SHEET NUMBER	SHEET TITLE	ORIGINAL DATE	REVISION DATE	
T0.01	COVER SHEET	2/9/2024	4/24/2024	
T0.02	TOPOGRAPHIC SURVEY (SHEET 1 OF 7)	2/9/2024	4/15/2024	
T0.03	TOPOGRAPHIC SURVEY (SHEET 2 OF 7)	2/9/2024	4/15/2024	
T0.04	TOPOGRAPHIC SURVEY (SHEET 3 OF 7)	2/9/2024	4/15/2024	
T0.05	TOPOGRAPHIC SURVEY (SHEET 4 OF 7)	2/9/2024	4/15/2024	
T0.06	TOPOGRAPHIC SURVEY (SHEET 5 OF 7)	2/9/2024	4/15/2024	
T0.07	TOPOGRAPHIC SURVEY (SHEET 6 OF 7)	2/9/2024	4/15/2024	
T0.08	TOPOGRAPHIC SURVEY (SHEET 7 OF 7)	2/9/2024	4/15/2024	
C0.01	GENERAL NOTES (SHEET 1 OF 2)	2/9/2024	4/24/2024	
C0.02	GENERAL NOTES (SHEET 2 OF 2)	2/9/2024	4/24/2024	
C0.03	NCG01 NOTES (SHEET 1 OF 2)	2/9/2024	4/24/2024	
C0.04	NCG01 NOTES (SHEET 2 OF 2)	2/9/2024	4/24/2024	
C1.01	DEMOLITION AND PHASE I ESC PLAN - OVERALL	2/9/2024	4/24/2024	
C1.02	DEMOLITION AND PHASE I ESC PLAN - AREA 1	2/9/2024	4/24/2024	
C1.03	DEMOLITION AND PHASE I ESC PLAN - AREA 2	2/9/2024	4/24/2024	
C2.01	SITE PLAN - OVERALL	2/9/2024	4/24/2024	
C2.02	SITE PLAN – AREA 1	2/9/2024	4/24/2024	
C2.03	SITE PLAN - AREA 2	2/9/2024	4/24/2024	
C3.01	PHASE II ESC PLAN - OVERALL	2/9/2024	4/24/2024	
C3.02	PHASE II ESC PLAN - AREA 1	2/9/2024	4/24/2024	
C3.03	PHASE II ESC PLAN - AREA 2	2/9/2024	4/24/2024	
C3.04	GRADING AND STORM DRAINAGE PLAN - OVERALL	2/9/2024	4/24/2024	
C3.05	GRADING AND STORM DRAINAGE PLAN - AREA 1	2/9/2024	4/24/2024	
C3.06	GRADING AND STORM DRAINAGE PLAN - AREA 2	2/9/2024	4/24/2024	
C3.07	STORM PROFILES	2/9/2024	4/24/2024	
C3.08	BMP DETAILS	2/9/2024	4/24/2024	
C3.09	SAND FILTER DETAILS	2/9/2024	4/24/2024	
C3.10	SAND FILTER PROFILES	4/24/2024	4/24/2024	
C4.01	UTILITY PLAN	2/9/2024	4/24/2024	
C5.01	ESC DETAILS (SHEET 1 OF 2)	2/9/2024	4/24/2024	
C5.02	ESC DETAILS (SHEET 2 OF 2)	2/9/2024	4/24/2024	
C5.03	SITE DETAILS (SHEET 1 OF 4)	2/9/2024	4/24/2024	
C5.04	SITE DETAILS (SHEET 2 OF 4)	2/9/2024	4/24/2024	
C5.05	SITE DETAILS (SHEET 3 OF 4)	2/9/2024	4/24/2024	
C5.06	SITE DETAILS (SHEET 4 OF 4)	2/9/2024	4/24/2024	
C5.07	STORM DETAILS (SHEET 1 OF 4)	2/9/2024	4/24/2024	
C5.08	STORM DETAILS (SHEET 2 OF 4)	2/9/2024	4/24/2024	
C5.09	STORM DETAILS (SHEET 3 OF 4)	2/9/2024	4/24/2024	
C5.10	STORM DETAILS (SHEET 4 OF 4)	2/9/2024	4/24/2024	
C5.11	UTILITY DETAILS	2/9/2024	4/24/2024	
L1.01	LANDSCAPE PLAN	2/9/2024	4/24/2024	
L1.02	LANDSCAPE NOTES AND DETAILS	2/9/2024	4/24/2024	

PROJECT / BUILDING INFORMATION:

SCOPE OF WORK: SITE AREA:

PARCEL ID NUMBER:

DENUDED AREA:

WATERSHED:

RIVER BASIN:

ZONING:

PARKING LOT EXPANSION, EXPANSION OF EXISTING STORMWATER POND, NEW SAND FILTER BMP, WATER/SEWER UTILITY SERVICES FOR FUTURE RESTROOM BUILDING, NEW TENNIS COURTS, AND CONVERSION OF EXISTING TENNIS COURTS TO PICKLEBALL COURTS 61.01 AC 8.0 AC RP (RURAL PRESERVATION)

00713113 ROCKY RIVER YADKIN PEE DEE

B

BAILEY ROAD PARK **EXPANSION - PHASE I 100% CONSTRUCTION DOCUMENTS**

11536 BAILEY ROAD CORNELIUS, NORTH CAROLINA MECKLENBURG COUNTY ACCELA NUMBER: PUB-500002



CONTACTS

OWNER: TOWN OF CORNELIUS ADAM ABERNATHY ASSISTANT DIRECTOR OF PARKS & RECREATION DEPARTMENT 21445 CATAWBA AVENUE CORNELIUS, NC 28031 PH. (704) 892-6031 EXT. 164 AABERNATHY@CORNELIUS.ORG

ENGINEER: DEWBERRY ENGINEERS INC. DANIEL JONES, P.E. 9300 HARRIS CORNERS PKWY, SUITE 220 CHARLOTTE, NC 28269 PH. (704) 631-5208 FAX (704) 509-9937 DJONES@DEWBERRY.COM

LANDSCAPE ARCHITECT: DEWBERRY ENGINEERS INC. TRISTAN M. MCMANNIS, PLA 9300 HARRIS CORNERS PKWY SUITE 220 CHARLOTTE, NC 28269 PH. (704) 264-1233 FAX (704) 509-9937 TMCMANNIS@DEWBERRY.COM

SUB	MITTAL	SET NUMBER	
PRELIMINARY APPROVAL BIDDING	CONSTRUCTION REVISION RECORD		
			-



5

Dewberry Engineers Inc. 9300 Harris Corners Pkwy - Suite 220 Charlotte, NC 28269 Phone: 704.509.9918 Fax: 704.509.9937 www.dewberry.com NCBELS #F-0929 NCBOLA #C-478 CONSTRUCTION DOCUMENTS PARK BAILEY ROAD P EXPANSION - PH SEAL: FOR SITE DESIGN THE DA NIEL CONCENT FOR UTILITY DESIGN ONLY SCALE: REVISIONS 1 04/24/2024 BN/DB AGENCY COMMENTS NO. DATE BY DESCRIPTION DRAWN BY APPROVED BY CHECKED BY **FEBRUARY 9, 2024** DATE TITLE **COVER SHEET** DEI PROJECT NO: 50168691 SHEET NO. T0.01

LEGEND				
➡ FOUND MONUMENT		PROPERTY LINE PER DEED NOT SURVEYED	FEMA	FEDERAL EMERGENCY MANAG
◎ FOUND MONUMENT		TIE LINE	FIRM	FLOOD INSURANCE RATE MAR
- SIGN		EXISTING EASEMENT, APPROXIMATE LOCATION	NAVD	NORTH AMERICAN VERTICAL
riangle set GPS/GNSS GRID TIE	OHE	OVERHEAD UTILITY	GIS	GEOGRAPHICAL INFORMATION
Ø UTILITY POLE	F0 F0	UNDERGROUND FIBER OPTIC LINE	NCGS	NORTH CAROLINA GEODETIC
BOLLARD	— — — ucc — — ucc — — ucc —	UNDERGROUND GAS LINE	ADA	AMERICANS WITH DISABILITIES
DOST	— — UCT — UCT — UCT — UCT — UCT —	UNDERGROUND TELEPHONE LINE	HVAC	HEATING, VENTILATION, AIR (
◇ POWER METER	— — — ctv — — ctv — — ctv — — ctv —	UNDERGROUND CABLE TELEVISION LINE	PIN	PARCEL IDENTIFICATION NUM
🔆 LIGHT POLE	— — ucw — ucw — ucw —	UNDERGROUND WATER LINE	NCDOT	NORTH CAROLINA DEPARTME
E ELECTRIC BOX (EBX)	— — UGE — UGE — UGE — UGE —	UNDERGROUND ELECTRIC LINE	TIP	TRANSPORTATION IMPROVEME
① UTILITY PEDESTAL	SS	UNDERGROUND SANITARY SEWER LINE	ALTA	AMERICAN LAND TITLE ASSO
-☆ ^{FH} FIRE HYDRANT	SD	UNDERGROUND STORM DRAINAGE LINE	NSPS	NATIONAL SOCIETY OF PROFE
⊗ WATER VALVE	— — — 590 — — — —	MAJOR CONTOUR	VRS	VIRTUAL REFERENCE STATION
WM WATER METER	591	MINOR CONTOUR	CORS	CONTINUOUSLY OPERATING R
ල් MAILBOX		TREELINE	NAVD88	NORTH AMERICAN VERTICAL
ADA ADA TACTILE PAVING	-000	CHAINLINK FENCE	NAD83	NORTH AMERICAN DATUM OF
CLEANOUT	— <u> </u>	FENCE	RCP	REINFORCED CONCRETE PIPE
FLARED END SECTION	— <i>H</i> —— <i>H</i> ——— <i>H</i> ———	WOVEN FENCE/NET	FRIS	FLOOD RISK INFORMATION SY
SD STORM DRAIN MANHOLE		REVISION AREA	GNSS	GLOBAL NAVIGATION SATELLI
🐨 GAS MARKER POST	— XXX 	BARBED WIRE FENCE	GPS	GLOBAL POSITIONING SYSTEM
CATCH BASIN			ЕНН	ELECTRIC HANDHOLE

5 END OF INFORMATION/TERMINUS UNKNOWN

GENERAL NOTES

ALL DISTANCES SHOWN ARE HORIZONTAL GROUND MEASUREMENTS.
 THIS IS A TOPOGRAPHIC SURVEY. PROPERTY LINES SHOWN HEREON ARE NOT SURVEYED AND WERE APPROXIMATED FROM FOUND MONUMENTATION AND INFORMATION FROM DEEDS AND MAPS OF RECORD.
 SEE DATUM DESCRIPTION NOTE FOR GRID TIE INFORMATION.
 THIS MAP IS NOT PREPARED FOR RECORDATION AS PER G.S. 47-30.
 RIGHT OF WAY WIDTHS, IF SHOWN, ARE PER INFORMATION OF RECORD.
 SUB-GRADE CONNECTIVITY AND ROUTING OF STORM AND SANITARY SEWER PIPES ARE APPROXIMATED PER AVAILABLE INFORMATION. PIPE SIZES, INVERT ELEVATIONS, AND MATERIALS ARE CERTIFIED TO BE CORRECT WHERE PIPES ARE CLEARLY VISIBLE WITHOUT CONFINED SPACE ENTRY.
 UNDERCEDUIND UTILITIES SHOWN HEREON ARE PER MARKINGS PLACED BY TAYLOR WISEMAN & TAYLOR AND 811. THE

- 7. UNDERGROUND UTILITIES SHOWN HEREON ARE PER MARKINGS PLACED BY TAYLOR WISEMAN & TAYLOR AND 811. THE SURVEYOR OFFERS NO WARRANTY OR OPINION AS TO THE ACCURACY OF UNDERGROUND UTILITY LOCATIONS. THE SURVEYOR OFFERS NO GUARANTEE THAT ALL UTILITIES LOCATED ON SITE ARE SHOWN HEREON.
- 8. SANITARY SEWER PIPES LABELED AS "PAINTED" ARE SHOWN PER MARKINGS PLACED BY TAYLOR WISEMAN & TAYLOR AND 811. THE SURVEYOR OFFERS NO WARRANTY OR OPINION AS TO THE ACCURACY OF SAID SANITARY SEWER ROUTING OR CONNECTIVITY.
 9. LINES SHOWN ON SHEET 1 ARE FOR ILLUSTRATIVE PURPOSES ONLY.

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON STATE PLANE COORDINATES ESTABLISHED BY DEWBERRY GPS #101 HAVING NAD83(2011) STATE PLANE COORDINATES OF: NORTHING: 629,049.65 EASTING: 1,451,130.18

ELEVATION: 802.57

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999845933

VERTICAL DATUM: NAVD88

ALL LINEAR DIMENSIONS SHOWN HEREON ARE LOCALIZED HORIZONTAL DISTANCES.

GPS NOTE

I, <u>ADAM C. HALES</u>, CERTIFY THAT THIS MAP WAS DRAWN UNDER MY SUPERVISION AND THE FOLLOWING INFORMATION WAS USED TO PERFORM THE SURVEY:

- (1) CLASS OF SURVEY: CLASS A(2) POSITIONAL ACCURACY: <0.100'
- 3) TYPE OF GPS/GNSS FIELD PROCEDURE: VRS
- (4) DATE OF SURVEY: 2023-10-13
- (5) DATUM/EPOCH: NAD83(2011)
- (6) PUBLISHED/FIXED-CONTROL USED: VRS
- (7) GEOID MODEL: GEOID18
- (8) COMBINED GRID FACTOR(S) AT SET GRID TIE: 0.999845933 (9) UNITS: US SURVEY FEET.

ADAM C. HALES, PROFESSIONAL LAND SURVEYOR

21 NCAC 56.1606 PLAT CERTIFICATION

I, <u>ADAM C. HALES</u> CERTIFY THAT THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL SURVEY MADE MT DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; THAT THIS <u>GROUND</u> SURVEY WAS PERFORMED AT THE <u>95%</u> CONFIDENCE LEVEL TO MEET FEDERAL GEOGRAPHIC DATA COMMITTEE STANDARDS; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS FOR A PLANIMETRIC SURVEY TO THE ACCURACY OF <u>CLASS B</u> AND VERTICAL ACCURACY WHEN APPLICABLE TO THE <u>CLASS B</u> STANDARD, AND THAT THE ORIGINAL DATA WAS OBTAINED ON <u>OCTOBER</u> 10TH 2023; THAT THE SURVEY WAS COMPLETED ON LANUARY 31ST 10TH. 2023; THAT THE SURVEY WAS COMPLETED ON JANUARY 31ST. 2024; THAT CONTOURS SHOWN AS [BROKEN LINES] MAY NOT MEET THE STATED STANDARD; AND ALL COORDINATES ARE BASED ON NC GRID NORTH NAD83 (2011) AND ALL ELEVATIONS ARE BASED ON NAVD88.



REVISIONS 1 4/11/2024 PAS ADDITIONAL TOPO AREA NO. DATE BY DESCRIPTION

MATCHLINE-SHEET 2

MATCHLINE-SHEET 4

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NOT A CERTIFIED DOCUMENT AS TO THE ORIGINAL DOCUMENT BUT ONLY AS TO THE REVISIONS. THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY GAVIN D. PROFFIT, L-5298, ON NOVEMBER 14, 2023. THIS DOCUMENT IS CERTIFIED ONLY AS TO THE REVISIONS DATED ON OR AFTER APRIL 15, 2024.

Adam Hales

L-4980

























_		1 2	
	GEN	NERAL NOTES	EROS
	1.	BASE DATA FROM MECKLENBURG COUNTY GIS AND SURVEY PREPARED BY DEWBERRY ENGINEERS INC. ON APRIL 15, 2024.	PROJE
	2.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL ILLUSTRATED KNOWN UNDERGROUND ELEMENTS. ADDITIONALLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXERCISING REASONABLE EFFORTS TO PROTECT ANY UNKNOWN UNDERGROUND ELEMENTS. THE CONTRACTOR SHALL NOTIFY THE OWNER AND DESIGNER OF RECORD IMMEDIATELY IF UNKNOWN ELEMENTS ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE ILLUSTRATED DESIGN	THE S TENNI EXIST
	3.	PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC, AND ALL OF THE OWNER'S FACILITIES. SHOULD DAMAGES OCCUR, CONTRACTOR SHALL REPAIR IMMEDIATELY AS DIRECTED BY THE OWNER OR DESIGNER OF RECORD. REPAIRS SHALL BE MADE AT NO COST TO THE DEVELOPER/OWNER	
E	4.	CONTRACTOR SHALL HOLD HARMLESS THE OWNER AND THE DESIGNER OF RECORD FOR DAMAGES, INJURIES OR OTHER ACCIDENTS WHICH OCCUR DURING THESE CONSTRUCTION ACTIVITIES.	IT DOE <u>CRITIC</u>
	5. 6.	TREES AND EXISTING LANDSCAPING NOT DESIGNATED FOR REMOVAL SHALL BE PROTECTED DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES DURING CONSTRUCTION INCLUDING DAMAGES TO OTHER CONTRACTORS & CONSULTANTS WORK AND SHALL MAKE REPAIRS OR HAVE REPAIRS MADE BY OTHERS AT THEIR EXPENSE.	NO CF
	7.	CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION ADJUSTMENTS OF ALL EXISTING VAULTS (REGARDLESS OF FUNCTION), METER BOXES, FIRE HYDRANTS, CLEAN OUTS, MANHOLES ETC. TO MATCH FINISHED GRADES AND SITE PLAN. ALL SUCH WORK SHALL BE COORDINATED WITH THE DESIGNER OF RECORD AND OWNER.	<u>MANA</u> 1. 2
	8. 9.	UTILIZE SIGNS, BARRICADES, ETC. TO ENSURE THE SAFETY OF THE GENERAL PUBLIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LAYOUT OF ALL WORK AS ILLUSTRATED ON PLANS. IF EXISTING CONDITIONS DIFFER FROM THOSE ILLUSTRATED ON PLANS, NOTIFY DESIGNER OF RECORD AND DEVELOPER/OWNER PRIOR TO	3. 4.
_	10.	CONSTRUCTION. VERIFY ALL DIMENSIONS AND GRADES AT THE JOB SITE. IF DIFFERENCES ARE FOUND, NOTIFY DESIGNER OF RECORD SO THAT MODIFICATIONS TO THESE DRAWINGS CAN BE MADE	EROS
	11.	ALL SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".	THE IN ACCEI RESU
	12.	ANY LAND DISTURBANCE ACTIVITY >1 ACRE REQUIRES COMPLIANCE WITH ALL CONDITIONS OF THE GENERAL PERMIT TO DISCHARGE STORMWATER UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (PERMIT No NCG010000). ANY PERMIT NONCOMPLIANCE IS A VIOLATION OF THE CLEAN WATER ACT AND MAY REQUIRE ENFORCEMENT ACTION BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY. (FOR QUESTIONS CONTACT MOORESVILLE REGIONAL OFFICE WATER QUALITY STAFF AT 704-663-1699.	EROSI IN GEN
ם ח	13.	ALL SUBSURFACE DRAINAGE PIPE SHALL BE REINFORCED CONCRETE (RCP) PIPE, AS APPROVED BY THE TOWN OF CORNELIUS/MECKLENBURG COUNTY. PIPES IN R/W MUST BE RCP.	1.
	14.	CONTRACTOR TO COORDINATE PLANTING LOCATIONS WITH THE TOWN OF CORNELIUS PRIOR TO PLACEMENT.	2.
	15.	IF THE SAME PERSON CONDUCTS THE LAND-DISTURBING ACTIVITY & ANY RELATED BORROW OR WASTE ACTIVITY, THE RELATED BORROW OR WASTE ACTIVITY SHALL CONSTITUTE PART OF THE LAND-DISTURBING ACTIVITY UNLESS THE BORROW OR WASTE ACTIVITY IS REGULATED UNDER THE MINING ACT OF 1971, OR IS A LANDFILL REGULATED BY THE DIVISION OF WASTE MANAGEMENT. IF THE LAND-DISTURBING ACTIVITY AND ANY RELATED BORROW OR WASTE ACTIVITY ARE NOT CONDUCTED BY THE SAME PERSON, THEY SHALL BE CONSIDERED SEPARATE LAND-DISTURBING ACTIVITIES AND MUST BE PERMITTED EITHER THROUGH THE SEDIMENTATION POLLUTION CONTROL ACT AS A ONE-USE BORROW SITE OR THROUGH THE MINING ACT.	GENE
	ERC	DSION AND SEDIMENT CONTROL NOTES	1.
_	1. 2.	ALL "STD." NUMBERS REFER TO THE MECKLENBURG COUNTY LAND DEVELOPMENT STANDARDS (MCLDS). ON-SITE BURIAL PITS REQUIRE AN ON-SITE DEMOLITION LANDFILL PERMIT FROM THE ZONING ADMINISTRATOR.	2.
	3.	ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.	3. I
	4.	GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.	4. / 5. ⁻
	5.	ALL PERIMETER DIRES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO TVERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.	6.
c	o. 7	ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.	7. I 8 (
	8.	SLOPES SHALL BE GRADED NO STEEPER THAN 2:1. FILL SLOPES GREATER THAN 10' REQUIRE ADEQUATE TERRACING [MCLDS #30.16].	0.
	9.	A GRADING PLAN MUST BE SUBMITTED FOR ANY LOT GRADING EXCEEDING ONE ACRE THAT WAS NOT PREVIOUSLY APPROVED.	9. 10
	10. 11.	DEWATERING TO BE AUTHORIZED BY THE EROSION CONTROL INSPECTOR AS RELATED TO SITE CONDITIONS. CONTRACTOR SHALL OBTAIN EROSION CONTROL INSPECTOR AUTHORIZATION PRIOR TO DEWATERING ACTIVITIES. TEMPORARY DRIVEWAY PERMIT FOR CONSTRUCTION ENTRANCES IN NCDOT RIGHT OF WAY MUST BE PRESENTED AT PRE-CONSTRUCTION MEETING	11.
	12.	ALL EMBANKMENTS MUST BE CONSTRUCTED PER SECTION 4.0.6 EMBANKMENT REQUIREMENTS IN THE BMP DESIGN MANUAL.	
	13.	SITE PREPARATION SHALL BE AS DIRECTED IN REPORT TITLED "GEOTECHNICAL ENGINEERING REPORT: BAILEY ROAD PARK TENNIS COURTS" PREPARED BY CAROLINAS GEOTECHNICAL GROUP DATED MAY 5, 2023. SLOPES GREATER THAN 10 VERTICAL FEET REQUIRE ADEQUATE TERRACING (MCLDS # 30.16). SOILS ENGINEER TO VERIFY STABILITY OF SLOPES GREATER THAN 3:1.	CONS PHASE
	14.	SOIL COMPACTION TESTS ARE REQUIRED ON ANY BERM >= 5' IN HEIGHT FROM THE NATURAL GRADE. SOIL COMPACTION MUST BE AT 95% PROCTOR PER ASTM D-1557 AND CERTIFIED BY A LICENSED SOIL ENGINEER.	2. (
	15.	CONTROL MEASURES, STRUCTURES, OR DEVICES IN ACCORDANCE WITH THE COUNTY SOIL EROSION AND SEDIMENTATION CONTROL ORDINANCE.	4. (
	16.	SURFACE WATER DRAW DOWN DEVICES (RISERS OR SKIMMERS) SHALL BE INSTALLED IN ALL SEDIMENT BASINS. ROCK COFFER FOREBAYS SHALL BE USED IN CONJUNCTION WITH ALL SEDIMENT BASINS. THE BASIN SHALL ALSO HAVE A VOLUME TWENTY-FIVE (25) PERCENT GREATER THAN THE 1,800 CUBIC FEET PER DRAINAGE ACRE, WHEN POSSIBLE.	5. (
в	17.	POLYACRYLAMIDES (PAM) SHALL BE USED TO REDUCE TURBIDITY AND SUSPENDED SOLIDS WHENEVER A SEDIMENT TRAP, BASIN, PIT, HOLE, OR BULDING FOUNDATION IS BEING PUMPED OUT TO REMOVE SEDIMENT LADEN WATER. PAM IS NOT REQUIRED WHEN ANY OF THE ABOVE IS BEING PUMPED TO AN APPROVED SEDIMENT BASIN ON SITE. THIS ACTIVITY MUST BE INSPECTED AND APPROVED BY THE EROSION CONTROL INSPECTOR. CONTRACTOR SHALL APPLY PAM AS DIRECTED BY MANUFACTURER.	6. (7. /
	18. 19.	POLYACRYLAMIDES MAY BE REQUIRED ON SITE, AS DETERMINED BY THE EROSION CONTROL INSPECTOR. DOUBLE ROW OF HIGH HAZARD SILT FENCE WITH WIRE BACKING AND STONE SHALL BE USED ALONG WETLANDS, STREAMS, LAKES OR OTHER SURFACE WATER BODIES AS WELL AS ADJACENT TO ALL S.W.I.M. OR OTHER WATER QUALITY BUFFERS. SINGLE ROW OF SILT FENCE WITH WIRE BACKING AND WASHED STONE MAY BE REQUIRED ON ALL OTHER AREAS, AS DETERMINED NECESSARY BY	8. 9. (10. F
	20.	A 10-FOOT UNDISTURBED BUFFER SHALL BE PROVIDED AROUND THE OUTSIDE EDGE OF DRAINAGE FEATURES SUCH AS INTERMITTENT AND PERENNIAL STREAMS, PONDS, AND WETLANDS. INCIDENTAL DRAINAGE IMPROVEMENTS OR REPAIRS WILL BE PERMITTED WITHIN THE BUFFER AS APPROVED BY TOWN STAFF. THESE WOULD INCLUDE ANY ALLOWANCES STATED IN THE SWIM	I Phase
	21.	BUFFER AND/OR POOD ORDINANCES, IF APPLICABLE. A GROUND COVER SUFFICIENT TO RESTRAIN ACCELERATED EROSION MUST BE PROVIDED WITHIN 7 CALENDAR DAYS OF THE DATE OF LAST LAND-DISTURBING ACTIVITY ON ANY PORTION OF THE PROJECT.	1. (
	22. 22	APPLY EROSION CONTROL MATTING TO DIVERSION DITCHES AND INTERIOR BASIN SLOPES AS SHOWN ON THE PLANS.	2. (3. (
	23. 24.	ALL BASIN SFILLWATS SHALL DE SIZED TO PASS THE 50-YK STOKM EVENT. FILL SLOPE STEEPNESS SHALL BE LIMITED TO 2:1. SLOPES STEEPER THAN 3:1 MUST BE TERRACED OR OTHERWISE PROVIDE AN APPROVED ENGINEERED SOLUTION. SLOPES 3:1 OR FLATTER MUST BE DESIGNED AS SET FORTH IN THE NC SOIL EROSION & SEDIMENT PLANNING & DESIGN MANUAL, STANDARD 6.02A.	4. (
	25.	ALL PLANS WILL CARRY A "PERFORMANCE RESERVATION".	5. (
	26.	ALL SELF-INSPECTION LOG BOOK ENTRIES WILL BE ELECTRONICALLY SENT TO THE AREA INSPECTOR, WITHIN 2 WORKING DAYS OF A QUALIFYING RAIN EVENT OR WEEKLY (WHICHEVER IS SHORTER). FOR EROSION CONTROL BASINS WITH A	7.
A		DRAINAGE AREA GREATER THAN 10 ACRES, TURBIDITY MEASUREMENTS MAY BE REQUIRED AT THE DISCRETION OF THE TOWN TO MEASURE CLARITY OF BASIN EFFLUENT AND ANY POTENTIAL IMPACT TO RECEIVING WATERS AT THE TIME OF RAINFALL-TRIGGERED INSPECTIONS. READINGS MUST BE COLLECTED AT THE BASIN OUTFALL (TO MEASURE CLARITY OF BASIN EFFLUENT), UPSTREAM OF THE DISCHARGE POINT (TO MEASURE BASELINE CONDITIONS) AND DOWNSTREAM OF THE DISCHARGE POINT (TO MEASURE STREAM IMPACTS OF THE BASIN FEELUENT) WHEN POSSIBLE. THE DESCHARGE POINT THE MODEOTION PERSON	8. ()
	27.	AFTER CONSTRUCTION IS COMPLETED AND THE SITE IS STABILIZED, REMOVE ALL TEMPORARY MEASURES.	۲ بر 9.
			10. (

SION AND SEDIMENT CONTROL NARRATIVE

CT DESCRIPTION

COPE OF THIS PROJECT INCLUDES THE CONSTRUCTION OF SIX (6) NEW TENNIS COURTS, THE CONVERSION OF THREE (3) EXISTING S COURTS INTO TEN (10) PICKLEBALL COURTS, THE CONSTRUCTION OF TWO (2) NEW PARKING LOTS, THE EXPANSION OF THE NG DRY DETENTION POND, THE CONSTRUCTION OF ONE (1) NEW SAND FILTER BMP, AND THE INSTALLATION OF STORM DRAINAGE, ES, AND LANDSCAPING. THE DENUDED LIMITS FOR THE PROJECT ARE APPROXIMATELY 8.0 AC.

ENT PROPERTY

ES NOT APPEAR ADJACENT PROPERTIES SHALL BE AFFECTED BY THE PERFORMANCE OF WORK ASSOCIATED WITH THIS PROJECT.

NCDEQ INSPECTOR: JEFFREY CHANDLER

(704) 235-2148

AL AREAS

ITICAL AREAS ARE WITHIN THE PROJECT LIMITS.

SEMENT STRATEGIES

CONSTRUCTION SHALL BE SEQUENCED SO THAT DISTURBANCE, CONSTRUCTION, AND STABILIZATION CAN BE ACHIEVED AS SOON AS PRACTICABLE. IARDSCAPE INSTALLATION SHALL BEGIN IMMEDIATELY FOLLOWING RETURN TO EXISTING SUBGRADE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL PRACTICES. AFTER ACHIEVING ADEQUATE STABILIZATION, THE TEMPORARY EROSION & SEDIMENT CONTROLS SHALL BE CLEANED UP AND REMOVED IMMEDIATELY.

ON AND SEDIMENT CONTROL MEASURES

TENT OF THE EROSION AND SEDIMENT CONTROLS SHOWN ON THESE DRAWINGS IS TO GUIDE THE CONTRACTOR IN IMPLEMENTING PTABLE MEASURES, INFRASTRUCTURE, AND MAINTENANCE PROGRAMS THAT WILL MINIMIZE THE AMOUNT OF EROSION AND TING SEDIMENT THAT WILL TAKE PLACE DURING THE CONSTRUCTION OF THIS PROJECT.

ON AND SEDIMENT CONTROL MAINTENANCE

IERAL, ALL THE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED WEEKLY AND AFTER EACH 🗄 RAINFALL TO RE THEY ARE IN WORKING ORDER. THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:

NLET PROTECTION: SEDIMENT DEPOSITS SHALL BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE DESIGN EPTH OF THE TRAP.

SILT FENCE SHALL BE MAINTAINED BY CONTRACTOR THROUGHOUT THE DURATION OF THE PROJECT TO FUNCTION PER THE STANDARD DETAILS. WHEN/WHERE NECESSARY CONTRACTOR SHALL REPLACE/REPAIR DAMAGED SILT FENCE PER STANDARD DETAILS.

ERAL DEMOLITION NOTES

SAW CUT AND REMOVE ALL ASPHALT AND CONCRETE TO LIMITS REQUIRED FOR PROPOSED WORK. SAW CUTS FOR CONCRETE SHALL OCCUR AT THE NEAREST CONTROL JOINT OR EXPANSION JOINT. SAW CUTS BETWEEN CONTROL JOINTS ARE NOT ACCEPTABLE. ALL DECORATIVE SCORING PATTERNS SHALL BE REPLACED TO THE OWNER'S SATISFACTION. CONTRACTOR SHALL OCUMENT AND PHOTOGRAPH ALL DECORATIVE SCORING PATTERNS PRIOR TO DEMOLITION.

CONTRACTOR SHALL PHOTOGRAPH ALL ELEMENTS OF THE SITE TO BE MODIFIED FOR THIS PROJECT AND SUBMIT PHOTOGRAPHIC DOCUMENTATION TO OWNER AND DESIGNER OF RECORD FOR REVIEW PRIOR TO COMMENCING CONSTRUCTION.

REMOVE VEGETATION, GRASS, & ROOTMAT IN AREAS TO RECEIVE NEW ASPHALT AND CONCRETE PAVEMENTS.

ALL PRIMARY UTILITIES DISCOVERED DURING DEMOLITION OPERATIONS SHALL BE PROPERLY PRESERVED AND PROTECTED. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE OWNER ANY UNFORESEEN OR ADVERSE CONDITIONS DISCOVERED DURING DEMOLITION OPERATIONS.

CONTRACTOR SHALL PROTECT EXISTING PLANT MATERIAL NOT DESIGNATED FOR REMOVAL OR RELOCATION FROM DAMAGE DURING CONSTRUCTION.

CONTRACTOR SHALL KEEP ALL SURROUNDING ROADWAYS AND DRAINAGE SYSTEMS FREE FROM DIRT, MUD, AND CONSTRUCTION DEBRIS AT ALL TIMES.

CONTRACTOR SHALL REMOVE ASPHALT PAVEMENT, CONCRETE AND MISCELLANEOUS ITEMS AS NECESSARY TO FACILITATE CONSTRUCTION IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY ITEMS DAMAGED DURING THE CONSTRUCTION. CONTRACTOR SHALL REMOVE ALL FOUNDATIONS, FOOTING, AND SLABS WITHIN THE PROJECT LIMITS TO FULL DEPTH OR AS NDICATED ON THESE PLANS.

CONTRACTOR SHALL LEGALLY DISPOSE OF ALL DEBRIS AND CONSTRUCTION WASTE AT A LANDFILL LEGALLY ABLE TO ACCEPT SUCH MATERIAL IN THE STATE OF NORTH CAROLINA.

TRUCTION SEQUENCE

CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY FOR CONSTRUCTION. CONTRACTOR SHALL OBTAIN CERTIFICATE OF COVERAGE (COC).

CONTRACTOR SHALL SET UP AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH NCDEQ INSPECTOR, JEFFREY CHANDLER. FAILURE O SCHEDULE SUCH CONFERENCE 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY IS SUBJECT TO FINE.

CONTRACTOR SHALL INSTALL CONSTRUCTION ENTRANCE, INLET PROTECTION, SILT FENCE, SEDIMENT BASINS, DIVERSION DITCHES/CHANNELS, TREE PROTECTION, AND OTHER MEASURES AS SHOWN ON PLANS, CLEARING ONLY AS NECESSARY TO INSTALL HESE DEVICES.

CONTRACTOR SHALL CALL FOR ON-SITE INSPECTION BY INSPECTOR. WHEN APPROVED, CLEARING AND GRUBBING MAY BEGIN. CONTRACTOR SHALL BEGIN SITE DEMOLITION AS SHOWN ON THE DEMOLITION AND PHASE I ESC PLANS.

ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL AND MECKLENBURG COUNTY LAND DEVELOPMENT STANDARDS (MCLDS).

THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES. CONTRACTOR SHALL MONITOR THE LOCAL WEATHER EVERY DAY THROUGHOUT THE ENTIRE DURATION OF CONSTRUCTION AND

ADJUST SCHEDULING ACTIVITIES ACCORDINGLY TO LIMIT POTENTIAL SEDIMENTATION TO THE MAXIMUM EXTENT PRACTICABLE. PRIOR TO ALL RAIN EVENTS, CONTRACTOR SHALL INSPECT ALL EROSION CONTROL DEVICES TO ENSURE PROPER FUNCTION DURING A RAIN EVENT. CONTRACTOR SHALL REPLACE ANY EROSION CONTROL DEVICE THAT NO LONGER PROVIDES ADEQUATE PERFORMANCE DURING A RAIN EVENT.

CONTRACTOR SHALL ADJUST MEASURES INSTALLED IN PHASE 1 AS NEEDED FOR PHASE 2 AND SHALL MEET WITH EROSION CONTROL NSPECTOR PRIOR TO COMMENCING PHASE 2. CONTRACTOR SHALL VERIFY THAT SILT FENCE AND OTHER MEASURES INSTALLED DURING PHASE 1 ARE STILL PROVIDING PROTECTION TO KEEP SEDIMENT FROM LEAVING THE SITE.

CONTRACTOR SHALL COMMENCE WITH ROUGH GRADING OF THE SITE

CONTRACTOR SHALL INSTALL PERMANENT STORM PIPES, STRUCTURES, AND UTILITIES AS SHOWN ON PLANS. CONTRACTOR SHALL CALL FOR ON-SITE INSPECTION BY INSPECTOR. INSPECTOR SHALL VERIFY INSTALLATION OF STORM PIPES AND STRUCTURES AND HAT SITE DRAINAGE PATTERNS MATCH CONDITIONS SHOWN ON THE PHASE 2 ESC PLAN.

CONTRACTOR SHALL COMMENCE FINE GRADING OF THE SITE.

CONTRACTOR SHALL COMMENCE PAVING AND SIDEWALK INSTALLATION AND SHALL BRING ALL GRADES TO FINAL GRADES AS SHOWN ON PLANS.

CONTRACTOR SHALL COORDINATE WITH EROSION CONTROL INSPECTOR FOR INSPECTION PRIOR TO REMOVAL OF ANY EROSION CONTROL MEASURES.

CONTRACTOR SHALL STABILIZE ALL DENUDED AREAS. ONCE THE SITE HAS BEEN STABILIZED, CONTRACTOR SHALL CONVERT THE SEDIMENT BASIN INTO A DRY DETENTION BASIN AND SHALL CONVERT THE SKIMMER SEDIMENT BASIN INTO A SAND FILTER AS SHOWN ON THE PLANS. CONTRACTOR SHALL CLEAN OUT SEDIMENT THAT HAS ACCUMULATED IN THE BASIN DURING EROSION CONTROL PHASES.

AFTER CONSTRUCTION IS COMPLETED AND THE SITE IS STABILIZED, CONTRACTOR SHALL REMOVE ALL TEMPORARY MEASURES, AND STABILIZE ANY RESULTING DISTURBED AREA FROM REMOVAL OF TEMPORARY MEASURES.

CONTRACTOR SHALL SUBMIT OR CAUSE TO BE SUBMITTED THE NOTICE OF TERMINATION (NOT) TO NCDEQ.

GRADING NOTES

- STD. NO. 20.00.

- TO PROVIDE POSITIVE DISCHARGE THROUGH THE STRUCTURE.

- HAVE A SLOPE GREATER THAT 2% IN ANY DIRECTION.
- CURB.
- SPILL CURB IS CALLED OUT
- 14. NO STORM PIPE SHALL BE INSTALLED WITHIN THE S.W.I.M. BUFFERS.
- DATED MAY 5, 2023.

- MATERIAL.
- ACCEPTING NEW FILL.

- FIELD EVALUATION DURING CONSTRUCTION.
- 30

ALL STORM STRUCTURES SHALL MEET CURRENT NCDOT STANDARDS APPROVED FOR USE IN THE TOWN OF CORNELIUS PER MCLD

2. ALL STORM INLETS LABELED "CB" SHALL BE GRATE TYPE INLETS (NCDOT 840.02).

ALL STORM STRUCTURES LABELED "JB" SHALL BE JUNCTION BOXES (NCDOT 840.52).

4. ALL STORM STRUCTURES LABELED "DI" SHALL BE GRATE DROP TYPE INLET (NCDOT 840.14 & 840.17 IF PIPE GREATER THAN 30" DIA.). THE MINIMUM COVER FOR CLASS III RCP SHALL BE 2'. WHERE 2' OF COVER CANNOT BE PROVIDED THE PIPE SHALL BE CLASS IV. ALL INCOMING PIPES SHALL BE CUT FLUSH WITH THE INSIDE OF STORM STRUCTURES AND THE INVERTS GROUTED AND TROWELED

ALL STORM DRAINAGE STRUCTURES GREATER THAN 42" DEPTH SHALL HAVE STEPS CAST INTO THEM.

RIM ELEVATIONS ARE AT THE CENTER OF THE GRATE AT THE EDGE OF PAVEMENT. RIM ELEVATIONS FOR DROP INLETS AND MANHOLES SHALL BE AT THE CENTER OF THE LID OR GRATE.

ALL SPOT ELEVATIONS SHOWN ARE TOP BACK OF CURB (BC) UNLESS OTHERWISE NOTED.

ALL SIDEWALKS AND PAVED AREAS FOR PEDESTRIAN TRAFFIC SHALL BE GRADED IN ACCORDANCE WITH THE 2010 ADA GUIDELINES AND SHALL HAVE A CROSS SLOPE OF 1.5% PREFERRED, 2% MAXIMUM. THE LONGITUDINAL SLOPE OF WALKS SHALL NOT EXCEED 5% UNLESS THESE DRAWINGS INDICATE A RAMP CONDITION. ANY LANDINGS, AND LOADING AREA ADJACENT TO BUS STOP SHALL NOT

11. WHERE ADJACENT PLACEMENT SLOPES AWAY FROM THE PROPOSED CURB & GUTTER THE CONTRACTOR SHALL PROVIDE SPILL

12. IN ORDER TO ENSURE PROPER DRAINAGE, CURB SHALL HAVE A MINIMUM OF 0.5% SLOPE, UNLESS SPILL CURB IS INDICATED ON THE PLANS. SHADED CURB & GUTTER INDICATES LOCATION FOR SPILL CURBS.

13. CONTRACTOR IS RESPONSIBLE FOR OBTAINING POSITIVE DRAINAGE AT ALL INTERSECTIONS, SPECIAL CARE MUST BE TAKEN WHERE

15. GENERALLY, SOIL MATERIALS FOR CONSTRUCTION SHALL BE AS RECOMMENDED IN THE GEOTECHNICAL REPORT TITLED "GEOTECHNICAL ENGINEERING REPORT: BAILEY ROAD PARK TENNIS COURTS" PREPARED BY CAROLINAS GEOTECHNICAL GROUP

16. FILL AND BACKFILL MATERIAL SHALL CONSIST OF SOIL, GRANULAR SAND, GRAVEL, AND COBBLE MATERIAL, FREE FROM FROZEN MATERIAL, ORGANIC MATERIAL, TRASH, GLASS, BROKEN CONCRETE, AND OTHER CORROSIVE OR DELETERIOUS MATERIAL. APPROVAL OF FILL AND BACKFILL MATERIAL IS CONTINGENT ON THE MATERIAL HAVING A MAXIMUM DRY DENSITY OF NOT LESS THAN 90 POUNDS PER CUBIC FOOT. THE MATERIAL MUST BE STABLE AND HAVE A LIQUID LIMIT LESS THAN 50 AND A PLASTIC INDEX LESS THAN 30 WHEN TESTED IN ACCORDANCE WITH ASTM D4318. SIZE RESTRICTIONS ARE AS FOLLOWS:

16.1. NO MATERIAL SHALL HAVE DIMENSIONS LARGER THAN FOUR (4") INCHES. WHERE THE SUBGRADE LAYER IS LESS THAN FOUR (4") INCHES THE MAXIMUM SIZE SHALL NOT EXCEED TWO THIRDS (2) THE DEPTH OF THE LAYER. WHERE UNSTABLE SUBGRADE IS ENCOUNTERED, THE CONTRACTOR SHALL OBTAIN RECOMMENDATIONS FROM THE OWNER'S GEOTECHNICAL ENGINEER AND PROVIDE RECOMMENDATIONS AND VARIANCE PRICING TO OWNER TO STABILIZE THE MATERIAL BY TECHNIQUES SUCH AS OVER-EXCAVATION AND BACKFILL WITH IMPORTED MATERIAL, USE OF GEOTECHNICAL REINFORCEMENT, CHEMICAL STABILIZATION OR OTHER METHODS. THE CONTRACTOR SHALL NOTIFY THE OWNER OF PROPOSED SOLUTION TO STABILIZE THE SUBGRADE AND SHALL NOT COMMENCE UNTIL THEY HAVE RECEIVED WRITTEN APPROVAL FROM THE OWNER. IF TESTS OR OBSERVATION REVEAL THAT MATERIAL BEING PLACED IS NOT OF SUITABLE QUALITY AND STRUCTURAL VALUE, THE CONTRACTOR SHALL PROVIDE OTHER MATERIAL AS APPROVED BY THE OWNER'S GEOTECHNICAL ENGINEER.

17. EXCAVATION OF ALL MATERIALS SHALL BE PERFORMED IN CONFORMITY WITH THE LINES AND GRADES INDICATED ON THE DRAWINGS. SUITABLE MATERIAL REMOVED FROM THE EXCAVATION MAY BE USED AS FILL AND BACKFILL OR ANY OTHER AREAS WITHIN THE LIMITS OF WORK AS PERMITTED BY THE ENGINEER. WHERE MATERIAL ENCOUNTERED WITHIN THE LIMITS OF THE WORK IS CONSIDERED UNSUITABLE BY THE OWNER'S GEOTECHNICAL ENGINEER. WHERE MATERIAL ENCOUNTERED WITHIN THE LIMITS OF THE WORK IS CONSIDERED UNSUITABLE BY THE OWNER'S GEOTECHNICAL ENGINEER, SUCH MATERIAL SHALL BE EXCAVATED AS DIRECTED BY THESE STANDARDS, THE PLANS, OR THE OWNER'S GEOTECHNICAL ENGINEER AND REPLACED WITH SUITABLE

BUILDING PADS AND THE PAVEMENT STRUCTURE SHALL BE FOUNDED ON ORIGINAL, UNDISTURBED SOIL OR ON STRUCTURAL BACKFILL EXTENDED TO THE UNDISTURBED SOIL. BUILDING PADS AND THE PAVEMENT STRUCTURE SHALL NOT BE FOUNDED ON EXISTING FILL IF ENCOUNTERED AT THE PROJECT SITE UNLESS APPROVED BY THE ENGINEER. IF EXISTING FILL IS ENCOUNTERED AT THE SUBGRADE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHO SHALL EVALUATE THE EXISTING FILL FOR SUITABILITY OF

19. THE CONTRACTOR SHALL BLEND THE INTERSECTION OF CUT SLOPES WITH THE SLOPES OF ADJACENT NATURAL GROUND SURFACES IN A UNIFORM MANNER. THE TOPS OF CUT SLOPES SHALL BE FLATTENED AND ROUNDED.

20. ALL EXCAVATED MATERIAL SHALL BE STOCKPILED IN A MANNER THAT DOES NOT ENDANGER THE WORK OR WORKERS AND DOES NOT OBSTRUCT SIDEWALKS, STREETS, ALLEYS, AND/OR DRIVEWAYS, THE WORK SHALL BE DONE IN A MANNER THAT WILL MINIMIZE INTERFERENCE WITH TRAFFIC AND/OR DRAINAGE. THE CONTRACTOR AT THE END OF EACH DAY SHALL BARRICADE ALL EXCAVATIONS AND DITCH LINES, REMOVE EXCESS EXCAVATED MATERIAL FROM TRAVEL WAYS, AND THOROUGHLY CLEAN ALL STREETS, ALLEYS, AND/OR SIDEWALKS AFFECTED BY THE EXCAVATION.

MATERIAL ENCOUNTERED DURING EXCAVATION; SUCH AS, RUBBISH, ORGANIC, OR FROZEN MATERIAL, AND ANY OTHER MATERIAL WHICH IS UNSATISFACTORY FOR USE AS BACKFILL IN THE OPINION OF THE OWNER'S GEOTECHNICAL ENGINEER, SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF AT THE CONTRACTOR'S EXPENSE. STONES, CONCRETE, OR ASPHALT CHUNKS LARGER THAN FOUR (4") INCHES OR FROZEN MATERIAL SHALL BE CONSIDERED UNSATISFACTORY BACKFILL AND REMOVED BY THE CONTRACTOR. FROZEN MATERIAL, HOWEVER, MAY BE THAWED OUT AND USED AT A LATER DATE.

22. FILL AND BACKFILL SHALL CONSIST OF APPROVED MATERIAL UNIFORMLY DISTRIBUTED IN 8-INCH UNCOMPACTED LIFTS. EACH LIFT OF BACKFILL SHALL BE COMPACTED TO THE REQUIRED DENSITY BEFORE SUCCESSIVE LAYERS ARE PLACED. STRUCTURAL FILL AND BACKFILL SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY WITHIN +/- TWO (2%) PERCENT OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.

23. BEFORE ANY FILL IS PLACED. CLEARING. TREE REMOVAL. SOD AND TOPSOIL REMOVAL OVER THE ENTIRE AREA SHALL BE PERFORMED IN ACCORDANCE WITH THESE STANDARDS. THE BASE OF FILL AREA SHALL BE PROOFROLLED WITH A PNEUMATIC TIRED VEHICLE WEIGHING NO LESS THAN 20 TONS AND OBSERVED BY THE OWNER'S GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE OWNER'S GEOTECHNICAL ENGINEER NO LESS THAN 24 HOURS PRIOR TO PLACING FILL TO SCHEDULE THE PROOFROLL. NO FILL MATERIAL SHALL BE PLACED UPON SIFT, SPONGY, OR FROZEN MATERIAL OR OTHER MATERIAL, THE STABILITY OF WHICH IS IN THE OPINION OF THE OWNER'S GEOTECHNICAL ENGINEER, UNSUITABLE FOR THE PLACEMENT THEREOF.

24. WHEN FILL IS TO BE PLACED ON SLOPES, IT SHALL BE CONTINUOUSLY BENCHED IN HORIZONTAL LAYERS TO KEY INTO THE EXISTING SLOPE. EACH LIFT OF THE FILL MATERIAL SHALL NOT EXCEED EIGHT (8") INCHES IN LOOSE DEPTH. THE CONTRACTOR SHALL THOROUGHLY MIX AND INSURE UNIFORM DENSITY AND MOISTURE FOR PROPER COMPACTION.

25. GRADED SLOPES SHALL NOT EXCEED 3:1 OR AS RECOMMENDED BY THE OWNER'S GEOTECHNICAL ENGINEER.

26. BACKFILL MATERIAL SHALL NOT BE DEPOSITED AGAINST NEWLY CONSTRUCTED MASONRY OR CONCRETE STRUCTURES UNTIL THE CONCRETE HAS DEVELOPED A FIELD COMPRESSIVE STRENGTH OF EQUAL TO THE DESIGN COMPRESSIVE STRENGTH.

27. COMPACTION METHODS THAT PRODUCE HORIZONTAL OR VERTICAL EARTH PRESSURES, WHICH MAY CAUSE EXCESSIVE DISPLACEMENT OR OVERTURNING, OR MAY DAMAGE STRUCTURES, BURIED PIPE, OR UTILITIES, SHALL NOT BE USED.

28. UNLESS OTHERWISE INDICTED IN THE CONTRACT OR DIRECTED BY THE ENGINEER, ALL SHEETING AND BRACING USED IN EXCAVATION SHALL BE REMOVED BY THE CONTRACTOR PRIOR TO BACKFILLING.

29. THE CONTRACTOR IS RESPONSIBLE FOR THE SCHEDULING THE QUALITY CONTROL TESTING AND PROTECTION OF WORK UNTIL ACCEPTED BY THE OWNER. ALL QUALITY CONTROL TEST RESULTS SHALL BE MADE AVAILABLE TO THE OWNER AND ENGINEER IMMEDIATELY AFTER TESTING. ACCEPTANCE TESTING MAY INCLUDE BUT NOT LIMITED TO TESTS ASSOCIATED WITH PLACING OF CONCRETE, ASPHALT, AND BASE COURSE SUBGRADE PREPARATION, AND SOIL COMPACTION. THE CONTRACTOR SHALL COORDINATE WITH THE CONSTRUCTION MATERIAL TESTING FIRM AS TO WHEN HE OR SHE IS READY FOR TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COSTS ASSOCIATED WITH RE-TESTING DUE TO FAILED ACCEPTANCE TEST.

30. UPON COMPLETION OF THE STRIPPING OPERATIONS, THE EXPOSED SUBGRADE IN AREA TO RECEIVE FILL SHOULD BE PROOFROLLED WITH A LOADED DUMP TRUCK OR SIMILAR PNEUMATIC TIRED VEHICLE (MINIMUM LOADED WIGHT OF 20 TONS) UNDER THE OBSERVATION OF THE A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER.

31. THE PROOFROLLING PROCEDURES SHOULD CONSIST OF COMPLETE PASSES OF THE EXPOSED AREA, WITH HALF OF THE PASSES BEING IN A DIRECTION PERPENDICULAR TO THE PRECEDING ONES. AFTER EXCAVATION OS THE SITE HAS BEEN COMPLETED, THE EXPOSED SUBGRADE IN CUT AREAS SHOULD ALSO BY PROOFROLLED AS PREVIOUSLY DESCRIBED. ANY AREA WHICH DEFLECT, RUT, OR PUMP EXCESSIVELY DURING PROOFROLLING OR FAIL TO IMPROVE SUFFICIENTLY AFTER SUCCESSIVE PASSES SHOULD BE UNDERCUT TO SUITABLE SOILS AND REPLACED WITH STRUCTURAL FILL. THE EXTENT OF THE UNDERCUT REQUIRED SHOULD BE EVALUATED IN THE FIELD BY AN EXPERIENCED REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER WHILE MONITORING CONSTRUCTION ACTIVITY. THE EVALUATION SHOULD CONSIST OF A COMPREHENSIVE PROOFROLLING PROGRAM AND THOROUGH

AFTER THE PROOFROLLING OPERATION HAS BEEN COMPLETED AND APPROVED, FINAL SITE GRADING SHOULD PROCEED IMMEDIATELY. IF CONSTRUCTION PROGRESSES DURING WET WEATHER, THE PROOFROLLING OPERATION SHOULD BE REPEATED WITH AT LEAST ON PASS IN EACH DIRECTION IMMEDIATELY PRIOR TO PLACING BASE COURSE IN THE PARKING/DRIVE AREAS. IF UNSTABLE CONDITIONS AREA EXPOSED DURING THE OPERATION, THEN UNDERCUTTING SHOULD BE PERFORMED.

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BAILEY ROAD PARK EXPANSION - PHASE I	CONSTRUCTION DOCUMENTS 11536 BAILEY ROAD CORNELIUS, NORTH CAROLINA 28031
SEAL:	AMUNITURE H
SCALE: REVISIONS I	
1 04/24/2024 BN/DB AGENCY O NO. DATE BY DESCRIP DRAWN BY BN BN APPROVED BY TM DJ CHECKED BY DJ FEBRUARY 9, TITLE GENERAL NO (SHEET 1 O)	2024

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DEI PROJECT NO: 50168691

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	SITE NOTES 1. DIMENSIONS AND COORDINATE POINTS ARE TO FACE OF CURB, EDGE OF PAVEMENT, OR CORN NOTED	IER OF BUILDING UNLESS OTHERWISE
	 ALL IMPROVEMENTS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATE AND LOCAL ANY DISCREPANCIES FOUND IN THE FIELD SHALL BE CALLED TO THE ATTENTION OF THE OWNE PROCEEDING WITH WORK. 	STANDARDS. ER OR ENGINEER OF RECORD PRIOR TC
	4. PRIOR TO BEGINNING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL OBTAIN ALL REQUIP ALL REGULATORY AUTHORITIES.	RED PERMITS AND APPROVALS FROM
Ε	5. THE GENERAL CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES, AND RIC PRIOR TO WORKING IN THESE AREAS.	GHT-OF-WAYS, PUBLIC AND PRIVATE,
	6. GENERAL CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND THE INJURY.	PUBLIC SHALL BE PROTECTED FROM
	 DO NOT SCALE DRAWINGS FROM ACTUAL DIMENSIONS, AS IT IS A REPRODUCTION AND SUBJECT THE (TOWN OF CORNELIUS/MECKLENBURG COUNTY) ENGINEERING DEPARTMENT HAS NOT REVORTANY RETAINING WALLS ON THE SITE AND DOES NOT ASSUME RESPONSIBILITY FOR THEM. 	CT TO DISTORTION. VIEWED THE STRUCTURAL STABILITY
	 9. THE ENGINEER WILL PROVIDE THE CONTRACTOR WITH AN ELECTRONIC FILE OF THESE DRAWIN 10. ALL RETAINING WALLS SHALL HAVE A 48" HEIGHT BLACK ALUMINUM FENCE WITH PICKETS NOT DIAMETER SPHERE LOCATED ON THE TOP OF WALL. SEE WALL DESIGN BY OTHERS FOR DETAIL 	NGS UPON REQUEST. PERMITTING THE PASSAGE OF A 4" .ED INFORMATION.
	11. IF REQUIRED BY MECKLENBURG COUNTY, CONTRACTOR IS RESPONSIBLE FOR OBTAINING P.E. RETAINING WALLS AND MUST SUBMIT TO TOWN ENGINEER PRIOR TO CONSTRUCTION.	SEALED SHOP DRAWINGS FOR
	 ALL PAVED AREAS SHALL COMPLY WITH THE LATEST ADA ACCESSIBILITY (2010) AND ANSI A117. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,600-PSI AT 28 DAYS, AN FINISH PERPENDICULAR TO THE PATH OF TRAVEL. ALL PROPOSED DAVEMENT AD LOCENT TO EXISTING DAVEMENT SHALL THE FLUSH TO AD LOCENT. 	1 GUIDELINES. ND SHALL HAVE A MEDIUM BROOM
	14. ALL PROPOSED PAVEMENT ADJACENT TO EXISTING PAVEMENT SHALL THE FLUSH TO ADJACENT	I SURFACES.
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_____ SHEET NO.

DEI PROJECT NO: 50168691

(SHEET 2 OF 2)



SECTION E: GROUND STAT	BILIZATION	
 Re	equired Ground St	abilization Timeframes
Site Area Description	Stabilize within t many calendar days after ceasin land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	 -7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones 10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope
practicable but in no case activity. Temporary groun surface stable against acce	longer than 90 cale d stabilization sha elerated erosion ur	endar days after the last land disturbing Il be maintained in a manner to render the ptil permanent ground stabilization is achieved
GROUND STABILIZATION Stabilize the ground sufficient techniques in the table be	SPECIFICATION iently so that rain v low:	will not dislodge the soil. Use one of the
GROUND STABILIZATION S Stabilize the ground sufficient techniques in the table be Temporary Stab • Temporary grass seed cover other mulches and tackifient • Hydroseeding • Rolled erosion control pro- without temporary grass s	SPECIFICATION iently so that rain v low: ilization ered with straw or ers ducts with or eed	 will not dislodge the soil. Use one of the Permanent Stabilization Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding
GROUND STABILIZATION S Stabilize the ground sufficient techniques in the table be <u>Temporary Stab</u> • Temporary grass seed cover other mulches and tackifient • Hydroseeding • Rolled erosion control pro- without temporary grass s • Appropriately applied strat • Plastic sheeting	SPECIFICATION iently so that rain v low: ilization ered with straw or ers ducts with or eed w or other mulch	 will not dislodge the soil. Use one of the Permanent Stabilization Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed
GROUND STABILIZATION S Stabilize the ground sufficient techniques in the table be Temporary Stab • Temporary grass seed cover other mulches and tackifier • Hydroseeding • Rolled erosion control pro- without temporary grass s • Appropriately applied stra • Plastic sheeting POLYACRYLAMIDES (PAM 1. Select flocculants the construction, select 2. Apply flocculants at <i>PAMS/Flocculants</i> at	SPECIFICATION iently so that rain v low: ilization ered with straw or ers ducts with or eed w or other mulch S) AND FLOCCULA at are appropriate ing from the NC DV or before the inlet the concentration nd in accordance v a for containment	 will not dislodge the soil. Use one of the Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed NTS for the soils being exposed during <i>WR List of Approved PAMS/Flocculants</i> . Is to Erosion and Sediment Control Measures. Is specified in the <i>NC DWR List of Approved</i> with the manufacturer's instructions. of treated Stormwater before discharging

EQUIPMENT AND VEHICLE MAINTENANCE

- 1. Maintain vehicles and equipment to prevent discharge of fluids.
- 2. Provide drip pans under any stored equipment.
- 3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- Collect all spent fluids, store in separate containers and properly dispose as 4. hazardous waste (recycle when possible).
- 5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- 6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

ITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- 1. Never bury or burn waste. Place litter and debris in approved waste containers.
- 2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
- 3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- 4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- 5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- 6. Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- 8. Dispose waste off-site at an approved disposal facility.
- On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- 2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site.
- 5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

ORTABLE TOILETS

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
- 2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- 3. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

ARTHEN STOCKPILE MANAGEMENT

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- 2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- 3. Provide stable stone access point when feasible.
- 4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.





SHEET NO.

C0.03

ABILIZATION AND MATERIALS HANDLING



		SELF-INSPECTI	PART III ON, RECORDKEEPING AND REPORTING] [SELF-INSPECTION, REG	PART III CORDKEEPING AND REPORTING
E	SECTION A: SEL Self-inspections below. When a personnel to be which it is safe to greater than 1.0 performed upor	F-INSPECTION are required duri dverse weather of in jeopardy, the i to perform the ins o inch occurs outsi o the commencer	ng normal business hours in accordance with the table r site conditions would cause the safety of the inspection nspection may be delayed until the next business day on pection. In addition, when a storm event of equal to or de of normal business hours, the self-inspection shall be		<u>SE</u> 1.	EXAMPLE 2 EXAMPLE 2 EXAM	proved deviation shall be kept on the site. The late throughout the coverage under this permit. C plan shall be kept on site and available for ness hours.
	were delayed sh	hall be noted in th	e Inspection Record.			Item to Document	Documentation Requirements
	Inspect (1) Rain gauge maintained in good working order	Frequency (during normal business hours) Daily	Inspection records must include: Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un- attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as			(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
	(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain	 "zero." The permittee may use another rain-monitoring device approved by the Division. 1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating 			 (b) A phase of grading has been completed. (c) Ground cover is located and installed 	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
D	(3) Stormwater	event ≥ 1.0 inch in 24 hours At least once per	 properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken. 1. Identification of the discharge outfalls inspected, 			in accordance with the approved E&SC plan.	plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
	discharge outfalls (SDCs)	7 calendar days and within 24 hours of a rain event \geq 1.0 inch in	 Date and time of the inspection, Name of the person performing the inspection, Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 			(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
_	(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain	 5. Indication of Visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken. If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 			(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.
C	(5) Streams or wetlands onsite or offsite (where accessible) (6) Ground stabilization measures	event ≥ 1.0 inch in 24 hours At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours After each phase of grading	 Description, evidence, and date of corrective actions taken, and An explanation as to the actions taken to control future releases. If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: Description, evidence and date of corrective actions taken, and Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). Documentation that the required ground stabilization measures have been provided within the required 		(Additional Documentation to be kept on In addition to the E&SC plan documents a site and available for inspectors at all time Division provides a site-specific exemption this requirement not practical: a) This General Permit as well as the Cer b) Records of inspections made during t record the required observations on t Division or a similar inspection form t electronically-available records in lief shown to provide equal access and ut 	bove, the following items shall be kept on the so during normal business hours, unless the based on unique site conditions that make tificate of Coverage, after it is received. The previous twelve months. The permittee shall he Inspection Record Form provided by the hat includes all the required elements. Use of u of the required paper copies will be allowed if ility as the hard-copy records.
	NOTE: The rai	n inspection reset	timeframe or an assurance that they will be provided as soon as possible.		3.	Documentation to be Retained for Three All data used to complete the e-NOI and a of three years after project completion an	Years I inspection records shall be maintained for a peri d made available upon request. [40 CFR 122.41]
B	Sediment basins for maintenance Non-surface with (a) The E&SC shall not of (b) The non-s (c) Dewaterin properly s (d) Vegetated (e) Velocity d (f) Sediment	and traps that re or close out unle hdrawals from sec plan authority ha commence until th surface withdrawa ng discharges are to ited, designed and d, upland areas of issipation devices removed from the	PART II DRAW DOWN OF SEDIMENT ceive runoff from drainage areas of one acre or more shall ss this is infeasible. The circumstances in which it is not fe diment basins shall be allowed only when all of the followin as been provided with documentation of the non-surface the E&SC plan authority has approved these items, I has been reported as an anticipated bypass in accordance treated with controls to minimize discharges of pollutants d maintained dewatering tanks, weir tanks, and filtration s the sites or a properly designed stone pad is used to the e such as check dams, sediment traps, and riprap are provide e dewatering treatment devices described in Item (c) abov	I, SEC BASI I use easibling cri with with from system exten ded a ve is c	e out ble to criteri hdrav with Pa m sto ems, nt fea at th s disp	ON G, ITEM (4) FOR MAINTENANCE OR CLOSE OUT let structures that withdraw water from the o withdraw water from the surface shall be ia have been met: wal and the specific time periods or conditional and the specific time periods or conditional and	e surface when these devices need to be drawn of e rare (for example, times with extended cold weat ons in which it will occur. The non-surface withdra permit, ent basin. Examples of appropriate controls includ comment devices described in Item (c) above, es, and eposition of sediment into waters of the United S
			NCG01 SELF-INS	5P]	ΡE	CTION, RECOR	DKEEPING AND R

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PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

- **1. Occurrences that Must be Reported** Permittees shall report the following occurrences:
- (a) Visible sediment deposition in a stream or wetland.
- (b) Oil spills if:
 - They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).
- (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- (d) Anticipated bypasses and unanticipated bypasses.
- environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Ti
(a) Visible sediment	Within 24
deposition in a	Within 7 d
stream or wetland	sediment
	Division s
	case-by-ca
	 If the stre
	related ca
	monitorin
	determine
	with the f
(b) Oil spills and	• Within 24
release of	shall inclu
hazardous	location o
substances per Item	
1(b)-(c) above	
(c) Anticipated	A report of
bypasses [40 CFR	The repor
122.41(m)(3)]	effect of t
(d) Unanticipated	Within 24
bypasses [40 CFR	• Within 7 (
122.41(m)(3)]	quality an
(e) Noncompliance	Within 24
with the conditions	• Within 7 d
of this permit that	noncomp
may endanger	including
health or the	been corr
environment[40	continue;
CFR 122.41(I)(7)]	prevent re
	Division st
	case-by-ca

REPORTING

		Ę)
_	-	_	-

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA

(e) Noncompliance with the conditions of this permit that may endanger health or the

imeframes (After Discovery) and Other Requirements 4 hours, an oral or electronic notification. calendar days, a report that contains a description of the

- and actions taken to address the cause of the deposition. staff may waive the requirement for a written report on a ase basis.
- eam is named on the NC 303(d) list as impaired for sedimentauses, the permittee may be required to perform additional ng, inspections or apply more stringent practices if staff ne that additional requirements are needed to assure compliance
- federal or state impaired-waters conditions. *hours*, an oral or electronic notification. The notification ude information about the date, time, nature, volume and of the spill or release.

at least ten days before the date of the bypass, if possible. ort shall include an evaluation of the anticipated quality and the bypass.

- 4 hours, an oral or electronic notification.
- calendar days, a report that includes an evaluation of the nd effect of the bypass.
- 4 hours, an oral or electronic notification.

calendar days, a report that contains a description of the pliance, and its causes; the period of noncompliance, exact dates and times, and if the noncompliance has not rected, the anticipated time noncompliance is expected to ; and steps taken or planned to reduce, eliminate, and eoccurrence of the noncompliance. [40 CFR 122.41(I)(6). staff may waive the requirement for a written report on a case basis.



EFFECTIVE: 04/01/19

IBALEY ROAD PARK BALEY ROAD PARK BALEY ROAD PARK CONSTRUCTION DOCUMENTS	SEAL: BAILEY ROAD PARK BAILEY ROAD PARK DAVISION DOCUMENTS SEAT: CONSTRUCTION DOCUMENTS	SEAL: SCALE:	SEAL: SCALE: REVISIONS REVISIO		Fax: 704.509.99 www.dewberry.c NCBELS #F-09 NCBOLA #C-47	99918 3269 9918 37 20 29 8
SEAL:	SEAL:	SEAL: SEAL: SEAL: SEAL:	SEAL: VICE 1622 1622 VICE SEAL:	BAILEY ROAD PARK	EXPANSION - PHASE I	CONSTRUCTION DOCUMENTS 11536 BAILEY ROAD
SEAL:	SEAL: SCALE:	SEAL: SCALE: REVISIONS I <tdi< td=""> I</tdi<>	SEAL: SCALE: SCALE: REVISIONS I I I 04/24/2024 BN/DB AGENCY COMMENTS NO. DATE BY	SEAL:		11 × 11 11 11 11 1
	SCALE:	SCALE:	REVISIONS I I I	SEAL:		

SHEET NO.

DEI PROJECT NO: 50168691

C0.04





(TYP.)(MCLDS STD. #30.19) PROPOSED HORIZONTAL DEFLECTION IN PVC PIPE WITH 22.5 DEGREE BEND BAILEY ROAD/SR 2416 — PROPOSED RIP-RAP APRON @ INV = 777.52' 60' PUBLIC R/W (TYP.)(MCLDS STD. #20.23) MB 34, PG 731 EDGE OF PAVEMEN - PROPOSED HORIZONTAL DEFLECTION IN PVC --- CONTRACTOR SHALL PIPE WITH 45 DEGREE BEND DAYLIGHT PROPOSED 6" @ INV = 778.91' SCH 40 PVC UNDERDRAIN INV OUT = 771.00 NCDOT R/W (TYP. LV_ - PROPOSED SILT FENCE $\Delta \mathbf{\nu}$ -^V (TYP.)(MCLDS STD. #30.06A) VD PROPOSED SILT FENCE OUTLET (TYP.)(MCLDS STD. #30.06D) 50' FRONT SETBACK X X X AREA TO OUTLET: 0.25 AC \neq PROP. TEMPORARY DIVERSION DITCH (TYP.) - PROP. TEMPORARY SLOPE DRAIN (TYP.) CONTRACTOR SHALL SET THE FIRST 86' OF PROPOSED 6" SCH 40 PVC - CONTRACTOR SHALL CLEAR AND UNDERDRAIN @ 10.00% GRUB 5.05 ACRES OF EXISTING INV IN = 787.56' VEGETATED AREA AFTER INSTALLATION OF PHASE I EROSION - CONTRACTOR SHALL CONTROL MEASURES (TYP.) REMOVE AND DISPOSE OF EXISTING TREE (TYP.) - PROPOSED 2.0" SKIMMER WITH 1.6" ORIFICE (MCLDS STD. #30.02A) PROPOSED SKIMMER SEDIMENT BASIN PROPOSED BIODEGRADABLE (100% STRAW FIBER WITH NETTING) EMBANKMENT MATTING PROPOSED CONCRETE WASHOUT WITH UNIT WEIGHT OF 0.5 LBS/SQ-YD (SEE DETAIL SHEET C5.02) (TYP.)(MCLDS STD. #30.20) CONTRACTOR SHALL REMOVE - PROPOSED CONCRETE SPILLWAY AT AND DISPOSE OF 534 LF OF INV = 794.5 (SEE DETAIL SHEET C3.09) EXISTING BARBED WIRE FENCE OWN/OF CORNEL DB 20327, PG\437 PROPOSED CONSTRUCTION ENTRANCE -MB 3,4, PG (TYP.)(MCLDS STD. #30.11A) PARCEL 007131 - PROPOSED CHECK DAM CONTRACTOR SHALL REMOVE EXISTING SIGN, (TYP.)(MCLDS STD. #30.10A) STORE ON SITE, AND COORDINATE WITH OWNER ON RE-INSTALLATION AT THE END OF CONSTRUCTION PROPOSED PERMANENT DIVERSION CHANNEL (SEE DETAIL SHEET C5.08) AREA TO OUTLET: 0.16 AC CONTRACTOR SHALL -AREA TO PROTECT EXISTING SANITARY OUTLET: SEWER TO REMAIN (TYP.) 0.17 AC PROPOSED 4' HT ORANGE CONSTRUCTION -SAFETY FENCE (TYP.)(SEE DETAIL SHEET C5.01) ····· PROPOSED INLET PROTECTION -(TYP.)(MCLDS STD. #30.09) AREA TO OUTLET: <u>x°__x X°__x X°__x</u> 0.15 AC

AREA TO

OUTLET:

0.25 AC

CONTRACTOR SHALL SAW CUT ASPHALT

CONTRACTOR SHALL REMOVE AND DISPOSE OF 161 LF OF EXISTING CURB AND GUTTER (SEE CALLOUT ON SHEET C1.03)











SHEET NO.

DEI PROJECT NO: 50168691

STORM PROFILES

Dry Pond							
Maintenance Tasks and Schedule							
TASK	SCHEDULE						
ction and cleanout	Monthly inspection. Remove sediment every 7 years or when sediment volume exceeds 50% of storage volume						
and inspection / f eroded areas	Monthly (maintain 3 – 6 inch grass height)						
nspection and cleanout	Monthly						
etation and trash removal	Monthly						
ictural damage, leaks, etc.	Yearly						
ise all mechanical s, etc.	Yearly						
nent level (remove as	Yearly						
	As needed						

	Services						
BMP Inset Table							
Extended Dry Detention							
	BAILEY ROAD TENNIS AND						
	PICKLEBALL COURTS						
:	RENOVATION						
	2						
at WQv (sq. ft.):	13,007.00						
at top of berm (sq. ft.):	23,784						
a (acres):	19.987						
velopment Type:	> 2 acres - Residential Open Space						
/pe:	Grassed						
Upon Area:	25%						
pth (ft.):	6						
sin Type:	Surface						
sent (Y/N):	Y						
s Present (Y/N):	Ν						
	Post Construction Ordinance						
ectiveness:	Standard						
ne X (easting):	629457						
ne V (northing):	1/50532						

	EXTENDED DRY DETENTION BMP								
	PRE-DEVELOPMENT RUNOFF	POST-DEVELOPMENT RUNOFF	POST-ROUTING RUNOFF	ELEVATION					
				777.00					
	14.70 CFS	51.99 CFS	22.41 CFS	776.39					
	10.89 CFS	42.29 CFS	10.83 CFS	776.11					
	6.68 CFS	30.56 CFS	6.51 CFS	775.28					
BMP		REQUIRED	PROVIDED	ELEVATION					
EC	TION VOLUME (CPv)	36721 CF	41121 CF	774.17					
N				771.00					
١									
	226076 SF								

A

- TOPOGRAPHIC INFORMATION, SHOWN WITHIN PROJECT LIMITS, BASED ON INFORMATION PROVIDED BY BASE DATA FROM MECKLENBURG COUNTY GIS AND SURVEY PREPARED BY DEWBERRY ENGINEERS INC. ON APRIL 15, 2024.
- UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODE
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES (STORM DRAINAGE ELECTRIC, GAS, TELEPHONE, ETC.) PRIOR TO CONSTRUCTION. INFORMATION SHOWN ON THIS PLAN IS FOR REFERENCE ONLY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- 4. THE CONTRACTOR SHALL NOTIFY THE OWNER/DESIGNER OF RECORD IMMEDIATELY IF ANY DISCREPANCIES BETWEEN THE CONSTRUCTION PLANS AND ACTUAL FIELD CONDITIONS ARE FOUND.
- MINIMUM COVER FOR ALL SANITARY SEWER MAINS SHALL BE 3'-0". DUCTILE IRON PIPE WILL BE SUBSTITUTED WHEN MINIMUM COVER CAN NOT BE
- 6. THE STANDARD DEPTH OF COVER FOR WATER MAINS SHALL BE 3'-0" MIN. EXCEPT AT VALVE OR HYDRANT LOCATIONS, OR OTHER SPECIAL
- 7. THE CONNECTION TO EXISTING WATER MAINS SHALL BE PERFORMED ONLY AFTER ALL PRESSURE TESTING AND CHLORINATION ARE SUCCESSFULLY COMPLETED AND THE LOCAL REVIEW AUTHORITY HAS APPROVED THE CONNECTION. THE CONTRACTOR SHALL AVOID DISRUPTION OF
- REFER TO PLUMBING DRAWING SERIES FOR THE LOCATION OF WATER AND SANITARY SEWER SERVICE CONNECTIONS AT THE BUILDING.
- 9. UNLESS OTHERWISE NOTED, THE PHYSICAL CONNECTION BETWEEN THE SITE UTILITY LINES AND THE PIPE INSTALLED BY THE PLUMBING CONTRACTOR SHALL BE MADE BY THE SITE
- 10. PIPE LENGTHS SHOWN ON PLAN ARE THE ENGINEER'S ESTIMATE USED TO COMPUTE PIPE SLOPES AND INVERTS AND SHALL NOT BE CONSTRUED BY THE CONTRACTOR TO REPRESENT THE ACTUAL QUANTITY OF PIPE REQUIRED.

- 11. IF WATER LINE CROSSES OVER SANITARY SEWER WITH LESS THAN 18 INCHES VERTICAL CLEARANCE BOTH PIPES SHALL BE DUCTILE IRON 10' EACH SIDE. IF WATER CROSSES UNDER THE SEWER REGARDLESS OF CLEARANCE, BOTH PIPES SHALL BE DUCTILE IRON 10' EACH SIDE. IF WATER LINE RUNS PARALLEL TO SEWER LINE WITH LESS THAN 18" VERTICAL CLEARANCE AND LESS THAN 10' SIDE CLEARANCE BOTH PIPES SHALL BE DUCTILE IRON.
- 12. IF REQUIRED BY NOTE 11 ABOVE, REPLACE EXISTING SEWER WITH DUCTILE IRON PIPE, CLASS 350 WORKING PRESSURE WITH GASKETED JOINTS, 10' EACH SIDE OF WATER MAIN.
- 13. THERE SHOULD BE A MIN. 12" VERTICAL CROSSING SEPARATION BETWEEN STORM DRAINS AND WATER OR SEWER LINES, WHERE THERE IS LESS THAN 12" VERTICAL SEPARATION FERROUS MATERIAL SHALL BE LAID FOR 10' EITHER SIDE OF CROSSING, FOR SEWER AND WATER LINES.
- 14. PRIOR TO BACK FILLING WATER AND SEWER TRENCHES, CONTACT ENGINEER WITH AT LEAST 24 HOURS NOTICE OF INSTALLATION TO SCHEDULE INSPECTION OF LINES.
- 15. ALL SANITARY SEWER SHALL BE SDR-35 PIPE UNLESS OTHERWISE NOTED.
- 16. EACH CHARLOTTE WATER REQUIRED BPA IS REQUIRED TO BE TESTED BY A CHARLOTTE WATER APPROVED CERTIFIED TESTER PRIOR TO PLACING THE WATER SYSTEM IN SERVICE.
- 17. ALL WATER METERS SHALL BE CHARLOTTE WATER BACKFLOW COMPLIANT.
- 18. CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL TESTS & SUPPLYING TESTING EQUIPMENT NECESSARY TO PROVIDE ENGINEER'S **CERTIFICATION FOR WATER & SEWER LINES PER** STATE & LOCAL REQUIREMENTS. CONTRACTOR SHALL SCHEDULE ALL TESTING W/ ENGINEER AT LEAST 2 BUSINESS DAYS PRIOR TO THE TEST.
- 19. CONTRACTOR SHALL INSTALL CONCRETE THRUST BLOCKS OR RESTRAINED JOINT PIPE @ ALL BENDS & TEES. CONCRETE THRUST BLOCKS & RESTRAINED JOINT PIPE SHALL MEET ALL STATE & CHARLOTTE WATER REQUIREMENTS.
- 20. CONTRACTOR SHALL COORDINATE WITH UTILITY PROVIDER AND OWNER'S LIGHTING CONTRACTOR ON INSTALLATION OF ELECTRICAL CONDUITS, ELECTRICAL EQUIPMENT, TRANSFORMER PAD, AND SITE LIGHTING.

WASTEWATER TREATMENT PLANT RECEIVING WASTEWATER

NOTICE TO CONTRACTOR:

- THIS LAND DEVELOPMENT PLAN HAS NOT BEEN REVIEWED OR APPROVED BY CHARLOTTE WATER VIA EPM. PRIOR TO CONSTRUCTION PLEASE CONTACT MIKE GARBARK (MGARBARK@CI.CHARLOTTE.NC.US OR 704-432-5797) WITH CHARLOTTE WATER REGARDING YOUR DEVELOPMENT. LAND DEVELOPMENT PLAN REVISIONS DUE TO PLAN COMMENTS BY
- CHARLOTTE WATER WOULD REQUIRE SUBMISSION OF A REVISED CONSTRUCTION PLAN TO THE TOWN/COUNTY FOR REVIEW. ALL ADDITIONAL FEES DUE TO THE PLAN REVISION TO BE PAID BY THE OWNER/DEVELOPER/CONTRACTOR.

CLT WATER NOTES:

- CUSTOMER IS RESPONSIBLE FOR STAKING SITE AS NECESSARY TO DETERMINE SERVICE LOCATIONS & ELEVATIONS PRIOR TO CLT WATER WATER CONTRACTOR MOBILIZING TO INSTALL SERVICES. SITE ADDRESS MUST BE VISIBLY POSTED AT SITE
- 2. ON-SITE CONTRACTOR IS RESPONSIBLE FOR RELOCATING ANY APPLICABLE CONFLICTING UTILITIES NECESSARY TO COMPLETE SERVICE INSTALLATIONS. ADDITIONAL FEES MAY APPLY & CONSTRUCTION TIMELINES EXTENDED IF CONFLICTING UTILITIES ARE NOT SHOWN ON PLANS.
- WATER AND SEWER CONNECTIONS SHALL NOT BE LOCATED WITHIN PROPOSED CONSTRUCTION ENTRANCES. 4. PAYMENT FOR A QUOTED SERVICE CONNECTION SHALL BE CONSIDERED
- ACKNOWLEDGEMENT & APPROVAL OF CLT WATER COMMENTS BY THE APPLICANT; PAYMENT DOES NOR INCLUDE ANY ADDITIONAL FEES REQUIRED DUE TO UNFORESEEN CONDITIONS THAT ARE/WERE NOT DEPICTED ON THE SITE PLAN PROVIDED BY THE APPLICANT.
- 5. BACKFLOW PREVENTION REVIEW SHALL BE COORDINATED THOUGH MECK. CO. CODE ENFORCEMENT PERMITTING PROCESS AT THE TIME OF APPLICATION FOR BUILDING PERMITS. THESE REQUIREMENTS CAN BE FOUND AT HTTP://CHARLOTTENC.GOV/WATER/PAGHES/BACKFLOWCONSTRUCTIONGUIDELINES.ASPZ PLEASE CONTACT MARK KROUSE AT (704) 432-5800 FOR MORE INFORMATION. ANY REVISION TO TAP AND/OR METER LOCATIONS MAY BE SUBJECT TO RESUBMITTAL TO BACKFLOW FOR REVIEW.

WATER DEMAND CALCULATION RESULTS

DEMAND TYPE	DEMAND FLOW (GPM)	CORRESPONDING METER (CLT WATER METER CHART)

C40

CAST IRON

EXPANSION JOINT —

S-

SECTION R-R

			MIN	IIMUM DI	IMENSIONS AND	QUANT:	ITIES FO	DR CONC	RETE CAT	TCH BAS	IN(BASE	D ON MI	N. HEIG	НΤ, Η,	V
	DIMEN	ISIONS C	F BOX A	ND PIPE		COV	'ER								Γ
PIPE	SPAN	WIDTH	WIDTH	SPAN	MIN. HEIGHT	DIMENSION		BAR	S-U	BAR	S-V	BAR	S-W	TOTAL	Γ
D	А	В	С	G	Н	E	F	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	LBS.	I
12″	3'-0"	2'-2"			2'-9"										Γ
15″	3'-0"	2'-2"			3'-0"										I
18″	3'-0"	2'-2"			3'-3"										Ī
24″	3'-0"	2'-2"			3'-9"										Ī
30″	3'-0"	2'-2"	3'-4"		4'-3"	1'-2"	4'-0"	4	1'-5"	2	3'-9"	3	3'-9"	39	Î
36″	3'-0"	2'-2"	3'-10"		4'-9"	1'-8"	4'-0"	4	1'-11"	3	3'-9"	3	3'-9"	43	Ī
42″	3'-0"	2'-2"		4'-5"	5'-3"	1'-5″	3'-2"	4	1'-8"	2	2'-11"	3	2'-11"	32	Γ
48″	3'-0"	2'-2"		5'-0"	5'-9"	2'-0"	3'-2"	4	2'-3"	3	2'-11"	3	2'-11"	35	Ī
54″	3'-0"	2'-2"		5'-7"	6'-3"	2'-7"	3'-2"	4	2'-10"	5	2'-11"	3	2'-11"	41	Ī

D

С

В

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2′-3¼″

SECTION H-H

→ | → 2'

1³/₁₆"---

2

C5.07

SHEET NO.

DEI PROJECT NO: 50168691

DATE

TITLE

STORM DETAILS (SHEET 1 OF 4)

FEBRUARY 9, 2024

D С В

DEI PROJECT NO: 50168691

STORM DETAILS (SHEET 3 OF 4)

C5.09

	1 2
E	EXISTING PROPERTY LINE EXISTING POWER EASEMENT EXISTING FENCE PROPOSED CURB AND GUTTER EXISTING POWER POLE PROPOSED CONCRETE EXISTING POWER POLE PROPOSED FENCE EXISTING GURHEAD POWER LINE PROPOSED FENCE EXISTING SANITARY SEWER MANHOLE PROPOSED FENCE EXISTING SANITARY SEWER MANHOLE EXISTING SANITARY SEWER MANHOLE EXISTING WATER METER EXISTING GURB INLET EXISTING GURB INLET EXISTING CURB INLET EXISTING CURB INLET EXISTING ELECTRICAL TOWER
D	CONTRACTOR SHALL PERMANENTLY SEED ALL DISTURBED AREAS USING FESCUE REBEL II OR APPROVED EQUAL (TYP.)
C	TOWN OF CORNELIUS DB 11686, PG 548 PARCEL 00713113
	to Prince
В	
A	TOWN OF CORNELIUS LAND DEVELOPMENT CODE SECTION 9.4.2.3 TYPE C INTERIOR AND PERIMETER PLANTINGS LOCATION & REQUIRED USAGE: INTERIORS OF ALL PARKING AREAS THIS TYPE FUNCTIONS AS A TREE CELLING OVER A PARKING AREA PROVIDING SHELTER FROM SUN AND RAIN. LARGE MATURING CANOPY TREES SHALL BE PLANTED IN A MANNER THAT PROVIDES SHADE FOR THE ENTIRE PARKING AREA AT MATURITY. TO THIS END, NO PARKING SPACE SHALL BE MORE THAN 60 FEET FROM THE BASE OF A CANOPY TREE. THE USE OF DIFFERING SPACE SHALL BE MORE THAN 60 FEET FROM THE BASE OF A CANOPY TREE. THE USE OF DUFFERING SPECIES AROUND THE PARKING AREA AT MATURITY. TO THIS SCHOL PRECOURAGED SUPPLEMENTAL PLANTINGS MAY BE REQUIRED IN ADDITION TO NATIVE MATERIALS. THE ZONING ADMINISTRATOR OR DESIGNEE MAY, AT THEIR DISCRETION, REDUCE THE REQUIRED TYPE C BUFFER ON THE SUBJECT PROPERTY. PARKING AREA PERIMETER (NON-STREET FRONT) PLANTINGS • MINIMUM 10' WIDE BUFFER • MINIMUM 10' WIDE BUFFER • MINIMUM 10' WIDE BUFFER
	 SHRUB PLANTINGS SHALL HAVE NO UNOBSTRUCTED OPENINGS WIDER THAN 4'. AT LEAST 75% OF THE REQUIRED SHRUBS SHALL BE EVERGREEN SPECIES LOCALLY ADAPTED TO THE AREA.

		NOTES:
	LANDSCAPE NOTES	1. REMOVE WIRE
	 TREE AND VEGETATION PROTECTION 1. TREES AND VEGETATION ADJACENT TO THE ACTUAL WORK AREA OR BORROW AREA SHALL BE PROTECTED WITH TEMPORARY FENCING (CHAIN LINK FENCE FOR TREES; CONSTRUCTION SAFETY FENCE FOR VEGETATION) TO PRESERVE EXISTING ITEMS 	 SOAK ROOT B/ STAKING IS RE REQUEST OF A REMOVE EXCES
	INDICATED TO REMAIN AND TO PREVENT DAMAGE TO PROPERTY.	LEGAL MANNEF 5. RESEED UNMUL
Е	2. ANY TREES AND/OR SHRUBS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR IN COORDINATION WITH THE OWNER.	
	3. THE PARKING OF VEHICLES AND STORAGE OF ANY CONSTRUCTION EQUIPMENT OR MATERIALS SHALL NOT OCCUR UNDER THE DRIP LINE OF TREES.	
	 BACKFILL AND COMPACTION SHALL BE COMPLETED TO THE SATISFACTION OF THE OWNER. 	
	MAINTENANCE SURETY REQUIRED	
	1. DEVELOPERS SHALL ENTER INTO A MAINTENANCE SURETY AGREEMENT WITH THE	
	TOWN OF CORNELIUS GUARANTEEING THE VIABILITY OF TREES AND SHRUBS PLANTED IN BUFFER YARDS FOR A PERIOD OF 1 YEAR FOLLOWING PLANTING. THE AMOUNT OF THE SURETY SHALL BE EQUAL TO 50% OF THE VALUE OF THE NEW TREES OR LANDSCAPE MATERIAL AND THEIR INSTALLATION. THE MAINTENANCE SURETY SHALL BE PROVIDED WHEN ALL OF THE REQUIRED TREES AND SHRUBS HAVE BEEN PLANTED.	
	 SIZE, QUALITY AND OVERALL HEALTH OF ALL PLAN MATERIAL USED SHALL CONFORM TO THE LATEST EDITION OF "USA STANDARDS FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. 	
	3. CONTRACTOR SHALL MULCH SHALL SHRUB BEDS AND TREES WITH DOUBLE HAMMERED HARDWOOD MULCH SPREAD TO APPROXIMATELY 4" DEPTH.	
	 ALL AREAS OUTSIDE OF PLANTING BEDS WITHIN LIMITS OF WORK/LIMITS OF DISTURBANCE TO BE PLANTED WITH REBEL II FESCUE SEED - SEE PLAN FOR DETAILS. 	APPROVED DA
	5. CONTRACTOR IS RESPONSIBLE FOR ALL PLANTS SHOWN ON PLANS. QUANTITIES ARE FOR CONVENIENCE ONLY. IF THERE IS A DISCREPANCY BETWEEN THE PLAN AND PLANT SCHEDULE; PLAN SHALL PREVAIL.	MECKLENBURG LAND DEVEL
П	6. ALL CONSTRUCTION MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM WITH MECKLENBURG COUNTY AND TOWN OF CORNELIUS STANDARDS.	
D	 CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO INSTALLATION AND NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IF FIELD CONDITIONS WARRANT ADJUSTMENT OF PLANT MATERIALS. 	
	8. COORDINATE LANDSCAPE INSTALLATION WITH ANY LIGHTING/IRRIGATION CONSTRUCTION.	
	9. LARGE MATURING TREES MUST BE A MINIMUM 25 FEET FROM OVERHEAD DISTRIBUTION OR TRANSMISSION LINES. COORDINATE PLANTINGS WITH THE PROPER POWER COMPANY IF NECESSARY. IF TREES CONFLICT WITH POWER LINES OR SIGNS NOTIFY LANDSCAPE ARCHITECT TO RESOLVE BEFORE PLANTING.	
	 WITHIN PLANT BED AREAS CONTRACTOR IS RESPONSIBLE FOR THE VIABILITY OF ALL PLANT MATERIAL FOR A MIN. PERIOD OF 90 DAYS AFTER ACCEPTANCE FROM OWNER BUT MAY ALSO BE BONDED FOR WARRANTEE BY LOCAL ORDINANCE OR DEVELOPMENT CONDITIONS IN THE EVENT THAT LANDSCAPE MAINTENANCE IS PROVIDED BY ANOTHER CONTRACTOR, 90 DAY WARRANTY SHALL BE TRANSFERABLE TO MAINTENANCE CONTRACTOR 	то
	11. CONTRACTOR SHALL REMOVE ALL LUMPS OF CLAY, STONES OVER 1" IN DIAMETER AND ALL COMPACTED SOIL OR CONSTRUCTION DEBRIS INCLUDING PAVEMENT, GRAVEL, ROOTS, LIMBS AND OTHER DELETERIOUS MATTER WHICH WOULD BE HARMFUL OR PREVENT PROPER ESTABLISHMENT AND/OR MAINTENANCE OF LAWN AND TREE PLANTING AREAS.	
	12. CONTRACTOR SHALL REPAIR (RESEED OR SOD) ANY LAWN AREAS DAMAGED DUE TO PLANT MATERIAL INSTALLATION.	
С	13. CONTRACTOR SHALL COORDINATE ALL PLANTINGS IN ANY RIGHT-OF-WAY WITH THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION AND LOCAL TRANSPORTATION DEPARTMENT AND RECEIVE ANY NECESSARY ENCROACHMENT AGREEMENTS.	
Ū	14. CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES AND ASSURING THAT ALL UTILITIES ARE LOCATED PRIOR TO CONSTRUCTION.	
	15. CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES, USING FLAG MEN, AND MAINTENANCE OF TRAFFIC AS NECESSARY TO INSURE PUBLIC SAFETY.	
	16. ALL STRAPPING AND TOP $\frac{2}{3}$ OF WIRE BASKET MUST BE CUT AWAY AND REMOVED FROM ROOT BALL PRIOR TO BACK FILLING PLANTING PITS. REMOVE TOP $\frac{1}{3}$ OF BURLAP FROM BALL	APPROVED DA
	17. CONTRACTOR RESPONSIBLE FOR VERIFYING ALL SPECIFICATIONS AND INSTALLATION REQUIREMENTS OF IRRIGATION, LIGHTING, AND VINYL FENCING TO ENSURE THAT PRODUCTS ARE INSTALLED PROPERLY AND PER MANUFACTURER REQUIREMENTS AND LOCAL AGENCY CODES & RESTRICTIONS.	MECKLENBURG LAND DEVEL STANDA
	18. DEWBERRY ENGINEERS INC. IS NOT RESPONSIBLE FOR INSTALLATION OR DESIGN OF LIGHTING, FENCING, OR IRRIGATION. THE INSTALLATION REQUIREMENTS AND DESIGN IS THE RESPONSIBILITY OF THE CONTRACTOR.	
	19. CONTRACTOR RESPONSIBLE FOR LOCATING SIGHT DISTANCE AND SIGHT TRIANGLES PRIOR TO INSTALLATION OF PLANT MATERIALS, MONUMENTS, SIGNS, LIGHTING, AND/OR FENCES. CONTRACTOR SHALL INSTALL PLANT MATERIALS, MONUMENTS, SIGNS, LIGHTING, AND/OR FENCES OUTSIDE OF SIGHT TRIANGLES AND/OR SIGHT DISTANCE LINES WHERE PLANT MATERIAL HAS TO BE INSTALLED IN ROW. SHRUBS SHALL BE TRIMMED TO 36" HEIGHT, AND TREES SHALL BE LIMBED UP TO 72".	
B	20. CANOPY TREES SHALL BE MINIMUM OF 2" CALIPER AND HAVE A MINIMUM HEIGHT OF 10 FT FROM THE GROUND SURFACE AT THE TIME OF PLANTING, UNDERSTORY TREES SHALL BE A MINIMUM OF 2" CALIPER AND HAVE A MINIMUM HEIGHT OF 8 FT FROM THE GROUND SURFACE AT THE TIME OF PLANTING. EVERGREEN TREES SHALL BE A MINIMUM OF 3" CALIPER AND HAVE A MINIMUM OF 6 FT FROM THE GROUND SURFACE AT THE TIME OF PLANTING.	
_	SOIL AMENDMENTS	
	ALL PLANTING BEDS/PLANTING PITS TO BE TILLED AT A MINIMUM OF 1'-0" DEPTH AND	
	RECEIVE AN AMENDED TOPSOIL MIXTURE APPROPRIATE FOR GOOD PLANT GROWTH AND ADEQUATE DRAINAGE. SOIL MIXTURE SHALL BE COMPOSED OF A MINIMUM 20% GOOD GARDEN SOIL (3 ¹ / ₂ PARTS GOOD GARDEN SOIL, ¹ / ₂ PART COMPOST OR ORGANIC MATTER, 1 POUND OF LIME PER CUBIC FOOT) OR RECOMMENDED SOIL AMENDMENTS AND SOIL	
	COMPOSITE BASED UPON RECOMMENDATION FROM SOIL TESTS. A MINIMUM OF ONE SOIL TEST IS REQUIRED FOR THIS SITE.	

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