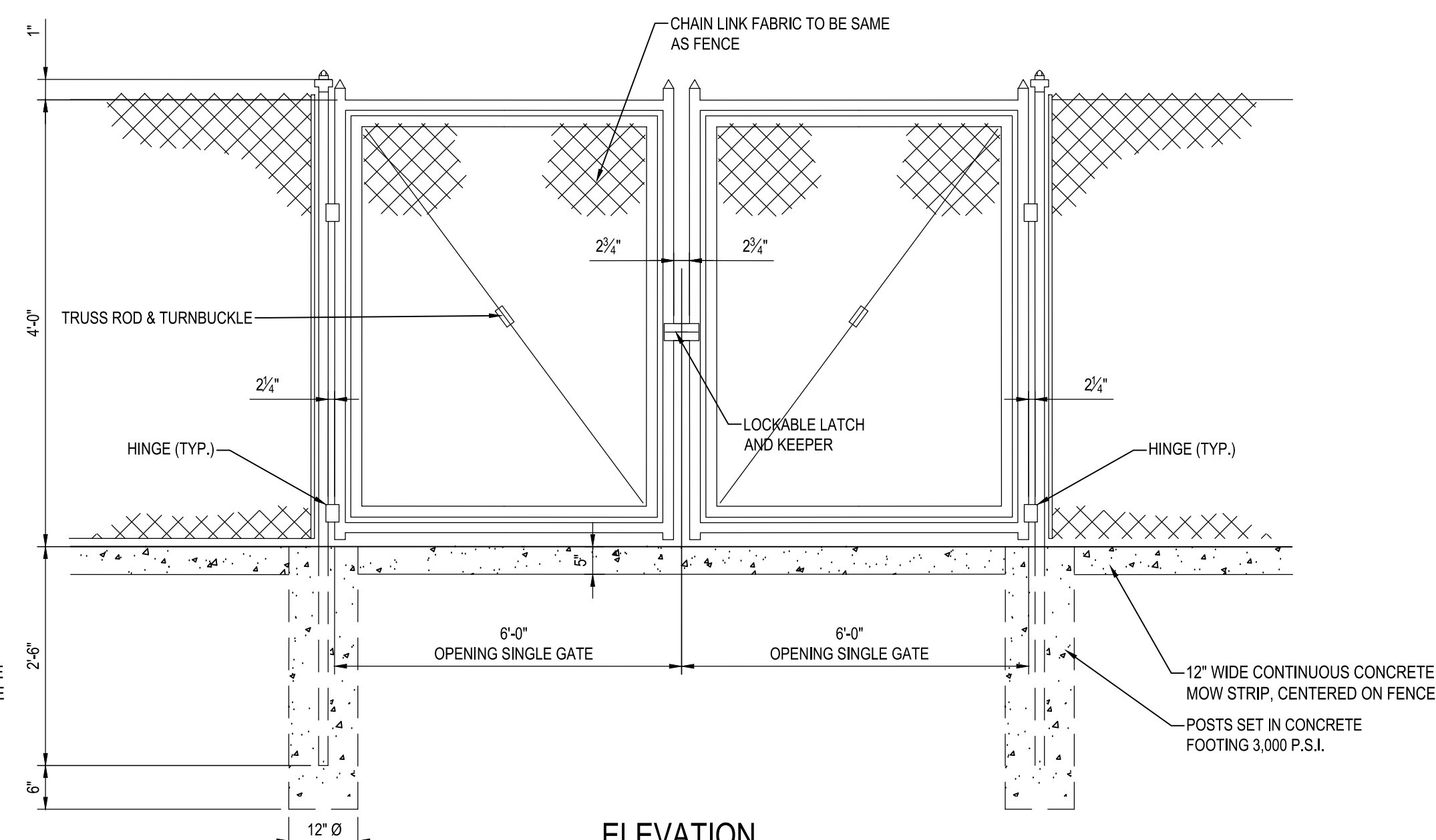


CONCRETE MOW STRIP



ELEVATION

11 4' HIGH SINGLE GATE
NOT TO SCALE

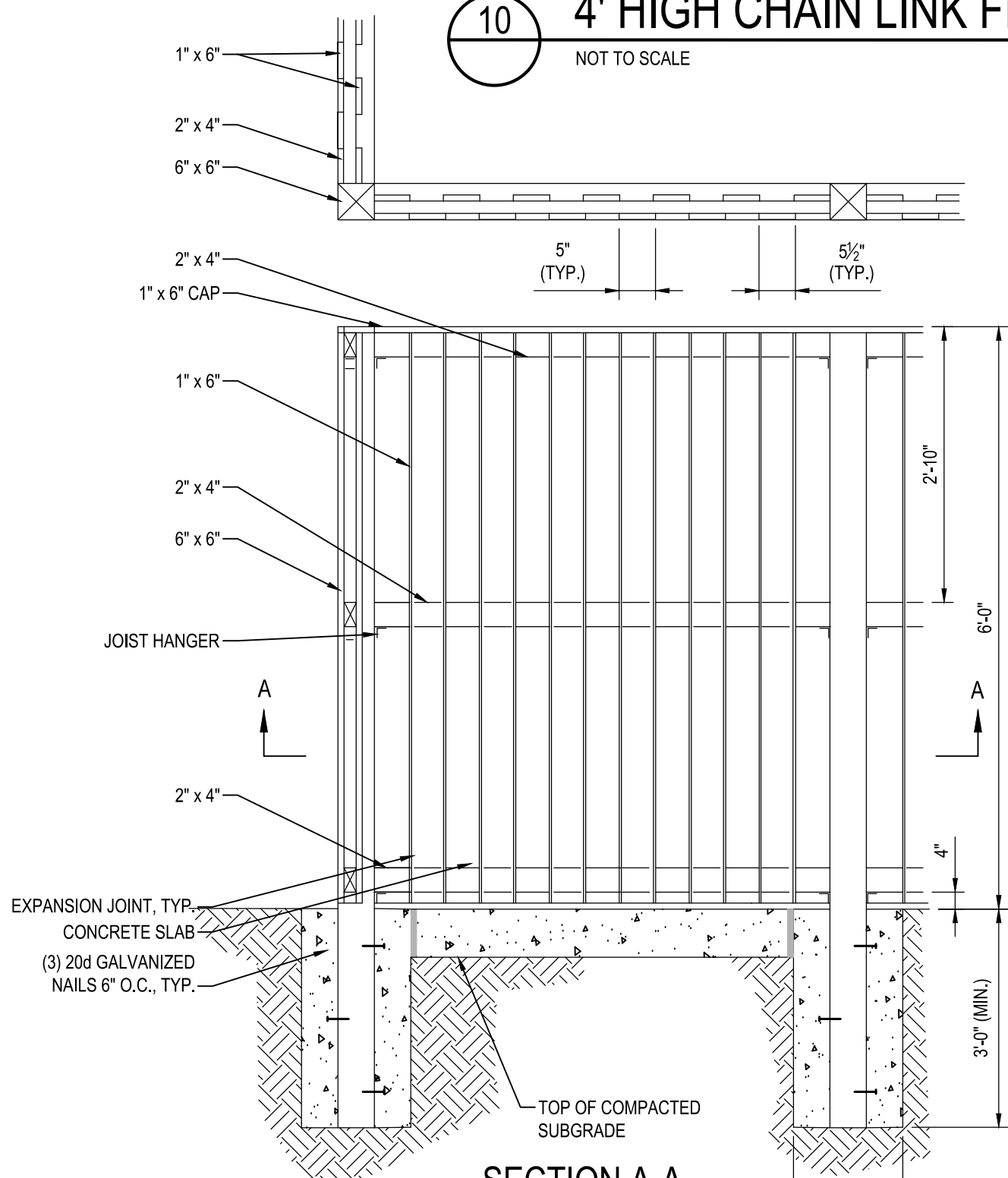


ELEVATION

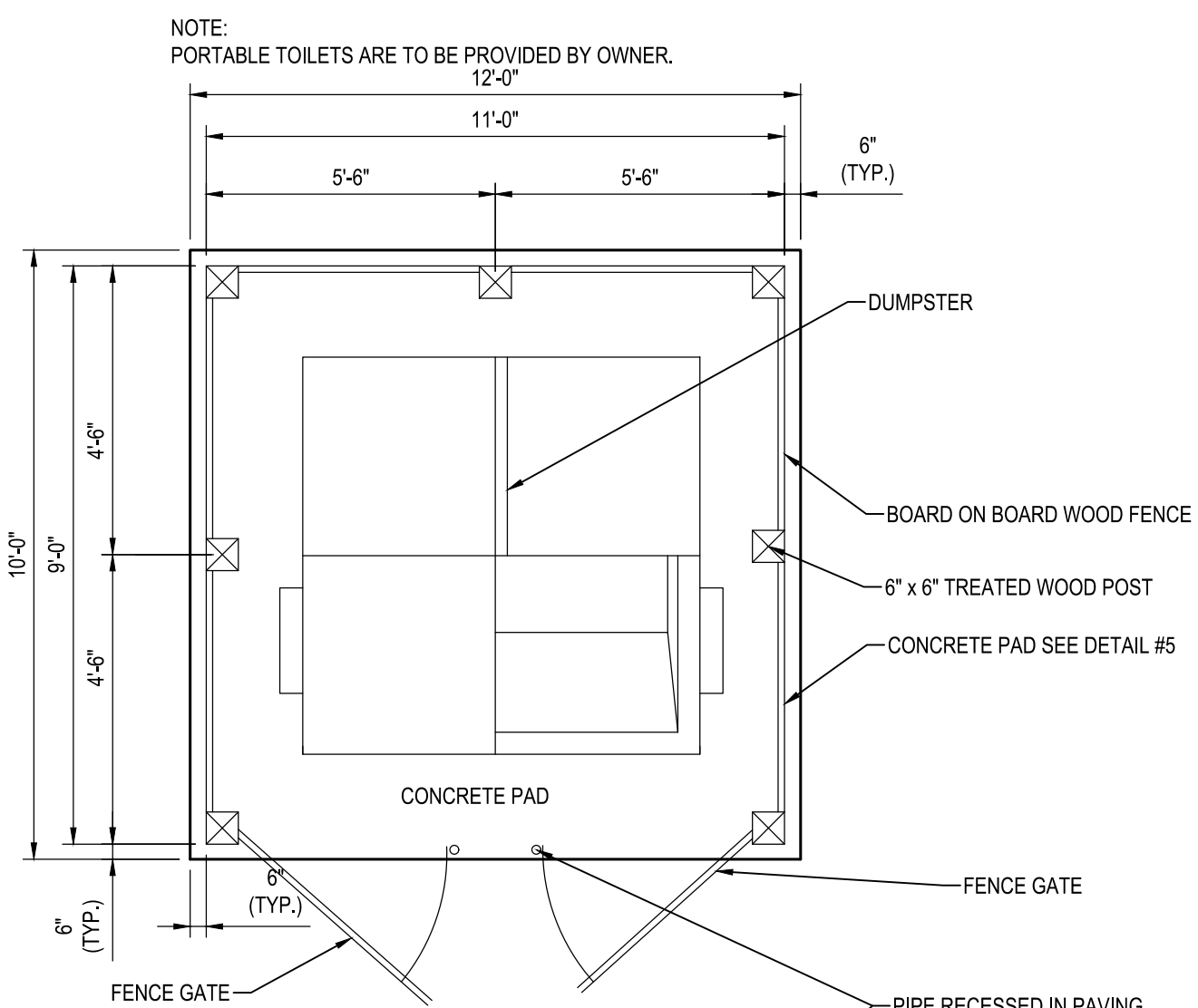
NOTE:
 1. ALL FENCING COMPONENTS INCLUDING; FRAMES, GATES, POSTS, RAILS, TENSION WIRE, AND FABRIC SHALL BE POLYMER (VINYL) COATED, COLOR: BLACK.

12 12'-0" WIDE DOUBLE GATE
SCALE: 1" = 1'-0"

10 4' HIGH CHAIN LINK FENCING
NOT TO SCALE



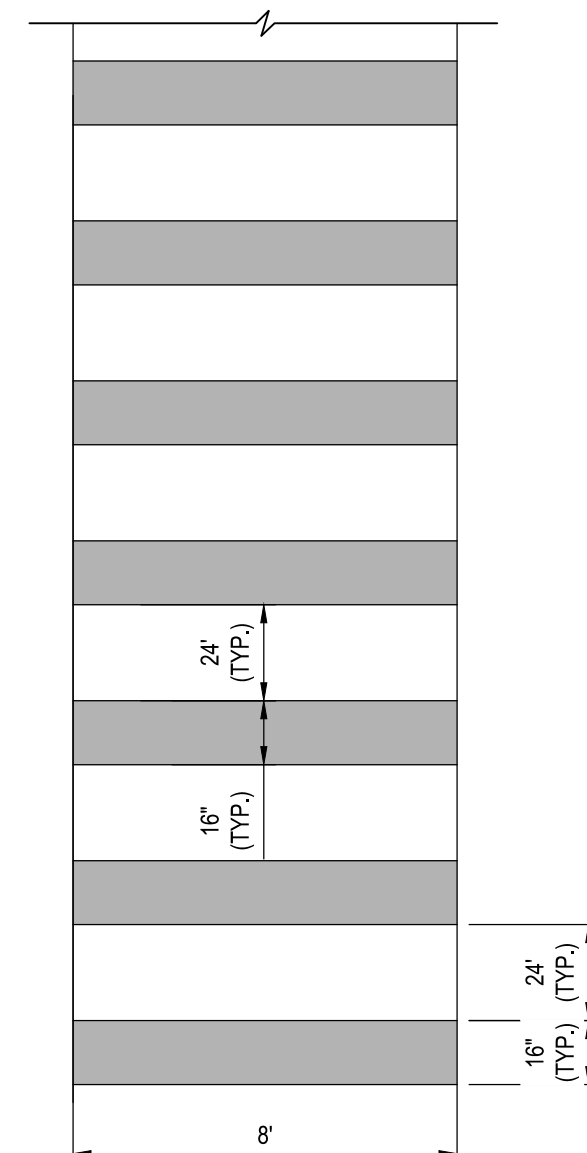
SECTION A-A



DUMPSTER PLAN

NOTES:
 1. ALL 6" x 6" POSTS SHALL BE CCA TREATED SOUTHERN YELLOW PINE, AWPA C1, SMOOTH FINISH.
 2. ALL WOOD OTHER THAN POSTS SHALL BE WESTERN RED CEDAR, NLGA 204B. ALL EXTERIOR FACE BOARDS SHALL HAVE A SMOOTH FINISH.
 3. ALL HARDWARE SHALL BE GALVANIZED COATED.
 4. ALL EXPOSED HARDWARE SHALL HAVE A BLACK FINISH.

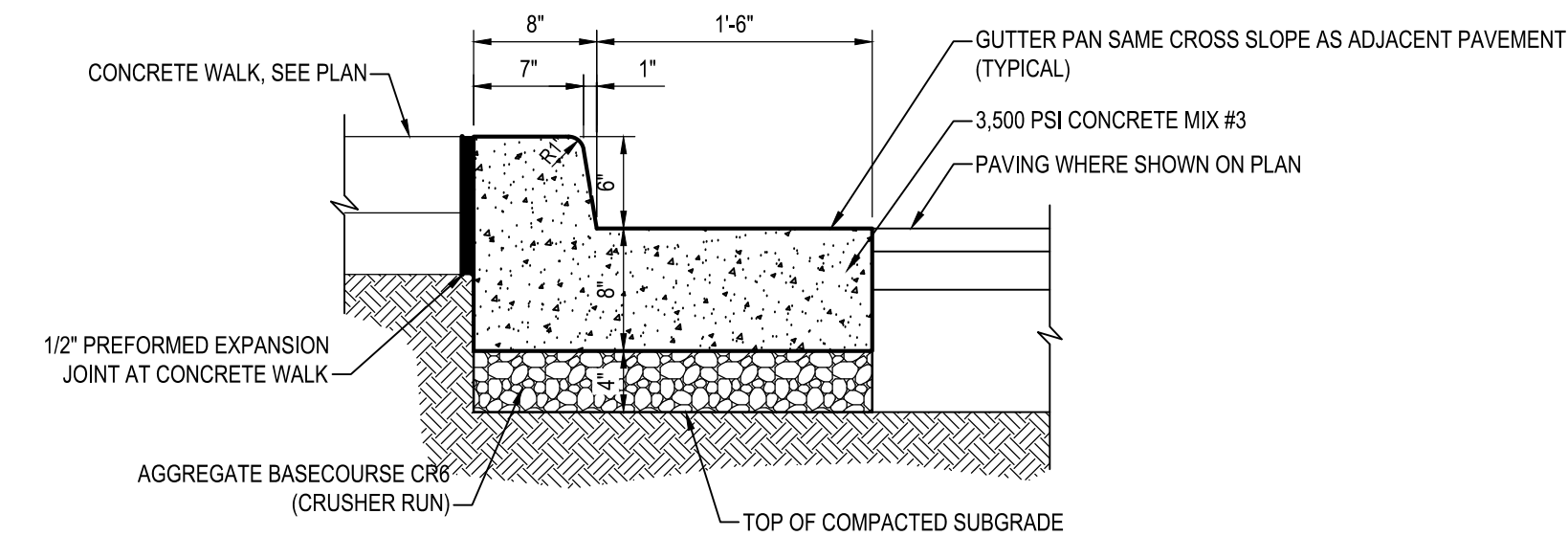
13 DUMPSTER PAD WITH WOODEN ENCLOSURE
NOT TO SCALE



PLAN

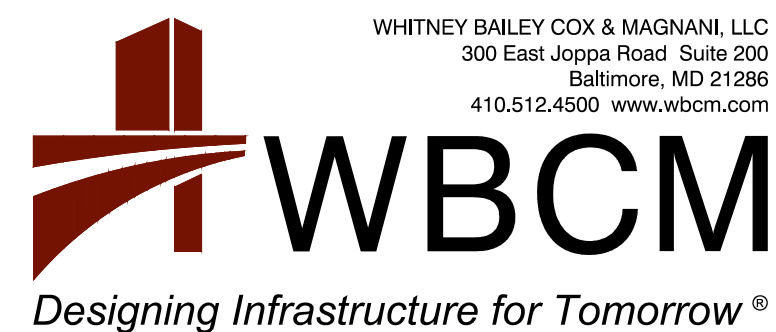
14 CROSS WALK STRIPING
SCALE: 1" = 1'-0"

NOTES:
 1. ALL STRIPING SHALL CONFORM TO THE LATEST EDITION OF THE MD/MTCD.
 2. PAINT IS TO BE WHITE THERMOPLASTIC PAINT APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS (TWO (2) COATS REQUIRED).



SECTION

15 SHA TYPE 'A' CONCRETE CURB AND GUTTER
SCALE: 1" = 1'-0"

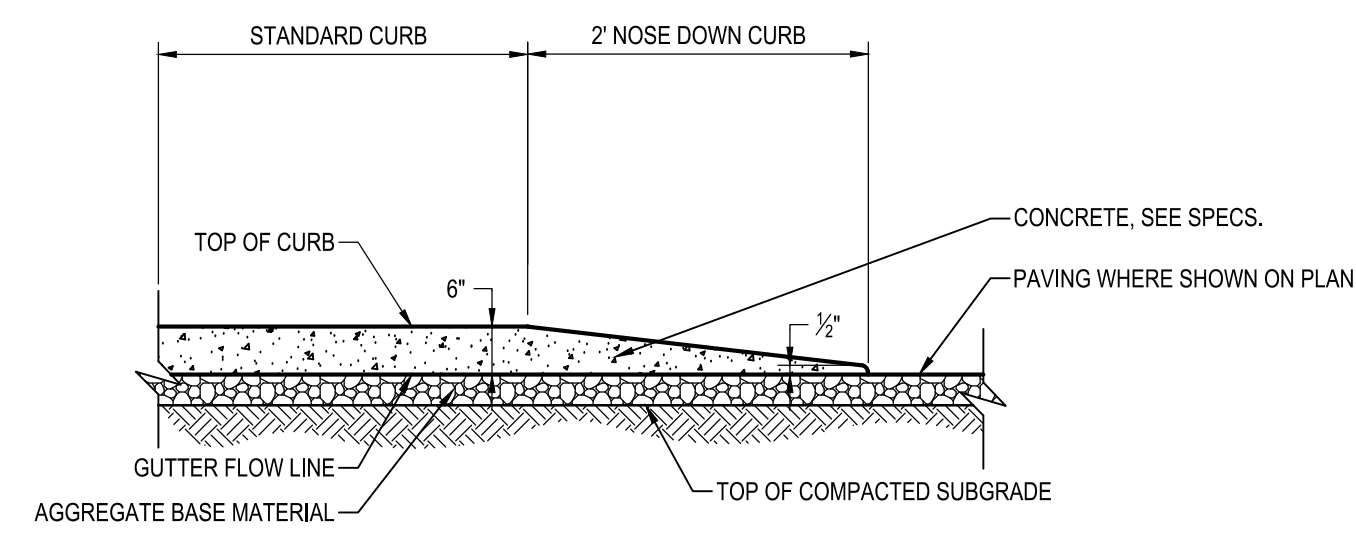


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 300 East Joppa Road, Suite 200
 Baltimore, MD 21286
 410.512.4500 www.wbcm.com

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 License #27734 Expiration Date: 07/12/2024

REVISIONS			
NO.	DESCRIPTION	BY	DATE

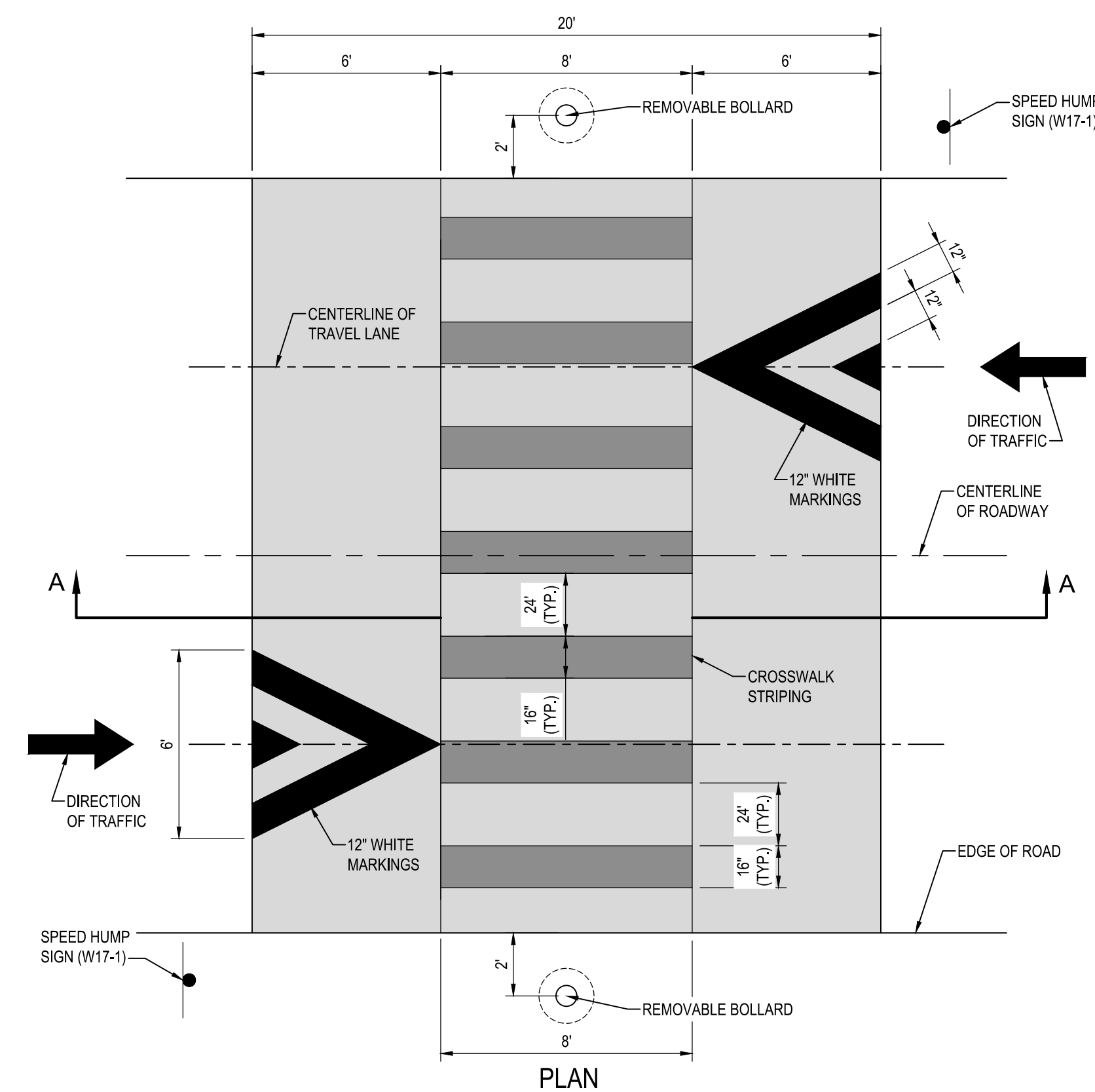
ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	
SCALE: AS SHOWN	DRAWN BY: R.S.S.	CHECKED BY: R.W.H.	SHEET NO. 09 OF 34
PROJECT NO.: P582001	CONTRACT NO.: P582001	DEALE COMMUNITY PARK	
		SITE DETAILS	



SECTION

16 2'-0" NOSE DOWN CONCRETE CURB

SCALE: 1" = 1'-0"

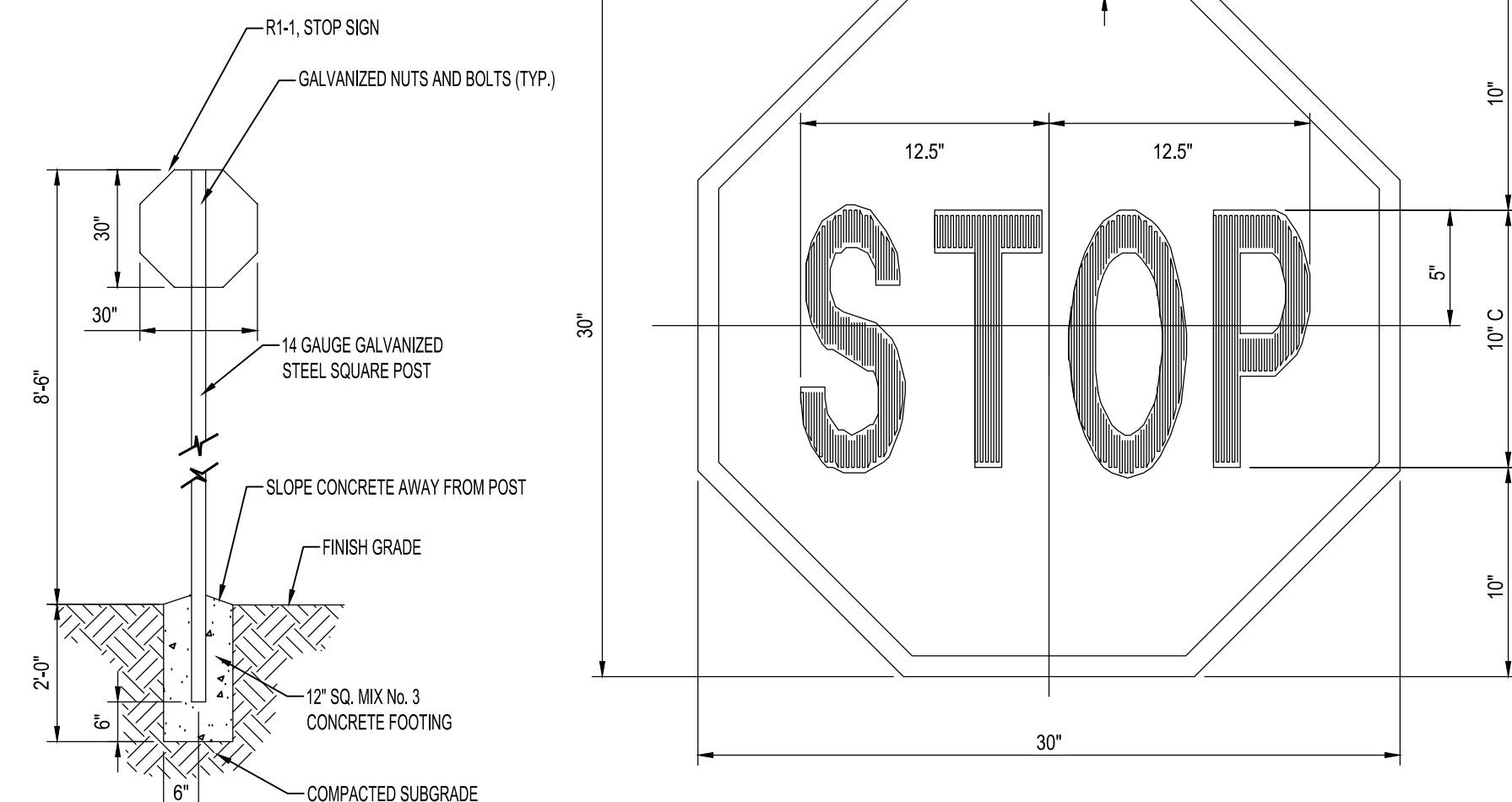


SECTION A-A
1 VERT. = 2 HORZ.

- NOTES:
1. ALL SIGNING AND STRIPING SHALL CONFORM TO THE LATEST EDITION OF THE MDMUTC.
 2. PAINT IS TO BE WHITE THERMOPLASTIC PAINT APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS (TWO (2) COATS REQUIRED).

19 RAISED CROSSWALK WITH REMOVABLE BOLLARD

SCALE: 1/4"=1'

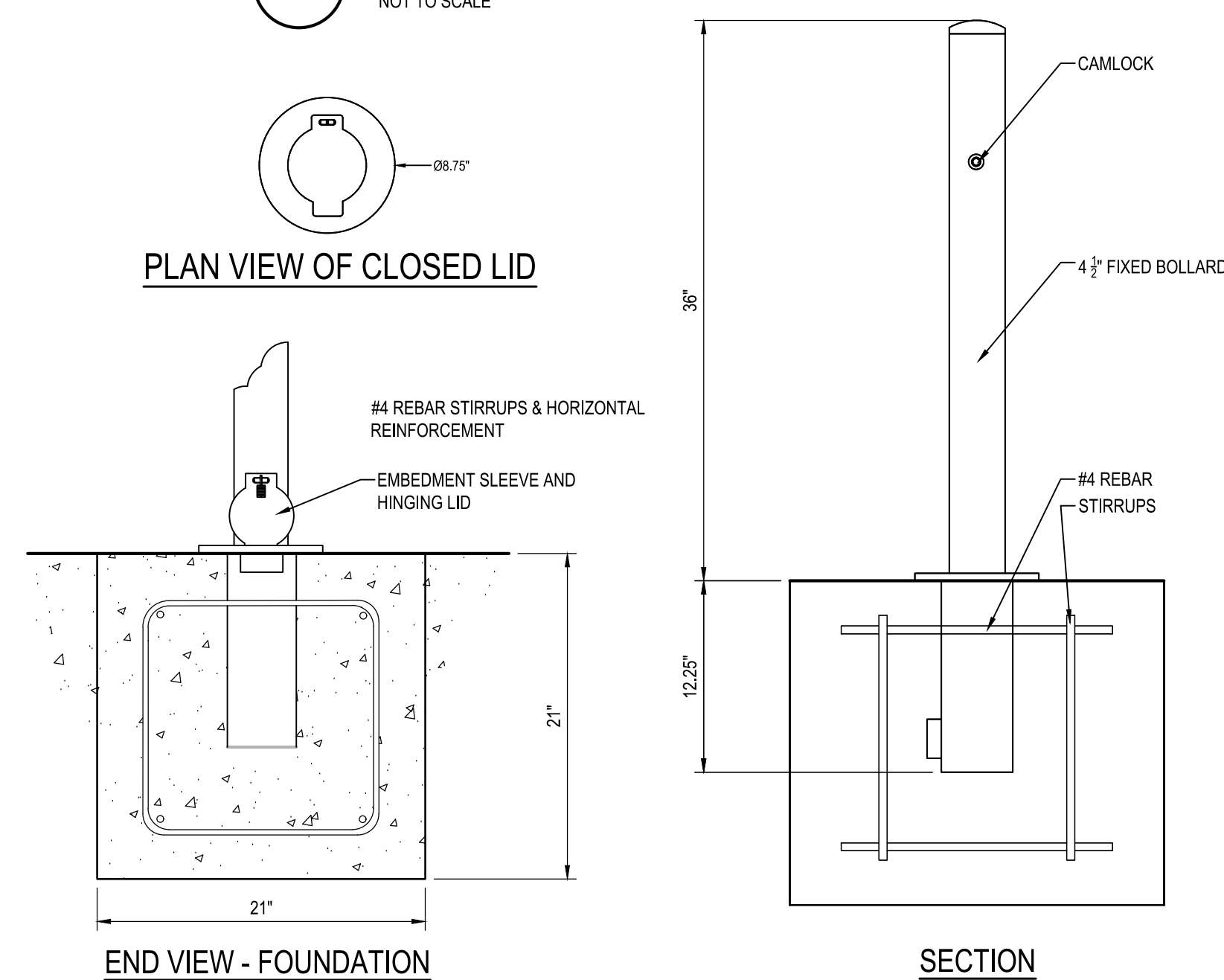


ELEVATION

ENLARGEMENT

17 30" STOP SIGN (R1-1)

NOT TO SCALE

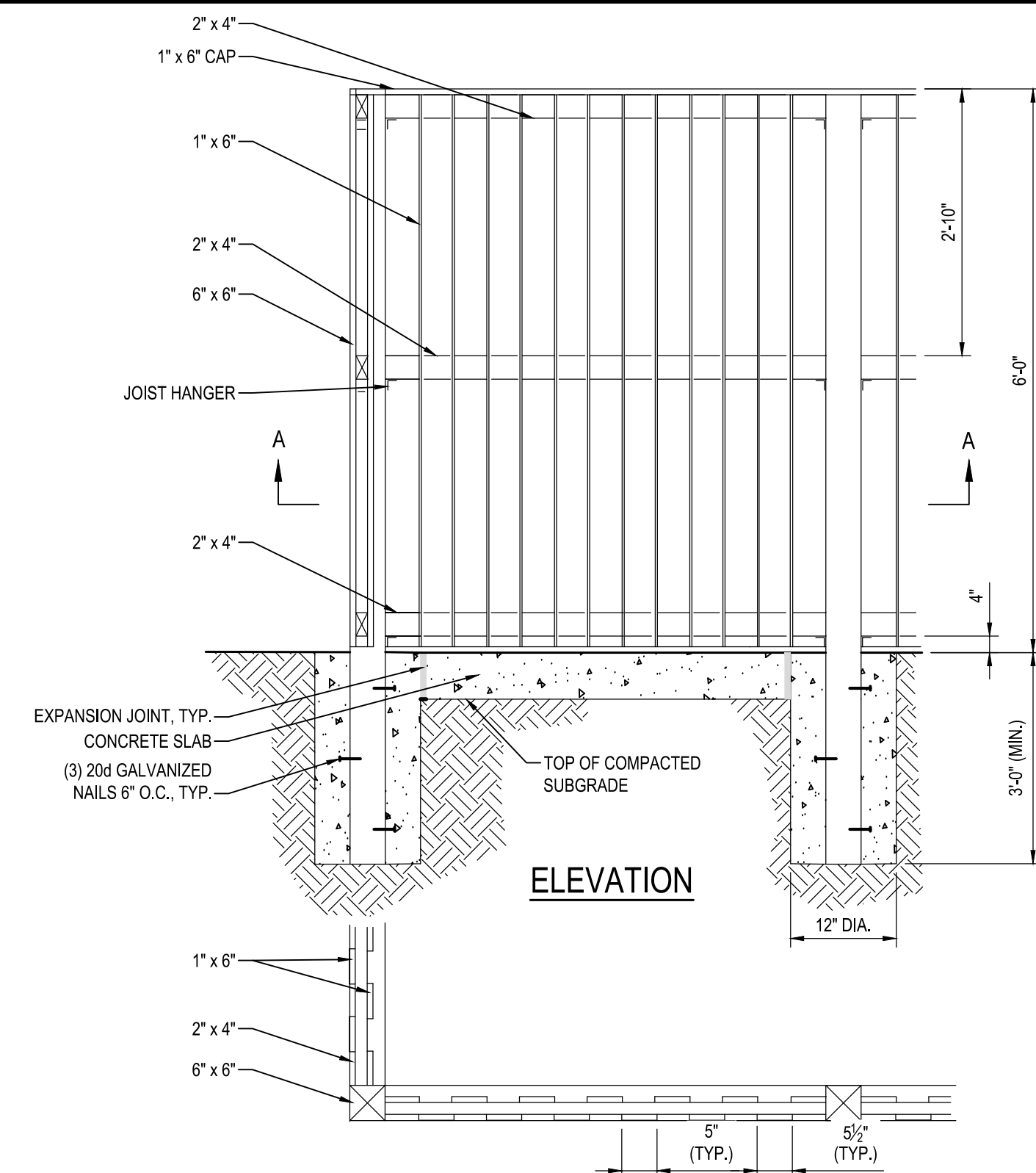


PLAN VIEW OF CLOSED LID

END VIEW - FOUNDATION

REMOVABLE PIPE BOLLARD

SECTION

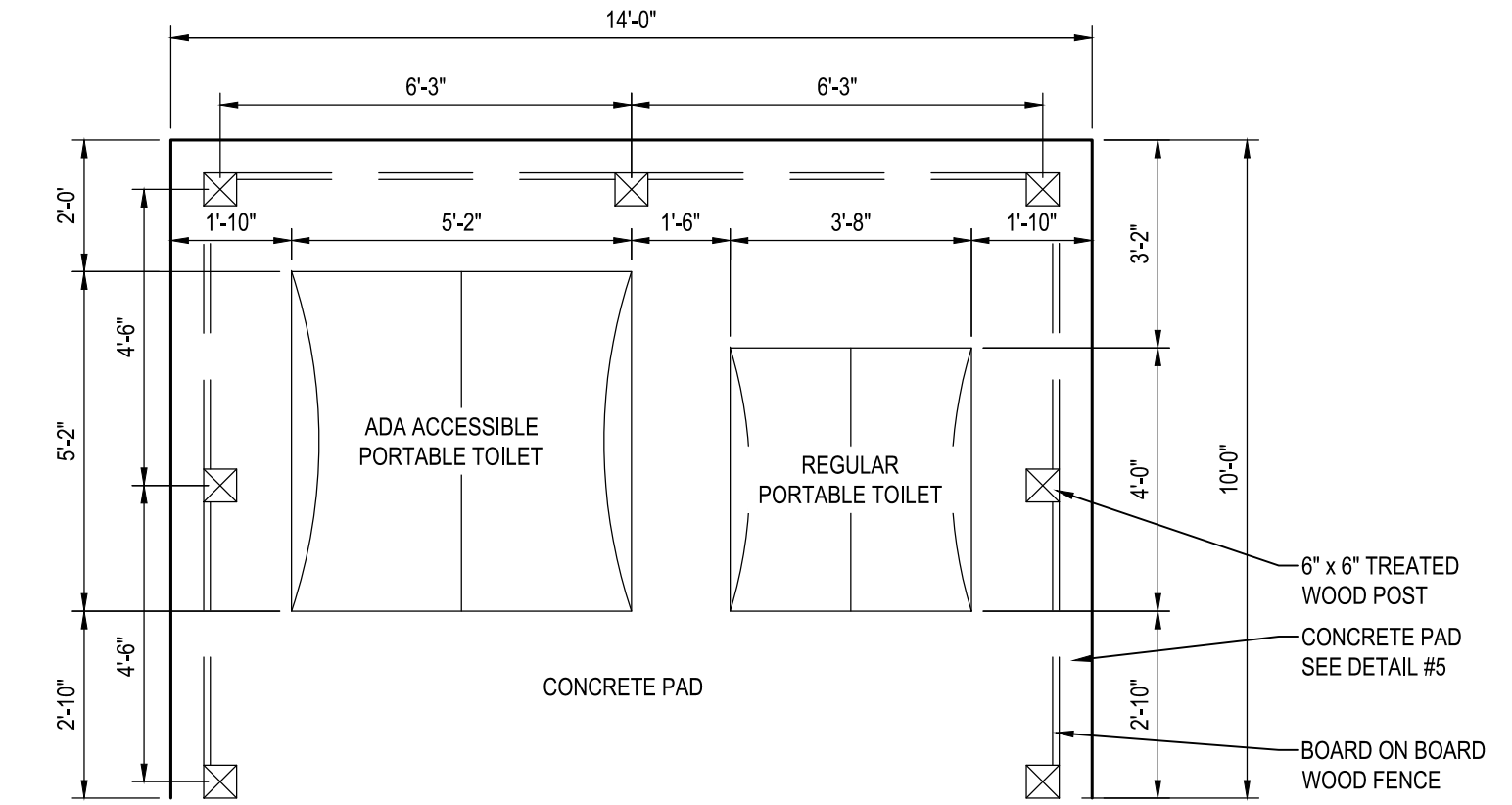


SECTION A-A

18 PORTABLE TOILETS (PROVIDED BY OWNERS) WITH WOODEN ENCLOSURE

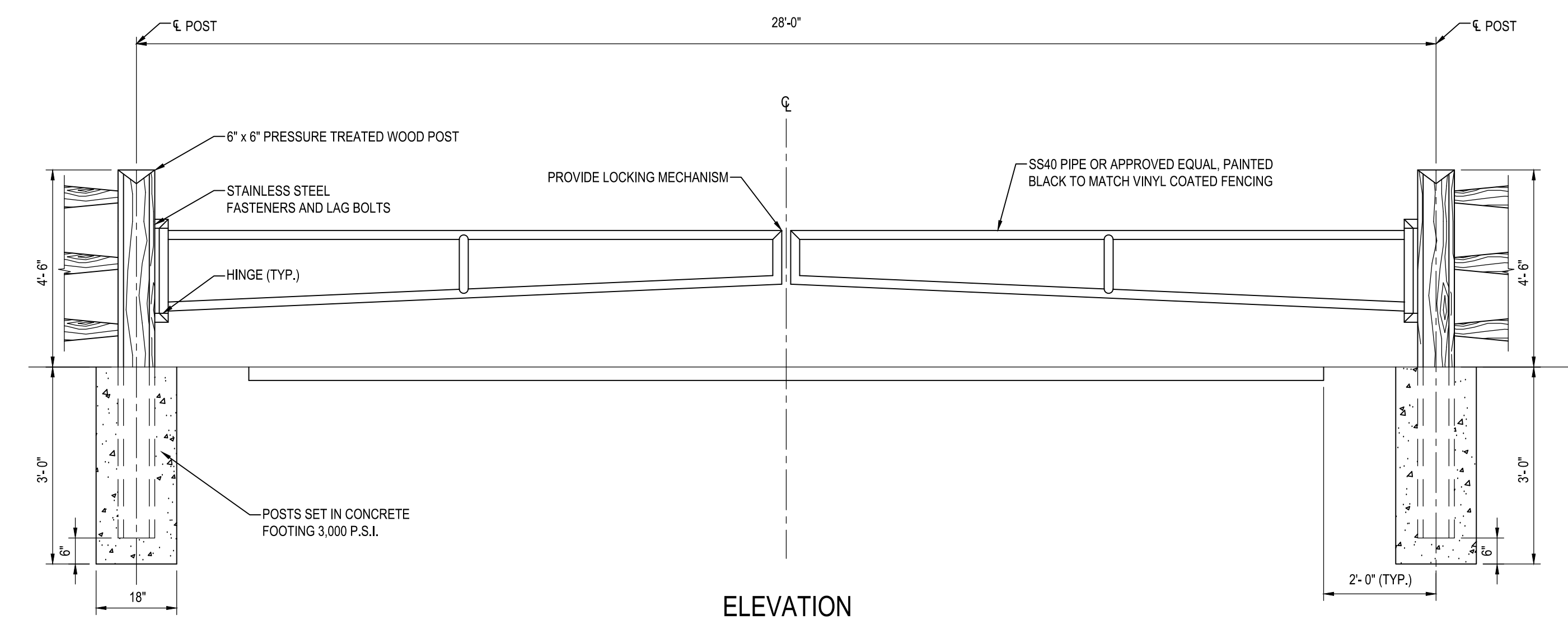
NOT TO SCALE

- NOTES:
1. ALL 6" x 6" POSTS SHALL BE CCA TREATED SOUTHERN YELLOW PINE, AWPA C1, SMOOTH FINISH.
 2. ALL WOOD OTHER THAN POSTS SHALL BE WESTERN RED CEDAR, NLGA 204B, ALL EXTERIOR FACE BOARDS SHALL HAVE A SMOOTH FINISH.
 3. ALL HARDWARE SHALL BE GALVANIZED COATED.
 4. ALL EXPOSED HARDWARE SHALL HAVE A BLACK FINISH.



PORTABLE TOILETS PLAN

NOTE:
PORTABLE TOILETS ARE TO BE PROVIDED BY OWNER.



ELEVATION

20 MANUAL DUAL SWING ARM GATE

NOT TO SCALE



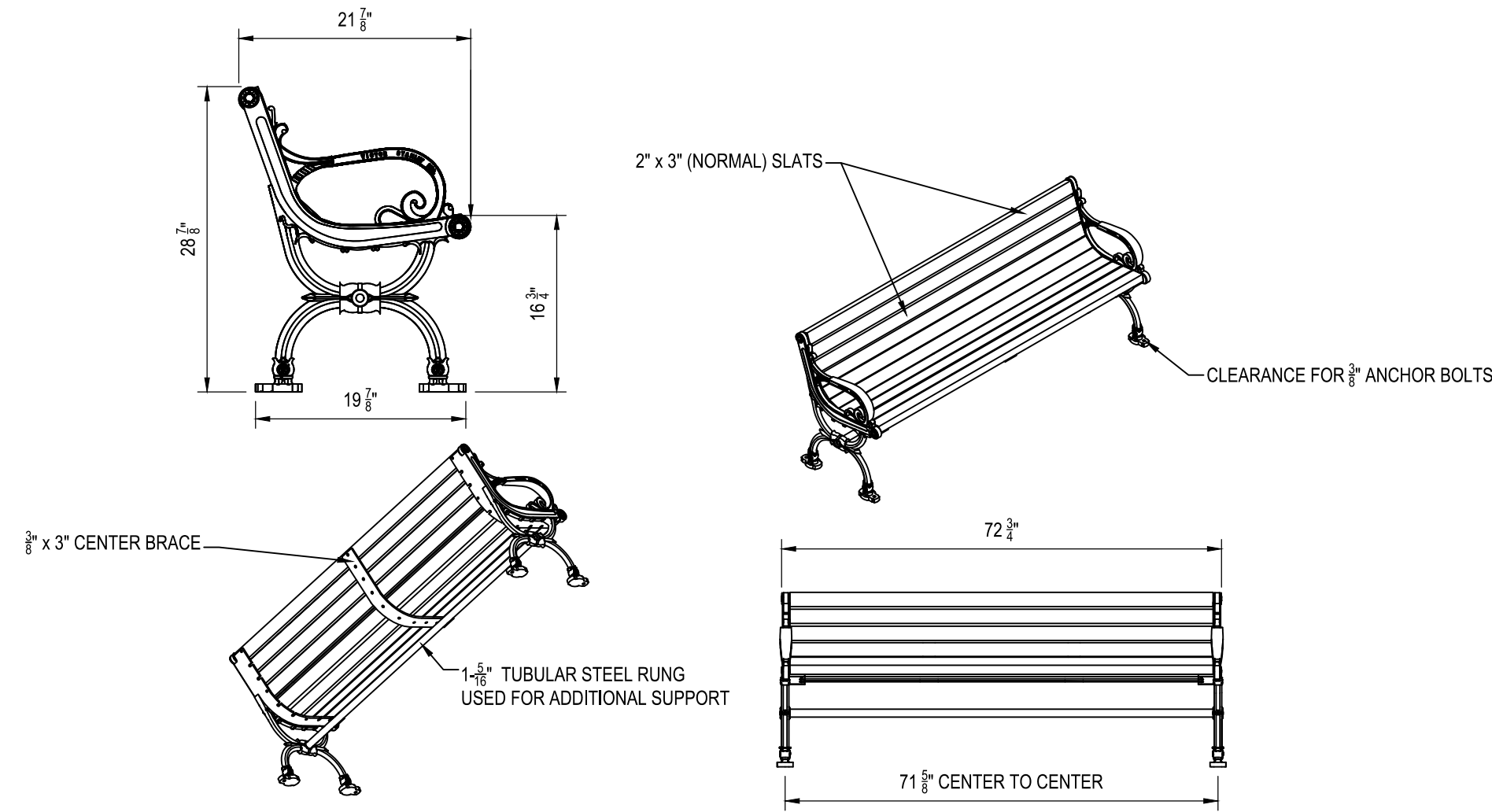
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #27734 Expiration Date: 07/12/2024

REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	
SCALE: AS SHOWN		DRAWN BY: R.S.S.	
CHECKED BY: R.W.H.		SHEET NO. 10 OF 34	
PROJECT NO.: P582001		CONTRACT NO.: P582001	

DEALE COMMUNITY PARK

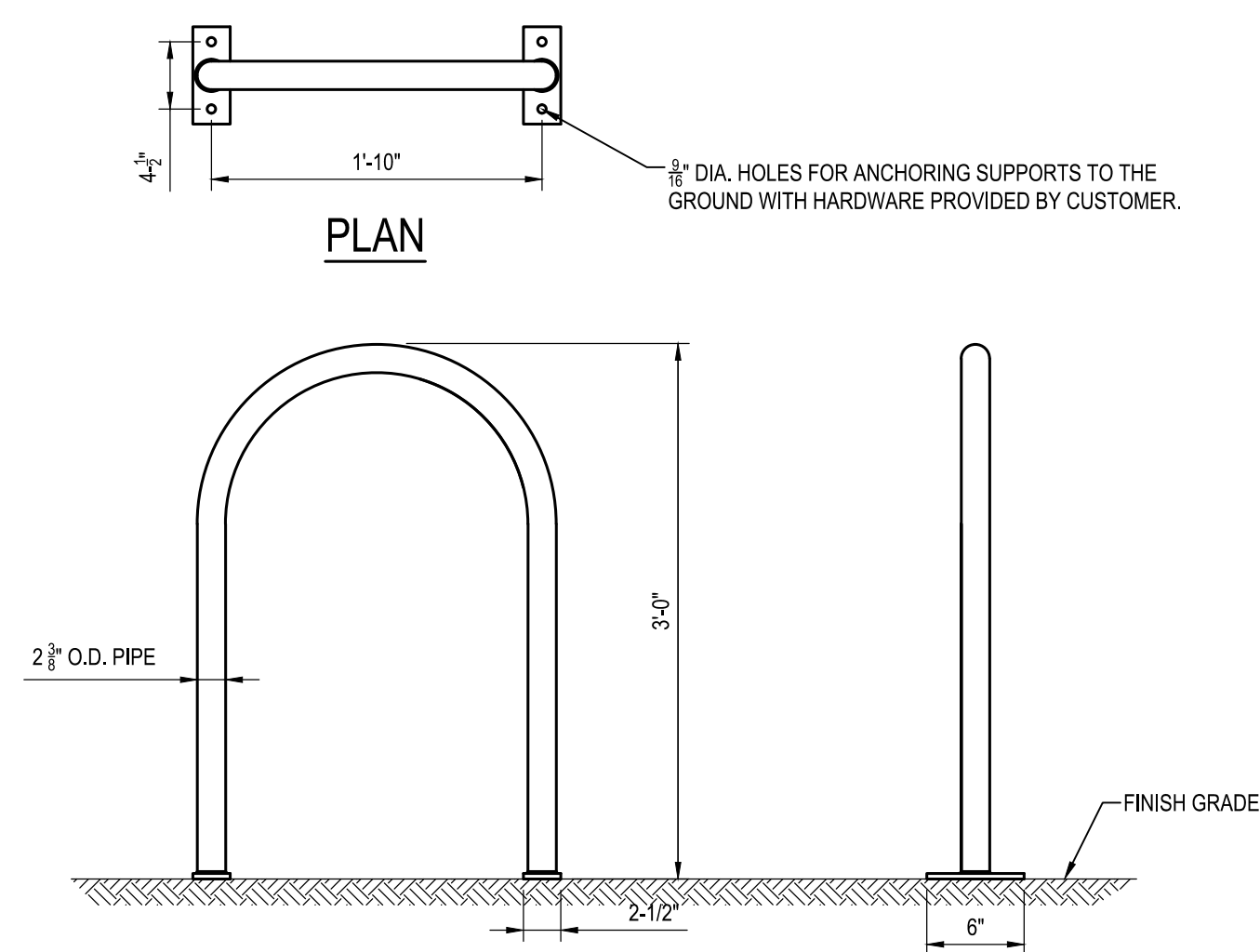
SITE DETAILS



SLAT TYPES
WOOD: PHILIPPINE MAHOGANY AND IPE
COLORS: GRAY, MAPLE, CHERRY, AND WALNUT (NOT AVAILABLE IN 8-FOOT LENGTHS)
MANUFACTURE: VICTOR STANLEY, CLASSIC SERIES

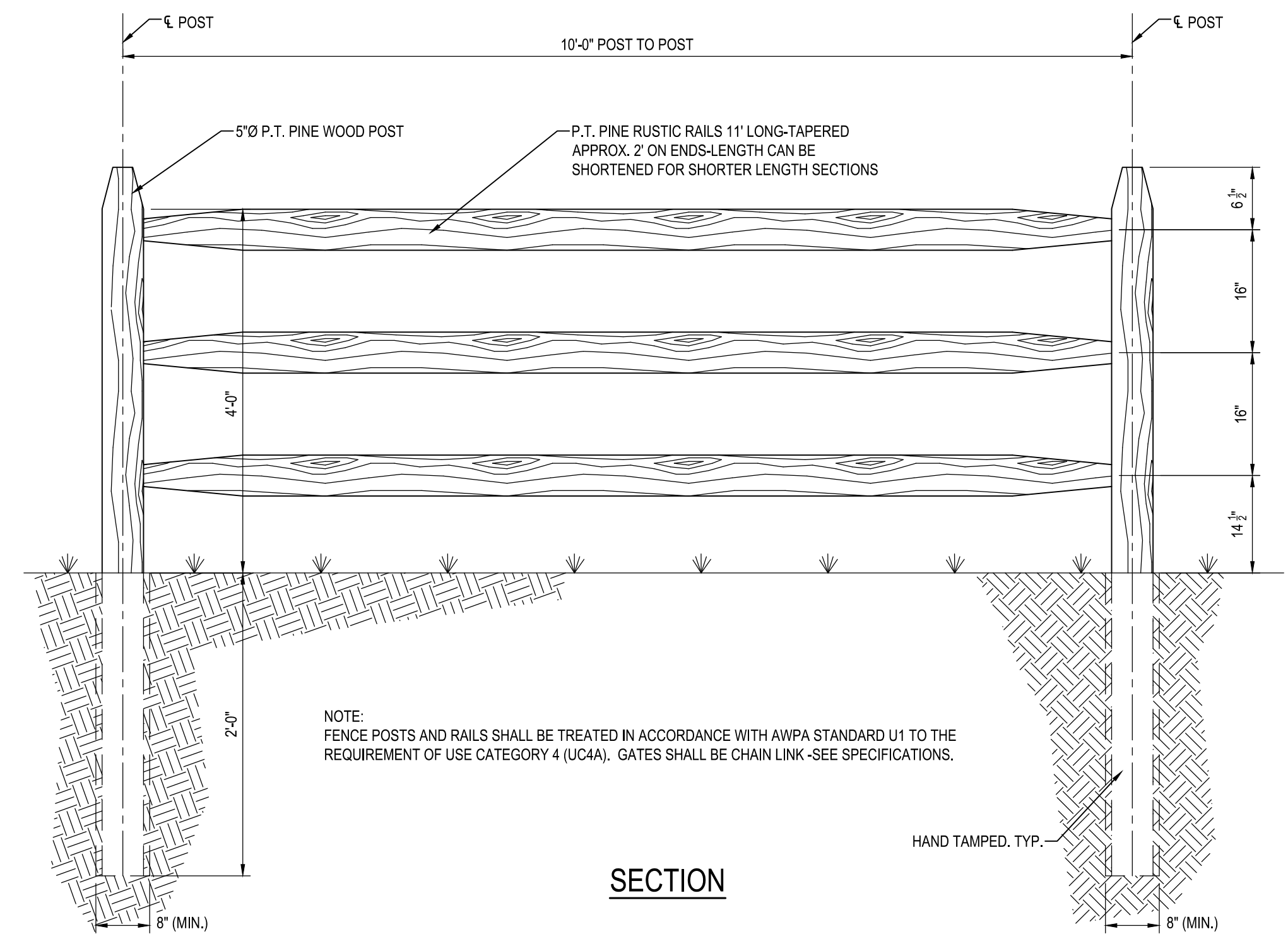
NOTES:
1. DUCTILE IRON CASTINGS COME WITH A TEN YEAR WARRANTY AGAINST BREAKAGE.
2. ALL FABRICATED METAL COMPONENTS ARE STEEL SHOTBLASTED, ETCHED, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH T.G.I.C. POLYESTER POWDER COATINGS. PRODUCTS ARE FULLY CLEANED AND PRETREATED, PREHEATED AND COATED WHILE HOT TO FILL CREVICES AND BUILD COATING FILM. COATED PARTS ARE THEN FULLY CURED TO COATING MANUFACTURERS SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH AVERAGES 8-10 MILS (200-250 MICRONS).
3. IT IS NOT RECOMMENDED TO LOCATE ANCHOR BOLTS UNTIL BENCH IS IN PLACE. THIS VICTOR STANLEY, INC. PRODUCT MUST BE PERMANENTLY AFFIXED TO THE GROUND. CONSULT YOUR LOCAL CODES FOR REGULATIONS.
4. ANCHOR BOLTS NOT PROVIDED BY VICTOR STANLEY, INC.

21 PARK BENCH ON CONCRETE PAD
NOT TO SCALE

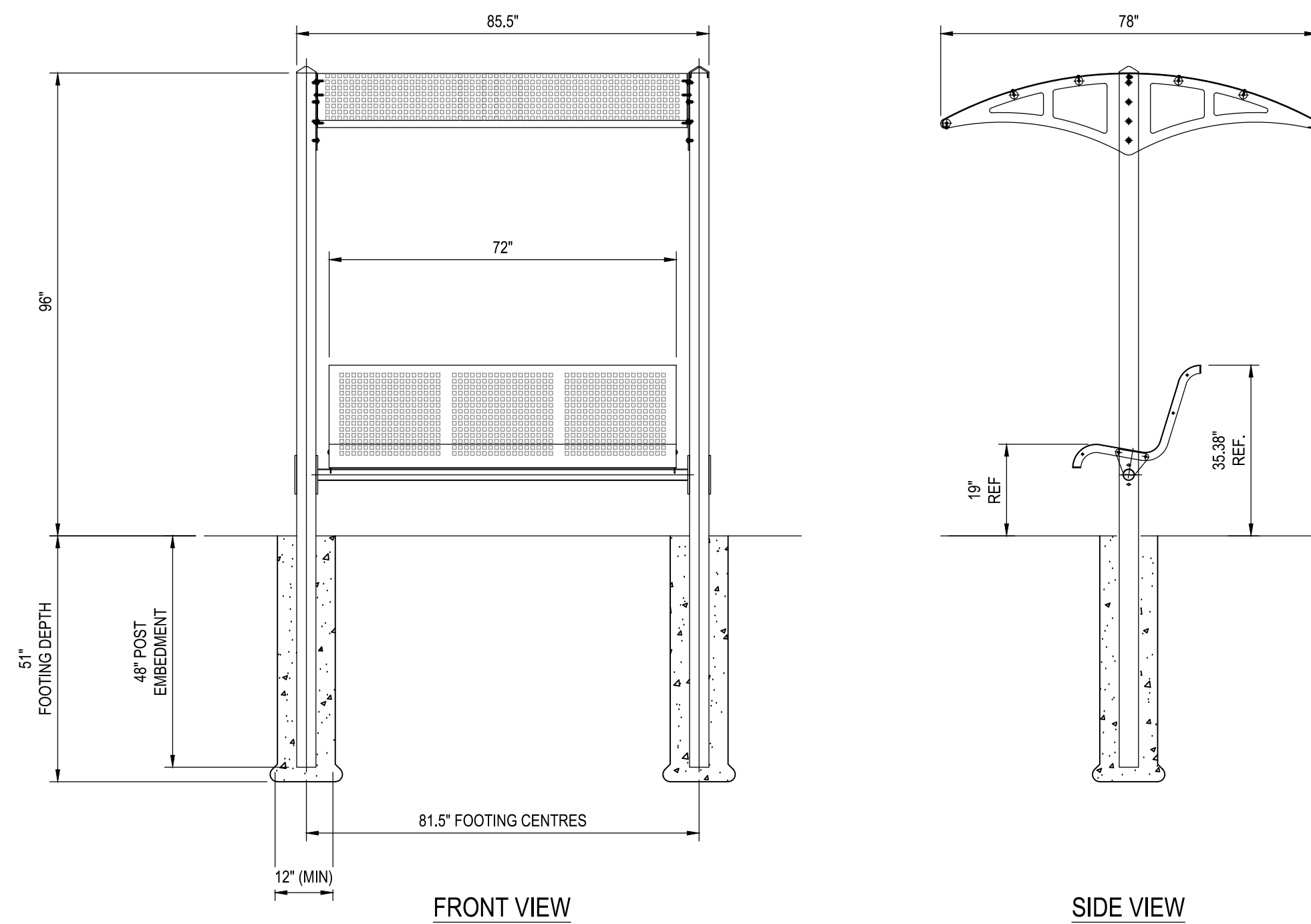


SPECIFICATIONS
DIMENSIONS:
ROUND: 1'-10" W X 3'-0" H
PROFILE: 2 1/2" O.D. PIPE
BICYCLE CAPACITY: 2
MATERIAL: STEEL
MOUNTING: SURFACE MOUNT

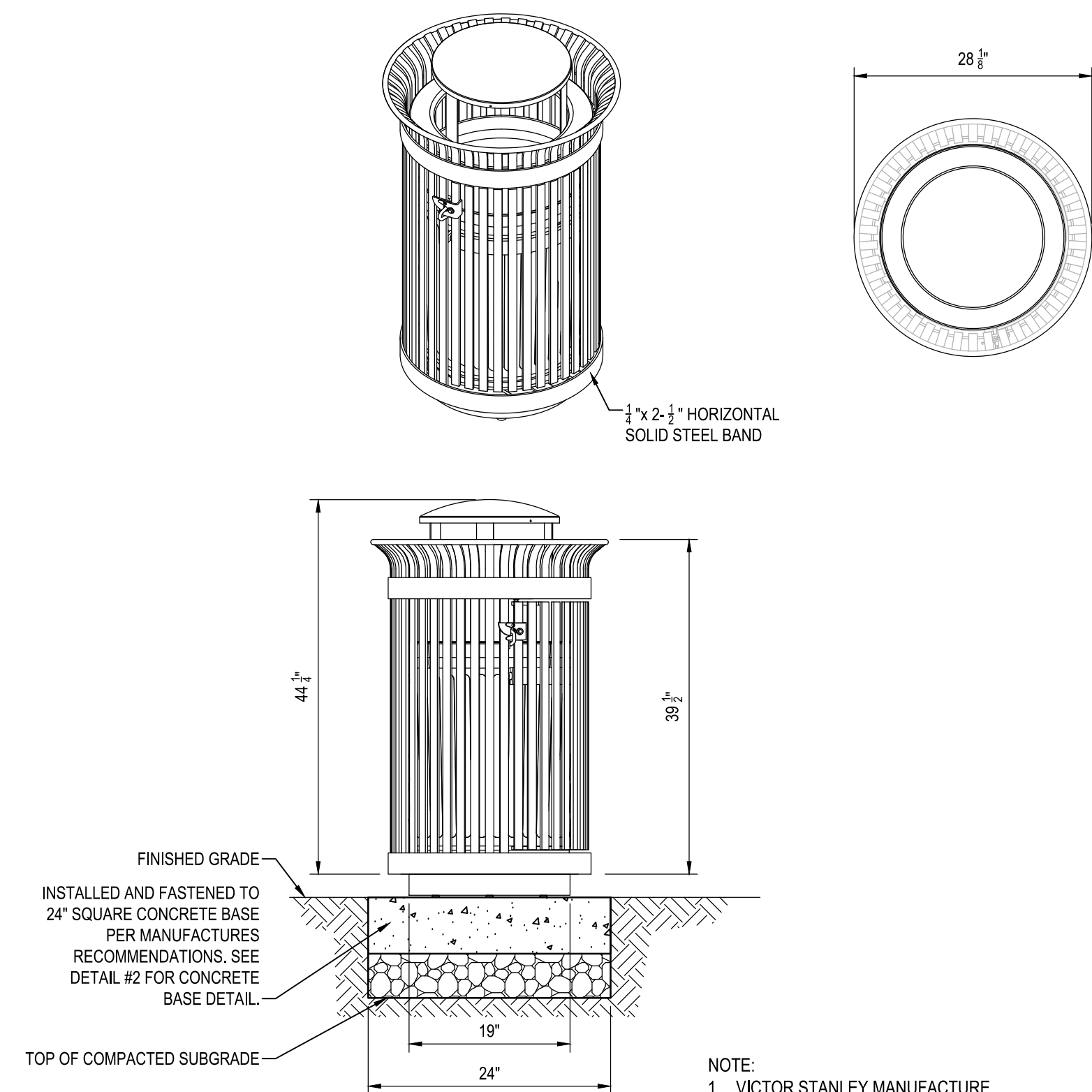
22 BIKE RACK
SCALE: 1" = 1'-0"



23 SPLIT RAIL FENCING
NOT TO SCALE



24 SHADE STRUCTURE WITH BENCH
NOT TO SCALE



AVAILABLE OPTIONS:
POWDER COATING:
10 STANDARD COLORS, 2 OPTIONAL METALLIC COLORS.
CUSTOM COLORS (INCLUDING THE RAL RANGE)
CUSTOM PLAQUES & DECALS AVAILABLE WITH STEEL PLAQUES IN VARIOUS SIZES AND PRESSURE SENSITIVE VINYL OUTDOOR DECALS.

NOTE:
1. VICTOR STANLEY MANUFACTURE.
2. SERIES IRON SITES MODEL SD-42 WITH AN OPTIONAL DOME LID AND SELF-CLOSING DOOR.
3. 36-GALLON CAPACITY HIGH DENSITY PLASTIC LINER (WEIGHT NOT TO EXCEED 6 LBS.) SITS ON TOP OF 1/4" x 2" SUPPORT BARS.

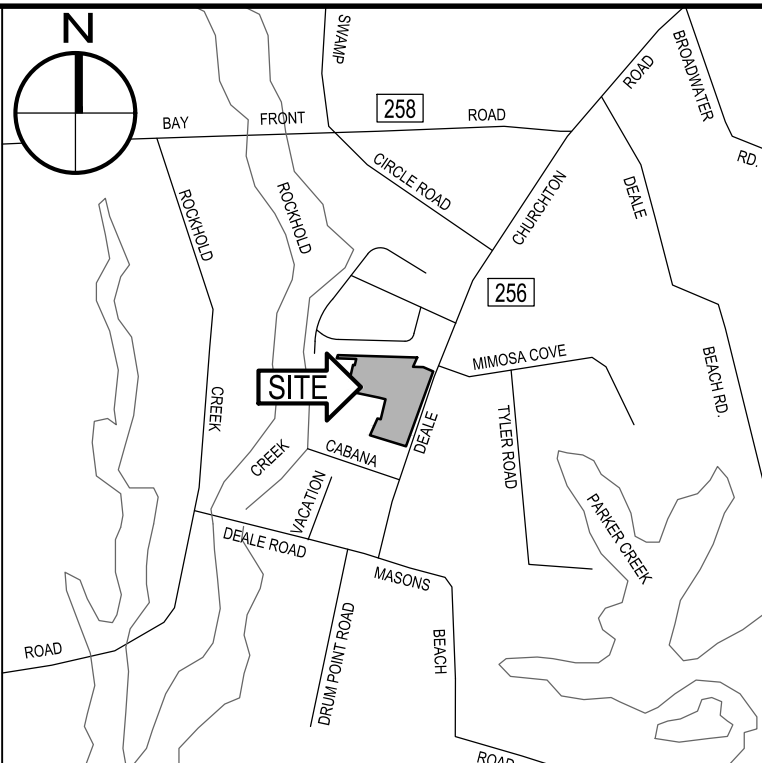
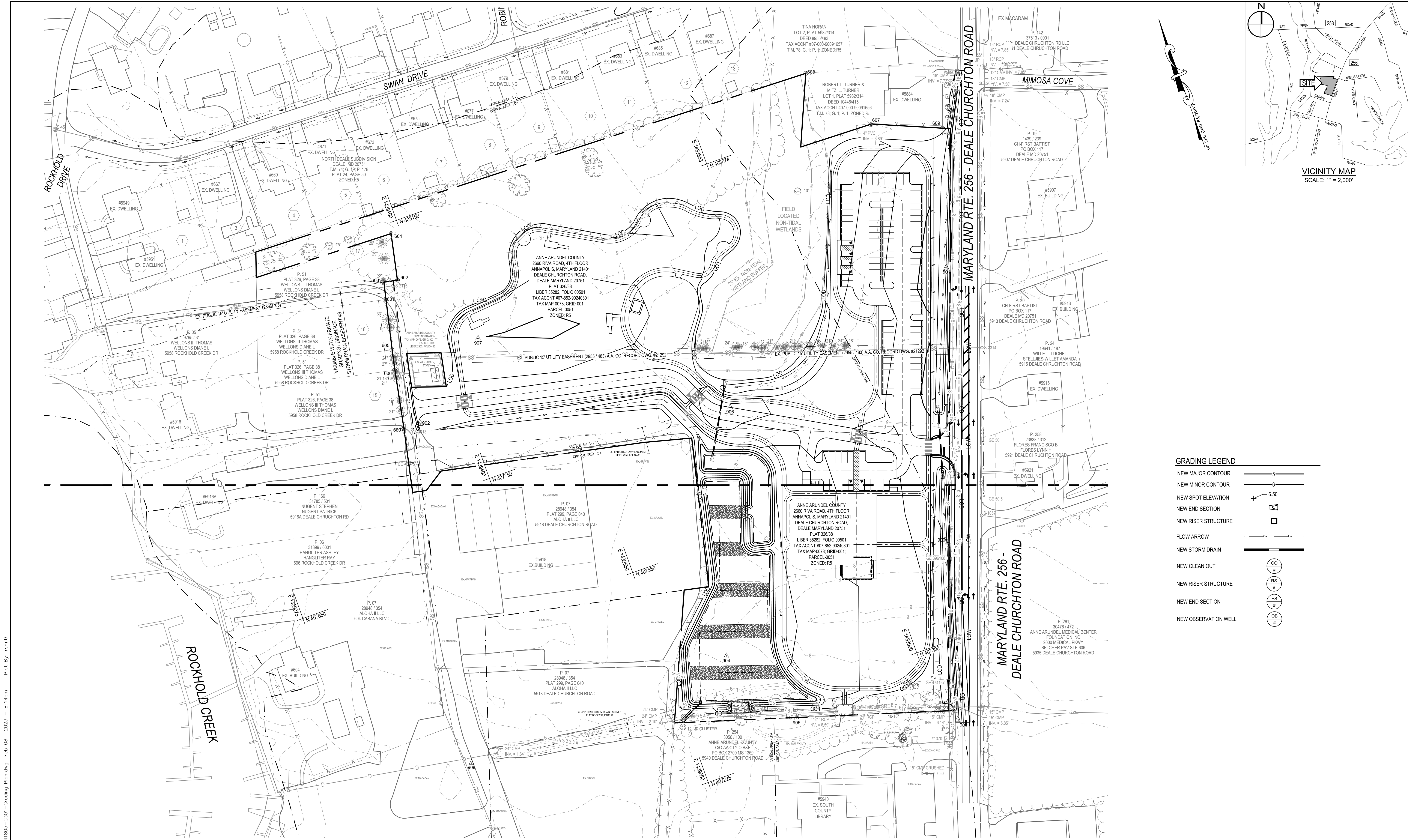
25 TRASH RECEPTACLE
NOT TO SCALE

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300 East Joppa Road Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

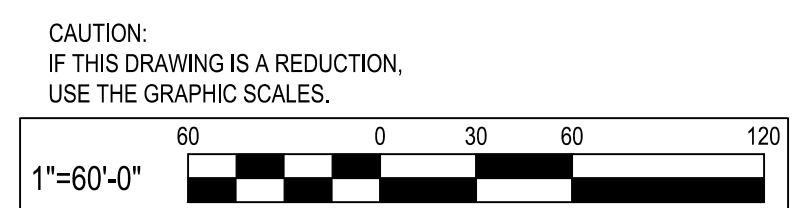
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License #27734 Expiration Date: 07/12/2024

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NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	
SCALE: AS SHOWN		DEALE COMMUNITY PARK	
DRAWN BY: R.S.S.			
CHECKED BY: R.W.H.			
SHEET NO. 11 OF 34			
PROJECT NO.: P582001			
CONTRACT NO.: P582001			
SITE DETAILS			



- GRADING LEGEND**
- NEW MAJOR CONTOUR ——— 5 ———
 - NEW MINOR CONTOUR ——— 6 ———
 - NEW SPOT ELEVATION + 6.50
 - NEW END SECTION ▽
 - NEW RISER STRUCTURE □
 - FLOW ARROW →
 - NEW STORM DRAIN ———
 - NEW CLEAN OUT (CO #)
 - NEW RISER STRUCTURE (RS #)
 - NEW END SECTION (ES #)
 - NEW OBSERVATION WELL (OB #)



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300 East Joppa Road Suite 200
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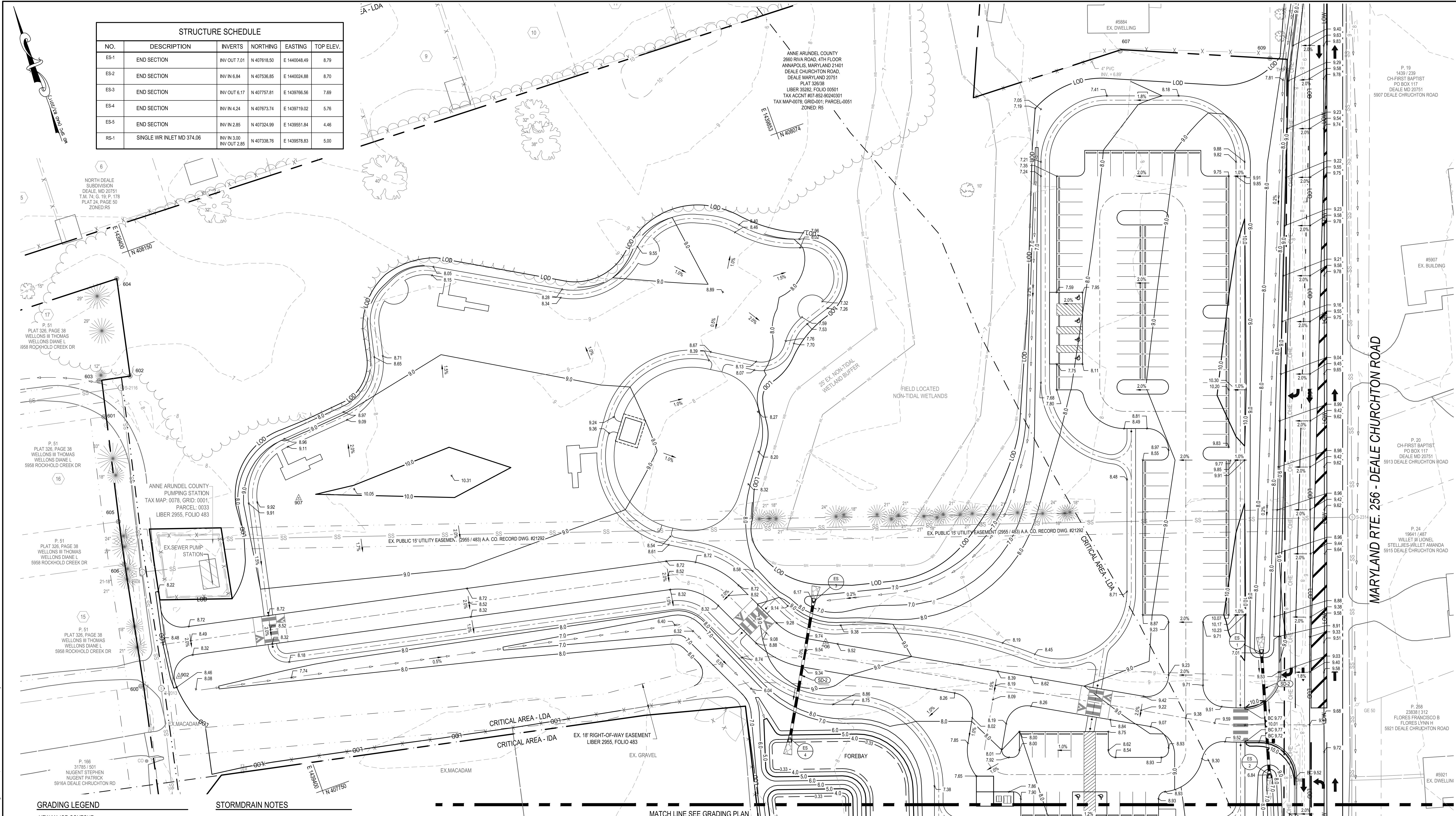
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License #22734 Expiration Date: 07/12/2024

REVISIONS				ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
NO.	DESCRIPTION	BY	DATE	APPROVED	DATE	APPROVED	DATE

APPROVED	DATE	APPROVED	DATE	SCALE: 1" = 60'
CHIEF ENGINEER		PROJECT MANAGER		DRAWN BY: R.S.S.
APPROVED	DATE	APPROVED	DATE	CHECKED BY: R.W.H.
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY		SHEET NO. 12 OF 34
				PROJECT NO.: P582001
				CONTRACT NO.: P582001

P:\2017\17141805\Drawings\07-Site\17141805-C301-Grading Plan.dwg Feb 08, 2023 8:14am Plot By: rsmith

STRUCTURE SCHEDULE					
NO.	DESCRIPTION	INVERTS	NORTHING	EASTING	TOP ELEV.
ES-1	END SECTION	INV OUT 7.01	N 407618.50	E 1440048.49	8.79
ES-2	END SECTION	INV IN 6.84	N 407536.85	E 1440024.88	8.70
ES-3	END SECTION	INV OUT 6.17	N 407757.81	E 1439766.56	7.69
ES-4	END SECTION	INV IN 4.24	N 407673.74	E 1439719.02	5.76
ES-5	END SECTION	INV IN 2.85	N 407324.99	E 1439651.84	4.46
RS-1	SINGLE WR INLET MD 374.06	INV IN 3.00 INV OUT 2.85	N 407338.76	E 1439678.83	5.00

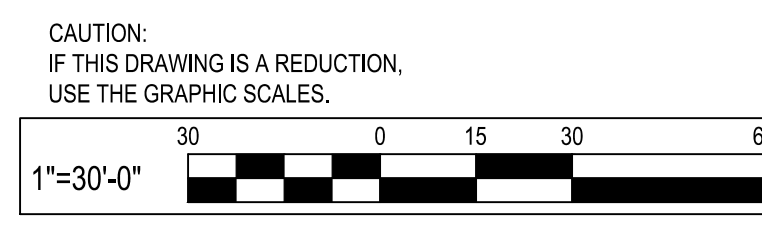


- GRADING LEGEND**
- NEW MAJOR CONTOUR 5
 - NEW MINOR CONTOUR 6
 - NEW SPOT ELEVATION 6.50
 - NEW END SECTION
 - NEW RISER STRUCTURE
 - FLOW ARROW
 - NEW STORM DRAIN
 - NEW CLEAN OUT
 - NEW RISER STRUCTURE
 - NEW END SECTION
 - NEW OBSERVATION WELL

STORMDRAIN NOTES

SD-1 NEW 6" PERFORATED SCH 40 PVC PIPE.

SD-2 NEW 14" x 23" HERCP PIPE.



REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE

SCALE: 1" = 30'

DRAWN BY: R.S.S.

CHECKED BY: R.W.H.

SHEET NO. 13 OF 34

PROJECT NO.: P582001

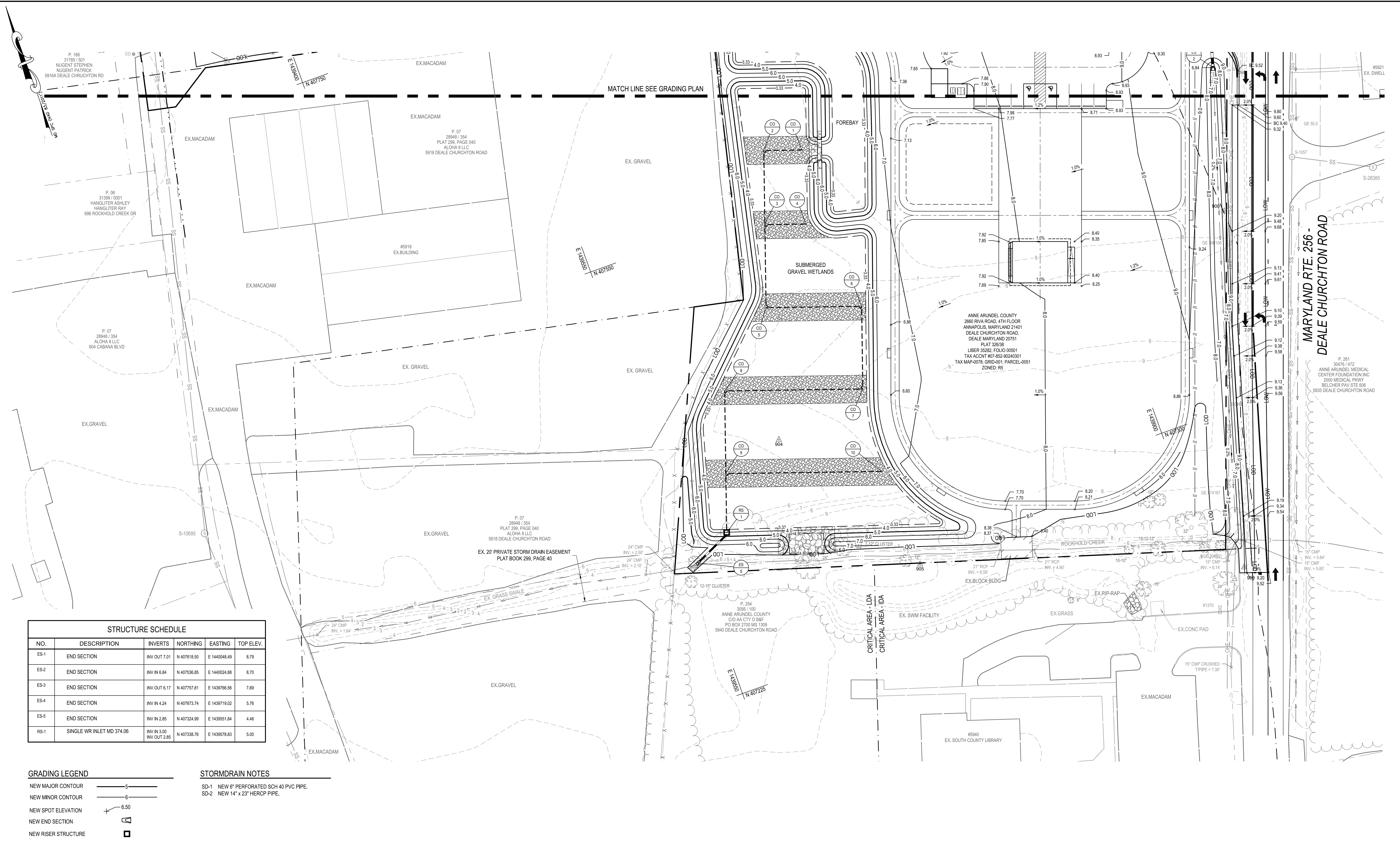
CONTRACT NO.: P582001

DEALE COMMUNITY PARK

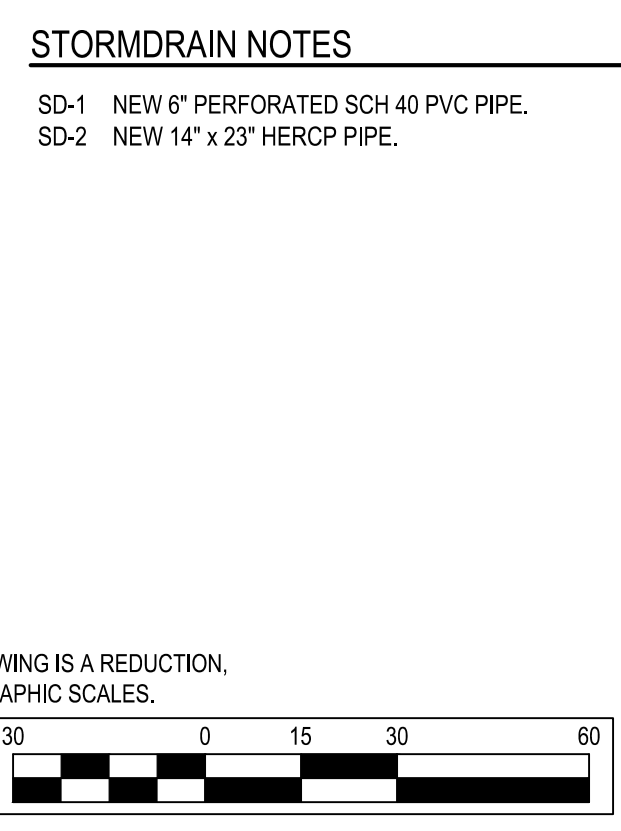
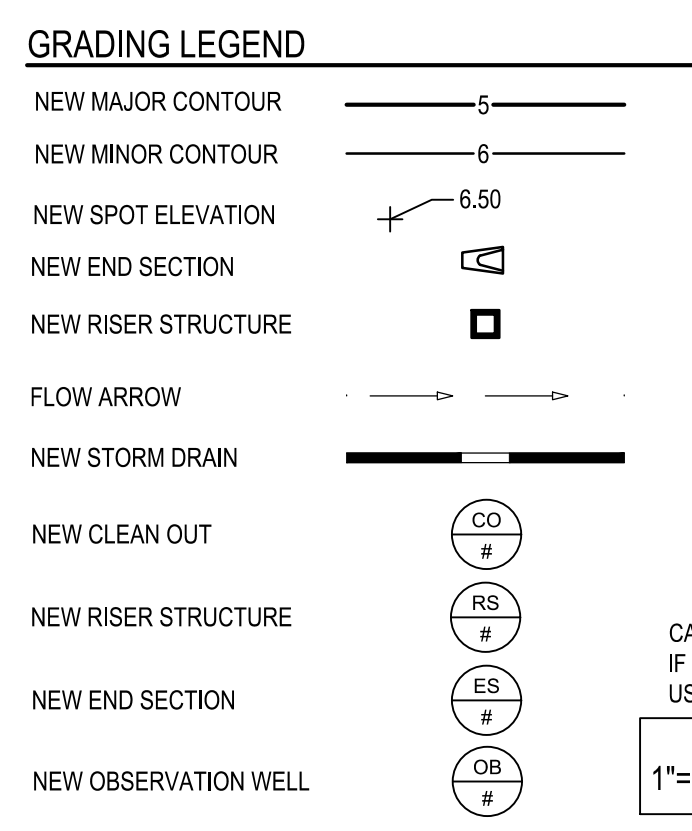
GRADING PLAN

P:\2017\17141805\Drawings\07-Site\17141805-C301-Grading_Plan.dwg Feb 08, 2023 8:14am Plot By: rsmith

P:\2017\17141805\Drawings\07-Site\17141805-C301-Grading_Plan.dwg Feb 05, 2023 8:15am Plot By: rsmith



STRUCTURE SCHEDULE					
NO.	DESCRIPTION	INVERTS	NORTHING	EASTING	TOP ELEV.
ES-1	END SECTION	INV OUT 7.01	N 407618.50	E 1440048.49	8.79
ES-2	END SECTION	INV IN 6.84	N 407536.85	E 1440024.88	8.70
ES-3	END SECTION	INV OUT 6.17	N 407757.81	E 1439786.56	7.69
ES-4	END SECTION	INV IN 4.24	N 407673.74	E 1439719.02	5.76
ES-5	END SECTION	INV IN 2.85	N 407324.99	E 1439551.84	4.46
RS-1	SINGLE WR INLET MD 374.06	INV IN 3.00 INV OUT 2.85	N 407338.76	E 1439578.83	5.00



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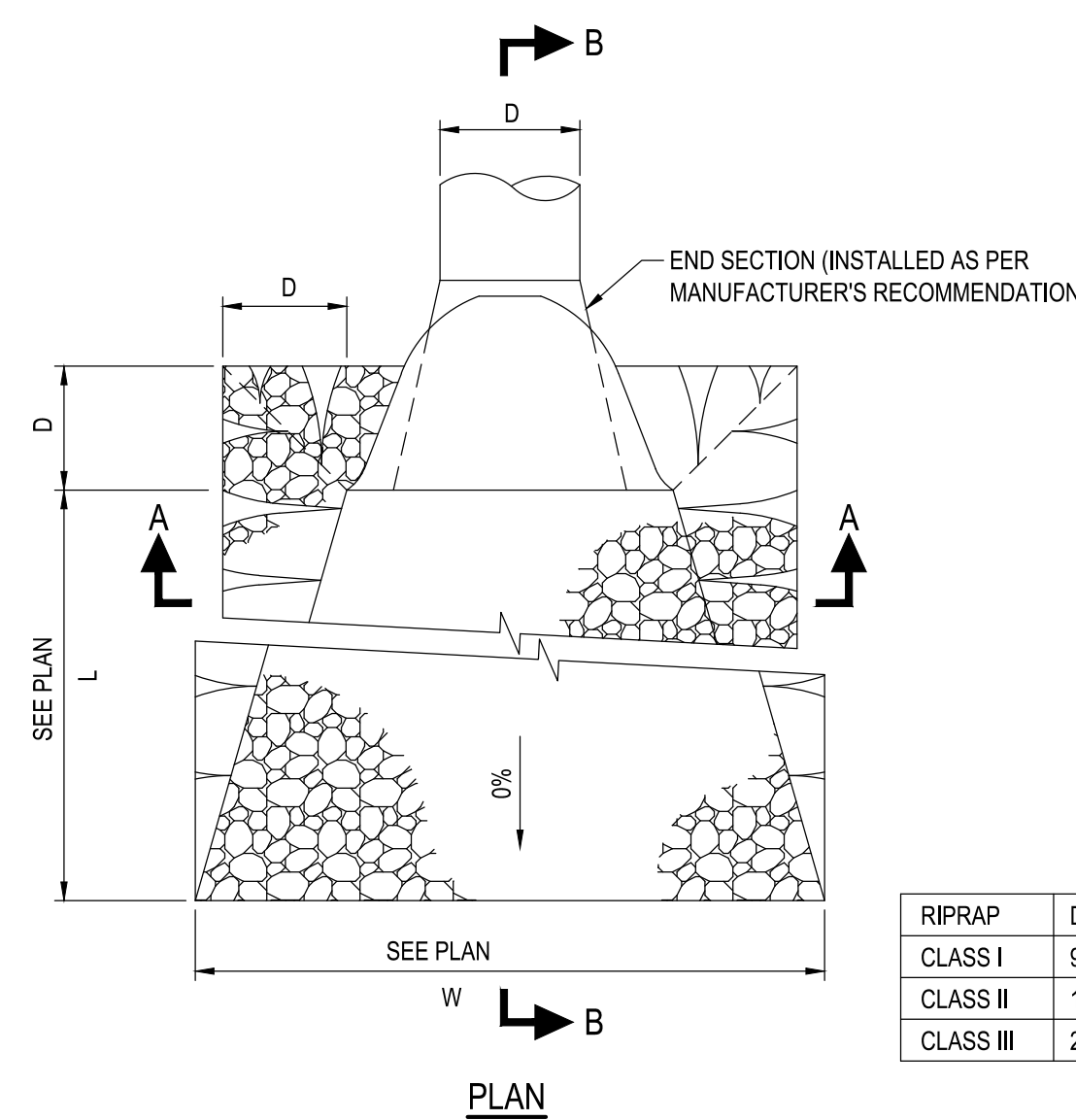
REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

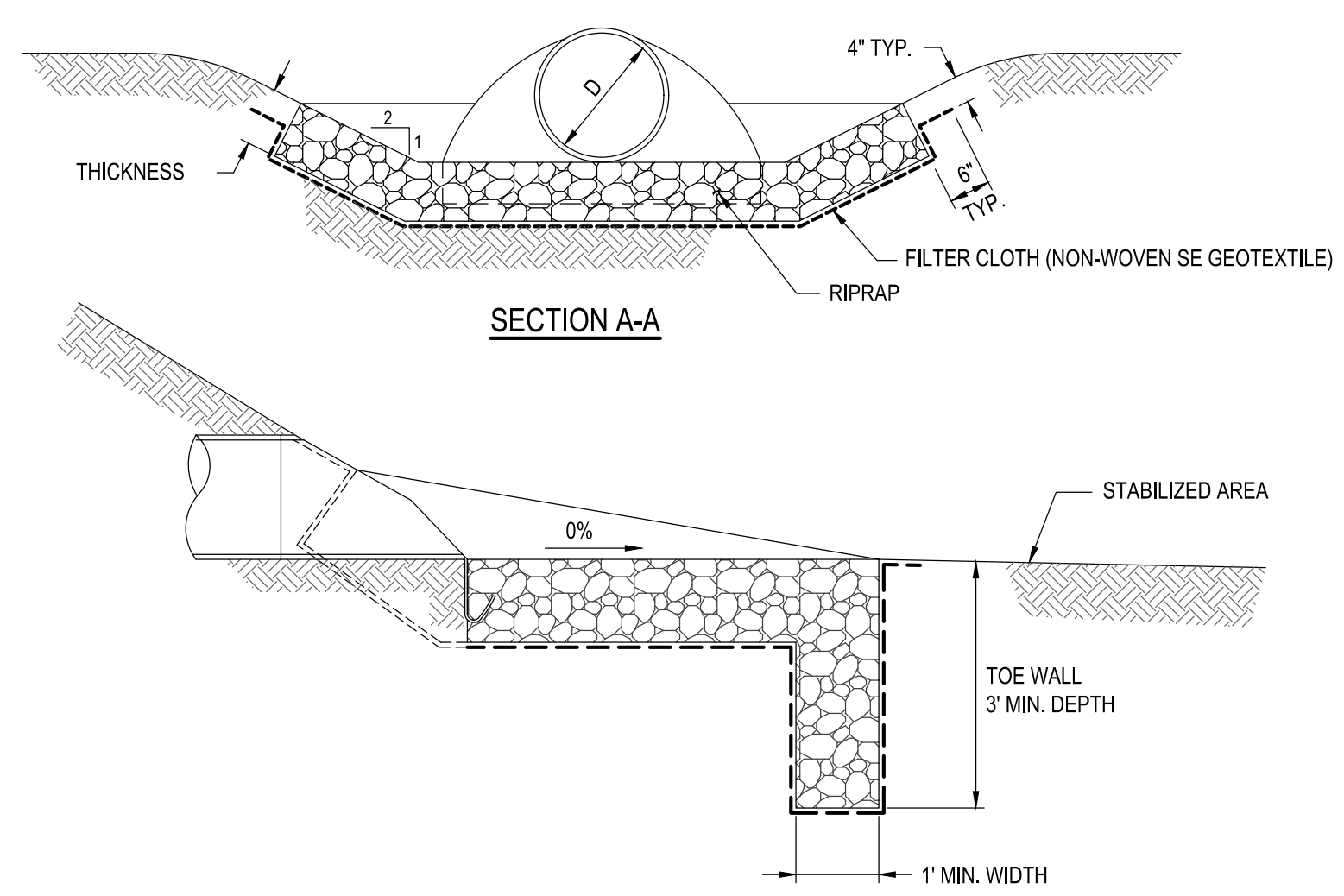
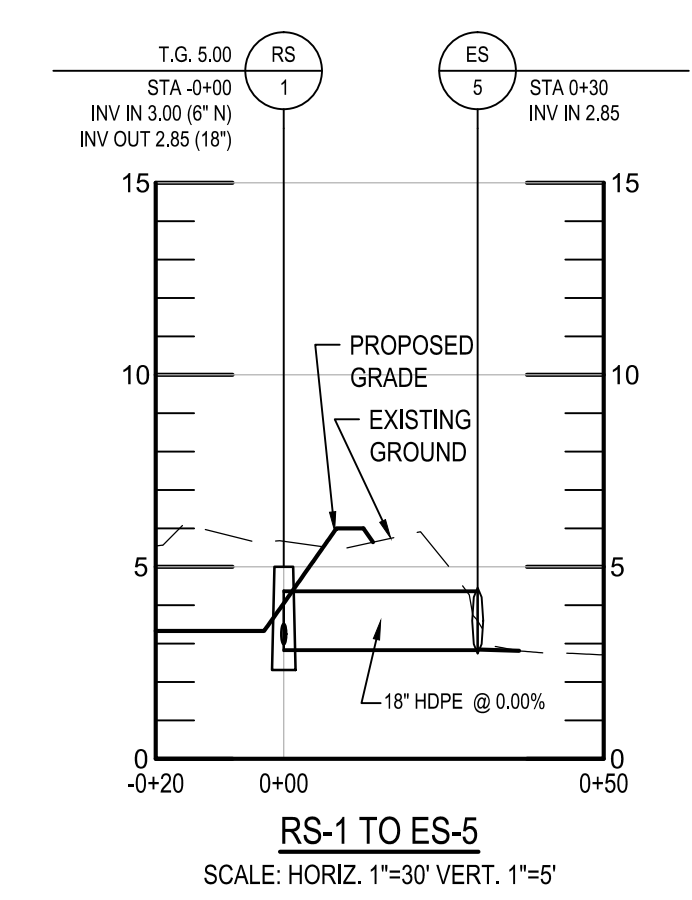
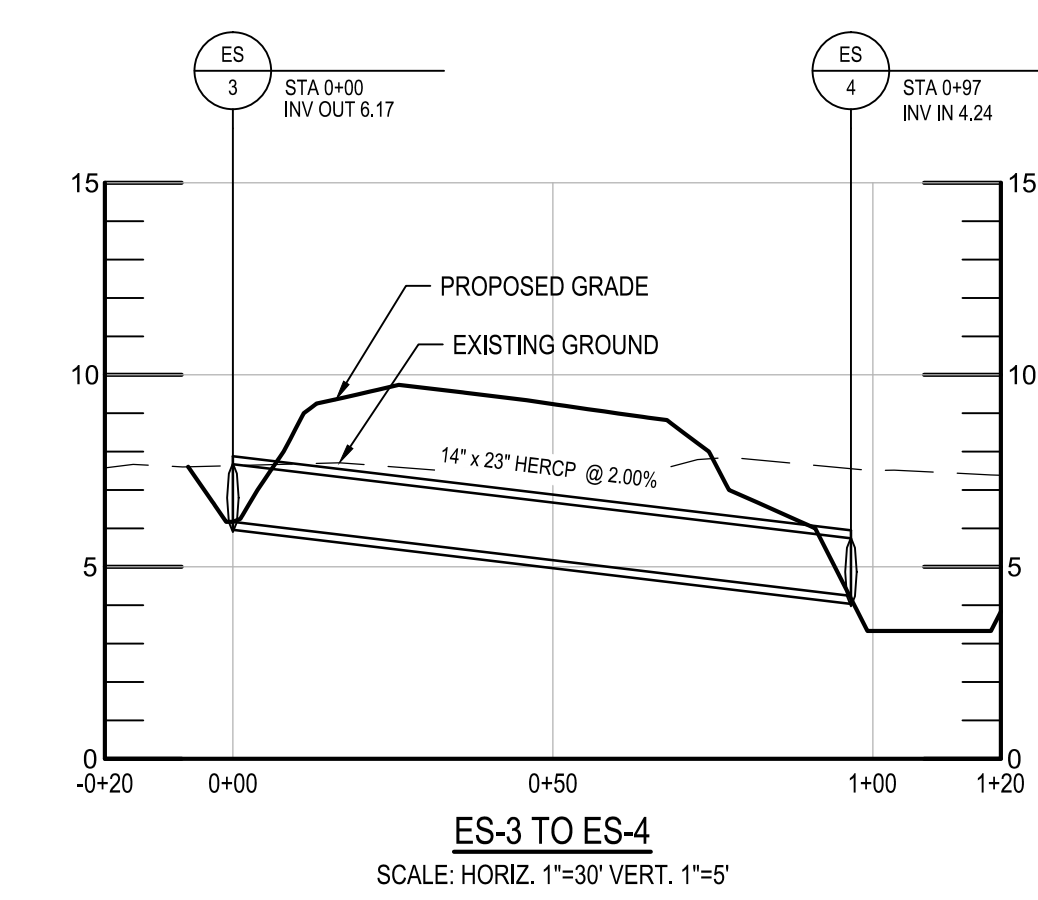
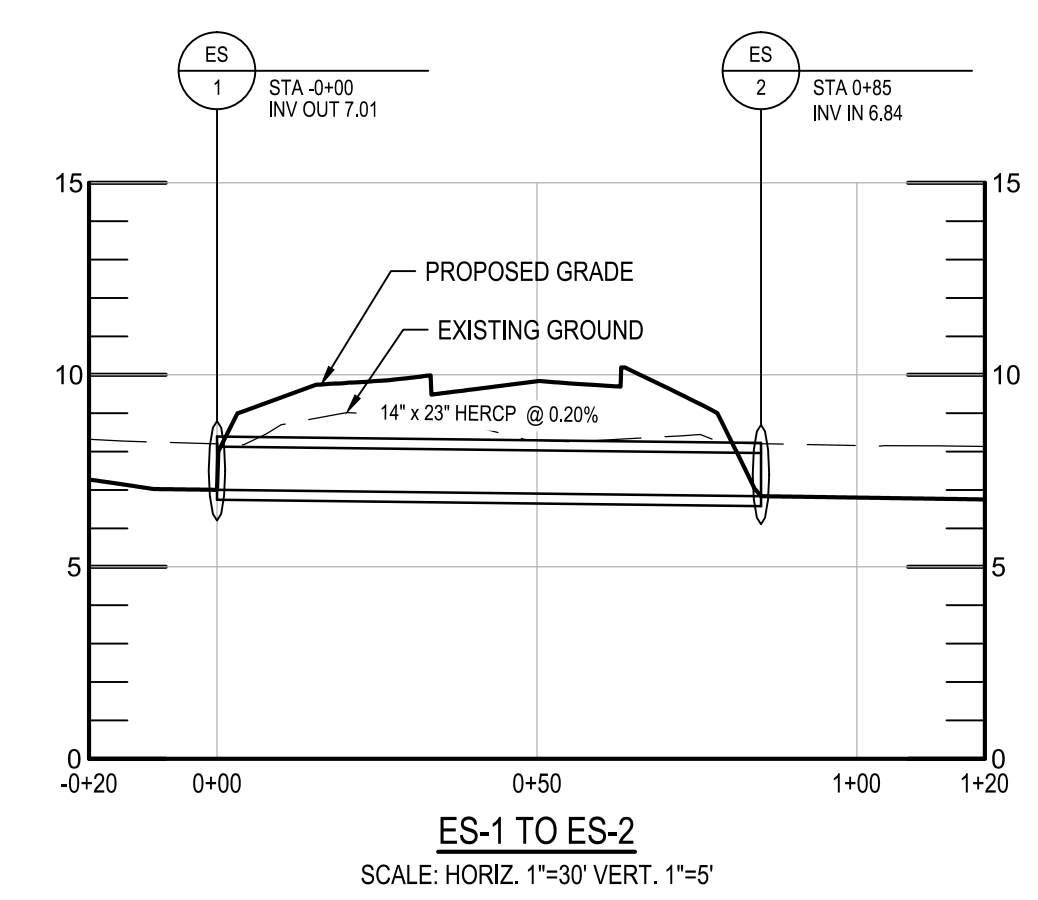
APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: 1" = 30'
CHIEF ENGINEER _____	PROJECT MANAGER _____	DRAWN BY: R.S.S.
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: R.W.H.
ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT-OF-WAY _____	SHEET NO. 14 OF 34
		PROJECT NO.: P582001
		CONTRACT NO.: P582001

DEALE COMMUNITY PARK

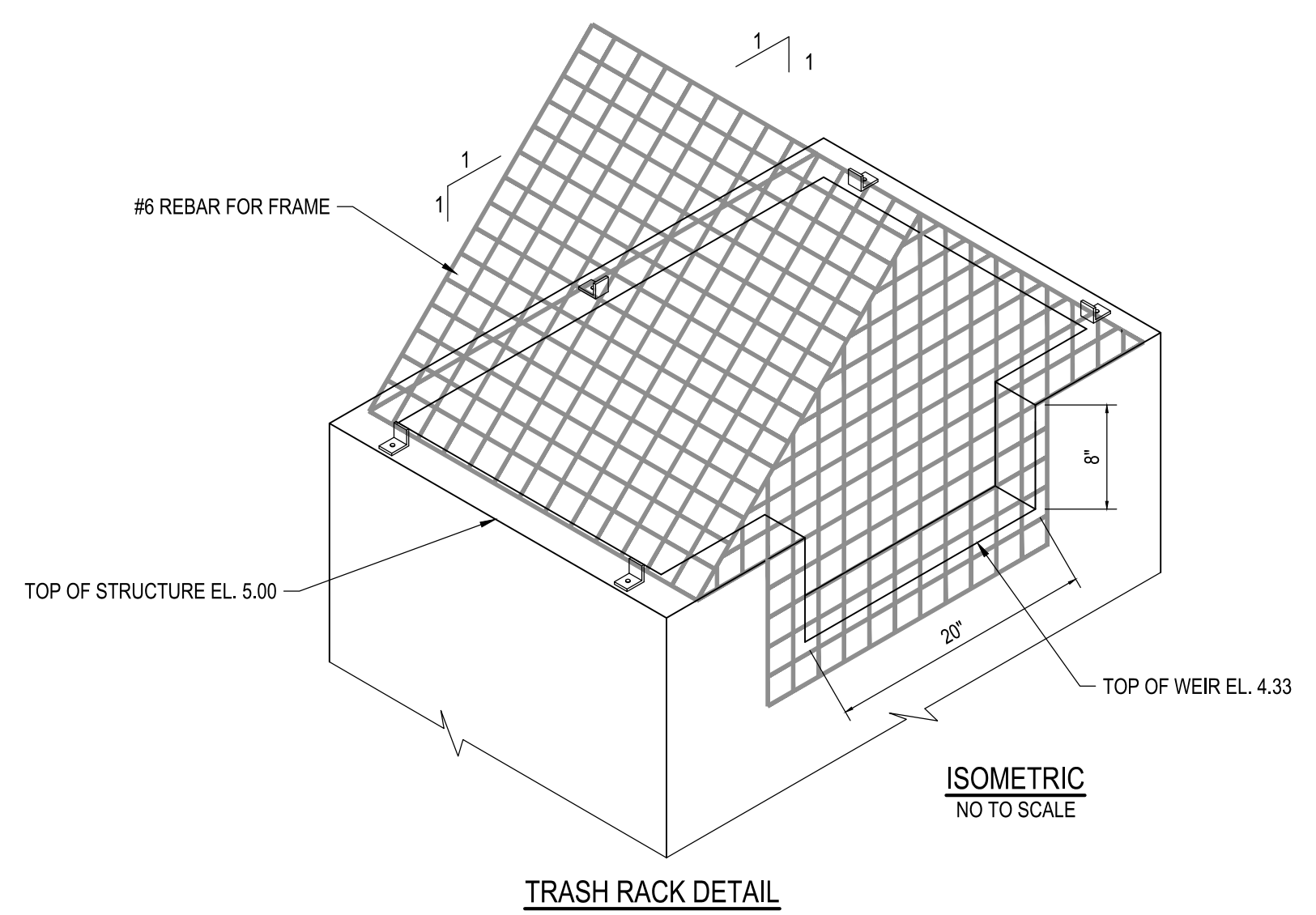
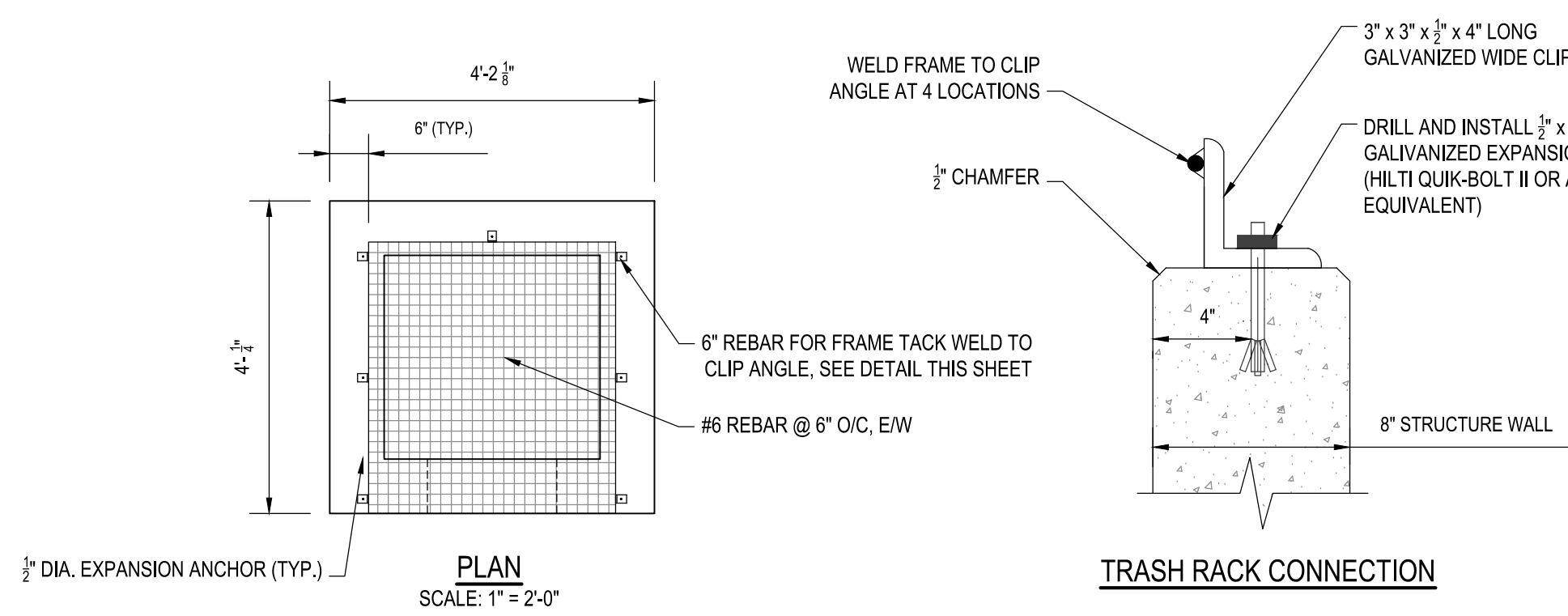
GRADING PLAN



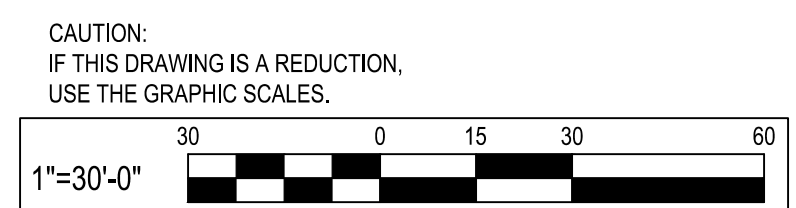
RIPRAP CLASS	D ₅₀	D ₁₀₀	THICKNESS
CLASS I	9.5"	15"	19"
CLASS II	16"	24"	32"
CLASS III	23"	34"	46"



- THE SUBGRADE FOR THE FILTER, RIPRAP OR GABION SHALL BE PREPARED TO THE REQUIRED LINES AND GRADES. ANY FILL REQUIRED IN THE SUBGRADE SHALL BE COMPACTED TO A DENSITY OF APPROXIMATELY THAT OF THE SURROUNDING UNDISTURBED MATERIAL.
- FILTER CLOTH SHALL BE PROTECTED FROM PUNCHING, CUTTING OR TEARING. ANY DAMAGE OTHER THAN AN OCCASIONAL SMALL HOLE SHALL BE REPAIRED BY PLACING ANOTHER PIECE OF CLOTH OVER THE DAMAGED PART OR BY COMPLETELY REPLACING THE CLOTH. ALL OVERLAPS WHETHER FOR REPAIRS OR FOR JOINING TWO PIECES OF CLOTH SHALL BE A MINIMUM OF ONE FOOT.
- STONE FOR THE RIPRAP OR GABION OUTLETS MAY BE PLACED BY EQUIPMENT. BOTH SHALL BE CONSTRUCTED TO THE FULL COURSE THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO AVOID DISPLACEMENT OF UNDERLYING MATERIALS. THE STONE FOR RIPRAP OR GABION OUTLETS SHALL BE DELIVERED AND PLACED IN A MANNER THAT WILL INSURE THAT IT IS REASONABLY HOMOGENOUS WITH THE SMALLER STONES AND SPALLS FILLING THE VOIDS BETWEEN THE LARGER STONES. RIPRAP SHALL BE PLACED IN A MANNER TO PREVENT DAMAGE TO THE FILTER BLANKET OR FILTER CLOTH. HAND PLACEMENT WILL BE REQUIRED TO THE EXTENT NECESSARY TO PREVENT DAMAGE TO THE PERMANENT WORKS.



RIP RAP OUTFALL DETAIL



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REVISIONS			
NO.	DESCRIPTION	BY	DATE

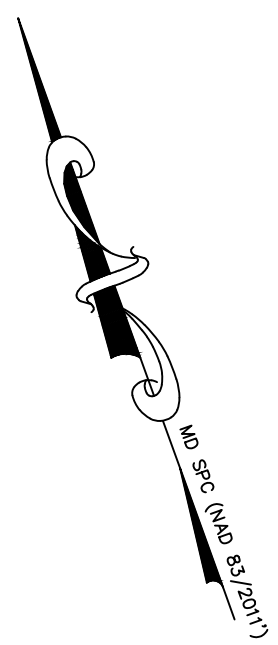
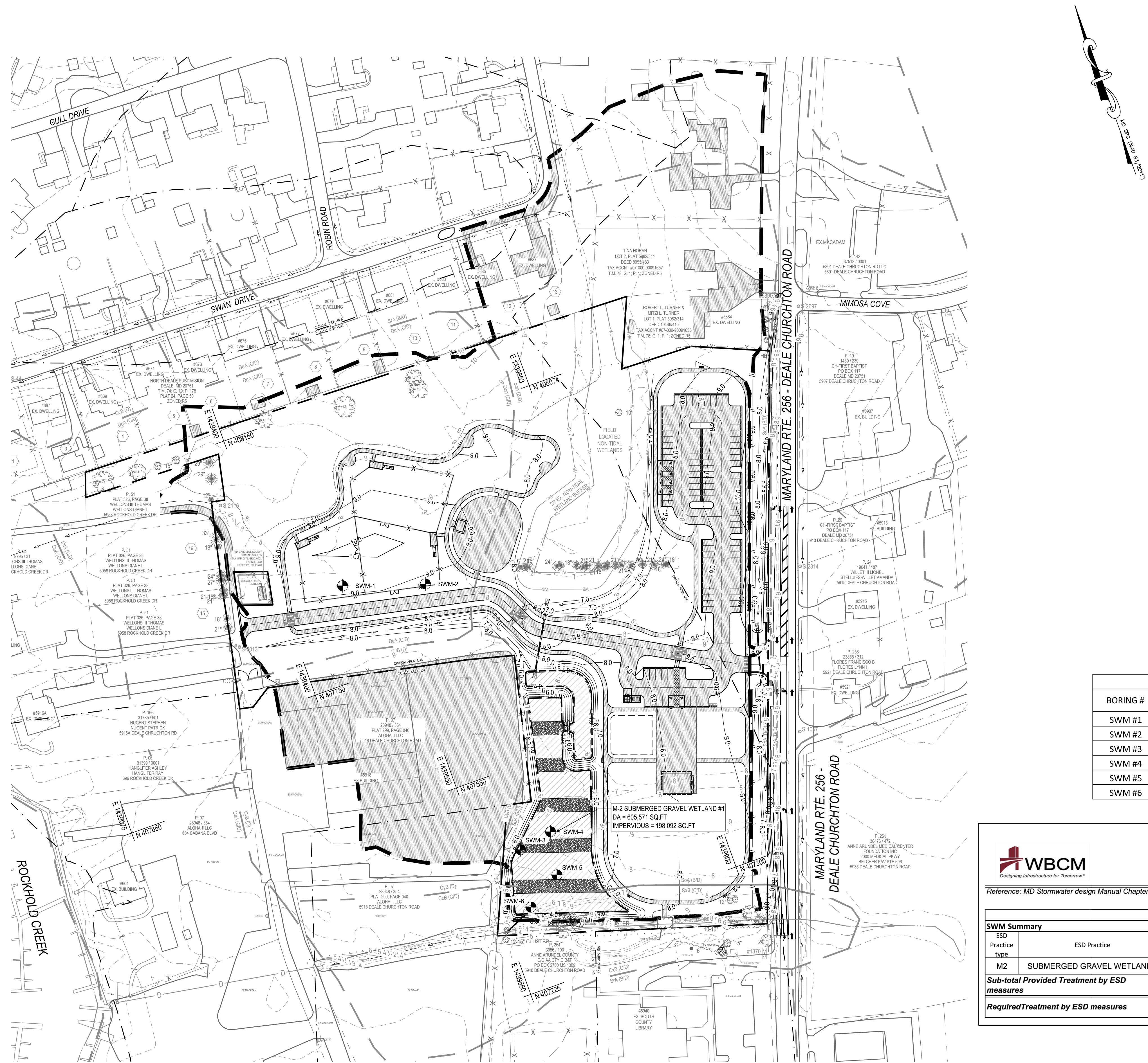
ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

APPROVED	DATE	APPROVED	DATE	SCALE: 1" = 30'
CHIEF ENGINEER		PROJECT MANAGER		DRAWN BY: R.S.S.
APPROVED	DATE	APPROVED	DATE	CHECKED BY: R.W.H.
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY		SHEET NO. 15 OF 34
				PROJECT NO.: P582001
				CONTRACT NO.: P582001

DEALE COMMUNITY PARK

PROFILES

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STORMWATER MANAGEMENT LEGEND

- SoA (B/D) MAPPED SOIL UNIT / HYDROLOGIC SOIL GROUP RATING
- DaA (C/D) DRAINAGE AREA BOUNDARY
- PROPOSED STORM DRAIN
- M-2 SUBMERGED GRAVEL WETLAND AREA
- TRAIL SURFACE (IMPERVIOUS)
- TREATED IMPERVIOUS AREA
- SWM-# STORM WATER BORING LOCATION

SOIL LEGEND:

NAME	DESCRIPTION	HSG RATING	K RATING (WHOLE SOIL)
CbB	CUMBERSTONE MATTAPEX	C/D	0.37
CyB	CUMBERSTONE MATTAPEX URBAN	D	0.37
DcA	DEALE-SHADYOAK	C/D	0.43
DeA	DEALE-SHADYOAK URBAN	C/D	0.43
SoA	SHADYOAK ELKTON	B/D	0.37
SpA	SHADYOAK ELKTON (FREQUENTLY PONDED)	B/D	0.37
SrA	SHADYOAK-ELKTON URBAN	B/D	0.37

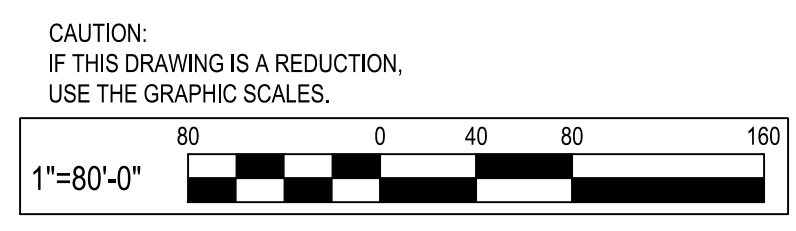
SUMMARY TABLE (FACILITY BOTTOM VS GROUND WATER ELEVATION)

BORING #	STORMWATER MANAGEMENT FACILITY	ELEVATION OF FACILITY BOTTOM	GROUND WATER ELEVATION	Total Depth
SWM #1	N/A	-	-	10'
SWM #2	N/A	-	-	10'
SWM #3	Submerged Gravel Wetland	0.66'	-1'	9.4'
SWM #4	Submerged Gravel Wetland	0.66'	1.2'	10'
SWM #5	Submerged Gravel Wetland	0.66'	-1'	10'
SWM #6	Submerged Gravel Wetland	0.66'	1.5'	9.4'

2000 MD Environmental Site Design (ESD) Job No.: 2017.1418.05
Project: Deale Community Park By: RSS Date: 2/6/2023
 Location: Maryland Rte. 256 - Deale Churchton Road Computed: RSS
 County: Anne Arundel Checked: MAM

Stormwater Management - Summary

ESD Practice type	ESD Practice	Number	Area of Filter Af (ft ²)	Drainage Area (ft ²)	Impervious Area (ft ²)	I%	Rv	Design Pe	ESDv treated (ft ³)
M2	SUBMERGED GRAVEL WETLANDS	1	33,369	605,571	198,092	33%	0.34	1.80	31,247
Sub-total Provided Treatment by ESD measures									31,247
Required Treatment by ESD measures									27,875



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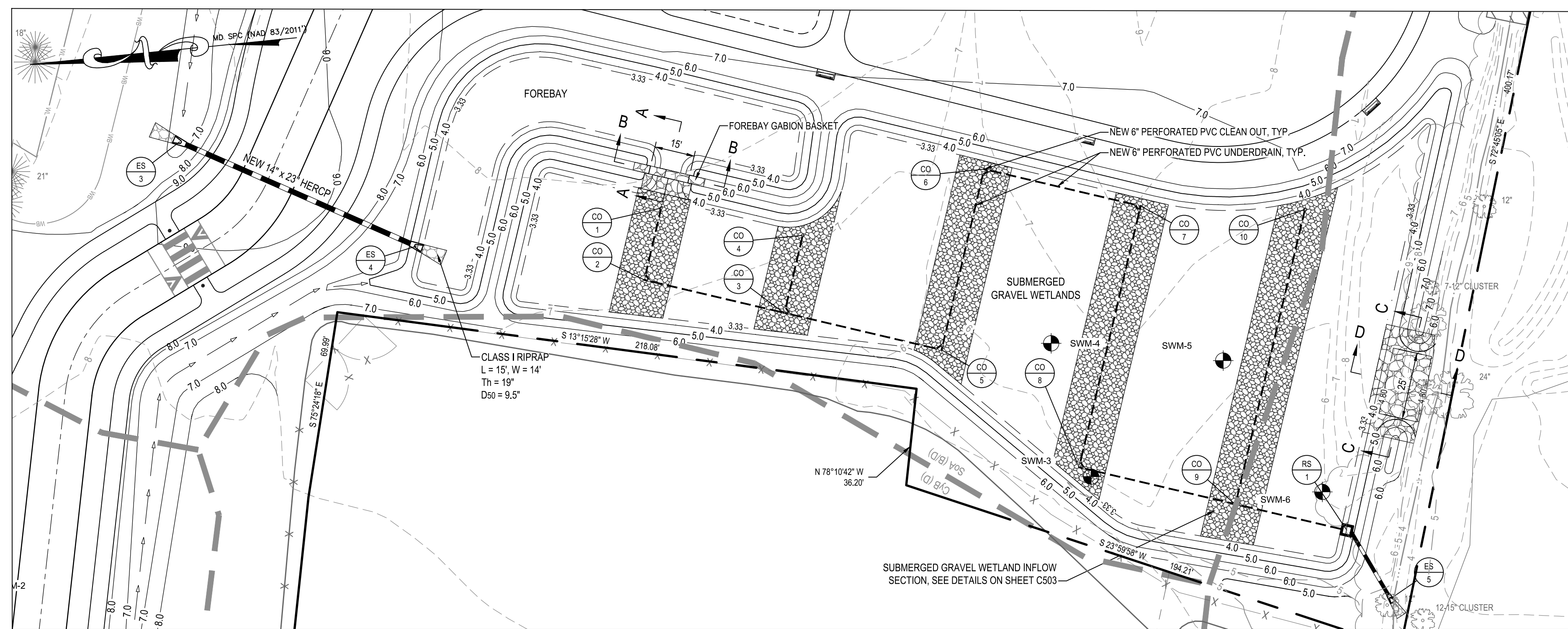
REVISIONS

NO.	DESCRIPTION	BY	DATE

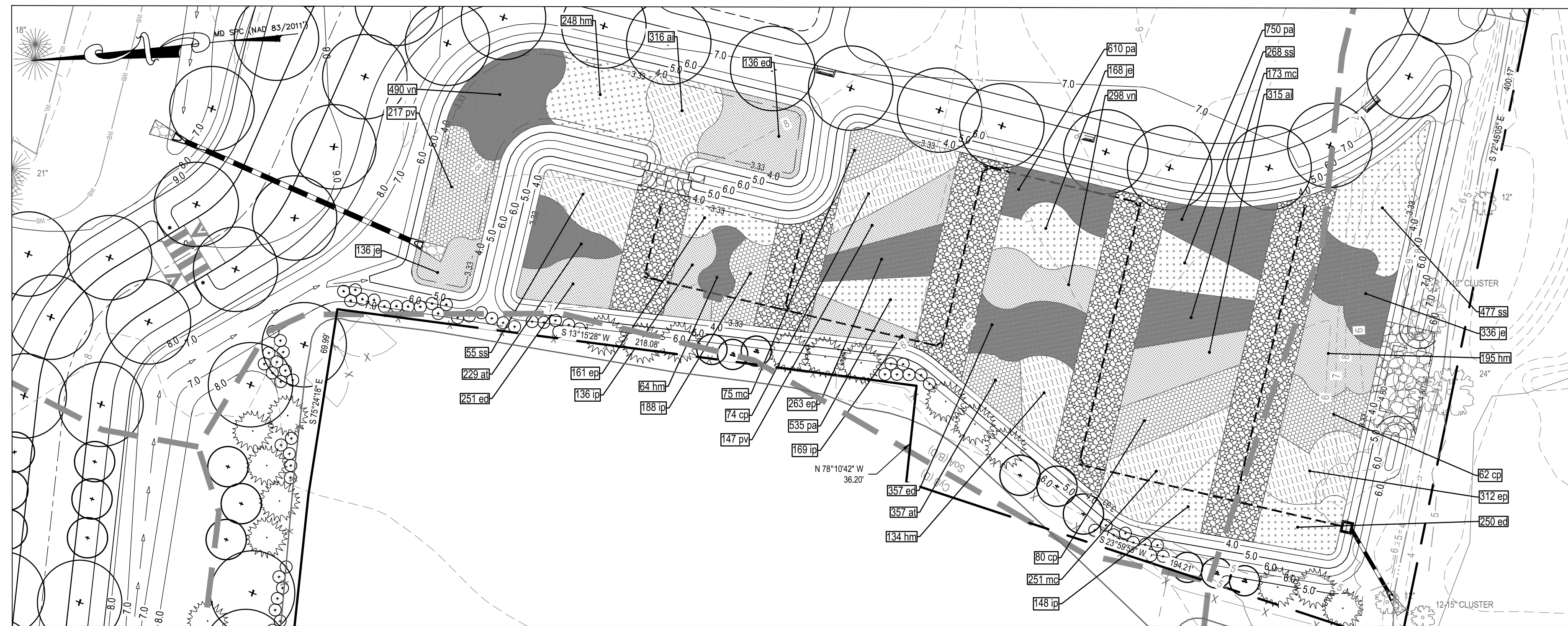
ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: 1" = 80'
CHIEF ENGINEER _____	PROJECT MANAGER _____	DRAWN BY: R.S.S.
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: R.W.H.
ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT-OF-WAY _____	SHEET NO. 16 OF 34
		PROJECT NO.: P582001
		CONTRACT NO.: P582001

DEALE COMMUNITY PARK
STORM WATER MANAGEMENT PLAN



SEE SHEET C503 FOR DETAILS AND SPECIFICATIONS.
M-2 SUBMERGED GRAVEL WETLANDS
 SCALE: 1" = 30'



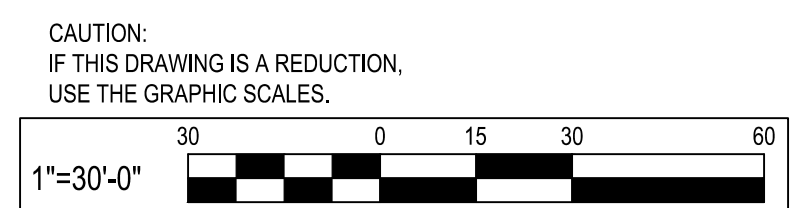
M-2 SUBMERGED GRAVEL WETLANDS (PLANTING PLAN)
 SCALE: 1" = 30'

AS-BUILT CERTIFICATION
 I HEREBY CERTIFY THAT THE STORMWATER MANAGEMENT FACILITIES SHOWN ON THE PLANS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS APPROVED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, EXCEPT AS NOTED IN RED ON THE "AS-BUILT" DRAWINGS.
 PROFESSIONAL CERTIFICATION: I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE # _____ EXPIRATION DATE _____

NAME (PRINTED) _____ SIGNATURE _____
 MARYLAND REGISTRATION NUMBER _____ DATE _____

M-2 SUBMERGED GRAVEL WETLANDS
 FACILITY ID DESCRIPTION _____

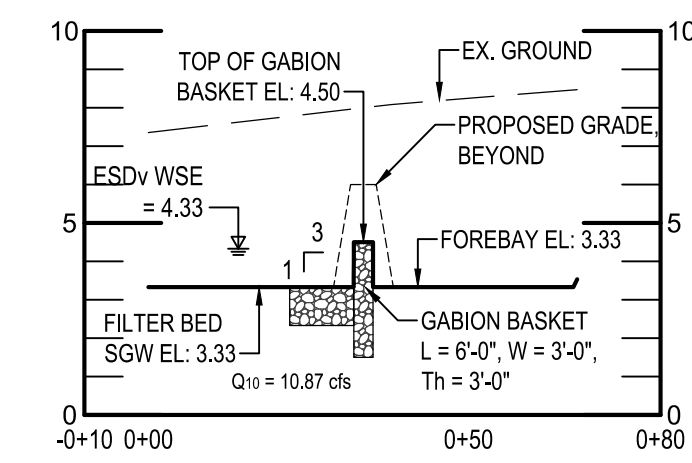
CERTIFY MEANS TO STATE OR DECLARE A PROFESSIONAL OPINION BASED ON SUFFICIENT AND APPROPRIATE ONSITE INSPECTIONS AND MATERIAL TESTS CONDUCTED DURING CONSTRUCTION



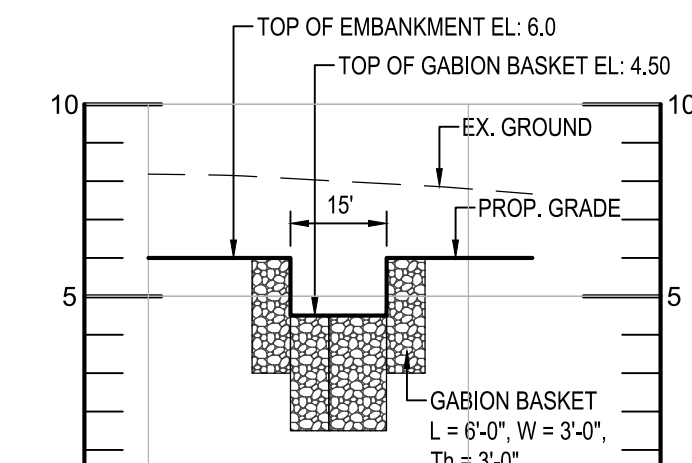
- PLANTING LEGEND:**
- MAJOR TREE
 - MINOR TREE
 - PERENNIAL / GRASSES
 - SEED MIX ONLY



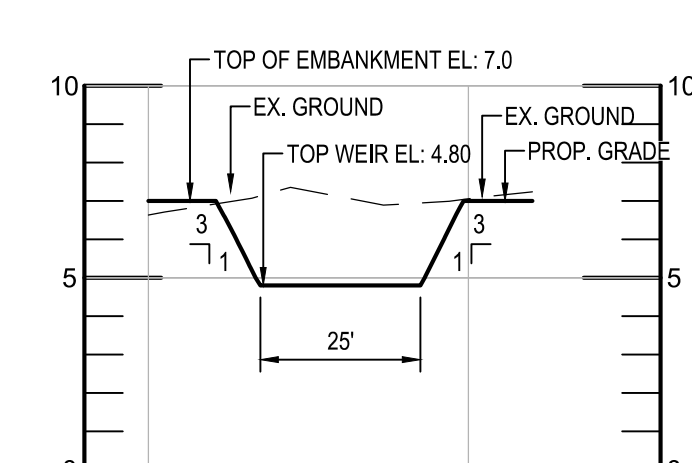
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License #22734 Expiration Date: 07/12/2024



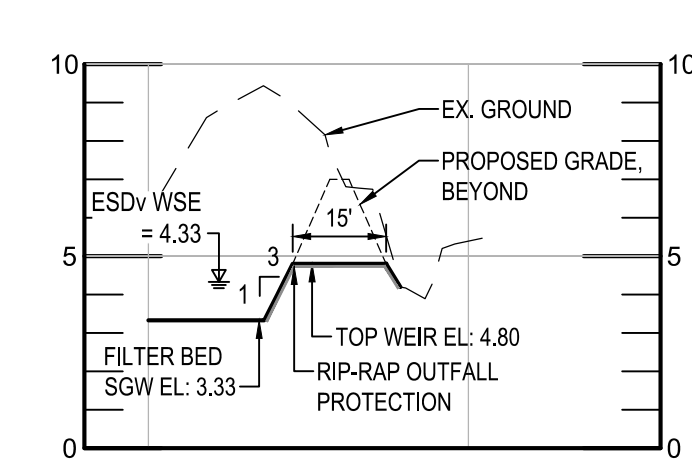
SECTION A-A
 SCALE: HORIZ. 1"=30' VERT. 1"=5'



SECTION B-B
 SCALE: HORIZ. 1"=30' VERT. 1"=5'



SECTION C-C
 SCALE: HORIZ. 1"=30' VERT. 1"=5'



SECTION D-D
 SCALE: HORIZ. 1"=30' VERT. 1"=5'

PROJECT NAME: DEALE COMMUNITY PARK		
AS - BUILT DATA FOR ESD PRACTICES		
* TO BE COMPLETED BY THE CERTIFYING ENGINEER		
TYPE OF FACILITY: M-2, SUBMERGED GRAVEL WETLAND	BMP ID: SUBMERGED GRAVEL WETLAND (M-2) FACILITY #1	
FEATURE	DESIGN	*AS-BUILT
FOREBAY		
BOTTOM ELEVATION	3.33	
WEIR WIDTH / ELEVATION	15' / 4.33'	
DISTRIBUTION PIPE SIZE / INV. IN / INV. OUT	N/A	
CELLS		
BOTTOM ELEVATION OF STONE / THICKNESS	0.41' / 24"	
CHOKING STONE	3"	
TOP ELEVATION OF BSM / THICKNESS	3.33 / 8"	
WEIR WIDTH / ELEVATION	25' / 4.80'	
DISTRIBUTION PIPE SIZE/ MATERIAL / ELEV.	6" / PVC / 0.91'	
OUTLET		
STRUCTURE / ELEVATION	RS-1 / 4.33'	
LOW FLOW PIPE SIZE/ MATERIAL / ORIFICE SIZE	6" / PVC / 3.5"	
UNDERDRAIN INV. IN RISER	3.0'	
UNDERDRAIN INV. OUT RISER	N/A	
TOP OF EMBANKMENT	6.00	
PLANTINGS	SEE DETAILS ON THIS SHEET	
OBSERVATION WELL WITH DEPTH TO FILTER BOTTOM INDICATED ON CAP	OBS #1, (3.92')	
DATE AS-BUILT ACCEPTED BY MDE:		

STORMWATER MANAGEMENT PLANT SCHEDULE					
Symbol	Quantity	Botanical Name	Common Name	Size	Note
al	631	Aesclaplia incarnata	Swamp Milkweed	1 Qt.	18" O.C.
at	586	Aesclaplia tuberosa	Butterfly Weed	1 Qt.	18" O.C.
cp	216	Comptonia peregrina	Sweet Fern	1 gal.	3" O.C.
ed	1022	Eupatorium dubium 'Little Joe'	Dwarf Joe Pye Weed	1 Qt.	18" O.C.
ep	736	Echinacea purpurea	Purple Coneflower	1 Qt.	18" O.C.
hm	641	Hibiscus moscheutos	Rose mallow	1 Qt.	24" O.C.
ip	505	Iris prismatica	Slender Blueflag	1 Qt.	18" O.C.
je	258	Juncus effusus	Soft Rush	1 Qt.	24" O.C.
mc	326	Muhlenbergia capillaris	Muhly Grass	1 Qt.	24" O.C.
pa	1892	Packera aurea	Golden Ragwort	1 Qt.	12" O.C.
pv	364	Panicum virgatum	Switchgrass	1 Qt.	24" O.C.
ss	1000	Schizachyrium scoparium	Little Bluestem	1 Qt.	18" O.C.
vn	788	Vernonia noveboracensis	New York Ironweed	1 Qt.	18" O.C.
Seed Mixes					
S1	915 s.t.	ERNMX 173	Eastern Native Habitat & CREP Mix		11 lb/ACRE
	40%	Andropogon gerardii	Big Bluestem "Niagara"		
	25%	Elymus virginicus	Virginia Wildrye		
	15%	Panicum virgatum	Switchgrass		
	8%	Chamaecrista fasciculata, P.A. Ecotype	Partridge Pea		
	5%	Sorghastrum nutans	Indiangrass		
	3.9%	Echinacea purpurea	Purple Coneflower		
	3.5%	Rudbeckia hirta	Black Eyed Susan		
	0.1%	Monarda fistulosa	Wild Bergamont		
S2	950 s.t.	ERNMX 128	Seasonally Flooded Wildlife Food Mix		20 lb/ACRE
	21.5%	Panicum clandestinum	Deertongue "Tiger"		
	20.0%	Elymus virginicus PA Ecotype	Virginia Wildrye		
	16.8%	Andropogon gerardii	Big Bluestem "Niagara"		
	15.0%	Echinochloa crusgalli var. Frumentacea	Japanese Millet		
	8.0%	Panicum virgatum	Switchgrass		
	4.0%	Chamaecrista fasciculata, PA Ecotype	Partridge Pea		
	1.5%	Verbena hastata	Blue Vervain		
	1.0%	Helopsis helianthoides, PA Ecotype	Oxeye Sunflower		
	1.0%	Juncus effusus	Soft Rush		
	0.8%	Agrostis perennans, Albany Pine Bush Ecotype	Autumn Bentgrass		
	0.1%	Aesclaplia incarnata	Swamp Milkweed		
	0.1%	Aster novae-angliae PA Ecotype	New England Aster		
	1.1%	Eupatorium perfoliatum, PA Ecotype	Boneset		
	0.1%	Monarda fistulosa	Wild Bergamont		
	0.1%	Pycnanthemum tenuifolium	Narrowleaved Mountain Mint		

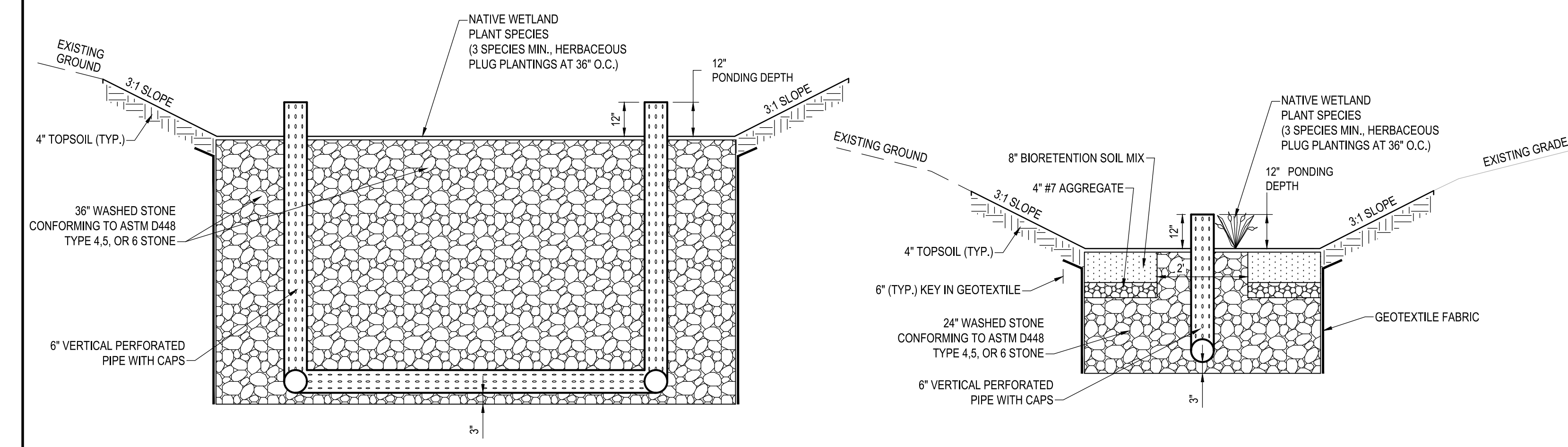
Note: All seed mixes are from Ernst Conservation Seeds, www.ernstseed.com

REVISIONS				APPROVED			
NO.	DESCRIPTION	BY	DATE	DATE	DATE	DATE	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE

SCALE: 1" = 30'	DEALE COMMUNITY PARK STORM WATER MANAGEMENT PART PLAN
DRAWN BY: R.S.S.	
CHECKED BY: R.W.H.	
SHEET NO. 17 OF 34	
PROJECT NO.: P582001	CONTRACT NO.: P582001
ASSISTANT CHIEF ENGINEER	

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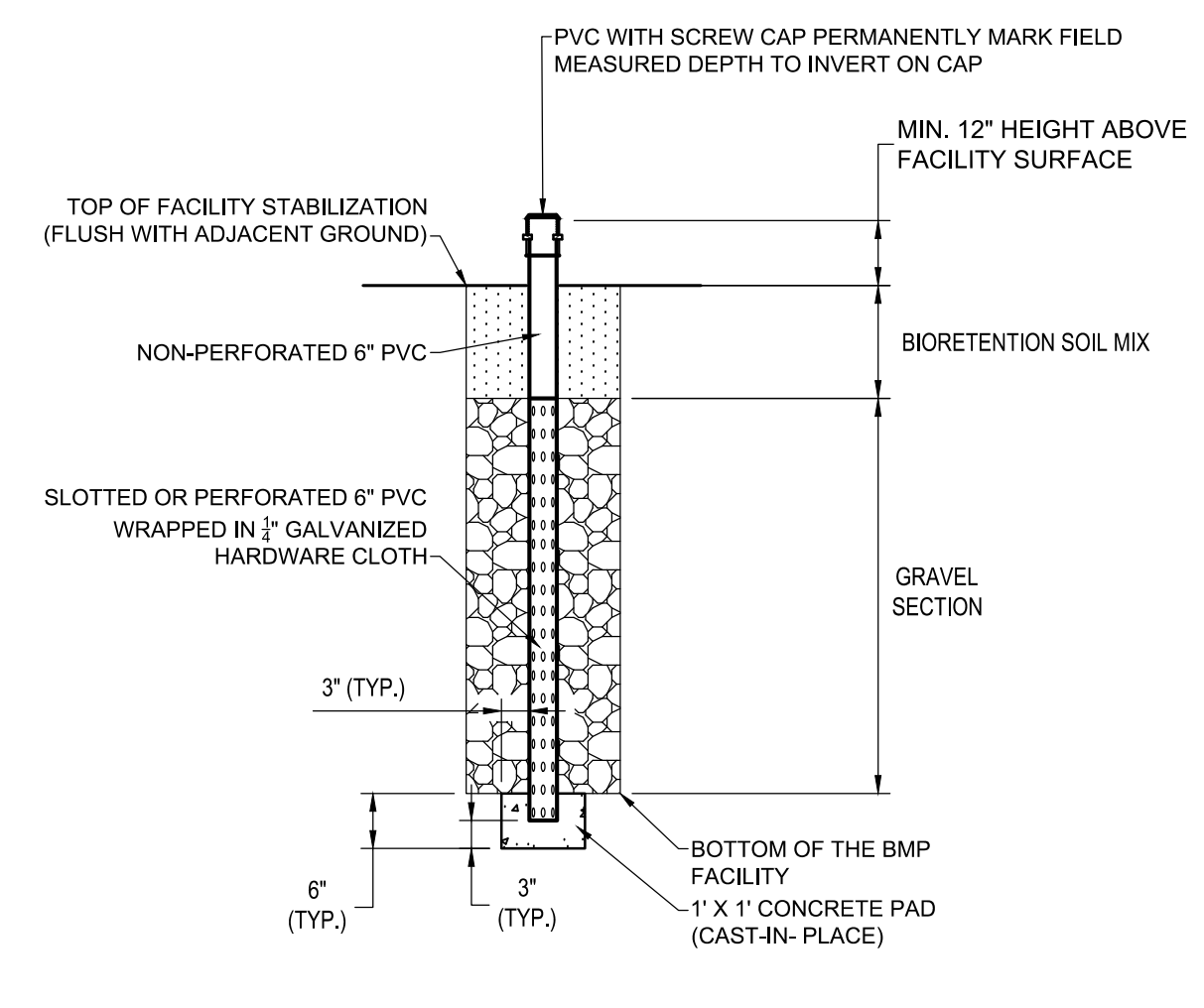


ELEVATION

SECTION

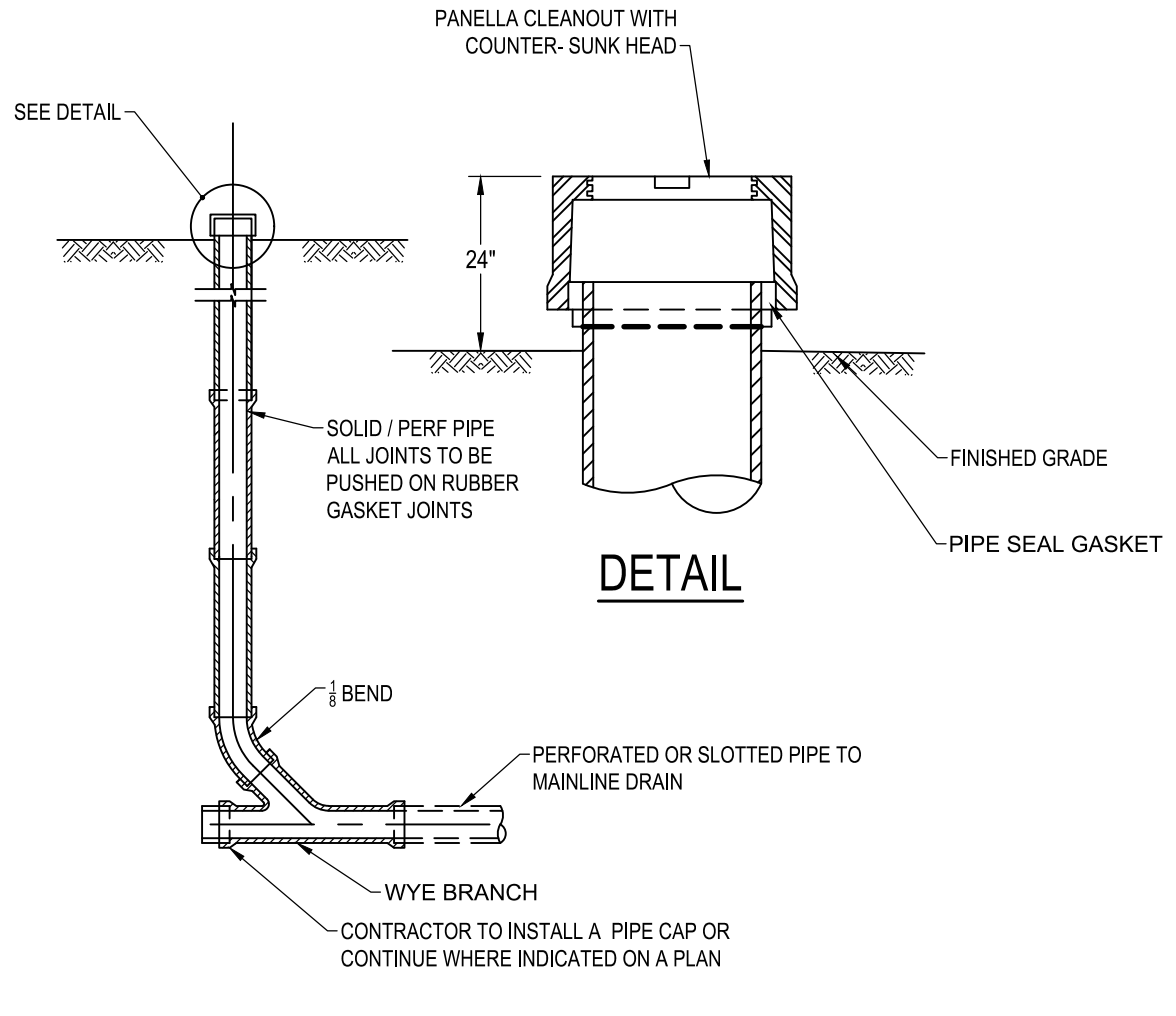
1 SUBMERGED GRAVEL WETLAND INFLOW
NOT TO SCALE

2 SUBMERGED GRAVEL WETLAND INFLOW
NOT TO SCALE



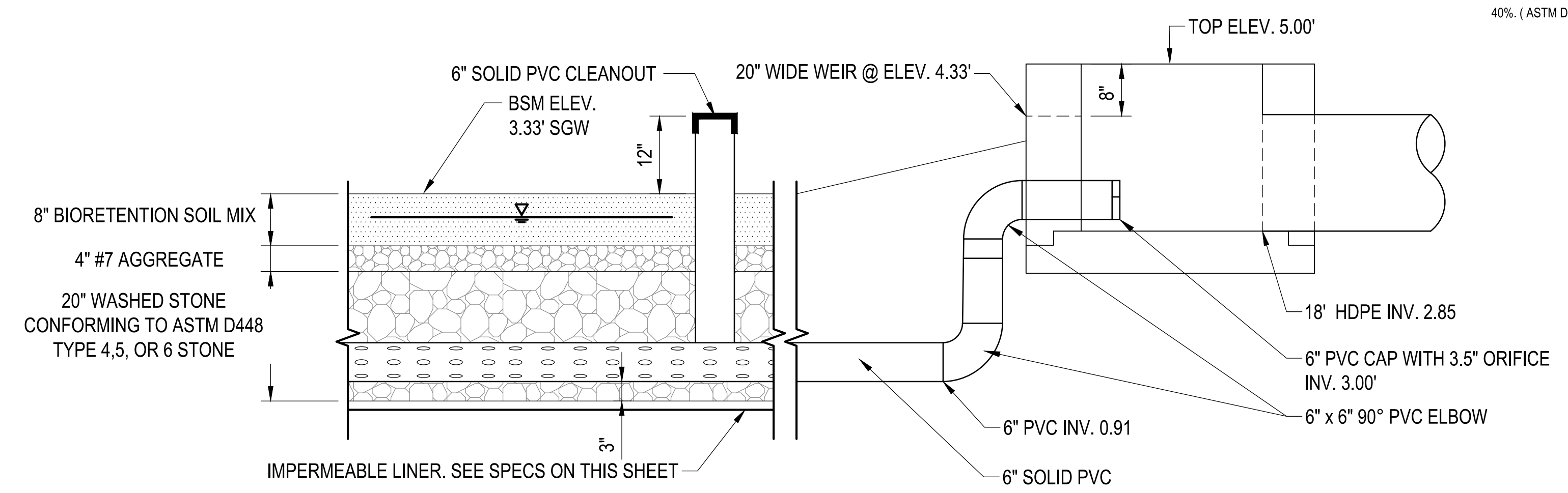
SECTION

3 OBSERVATION WELL
NOT TO SCALE



SECTION

4 CLEANOUT TYPICAL DETAIL
NOT TO SCALE



SECTION

5 RS-1 STRUCTURE OUT OF CELL
SCALE: 1" = 2'

SEQUENCE OF CONSTRUCTION FOR SUBMERGED GRAVEL WETLANDS (M-2) SWM FACILITY

1. THE CONTRACTOR SHALL CALL ANNE ARUNDEL COUNTY DPW, DIVISION OF ENGINEERING AND CONSTRUCTION (410) 222-7800 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION TO SCHEDULE A MEETING AND AN INSPECTION.
2. EXCAVATE FOREBAY, INSTALL GABION WEIR AND OVERFLOW.
3. STABILIZE FOREBAY.
4. INSTALL FOREBAY PLANTINGS AS INDICATED ON PLANS.
5. DEWATER SEDIMENT BASIN AND EXCAVATE FACILITY.
6. PLACE LINER MATERIAL AS INDICATED ON THE PLANS.
7. PLACE STONE IN THE FACILITY AS INDICATED ON THE PLANS. CLEANOUTS MUST BE EXTEND A MINIMUM TWO FEET ABOVE FINISHED GRADE AND BE FURNISHED WITH CAPS THAT CAN BE REMOVED WHEN AND AS NEEDED FOR INSPECTIONS, MAINTENANCE, AND TO CHECK ON WATER LEVELS. STONE IS TO BE WASHED AND SHALL NOT INCLUDE FINE MATERIAL.
8. PLACE WETLAND SOIL AS INDICATED ON THE PLANS.
9. INSTALL PLANTINGS AS INDICATED ON THE PLANS.

SUBMERGED GRAVEL WETLANDS (M-2) INSPECTION, & MAINTENANCE NOTES

INSPECTION:

REGULAR INSPECTIONS SHALL BE MADE DURING THE FOLLOWING STAGES OF CONSTRUCTION:

- DURING EXCAVATION TO SUBGRADE.
- DURING PLACEMENT OF BACKFILL OF PERFORATED INLET PIPE AND OBSERVATION WELLS.
- DURING PLACEMENT OF GEOTEXTILES AND ALL FILTER MEDIA.
- DURING CONSTRUCTION OF ANY APPURTENANT CONVEYANCE SYSTEMS SUCH AS DIVERSION STRUCTURES, INLETS, OUTLETS, AND FLOW DISTRIBUTION STRUCTURES.
- UPON COMPLETION OF FINAL GRADING AND ESTABLISHMENT OF PERMANENT STABILIZATION, AND BEFORE ALLOWING RUNOFF TO ENTER THE WETLAND.

MAINTENANCE CRITERIA:

THE FOLLOWING ITEMS SHOULD BE ADDRESSED TO ENSURE PROPER MAINTENANCE AND LONG-TERM PERFORMANCE OF SUBMERGED GRAVEL WETLANDS:

- PRIVATELY OWNED PRACTICES SHALL HAVE A MAINTENANCE PLAN AND BE PROTECTED BY EASEMENT, DEED RESTORATION, ORDINANCE OR OTHER LEGAL MEASURES PREVENTING ITS NEGLIGENCE, ADVERSE ALTERATION, AND REMOVAL.
- DURING THE FIRST YEAR OF OPERATION, INSPECTIONS SHOULD BE CONDUCTED AFTER EVERY MAJOR STORM AND POORLY ESTABLISHED AREAS REVEGETATED.
- SEDIMENT ACCUMULATION IN THE PRETREATMENT AREAS SHOULD BE REMOVED AS NECESSARY.
- SIGNS OF UNEVEN LOW DISTRIBUTION WITHIN THE WETLAND MAY MEAN THAT THE GRAVEL OF UNDERDRAIN IS CLOGGED. THE GRAVEL AND/OR UNDERDRAIN MAY NEED TO BE REMOVED, CLEANED, AND REPLACED.
- A DENSE STAND OF WETLAND VEGETATION SHOULD BE MAINTAINED THROUGH THE LIFE OF THE FACILITY WITH PLANTINGS REPLACED AS NEEDED.
- INLETS AND OUTLETS TO EACH SUBMERGED GRAVEL WETLAND CELL SHOULD BE FREE FROM DEBRIS TO PREVENT CLOGGING.
- EROSION AT INFLOW POINTS SHOULD BE REPAIRED. FLOW SPLITTERS SHOULD BE FUNCTIONAL TO PREVENT BYPASSING OF THE FACILITY.

CONSTRUCTION CRITERIA:

THE FOLLOWING ITEMS SHOULD BE ADDRESSED DURING THE CONSTRUCTION OF PROJECTS WITH SUBMERGED GRAVEL WETLANDS.

SITE DISTURBANCE

ALL ONSITE DISTURBED AREAS SHOULD BE STABILIZED PRIOR TO ALLOWING RUNOFF TO ENTER THE NEWLY CONSTRUCTED WETLAND.

EROSION AND SEDIMENT CONTROL:

THE PROPOSED LOCATION OF A SUBMERGED GRAVEL WETLAND SHALL BE PROTECTED DURING CONSTRUCTION. SURFACE RUNOFF SHALL BE DIVERTED AWAY FROM THE PRACTICE DURING GRADING OPERATIONS. FLOW SPLITTERS AND OTHER CONVEYANCE INFRASTRUCTURE SHALL BE BLOCKED.

GRAVEL MEDIA

THE AGGREGATE SHALL BE COMPOSED OF AN 18 TO 48 INCH LAYER OF CLEAN WASHED, UNIFORMLY GRADED MATERIAL WITH POROSITY OF 40%. (ASTM D488 #57 / AASHTO M-43 STONE OR EQUAL).

SPECIFICATIONS:

1. SEE CHART BELOW.
2. THE CONTRACTOR SHALL SUBMIT SOIL TEST RESULTS (1 PER 30 CY TOPSOIL) TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. PERFORM SOIL TESTS REQUIRED FOR BOTH IMPROVED SOIL AND REUSED / AMENDED TOP SOIL. SOIL TEST AND RESULTS SHALL INCLUDE AT A MINIMUM: PHOSPHORUS, ORGANIC MATTER, SOLUBLE SALTS, NUTRIENTS, AND TEXTURAL ANALYSIS.
3. PLANT MATERIAL SHALL BE REPRESENTATIVE OF SPECIES AND CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1-2004.

MATERIALS SPECIFICATIONS FOR SUBMERGED GRAVEL WETLANDS

MATERIAL	SPECIFICATION	SIZE	NOTES
PLANTINGS	SEE PLAN SHEET	N/A	PLANTINGS ARE SITE SPECIFIC
BSM	8% BIORETENTION SOIL MIX (BSM) SECTION 920.01.05 ORGANIC CONTENT MIN. 5% BY DRY WEIGHT (ASTM D 2974)	N/A	MARYLAND STATE HIGHWAY ADMINISTRATION STANDARDS SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS DATED MAY 2017 INCLUDING AND ADDENDA THERETO. COPY TO BE KEPT ON-SITE
MULCH	SHREDDED HARDWOOD	N/A	AGED 6 MONTHS, MINIMUM, NO PINE OR WOOD CHIPS
LINER MATERIAL		N/A	NONWOVEN GEOTEXTILE TABLE H.1 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
GRAVEL	AASHTO M-43	NO. 57, 6, OR 67 (3/8" TO 3/4")	
UNDERDRAIN PIPING	F 738 TYPE PS 28 AASHTO M-279 AASHTO M-252	4" TO 6"	SLOTTED OR PERFORATED PIPE. SLOTTED PIPE SHALL HAVE A MINIMUM OPEN AREA OF 1.5 SQ. IN. PER LINEAR FOOT WITH A MAXIMUM SLOT LENGTH OF 2" AND MAXIMUM SLOT WIDTH OF 1/8 INCH. PERFORATED PIPE SHALL BE WRAPPED WITH 1/4 INCH GALVANIZED HARDWARE CLOTH.
STABILIZATION MATING	PERMANENT STABILIZATION MATING NORTH AMERICAN GREEN BROCKET CNVS OR APPROVED EQUAL		AS NOTED ON PLAN / SECTION / DETAILS

MAINTENANCE SCHEDULE:

AFTER CONSTRUCTION COMPLETION AND ACCEPTANCE OF THE WORK, INSPECTION AND MAINTENANCE SHALL BE THE RESPONSIBILITY OF ANNE ARUNDEL COUNTY.

STORMWATER MAINTENANCE SCHEDULE SUBMERGED GRAVEL WETLANDS

INSPECTION ITEM	FREQUENCY OF INSPECTION	INSPECTION REQUIREMENTS	REMEDIAL ACTION
GRAVEL WETLAND CELLS	SEASONALLY AND AFTER A MAJOR STORM		
VEGETATION	SEASONALLY AND AFTER A MAJOR STORM	FACILITY MUST DEWATER WITHIN 48 HOURS OF RAINFALL. NOTICE OF CORRECT STANDING WATER ON THE FILTER SURFACE OR AT THE OUTLET, OR THE PRESENCE OF ALGAE OR AQUATIC VEGETATION ARE INDICATORS OF ANAEROBIC CONDITIONS AND INADEQUATE DEWATERING OF THE FACILITY.	THE TOP THREE INCHES OF SOIL SHOULD BE REMOVED AND REPLACED WITH SOIL MATERIAL AS PER PLAN SPECIFICATIONS. FOLLOW UP INSPECTIONS MUST CONFIRM ADEQUATE DEWATERING. IF THE FACILITY DOES NOT FUNCTION AS INTENDED AFTER THE ABOVE ACTION, THE ENTIRE FILTER AND UNDERDRAIN SYSTEM MAY NEED MAINTENANCE. MDE APPROVAL MAY BE NECESSARY.
MULCH LAYER	SEASONALLY AND AFTER A MAJOR STORM	CHECK MULCH FOR ADEQUATE COVER, SEDIMENT ACCUMULATION, OR DISCOLORATION.	REPLACE AND REMOVE OLD MULCH AND EXCESS SEDIMENTS. PROVIDE ADEQUATE MULCH COVER ACCORDING TO APPROVED DESIGN.
VEGETATIVE SURFACES	MONTHLY		
PLANT COMPOSITION AND HEALTH	MONTHLY	COMPARE PLANT COMPOSITION WITH APPROVED PLANS. CHECK FOR INVASIVE SPECIES OR WEEDS. CHECK FOR DEAD OR DYING VEGETATION.	REMOVE AND REPLACE PLANTS IN ACCORDANCE WITH PLAN SPECIFICATIONS.
VEGETATIVE COVER AND EROSION	MONTHLY	CHECK FOR EVIDENCE OF EROSION, RUNOFF CHANNELING, OR BARE SPOTS.	RE-SEED OR RE-PLANT IN ACCORDANCE WITH APPROVED LANDSCAPING PLANS. RESEEDING MAY BE REQUIRED WHEN CONCENTRATED FLOW CAUSES RILLS OR GULLYING THROUGH THE FACILITY.
DEBRIS AND TRASH CLEANOUT	MONTHLY	CHECK THAT THE FACILITY IS CLEAN OF TRASH AND DEBRIS. INLETS, OUTLETS, AND CONTRIBUTING AREAS AROUND THE FACILITY MUST BE CHECKED.	TRASH AND DEBRIS MUST BE DISPOSED OF IN AN ACCEPTABLE MANNER ACCORDING TO CURRENT REGULATIONS.
STRUCTURAL COMPONENTS	ANNUALLY	CHECK FOR EVIDENCE OF STRUCTURAL DETERIORATION, SPALLING, OR CRACKING. INLET AND OUTLET STRUCTURES MUST BE IN GOOD CONDITION.	REPAIR TO GOOD CONDITION ACCORDING TO SPECIFICATIONS ON THE APPROVED PLANS.
OUTLETS		CHECK FOR EVIDENCE OF EROSION, RILLS, OR GULLYING.	STABILIZE ALL ERODED AREAS AND GRADE TO PROVIDE STABLE CONVEYANCE.
	SEASONALLY AND AFTER A MAJOR STORM	RIPRAP OUTLET MUST BE MAINTAINED IN GOOD FUNCTIONAL CONDITION.	REPAIR ACCORDING TO APPROVED PLAN.
PRETREATMENT			
SEDIMENT ACCUMULATION	SEASONALLY AND AFTER A MAJOR STORM	CHECK FOR SEDIMENT ACCUMULATION.	WHEN SEDIMENT ACCUMULATIONS TO A DEPTH OF ONE HALF THE DESIGN PONDING DEPTH OR COVERS MORE THAN 50% OF THE AREA, SEDIMENT MUST BE REMOVED AND THE FACILITY RESTORED ACCORDING TO THE APPROVED DESIGN.
GRASS CHANNEL CONVEYANCE SYSTEMS		CHECK FOR EROSION, FLOW BLOCKAGES, AND STABLE CONVEYANCE.	STABILIZE AND GRADE ACCORDING TO APPROVED PLAN.
OVERALL FUNCTION OF THE FACILITY	ANNUALLY	CHECK THAT FLOW SPLITTERS ARE FUNCTIONING AS DESIGNED AND THAT BYPASS IS OPERATING AS DESIGNED.	CONSTRUCTION MUST BE IN ACCORDANCE WITH APPROVED PLANS.

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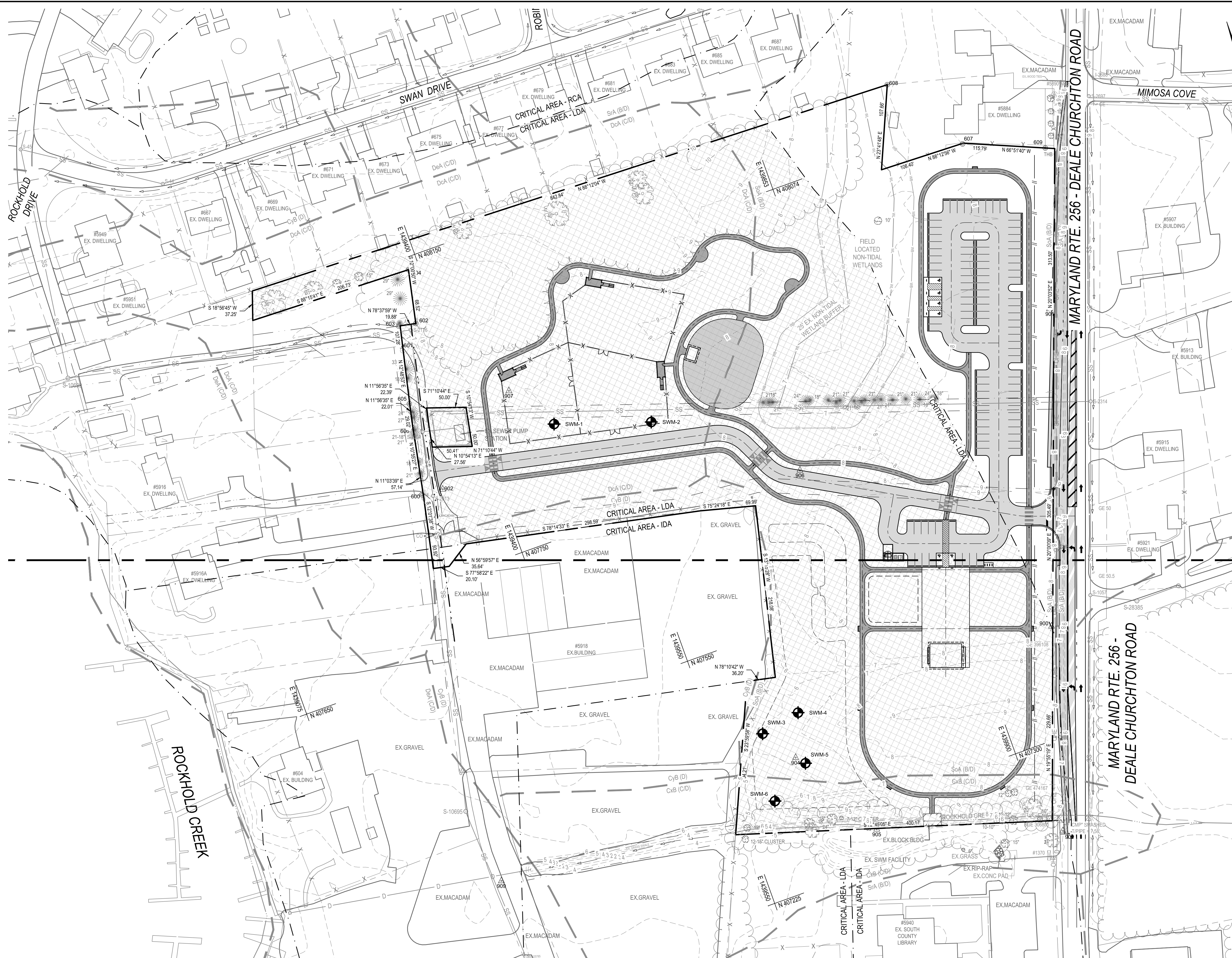
ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: AS SHOWN
CHIEF ENGINEER	PROJECT MANAGER	DRAWN BY: R.S.S.
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: R.W.H.
ASSISTANT CHIEF ENGINEER	CHIEF, RIGHT-OF-WAY	SHEET NO. 18 OF 34
		PROJECT NO.: P582001
		CONTRACT NO.: P582001

DEALE COMMUNITY PARK
STORM WATER MANAGEMENT
DETAILS

P:\2017\17141805\Drawings\07-17141805-CAP-Critical Area Plan.dwg Feb 08, 2023 - 2:19pm Plot By: rsm1th

CAUTION:
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DESCRIPTION	EXISTING	NEW
BUILDING	EX. BLDG	
BITUMINOUS CONCRETE PAVING	EX. MACADAM	
PORTLAND CEMENT CONCRETE	EX. CONC.	
BITUMINOUS CONCRETE MILL & OVERLAY	EX. MACADAM	
BITUMINOUS CONCRETE PEDESTRIAN WALK		
DECIDUOUS / EVERGREEN TREES		
CLEAN OUT		
DRAIN INLET		
ELECTRIC MH		
FIRE HYDRANT		
GAS VALVE		
HAND BOX		
INLET MH		
UTILITY POLE		
SANITARY MH		
SIGN (ONE-POST)		
STORM DRAIN MH		
STREET LIGHT		
TRAVERSE STATION		
WATER MH		
WATER VALVE		
SPOT ELEVATION		
MAJOR CONTOUR		
MINOR CONTOUR		
WALL		
CONC. CURB		
SURVEY LIMITS		
FENCE LINE		
O/H ELECTRIC		
U/G ELECTRIC		
U/G GAS		
U/G SANITARY		
U/G STORM		
U/G WATER		
U/G TELEPHONE		
SOIL BORING		
LIMIT OF DISTURBANCE		
SOIL LINES		
CRITICAL AREA - LDA		

AREA DESCRIPTION	AREA SF	AREA ACRES
TOTAL PROPERTY AREA (SF)	524,224	12.03
PORTION OF PROPERTY WITHIN CRITICAL AREA (LDA)	421,833	9.68
PORTION OF PROPERTY OUTSIDE CRITICAL AREA	102,391	2.35
EXISTING ROADS TO REMAIN (SF)	4,215	0.10
PROPOSED VEHICULAR PAVING (SF)	23,273	0.53
PROPOSED PEDESTRIAN PAVING (SF)	27,169	0.62
PROPOSED PLAYGROUND AREA	9,000	0.21
LOT COVERAGE AREA (SF)	63,657	1.46
LOT COVERAGE PERCENTAGE	15%	

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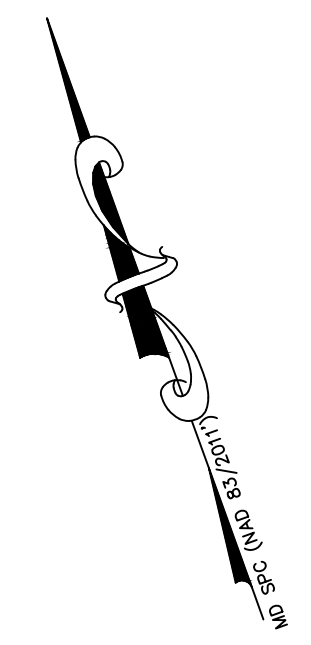
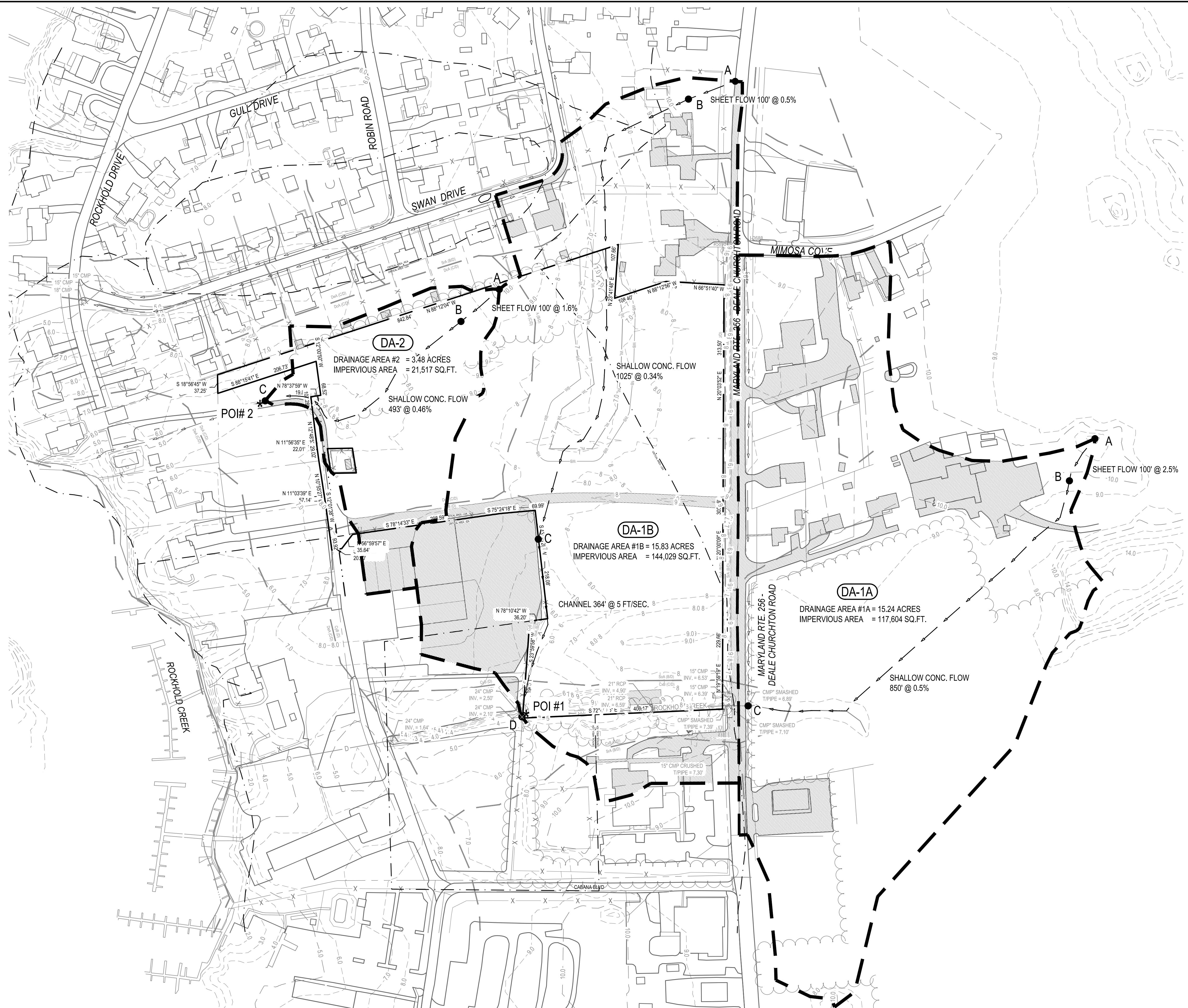
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SCALE: 1" = 60'	DEALE COMMUNITY PARK CRITICAL AREA PLAN
DRAWN BY: R.S.S.	
CHECKED BY: R.W.H.	
SHEET NO. 19 OF 34	
PROJECT NO.: P582001	CRITICAL AREA PLAN
CONTRACT NO.: P582001	

P:\2017\17141805\Drawings\07-17141805-EX04-Existing Drainage Area Map.dwg Feb 08, 2023 8:36am Plot By: rsmith



LEGEND

- EXISTING CONTOUR: 10, 9
- SOILS TYPES: C/B (C/D), S/A (B/D)
- TG PATH: A, B
- DRAINAGE BOUNDARY: [Dashed line symbol]
- POINT OF INTEREST: * POI#
- IMPERVIOUS AREA: [Hatched area symbol]

Existing	DA-1A	Open Space	Woods	Impervious
Sq.ft.	663,854	241,783	304,467	117,604
Acres	15.24	5.55	6.99	2.70
Existing	DA-1B	Open Space	Woods	Impervious
Sq.ft.	689,555	519,980	25,546	144,029
Acres	15.83	11.94	0.59	3.31
Existing	DA-2	Open Space	Woods	Impervious
Sq.ft.	151,589	77,458	52,614	21,517
Acres	3.48	1.78	1.21	0.49

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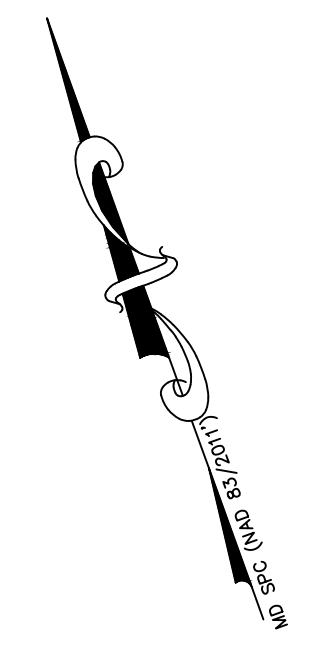
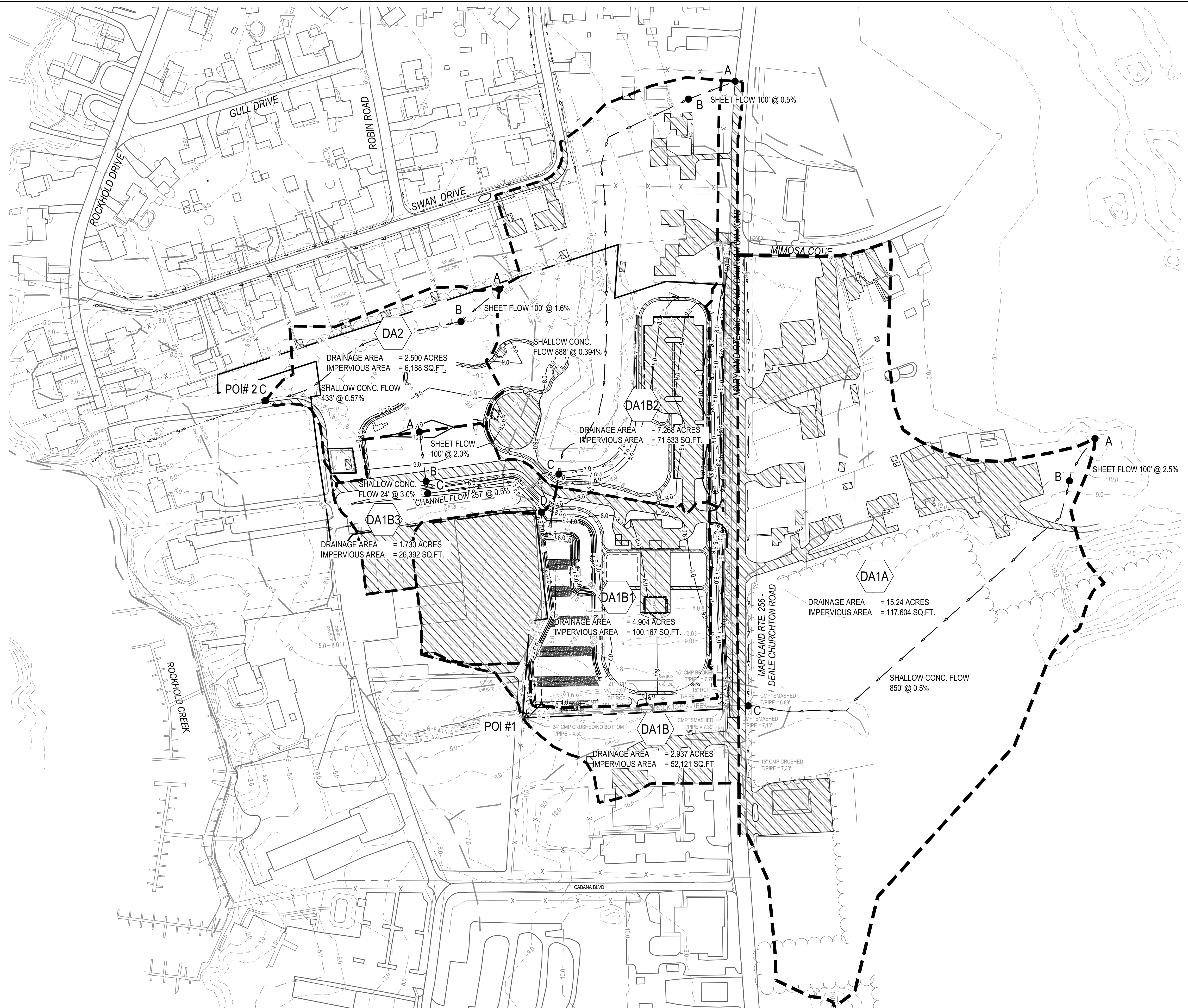
REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: 1" = 100'	DEALE COMMUNITY PARK
CHIEF ENGINEER _____	PROJECT MANAGER _____	DRAWN BY: R.S.S.	
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: R.W.H.	EXISTING DRAINAGE AREA MAP
ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT-OF-WAY _____	SHEET NO. 20 OF 34	
		PROJECT NO.: P582001	
		CONTRACT NO.: P582001	

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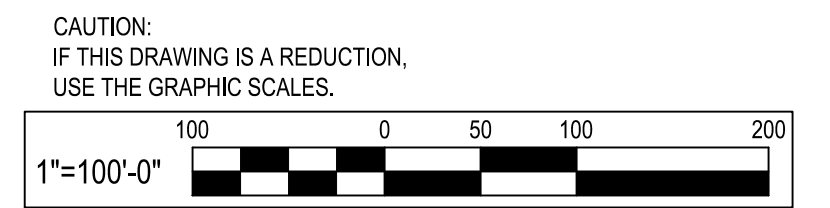
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LEGEND

EXISTING CONTOUR	--- 10 --- 9
PROPOSED CONTOUR	--- 10 --- 9
SOILS TYPES	CxS (C/D) S/A (B/D)
TG PATH	A → B
DRAINAGE BOUNDARY	--- A --- B
POINT OF INTEREST	* POI#
IMPERVIOUS AREA	[Hatched Box]

Proposed	DA-1A	Open Space	Woods	Impervious
Sq.ft.	663,854	241,783	304,467	117,604
Acres	15.24	5.55	6.99	2.70
Proposed	DA-1B	Open Space	Woods	Impervious
Sq.ft.	127,936	75,815	0	52,121
Acres	2.94	1.74	0.00	1.20
Proposed	DA-1B1	Open Space	Woods	Impervious
Sq.ft.	213,618	113,451	0	100,167
Acres	4.90	2.60	0.00	2.30
Proposed	DA-1B2	Open Space	Woods	Impervious
Sq.ft.	316,594	229,466	15,595	71,533
Acres	7.27	5.27	0.36	1.64
Proposed	DA-1B3	Open Space	Woods	Impervious
Sq.ft.	75,359	48,967	0	26,392
Acres	1.73	1.12	0.00	0.61
Proposed	DA-2	Open Space	Woods	Impervious
Sq.ft.	108,900	80,035	22,677	6,188
Acres	2.50	1.84	0.52	0.14



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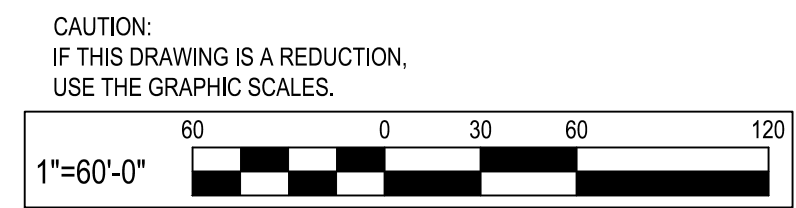
APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: 1" = 100'	DEALE COMMUNITY PARK
CHIEF ENGINEER _____	PROJECT MANAGER _____	DRAWN BY: R.S.S.	
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: R.W.H.	
ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT-OF-WAY _____	SHEET NO. 21 OF 34	PROPOSED DRAINAGE AREA MAP
		PROJECT NO.: P582001	
		CONTRACT NO.: P582001	

P:\2017\17141805\Drawings\07-Site\17141805-WQ-Water Quality Map.dwg Feb 08, 2023 8:39am Plot By: rsmith



LEGEND:

14,395 SQ.FT.		REMOVAL OF IMPERVIOUS AREA
174,407 SQ.FT.		NEW IMPERVIOUS AREA
11,264 SQ.FT.		REDEVELOPMENT OF IMPERVIOUS AREA
176,113 SQ.FT.		PERVIOUS TO REMAIN
376,179 SQ.FT.		LIMITS OF DISTURBANCE




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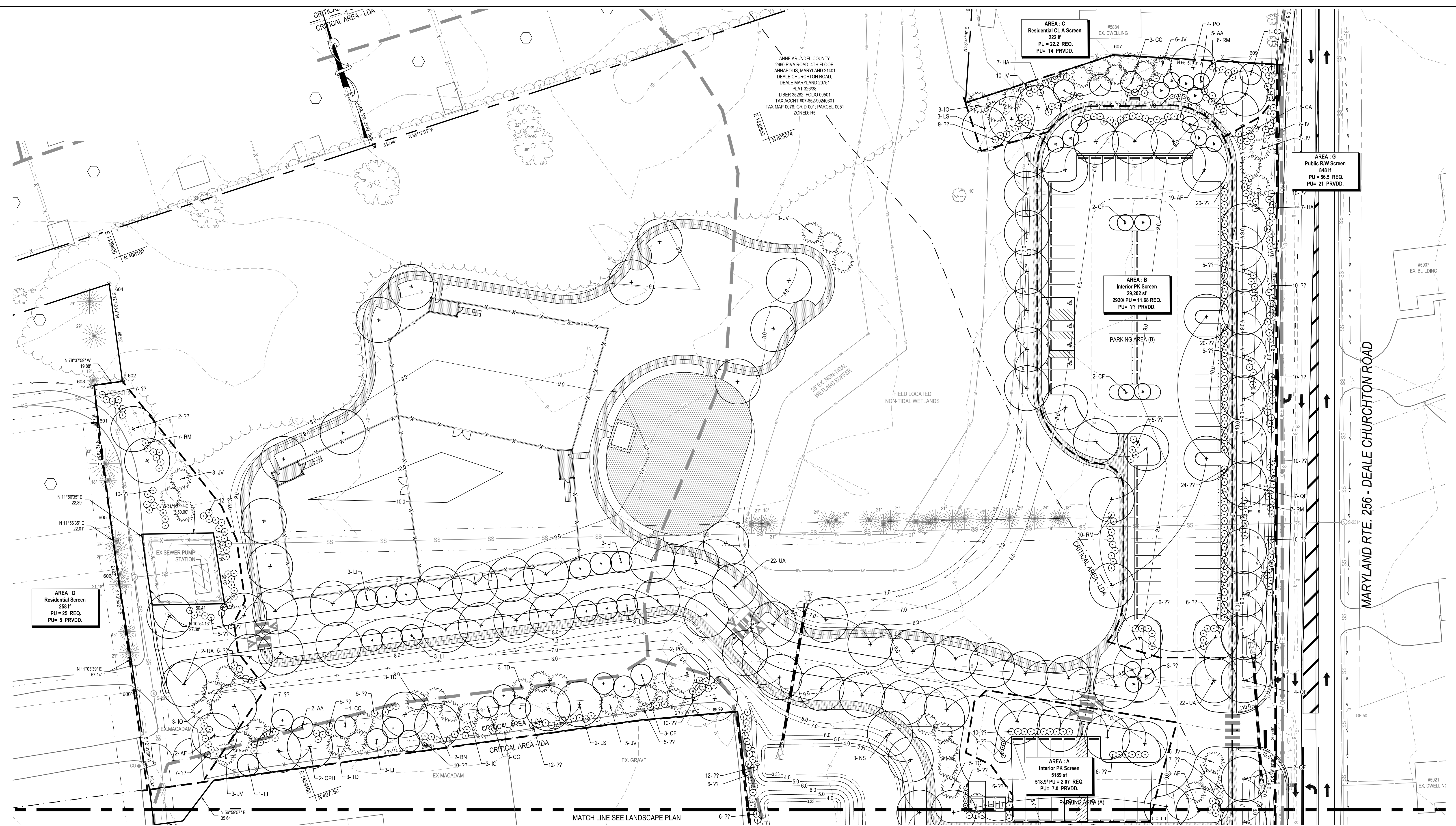
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APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	
SCALE: 1" = 60'		DRAWN BY: R.S.S.	
CHECKED BY: R.W.H.		SHEET NO. 22 OF 34	
PROJECT NO.: P582001		CONTRACT NO.: P582001	
DEALE COMMUNITY PARK			
WATER QUALITY MAP			

P:\2017\17141805\Drawings\07-Site\17141805-C601-Landscape Plan.dwg Feb 08, 2023 8:41am Plot By: resmith



AREA : D
Residential Screen
2581
PU = 25 REQ.
PU = 5 PRVDD.

AREA : C
Residential CL A Screen
222 If
PU = 22.2 REQ.
PU = 14 PRVDD.

AREA : B
Interior PK Screen
29,202 sf
2920 PU = 11.88 REQ.
PU = ?? PRVDD.

AREA : G
Public RW Screen
348 If
PU = 56.5 REQ.
PU = 21 PRVDD.

AREA : A
Interior PK Screen
5189 sf
518.9 PU = 2.07 REQ.
PU = 7.0 PRVDD.

PLANTING LEGEND

	TREES
	SHRUB
	EVERGREEN TREES
	EXISTING TREES TO REMAIN
	LIMITS OF DISTURBANCE
	FENCE
	TREE PROTECTION FENCE

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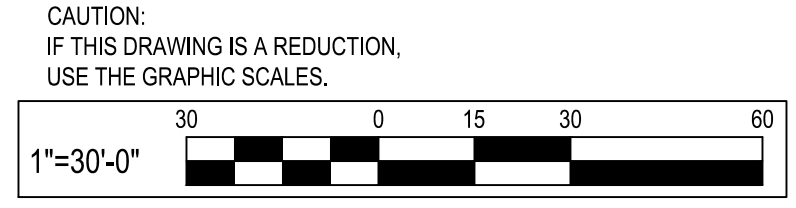
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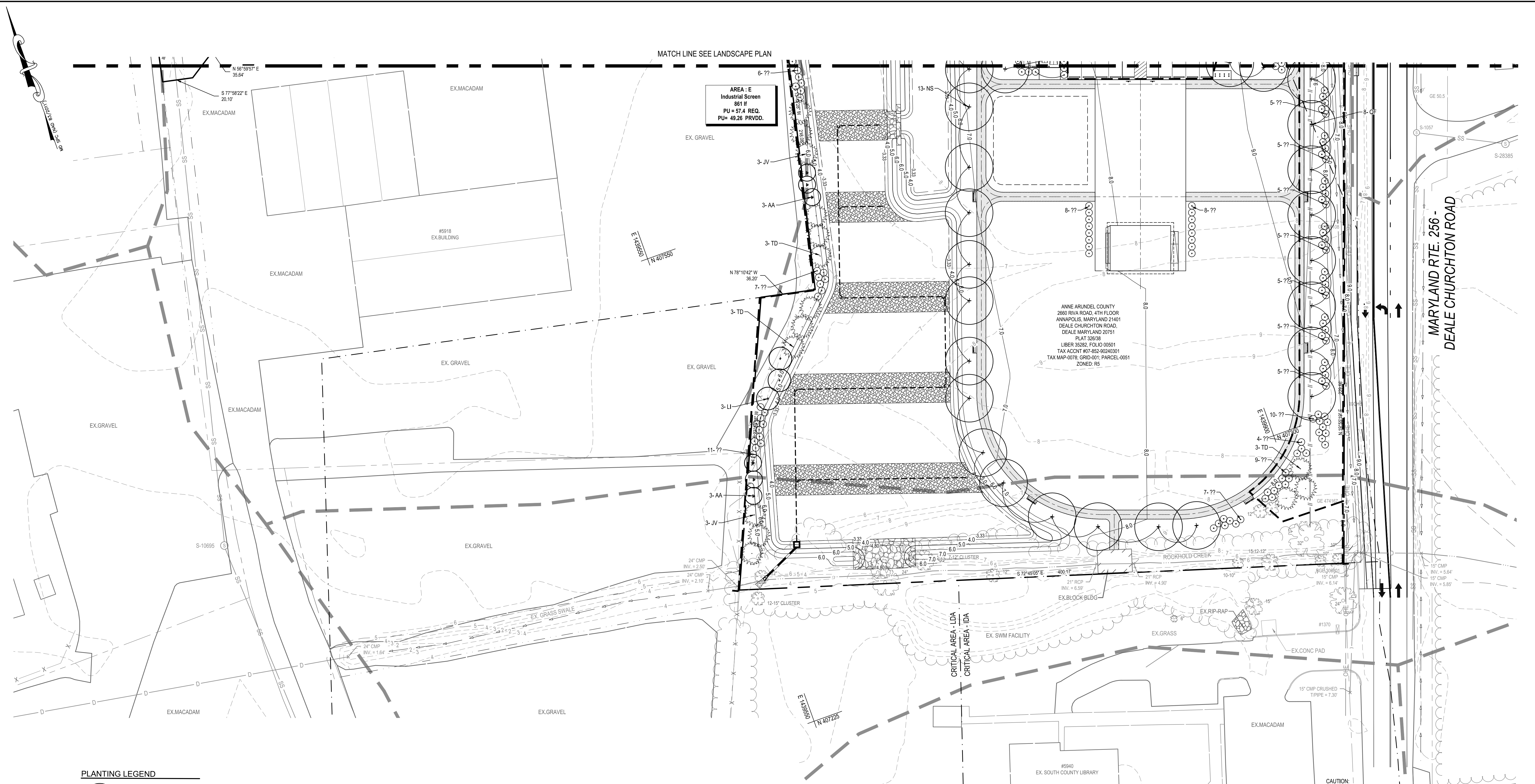
ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: 1" = 30'
CHIEF ENGINEER	PROJECT MANAGER	DRAWN BY: R.S.S.
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: R.W.H.
ASSISTANT CHIEF ENGINEER	CHIEF, RIGHT-OF-WAY	SHEET NO. 23 OF 34
		PROJECT NO.: P582001
		CONTRACT NO.: P582001

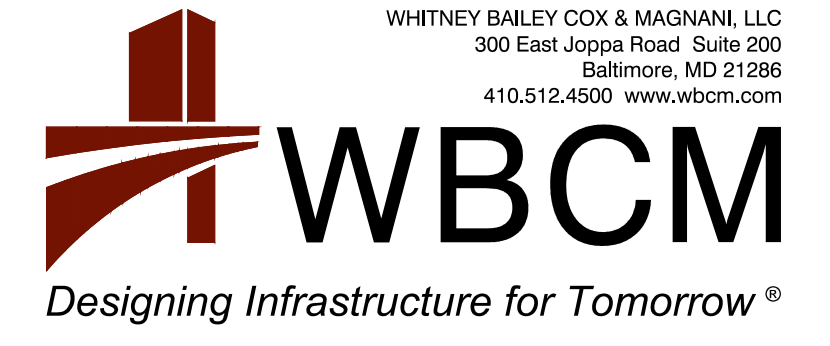
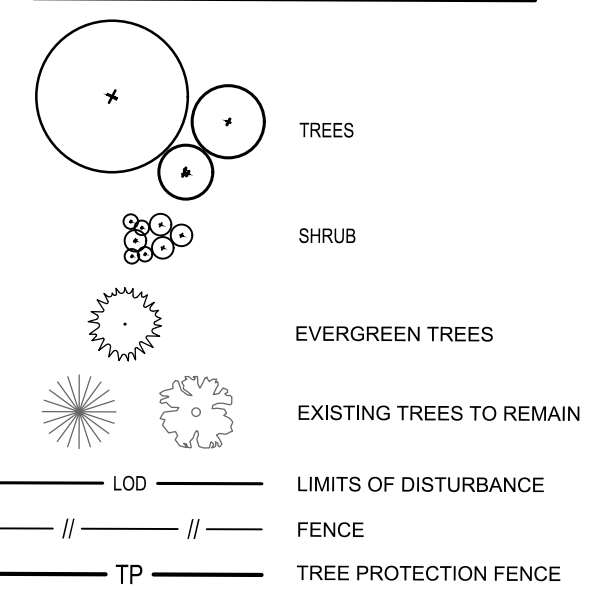
DEALE COMMUNITY PARK
LANDSCAPE PLAN



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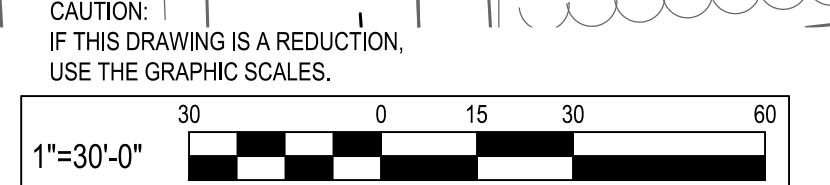
PLANTING LEGEND

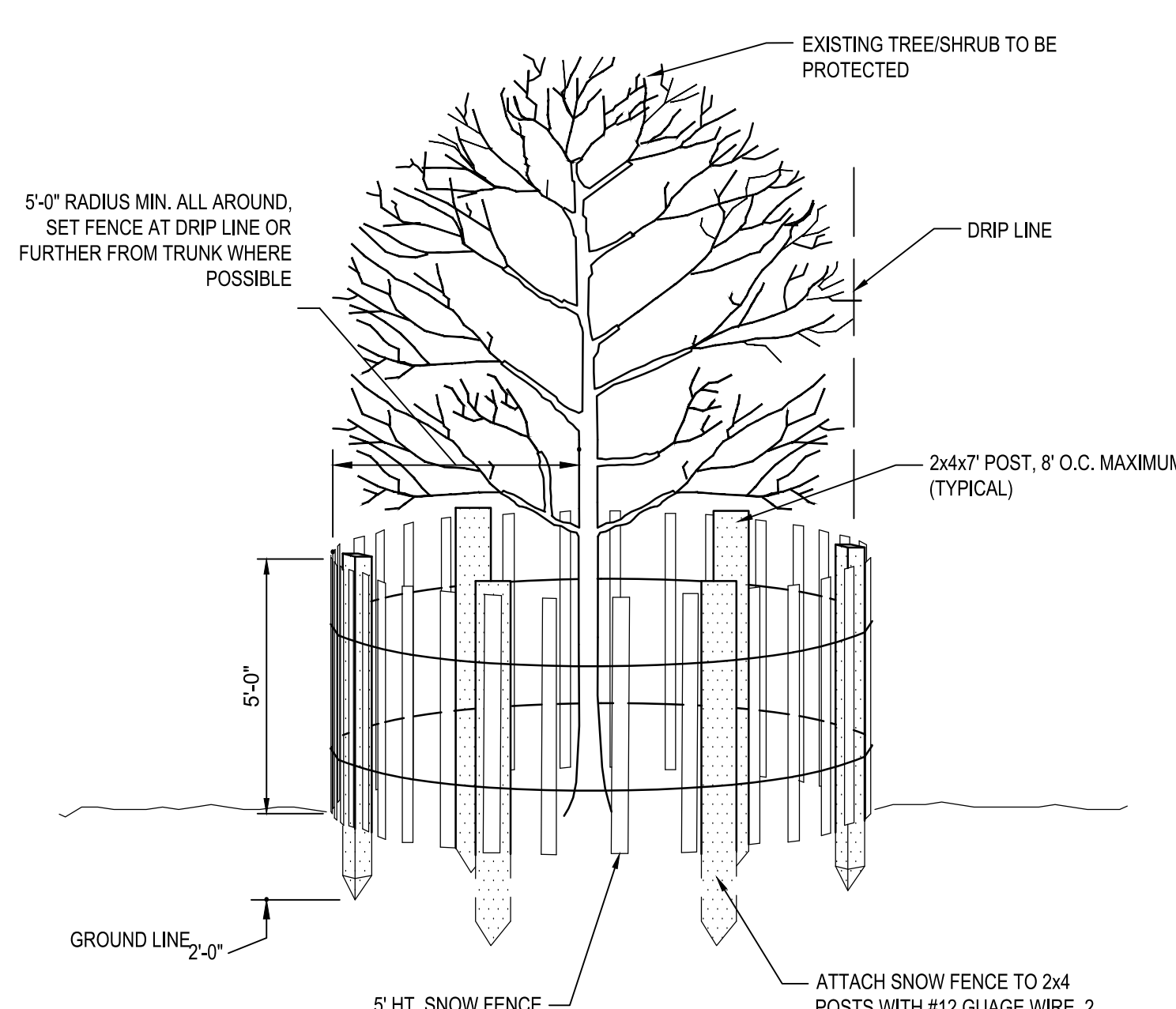


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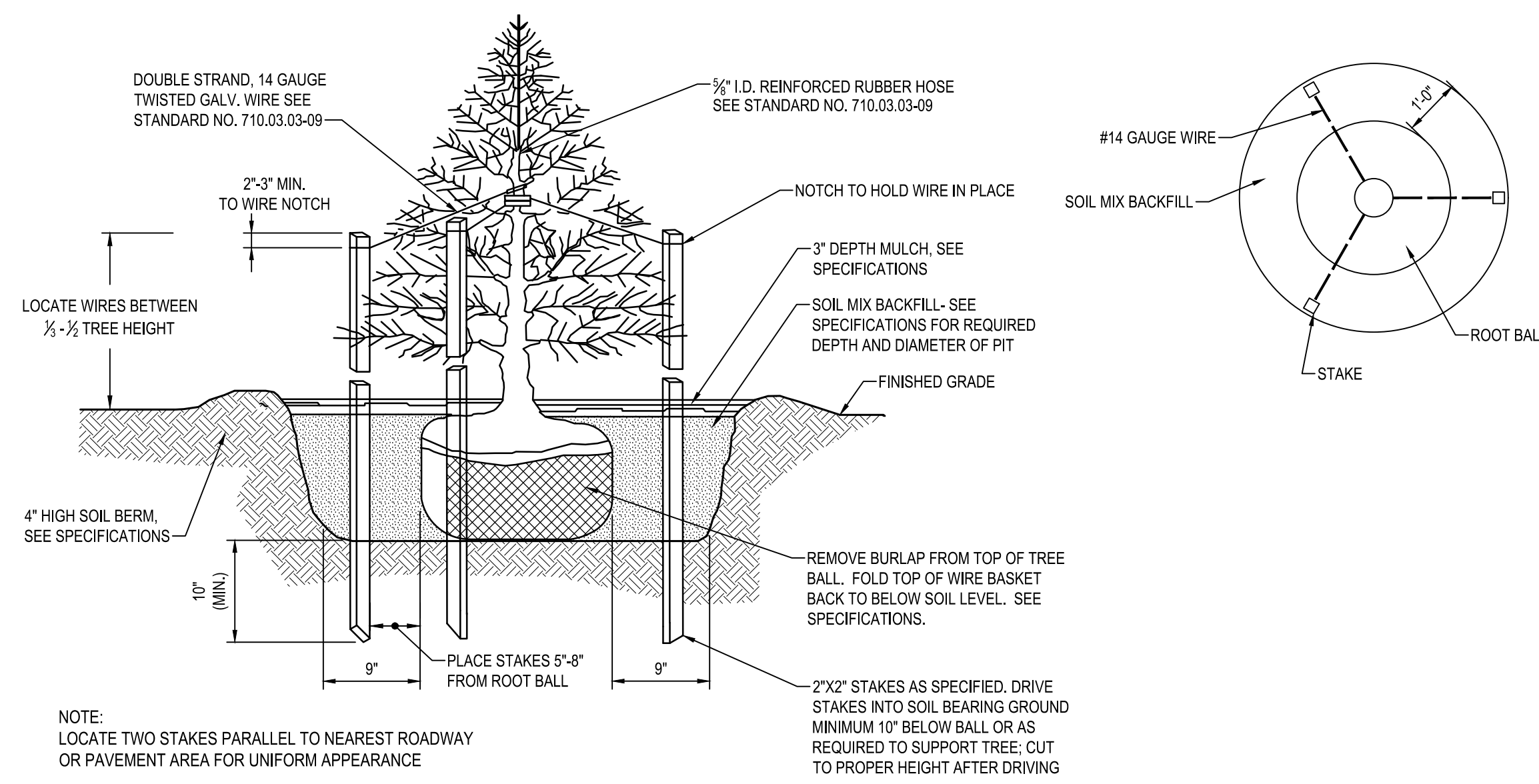
REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	
SCALE: 1" = 30'		DRAWN BY: R.S.S.	
CHECKED BY: R.W.H.		SHEET NO. 24 OF 34	
PROJECT NO.: P582001		CONTRACT NO.: P582001	
DEALE COMMUNITY PARK			
LANDSCAPE PLAN			

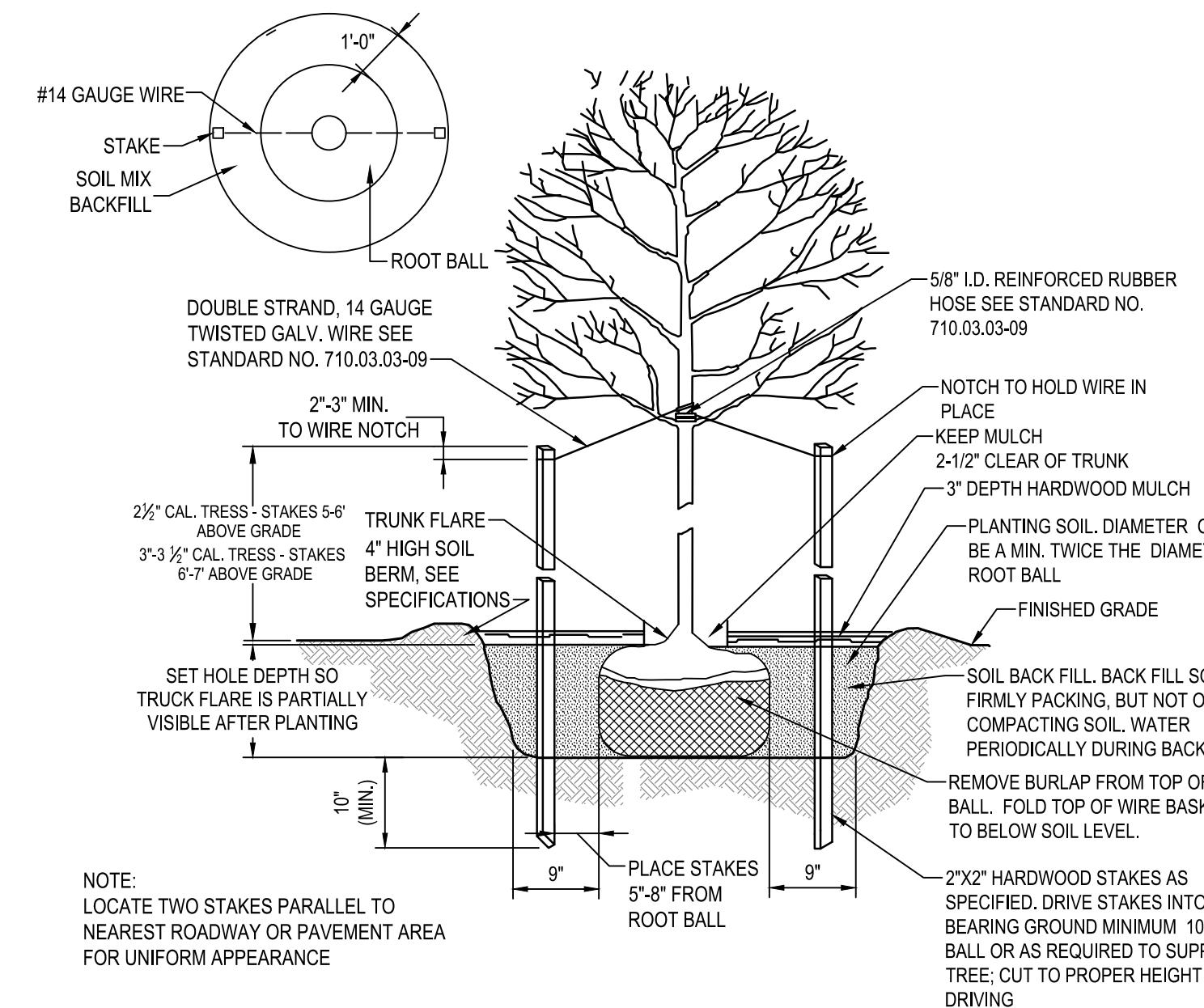




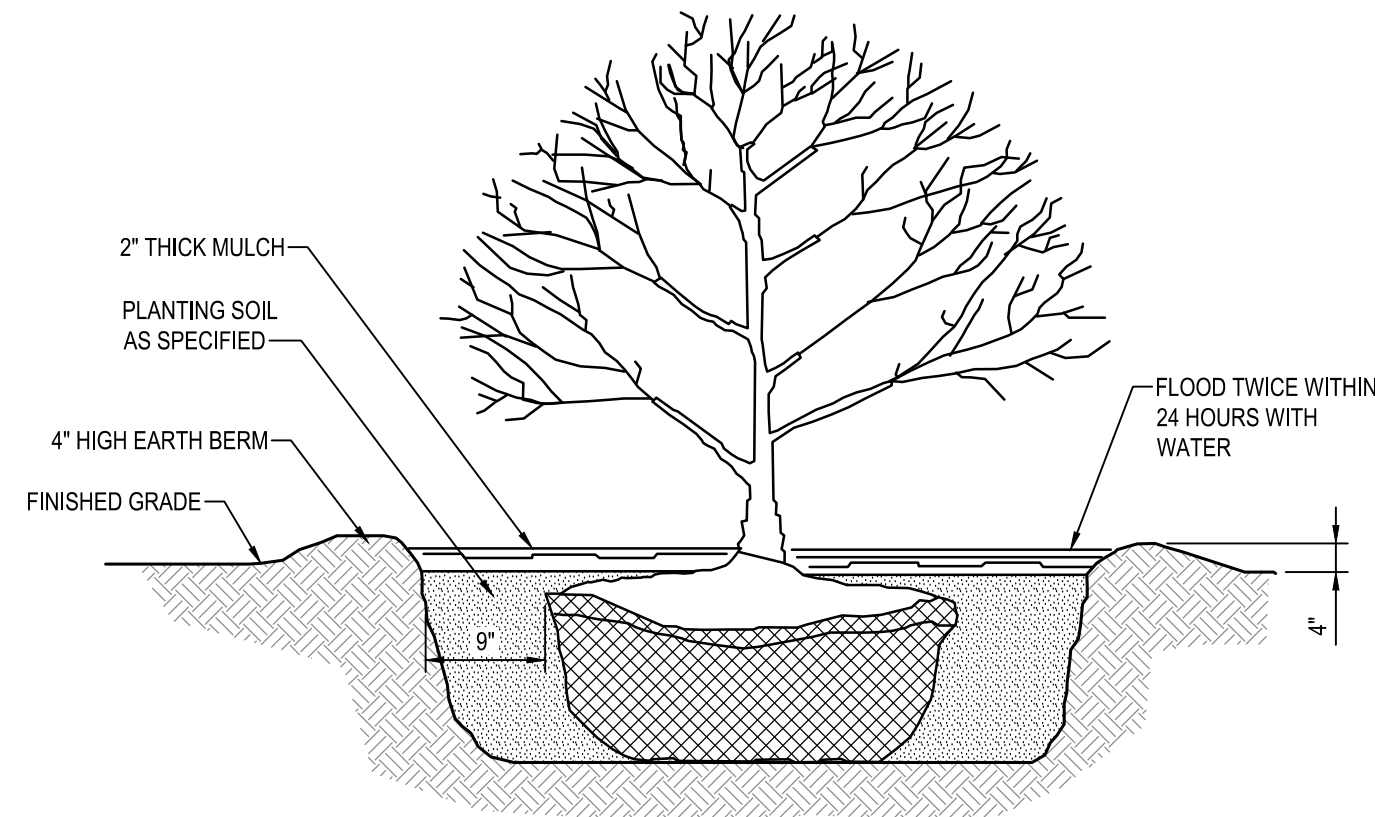
TREE PROTECTION
NOT TO SCALE



EVERGREEN TREE
NOT TO SCALE



DECIDUOUS TREE
NOT TO SCALE



SHRUB
NOT TO SCALE

PLANTING UNITS REQUIREMENTS			
Key	Condition	Required Planting Units	Proposed Planting Units
A	Condition A Interior Parking Lot A	10% of Interior to be landscaped	(1 Major Tree 3 Shrubs) = 4.0 PU
		1 PU / 250 SF	(3 LG shrubs) = 3.0 PU
		5189 x 10% = 518.9 SF parking	
		Total Required = 2.07 PU	Total Provided = 7.0 PU
B	Condition A Interior Parking Lot B	10% of Interior to be landscaped	(1 Major Tree 3 Shrubs) = 12PU
		1 PU / 250 SF	(2 Minor Trees 5 Shrubs) = 5 PU
		29,202 x 10% = 2,920.2 SF to be landscaped	(3 LG shrubs) = 6.6 PU
		Total Required = 11.68 PU	Total Provided = 23.6 PU
C	Condition A Residential Screening NORTH PL Residence	1 Per 10 LF	(1 Major Tree 3 Shrubs) = 7 PU
		222 LF / 10 = 22.2	(2 Minor Trees 5 Shrubs) = 4.5 PU
			(3 Evergreens) = 3.0 PU
		Total Required = 22.2 PU	Total Provided = 20.5 PU
D	Condition A Residential Screening WEST PL Residence	1 Per 10 LF	(1 Major Tree 3 Shrubs) = 3 PU
		258 LF / 10 = 25.8	(2 Minor Trees 5 Shrubs) = 0 PU
			(3 Evergreens) = 2.0 PU
		Total Required = 25.8 PU	Total Provided = 23.0 PU
F	Condition A Industry Screening WEST PL @ Marina	1 Per 15 LF	(1 Major Tree 3 Shrubs) = 8 PU
		861 LF / 15 = 57.4	(2 Minor Trees 5 Shrubs) = 10.5 PU
			(3 Evergreens) = 8.6 PU
		Total Required = 57.3 PU	Total Provided = 49.26 PU
G	Condition A ROAD R/W EAST PL @ ROAD	1 Per 15 LF	(1 Major Tree 3 Shrubs) = 20 PU
		849 LF / 15 = 56.6	(3 Evergreens) = 2.0 PU
			(3 LG shrubs) = 27.6 PU
		Total Required = 56.6 PU	Total Provided = 49.6 PU
H	Condition A INTERIOR AREAS INTERIOR PLANTINGS	1 Per ?? LF	(1 Major Tree 3 Shrubs) = 79 PU
		000LF / 15 = 000	(2 Minor Trees 5 Shrubs) = 7.5 PU
			(3 Evergreens) = 3.6 PU
		Total Required = 00.0 PU	Total Provided = 139.8 PU
I	Condition A Dumpster Screening Parking Lot B	1 Per 15 LF	(1 Major Tree 3 Shrubs) = 1 PU
		32 LF / 15 = 2.13	(3 LG shrubs) = 2.0 PU
		Total Required = 2.13 PU	Total Provided = 3.0 PU
		Total Required = 177.23 PU	Total Provided = 161.2 PU

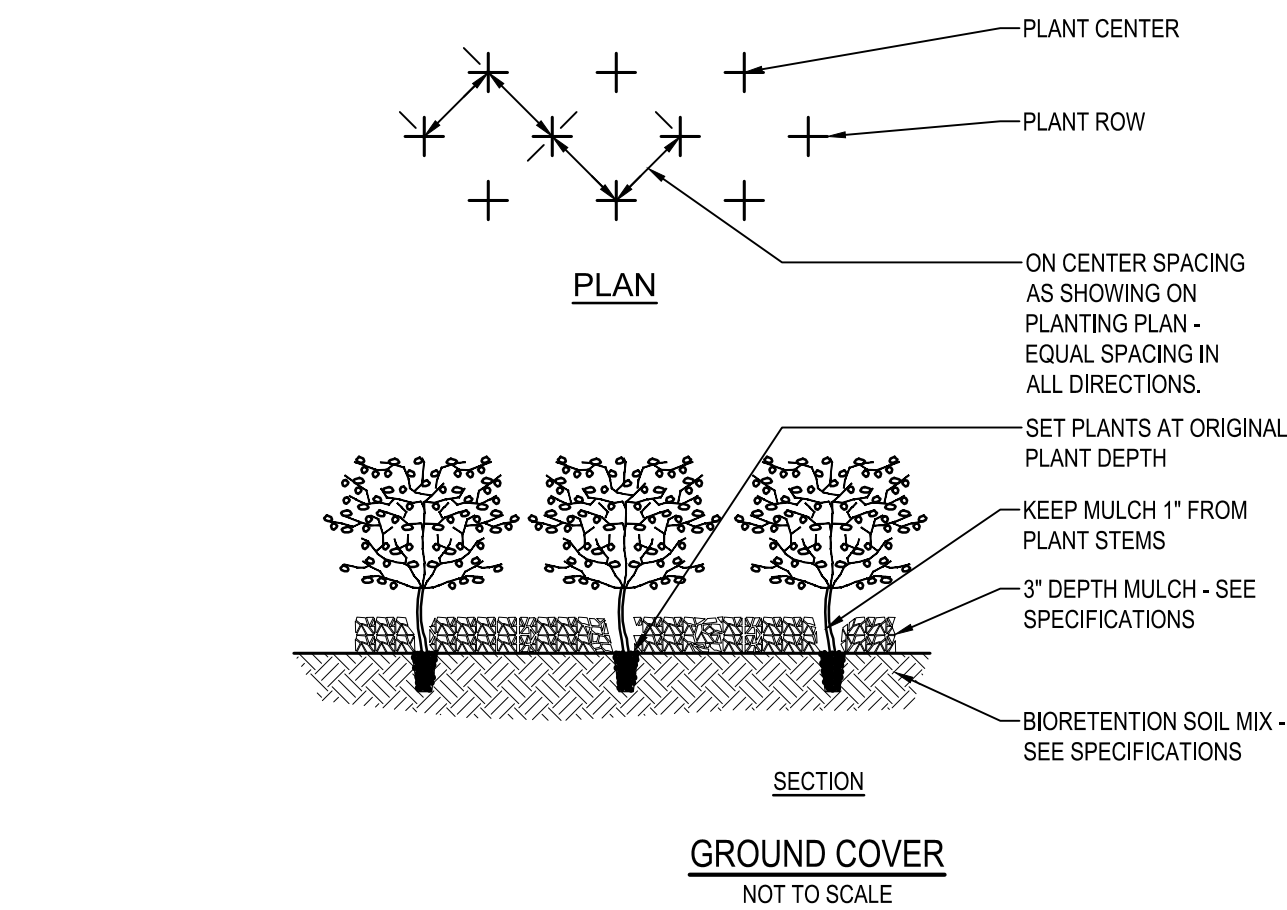
PLANT SCHEDULE						
Qty.	SYM.	Botanical Name	Common Name	Size (Min.)	Root	Remarks
Major Deciduous Trees						
	AF	Acer x freemanii 'Jeffersred'	Autumn Blaze; Freeman Maple	2.5" Cal.	B&B	As Shown
	BN	Betula nigra	River birch	2.5" Cal.	B&B	As Shown
	LS	Liquidambar styraciflua	Sweet gum	2.5" Cal.	B&B	As Shown
	NS	Nyssa sylvatica 'Wildfire'	Black Tupelo	2.5" Cal.	B&B	As Shown
	PO	Platanus occidentalis	American sycamore	2.5" Cal.	B&B	As Shown
	QF	Quercus falcata	Southern Red Oak	2.5" Cal.	B&B	As Shown
	QPH	Quercus phellos	Willow Oak	2.5" Cal.	B&B	As Shown
	UA	Ulmus americana 'Delaware'	Delaware Americana Elm	2.5" Cal.	B&B	As Shown
		Total				
Minor Deciduous Trees						
	AA	Amelanchier arborea	Downy Serviceberry	1-1/2" Cal.	B&B	As Shown
	CC	Cercis canadensis	Eastern Redbud	1-1/2" Cal.	B&B	Multistem
	CF	Cornus florida	Flowering Dogwood	1-1/2" Cal.	B&B	As Shown
	LI	Lagerstroemia indica x fauriei 'Muskogee'	Muskogee Crape Myrtle	1-1/2" Cal.	B&B	As Shown
		Total				
Evergreen Trees						
	IO	Ilex opaca 'Jersey Princess'	American Holly	8-10' Hgt.	B&B	As Shown
	CL	Cupressus x leylandii	Leyland Cypress	8-10' Hgt.	B&B	As Shown
	JV	Juniperus virginiana 'Canaertii'	Eastern Red Cedar	10-12' Hgt.	B&B	As Shown
	TD	Taxodium distichum	Bald cypress	8-10' Hgt.	B&B	As Shown
	TO	Thuja occidentalis	Eastern Arborvitae	8-10' Hgt.	B&B	As Shown
		Total				
Shrubs						
	CA	Clethra alnifolia 'Hummingbird'	Summersweet	#3	Cont.	3' O.C.
	HA	Hydrangea aborscens 'Annabelle'	Smooth Hydrangea	#5	Cont.	5' O.C.
	HQ	Hydrangea quercifolia 'Ruby Slippers'	Oakleaf Hydrangea	#5	Cont.	5' O.C.
	IV	Ilex verticillata	Winterberry Holly	#5	Cont.	6' O.C.
	IV	Ilex verticillata 'Southern Gentleman'	Winterberry Holly	#5	Cont.	6' O.C. 1 male per 7
	VS	Itea virginica 'Henry's Garnet'	Virginiana Sweetpire	#3	Cont.	3' O.C.
	MP	Myrica pensylvanica	Northern Bayberry	#5	Cont.	5' O.C.
	RM	Rhododendron maximum	Rosebay Rhododendron	3-4' Hgt.	Cont.	5' O.C.
		Total				
Grasses						
	Ps2	Panicum virgatum 'Shenandoah'	Switch Grass	2 gal.	Cont.	3' O.C.
	Pvr	Panicum virgatum rostratum	Red Switch Grass	2 gal.	Cont.	3' O.C.
		Total				
Perennials						
	Anp	Aster novae-angliae 'purple dome'	Purple dome new england aster	1 gal.	Cont.	18" o.c.
	Bau	Baptisia australis	False indigo	1 gal.	Cont.	18" o.c.
	Ep	Echinacea purpurea 'Kims Knee High'	Dwarf Purple Coneflower	1 gal.	Cont.	18" o.c.
	Hhr	Hereroacallis X 'happy returns'	Happy returns daylily	1 gal.	Cont.	18" o.c.
		Total				
Ground Covers						
	Cp	Carex plantaginea	Plantain-leaf Sedge	1 gal.	Cont.	12" o.c.
	Gs	Geranium sanguineum	Bloody Cranes Bill	1 gal.	Cont.	18" o.c.
		Total				

GENERAL NOTES:

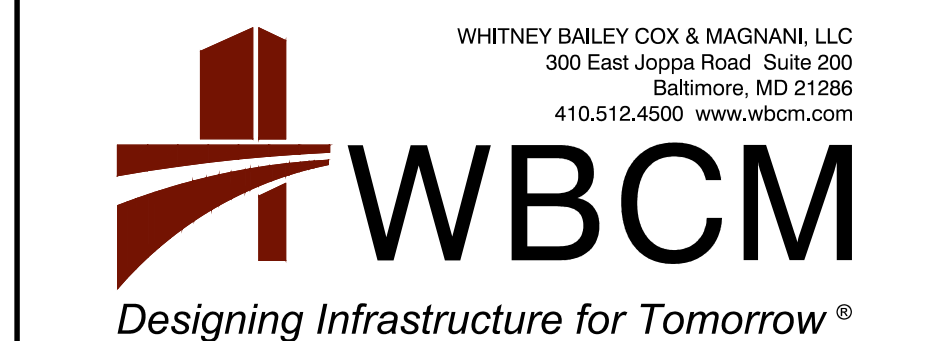
- ALL PLANT MATERIAL SHALL CONFORM TO THE SIZES GIVEN IN THE PLANT LIST AND SHALL BE NURSERY GROWN IN ACCORDANCE WITH THE "AMERICAN STANDARDS FOR NURSERY STOCK, ANSI Z60.1-2004" LATEST EDITION PREPARED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, 230 SOUTHERN BUILDING, WASHINGTON, DC, 20005.
- CONTRACTOR MUST VERIFY THE CORRECT LOCATION OF ANY EXISTING UTILITIES WHICH ARE UNDERGROUND, PRIOR TO PLANT INSTALLATION. THE CONTRACTOR SHALL CALL MISS UTILITY (1-800-257-7777) A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND REQUIREMENTS FOR CONSTRUCTION.
- ALL PLANT BEDS SHALL BE MULCHED WITH A MINIMUM OF 2" AND A MAXIMUM OF 3" LAYER OF MULCH WITHIN TWO DAYS AFTER PLANTING. THIS SHALL BE SHREDDED HARDWOOD BARK, AND SHALL COVER ENTIRELY THE PLANTING BED.
- ALL PLANTS SHALL BE GUARANTEED TO REMAIN ALIVE AND HEALTHY FOR A PERIOD OF TWO FULL YEARS AFTER INITIAL ACCEPTANCE. ANY REPLACEMENT PLANTS, REQUIREMENTS, ETC. AND METHOD OF PLACING SHALL COMPLY WITH THE REQUIREMENTS SPECIFIED HEREIN AND ON THE DRAWINGS.
- EXISTING SOIL IN BED AREAS SHALL BE AMENDED TO A DEPTH OF 12". SOIL MIX IN ALL BEDS SHALL BE 2/3 EXISTING SOIL, AND 1/3 ORGANIC MATERIAL SUCH AS LEAFGRD.
- PLANT MATERIAL AVAILABILITY MAY VARY AT THE TIME OF CONSTRUCTION. ANY SUBSTITUTIONS ARE TO BE OF EQUIVALENT TYPE AND SIZE (OR LARGER), AND MUST BE APPROVED BY LANDSCAPE ARCHITECT BEFORE INSTALLATION.
- WHERE THE CONDITION EXISTS THAT BALLED AND BURLAPPED TREES ARE DELIVERED IN WIRE BASKETS, THE WIRE BASKETS SHALL BE CUT DOWN THE SIDE OF EACH MESH AND PEEL AWAY FROM THE ROOTBALL OR REMOVED IN ENTIRETY. NO PORTION OF THE WIRE BASKET SHALL REMAIN INTACT AROUND THE SIDES OF THE ROOTBALL OR EXTEND ABOVE FINISHED GRADE.
- ANY DAMAGE TO THE EXISTING UTILITIES, BUILDINGS, PAVING, CURB, WALLS, AND VEGETATION (NOT SO DESIGNATED FOR REMOVAL ON THESE PLANS) SHALL BE REPAIRED TO PREVIOUS CONDITION OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE. ALL AREAS DISTURBED DURING CONSTRUCTION ARE TO BE SEED UNLESS NOTED OTHERWISE.
- ADJUST TREE LOCATIONS IN THE FIELD IF LOCATIONS SHOWN CONFLICT WITH EXISTING VEGETATION NOT PICKED UP IN SURVEY.
- SEED DISTURBED AREAS.

MINIMUM LANDSCAPE MAINTENANCE REQUIREMENTS:

- LAWN AREAS SHALL BE MOWED TO A HEIGHT OF 2 TO 3 INCHES AND NOT ALLOWED TO REACH A HEIGHT OF 4 INCHES BEFORE MOWING.
- ALL CURBS AND WALKS SHALL BE EDGED AS NEEDED.
- ALL LAWN AREAS ADJACENT TO BUILDING FACES OR STRUCTURES SHALL BE TRIMMED.
- A SLOW RELEASE NITROGEN BALANCED FERTILIZER WITH A 2-1-1 RATIO SHALL BE APPLIED AT A RATE OF 2 POUNDS OF NITROGEN PER 1000 SQUARE FEET IN SEPTEMBER, OCTOBER, AND FEBRUARY.
- LIME SHALL BE APPLIED AT THE RATE DETERMINED BY A SOILS REPORT.
- IT IS RECOMMENDED THAT LAWN AREAS BE TREATED IN MID-MARCH TO EARLY APRIL WITH PER-EMERGENT HERBICIDE (BETASAN) OR EQUAL APPLIED AT THE MANUFACTURER'S RECOMMENDED RATE.
- A POST-EMERGENT HERBICIDE (TRIMEQ) OR EQUAL IS RECOMMENDED TO BE SPRAYED ON LAWN AREAS IN THE LATE SPRING OR THE EARLY FALL. FOLLOW MANUFACTURER'S RATES AND RECOMMENDATIONS.
- INSECTICIDES AND FUNGICIDES ARE RECOMMENDED FOR INSECT AND DISEASE CONTROL.
- RESEED BARE AREAS OF LAWN AS NECESSARY. YEARLY AERATION IS RECOMMENDED.
- ALL TRASH, LITTER, AND DEBRIS SHALL BE REMOVED FROM LAWN AREAS, PARKING LOTS, AND SHRUB BEDS AS NEEDED.
- MULCH ALL SHRUB AND GROUND COVER BEDS YEARLY WITH 3 INCHES OF HARD WOOD BARK.
- PERMIT SHRUBS AND TREES TO GROW AND ENLARGE TO THEIR DESIGN SIZE. CONSULT PROJECT LANDSCAPE ARCHITECT FOR DETAILS.
- PRUNE TREES IN ACCORDANCE WITH LANDSCAPE SPECIFICATION GUIDELINES FOR BALTIMORE-WASHINGTON METRO-POLITAN AREAS.



GROUND COVER
NOT TO SCALE

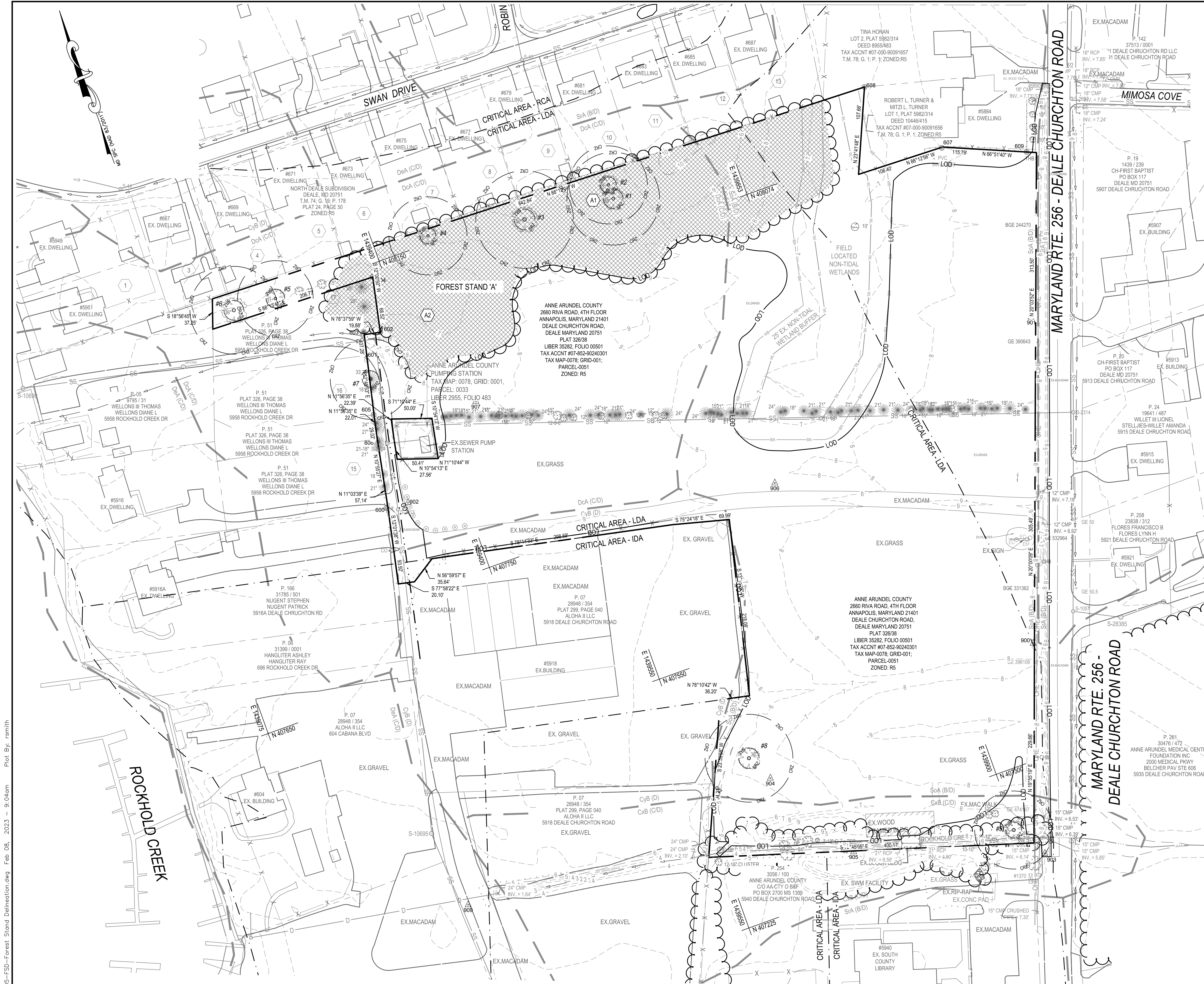


I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
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REVISIONS			
NO.	DESCRIPTION	BY	DATE

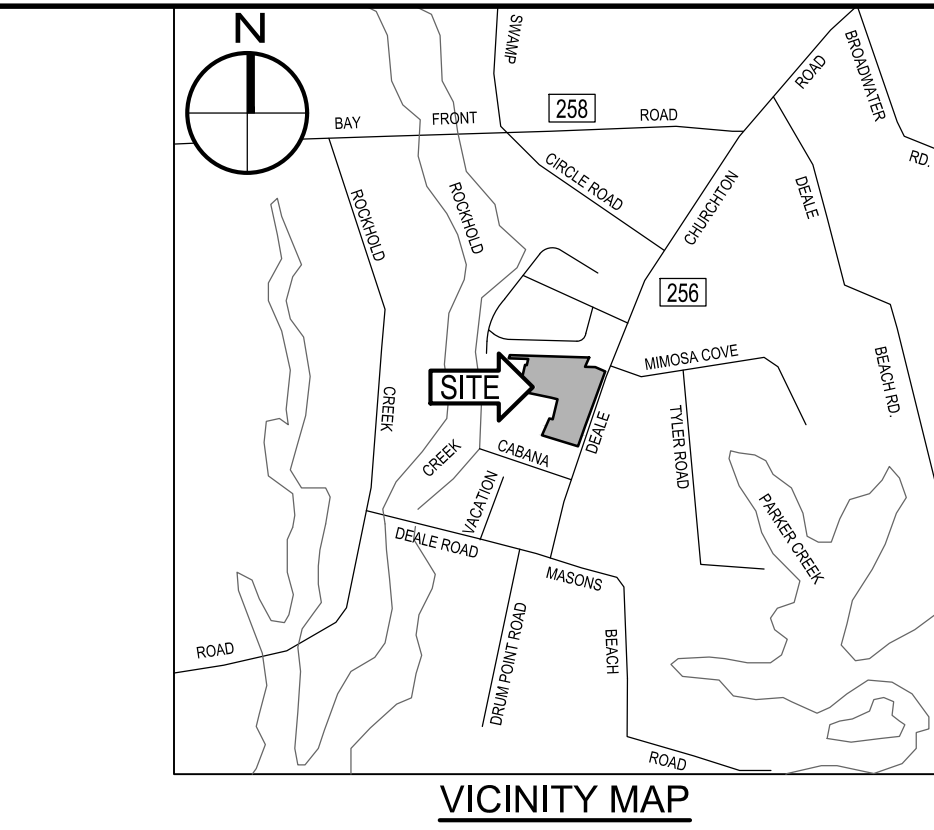
APPROVED			
DATE	DATE	SCALE:	AS SHOWN
		DRAWN BY:	R.S.S.
		CHECKED BY:	R.W.H.
		SHEET NO.	25 OF 34
		PROJECT NO.:	P582201
		CONTRACT NO.:	P582201

ANNE ARUNDEL COUNTY	
DEPARTMENT OF PUBLIC WORKS	
	DEALE COMMUNITY PARK
	LANDSCAPE NOTES AND DETAILS



LEGEND

DESCRIPTION	EXISTING
BUILDING	EX. BLDG
BITUMINOUS CONCRETE PAVING	EX. MACADAM
PORTLAND CEMENT CONCRETE	EX. CONC.
BITUMINOUS CONCRETE MILL & OVERLAY	EX. MACADAM
BITUMINOUS CONCRETE PEDESTRIAN WALK	
DECIDUOUS / EVERGREEN TREES	
CLEAN OUT	
DRAIN INLET	
ELECTRIC MH	
FIRE HYDRANT	
GAS VALVE	
HAND BOX	
INLET MH	
UTILITY POLE	
SANITARY MH	
MAJOR CONTOUR	
MINOR CONTOUR	
WALL	
CONC. CURB	
SURVEY LIMITS	
FENCE LINE	
O/H ELECTRIC	
U/G ELECTRIC	
U/G GAS	
U/G SANITARY	
U/G STORM	
U/G WATER	
U/G TELEPHONE	
SOIL BORING	
LIMIT OF DISTURBANCE	
SOIL LINES	



- FOREST STAND DELINEATION NOTES:**
THE PROJECT AREA IS FOR THE DEVELOPMENT OF DEALE COMMUNITY PARK.
- PROPERTY ADDRESS: 5924 DEALE CHURCHTON ROAD, DEALE MARYLAND 20751
 - PROPERTY AREA IS COMPRISED OF THE FOLLOWING PARCEL:
a. MAP 0078, GRID 0001, PARCEL 0051, DEED REFERENCE: LIBER 35282, FOLIO 00501
 - OWNER: ANNE ARUNDEL COUNTY
MAILING ADDRESS:
2660 RIVA ROAD, 4TH FLOOR
ANNAPOLIS, MARYLAND 21401
 - WETLANDS ARE PRESENT ON-SITE.
 - THE STATUS OF THE 100-YR FLOOD PLAIN: NO FLOOD PLAINS PRESENT ON-SITE.
FEMA FLOOD MAP: FIRM PANEL 316 OF 385
COMMUNITY NUMBER SUFFIX
ANNE ARUNDEL COUNTY 240008 0316 F
 - INTERMITTENT AND PERENNIAL STREAMS ARE PRESENT ON-SITE.
 - ZONING: RS - RESIDENTIAL
 - THE SITE IS WITHIN THE CHESAPEAKE BAY CRITICAL AREA.

FOREST STAND DELINEATION NARRATIVE
THE FSD INVESTIGATION PERFORMED BY WHITNEY, BAILEY, COX & MAGNANI, ON SEPTEMBER 21, 2022, THE SUBJECT PROPERTY IS A 12.03 ACRE PARCEL OF WHICH 1.81 ACRES IS FORESTED. THE FOREST HAS ONE (1) STAND, THE SURROUNDING AREA IS MARINA DISTRICT, GENERAL COMMERCIAL AND LOW DENSITY RESIDENTIAL HOUSING. THERE IS A FORESTED CORRIDOR ON THE NORTH EDGE OF THE PROPERTY.

FOREST STAND A
FOREST STAND A IS 1.81 AC. THE TREE CANOPY IS TYPICAL OF A COASTAL PLAIN WALNUT - MAPLE LATE SUCCESSIONAL FOREST. THE STAND IS A BALANCED UN-EVEN AGED FOREST STRUCTURE WITH THE DOMINANT CANOPY CONSISTING OF THREE (3) SPECIES: OAK, MAPLE, AND WALNUT WITH A DOMINANT CLASS SIZE OF > 30 IN. DBH. OVERSTORY TREE SPECIES IN THE SHADY OAK-ELKTON COMPLEX SOILS ARE: BLACK WALNUT, SWEETGUM, RED MAPLE, LOBLOLLY PINE AND BLACK CHERRY.

THE STAND IS SITUATED IN A SHADY OAK-ELKTON COMPLEX SOILS RANGING IN 0-2 PERCENT SLOPES. THE DEALE SHADY OAK COMPLEX SOILS ARE DESCRIBED AS FINE SANDY LOAM MINERAL SOIL, SILT LOAM, SILTY CLAY LOAM, SILTY EOLIAN MATERIAL UNDERLAIN BY LOAMY ALLUVIAL OR MARINE SEDIMENTS, POORLY DRAIN.

UNDERSTORY TREES INCLUDE: ELM, CHERRY, RED BUD AND GREEN ASH. WILDFIRE HABITAT VALUE ON THIS SITE IS EXCELLENT WITH COVER ALONG THE FOREST EDGE AND INTERIOR. THERE ARE SPECIMEN TREES (>30 DBH) SCATTERED IN THIS FOREST STAND.

OVERALL
THE STAND A IS IN FAIR CONDITION, AND HAS AN 85% CANOPY CLOSURE. THERE IS A 30% PRESENCE OF INVASIVE SPECIES THROUGHOUT THE STAND AND THERE ARE ENVIRONMENTAL RESOURCES PRESENT ON THE PROJECT SITE. THE FOREST STAND A WOULD BE CLASSIFIED AS A PRIORITY ONE RANKING DUE TO THE BUFFERS FOR LAND USE AND CRITICAL HABITATS. THE SITE WAS HARVESTED 50 OR MORE YEARS AGO AS UNDERSTORY SHOWS SIGNS OF DISTURBANCE AND MANY SPECIMEN TREES.

EXISTING FOREST ON PROJECT PROPERTY

SPECIMEN TREES

CRITICAL ROOT ZONE (CRZ)

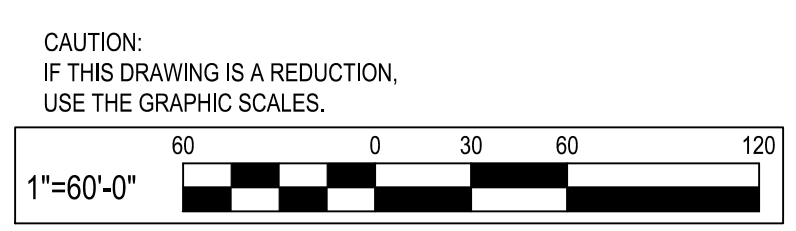
STRUCTURAL ROOT ZONE (SRZ)

FSD FIELD SAMPLING PLOT LOCATION

Stand Variable	Stand #A1	Stand #2
1. Dominant species / Codominant species	Red Oak, Elm & Cherry	Walnut, Maple & Ash
2. Successional stage	Late	Late
3. Basal area in s.f. per acre	60	40
4. Size class of dominant species	> 30 IN DBH	6 - 12 IN DBH
5. Percent of canopy closure	95%	80%
6. Number of tree species per acre	5	4
7. Common understory species per acre	Cherry & Elm	Red Bud & Green Ash
8. Percent of understory cover 3' to 20' tall	27%	25%
9. Number of woody plant species 3' to 20' tall	2	2
10. Common herbaceous species 0' to 3' tall	Green Brier, Honey Suckle, Brambles & Ivy	Honey Suckle & Brambles
11. Percent of herbaceous & woody plant cover 0' to 3' tall	83%	73%
12. List of major invasive plant species & percent of cover	Honeysuckle, Ivy - 50%	Wisteria & Honeysuckle- 30%
13. Number of standing dead trees 6" dbh or greater	3	1
14. Comments	Lots of Brambles and downed timber debris, (3) specimen trees	

SPECIMEN TREE CHART

TREE NO.	SPECIES	DBH (in.)	CONDITION
ST #1	Green Ash / Fraxinus pennsylvanica	32.00	Good
ST #2	Red Oak / Quercus rubrum	38	Good
ST #3	Red Oak / Quercus rubrum	40	Good
ST #4	Red Oak / Quercus rubrum	31.5	Good
ST #5	Red Oak / Quercus rubrum	31	Good
ST #6	Black Walnut / Juglans nigra	36	Good
ST #7	Loblolly Pine / Pinus taeda	33	Good
ST #8	Black Cherry / Prunus serotina	36"	Good
ST #9	Sweetgum / Liquidambar styraciflua	32"	Good



WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

WBCM
Designing Infrastructure for Tomorrow

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License #27734 Expiration Date: 07/12/2024

REVISIONS

NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

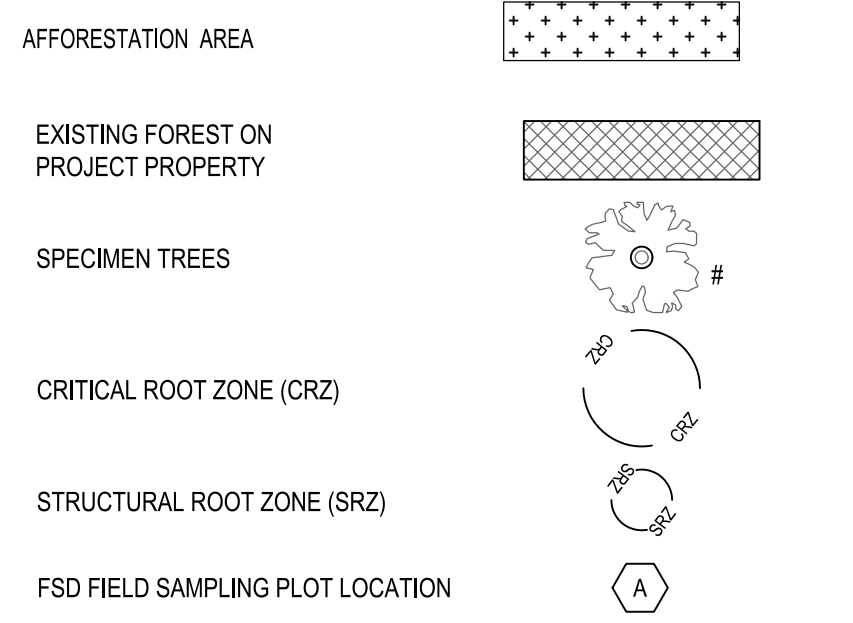
APPROVED	DATE	APPROVED	DATE

SCALE: 1" = 60'

DRAWN BY: R.S.S.
CHECKED BY: R.W.H.
SHEET NO. 26 OF 34
PROJECT NO.: P582001
CONTRACT NO.: P582001

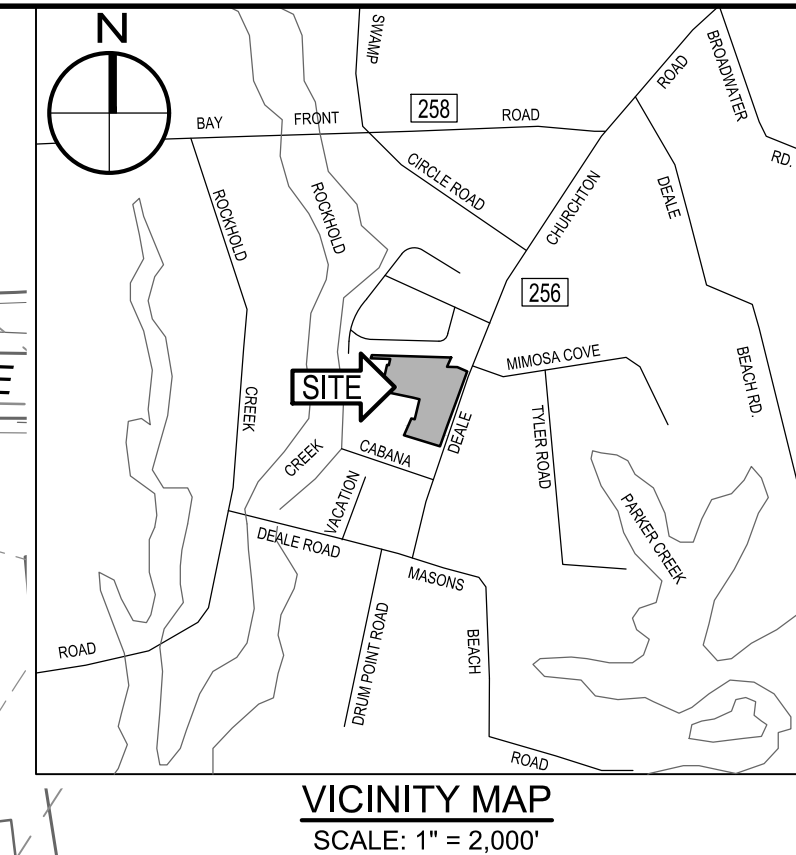
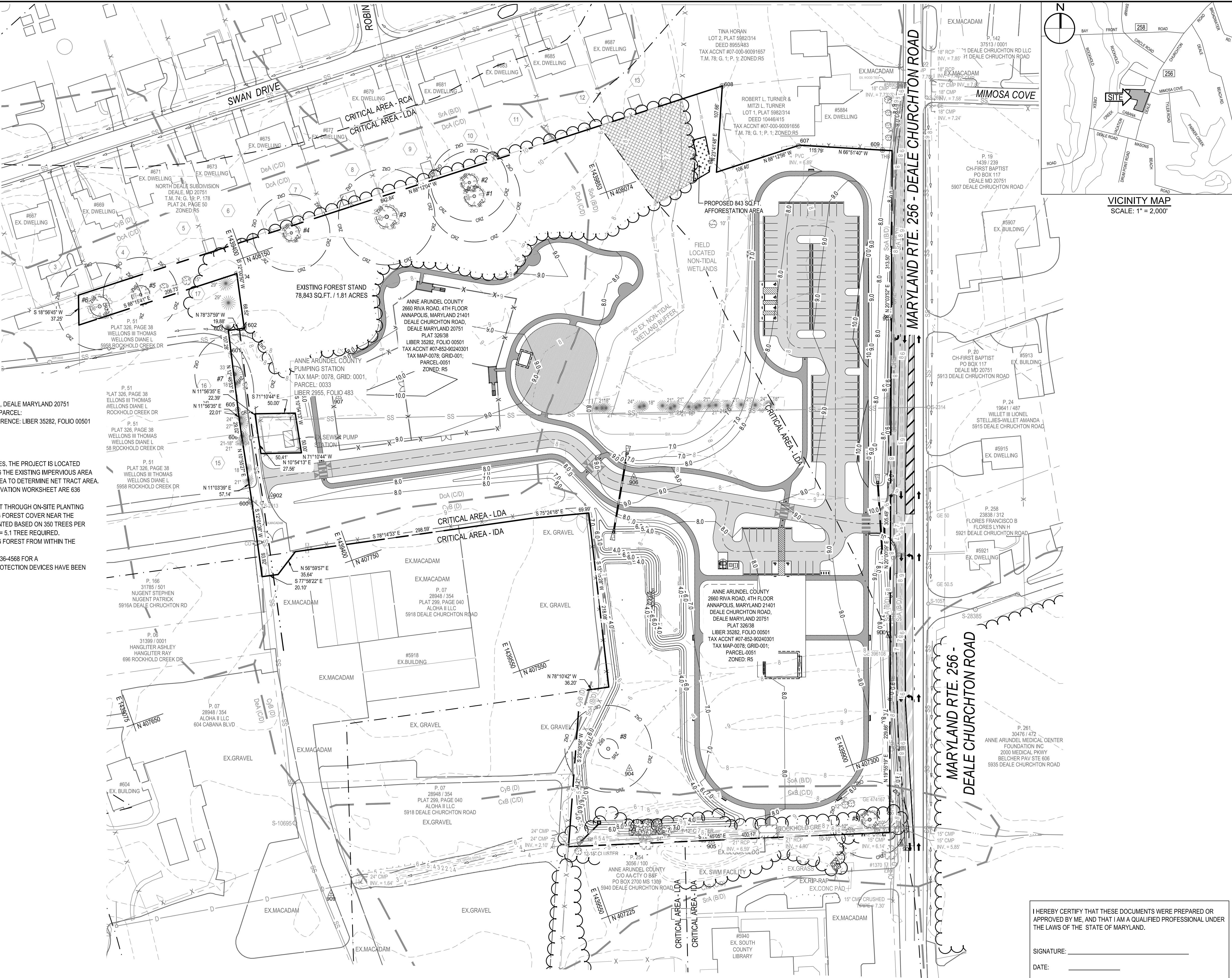
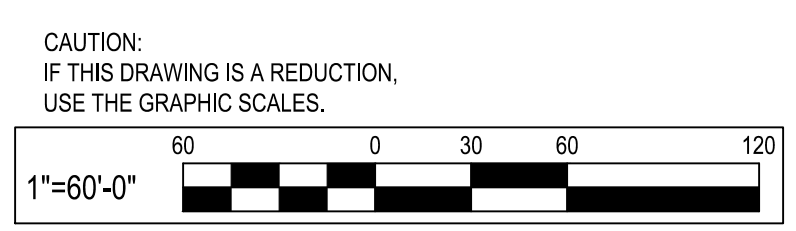
DEALE COMMUNITY PARK
FOREST STAND DELINEATION

DESCRIPTION	EXISTING
BUILDING	EX. BLDG
BITUMINOUS CONCRETE PAVING	EX. MACADAM
PORTLAND CEMENT CONCRETE	EX. CONC.
BITUMINOUS CONCRETE MILL & OVERLAY	EX. MACADAM
BITUMINOUS CONCRETE PEDESTRIAN WALK	
DECIDUOUS / EVERGREEN TREES	
CLEAN OUT	
DRAIN INLET	
ELECTRIC MH	
FIRE HYDRANT	
GAS VALVE	
HAND BOX	
INLET MH	
UTILITY POLE	
SANITARY MH	
SIGN (ONE-POST)	
STORM DRAIN MH	
STREET LIGHT	
TRAVERSE STATION	
WATER MH	
WATER VALVE	
SPOT ELEVATION	
MAJOR CONTOUR	
MINOR CONTOUR	
WALL	
CONC. CURB	
SURVEY LIMITS	
FENCE LINE	
OH ELECTRIC	
UG ELECTRIC	
UG GAS	
UG SANITARY	
UG STORM	
UG WATER	
UG TELEPHONE	
SOIL BORING	
LIMIT OF DISTURBANCE	
SOIL LINES	



- FOREST CONSERVATION NOTES:**
- PROPERTY ADDRESS: 5924 DEALE CHURCHTON ROAD, DEALE MARYLAND 20751
 - PROPERTY AREA IS COMPRISED OF THE FOLLOWING PARCEL:
a. MAP 0078, GRID 0001, PARCEL 0051, DEED REFERENCE: LIBER 35282, FOLIO 00501
 - OWNER: ANNE ARUNDEL COUNTY
MAILING ADDRESS:
2660 RIVA ROAD, 4TH FLOOR
ANNAPOLIS, MARYLAND 21401
 - EXISTING IMPERVIOUS AREA = 25,722 SQ.FT. / 0.59 ACRES. THE PROJECT IS LOCATED IN A PRIORITY FUNDING AREA (PFA), AS PER BILL 57-16 THE EXISTING IMPERVIOUS AREA HAS BEEN SUBTRACTED FROM THE TOTAL TRACT AREA TO DETERMINE NET TRACT AREA.
 - PLANTING REQUIREMENTS PER THE FOREST CONSERVATION WORKSHEET ARE 636 SF OR 0.0146 ACRES.
 - PLANTING REQUIREMENTS ARE PROPOSED TO BE MET THROUGH ON-SITE PLANTING OF 0.0146 ACRES TO BE LOCATED ADJACENT EXISTING FOREST COVER NEAR THE NORTHERN PROPERTY LINE. TOTAL TREES TO BE PLANTED BASED ON 350 TREES PER ACRE FOR 1 GALLON CONTAINER STOCK, 0.0146 X 350 = 5.1 TREE REQUIRED.
 - THIS PROJECT WILL REMOVE 0.00 ACRES OF EXISTING FOREST FROM WITHIN THE NET TRACT AREA.
 - DNR FOREST SERVICE MUST BE CONTACTED AT 410-836-4568 FOR A PRE-CONSTRUCTION MEETING AFTER THE FOREST PROTECTION DEVICES HAVE BEEN INSTALLED.

ANNE ARUNDEL COUNTY FOREST CONSERVATION WORKSHEET (IN SQUARE FEET)	
Variables	Unique Tract 1
Site Information	
A. Growth Management Area	Priority Funding Area
B. Land Use Type	Institutional
C. Unique Tract Area	524,224
D. Universal Deductions (Critical Area or 100-Yr Floodplain)	421,833
E. Impervious Surface Deductions for Targeted Growth and Priority Funding Areas	37,513
F. Existing Forest Cover within Unique Net Tract Area	8,889
G. Proposed Forest Clearing within Unique Net Tract Area	0
H. Unique Net Tract Area = (C)-(D)-(E)	64,878
I. Is Total Net Tract Area less than or equal to 5 Acres?	Yes
Key for lookup table	Priority Funding Area/Institutional/Yes
J. Conservation Threshold	20%
K. Afforestation Threshold	15%
Forest Conservation	
L. Conservation Threshold Area = (H) X (J)	12,976
M. Area of Forest Above Conservation Threshold = (F) - (K)	0
N. Breakeven Point (Amount of forest that must be retained so that no mitigation is required.)	8,889
O. If the Area of Forest Above Conservation Threshold (L) is greater than 0, then M = ((0.333) X (L)) + (K). If the Area of Forest Above Conservation Threshold is equal to 0, then M = (F).	0
P. Forest Clearing Permitted without Mitigation = (F) - (M)	0
Q. Proposed Forest Retention = (F) - (G)	8,889
R. Reforestation for Retention Above the Threshold	0
If Proposed Forest Clearing (G) is > Area of Forest Above Conservation Threshold (L), then (R) = (L) X (0.5). If not, then (R) = (G) X (0.5).	0
S. Credit for Retention Above the Threshold	0
If Proposed Forest Clearing (G) is > Area of Forest Above Conservation Threshold (L), then (R) = 0. If not, then (R) = (L) - (G).	0
T. Reforestation for Retention Below the Threshold	0
If Proposed Forest Clearing (G) < Area of Forest Above Conservation Threshold (L), then (R) = 0. If not, then (R) = ((G) - (L)) X 2	0
U. Total Reforestation Required = (P) + (R) - (Q)	0
V. Afforestation Threshold Area = (H) X (I)	9,732
W. Total Afforestation Required	843
X. If Existing Forest Cover (F) < Afforestation Threshold Area (T), then (U) = (T) - (F). If not, then (U) = 0.	843
Y. Total Mitigation Required By Tract = (S) + (U)	843



WHITNEY BAILEY COX & MAGNANI LLC
300 East Joppa Road Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

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REVISIONS			
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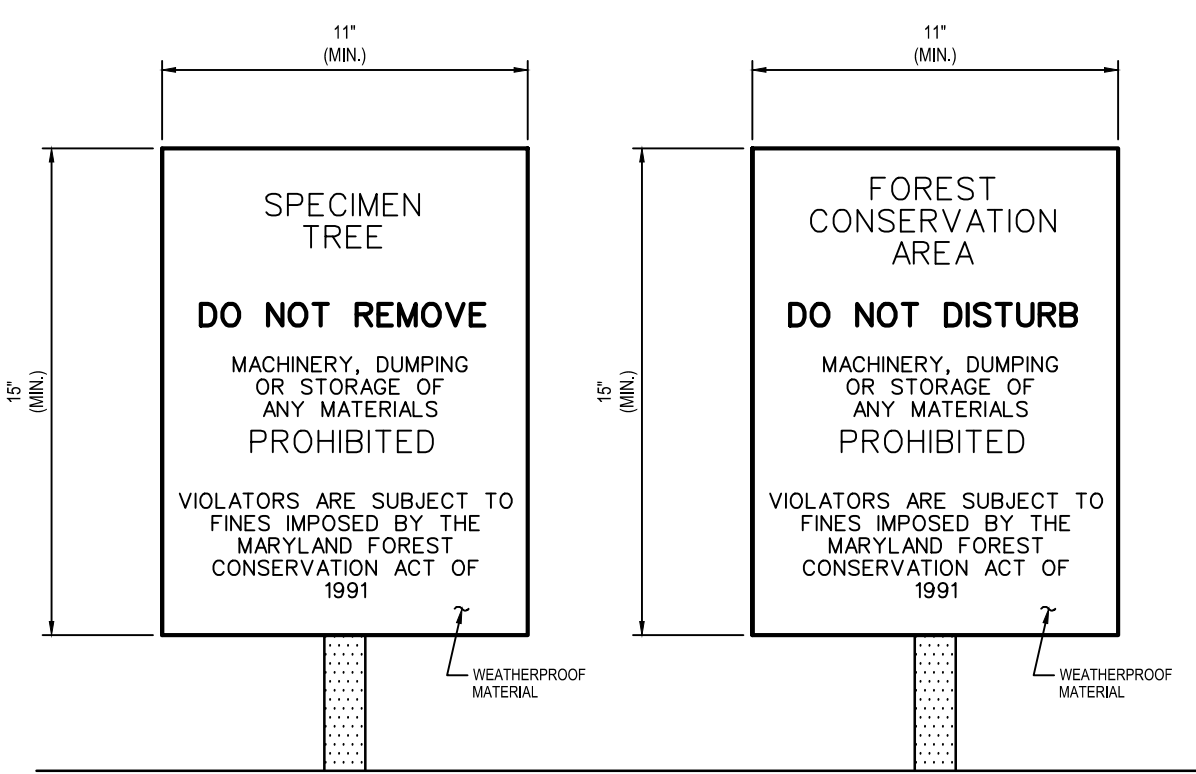
ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A QUALIFIED PROFESSIONAL UNDER THE LAWS OF THE STATE OF MARYLAND.

SIGNATURE: _____
DATE: _____

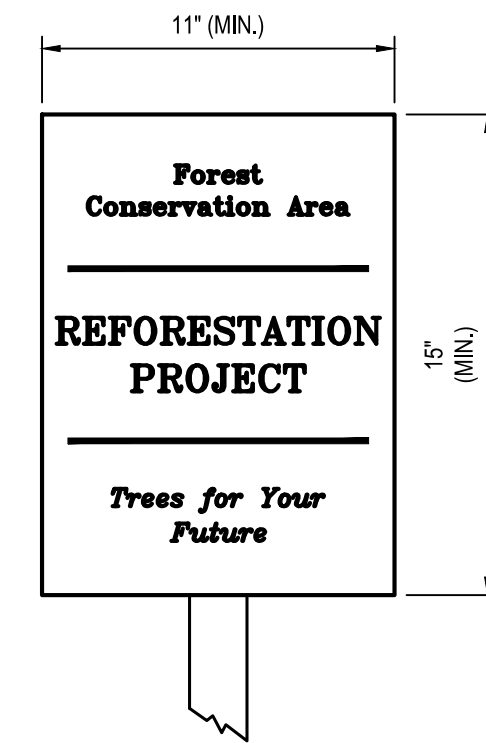
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SHEET NO. 27 OF 34
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CONTRACT NO.: P582001

DEALE COMMUNITY PARK
FOREST CONSERVATION PLAN



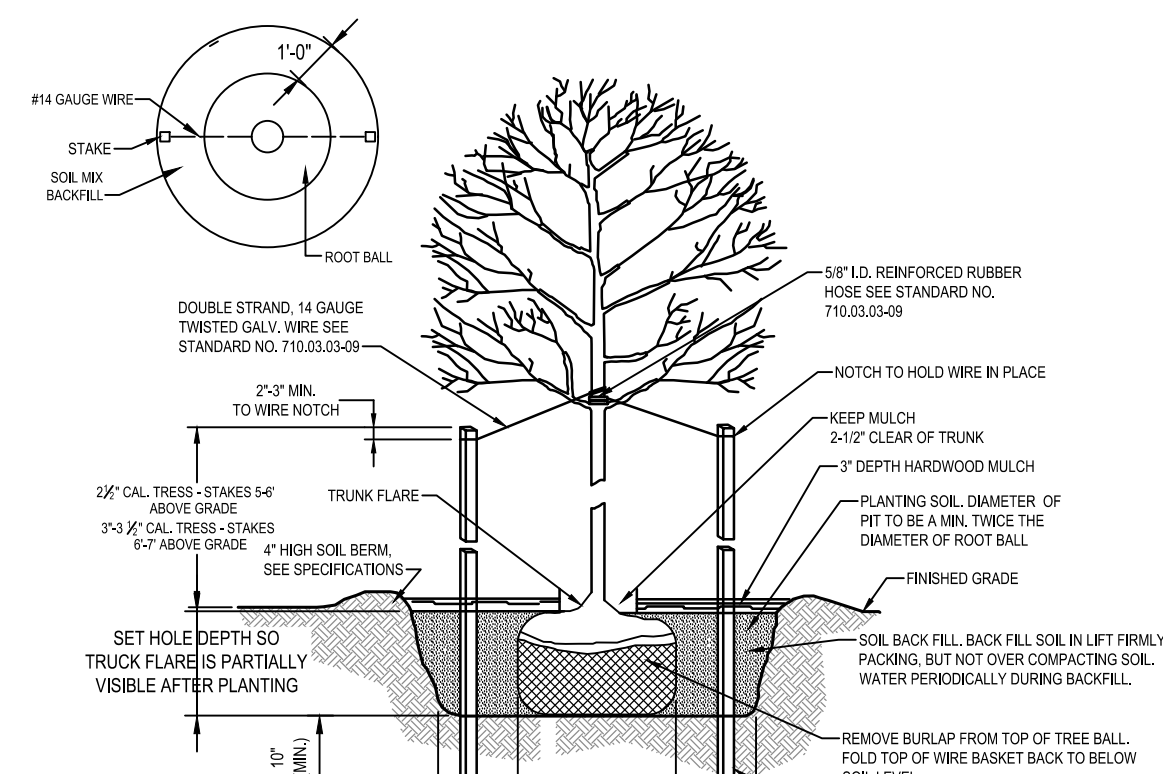
- NOTES:
- BOTTOM OF SIGNS TO BE HIGHER THAN TOP OF TREE PROTECTION FENCE.
 - SIGNS TO BE PLACED APPROXIMATELY 100' APART ALONG THE LIMITS OF DISTURBANCE CONTROL AREA WITH VISIBILITY IN ALL DIRECTIONS AS FAR AS PRACTICABLE.
 - ATTACHMENT OF SIGNS TO TREES IS PROHIBITED.

CONSTRUCTION SIGNS
NOT TO SCALE



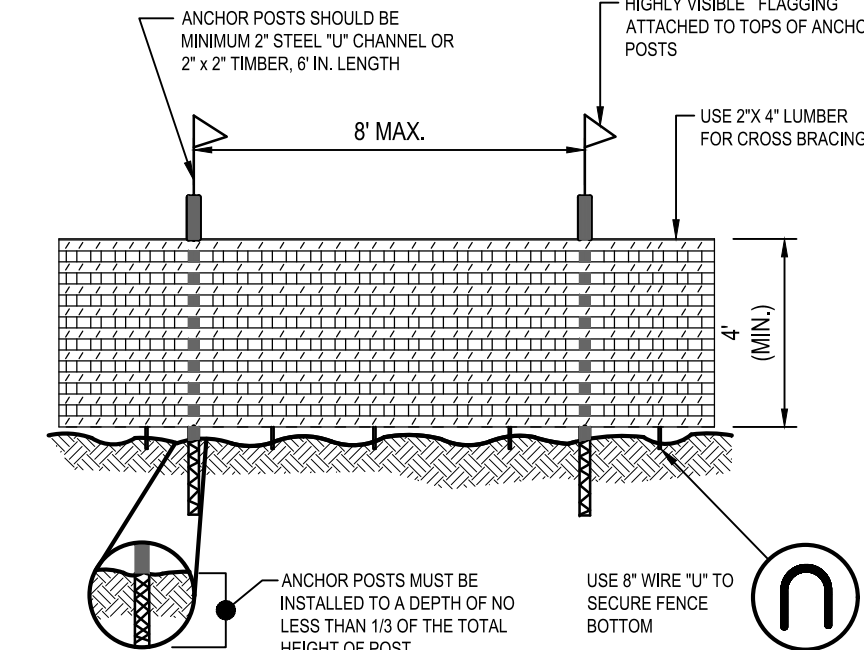
- NOTES:
- SIGNAGE TO BE INSTALLED ALONG THE COMMON BOUNDARY OF THE TREE PROTECTION FENCE WITH REFORESTATION/AFFORESTATION PLANTING AREAS.
 - SIGNS TO BE INSTALLED A MAXIMUM OF 100' ON CENTER AND AT EVERY CORNER OF THE PROTECTED AREA.
 - SIGNS TO BE MOUNTED AT A HEIGHT OF 4' ON 4"x4" PRESSURE TREATED POSTS.
 - SIGNAGE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

ELEVATION
AFFORESTATION PROTECTION SIGNAGE
NOT TO SCALE



- NOTE: LOCATE TWO STAKES PARALLEL TO NEAREST BOUNDARY OR FENCE LINE FOR UNIFORM APPEARANCE.
- NOTE: 2x2x4' HARDWOOD STAKES AS SPECIFIED. DRIVE STAKES INTO SOIL BEARING GROUND MINIMUM 18\"/>

ELEVATION
DECIDUOUS TREE DETAIL
NOT TO SCALE



- NOTE:
- BLAZE ORANGE OR BLUE PLASTIC MESH FENCE FOR FOREST PROTECTION DEVICE ONLY.
 - BOUNDARIES OF RETENTION AREA WILL BE ESTABLISHED AS PART OF THE FOREST CONSERVATION PLAN REVIEW PROCESS.
 - BOUNDARIES OF RETENTION AREA SHALL BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE.
 - AVOID DAMAGE TO CRITICAL ROOT ZONE. DO NOT DAMAGE OR SEVERE LARGE ROOTS WHEN INSTALLING POSTS.
 - PROTECTION SIGNS ARE REQUIRED.
 - DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

ELEVATION
PLASTIC MESH TREE PROTECTION FENCE
NOT TO SCALE

AFFORESTATION OR REFORESTATION MAINTENANCE AND REPLACEMENT REQUIREMENTS

A TWO YEAR MAINTENANCE AND REPLACEMENT WARRANTY PERIOD IS REQUIRED FOR ALL NEWLY PLANTED MATERIALS. THE MAINTENANCE AND REPLACEMENT WARRANTY PERIOD SHALL COMMENCE UPON THE DATE OF THE WRITTEN ACCEPTANCE BY THE OWNER OF THE PLANTED AREAS. A WRITTEN WARRANTY WILL BE DELIVERED TO THE OWNER UPON ACCEPTANCE OF THE PLANTED AREAS. THE CONTRACTOR RESPONSIBLE FOR THE INITIAL PLANTING OPERATIONS AND RELATED WORK SHALL PROVIDE MAINTENANCE AND REPLACEMENT. ALL LANDSCAPE PLANT MATERIAL INCLUDED AS FOREST CONSERVATION CREDITS SHALL BE COVERED UNDER THE MAINTENANCE AND REPLACEMENT WARRANTY PERIOD.

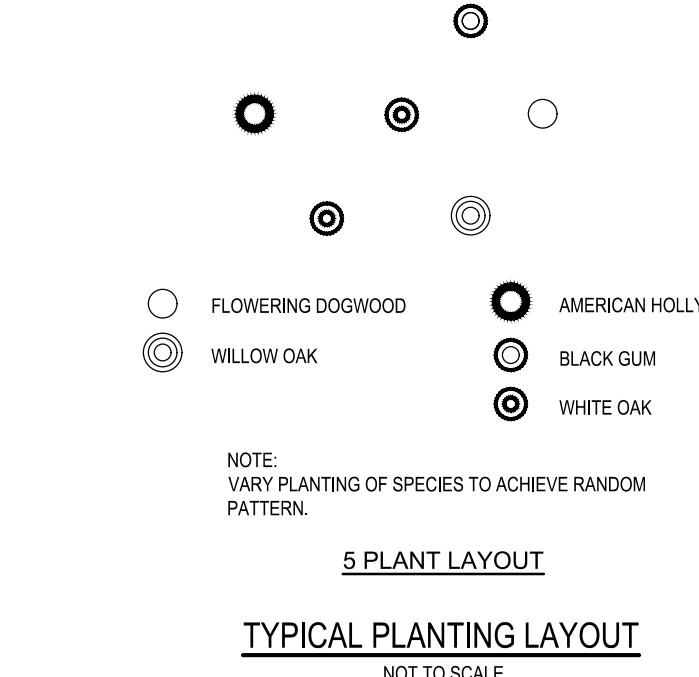
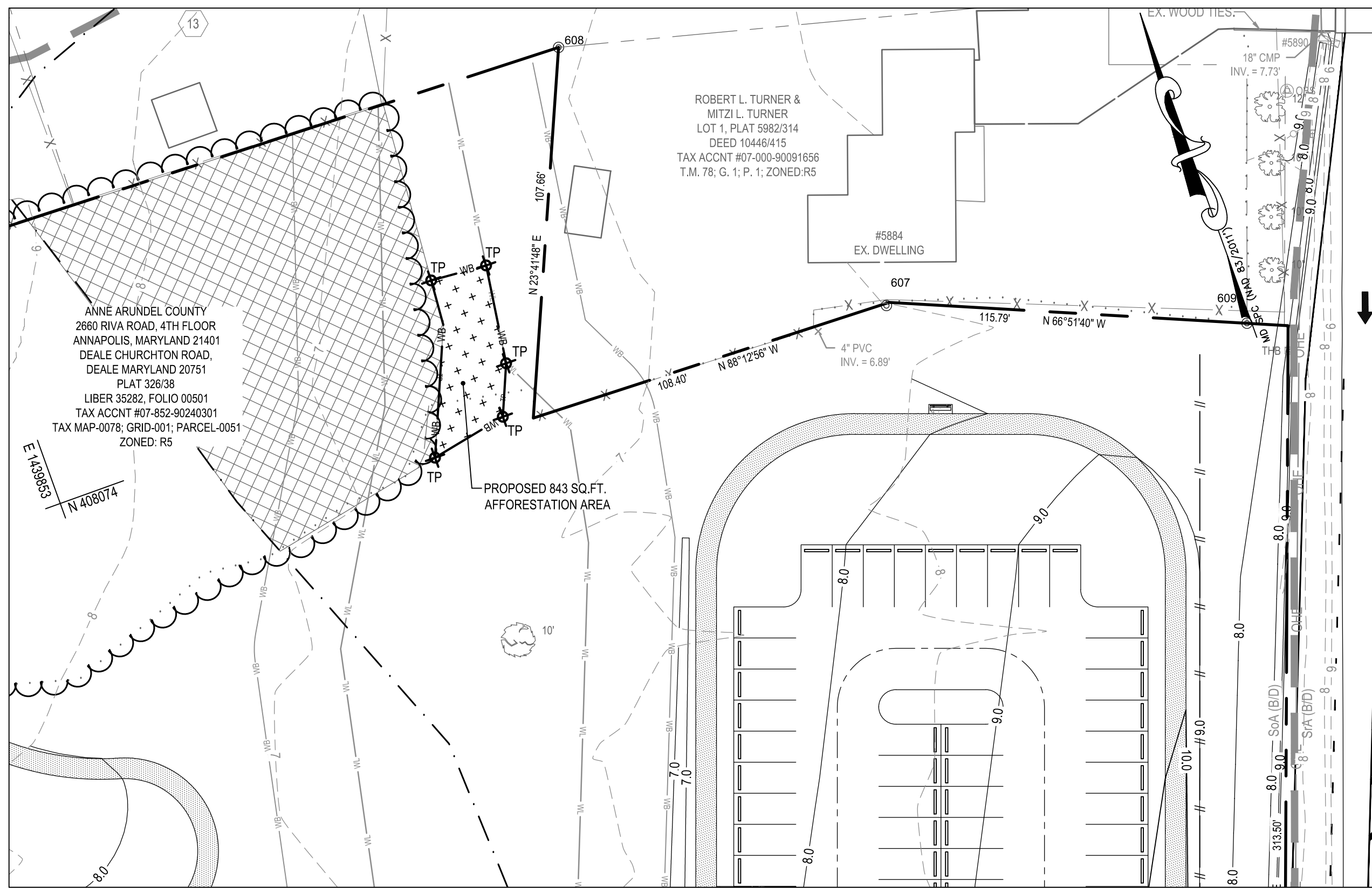
MAINTENANCE

THE CONTRACTOR SHALL FIELD CHECK THE NEWLY PLANTED AREA(S) AND SHALL PROVIDE THE FOLLOWING MAINTENANCE ITEMS IN ACCORDANCE WITH THE FOLLOWING SCHEDULE WHICH SHALL BEGIN AFTER THE COMPLETION AND ACCEPTANCE OF THE INITIAL AFFORESTATION OR REFORESTATION PLANTING.

- WATERING: WATERING OF ALL NEWLY PLANTED MATERIALS ONCE PER WEEK AS WEATHER PERMITS DURING THE ENTIRE INITIAL GROWING SEASON. FOLLOWING THE INITIAL GROWING SEASON WATERING SHALL BE DONE ON AN 'AS NEEDED' BASIS DEPENDING ON THE FREQUENCY OF NATURAL RAINFALL. DURING THE MONTHS OF JULY AND AUGUST AND PERIODS OF SEVERE DROUGHT, ALL NEWLY PLANTED MATERIALS SHALL BE WATERED THOROUGHLY ONCE EVERY WEEK. WATERING SHALL BE DONE DEEPLY AND SLOWLY USING AN OPEN END HOSE OR WATERING PROBE, AT LOW PRESSURE, ALLOWING THE WATER TO BE ABSORBED INTO THE SOIL UNTIL THOROUGHLY SATURATED. THE WATERED AREA SHALL INCLUDE THE WHOLE ROOT ZONE AS THE TREE BECOMES MORE ESTABLISHED.
- FERTILIZING: FERTILIZING SHALL BE APPLIED ONLY AFTER THE SOIL HAS BEEN TESTED TO DETERMINE ITS NEEDS. ORGANIC FERTILIZER SHOULD BE APPLIED IN ACCORDANCE WITH THE AMOUNTS RECOMMENDED IN THE SOIL ANALYSIS REPORT. NO FERTILIZING OF NEWLY PLANTED TREES SHALL BE DONE WITHIN THE FIRST GROWING SEASON AFTER INITIAL PLANTING. FOLLOWING THE FIRST GROWING SEASON, APPLY FERTILIZER AS RECOMMENDED EITHER IN LATE FALL OR EARLY SPRING.
- SUPPLEMENTAL MULCH: TO CONTROL UNDESIRABLE VEGETATION ADJACENT TO THE NEWLY PLANTED MATERIALS AND TO PREVENT TREE ROOTS FROM DRYING OUT, ADDITIONAL MULCH SHALL BE PLACED OVER THE EXISTING MULCH FIELD WHERE REQUIRED. CAREFULLY REMOVE ANY INVASIVE PLANTS, INCLUDING THE ROOT SYSTEM WITHIN THE MULCH FIELDS. DO NOT DAMAGE TREES IN ANY WAY DURING REMOVAL OF INVASIVE PLANTS OR MULCHING OPERATIONS.
- PRUNING: REMOVE DEAD, DISEASED, DYING, AND BROKEN BRANCHES FROM ALL PLANT MATERIALS. PRUNING SHALL BE DONE CLEANLY, LEAVING NO RAGGED EDGES.

REPLACEMENT OF DEAD OR DYING MATERIALS

- SURVIVAL REQUIREMENT:** AREAS AT THE END OF THE SECOND GROWING SEASON SHALL MEET THE FOLLOWING MINIMUM PERCENTAGES OF TOTAL PLANTS SPECIFIED BY THE APPROVED PLAN.
 - BARE ROOT SEEDLINGS OR WHIPS- 55%
 - CONTAINER-GROWN SEEDLING TUBES OR WHIPS WITH TREE SHELTERS- 65%
 - CONTAINER-GROWN 1-2, AND 3- GALLON- 75%
 - CONTAINER-GROWN 5- AND 7- GALLON OF 1\"/>
- INSPECTION: CONTRACTOR SHALL SCHEDULE AN INSPECTION OF THE AFFORESTATION OR REFORESTATION AREA(S) BY A QUALIFIED REPRESENTATIVE OF THE DPZ AND BY THE QUALIFIED PROFESSIONAL WHO PREPARED THE PLAN. AT THE BEGINNING AND AT THE END OF THE GROWING SEASON TO OBSERVE ANY PROBLEMS, MONITOR SURVIVAL RATE AND SPECIFY NECESSARY REMEDIAL ACTIONS. NEEDED TO CORRECT EXISTING PROBLEMS. THE INSPECTION SHOULD FOCUS ON THE FOLLOWING ITEMS WHEN DETERMINING SURVIVAL POTENTIAL:
 - VIGOR AND THREAT OF COMPETING VEGETATION
 - PLANT STRUCTURE
 - GROWTH RATE
 - CROWN DEVELOPMENT
 - TRUNK CONDITIONS AND HEALTH.
- PLANT CONDITION-CHECK SHEETS: THE CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS ON APPROPRIATE FIELD DATA CHECK SHEETS WHICH SHALL INCLUDE ALL CONDITIONS OBSERVED RELATIVE TO THE HEALTH AND POTENTIAL SURVIVAL OF THE PLANT MATERIALS. SUCH CHECK SHEETS SHALL BE COMPLETED DURING EACH SCHEDULED MAINTENANCE SESSION DURING THE 24-MONTH MANAGEMENT AND MAINTENANCE PROGRAM. ONE COPY OF THE CHECK SHEETS SHALL BE SENT TO THE CLIENT, ONE COPY TO WBCM, AND ONE COPY SHALL BE SENT TO THE ANNE ARUNDEL COUNTY DEPARTMENT OF PLANNING AND ZONING.
- REPLACEMENT: ANY PLANT MATERIALS WHICH ARE 25% DEAD OR MORE SHALL BE REPLACED DURING THE APPROPRIATE SPRING OR FALL PLANTING SEASONS IN ACCORDANCE WITH THE METHODS INDICATED IN THE PLANTING DETAILS. A TREE SHALL BE CONSIDERED DEAD WHEN THE MAIN LEADER HAS DIED BACK. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME GENUS, SPECIES, AND SIZE AS SPECIFIED ON THE PLANT LIST.
- INSPECTION/CERTIFICATION SCHEDULE: THE CONTRACTOR SHALL SUBMIT WITH HIS BID A SCHEDULE FOR THE WORK WHICH SHALL INCLUDE INSPECTIONS BY WBCM AT THE CONCLUSION OF INSTALLATION AND AT THE START AND CONCLUSION OF EACH GROWING SEASON DURING THE TWO-YEAR WARRANTY PERIOD.
- PENALTY FOR VIOLATION: A SITE INSPECTION BY THE CONTRACTOR, AND A REPRESENTATIVE OF WBCM SHALL TAKE PLACE AT THE END OF THE 24-MONTH MANAGEMENT AND MAINTENANCE AGREEMENT PERIOD. THE CONTRACTOR SHALL CONTACT WBCM AT LEAST ONE (1) MONTH IN ADVANCE OF SUCH INSPECTION. FOR COORDINATION. IF THE SURVIVAL RATE OF THE AFFORESTATION OR REFORESTATION AREA(S) FALLS BELOW THE ESTABLISHED SURVIVAL REQUIREMENTS BY THE END OF THE 24-MONTH MANAGEMENT AND MAINTENANCE AGREEMENT, THE REMAINING AMOUNT OF THE CASH BOND OR OTHER SURETY MAY BE SUBJECT TO FORFEITURE, OR OTHER PENALTIES MAY BE IMPOSED.



CAUTION:
IF THIS DRAWING IS A REDUCTION,
USE THE GRAPHIC SCALES.



AFFORESTATION PLANTING PLAN
SCALE: 1"=30'

Afforestation Plant Schedule					
QTY	BOTANICAL NAME	COMMON NAME	SIZE(MIN.)	ROOT	REMARKS
1	Cornus florida	Flowering Dogwood	3'-4' Hgt., 1 gal.	Cont.	12' O.C Spacing
1	Ilex opaca	American Holly	3'-4' Hgt., 1 gal.	Cont.	12' O.C Spacing
1	Nyssa sylvatica	Black Gum	3'-4' Hgt., 1 gal.	Cont.	12' O.C Spacing
2	Quercus alba	White Oak	3'-4' Hgt., 1 gal.	Cont.	12' O.C Spacing
1	Quercus phellos	Willow Oak	3'-4' Hgt., 1 gal.	Cont.	12' O.C Spacing
6	TOTAL				

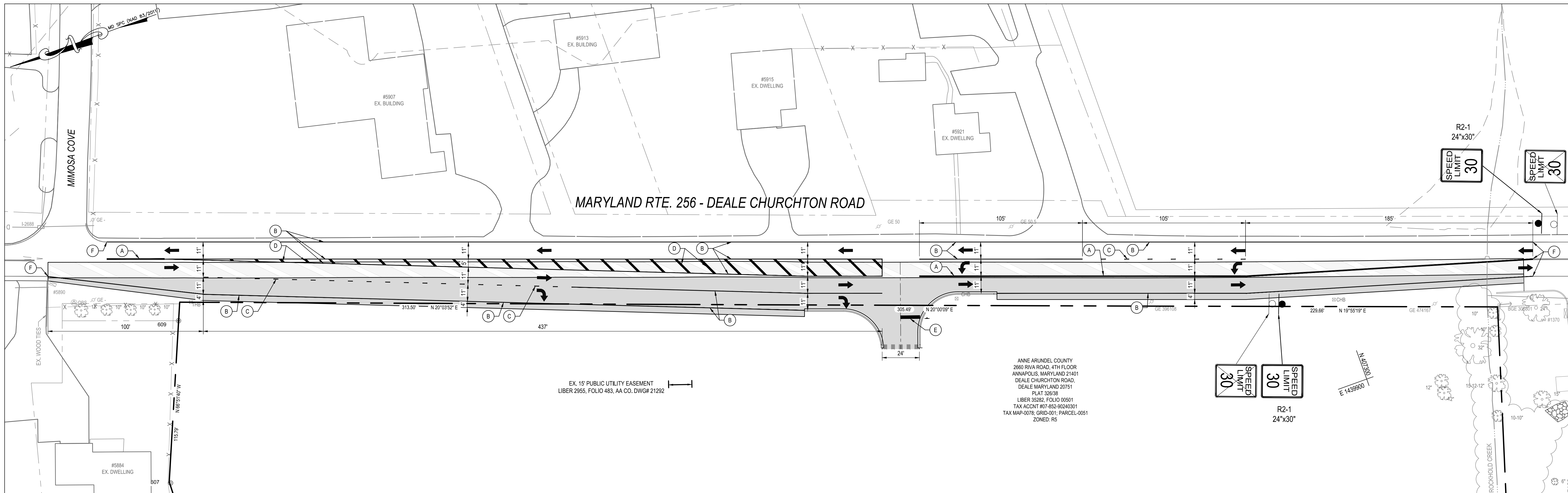
* CONTAINER GROWN - 1.2 & 3 Gallon sizes
* ALL NURSERY STOCK SHOULD CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI-AZ60-1-2004).
* ALL PLANT MATERIALS SHALL BE NURSERY GROWN AND SHALL CONFORM TO AMERICAN NURSERY & LANDSCAPE ASSOCIATION (ANLA) STANDARDS.
* ALL PLANTS SHALL BE IDENTIFIED IN ACCORDANCE WITH THE LATEST EDITION OF HORTUS THIRD, BY L.H. BAILEY.
* ALL PLANTS SHALL BE GUARANTEED BY THE CONTRACTOR FOR ONE YEAR FOLLOWING THE INSTALLATION COMPLETION.

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #27734. Expiration Date: 07/12/2024

REVISIONS			ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
NO.	DESCRIPTION	BY	DATE	APPROVED	DATE	SCALE: 1" = 60'
			APPROVED	DATE	APPROVED	DATE
			CHEIF ENGINEER		PROJECT MANAGER	
			APPROVED	DATE	APPROVED	DATE
			ASSISTANT CHIEF ENGINEER		CHEIF, RIGHT-OF-WAY	
DRAWN BY: R.S.S.						DEALE COMMUNITY PARK FOREST CONSERVATION PLAN NOTES AND DETAILS
CHECKED BY: R.W.H.						
SHEET NO. 28 OF 34						
PROJECT NO.: F582201 CONTRACT NO.: F582201						

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A QUALIFIED PROFESSIONAL UNDER THE LAWS OF THE STATE OF MARYLAND.

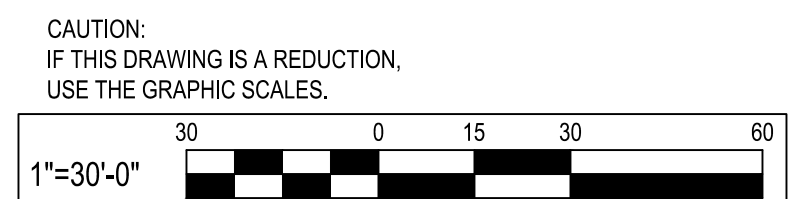
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DATE: _____



SIGNING AND PAVEMENT MARKING PLAN
SCALE: 1" = 30'

LEGEND

- ← LANE USE
- EXISTING SIGN
- PROPOSED SIGN & POST(S)
- SIGN PANEL AND SUPPORT(S) TO BE REMOVED AND NOT REUSED
- (A) INSTALL 5" SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING
- (B) INSTALL 5" SOLID WHITE THERMOPLASTIC PAVEMENT MARKING
- (C) INSTALL 5" DASHED WHITE THERMOPLASTIC PAVEMENT MARKING (3' SEGMENT-9' GAP)
- (D) INSTALL 15" YELLOW THERMOPLASTIC PAVEMENT MARKING (@ 45 DEGREES, 20 FT O/C)
- (E) INSTALL 24" WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
- (F) TIE TO EXISTING PAVEMENT MARKING



WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #27734 Expiration Date: 07/12/2024

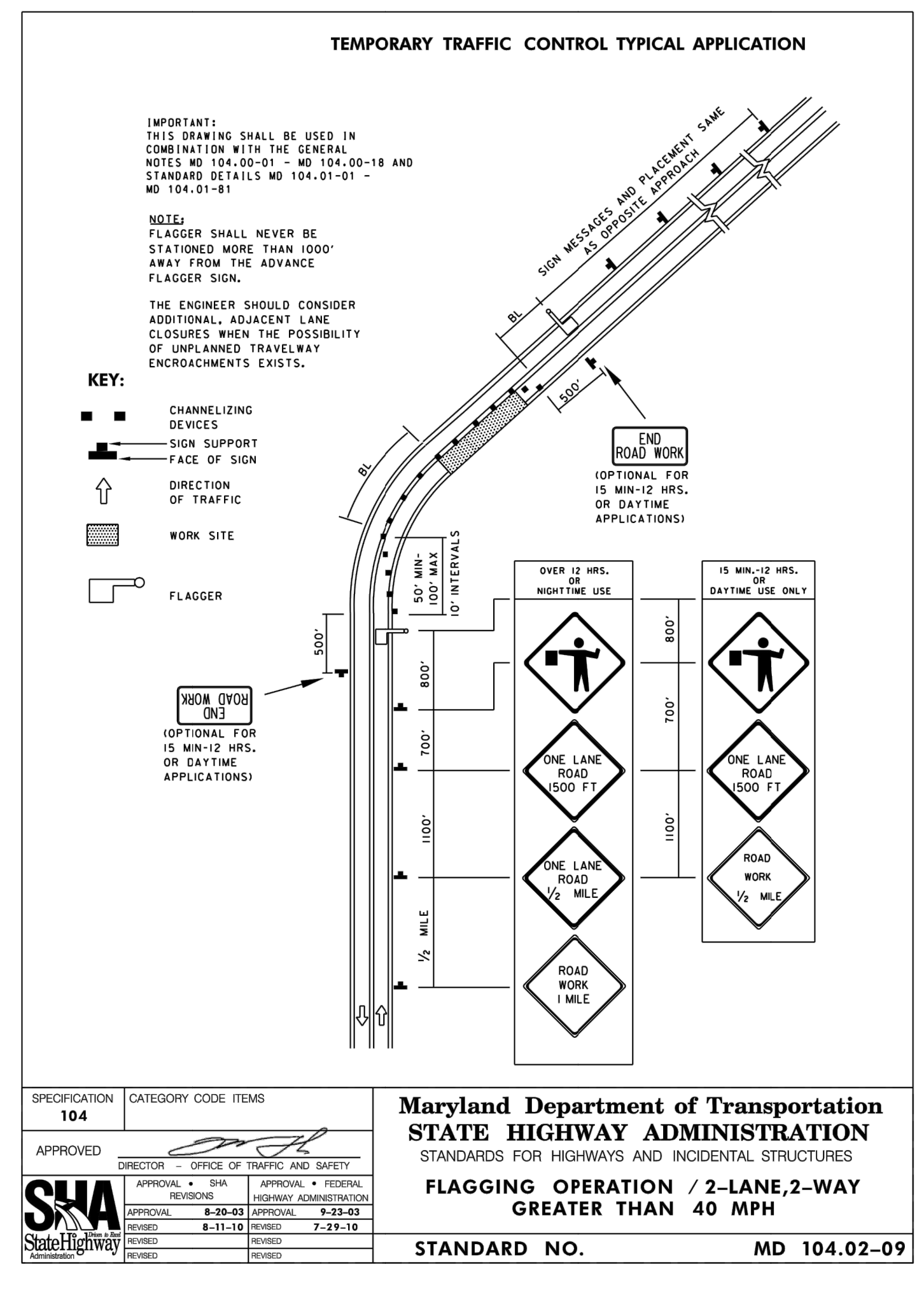
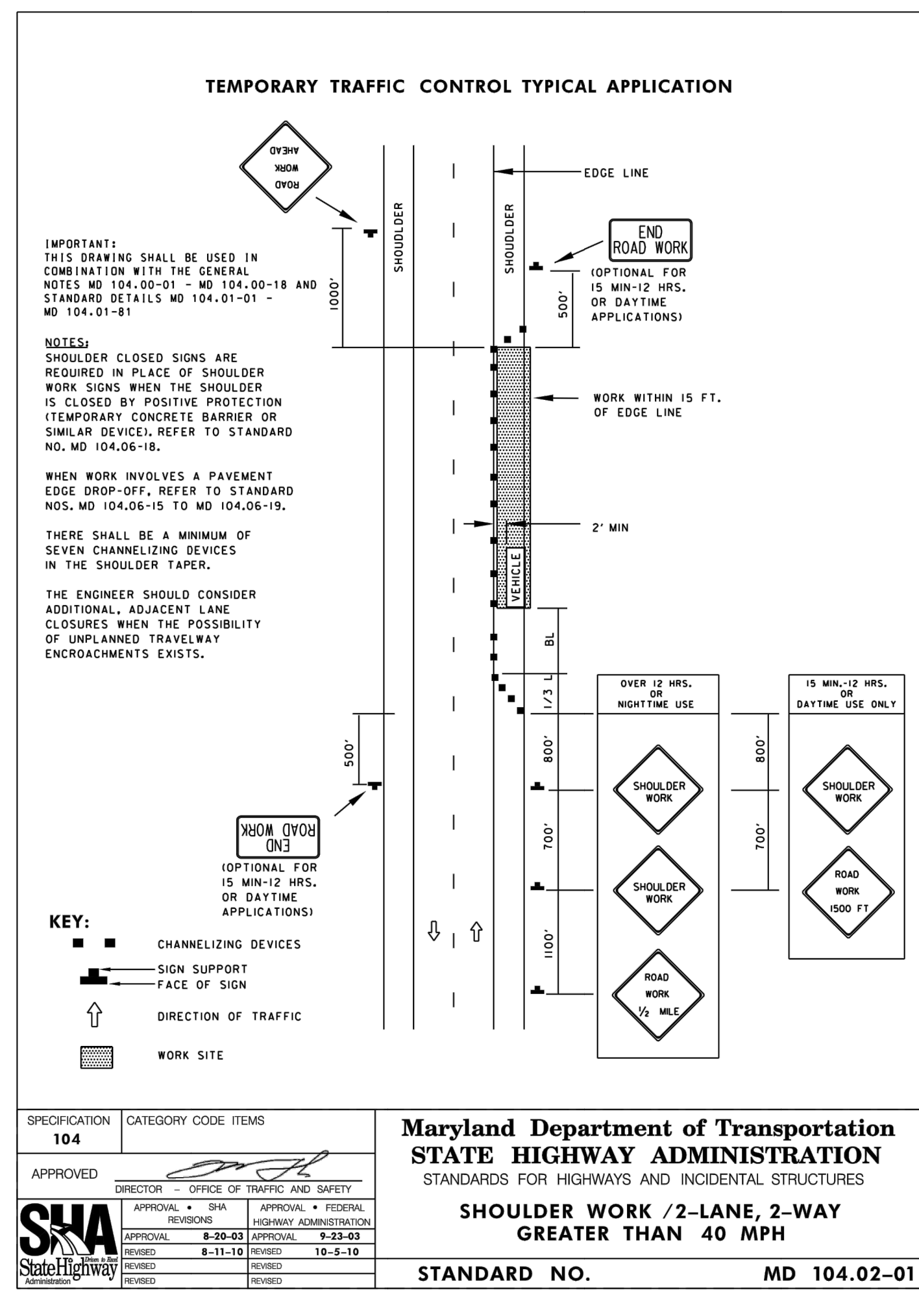
REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: 1" = 30'	DEALE COMMUNITY PARK
CHEIEF ENGINEER	PROJECT MANAGER	DRAWN BY: UJM	SIGNING AND PAVEMENT MARKING PLAN
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: JRS	
ASSISTANT CHIEF ENGINEER	CHEIEF, RIGHT-OF-WAY	SHEET NO. 29 OF 34	
		PROJECT NO.: P582001	
		CONTRACT NO.: P582001	

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P:\2017\17141805\Drawings\08-Traffic\17141805-C203_MOT_Plan.dwg Feb. 08, 2023 - 9:09am Plot By: remith



TRAFFIC CONTROL GENERAL NOTES

- ALL STANDARD REGULATORY, WARNING AND CONSTRUCTION SIGNS USED FOR MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE MARYLAND EDITION OF STANDARD HIGHWAY SIGNS.
- TEMPORARY TRAFFIC SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION (MDOT SHA) STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES, SECTION 104.00-06 & 07, MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS FOR CONSTRUCTION, AND AS APPROVED BY THE ENGINEER.
- CONTRACTOR SHALL FIELD LOCATE ALL TEMPORARY SIGNS TO BE INSTALLED ON WOOD SUPPORTS A MINIMUM OF 7 CALENDAR DAYS PRIOR TO INITIATING WORK. CONTRACTOR MUST RECEIVE WRITTEN APPROVAL OF THE SIGN LOCATIONS AND MOUNTINGS FROM THE ENGINEER PRIOR TO INSTALLATION.
- ALL TEMPORARY TRAFFIC SIGN LOCATIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
- ALL TEMPORARY TRAFFIC SIGNS SHALL BE PLACED SO THAT THEY DO NOT OBSTRUCT EXISTING TRAFFIC CONTROL DEVICES OR CREATE SIGHT DISTANCE OBSTRUCTIONS FROM CROSS STREETS OR DRIVEWAYS.
- BUSINESS AND RESIDENCE ACCESS MUST BE MAINTAINED DURING CONSTRUCTION OPERATIONS.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL TRAFFIC CONTROL DEVICES.
- ALL SIGNS SHALL CONFORM TO CURRENT MDOT SHA MATERIAL AND REFLECTIVITY REQUIREMENTS.
- ALL CONFLICTING EXISTING SIGNING SHALL BE COVERED/MODIFIED.
- TRUCK CROSSING SIGNS (W11-10(1)) SHALL BE INSTALLED IN ADVANCE OF CONSTRUCTION ACCESS POINTS PER MDOT SHA STANDARDS MD 104.00-08 AND MD 104.00-13.
- THE SHOULDER CLOSURE FOR WORK ADJACENT TO THE ROADWAY SHALL BE IN CONFORMANCE WITH MDOT SHA STANDARD MD 104.02-01 UNLESS OTHERWISE NOTED.
- REFER TO EROSION AND SEDIMENT CONTROL PLANS FOR FURTHER DETAILS REGARDING THE SEQUENCE OF CONSTRUCTION.
- THE LUMP SUM PAY ITEM FOR MAINTENANCE OF TRAFFIC PROVIDES COMPENSATION FOR ALL MATERIALS, TOOLS, LABOR, AND INCIDENTALS NECESSARY TO MAINTAIN TRAFFIC THROUGH THE WORK ZONE WHICH ARE NOT INCLUDED IN OTHER CONTRACT PAY ITEMS.

TRAFFIC CONTROL SEQUENCE OF CONSTRUCTION

- STAGE 1A**
- RELOCATE UTILITIES AS NECESSARY UTILIZING MDOT SHA STANDARDS MD 104.02-01 AND MD 104.02-09 AS NECESSARY TO COMPLETE THE WORK.
- STAGE 1B**
- INSTALL E&S CONTROL MEASURES AS DETAILED IN THE E&S PLANS.
 - INSTALL MOT INCLUDING ADVANCE WARNING SIGNING AND WORK AREA PROTECTION UTILIZING MDOT SHA STANDARDS MD 104.02-01 AND MD 104.02-09.
 - CONSTRUCT THE MD 256 ROADWAY WIDENING ADJACENT TO THE SITE WHILE MAINTAINING ACCESS TO HIDDEN HARBOR MARINA AND THE RESIDENCES AT 5916 AND 5916A DEALE CHURCHTON ROAD AND 5958 ROCKHOLD DRIVE (DRIVEWAY CONNECTION IS TO DEALE CHURCHTON ROAD).
- STAGE 2**
- CONSTRUCT THE SITE OFF THE EXISTING ROADWAY (MD 256) WHILE MAINTAINING ACCESS TO HIDDEN HARBOR MARINA AND THE RESIDENCES AT 5916 AND 5916A DEALE CHURCHTON ROAD AND 5958 ROCKHOLD DRIVE (DRIVEWAY CONNECTION IS TO DEALE CHURCHTON ROAD).
 - UTILIZE MDOT SHA STANDARDS MD 104.02-01 AND MD 104.02-09 AS NECESSARY FOR CONSTRUCTION OF THE SITE.
- STAGE 3**
- REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES.
 - INSTALL FINAL SURFACE COURSE.
 - INSTALL PROPOSED SIGNING AND PERMANENT PAVEMENT MARKINGS AS DETAILED IN THE SIGNING AND PAVEMENT MARKING PLANS.



I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #27734 Expiration Date: 07/12/2024

REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	
SCALE: N.T.S.		DRAWN BY: I.J.M.	
CHECKED BY: J.R.S.		SHEET NO. 30 OF 34	
PROJECT NO.: P582001		CONTRACT NO.: P582001	
DEALE COMMUNITY PARK			
MAINTENANCE OF TRAFFIC PLAN			

ELECTRICAL LEGEND

SITE

- DIRECT BURIED CONDUIT
 - UNDERGROUND CONCRETE ENCASED DUCTBANK - SIZE AS INDICATED ON DWGS.
 - HANDHOLE
 - POLE MOUNTED SITE LIGHTING FIXTURE, TYPE AS NOTED
- #### SWITCHES
- DIMMER SWITCH WITH 2 HOUR TIMES. MOUNT AT 4'-0" AFF TO TOP.
 - EXTERIOR PHOTOCCELL - WALL MOUNTED 11'-0" AFF
 - CONTACTOR IN NEMA 3R ENCLOSURE UON. MOUNT 5'-6" AFF TO TOP, UON.
- #### OUTLETS
- DUPLEX RECEPTACLE; 2P, 3W, 20A, 125V, NEMA 5-20R; GROUND FAULT INTERRUPTING; WEATHERPROOF, WHILE IN USE. MOUNT 24" AFG, UON.

POWER

- PANELBOARD - SURFACE, RECESSED MOUNTED, M.H. 6'-6" AFF TO TOP OF PANEL
- TRANSFORMER
- JUNCTION BOX - WALL MOUNTED

MISCELLANEOUS

- DENOTES REFERENCE TO DRAWING NOTE
- DETAIL REFERENCE: DETAIL NUMBER/DRAWING NUMBER

CONDUIT

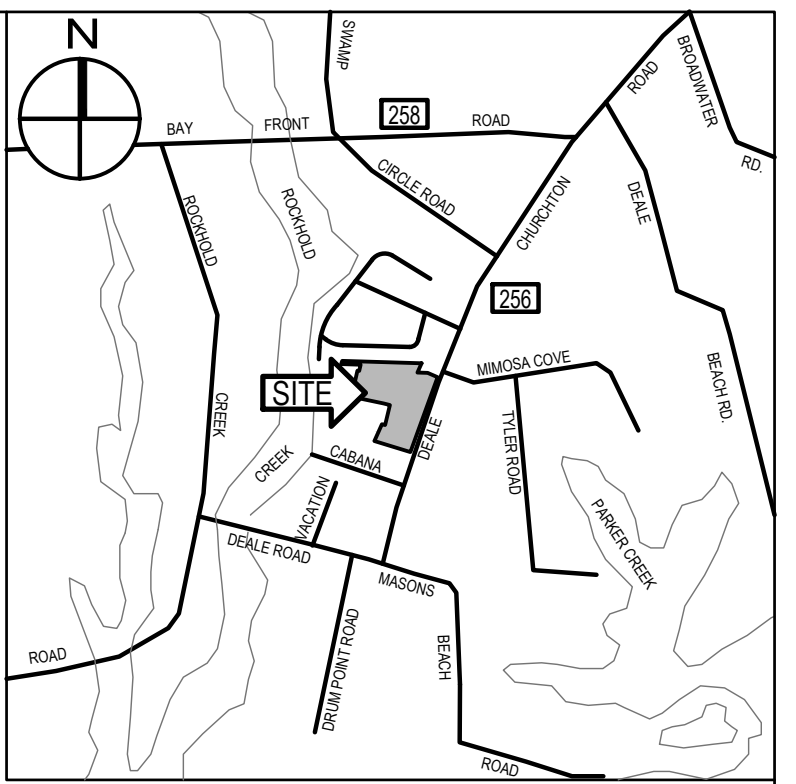
- HOMERUN TO PANELBOARD; NUMBER OF ARROWHEADS INDICATE NUMBER OF CIRCUITS; REFER TO PANEL SCHEDULES FOR MINIMUM WIRE AND CONDUIT SIZES
- CONDUIT OR WIRE CONCEALED IN CEILING SPACE, WALL OR SURFACE MOUNTED WHERE NO CEILING EXISTS
- CONDUIT OR WIRE ROUTED BELOW GRADE.

ABBREVIATIONS

- A AMPERE, AMPERES
- AFG ABOVE FINISHED GRADE
- AHJ AUTHORITY HAVING JURISDICTION
- AL ALUMINUM
- ATS AUTOMATIC TRANSFER SWITCH
- AWG AMERICAN WIRE GAUGE
- BF BALLAST FACTOR
- BGE BALTIMORE GAS & ELECTRIC
- C CONDUIT
- CB CIRCUIT BREAKER
- DIA DIAMETER
- DWG DRAWING
- E EMERGENCY
- ECB ENCLOSED CIRCUIT BREAKER
- EPO EMERGENCY POWER OFF
- ETR EXISTING TO REMAIN
- EX EXISTING
- FLA FULL LOAD AMPERES
- GFI GROUND FAULT INTERRUPTING
- G GROUND
- GW GROUND WIRE
- HP HORSEPOWER
- IG ISOLATED GROUND
- IMC INTERMEDIATE METAL CONDUIT
- KCMIL THOUSAND CIRCULAR MILS
- KVA KILOWATT-AMPERES
- KW KILOWATT
- L LOW
- MCA MINIMUM CIRCUIT AMPERES
- MCB MAIN CIRCUIT BREAKER
- MLO MAIN LUGS ONLY
- MOCP MAXIMUM OVERCURRENT PROTECTION MOUNTED
- MTD MOUNTING HEIGHT/MANHOLE
- MH NATIONAL ELECTRICAL CODE
- NEC NATIONAL ELECTRICAL CODE
- NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
- NF/SS NONFUSED SAFETY SWITCH
- NIC NOT IN CONTRACT
- NO NUMBER
- OC ON CENTERS
- P POLE, POLES
- Ø PHASE
- PNL PANEL
- PVC POLYVINYL CHLORIDE
- RGS RIGID GALVANIZED STEEL
- RX REMOVE EXISTING
- SPD SURGE PROTECTION DEVICE
- TR TAMPER RESISTANT
- TTB TELEPHONE TERMINATION BOARD
- TYP TYPICAL
- UG UNDERGROUND
- V VOLT, VOLTS
- WP WEATHERPROOF
- W WATTS, WIRE, WIRES
- W TRANSFORMER
- XFMR TRANSFORMER
- UON UNLESS OTHERWISE NOTED

GENERAL NOTES:

- THE ELECTRICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE DRAWINGS OF ALL OTHER TRADES ON THE PROJECT. ELECTRICAL OR SYSTEMS CONNECTIONS INDICATED ON ARCHITECTURAL, MECHANICAL, CIVIL, STRUCTURAL, KITCHEN AND ALL OTHER DRAWINGS WHICH ARE PART OF THIS PROJECT, SHALL BE CONSIDERED A PART OF THIS CONTRACT AND SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AT NO EXTRA COST TO THE OWNER.
- THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND AS SUCH SHALL NOT BE SCALED. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DEVICES AND EQUIPMENT AND DIMENSIONAL INFORMATION PRIOR TO ROUGH-IN. COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN OF SERVICE EQUIPMENT AND WIRING.
- COORDINATE MOUNTING HEIGHTS OF ALL DEVICES WITH ARCHITECTURAL PLANS, SECTIONS, ELEVATIONS AND CASEWORK DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT ROUTING OF WIRING AND CONDUITS AND SHALL BE RESPONSIBLE FOR SIZING ALL BRANCH CIRCUIT WIRING TO LIMIT VOLTAGE DROP TO 3%%. CONTRACTOR SHALL SIZE CONDUIT TO ACCOMMODATE WIRING PER NEC. 20 AMPERE CIRCUITS SHALL BE SIZED AS FOLLOWS:



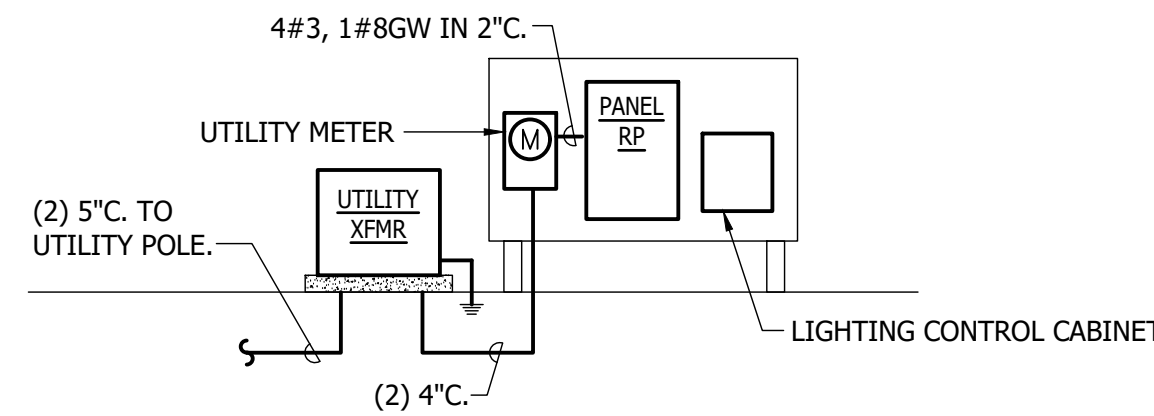
VICINITY MAP SCALE: 1" = 2,000'

20 AMPERE CIRCUITS				
120 VOLT		277 VOLT		MINIMUM CONDUIT SIZE
WIRING LENGTH	WIRE SIZE	WIRING LENGTH	WIRE SIZE	
0' - 60'	#12	0' - 130'	#12	3/4"
60' - 100'	#10	130' - 210'	#10	3/4"
100' - 150'	#8	210' - 340'	#8	3/4"
150' - 240'	#6	340' - 540'	#6	3/4"
OVER 240'	#4	OVER 540'	#4	1"

NOTES:
BRANCH CIRCUITS IN PANELBOARDS WITH 200% RATED NEUTRAL BUS, ECM MOTORS AND ALL DIMMED LIGHTING CIRCUITS SHALL HAVE DEDICATED NEUTRAL CONDUCTORS.

WIRING AND CONDUIT SIZES INDICATED IN PANEL SCHEDULES ARE MINIMUM ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT WIRING AND CONDUIT SIZES. CONTRACTOR SHALL PROVIDE SPLICE BLOCKS AND REDUCING PINS AS REQUIRED TO TERMINATE WIRING AND MAKE FINAL CONNECTIONS.

- ALL WIRING IS TO BE ALUMINUM WIRING; ALL BOXES SHALL BE BURIED; THE INSPECTION PLATE SHOULD BE WELDED; 10-YEAR WARRANTY



SCHEMATIC POWER RISER DIAGRAM

- NOTES:
- LIGHTING CONTROL CABINET SHALL BE IN LOCKABLE NEMA 3R ENCLOSURE.
 - REFER TO DETAIL 4/E7.1 FOR LIGHTING CONTROLS FOR PLAZA LIGHTS AND PAVILLION LIGHTS.
 - PROVIDE DIMMING SWITCH FOR PAVILLION LIGHTS.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NO.	VOLTS	INPUT WATTS	LAMP	MOUNTING	REMARKS
P3	LED AREA LUMINAIRE WITH DIE CAST ALUMINUM HOUSING, INTEGRAL MOTION SENSOR, IP66, TYPE III DISTRIBUTION, WET LOCATION LISTED, 20-FT SQUARE STRAIGHT ALUMINUM POLE FINISH TO MATCH	RAB	ALED-L-3T-N/480/WS2	208, 1PH	80	LED 4000K, 10458 LUMENS	POLE MOUNTED	HI/LOW DIMMABLE
P4	SAME AS P3 EXCEPT TYPE IV DISTRIBUTION AND HIGHER OUTPUT P4PL - PLAZA LIGHTING FIXTURES NOT REQUIRED TO HAVE SENSOR, 20-FT SQUARE STRAIGHT ALUMINUM POLE FINISH TO MATCH	RAB	ALED-L-4T-N/480/WS2	208, 1PH	80	LED 4000K, 10616 LUMENS	POLE MOUNTED	HI/LOW DIMMABLE
P5	SAME AS TYPE P5, EXCEPT TYPE V DISTRIBUTION, 20-FT SQUARE STRAIGHT ALUMINUM POLE FINISH TO MATCH	RAB	ALED-L-5T-N/480/WS2	208, 1PH	80	LED 4000K, 11760 LUMENS	POLE MOUNTED	HI/LOW DIMMABLE
G1	8' LED ENCLOSED AND GASKETED INDUSTRIAL FIXTURE WITH FIBERGLASS HOUSING, NEMA 4X GASKET, POLYMERIC LATCHES, POLYCARBONATE LENS, STAINLESS STEEL MOUNTING BRACKETS AND HARDWARE, ELECTRONIC DIMMABLE DRIVER	LITHONIA	FEM-L96-9000LM-LPPFL-MD-MVOLT-G210-40K-80CRI-WLF	120	53.4	LED 4000K, 8080 LUMENS	TIGHT TO STRUCTURE	PROVIDE DIMMING SWITCH MOUNTED AT PAVILLION AREA ONLY TO FUNCTION AT DUSK

NOTES:
1. ALL LIGHTING FIXTURES SHALL BE DESIGN LIGHTS CONSORTIUM (DLC) QUALIFIED PRODUCTS LISTED (QPL) OR ENERGY STAR.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL LED AND DRIVER INFORMATION. PROVIDE DRIVERS FOR VOLTAGE AS INDICATED.
3. FIRST NAMED PRODUCT IS BASIS OF DESIGN. PROVIDE PRODUCTS WHICH INCLUDE ALL FEATURES AND ACCESSORIES AS INDICATED IN THE DESCRIPTION AND MODEL NUMBER OF THE BASIS OF DESIGN PRODUCT.
4. FIXTURE SHALL BE PROVIDED WITH INTEGRAL PHOTOCCELL AND MOTION SENSOR RATED FOR MINIMUM 40 FOOT MOUNTING HEIGHT. MOTION SENSOR SHALL BE PIR TYPE WITH HIGH/LOW/OFF. WATTSTOPPER FSP-2X SERIES OR EQUAL. SEQUENCE OF OPERATION: FIXTURE SHALL ONLY OPERATE FROM DUSK TO DAWN. WHEN MOTION IS DETECTED WITHIN THE SENSOR'S COVERAGE AREA, FIXTURE SHALL BE IN "HIGH MODE" LEVEL. WHEN NO MOTION IS DETECTED FOR THE DURATION OF THE TIME DELAY SETTING (FACTORY PRESET AT 5 MINUTES), THE LIGHTS WILL GO TO THE SELECTABLE LOW MODE (30% OUTPUT). LIGHTS SHALL TURN OFF AFTER 1 HOUR OF NO MOTION. PROVIDE OWNER WITH FSIR-100 HANDHELD REMOTE TOOL FOR SETTING UP THE FSP-2X1. PROVIDE TRAINING TO FOR CHANGING ADJUSTABLE SETTINGS.

PANEL RP												MOUNTING: FREESTANDING NEMA 4X SS																	
VOLTAGE: 208/120V, 3 PH, 4W												60 A MCB						100% RATED NEUTRAL BUS						25,000 A.I.C.					
CONN	CIRCUIT WIRING										CIRCUIT WIRING										CONN								
KVA	CKT	DESCRIPTION	P	AMPS	NO	SIZE	GND	C	CKT	DESCRIPTION	P	AMPS	NO	SIZE	GND	C	KVA												
0.4	1	PAVILLION LTG	1	20	2	8	10	1	2	PARKING LOT DRIVE	2	20	3	6	10	1	0.4												
0.8	3	PAVILLION REC	1	20	2	8	10	1	4	-							0.4												
0.2	5	CONTROLS	1	20	2	12	12	3/4	6	PARKING LOT SOUTH	2	20	3	6	10	1	0.4												
	7	SPARE	1	20					8	-							0.4												
	9	SPARE	1	20					10	PARKING LOT NORTH	2	20	3	6	10	1	0.6												
	11	SPARE	1	20					12	-							0.6												
	13	SPACE	1						14	SPACE	1																		
	15	SPACE	1						16	SPACE	1																		
	17	SPACE	1						18	SPACE	1																		
	19	SPACE	1						20	SPACE	1																		
TOTAL CONNECTED LOAD			4.1 KVA				KVA PER PHASE:						A 0.8 B 1.2 C 0.6																

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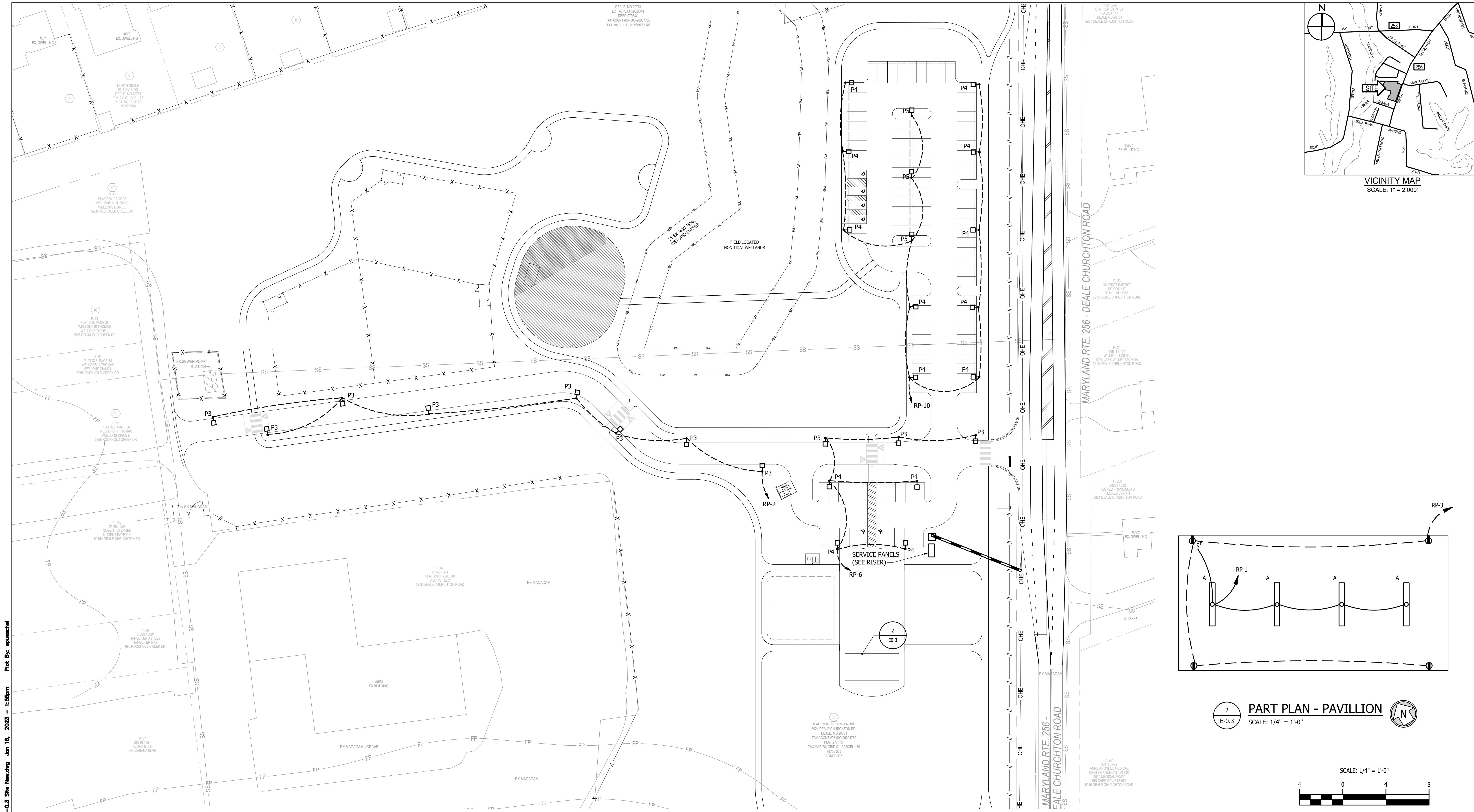
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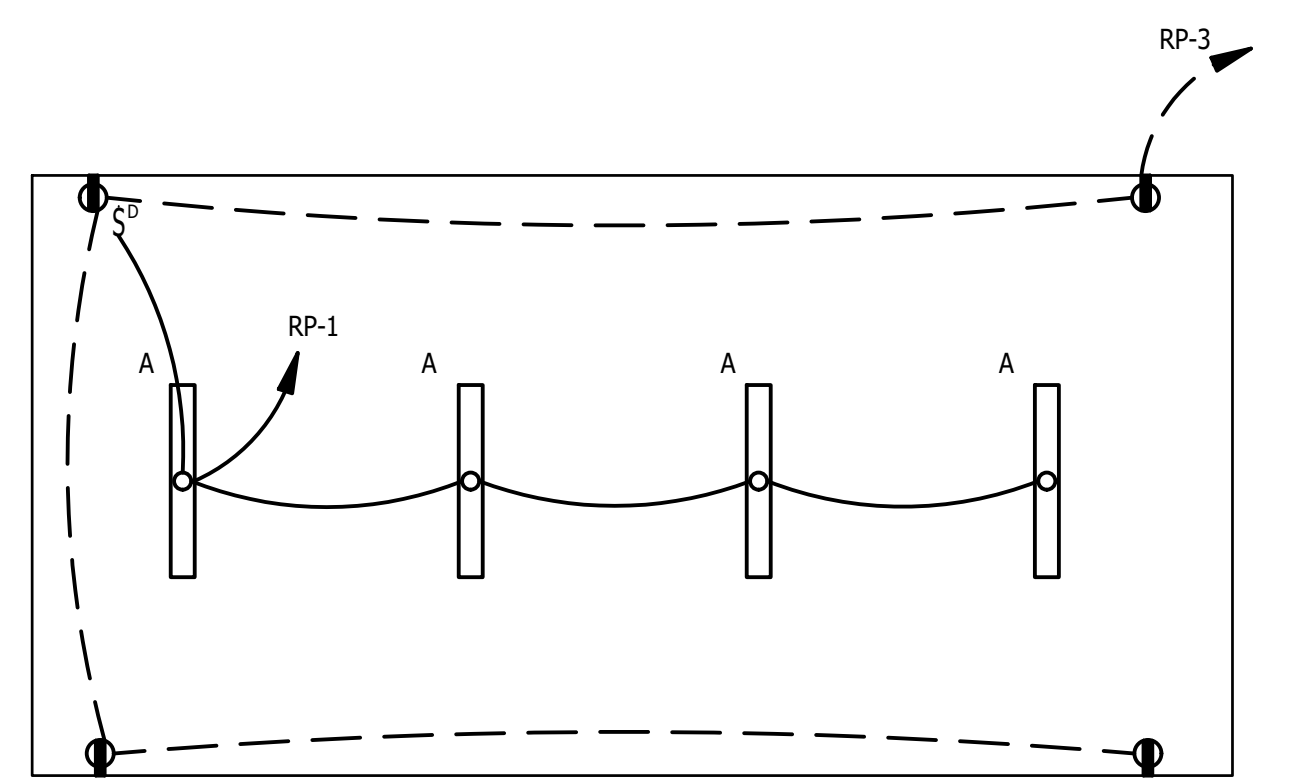
ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: NONE	DEALE COMMUNITY PARK
CHIEF ENGINEER _____	PROJECT MANAGER _____	CHECKED BY: E.M.P.	
APPROVED _____ DATE _____	APPROVED _____ DATE _____	SHEET NO. 31 OF 34	
ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT-OF-WAY _____	PROJECT NO.: P582001	ELECTRICAL LEGEND
		CONTRACT NO.: P582001	

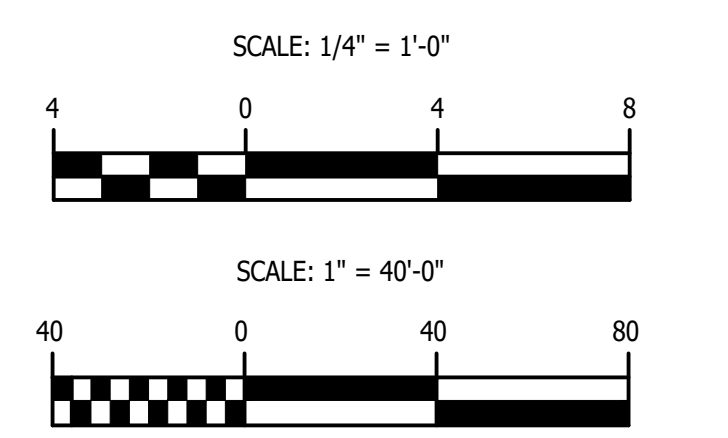
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1 OVERALL SITE PLAN - NEW WORK
 SCALE: 1" = 40'-0"



2 PART PLAN - PAVILLION
 SCALE: 1/4" = 1'-0"



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Eric Suenchid
 PROFESSIONAL ENGINEER
 LICENSE NO. 44837
 EXPIRES 12/22/2023

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License #44837 Expiration Date: 12/22/2023

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APPROVED _____ DATE _____

CHIEF ENGINEER _____ PROJECT MANAGER _____

APPROVED _____ DATE _____

ASSISTANT CHIEF ENGINEER _____ CHIEF, RIGHT-OF-WAY _____

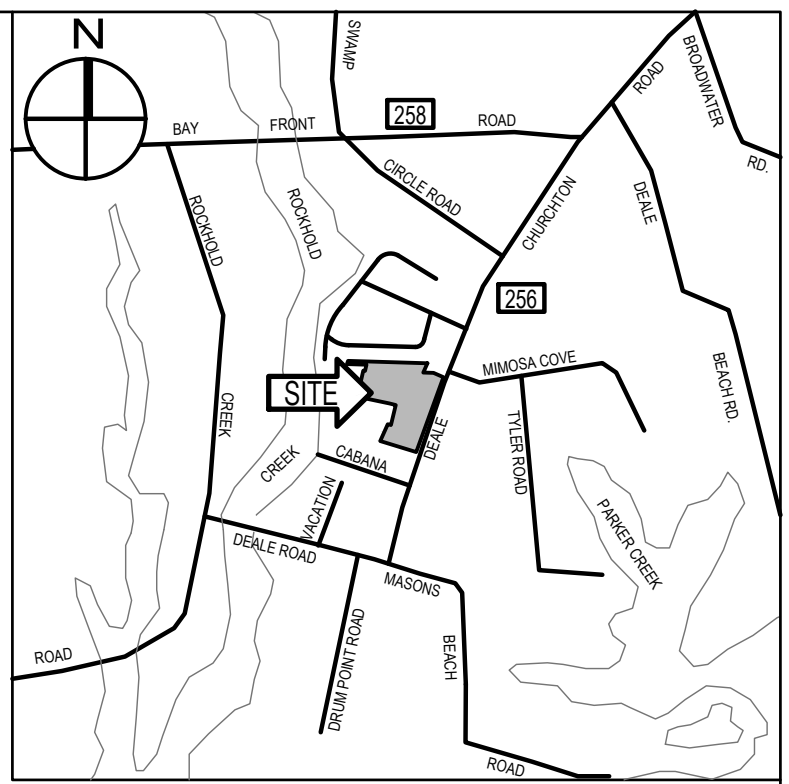
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SCALE: 1" = 40'-0"
 DRAWN BY: J.L.P.
 CHECKED BY: E.M.P.
 SHEET NO. 32 OF 34
 PROJECT NO.: P582001
 CONTRACT NO.: P582001

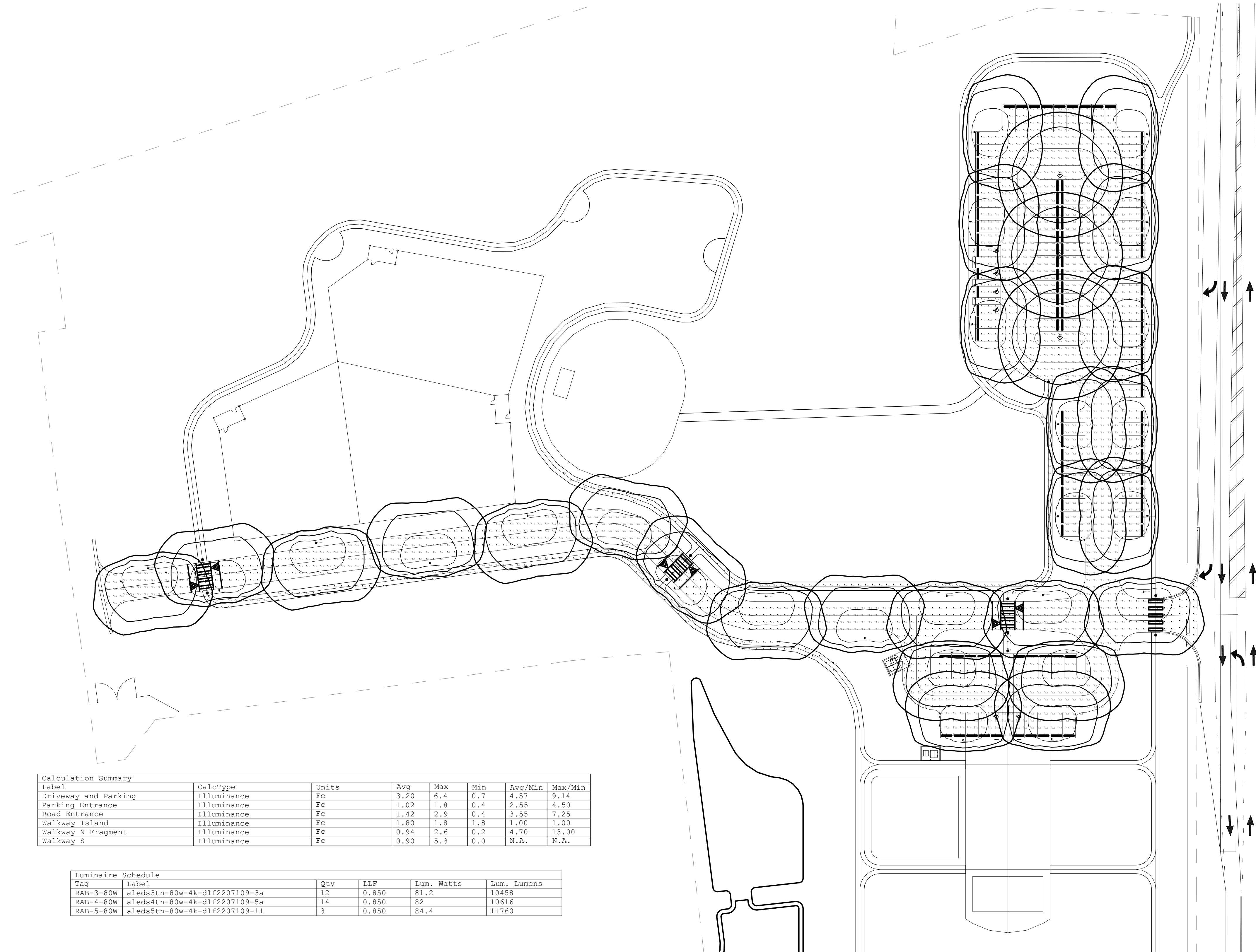
DEALE COMMUNITY PARK

OVERALL SITE PLAN
 ELECTRICAL

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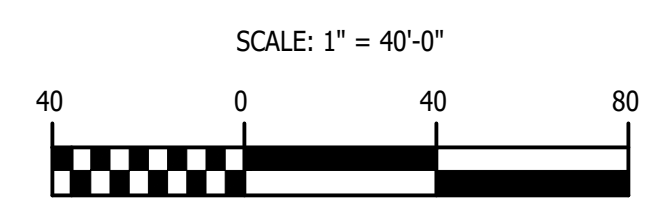
VICINITY MAP
SCALE: 1" = 2,000'



Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Driveway and Parking	Illuminance	Fc	3.20	6.4	0.7	4.57	9.14
Parking Entrance	Illuminance	Fc	1.02	1.8	0.4	2.55	4.50
Road Entrance	Illuminance	Fc	1.42	2.9	0.4	3.55	7.25
Walkway Island	Illuminance	Fc	1.80	1.8	1.8	1.00	1.00
Walkway N Fragment	Illuminance	Fc	0.94	2.6	0.2	4.70	13.00
Walkway S	Illuminance	Fc	0.90	5.3	0.0	N.A.	N.A.

Tag	Label	Qty	LLF	Lum. Watts	Lum. Lumens
RAB-3-80W	aleds3tn-80w-4k-dlf2207109-3a	12	0.850	81.2	10458
RAB-4-80W	aleds4tn-80w-4k-dlf2207109-5a	14	0.850	82	10616
RAB-5-80W	aleds5tn-80w-4k-dlf2207109-1l	3	0.850	84.4	11760

1 PHOTOMETRIC SITE PLAN
E-0.3 SCALE: 1" = 40'-0"



SCALE: 1" = 40'-0"
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License #44837 Expiration Date: 12/22/2023

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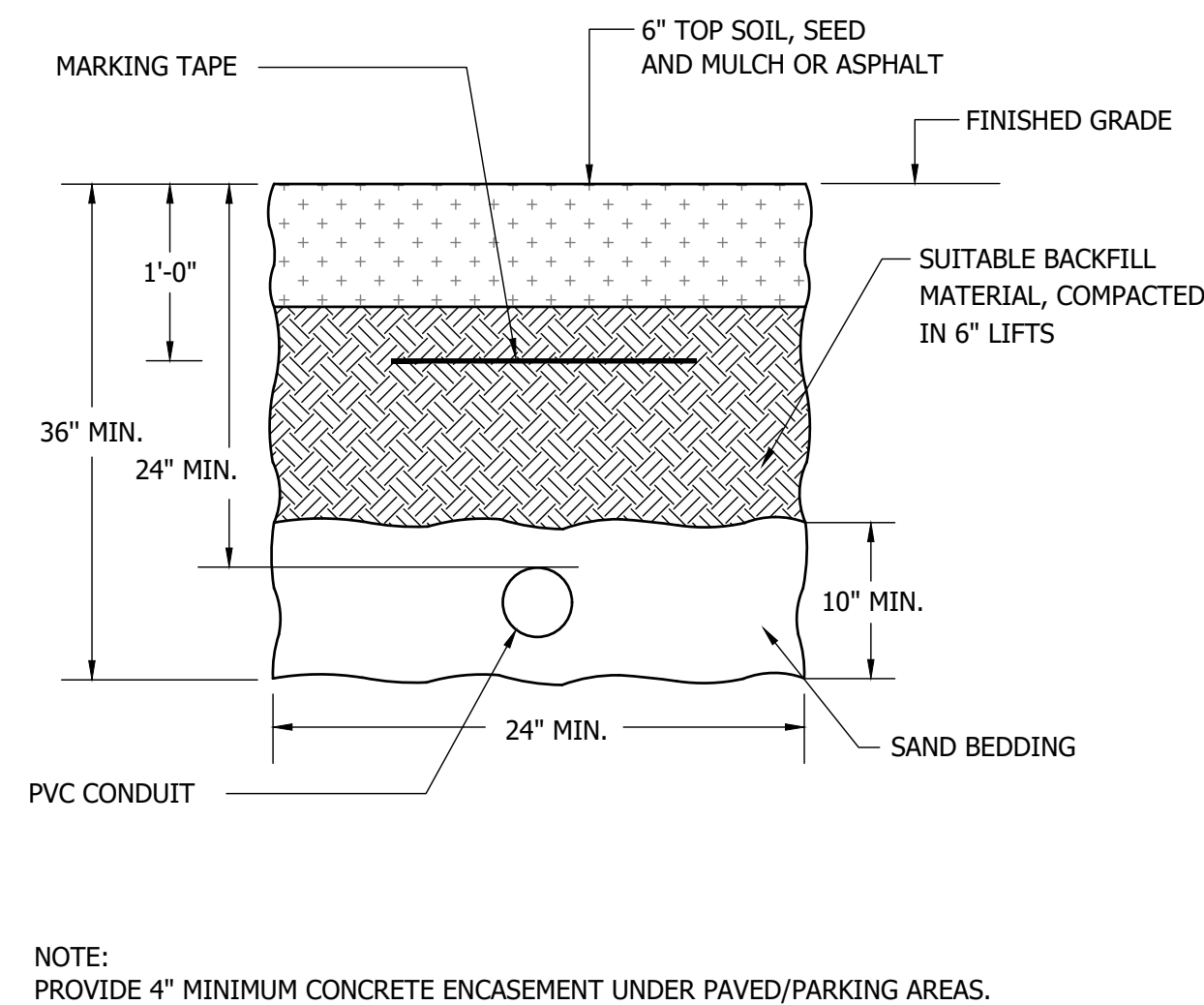
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CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	

SCALE: 1" = 1'-0"
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CHECKED BY: E.M.P.
SHEET NO. 33 OF 34
PROJECT NO.: P582001
CONTRACT NO.: P582001

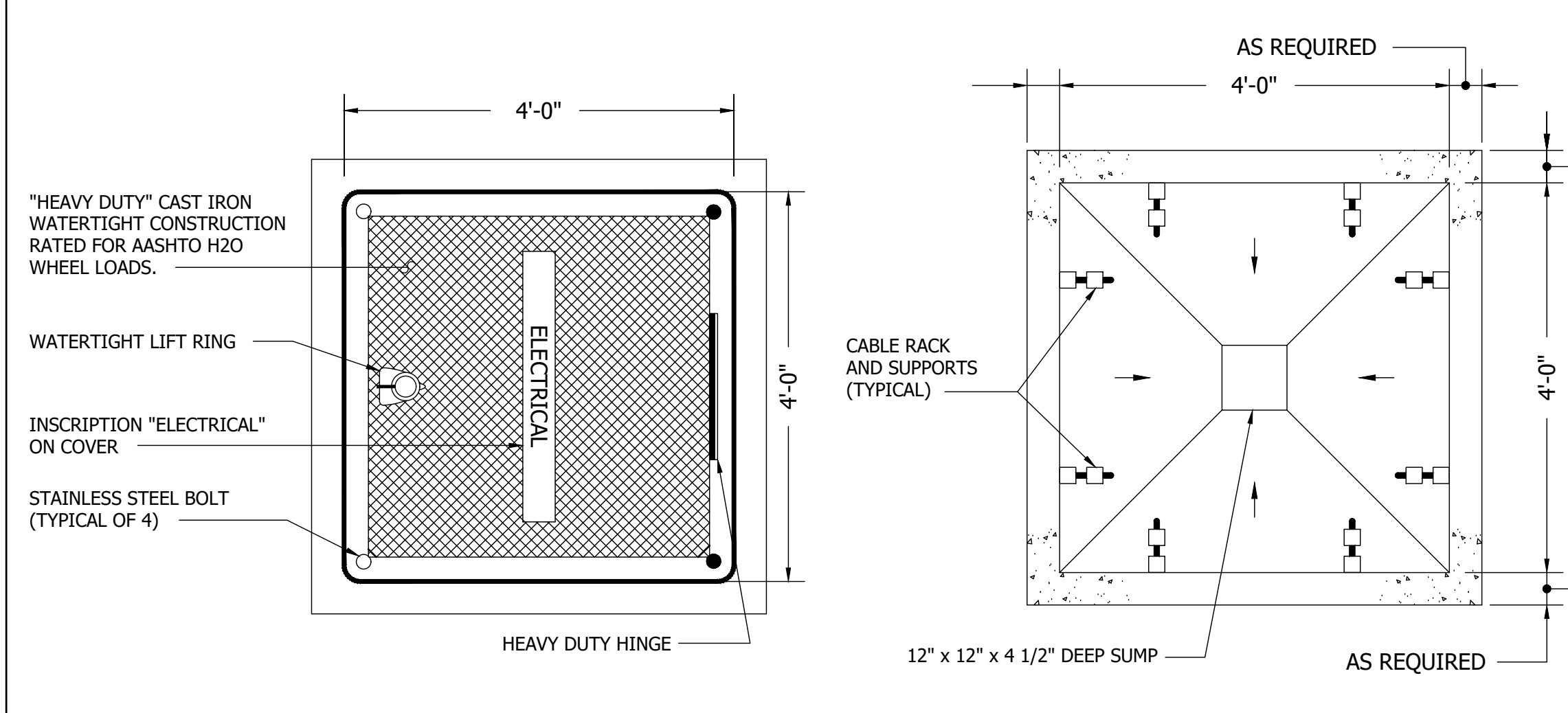
DEALE COMMUNITY PARK

OVERALL SITE PLAN
PHOTOMETRICS

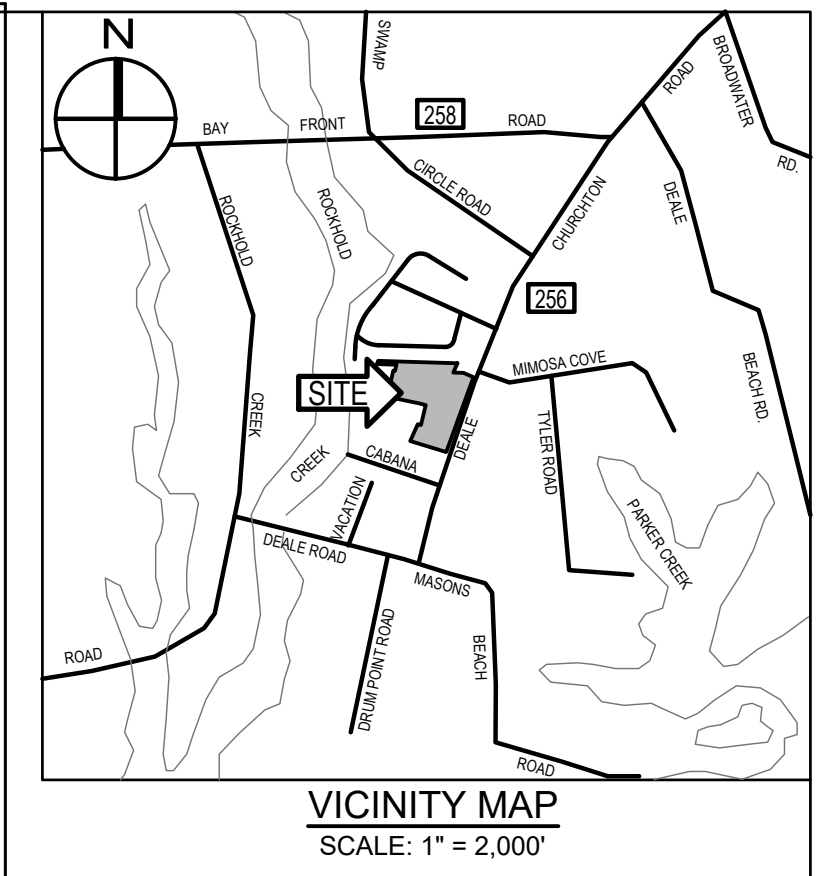
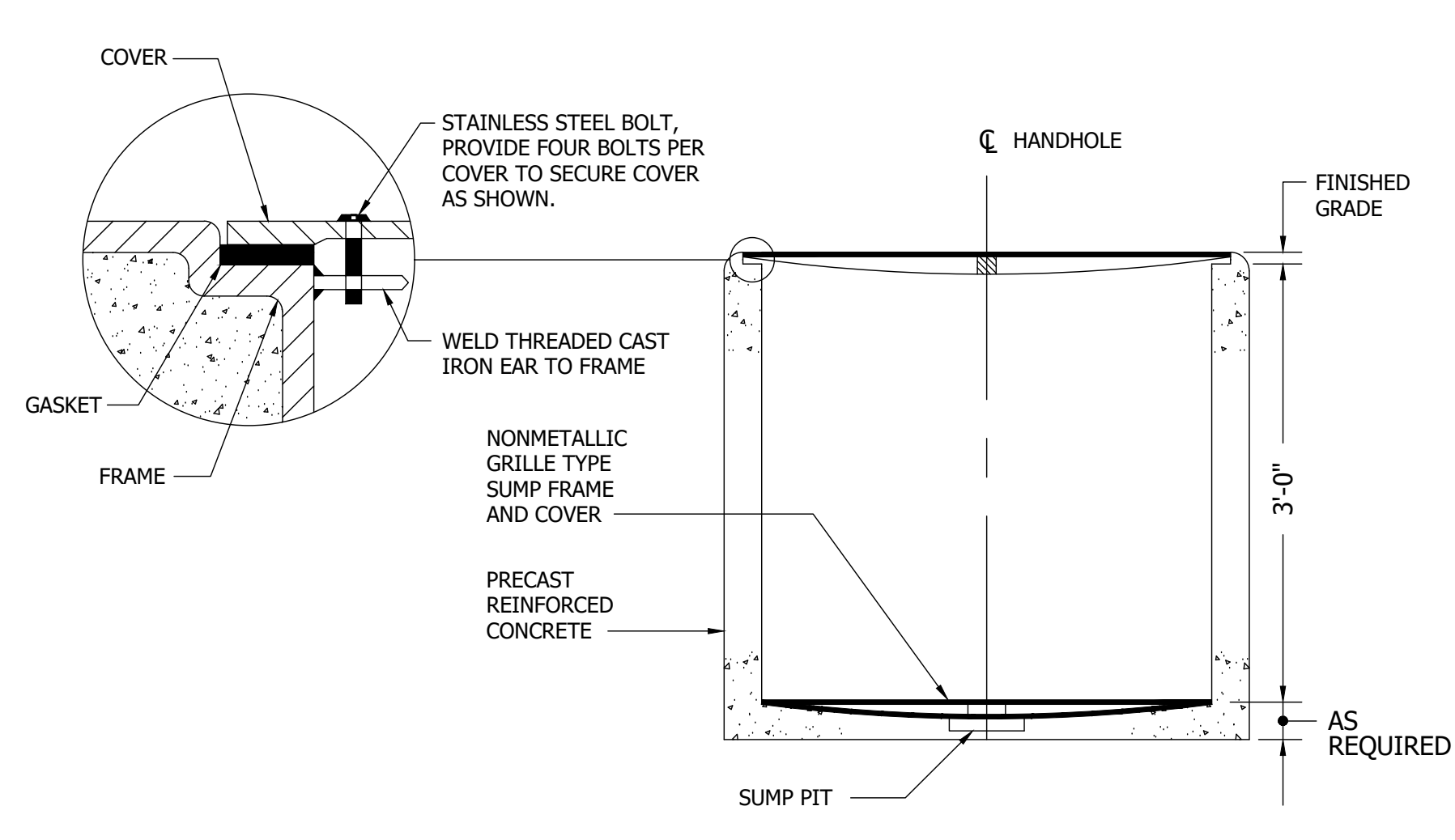
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NOTE:
PROVIDE 4" MINIMUM CONCRETE ENCASEMENT UNDER PAVED/PARKING AREAS.

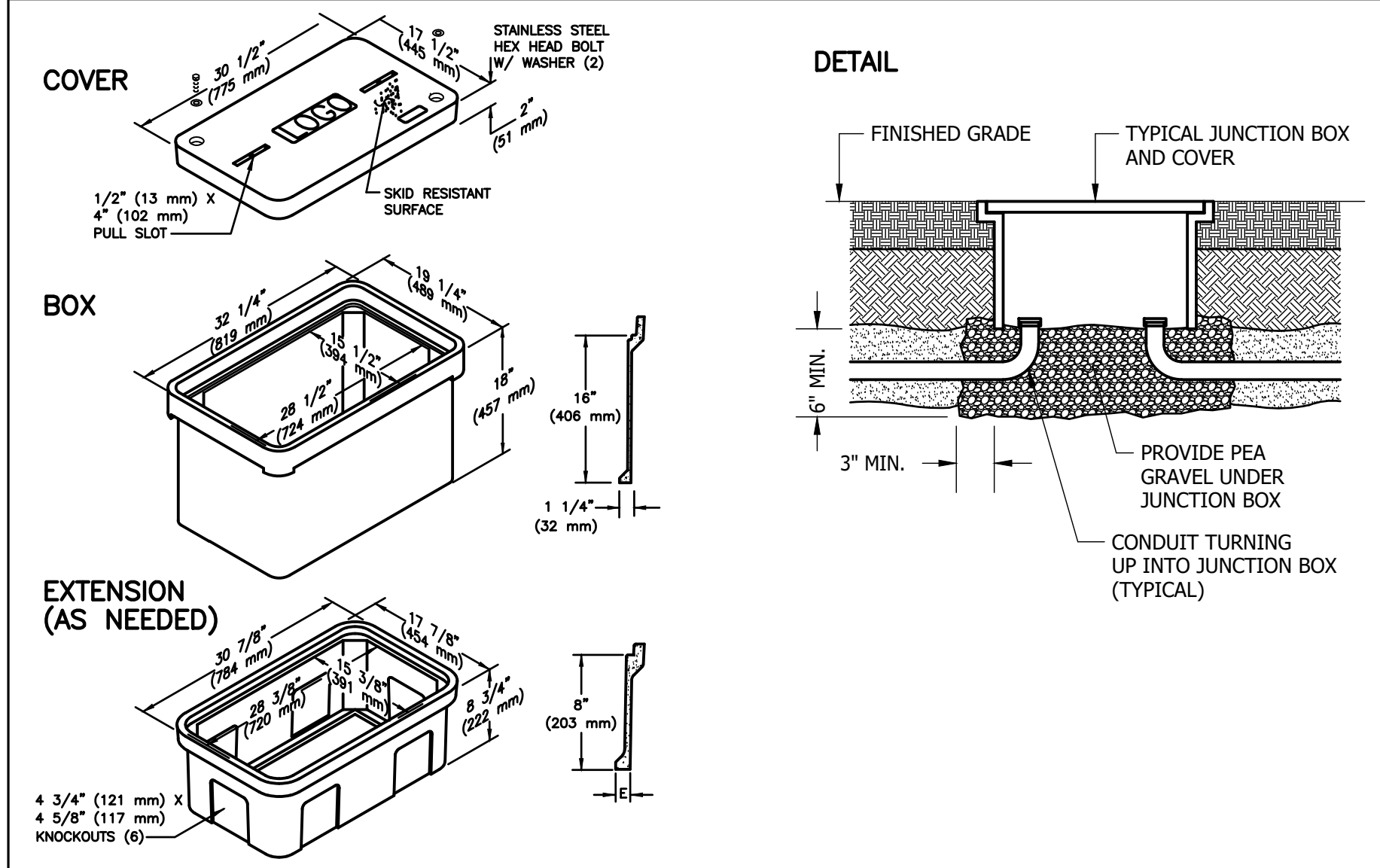


COVER

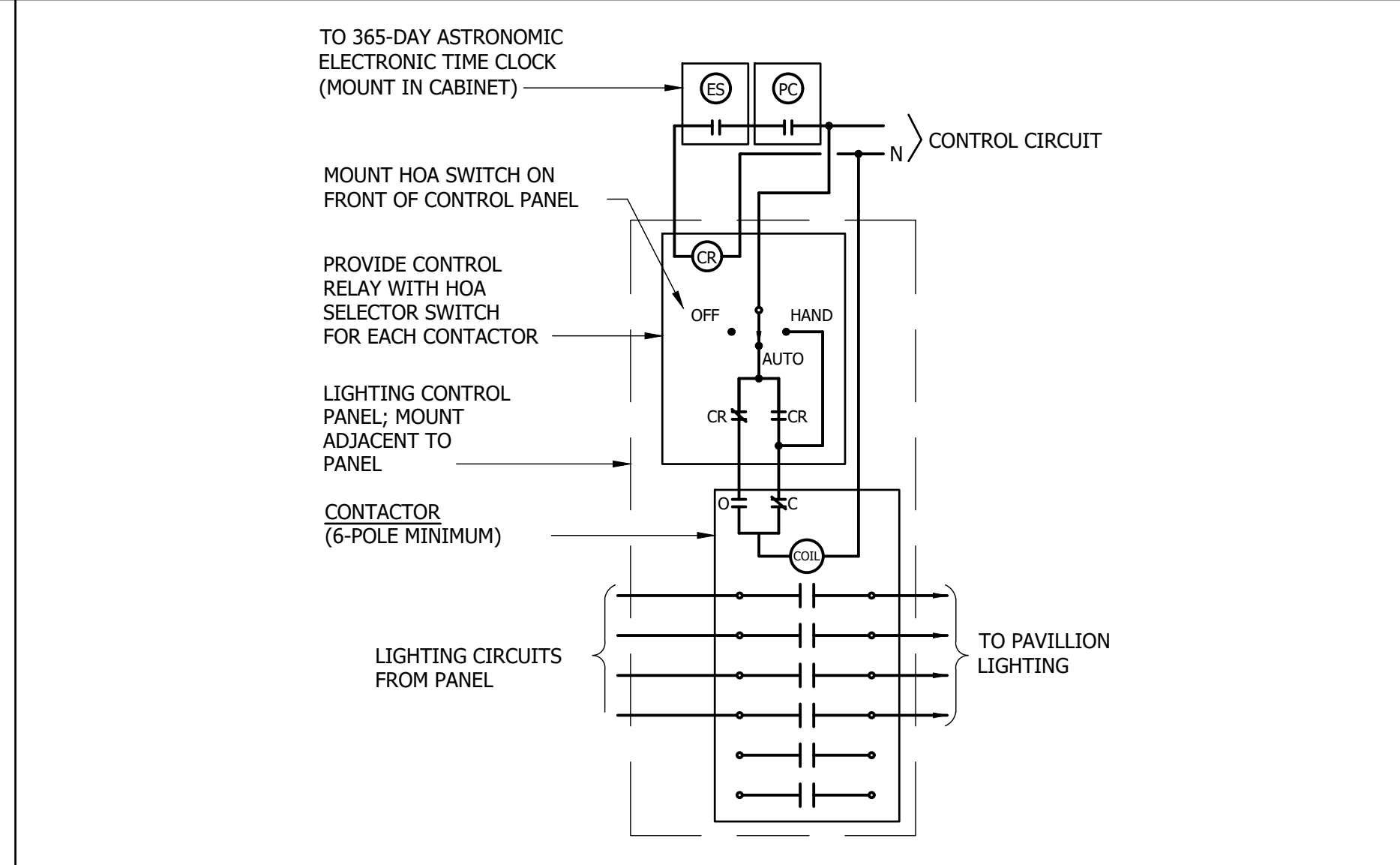


1 TYPICAL DIRECT BURIED PVC CONDUIT

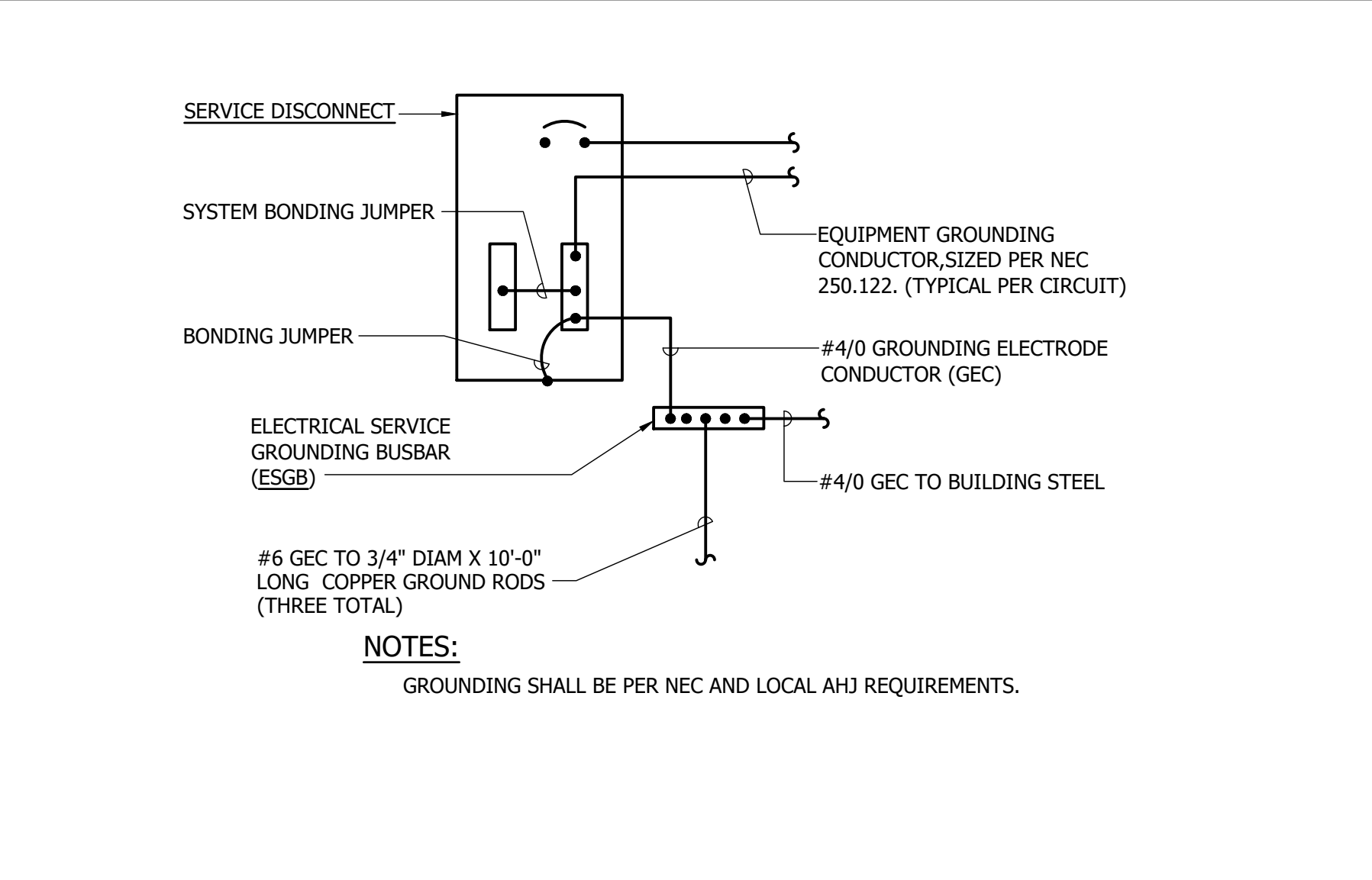
2 TYPICAL ELECTRIC HANDHOLE PLAN



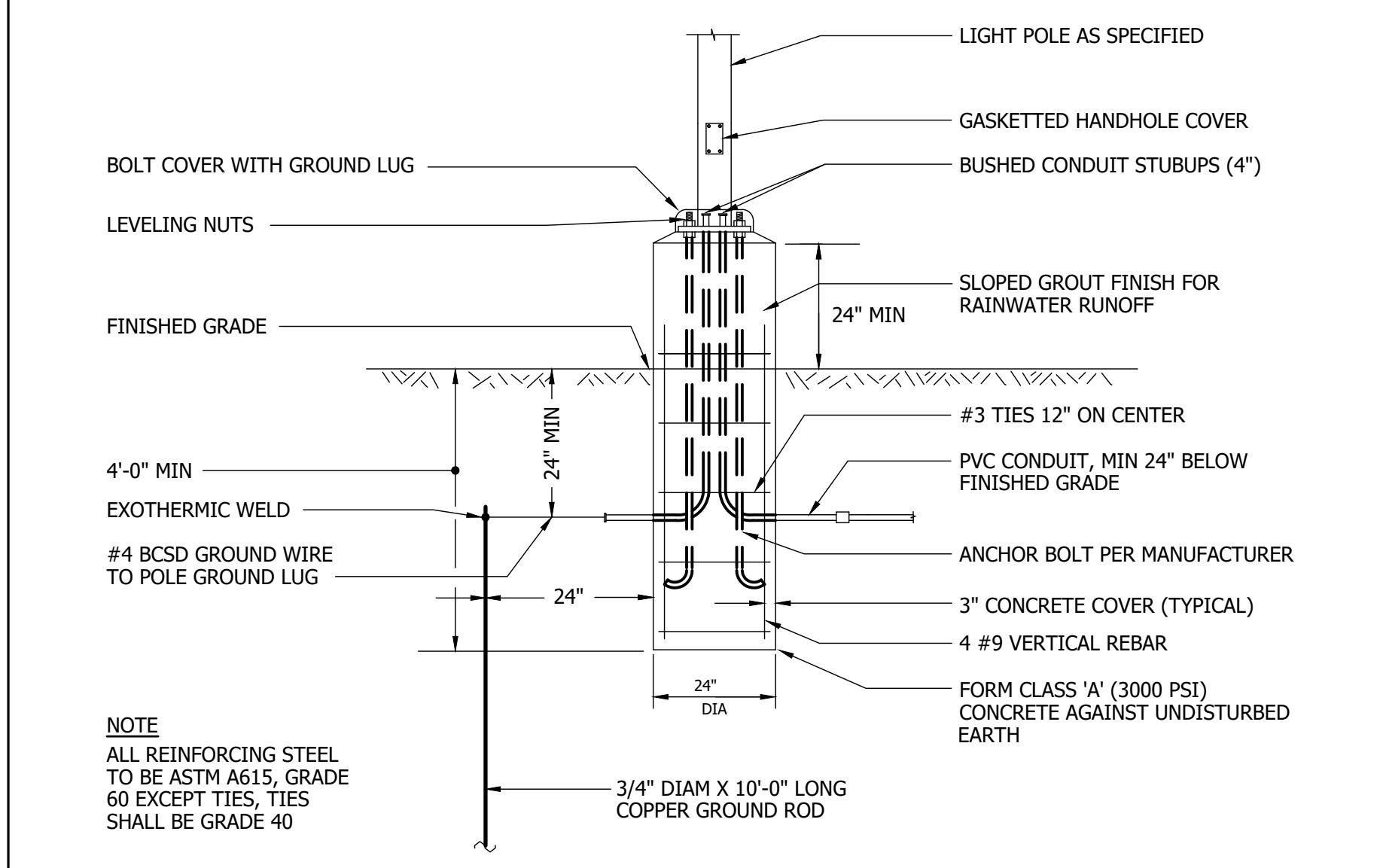
3 EXTERIOR JUNCTION BOX



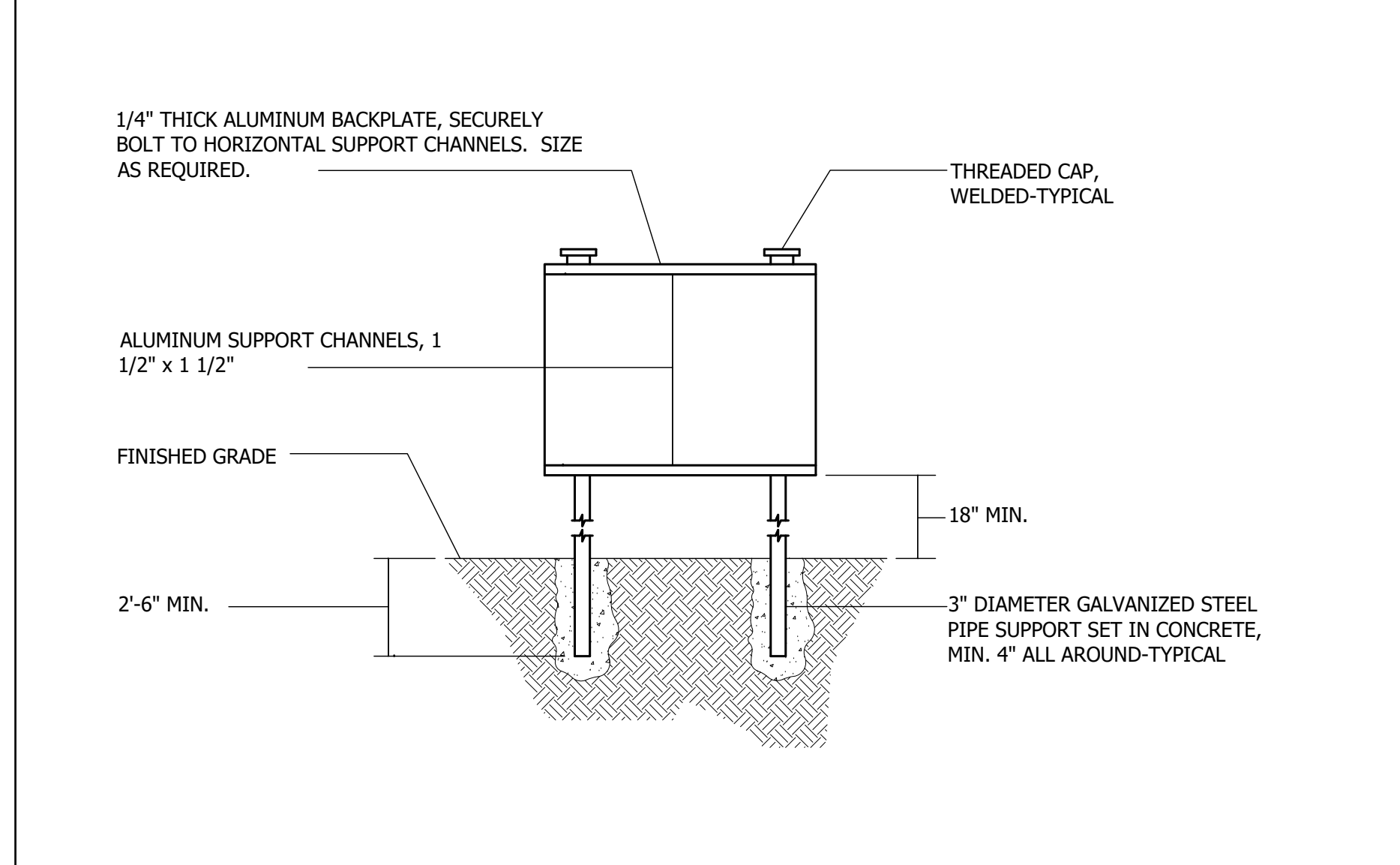
4 PLAZA LIGHTING CONTROLS - PHOTOCELL ON/TIMER OFF



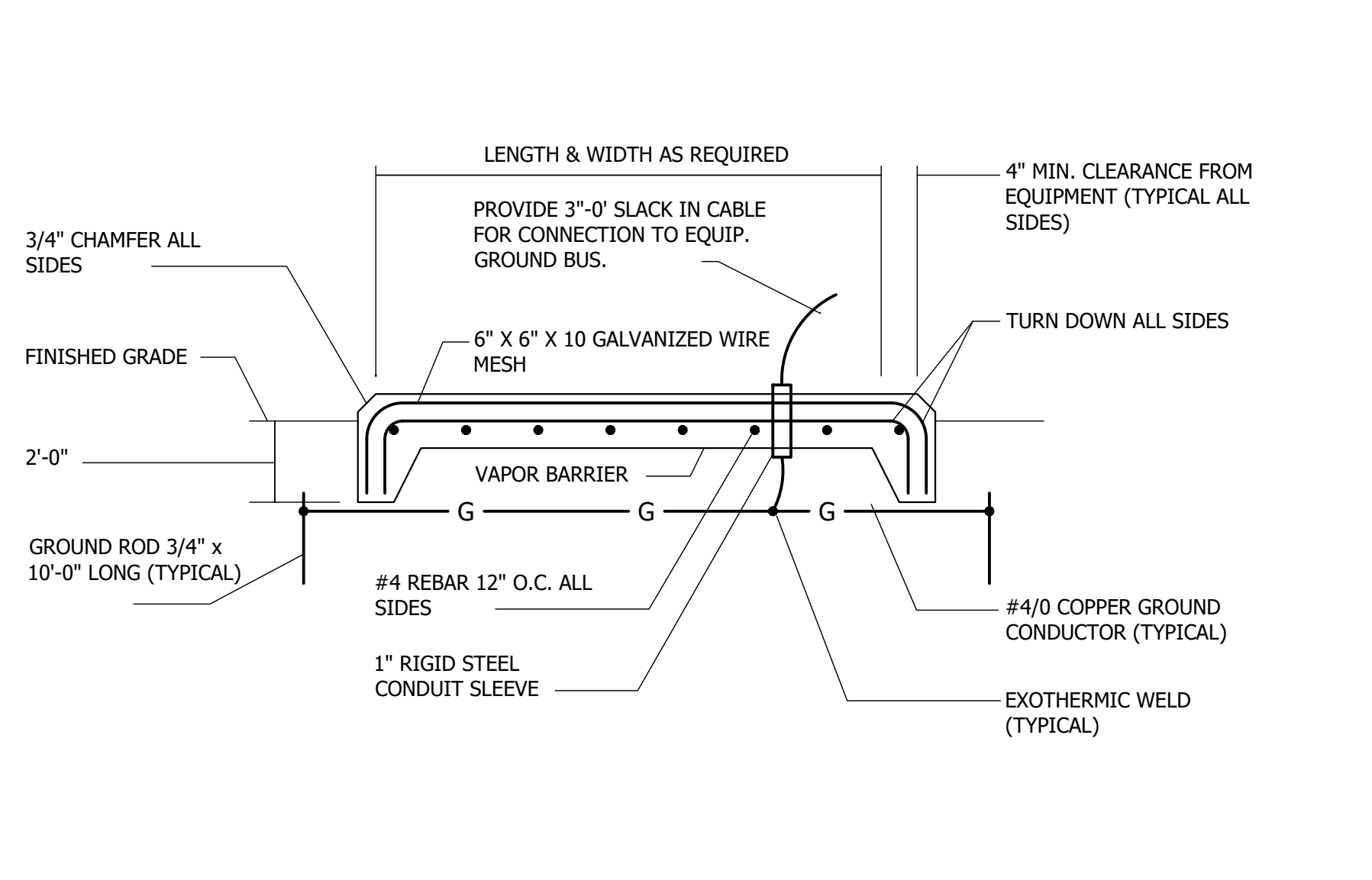
5 SERVICE GROUND WIRING DIAGRAM



6 PARKING AREA POLE BASE



7 DETAIL - EQUIPMENT MOUNTING PEDESTAL



8 DETAIL - CONCRETE EQUIPMENT PAD

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APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	

SCALE: NONE
DRAWN BY: J.L.P.
CHECKED BY: E.M.P.
SHEET NO. 34 OF 34
PROJECT NO.: P582001
CONTRACT NO.: P582001

DEALE COMMUNITY PARK
DETAILS & RISER DIAGRAMS

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