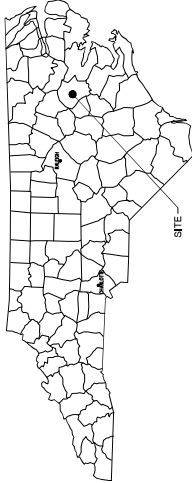
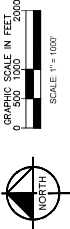
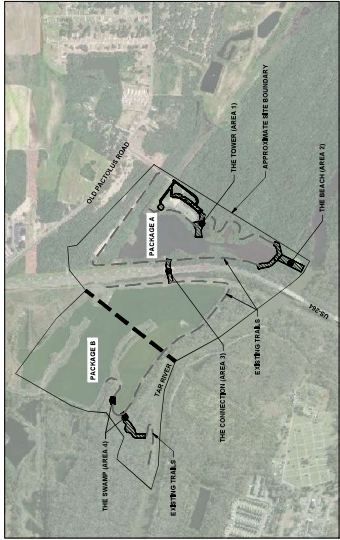


CONSTRUCTION DRAWINGS FOR BID
FOR
WILDWOOD PARK - TOWER AND TRAILS
BID PACKAGE A
CITY OF GREENVILLE
RECREATION & PARKS DEPARTMENT
2000 CEDAR LANE
GREENVILLE, NC 27858
PITT COUNTY

OVERALL SITE DATA	
MUNICIPALITY:	CITY OF GREENVILLE
OWNER:	CITY OF GREENVILLE, 2000 CEDAR LANE, GREENVILLE, NC 27858
LAND USE CLASSIFICATION:	(R) RECREATION/AMUSEMENT
TOTAL PARCEL ACREAGE:	59.9 ACRES
TOTAL SITE ACREAGE:	59.9 ACRES
PROPOSED TOWER FLOOR AREA:	1,033 SF (2 STOREY)
PROPOSED TOWER HEIGHT:	120 FEET (2 STOREY)
TOTAL PARKING:	N/A
TOTAL ACCESSIBLE PARKING:	N/A
TOTAL AREA BEYOND REED:	1.93 ACRES
EXISTING TOWER FLOOR AREA:	1,033 SF (2 STOREY)
PROPOSED TOWER FLOOR AREA:	1,033 SF (2 STOREY)
TOTAL IMPROVED AREA:	157,252 SF (3.61 ACRES)
WATERSHED:	JOHNSON WILKINSON CREEK (TRIMBLE) WATERSHED

PARCEL DATA				
PARCEL NO./PIN	1	2	3	4
PARCEL NUMBER:	488725464	488834878	488843059	488833000
OWNER:	08480	08480	08480	08480
LEGAL DESCRIPTION:	LOT 10, GREENVILLE, CITY OF GREENVILLE, GREENVILLE, NC 27858	LOT 11, GREENVILLE, CITY OF GREENVILLE, GREENVILLE, NC 27858	LOT 12, GREENVILLE, CITY OF GREENVILLE, GREENVILLE, NC 27858	LOT 13, GREENVILLE, CITY OF GREENVILLE, GREENVILLE, NC 27858
DEED REFERENCE:	4888.12.24.04.00	4888.12.24.04.00	4888.12.24.04.00	4888.12.24.04.00
CURRENT ZONING:	DR. 4888.PS. 351	DR. 4888.PS. 351	DR. 4888.PS. 351	DR. 4888.PS. 351
CENSUS TRACT:	800	800	800	800
APPROXIMATE AREA:	3.09 AC	3.09 AC	3.09 AC	3.09 AC



OWNER/DEVELOPER
CITY OF GREENVILLE
GREENVILLE RECREATION & PARKS DEPARTMENT
2000 CEDAR LANE
GREENVILLE, NC 27858
PHONE: (252) 358-1001
CONTACT: JEREMY R. HAMM, AEP
EMAIL: JHAMM@CITYOFGREENVILLE.GOV

SURVEYOR
RIVERS & ASSOCIATES, INC.
1000 RIVERSIDE DRIVE
GREENVILLE, NC 27858
PHONE: (252) 358-1001
CONTACT: PATRICK HARTMAN, P.L.S.
EMAIL: PHARTMAN@RIVERSANDASSOCIATES.COM

LANDSCAPE ARCHITECT
WILKIE+HORN & ASSOCIATES, INC.
421 FAYETTEVILLE STREET
RALEIGH, NC 27601
PHONE: (919) 836-2500
CONTACT: WATT GROSS, RLA
EMAIL: WATT.GROSS@WILKIE+HORN.COM

GEOTECHNICAL ENGINEER
FALCON ENGINEERING, INC.
1000 RIVERSIDE DRIVE
GREENVILLE, NC 27858
PHONE: (252) 358-1001
CONTACT: JEREMY R. HAMM, P.E.
EMAIL: JHAMM@FALCONENGINEERS.COM

CIVIL ENGINEER
WILKIE+HORN & ASSOCIATES, INC.
421 FAYETTEVILLE STREET
RALEIGH, NC 27601
PHONE: (919) 836-2500
CONTACT: JOHN KUZENSER, P.E.
EMAIL: JOHN.KUZENSER@WILKIE+HORN.COM

STRUCTURAL ENGINEER
WILKIE+HORN & ASSOCIATES, INC.
421 FAYETTEVILLE STREET
RALEIGH, NC 27601
PHONE: (919) 836-2500
CONTACT: MITCH MAGEE, P.E.
EMAIL: MITCH.MAGEE@WILKIE+HORN.COM

ARCHITECT
N. 8110 ST. LOUIS
RALEIGH, NC 27858
PHONE: (252) 358-1001
CONTACT: MATTHEW GREFFITH, AIA
EMAIL: MATTHEW@STLOUIS.COM

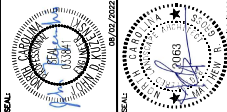
City of Greenville Site Plan Approval

☐ Approved	☐ Approved as Noted
Zoning	Engineering
Stormwater Floodplain	Inspection
Fire Rescue	RLC electric
GLUC wastewater	RLC gas
NCDOT	Vegetation
Traffic Services	Notes

*Site plan approval ONLY. Engineer/Architect/Surveyor shall be responsible for adequacy of construction in the plans. All plans shall meet all specifications, standards and applicable regulations.

NO.	REVISIONS	DATE	BY
1	ISSUED FOR BID	06/02/22	MSA

Kimley-Horn
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PHONE: 919-871-2000 FAX: 919-871-7700
WWW.KIMLEY-HORN.COM
#1-012



DESIGNED BY: MSA
SCALE: AS SHOWN
DATE: 06/02/2022
CHECKED BY: JOK
DRAWN BY: ASJA

KHA PROJECT
017024010
06/02/2022
COVER SHEET

WILDWOOD PARK -
TOWER AND TRAILS
BID PACKAGE A
CITY OF GREENVILLE
GREENVILLE
SHEET NUMBER
C0.0

GENERAL CONSTRUCTION NOTES

- [illegible]

GRADING NOTES

- [illegible]

ACCESSIBILITY NOTES

- [illegible]

RECORD DRAWING NOTES:

- [illegible]

ABBREVIATIONS

NOT ALL ABBREVIATIONS MAY BE USED FOR THIS PROJECT.

O-CLEAN OUT	DR-STRUCTURE IRON PIPE
I-DROP INLET	STR-STORM
1-YARD INLET	MD-MANHOLE
X-EXTING	SF-STORM DRAIN
IE-MATCH EXISTING	TO-TOPOF CONCRETE
IE-FLARED-SECTION	CI-CAST IRON PIPE
VC-LIMITS OF DISTURBANCE	TM-TOP OF WALL
VC-POLYVINYL CHLORIDE	BM-BOTTOM OF WALL
RE-REINFORCED CONCRETE PIPE	PN-POINTE D'INDICATEUR
TP-TYPICAL	

STORM DRAINAGE NOTES

1. ALL STORMWATER MATERIALS AND CONSTRUCTION SHALL COMPLY WITH CITY STANDARDS CONSTRUCTION DETAILS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPROPRIATE MEASUREMENTS FOR COMPLETE INSTALLATION OF THE STORMWATERS.
3. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, ORIENTATION, HORIZONTAL AND VERTICAL LOCATIONS OF ALL GROUND SURFACES, EXISTING UTILITIES, AND THE LOCATION OF ALL CONSTRUCTION OF ANY KIND TO BE EXCAVATED, EARTHWORK, AND SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS DISCOVERED.
4. THE CONTRACTOR SHALL VERIFY AND DOCUMENT ALL EXISTING UTILITIES INCLUDING THE DEPTH, SIZE, LOCATION, AND MATERIALS OF ALL UTILITIES.
5. GROUND LINE, TOUGH-GRADE, THICKNESS, AND GRADE ELEVATION OF PROPOSED INLET SHALL BE VERIFIED WITHIN 10' OF THE INLET, AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE INSTALLATION.
6. THE CONTRACTOR SHALL PROVIDE A 12" MINIMUM COVER OVER ALL EXISTING UTILITIES, AND SHALL PROVIDE A 24" MINIMUM COVER OVER ALL NEW UTILITIES. THE CONTRACTOR SHALL ADVISE THE CITY OF ANY UTILITIES LOCATED WITHIN THE PROJECT AREA.
7. ALL NEW STORMWATER CONSTRUCTION SHALL BE STRUCTURES AND UTILITIES SHALL ADHERE TO THE APPLICABLE STANDARD DETAILS AND SPECIFICATIONS. THE CONTRACTOR SHALL ADVISE THE CITY OF ANY UTILITIES LOCATED WITHIN THE PROJECT AREA.
8. ALL NEW STORMWATER CONSTRUCTION SHALL BE STRUCTURES AND UTILITIES SHALL ADHERE TO THE APPLICABLE STANDARD DETAILS AND SPECIFICATIONS. THE CONTRACTOR SHALL ADVISE THE CITY OF ANY UTILITIES LOCATED WITHIN THE PROJECT AREA.
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EROSION CONTROL NOTES

- [illegible]

VEGETATION NOTES

- EXISTING VEGETATION SHALL BE PROTECTED TO THE GREATEST EXTENT PRACTICABLE AND SHALL BE CREDITED TOWARDS THE REQUIREMENTS OF THE CITY OF GREENVILLE'S ZONING ORDINANCE.
- EXISTING VEGETATION STATUS OF VEGETATION SHALL BE PROTECTED AND HAVE BEEN IDENTIFIED.
- ALL INFRASTRUCTURE REQUIRING ADDITIONAL VEGETATION (I.E. PARKING LOTS, BUILDINGS, ETC.) SHALL BE CREDITED TOWARDS THE REQUIREMENTS OF THE CITY OF GREENVILLE'S ZONING ORDINANCE.
- ALL BUFFERS SHALL BE LEFT UNDISTURBED AND EXISTING VEGETATION SHALL COUNT TOWARDS ANY AND ALL REQUIREMENTS.

LIMITS OF DISTURBANCE NOTE:

CONTRACTOR SHALL ESTABLISH LIMITS OF DISTURBANCE AT A MINIMUM OF (FIFTY) 50'-0" INTERVALS. LIMITS OF ALIGNMENT STAKING SHALL BE VERIFIED BY ENGINEER AND/OR LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. LIMITS SHALL BE CLEARLY MARKED IN THE FIELD AND SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF CONSTRUCTION.

EROSION CONTROL NOTES

- [illegible]

CITY OF GREENVILLE GENERAL NOTES

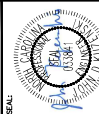
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[illegible]

KHA PROJECT	012654010	DATE	08/02/2022	SCALE AS SHOWN	DESIGNED BY	MRG	DRAWN BY	ASA	CHECKED BY	JDK
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GENERAL NOTES

WILDWOOD PARK - TOWER AND TRAILS BID PACKAGE A PREPARED FOR CITY OF GREENVILLE	SHEET NUMBER C0.1
NC	GREENVILLE

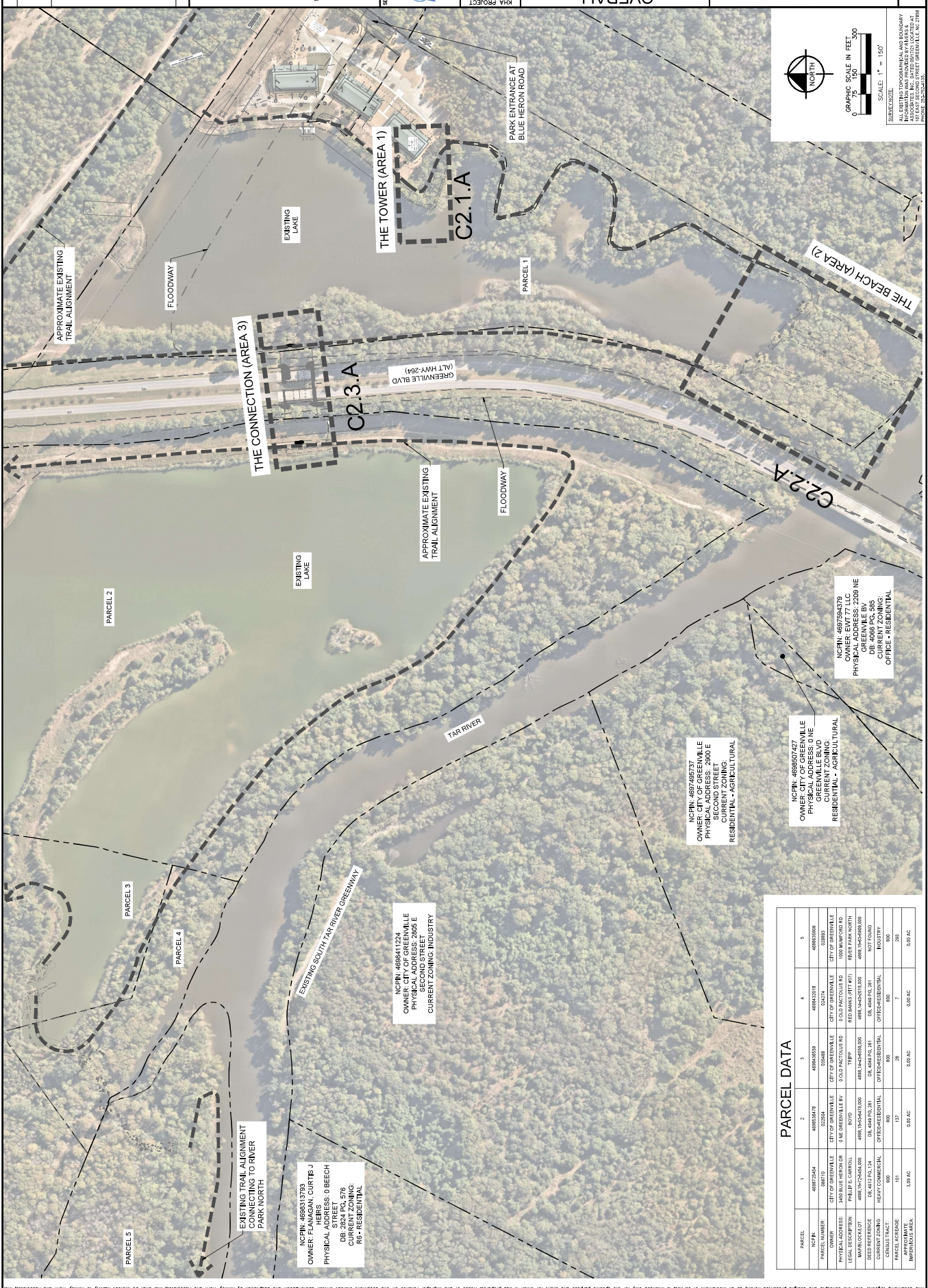
NO.	REVISIONS	DATE	BY
1	ISSUED FOR BID	06/02/22	ASA

Kimley-Horn
 #0102
 PHONE: 919-877-2000 FAX: 919-877-2050
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**OVERALL
 DEMOLITION AND
 EROSION CONTROL
 PLAN**

**WILDWOOD PARK -
 TOWER AND TRAILS
 BID PACKAGE A
 PREPARED FOR
 CITY OF GREENVILLE
 GREENVILLE
 NC**



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PARCEL DATA

PARCEL	1	2	3	4	5
NPIN	4885313753	4885313754	4885313755	4885313756	4885313757
OWNER	CITY OF GREENVILLE	CITY OF GREENVILLE	CITY OF GREENVILLE	CITY OF GREENVILLE	CITY OF GREENVILLE
PHYSICAL ADDRESS	3400 BLUE HERON DR	5 NE GREENVILLE BLVD	5 OLD FANTOUSIE RD	5 OLD FANTOUSIE RD	1000 MARSHALL RD
LEGAL DESCRIPTION	PHILIP P. CARROLL TRACT	5070	TRIPP	RED BANKS (PT 1 & 2)	WILDER PARK NORTH
APPROXIMATE AREA	1.00 AC	1.00 AC	1.00 AC	1.00 AC	1.00 AC
CURRENT ZONING	HEAVY COMMERCIAL	OFFICE/RESIDENTIAL	OFFICE/RESIDENTIAL	OFFICE/RESIDENTIAL	INDUSTRY
CENSUS TRACT	800	800	800	800	800
PARCEL ACRES	1.01	1.01	1.01	1.01	1.01
APPROXIMATE AREA	1.00 AC	1.00 AC	1.00 AC	1.00 AC	1.00 AC

NPIN: 4885313753
 OWNER: PHILIP P. CARROLL
 PHYSICAL ADDRESS: 3400 BLUE HERON DR
 LEGAL DESCRIPTION: PHILIP P. CARROLL TRACT
 APPROXIMATE AREA: 1.00 AC
 CURRENT ZONING: HEAVY COMMERCIAL
 CENSUS TRACT: 800
 PARCEL ACRES: 1.01
 APPROXIMATE AREA: 1.00 AC

NPIN: 4885313754
 OWNER: CITY OF GREENVILLE
 PHYSICAL ADDRESS: 5 NE GREENVILLE BLVD
 LEGAL DESCRIPTION: 5070
 APPROXIMATE AREA: 1.00 AC
 CURRENT ZONING: OFFICE/RESIDENTIAL
 CENSUS TRACT: 800
 PARCEL ACRES: 1.01
 APPROXIMATE AREA: 1.00 AC

NPIN: 4885313755
 OWNER: CITY OF GREENVILLE
 PHYSICAL ADDRESS: 5 OLD FANTOUSIE RD
 LEGAL DESCRIPTION: TRIPP
 APPROXIMATE AREA: 1.00 AC
 CURRENT ZONING: OFFICE/RESIDENTIAL
 CENSUS TRACT: 800
 PARCEL ACRES: 1.01
 APPROXIMATE AREA: 1.00 AC

NPIN: 4885313756
 OWNER: CITY OF GREENVILLE
 PHYSICAL ADDRESS: 5 OLD FANTOUSIE RD
 LEGAL DESCRIPTION: RED BANKS (PT 1 & 2)

NPIN: 4885313757
 OWNER: CITY OF GREENVILLE
 PHYSICAL ADDRESS: 1000 MARSHALL RD
 LEGAL DESCRIPTION: WILDER PARK NORTH
 APPROXIMATE AREA: 1.00 AC
 CURRENT ZONING: INDUSTRIAL
 CENSUS TRACT: 800
 PARCEL ACRES: 1.01
 APPROXIMATE AREA: 1.00 AC

NO.	REVISIONS	DATE	BY
1	ISSUED FOR BID	06/02/22	ASA

Kimley-Horn

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 WWW.KIMLEY-HORN.COM

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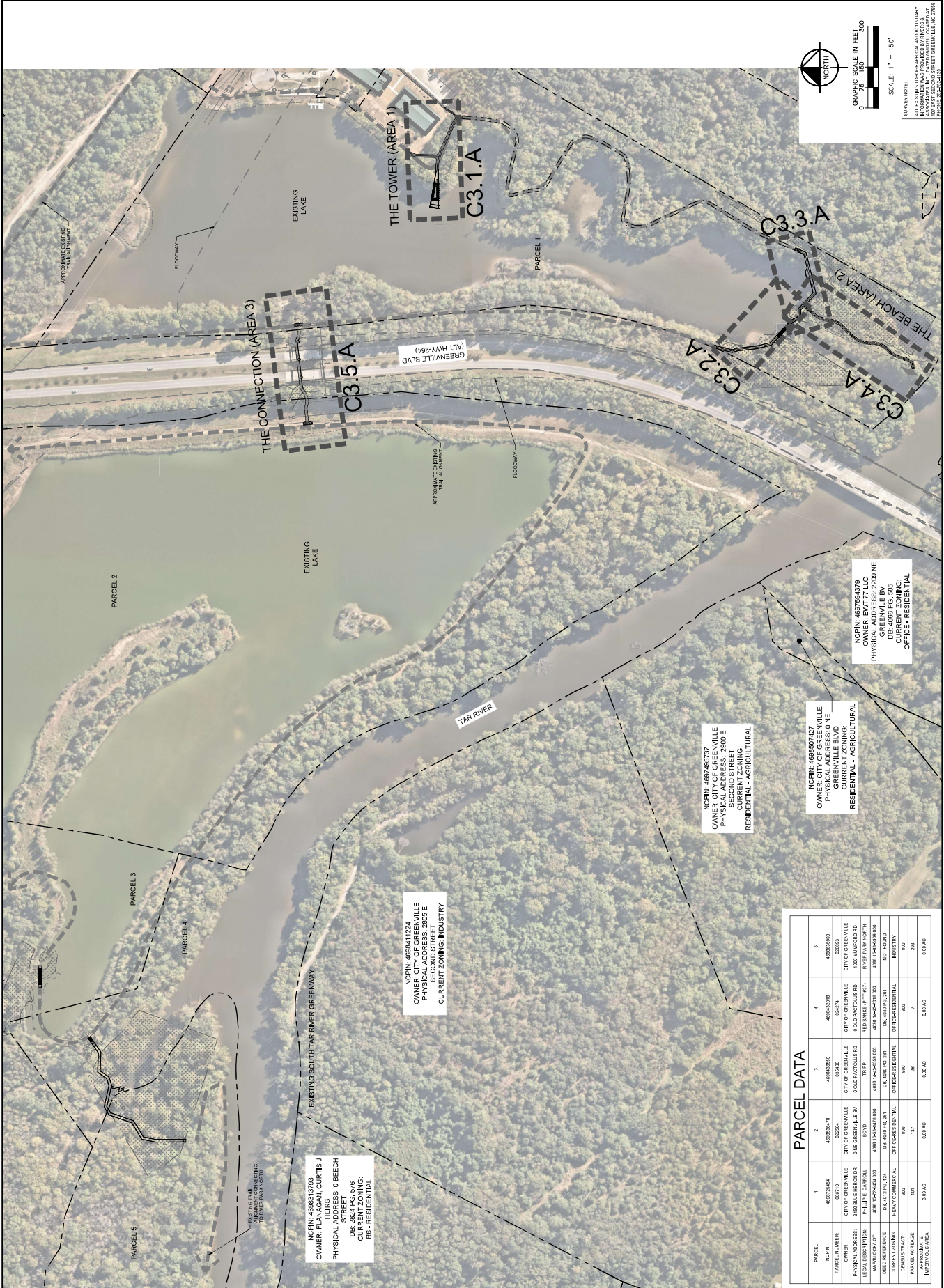
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#-0102

OVERALL SITE PLAN

WILDWOOD PARK -
 TOWER AND TRAILS
 BID PACKAGE A
 PREPARED FOR
 CITY OF GREENVILLE

SHEET NUMBER
C3.0.A



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SITE LEGEND

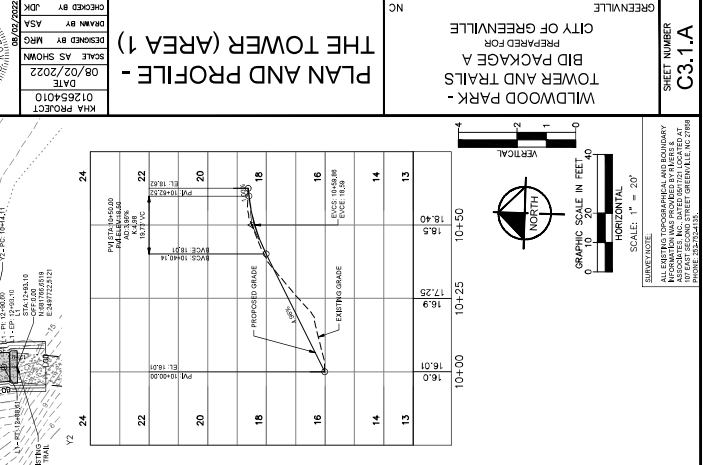
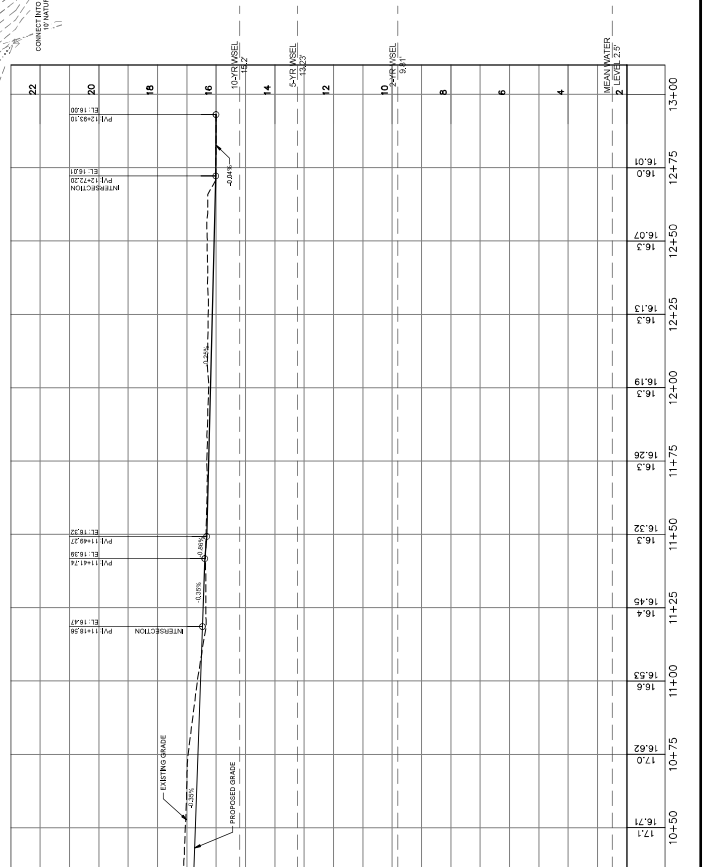
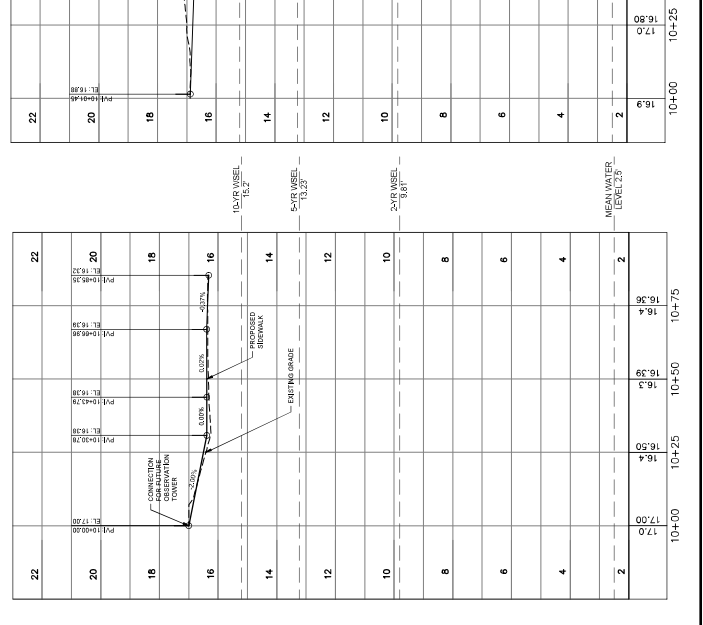
- EXISTING CONTOUR
- WATER EDGE LINE
- UNITS OF DISTURBANCE
- SLT FENCE (TYP)
- CONCRETE SPECIALTIES
- PRECAST CONCRETE
- FIELD DATA POINTS
- WETLAND
- PHARMACIATED BRIDGE
- BOARDWALK
- CONCRETE SPECIALTIES
- MEAN WATER ELEVATION
- TEMPORARY HEAVY DUTY GRAVEL

- CONSTRUCTION SEQUENCE**
1. REFER TO THE SHEET, ENGINEERING CONTROL NOTES AND GENERAL NOTES SHEET FOR PREPARATION OF A SEQUENCE OF CONSTRUCTION EVENTS.
 2. BEGIN MAINTENANCE OF PROPOSED BRIDGES AND TRAILS, MAINTAIN ENGINEERING CONTROL NOTES AND GENERAL NOTES SHEET FOR PREPARATION OF A SEQUENCE OF CONSTRUCTION EVENTS.
 3. CONSTRUCT BRIDGES, PHARMACIATED BRIDGES, AND PROPOSED BRIDGES AS SHOWN ON PLANS.
 4. MAINTAIN MAINTENANCE OF PROPOSED BRIDGES AND TRAILS, MAINTAIN ENGINEERING CONTROL NOTES AND GENERAL NOTES SHEET FOR PREPARATION OF A SEQUENCE OF CONSTRUCTION EVENTS.
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NOTES

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SCALE



Kimley-Horn

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WWW.KIMLEY-HORN.COM

#-0102

NO. 1
DATE 06/02/22
BY AS

ISSUED FOR BID
REVISED
DATE 06/02/22
BY AS

DESIGNED BY MFC
CHECKED BY JMK
DATE 06/02/2022

SCALE AS SHOWN

KHA PROJECT 0125341010

WILDWOOD PARK - OBSERVATION TOWER AND TRAILS - THE TOWER (AREA 1)

CITY OF GREENVILLE

SHEET NUMBER C3.1.A

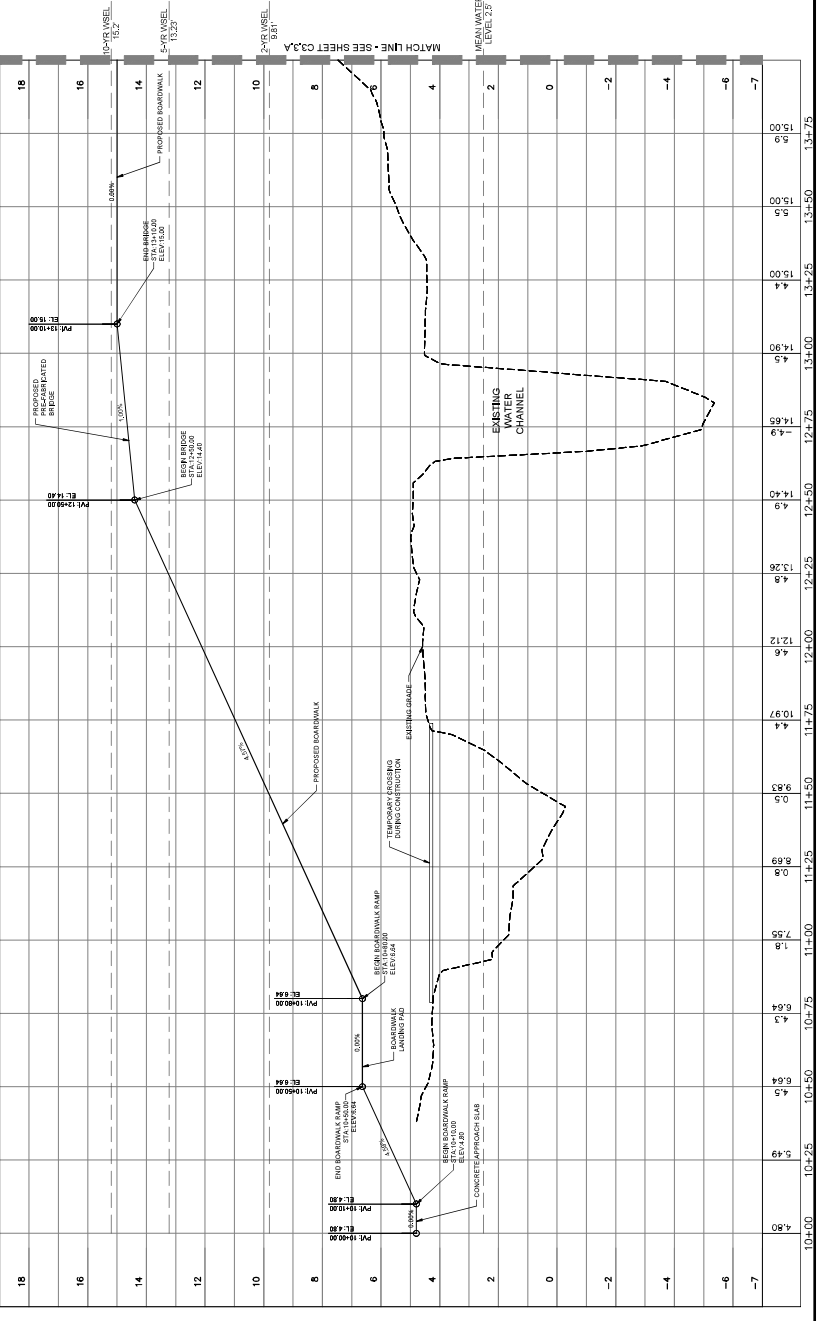
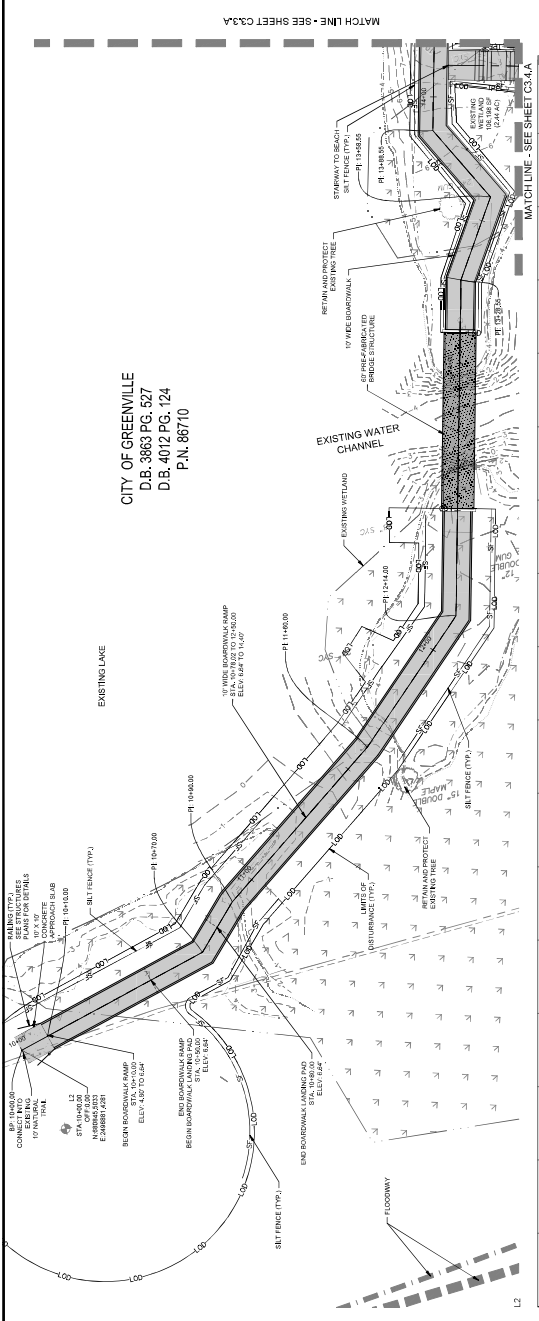


Know what's below.
Call before you dig.

SITE LEGEND	
	EXISTING CONTOUR
	WATER EDGE LINE
	LIMITS OF DISTURBANCE
	SET FENCE
	ADA ACCESSIBLE ROUTE
	FIELD WALKWAY FLAGGING
	WETLAND
	PRE-INSTALLED BRIDGE
	BOARDWALK
	CONCRETE BOARDWALK
	HEAVY DUTY GRAVEL PAVEMENT FOR 20' WIDE ACCESS DRIVE
	TEMPORARY HEAVY DUTY GRAVEL

PHASE 2 CONSTRUCTION SEQUENCE

1. BEGIN MAINTAINING OF PROPOSED BOARDWALKS AND TRAILS.
2. BEGIN MAINTAINING OF PROPOSED BOARDWALKS AND TRAILS.
3. BEGIN MAINTAINING OF PROPOSED BOARDWALKS AND TRAILS.
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16. BEGIN MAINTAINING OF PROPOSED BOARDWALKS AND TRAILS.
17. BEGIN MAINTAINING OF PROPOSED BOARDWALKS AND TRAILS.
18. BEGIN MAINTAINING OF PROPOSED BOARDWALKS AND TRAILS.



811

Know what's below.
Call before you dig.

Kimley-Horn

421 PAVETTAVILLE STREET, SUITE 600, FALMOUTH, ME 04901
PHONE: 207-877-2000 FAX: 207-877-2050
WWW.KIMLEY-HORN.COM

PROJECT NO. 01254010
DATE 08/02/2022
SCALE AS SHOWN
DESIGNED BY WPM
CHECKED BY JDM
BRN BY JDM

PLAN AND PROFILE - THE BEACH (AREA 2)

WILDWOOD PARK - TOWER AND TRAILS - BID PACKAGE A
CITY OF GREENVILLE
GREENVILLE

C3.2.A

SHEET NUMBER

GRAPHIC SCALE IN FEET
0 10 20 30
VERTICAL
HORIZONTAL
SCALE: 1" = 20'

DATE 08/02/22
BY ASA



Know what's below.
Call before you dig.

SITE LEGEND

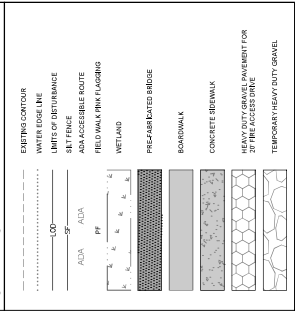
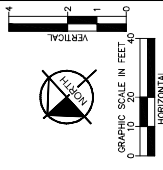
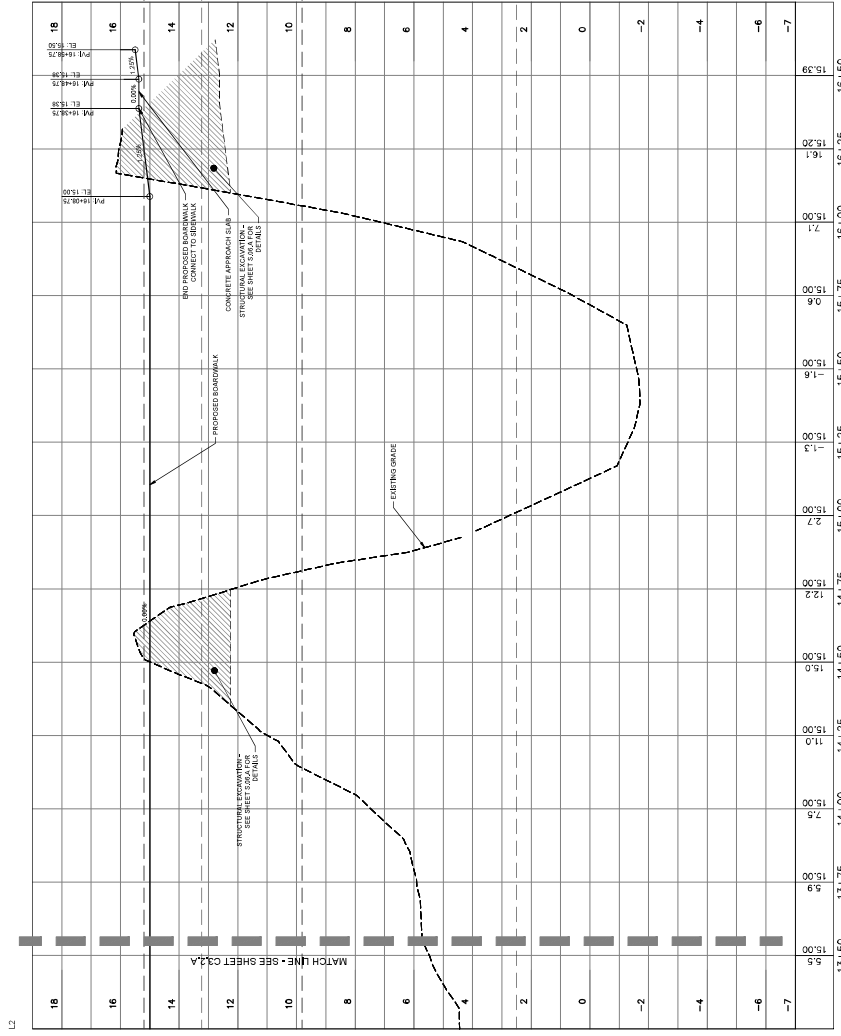
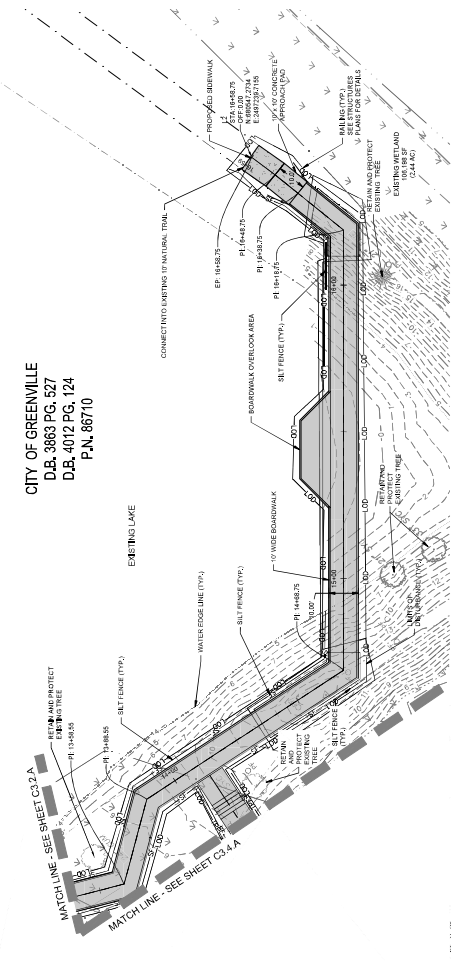


TABLE 1. CONSTRUCTION SEQUENCE

1. THE FOLLOWING PART 2 CONSTRUCTION SEQUENCE IS FURNISHED AS A GUIDE ONLY. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
2. BEGIN MAJOR GRADING OF PROPOSED DRIVEWAYS AND TRAILS.
3. MAJOR GRADING SHALL BE COMPLETED PRIOR TO THE START OF CONSTRUCTION OF THE DRIVEWAYS AND TRAILS.
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CITY OF GREENVILLE
D.B. 3863 PG. 527
D.B. 4012 PG. 124
P.N. 86710



GRAPHIC SCALE IN FEET
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'

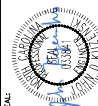


SITE LEGEND

EXISTING CONTOUR	EXISTING WATER CHANNEL
WATER COURSE LINE	RETAIN AND PROTECT EXISTING TREE
WATER OF SPILLWAY	12' CONCRETE TYPICAL SIDEWALK
WATER OF SPILLWAY	SECTION 4' DEPTH, REFER TO DETAIL
ADVISABLE ROUTE	12' CONCRETE TYPICAL SIDEWALK
FIELD WALK RINK FLAGGING	SECTION 4' DEPTH, REFER TO DETAIL
WETLAND	12' CONCRETE TYPICAL SIDEWALK
PRECAST BAYED BRIDGE	SECTION 4' DEPTH, REFER TO DETAIL
BORROWPIT	SECTION 4' DEPTH, REFER TO DETAIL
CONCRETE SIDEWALK	SECTION 4' DEPTH, REFER TO DETAIL
HEAVY DUTY GRAVE PAVEMENT FOR 20' FREE ACCESS DRIVE	SECTION 4' DEPTH, REFER TO DETAIL
TEMPORARY HEAVY DUTY GRAVEL	SECTION 4' DEPTH, REFER TO DETAIL

1	1	NO.	1	ISSUED FOR BID	06/02/22	DATE	BY
2	2	REVISIONS	2	ISSUED FOR BID	06/02/22	DATE	BY
3	3	REVISIONS	3	ISSUED FOR BID	06/02/22	DATE	BY
4	4	REVISIONS	4	ISSUED FOR BID	06/02/22	DATE	BY
5	5	REVISIONS	5	ISSUED FOR BID	06/02/22	DATE	BY
6	6	REVISIONS	6	ISSUED FOR BID	06/02/22	DATE	BY
7	7	REVISIONS	7	ISSUED FOR BID	06/02/22	DATE	BY
8	8	REVISIONS	8	ISSUED FOR BID	06/02/22	DATE	BY
9	9	REVISIONS	9	ISSUED FOR BID	06/02/22	DATE	BY
10	10	REVISIONS	10	ISSUED FOR BID	06/02/22	DATE	BY

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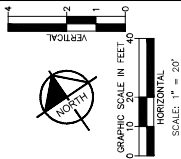


PROJECT NO.	012554010
DATE	08/02/2022
DESIGNED BY	MSA
CHECKED BY	MSA
SCALE	AS SHOWN
PROJECT	KH1A PROJECT

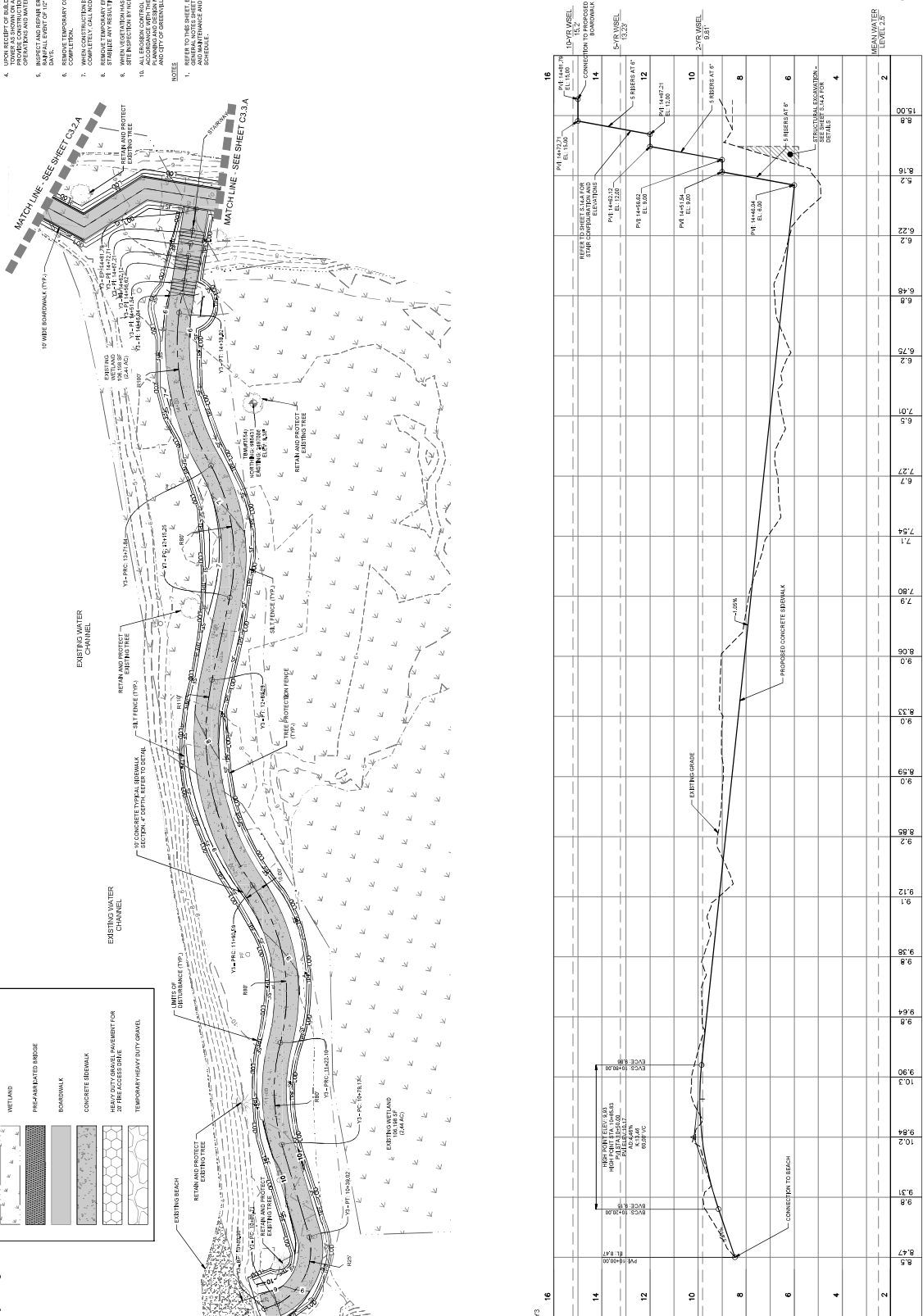
PLAN AND PROFILE - THE BEACH (AREA 2)

WILDWOOD PARK - BID PACKAGE A
CITY OF GREENVILLE
GREENVILLE

SHEET NUMBER
C3.4.A



GRAPHIC SCALE IN FEET
0 10 20
VERTICAL
SCALE: 1" = 20'

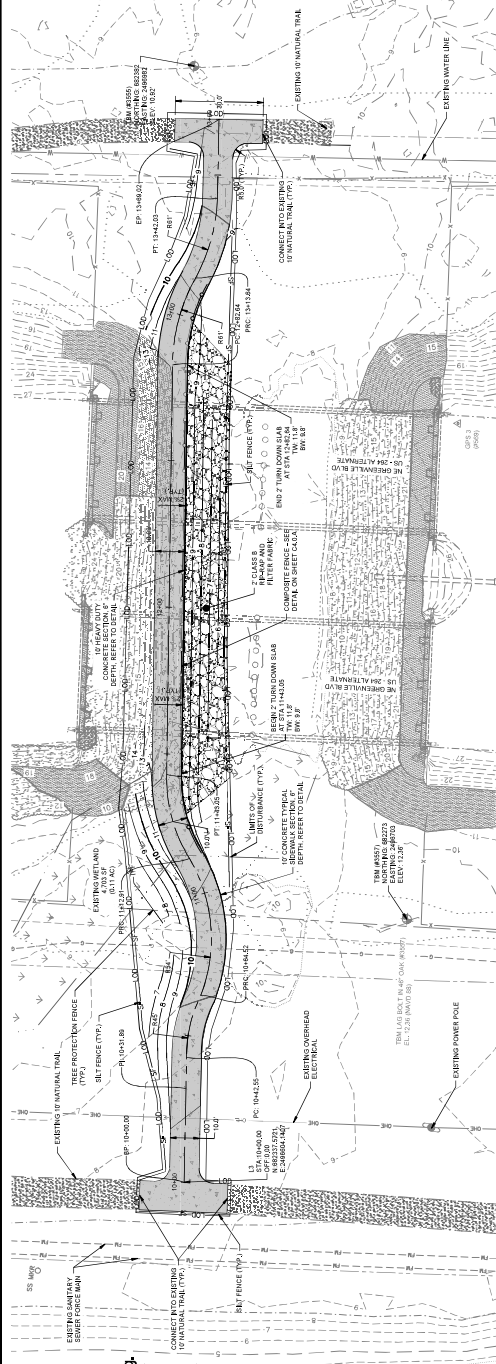


THE FOLLOWING PHASE 2 CONSTRUCTION SEQUENCE IS FURNISHED FOR INFORMATION ONLY. THE SEQUENCE IS NOT A GUARANTEE OF CONSTRUCTION EVENTS.

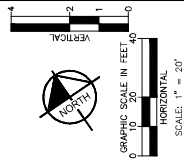
1. BEGIN GRADING OF PROPOSED SIDEWALKS AND TRAILS.
2. CONSTRUCT SIDEWALKS, PRECASTED BRIDGES, AND PROPOSED SIDEWALKS AS SHOWN ON PLANS.
3. INSTALL AND MAINTAIN EXISTING AND NEW UTILITIES AND EROSION CONTROL MEASURES. MAINTAIN ACCESS TO EXISTING SIDEWALKS AND TRAILS. MAINTAIN ACCESS TO EXISTING SIDEWALKS AND TRAILS. MAINTAIN ACCESS TO EXISTING SIDEWALKS AND TRAILS.
4. UPON RECEIPT OF BUILDING PERMIT, CONSTRUCT OBSERVATION TOWER AND TRAILS. MAINTAIN ACCESS TO EXISTING SIDEWALKS AND TRAILS. MAINTAIN ACCESS TO EXISTING SIDEWALKS AND TRAILS.
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7. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED, COMPLETELY CALL NOTED INSPECTOR FOR INSPECTION.
8. MAINTAIN ACCESS TO EXISTING SIDEWALKS AND TRAILS. MAINTAIN ACCESS TO EXISTING SIDEWALKS AND TRAILS. MAINTAIN ACCESS TO EXISTING SIDEWALKS AND TRAILS.
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NOTE: 1. REFER TO THE SHEET, BORDOIN CONTROL SHEET, SHEET AND MAINTENANCE AND SEEDING PREPARATION AND SEEDING SCHEDULE.

ALL EXISTING TOPOGRAPHICAL AND BOUNDARY INFORMATION WAS PROVIDED BY THE CITY OF GREENVILLE. THE CITY OF GREENVILLE IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THE INFORMATION PROVIDED.



Station	Profile	Notes
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NOTE: ALL EXISTING TOPOGRAPHICAL AND BOUNDARY INFORMATION WAS PROVIDED BY RIVERS & ASSOCIATES, INC., DATED 05/17/21 LOCATED AT 107 EAST SECOND STREET GREENVILLE, NC 27608
DATE: 2/2/2024 11:35.

WILDWOOD PARK - TOWER AND TRAILS BID PACKAGE A PREPARED FOR CITY OF GREENVILLE	GREENVILLE NC
--	------------------

PLAN AND PROFILE -
THE CONNECTION
(AREA 3)

REAL:

08/02/2022

DATE
017654010
08/02/2022

SCALE AS SHOWN

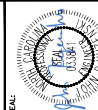
DESIGNED BY MFG

DRAWN BY ASA

CHECKED BY JDC

08/02/2022

NORTH CAROLINA DEPARTMENT OF REVENUE
TAXPAYER IDENTIFICATION NUMBER
033541



Kimley»Horn
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PHONE: 919-677-2000 FAX: 919-677-2050
WWW.KIMLEY-HORN.COM
#1-0102

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GENERAL NOTES

SPECIFICATION

- CURRENT EDITIONS OF THE AASHTO LRFD GUIDE SPECIFICATIONS FOR PEDESTRIAN BRIDGES, NORTH CAROLINA DEPARTMENT OF TRANSPORTATION BICYCLE FACILITIES PLANNING AND DESIGN GUIDELINES, NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS SPECIFICATIONS, NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, FOR ROADS AND STRUCTURES, AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, AND THE INCORPORATED PROJECT SPECIAL PROVISIONS.
- FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.
- FOR PREFABRICATED PEDESTRIAN BRIDGE, SEE SPECIAL PROVISIONS.
- FOR TIMBER BOARDWALK, SEE SPECIAL PROVISIONS.
- FOR STRUCTURAL STANDARD NOTES REFER TO SHEET S.16-A.

MATERIAL AND WORKMANSHIP

- PROVIDE ALL MATERIAL AND WORKMANSHIP IN ACCORDANCE WITH THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS SPECIFICATIONS, ROADS AND STRUCTURES, 2018 EDITION, UNLESS OTHERWISE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS.

DESIGN DATA

- UNIFORM PEDESTRIAN LIVE LOAD.....90 PSF
 - VEHICULAR LIVE LOAD.....AASHTO H-5
 - WIND LOAD.....PER AASHTO
 - WATER LOAD.....PER AASHTO
- STREAM VELOCITIES:
- "THE BEACH" STRUCTURES: 4.00 FEET/SEC
- SEISMIC LOAD.....PER AASHTO
 - TEMPERATURE LOAD.....PER AASHTO

WATER ELEVATIONS

- THE WATER ELEVATIONS SHOWN IN THE PLANS ARE FOR INFORMATION ONLY AND ON WEATHER CONDITIONS AND SEASONAL FLUCTUATIONS.
- THE GROUND WATER ELEVATIONS, AS DETERMINED DURING GEOTECHNICAL BORINGS, ARE AS FOLLOWS:
 - "THE BEACH" TIMBER BOARDWALK
 - BW-01: 5.3 FEET
 - BW-02: 5.3 FEET
 - BW-03: 5.8 FEET
 - BW-04: 5.8 FEET
 - "THE BEACH" PREFABRICATED PEDESTRIAN BRIDGE
 - EB-01: 5.9 FEET
- ADDITIONAL PAYMENT FOR DEWATERING WILL NOT BE ALLOWED. CONTRACTOR SHALL INCLUDE COST IN INCIDENTAL ITEMS.

CAST-IN-PLACE CONCRETE

- SUBSTRUCTURE CONCRETE: TO BE CLASS "A" (CAST-IN-PLACE) $F_c = 3000$ PSI EXCEPT AS NOTED OTHERWISE.
- BRIDGE DECKS: CLASS "AA" (CAST-IN-PLACE) $F_c = 4000$ PSI FOR BRIDGE DECKS SHALL BE IN ACCORDANCE WITH SECTION 1000 OF THE STANDARD SPECIFICATIONS.
- CONCRETE WORK SHALL FOLLOW THE PROVISIONS OF SECTION 1000 OF THE STANDARD SPECIFICATIONS.
- REINFORCING STEEL: SHALL BE ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE. SEE SECTION 1070 OF THE STANDARD SPECIFICATIONS.
- CHAMFER ALL EXPOSED EDGES $\frac{1}{4}"$ UNLESS OTHERWISE NOTED.

STRUCTURAL TIMBER AND LUMBER

- STRUCTURAL FRAMING, DECKING, NAILERS, AND PEDESTRIAN RAIL COMPONENTS SHALL BE PRESSURE TREATED SOUTHERN PINE SPECIES (S4S) WITH A MOISTURE CONTENT OF 19% OR LESS, MEETING THE REQUIREMENTS OF SECTION 1082 OF THE STANDARD SPECIFICATIONS, UNLESS NOTED OTHERWISE.
- ALL TIMBER PILES SHALL BE SOUTHERN PINE CONFORMING TO ASTM D25, WHERE PILES ARE CUT OFF AT TOP OF PILE CAP, MINIMUM BUTT DIAMETER SHALL BE 8".
- TIMBER AND LUMBER SHALL BE TREATED WITH WATERBORNE PRESERVATIVES (CCA OR ACQ) IN ACCORDANCE WITH AWWA STANDARD U1, COMMODITY SPECIFICATIONS, AND THE REQUIREMENTS OF THE FOLLOWING USE CATEGORIES:
 - PILES U4C0
 - BACKWALLS, WINDWALLS, CAP BEAMS AND STRINGERS, UC4B
 - DECKING, PEDESTRIAN RAILING COMPONENTS, ALL OTHER LUMBER UC3B
- EACH DECKING MEMBER SHALL BE INSTALLED BARK SIDE UP TO PREVENT CUPPING.
- MAXIMUM SPACING BETWEEN DECKING MEMBERS SHALL BE $\frac{1}{4}"$.
- ALL VERTICAL MEMBERS SHALL BE PLUMB.
- ALL SAW CUTS, BOLT HOLES, AND OTHER HOLES SHALL BE TREATED WITH APPROPRIATE PRESERVATION SOLUTION PRIOR TO INSTALLING BOLTS.
- UNLESS NOTED OTHERWISE, MECHANICAL WOOD CONNECTIONS SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS, WITH ALL FASTENER HOLES FULLY POPULATED.
- ALL CONNECTORS SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
- ALL FASTENERS, CONNECTORS AND BOLTS SHALL BE HOT-DIP GALVANIZED AND CONFORM TO ASTM F3125 GRADE A325, WITH NUTS CONFORMING TO ASTM A563 AND WASHERS CONFORMING TO ASTM F436, UNLESS NOTED OTHERWISE.
- ALL BOLTED CONNECTIONS SHALL INCLUDE OVERSIZED OCEE WASHERS INSTALLED BETWEEN THE WOOD AND THE BOLT HEAD AND BETWEEN THE WOOD AND THE NUT.
- ATTACH BLOCKING TO JOIST USING TWO (2) $12 \times 5 \times 5'$ HOT-DIP GALVANIZED WOOD SCREWS, CONFORMING TO ASTM A153, AT EACH SIDE OF BLOCKING. PREDRILL AS REQUIRED TO AVOID SPLITTING.
- ATTACH FLOOR DECKING TO EACH JOIST USING TWO (2) $12 \times 5 \times 5'$ HOT-DIP GALVANIZED WOOD SCREWS, CONFORMING TO ASTM A153, AT EACH JOIST. PREDRILL AS REQUIRED TO AVOID SPLITTING.
- ATTACH SIDE RAIL TO POST USING TWO (2), AND TOP RAIL TO POST USING FOUR (4), $1\frac{1}{2} \times 6 \times 3\frac{1}{2}$ HOT-DIP GALVANIZED WOOD SCREWS, CONFORMING TO ASTM A153, AT EACH POST. PREDRILL AS REQUIRED TO AVOID SPLITTING.
- ALL LONGITUDINAL RAILING MEMBERS SHALL SPAN A MINIMUM OF TWO RAIL POST SPACINGS.

PREFABRICATED STEEL PEDESTRIAN BRIDGE SUPERSTRUCTURE

- PREFABRICATED STEEL PEDESTRIAN BRIDGE SUPERSTRUCTURE, ANCHOR BOLTS, AND BEARING PADS SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER BASED UPON THE MANUFACTURER'S DESIGN AND APPROVAL. THE CONTRACTOR SHALL SUBMIT THE SUPERSTRUCTURE PLANS AND CALCULATIONS TO THE STATE OF NORTH CAROLINA, PLANS AND CALCULATIONS SHALL BE SEIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NORTH CAROLINA. PLANS AND CALCULATIONS SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR REVIEW AND APPROVAL. THE PREFABRICATED STEEL PEDESTRIAN BRIDGE SUPERSTRUCTURE SHALL BE DESIGNED TO WITHSTAND ALL REACTIONS FOR ABUTMENTS. THE PREFABRICATED STEEL PEDESTRIAN BRIDGE SUPERSTRUCTURE FABRICATION SHALL NOT BEGIN UNTIL ALL APPROVALS HAVE BEEN RECEIVED.
- THE BRIDGE CLEAR PATH WIDTH SHALL BE A STEEL PLATT TRUITS.
- THE BRIDGE CLEAR PATH WIDTH SHALL BE 10'-0" AND SHALL BE MEASURED BETWEEN THE INSIDE FACES OF SAFETY AND RUB RAILING ELEMENTS.
- SAFETY RAILING SYSTEM SHALL BE A MINIMUM OF 4'-6" ABOVE THE TOP OF BRIDGE DECK.
- ALL STRUCTURAL STEEL FOR PREFABRICATED STEEL PEDESTRIAN BRIDGE SHALL BE WEATHERING STEEL AND SHALL CONFORM TO NCOTD STANDARD SPECIFICATIONS AND PREFABRICATED STEEL PEDESTRIAN BRIDGE SPECIAL PROVISION.
 - ALL STRUCTURAL STEEL TUBE SHAPES SHALL CONFORM TO ASTM A471, A588.
 - ALL STRUCTURAL STEEL PLATES SHALL CONFORM TO ASTM A588.
 - ALL OTHER STEEL PLATES, SHAPES AND BARS SHALL CONFORM TO ASTM A498.
 - ALL ANCHORS BOLTS ARE GALVANIZED AND SHALL CONFORM TO ASTM A498.
 - ALL PILES SHALL BE TREATED WITH PRESERVATIVE AND SHALL CONFORM TO ASTM F3125 GRADE A325. WASHERS & NUTS SHALL MATCH FINISH OF BOLT.
- ALL STRUCTURAL STEEL WELDS SHALL CONFORM TO THE LATEST PROVISIONS OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. ALL WELDERS SHALL BE QUALIFIED IN ACCORDANCE WITH THE ABOVE AWS CODE.
- SPICES, IF REQUIRED FOR THE PREFABRICATED STEEL PEDESTRIAN BRIDGE SUPERSTRUCTURE SHALL BE CLEARLY NOTED ON THE SHOP DRAWINGS AND NECESSARY CALCULATIONS PROVIDED.
- NEEP HOLES SHALL BE PROVIDED FOR DRAINAGE OF BRIDGE TUBULAR MEMBERS, AND SHALL BE CLEARLY NOTED ON THE SHOP DRAWINGS.
- THE BRIDGE DECK SHALL BE CAST-IN-PLACE CONCRETE.

PEDESTRIAN BRIDGE SUBSTRUCTURE

- THE SUBSTRUCTURE DESIGN WAS BASED UPON THE INFORMATION AVAILABLE FROM THE PREFABRICATED PEDESTRIAN BRIDGE SUPERSTRUCTURE. THE DESIGN OF THE SUBSTRUCTURE SHALL BE BASED UPON THE INFORMATION PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS WITHOUT APPROVAL FROM THE ENGINEER. ALL REACTIONS ARE ALLOWABLE LOADS FROM THE PREFABRICATED TRUITS. VERTICAL REACTIONS SHOWN ARE PER BASE REACTION. LATERAL AND LONGITUDINAL REACTIONS SHOWN ARE PER BEARING CAP. REACTIONS SHOWN ARE PER BRIDGE.

60' BRIDGE:

- VERTICAL LOADS:
 - DEAD LOAD.....11,000 LBS
 - UNIFORM LIVE LOAD.....13,000 LBS
 - WIND UPLIFT.....5,025 LBS
 - BUOYANCY.....12,640 LBS
- LATERAL LOADS:
 - WIND.....3,400 LBS
 - STREAM FLOW.....7,910 LBS
- LONGITUDINAL LOADS:
 - TEMPERATURE.....3,200 LBS

- CONSTRUCTION OF THE PEDESTRIAN BRIDGE END BENTS AND BERMS SHALL NOT BEGIN UNTIL ALL APPROVALS FOR PREFABRICATED PEDESTRIAN BRIDGE SUPERSTRUCTURE HAVE BEEN RECEIVED.
- PEDESTRIAN BRIDGE END BENT AND BENT DETAILS SHALL BE COORDINATED WITH THE PREFABRICATED PEDESTRIAN BRIDGE PLANS. TO BE PROVIDED BY THE PREFABRICATED PEDESTRIAN BRIDGE MANUFACTURER. NOTIFY ENGINEER IMMEDIATELY IF ANY CONFLICTS ARE IDENTIFIED. CONSTRUCTION OF THE END BENTS AND BERMS SHALL BE IN ACCORDANCE WITH THE SHOP DRAWINGS ARE APPROVED AND ALL CONFLICTS RESOLVED.
- REINFORCEMENT IN CAP MAY BE SHIFTED TO CLEAR ANCHOR BOLTS.
- THE TOP SURFACE OF END BENTS AND BENTS CAPS, EXCEPT AT BRIDGE SEATS, SHALL BE SLOPED TRANSVERSELY AT A MINIMUM RATE OF 2%.
- END BENTS BACKWALL SHALL BE PLACED AFTER BRIDGE HAS BEEN ERECTED.
- TOP OF BACKWALL SHALL FOLLOW BRIDGE DECK GRADE.
- THE END BENTS AND BERMS SHALL BE CURED IN ACCORDANCE WITH NCOTD STANDARD SPECIFICATIONS.

APPROACH RAILINGS

- APPROACH RAILINGS SHALL BE PROVIDED AT EACH CORNER OF THE BRIDGE AS SHOWN ON THE PLANS, AND PER PREFABRICATED STEEL PEDESTRIAN BRIDGE SPECIAL PROVISION.

CONSTRUCTION

- SPECIAL NOTE TO CONTRACTOR: CONTRACTOR SHALL USE EXTREME CARE AND TAKE ANY MEASURES NECESSARY TO ENSURE THAT NO DEBRIS IS DROPPED INTO THE WATERWAY. ANY DEBRIS WHICH IS ALLOWED TO DROP ON THE BANKS BELOW THE BRIDGE SHALL NOT BE REMOVED BY THE CONTRACTOR. COST OF REMOVAL AND DISPOSAL OF DEBRIS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS.

PREFABRICATED FRP PEDESTRIAN BRIDGE SUPERSTRUCTURE

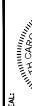
- PREFABRICATED FRP PEDESTRIAN BRIDGE SUPERSTRUCTURE, ANCHOR BOLTS, AND BEARING PADS SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER BASED UPON THE MANUFACTURER'S DESIGN AND APPROVAL. THE CONTRACTOR SHALL SUBMIT THE SUPERSTRUCTURE PLANS AND CALCULATIONS TO THE STATE OF NORTH CAROLINA, PLANS AND CALCULATIONS SHALL BE SEIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NORTH CAROLINA. PLANS AND CALCULATIONS SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR REVIEW AND APPROVAL. THE PREFABRICATED FRP PEDESTRIAN BRIDGE SUPERSTRUCTURE SHALL BE DESIGNED TO WITHSTAND ALL REACTIONS FOR ABUTMENTS. THE PREFABRICATED FRP PEDESTRIAN BRIDGE SUPERSTRUCTURE FABRICATION SHALL NOT BEGIN UNTIL ALL APPROVALS HAVE BEEN RECEIVED.
 - THE BRIDGE CLEAR PATH WIDTH SHALL BE 10'-0" AND SHALL BE MEASURED BETWEEN THE INSIDE FACES OF SAFETY AND RUB RAILING ELEMENTS.
 - SAFETY RAILING SYSTEM SHALL BE A MINIMUM OF 4'-6" ABOVE THE TOP OF BRIDGE DECK.
 - SEE FRP COMPOSITE BRIDGE AND BOARDWALK ALTERNATIVE SPECIAL PROVISION.
- ### FRP BOARDWALK ALTERNATIVE
- FRP BOARDWALK ALTERNATIVE SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER BASED UPON THE MANUFACTURER'S DESIGN AND APPROVAL. THE CONTRACTOR SHALL SUBMIT THE BOARDWALK PLANS AND CALCULATIONS TO THE STATE OF NORTH CAROLINA, PLANS AND CALCULATIONS SHALL BE SEIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NORTH CAROLINA. PLANS AND CALCULATIONS SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR REVIEW AND APPROVAL. THE FRP BOARDWALK ALTERNATIVE FABRICATION SHALL NOT BEGIN UNTIL ALL APPROVALS HAVE BEEN RECEIVED.
 - FRP BOARDWALK ALTERNATIVE SHALL MAINTAIN GEOMETRY CONSTRAINTS SHOWN IN THE PLANS FOR THE TIMBER BOARDWALK.
 - TIMBER DECKING AND RAILING SHALL BE MAINTAINED AS DETAILED IN THE PLANS FOR THE TIMBER BOARDWALK.
 - SEE FRP COMPOSITE BRIDGE AND BOARDWALK ALTERNATIVE SPECIAL PROVISION.

SHEET NUMBER
S.01A

WILWOOD PARK -
TOWER AND TRAILS
PACKAGE A
PREPARED FOR
CITY OF GREENVILLE

BRIDGE GENERAL
NOTES

KHA PROJECT	012124010
DATE	08/02/2022
DESIGNED BY	BMA
CHECKED BY	JM
APPROVED BY	KHA



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NO.	1
ISSUED FOR BID	
REVISIONS	
DATE	08/02/22
BY	MSA



Know what's below.
Call before you dig.

FOUNDATIONS

1. FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
2. PILES FOR FOUNDATION TYPES NO. 1, 2, 4 AND 6 ARE DESIGNED FOR A FACTORED RESISTANCE OF 5 TONS PER PILE.
3. DRIVE PILES FOR FOUNDATION TYPES NO. 1, 2, 4 AND 6 TO A REQUIRED DRIVING RESISTANCE OF 6.5 TONS PER PILE.
4. PILES FOR FOUNDATION TYPES NO. 3 AND 5 ARE DESIGNED FOR A FACTORED RESISTANCE OF 6.5 TONS PER PILE.
5. DRIVE PILES FOR FOUNDATION TYPES NO. 3 AND 5 TO A REQUIRED DRIVING RESISTANCE OF 11 TONS PER PILE.
6. PILES FOR FOUNDATION TYPE NO. 7 ARE DESIGNED FOR A FACTORED RESISTANCE OF 30 TONS PER PILE.
7. DRIVE PILES FOR FOUNDATION TYPE NO. 7 TO A REQUIRED DRIVING RESISTANCE OF 30 TONS PER PILE.
8. STEEL PILE POINTS ARE REQUIRED FOR TIMBER PILES FOR FOUNDATION TYPES 2 THROUGH 6.
9. STEEL H-PILE POINTS ARE REQUIRED FOR FOUNDATION TYPE NO. 7 FOR STEEL PILE POINTS, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
10. INSTALL PILES FOR FOUNDATION TYPES NO. 2, 4, AND 6 TO A TIP ELEVATION NO HIGHER THAN 10 FEET BELOW EXISTING GROUND SURFACE.
11. INSTALL PILES FOR FOUNDATION TYPES NO. 3 AND 5 TO A TIP ELEVATION NO HIGHER THAN 12 FEET BELOW EXISTING GROUND SURFACE.
12. INSTALL PILES FOR FOUNDATION TYPE NO. 7 TO A TIP ELEVATION NO HIGHER THAN 14 FEET BELOW EXISTING GROUND SURFACE.
13. IF NECESSARY, PEDRILL PILE LOCATIONS FOR FOUNDATION TYPES 2 THROUGH 7 TO AN ELEVATION NO LOWER THAN THE "TIP NO HIGHER THAN" ELEVATIONS IN NOTES 9 THROUGH 11 WITH EQUIPMENT THAT WILL RESULT IN A MAXIMUM PEDRILLING DEPTH OF 12 INCHES. IF NECESSARY, PEDRILLING FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

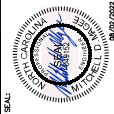
TOTAL BILL OF MATERIALS

	TIMBER BOARDWALK ₁	PREFABRICATED STEEL PEDESTRIAN BRIDGE ₂	RIP RAP CLASS II (2-4" THICK)	GEOTEXTILE FOR DRAINAGE	BID ALTERNATIVE #1 - FRP PREFABRICATED PEDESTRIAN BRIDGE ₃	BID ALTERNATIVE #2 - FRP BOARDWALK ₄
	LUMP SUM	LUMP SUM	TONS	S.Y.	LUMP SUM	LUMP SUM
STRUCTURE #1 (-L2- STA. 10+40.00 - STA. 12+51.00)	LUMP SUM		20	15		LUMP SUM
STRUCTURE #1 (-L2- STA. 15+51.00 - STA. 13+09.00)		LUMP SUM			LUMP SUM	
STRUCTURE #1 (-L2- STA. 15+09.00 - STA. 15+23.91)	LUMP SUM					LUMP SUM
STRUCTURE #1 (-L2- STA. 15+16.91 - STA. 15+63.91)	LUMP SUM					LUMP SUM
STRUCTURE #1 (-L2- STA. 14+63.91 - STA. 10+48.75)	LUMP SUM		20	15		LUMP SUM
STRUCTURE #1 (STAIRS @ -Y3-)	LUMP SUM					LUMP SUM

1. LUMP SUM PAY ITEMS FOR TIMBER BOARDWALK SHALL INCLUDE LABOR, MATERIALS, EQUIPMENT, DELIVERY AND OTHER INCIDENTALS AS NECESSARY FOR THE TIMBER BOARDWALK, APPROACH RAILING, PEDESTRIAN RAILINGS, PILE PEDRILLING, STEEL PILE POINTS, PILE DRIVE SETUP, PILE TESTING (WHERE REQUIRED) DEWATERING, ETC.
2. LUMP SUM PAYMENT FOR PREFABRICATED STEEL PEDESTRIAN BRIDGE SHALL INCLUDE ALL ENGINEERING, LABOR, MATERIALS, EQUIPMENT, DELIVERY, AND OTHER INCIDENTALS NECESSARY FOR THE PREFABRICATED STEEL PRATT TRUSS PEDESTRIAN BRIDGE, APPROACH RAILING, PEDESTRIAN RAILING, STEEL PILE POINTS, PILE DRIVE SETUP, PILE TESTING (WHERE REQUIRED), DEWATERING, EPOXY PROTECTIVE COATING, ETC.
3. LUMP SUM PAYMENT FOR PREFABRICATED FRP PEDESTRIAN BRIDGE SHALL INCLUDE ALL ENGINEERING, LABOR, MATERIALS, EQUIPMENT, DELIVERY, AND OTHER INCIDENTALS NECESSARY FOR THE PREFABRICATED FRP PEDESTRIAN BRIDGE, APPROACH RAILING, PEDESTRIAN RAILING, STEEL PILE POINTS, PILE DRIVE SETUP, PILE TESTING (WHERE REQUIRED), DEWATERING, EPOXY PROTECTIVE COATING, ETC.
4. LUMP SUM PAYMENT FOR FRP BOARDWALK SHALL INCLUDE ALL ENGINEERING, LABOR, MATERIALS, EQUIPMENT, DELIVERY, AND OTHER INCIDENTALS NECESSARY FOR THE FRP BOARDWALK, TIMBER DECKING, TIMBER PEDESTRIAN RAILING, APPROACH RAILINGS, PILE PEDRILLING, STEEL PILE POINTS, PILE DRIVE SETUP, PILE TESTING (WHERE REQUIRED), DEWATERING, EPOXY PROTECTIVE COATING, ETC.

NO.	REVISIONS	DATE	BY
1	ISSUED FOR BID	08/02/22	ASA

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421 FAYETTEVILLE STREET, SUITE 600, RALPHOCH, NC 27601
PHONE: 919-877-2000 FAX: 919-877-2050
WWW.KIMLEY-HORN.COM
#-0102



KHA PROJECT	012854010
DATE	08/02/2022
SCALE	AS SHOWN
DESIGNED BY	BMB
DRAWN BY	JMK
CHECKED BY	KDM

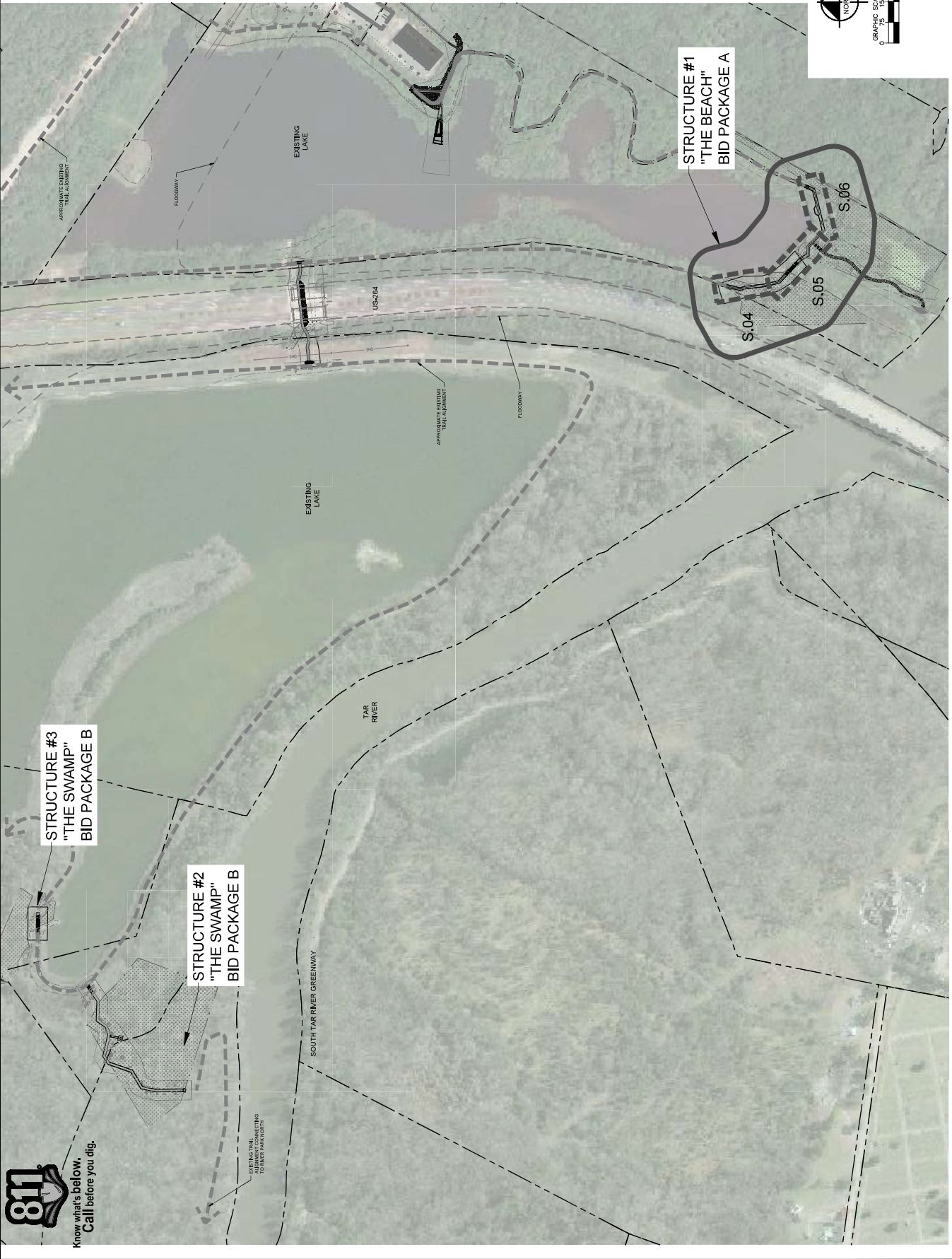
BRIDGE GENERAL NOTES

WILDWOOD PARK -
TOWER AND TRAILS
PACKAGE A
PREPARED FOR
CITY OF GREENVILLE
GREENVILLE

SHEET NUMBER
S.02.A

SURVEY NOTE

ALL EXISTING TOPOGRAPHICAL AND BOUNDARY INFORMATION WAS PROVIDED BY WATERS & ASSOCIATES, INC. (W&A) AND VERIFIED BY KIMLEY-HORN AND ASSOCIATES, INC. (KHA) ON 08/02/2022. PHONE: 919-877-2000. FAX: 919-877-2050.

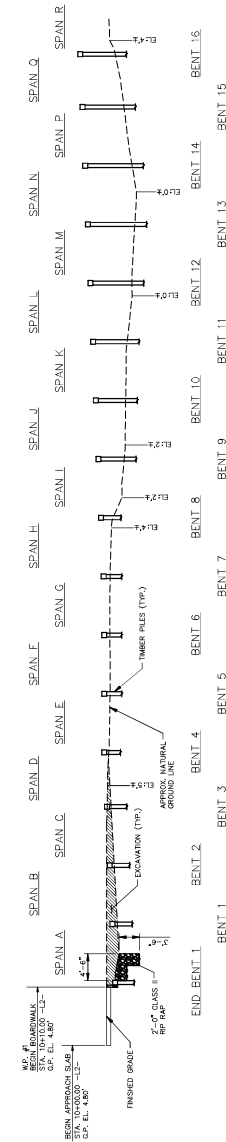




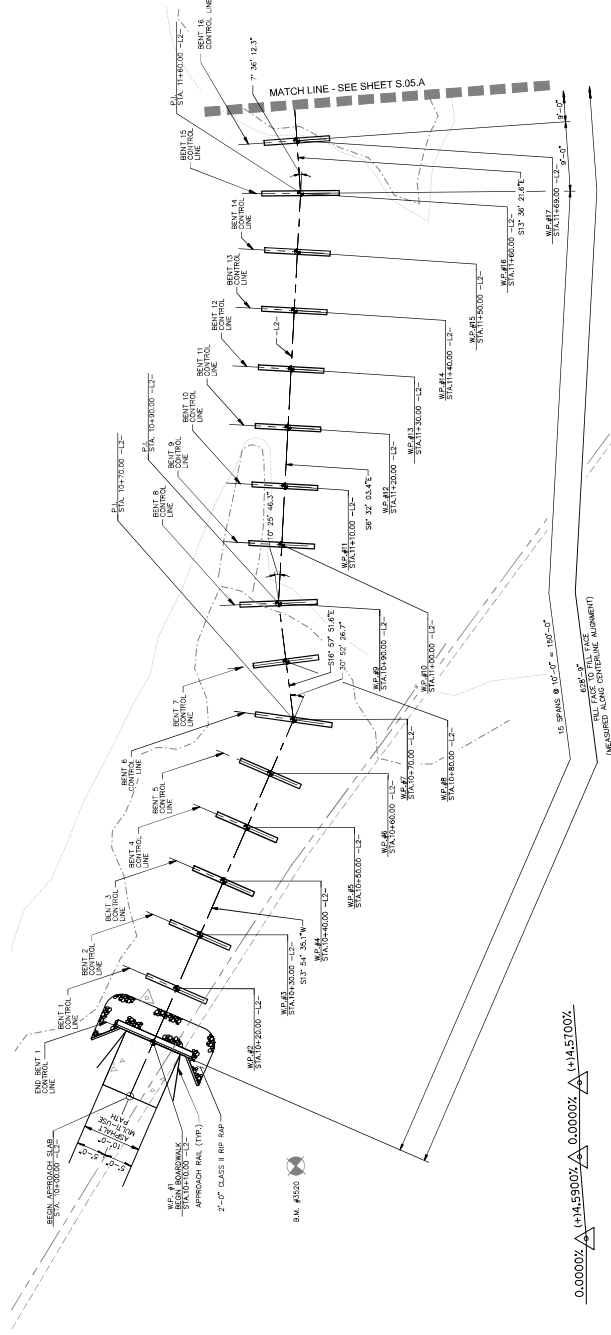
Know what's below.
Call before you dig.

10+00

11+00



SECTION A-LONG L2-
(SECTIONS A BENTS AND END BENTS ARE @ RIGHT ANGLES)
(LONGITUDINAL BRACING NOT SHOWN FOR CLARITY)



-L2- VERTICAL CURVE DATA

PVI STA. = 10+10.00 -L2- PVI STA. = 10+50.00 -L2- PVI STA. = 10+80.00 -L2-
EL. = 4.80' EL. = 6.64' EL. = 6.64'
V.C. = 0' V.C. = 0' V.C. = 0'

0.0000% (+)A.5900% 0.0000% (+)A.5100%.

PLAN
(FILES NOT SHOWN IN PLAN VIEW)



GRAPHIC SCALE IN FEET
0 5 10 20

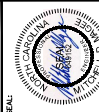
CURVE DATA
ALL EXISTING TOPOGRAPHICAL AND BOUNDARY
INFORMATION WAS PROVIDED BY HORN & ASSOCIATES
INC. DATE: 08/02/2022
PHONE: 252-345-8571

SHEET NUMBER
S.04.A

WILWOOD PARK -
TOWER AND TRAILS
PACKAGE A
CITY OF GREENVILLE
GREENVILLE

PLAN AND PROFILE -
THE BEACH (AREA 2)
(STRUCTURE #1)

KHA PROJECT
012554010
DATE
08/02/2022
SCALE AS SHOWN
DESIGNED BY BHM
CHECKED BY JHM

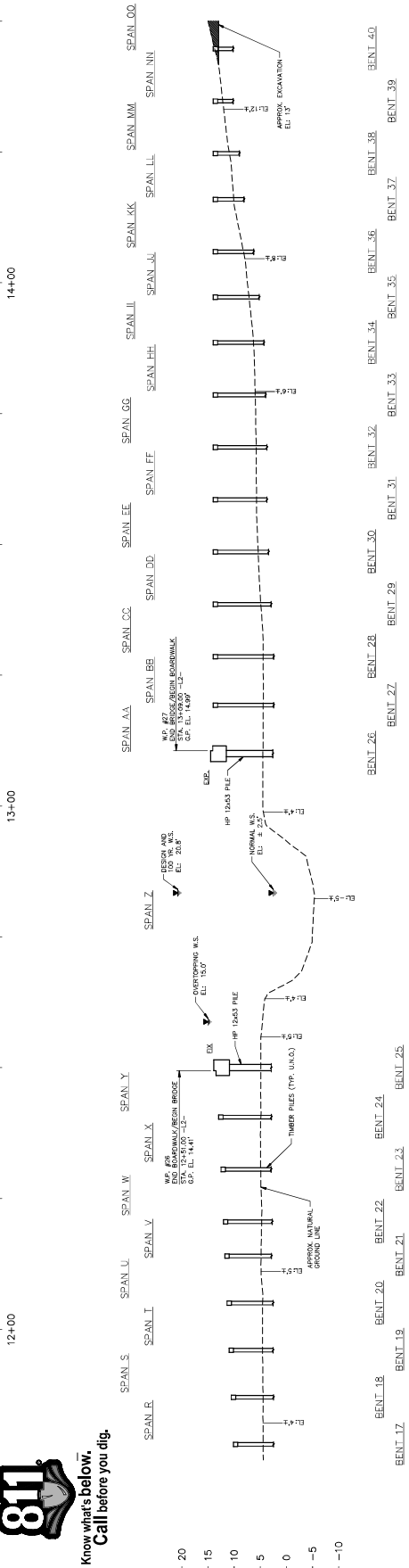


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#-0102

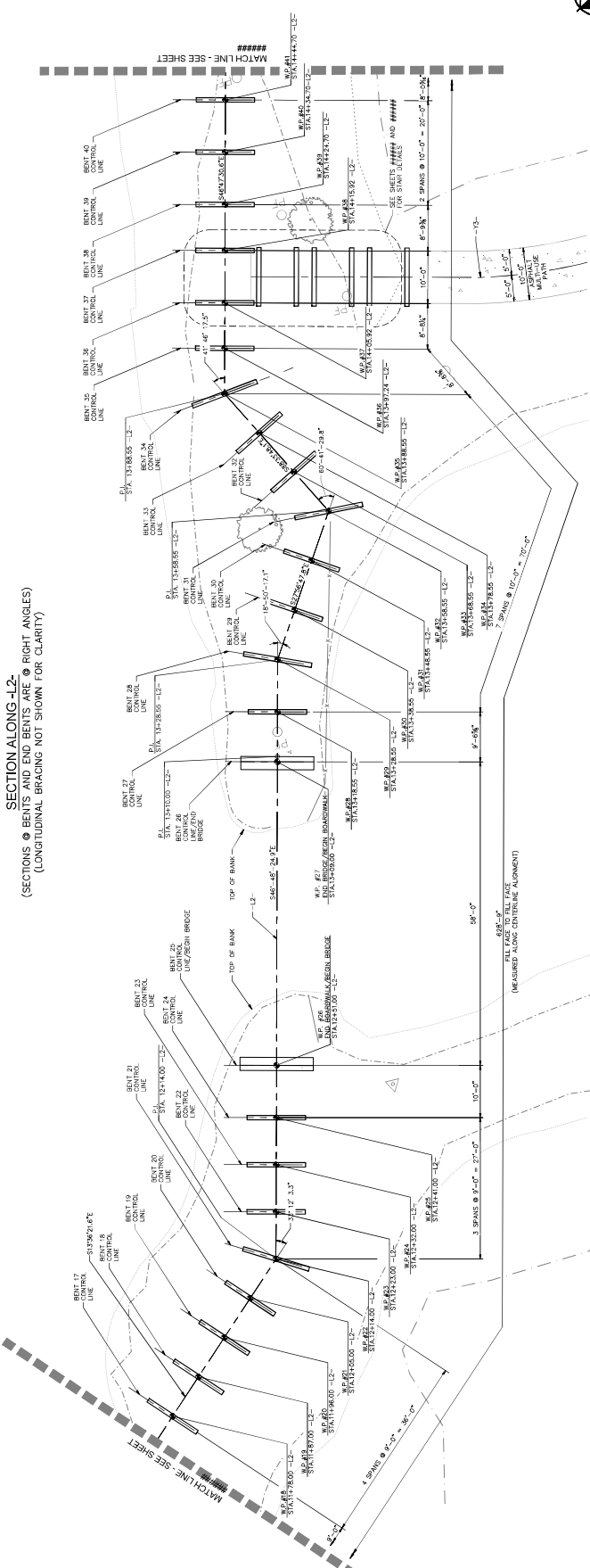
No.	REVISIONS	DATE	BY
1	ISSUED FOR BID	08/02/22	ASA



Know what's below.
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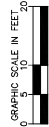
SECTION ALONG -L2-
(SECTIONS & BENTS AND BENTS ARE @ RIGHT ANGLES)
(LONGITUDINAL BRACING NOT SHOWN FOR CLARITY)



1+4.5200% Δ 1+1.0000% Δ 0.0000%

-L2- VERTICAL CURVE DATA
PVI STA. = 12+50.00 -L2- PVI STA. = 13+10.00 -L2-
EL. = 14.40' EL. = 15.00'
V.C. = 0' V.C. = 0'

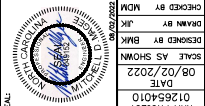
PLAN
(PILES NOT SHOWN IN PLAN VIEW)



CURSE NOTE:
ALL EXISTING TOPOGRAPHICAL AND BOUNDARY
INFORMATION WAS PROVIDED BY WATERS & ASSOCIATES
INC. DATE: 08/02/2022. ALL INFORMATION IS TO BE
USED AS SHOWN. DATE: 08/02/2022.

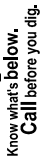
WILLOW PARK -
TOWER AND TRAILS
PACKAGE A
PREPARED FOR
CITY OF GREENVILLE
GREENVILLE
SHEET NUMBER
S.05A

PLAN AND PROFILE -
THE BEACH (AREA 2)
(STRUCTURE #1)
KHA PROJECT
012534010
DATE
08/02/2022
SCALE AS SHOWN
DESIGNED BY
JMK
CHECKED BY
JMK



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PHONE: 919-877-5000 FAX: 919-437-7050
WWW.KIMLEY-HORN.COM
#-0102

NO.	REVISIONS	DATE	BY
1	ISSUED FOR BID	08/02/22	MSA

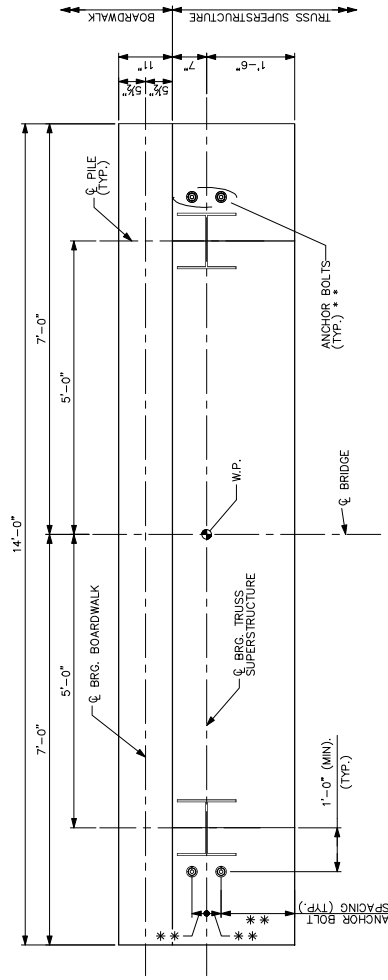


**Know what's below.
Call before you dig.**

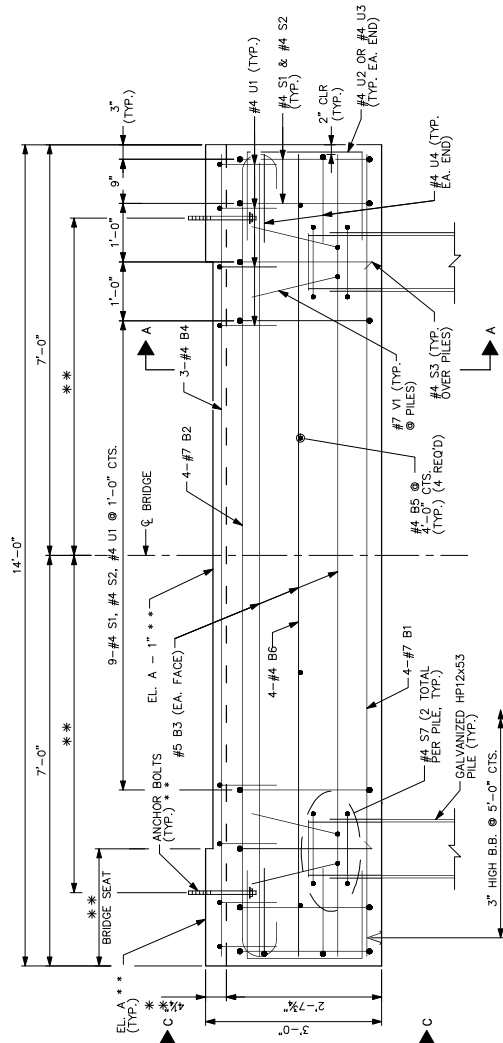


NOTES

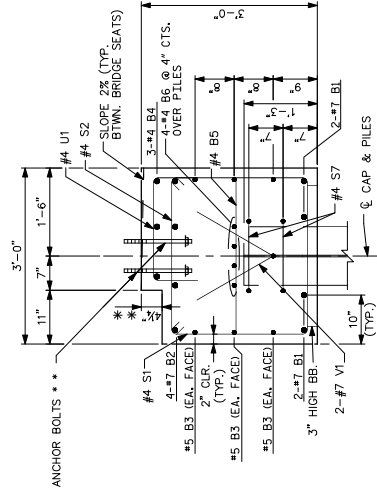
* * REFER TO PREFABRICATED PEDESTRIAN BRIDGE PLANS (BY OTHERS) FOR ANCHOR BOLT PLACEMENT, DETAILS, AND DIMENSIONS NOT SHOWN. MINIMUM EMBEDMENT OF ANCHOR BOLTS SHALL BE 15".



BRIDGE BENT PLAN

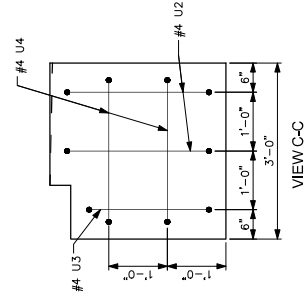


BRIDGE BENT ELEVATION



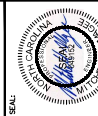
NOTE: TIMBER BOARDWALK TO BRIDGE CONNECTION NOT SHOWN FOR CLARITY.

SECTION A-A



VIEW C-C

No.	REVISIONS	DATE	BY
1	ISSUED FOR BID	08/02/22	ASA



KHA PROJECT	012654010
DATE	08/02/2022
SCALE AS SHOWN	
DESIGNED BY	BMK
DRAWN BY	JLK
CHECKED BY	MDM

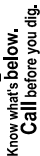
BRIDGE END BENT
DETAILS

WILDWOOD PARK -
TOWER AND TRAILS
PACKAGE A
PREPARED FOR
CITY OF GREENVILLE

SURVEY NOTE:

ALL EXISTING TOPOGRAPHICAL AND BOUNDARY
INFORMATION WAS PROVIDED BY RMERS & ASSOCIATES
INC., 107 EAST SECOND STREET GREENVILLE, NC 27618
PHONE: 252-752-4135 DATED 05/17/21.

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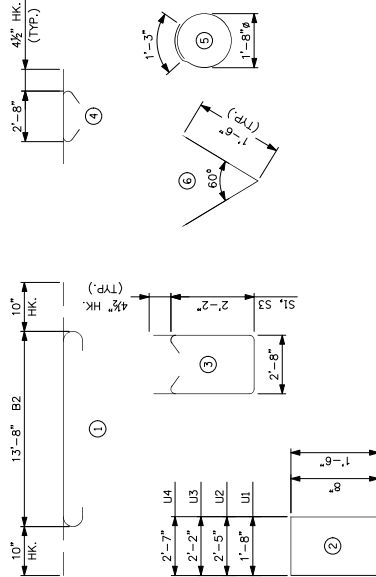
* * REFER TO PREFABRICATED PEDESTRIAN BRIDGE AND PRECAST CONCRETE BOARDWALK PLANS (BY OTHERS) FOR ANCHOR BOLT PLACEMENT AND DETAILS, AND FOR DIMENSIONS NOT SHOWN OR REQUIRING VERIFICATION BY THE PREFABRICATED BRIDGE ENGINEER.

CONTRACTOR MUST UPDATE DIMENSIONS BASED ON ACTUAL INFORMATION PROVIDED BY THE PEDESTRIAN BRIDGE FABRICATOR. ADHESIVE ANCHOR SYSTEM SHALL HAVE A MINIMUM PULLOUT STRENGTH (ALLOWABLE) OF 10 KIPS. THE ADHESIVE ANCHOR SYSTEM SHALL BE CHOSEN FROM THOSE ON THE NCDOT APPROVED PRODUCTS LIST.

FOR SETTING TIMBER BOARDWALK ANCHOR BOLTS, THE CONTRACTOR SHALL USE AN ADHESIVE BONDING SYSTEM. SEE ADHESIVELY ANCHORED BOLTS IN TIMBER BOARDWALK SPECIAL PROVISION. LEVEL ONE FIELD TESTING OF BONDING IS REQUIRED.

BILL OF MATERIAL

2'-8" $4\frac{1}{2}$ " HK. (TYP)

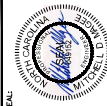


ALL BAR DIMENSIONS ARE OUT-TO-OUT.

BAR NO.	SIZE	TYPE	WGT.	
B1	7	STR	13'-5"	
B2	4	7	15'-5"	
B3	6	5	STR	13'-5"
B4	3	4	STR	13'-5"
B5	4	STR	2'-8"	
B6	4	4	STR	13'-5"
U1	15	4	2	3'-0"
U2	2	4	2	5'-7"
U3	2	4	2	5'-2"
U4	4	2	5'-7"	
S1	13	4	3	7'-5"
S2	13	4	3	5'-5"
S3	2	4	3	5'-5"
S4	4	3	5	6'-6"
S5	2	4	3	6'-6"
S6	4	3	5	6'-6"
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S9	4	3	5	6'-6"
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S316	4	3	5	6'-6"
S317	4	3	5	6'-6"
S318	4	3	5	6'-6"
S319	4	3	5	

REINFORCING STEEL	LBS.	610
CLASS A CONCRETE	C. Y.	5.0

Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
421 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601
PHONE: 919-677-2000 FAX: 919-677-2050
WWW.KIMLEY-HORN.COM #F-0102

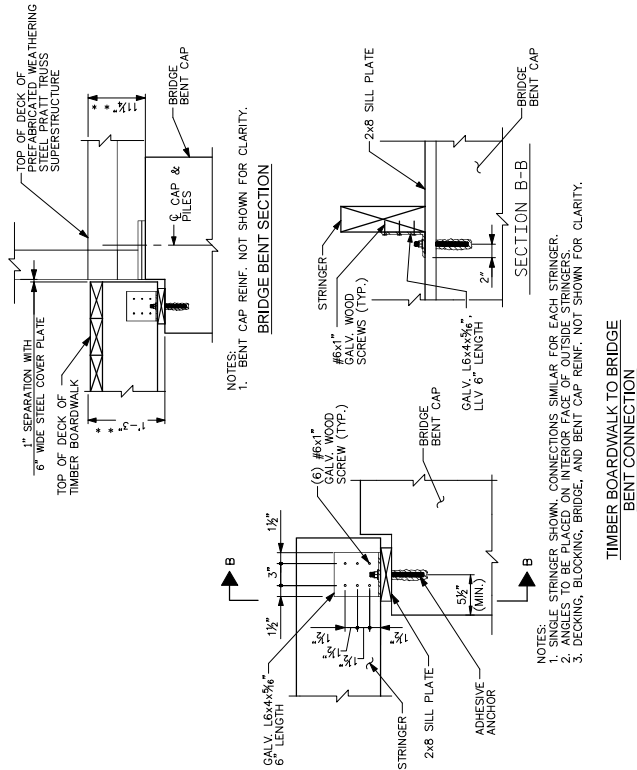


012654010	DATE	08/02/2022
	SCALE AS SHOWN	
	DESIGNED BY	BMK
	DRAWN BY	JLK
	CHECKED BY	MDM

BRIDGE END BENT
BILL OF MATERIAL

WILWOOD PARK -
TOWER AND TRAILS
PACKAGE A
PREPARED FOR
CITY OF GREENVILLE

SHEET NUMBER
S.08.A



NOTES:
1. SINGLE STRINGER SHOWN. CONNECTIONS SIMILAR FOR EACH STRINGER.
2. ANGLES TO BE PLACED ON INTERIOR FACE OF OUTSIDE STRINGERS.
3. DECKING, BLOCKING, BRIDGE, AND BENT CAP REINF. NOT SHOWN FOR CLARITY.

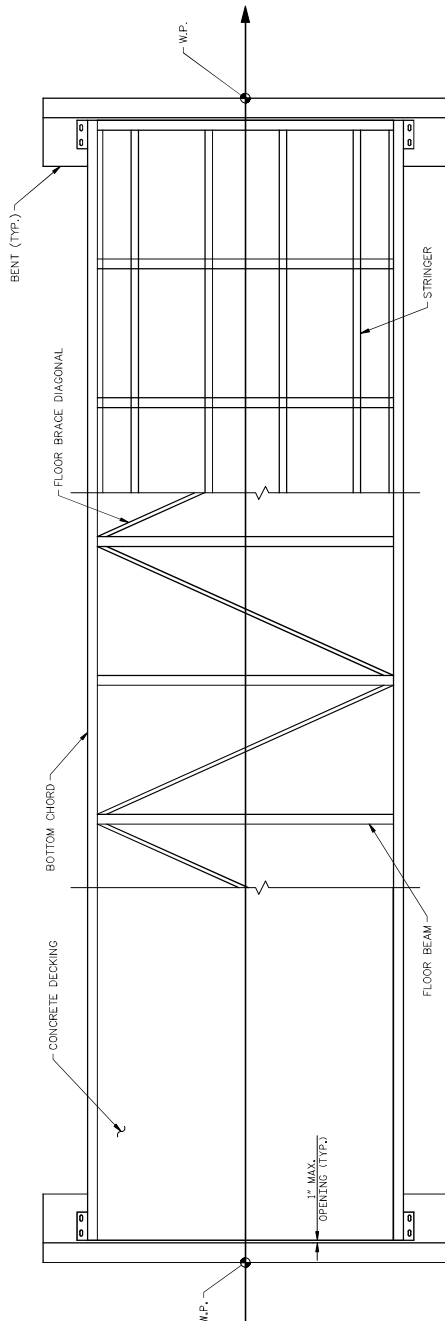
TIMBER BOARDWALK TO BRIDGE BENT CONNECTION



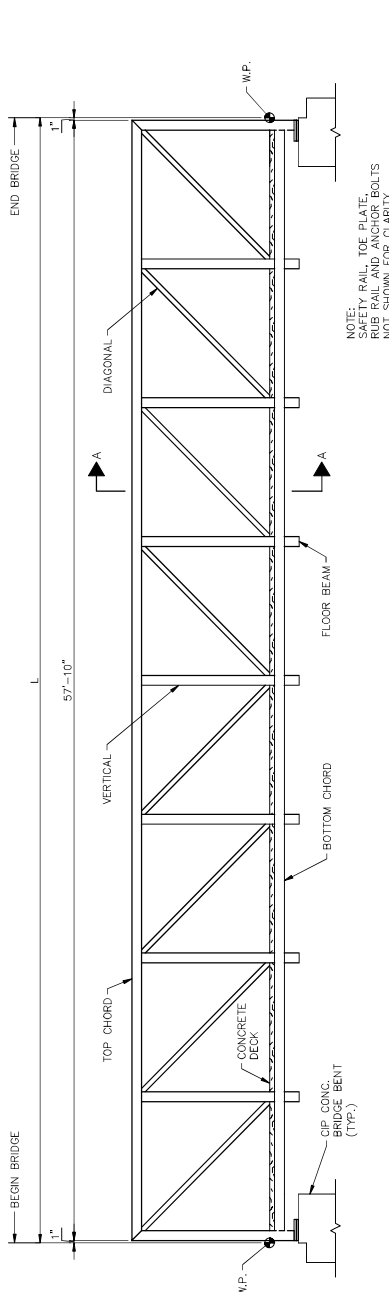
Know what's below.
Call before you dig.

NOTES

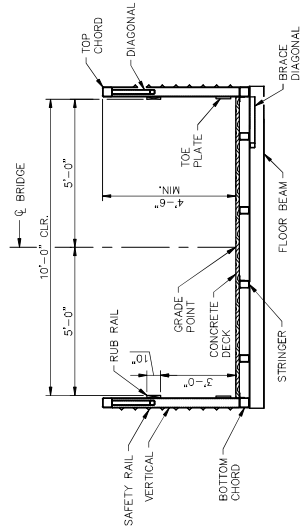
PREFABRICATED PEDESTRIAN BRIDGE
DETAILS SHOWN FOR AESTHETIC REQUIREMENT
ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE
FOR THE DESIGN AND DETAIL OF THE
SUPERSTRUCTURE. SEE SPECIAL PROVISIONS.



PREFABRICATED PEDESTRIAN BRIDGE PLAN



PROPOSED 60' PREFABRICATED STEEL BRIDGE ELEVATION (PRATT TRUSS)



SECTION A-A

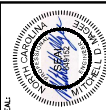
SUBMITTAL
ALL EXISTING TOPOGRAPHICAL AND BOUNDARY
INFORMATION WAS PROVIDED BY KIMLEY-HORN & ASSOCIATES, INC.
PHONE: 919-421-2000 FAX: 919-421-2050
DATE: 08/02/2022

SHEET NUMBER
S.06A

WILDMOOD PARK -
TOWER AND TRAILS
PACKAGE A
PREPARED FOR
CITY OF GREENVILLE
GREENVILLE

PREFABRICATED
PEDESTRIAN BRIDGE
DETAILS

CHIEF ENGINEER
DESIGNED BY
SCALE AS SHOWN
DATE
KHA PROJECT
012554010
08/02/2022
JMK
JMK
JMK



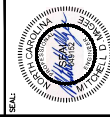
Kimley-Horn & Associates, Inc.
421 PAVETTILLE STREET, SUITE 600, RALPH, NC 27601
PHONE: 919-421-2000 FAX: 919-421-2050
WWW.KIMLEY-HORN.COM
#-0102

NO.	REVISIONS	DATE	BY
1	ISSUED FOR BID	08/02/22	MSA

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No.	REVISIONS	DATE	BY
1	ISSUED FOR BID	08/02/22	ASA

Kimley»Horn
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
121 FAYETTEVILLE STREET, SUITE 600, RALEIGH, NC 27601
PHONE: 919-677-2000 FAX: 919-677-2050
WWW.KIMLEY-HORN.COM
#1-0102



KHA PROJECT	012654010	DATE	08/02/2022	SCALE AS SHOWN	DESIGNED BY	BMK	DRAWN BY	JLK	CHECKED BY	MDM
-------------	-----------	------	------------	----------------	-------------	-----	----------	-----	------------	-----

TIMBER BOARDWALK DETAILS

WILWOOD PARK -
TOWER AND TRAILS
PACKAGE A
PREPARED FOR
CITY OF GREENVILLE

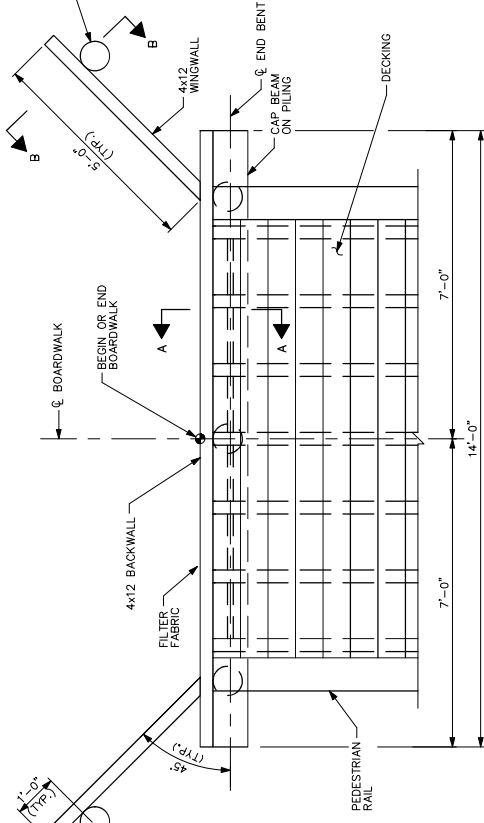
SHEET NUMBER
S.10.A

NOTES

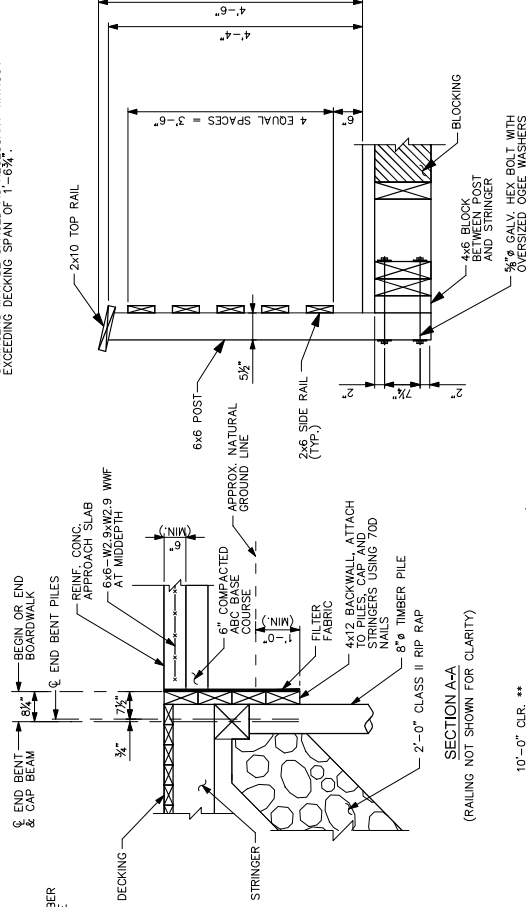
STRINGER TO CAP BEAM CLIP SHALL BE:
1. SIMPSON STRONG TIE LTS12
2. USP TIE RT4
3. OR APPROVED EQUAL

CAP BEAM TO PILING STRAP SHALL BE:
1. SIMPSON MSTA12 FLAT STRAP
2. USP MSTA12 FLAT STRAP
3. OR APPROVED EQUAL

TIMBER PILES SHALL HAVE MINIMUM TIP DIAMETER OF 8" STRINGERS MAY BE SPACED AS NECESSARY WITHOUT EXCEEDING DECKING SPAN OF 1'-6 $\frac{3}{4}$ ".

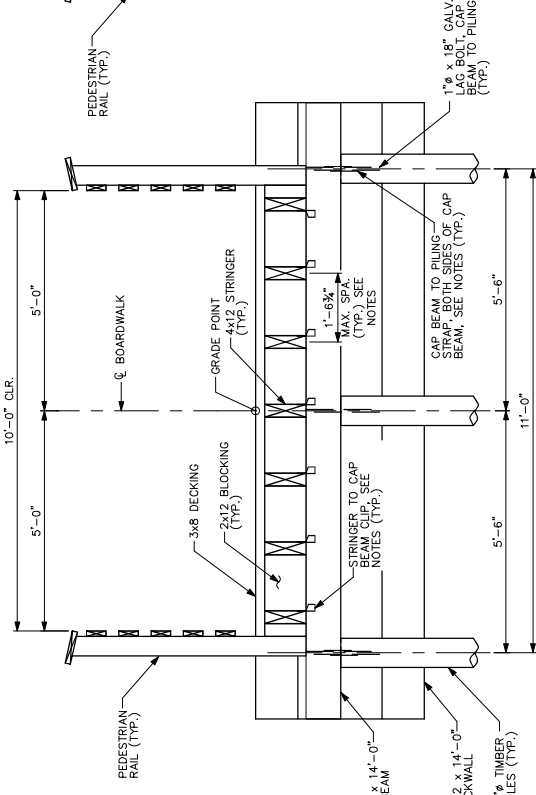


TIMBER BOARDWALK END BENT PLAN

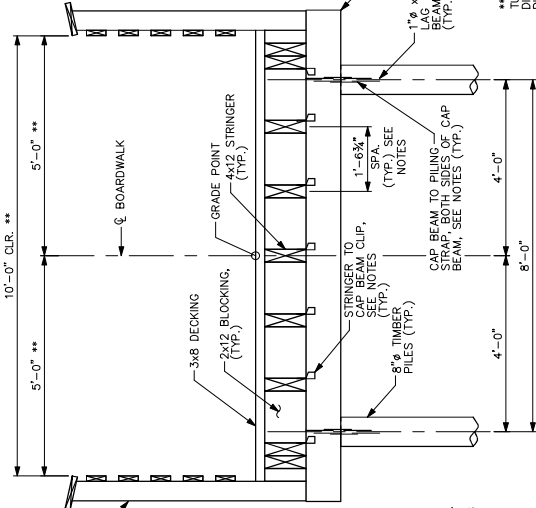


SECTION A-A

(RAILING NOT SHOWN FOR CLARITY)

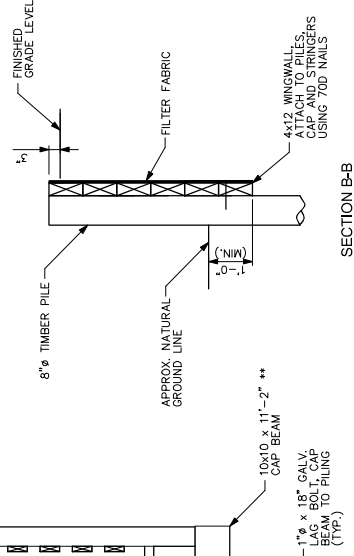


TIMBER BOARDWALK END BENT ELEVATION



TIMBER BOARDWALK BENT ELEVATION

PEDESTRIAN RAIL DETAIL

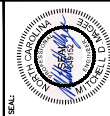


SECTION B-B

** DIMENSIONS VARY FOR BENTS LOCATED AT BOARDWALK TURNS. CAP BEAM SIZE INCREASES TO 10x10x13'-2". CLEAR DISTANCE BETWEEN RAILINGS VARIES FOR THESE LOCATIONS. BUILT TO MEET LOCAL CODES.

SURVEY NOTE:
ALL EXISTING TOPOGRAPHICAL AND BOUNDARY
INFORMATION WAS PROVIDED BY RIVERS & ASSOCIATES
INC., 107 EAST SECOND STREET GREENVILLE, NC 27658
PHONE: 252-375-2413, DATED 03/17/21.

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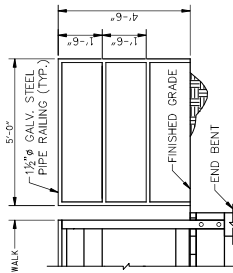


TIMBER BOARDWALK FRAMING DETAILS

NC	
----	--

WILDWOOD PARK -
TOWER AND TRAILS
PACKAGE A
PREPARED FOR
CITY OF GREENVILLE

SHEET NUMBER
S.11.A

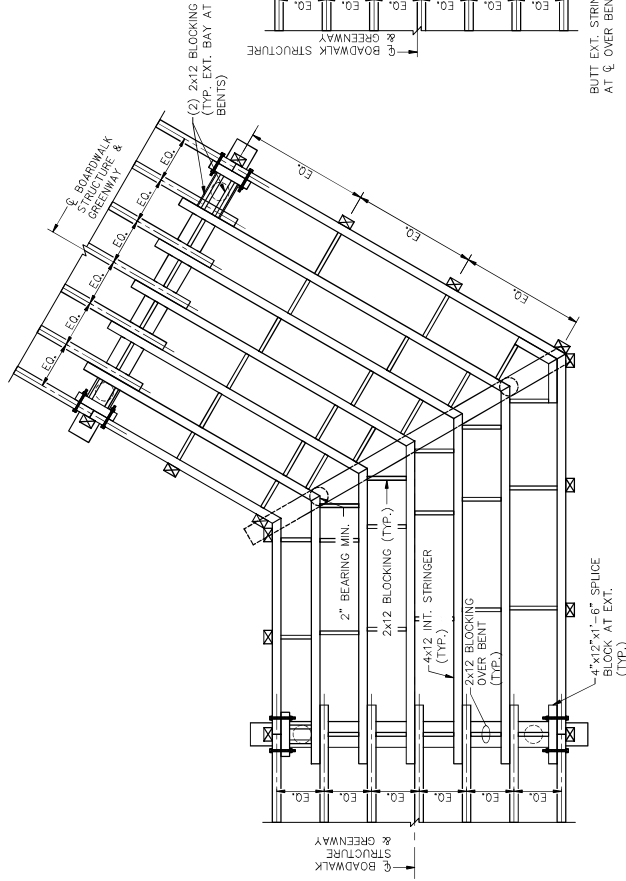


TYPICAL APPROACH RAIL

PLAN

ELEVATION

TIMBER BOARDWALK DECK FRAMING PLAN



FRAMING AT $>30^\circ$ TURN

FRAMING AT $<30^\circ$ TURN

NOTES

5'-0" MAX. RAIL POST SPACING.
ADD ADDITIONAL POSTS FOR SPANS
AND EXTERIOR EDGE DISTANCES
BETWEEN BENTS TO MAINTAIN 5'-0"
MAXIMUM.

SURVEY NOTE:

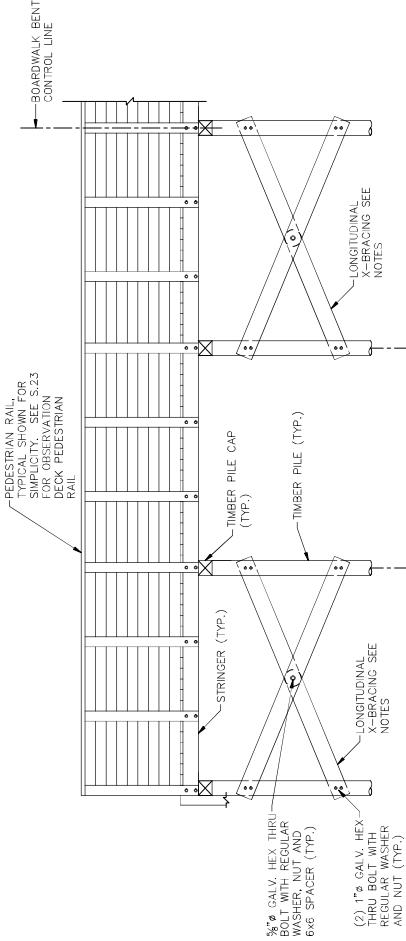
ALL EXISTING TOPOGRAPHICAL AND BOUNDARY
INFORMATION WAS PROVIDED BY RIVERS & ASSOCIATES,
INC., 107 EAST SECOND STREET GREENVILLE, NC 27658
PHONE: 252-752-4135 DATED 08/17/21.

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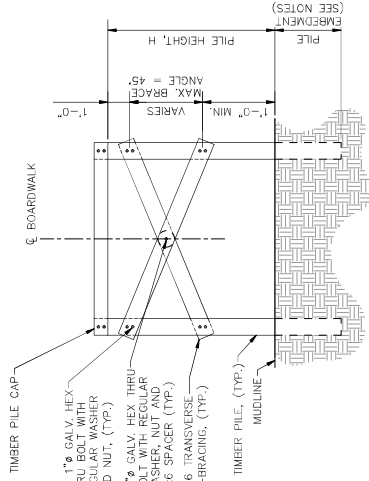
Know what's below.
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FOUNDATION AND BRACING REQUIREMENTS				
ALIGNMENT	BENT NO.	PILE TYPE	NO. PILES PER SUBSTRUCTURE UNIT,	ESTIMATED PILE LENGTH (PER PILE), FT.
-L2 (THE BEACH)	END BENT 1	8" DIA. TIMBER	3	35
	1-5	8" DIA. TIMBER	2	40
	6	8" DIA. TIMBER	2	45
	7	8" DIA. TIMBER	2	40
	8	8" DIA. TIMBER	2	45
	9-11	8" DIA. TIMBER	2	40
	12-14	8" DIA. TIMBER	2	45
	15	8" DIA. TIMBER	2	45
	16-20	8" DIA. TIMBER	2	40
	21-23	8" DIA. TIMBER	2	45
	22-24	8" DIA. TIMBER	2	40
	25-26	8" DIA. TIMBER	2	55
	27	8" DIA. TIMBER	2	40
	28	8" DIA. TIMBER	2	45
	29	8" DIA. TIMBER	2	40
	30	8" DIA. TIMBER	2	40
	31	8" DIA. TIMBER	2	45
	32-33	8" DIA. TIMBER	2	40
	34	8" DIA. TIMBER	2	45
	35-42	8" DIA. TIMBER	2	40
	43	8" DIA. TIMBER	2	45
	44	8" DIA. TIMBER	2	40
	45	8" DIA. TIMBER	2	40
	46-48	8" DIA. TIMBER	2	45
	49	8" DIA. TIMBER	2	50
	50-52	8" DIA. TIMBER	4	50
	53	8" DIA. TIMBER	2	50
	54	8" DIA. TIMBER	2	55
	55-56	8" DIA. TIMBER	2	40
	57	8" DIA. TIMBER	2	40
	END BENT 2	8" DIA. TIMBER	3	35
	1-6	8" DIA. TIMBER	2	40
-Y3 (THE BEACH)				



NOTES:
1. PROVIDE LONGITUDINAL 3x6 X-BRACING ON EACH SIDE OF BOARDWALK WHEN DICTATED IN "FOUNDATION AND BRACING REQUIREMENT" TABLE.

DETAIL A - LONGITUDINAL BRACING



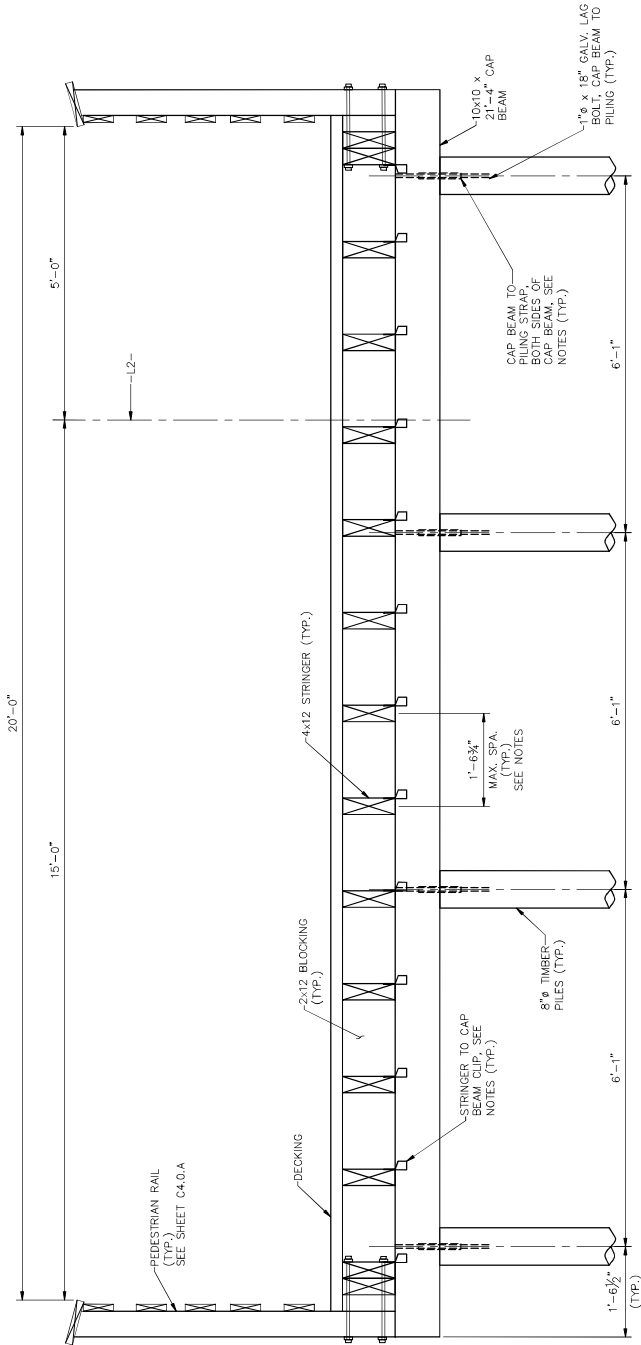
DETAIL B - LATERAL BRACING

NOTES:
1. SEE GEOTECHNICAL REPORT FOR FOUNDATION TYPE INFORMATION AND RECOMMENDED BRACING.
2. PROVIDE MIN. CLEARANCE OF 7x BOLT DIAMETER FROM BOLT TO END OF BRACING.
3. WHERE BRACES ARE REQUIRED, BRACE ANGLE TO BE MAXIMIZED UP TO 45°.

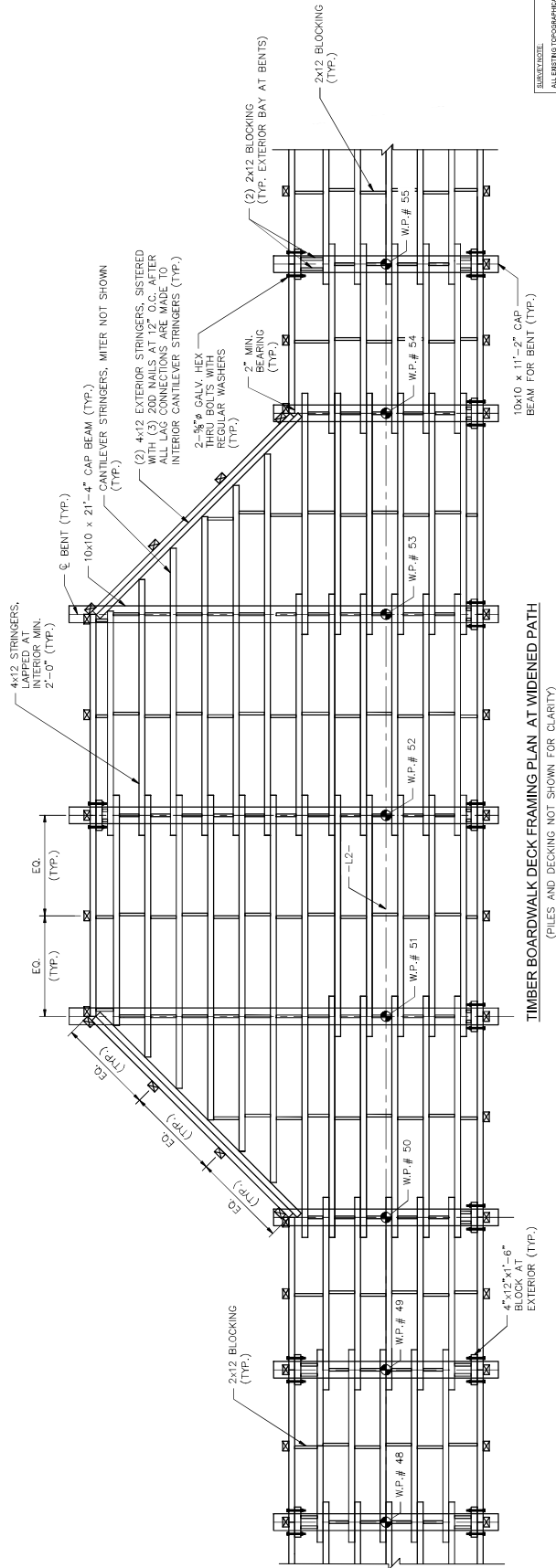
SUBMITTAL:
ALL BRACING TOPOGRAPHICAL AND BOUNDARY INFORMATION WAS PROVIDED BY WATERS & ASSOCIATES, INC. (W&A) ON 08/02/2022. PHONE: 252-345-1818 DATED 08/01/21.



Know what's below.
Call before you dig.



TIMBER BOARDWALK BENT ELEVATION AT WIDENED PATH



TIMBER BOARDWALK DECK FRAMING PLAN AT WIDENED PATH
(PILES AND DECKING NOT SHOWN FOR CLARITY)

SUBMITTAL

ALL EXISTING TOPOGRAPHICAL AND BOUNDARY INFORMATION WAS PROVIDED BY THE CLIENT. THE ENGINEER HAS CONDUCTED A VISUAL VERIFICATION OF THE INFORMATION PROVIDED. THE ENGINEER HAS NOT CONDUCTED A FIELD SURVEY OF THE PROJECT. THE ENGINEER HAS NOT CONDUCTED A FIELD SURVEY OF THE PROJECT. THE ENGINEER HAS NOT CONDUCTED A FIELD SURVEY OF THE PROJECT.

NO.	REVISIONS	DATE	BY
1	ISSUED FOR BID	06/02/22	ASA

Kimley-Horn
421 PAVETTAVILLE STREET, SUITE 600, RALPH, NC 27601
PHONE: 919-877-3000 FAX: 919-877-2050
WWW.KIMLEY-HORN.COM
#-0102

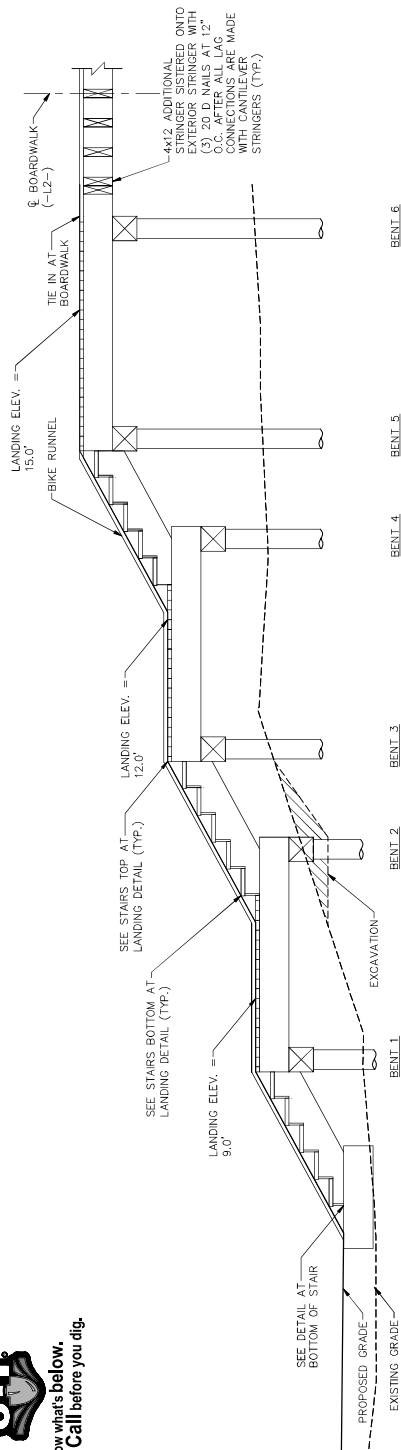


PROJECT NO. 012584010
DATE 06/02/2022
SCALE AS SHOWN
DESIGNED BY BAK
CHECKED BY JMK
DRAWN BY JMK

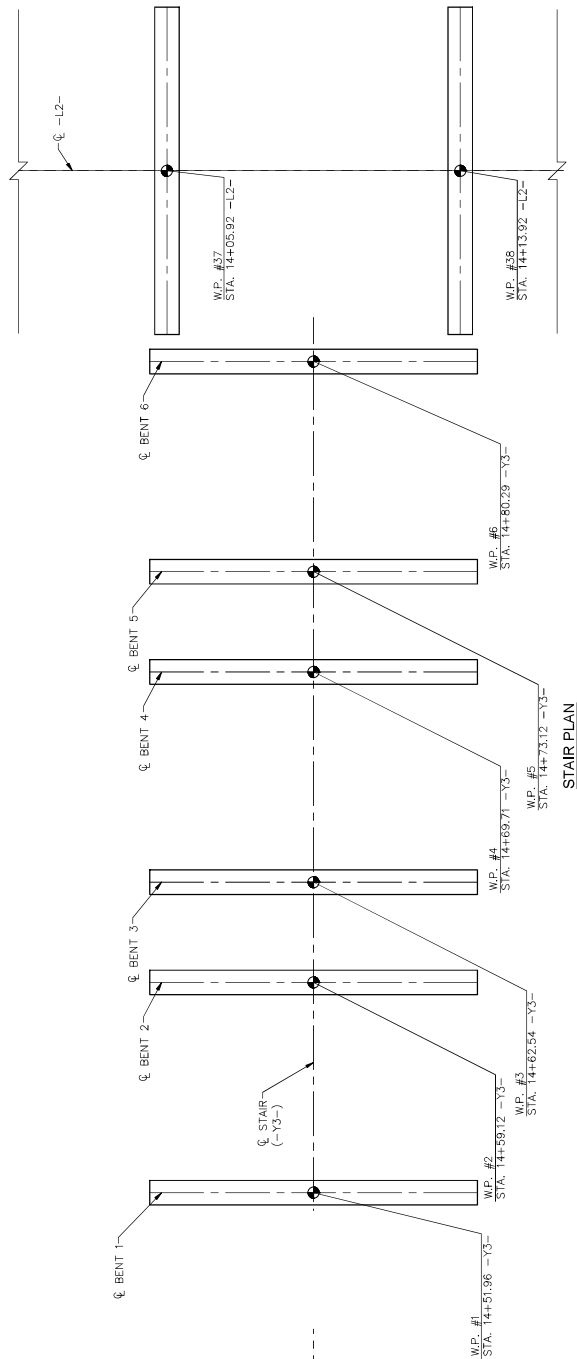
WIDENED DECK DETAILS

WILDMOOD PARK -
TOWER AND TRAILS
PACKAGE A
CITY OF GREENVILLE
GREENVILLE

SHEET NUMBER
S.13.A



STAIR ELEVATION



STAIR PLAN



GRAPHIC SCALE IN FEET

A horizontal scale bar with tick marks at 0, 1, 2, and 4 feet. The bar is divided into alternating black and white segments. The segments between 0 and 1, 1 and 2, and 2 and 4 are black, while the segments between 0 and 1, 1 and 2, and 2 and 4 are white.

SURVEY NOTE:

ALL EXISTING TOPOGRAPHICAL AND BOUNDARY INFORMATION WAS PROVIDED BY RIVERS & ASSOCIATES, INC., 107 EAST SECOND STREET GREENVILLE, NC 27658
PHONE: 252-362-4135, DATED 05/11/73

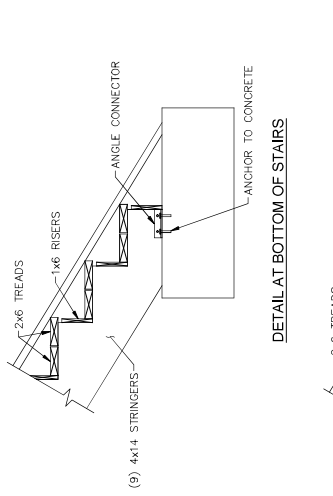
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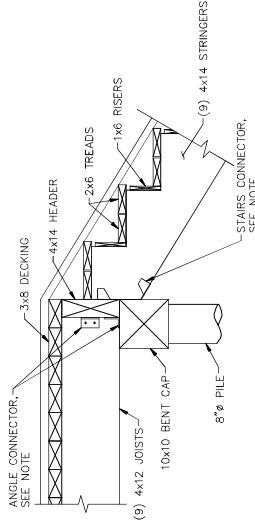
Know what's below.
Call before you dig.

NOTES

STAIR GEOMETRY AND DETAILS SHOWN ARE CONCEPTUAL.
CONSULT YOUR SUBMITTER FOR TO SUBMIT GEOMETRY AND DETAILS FOR
APPROVAL.

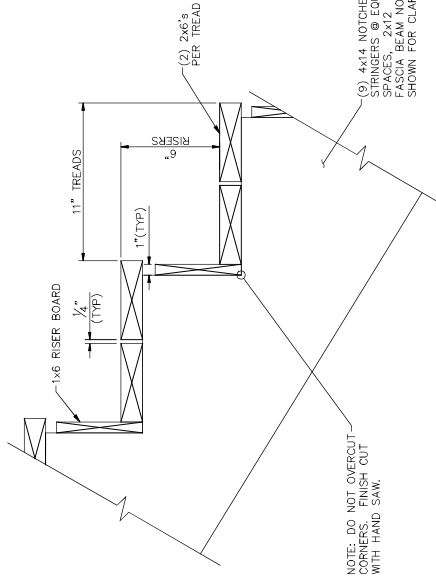


DETAIL AT BOTTOM OF STAIRS



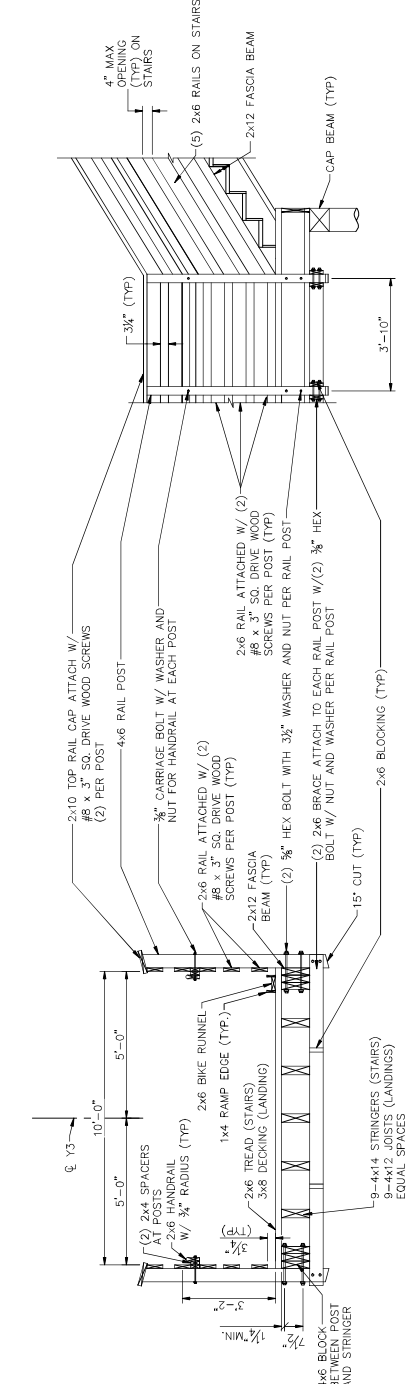
STAIRS AT TOP OF LANDING DETAIL
2x12 FASCIA BEAMS NOT SHOWN FOR CLARITY

- CONNECTORS NOTE:
CLIP CONNECTOR SHALL BE:
1. SIMPSON STRONG TIE LST12
2. USP TIE RT4
3. OR APPROVED EQUAL
- ANGLE CONNECTOR SHALL BE:
1. SIMPSON STRONG TIE HCA10
2. USP GUSSET ANGLES HCA10
3. OR APPROVED EQUAL
- STAIRS CONNECTOR SHALL BE:
1. SIMPSON STRONG TIE LSSR410Z
2. USP SLOPE HANGERS LSSR410Z
3. OR APPROVED EQUAL



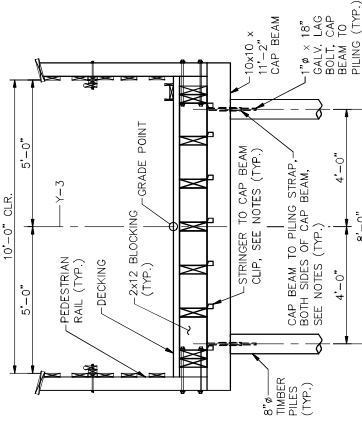
NOTE: DO NOT OVERCUT
CORNERS. FINISH OUT
WITH HAND SAW.

TYPICAL RISER DETAIL



TYPICAL SECTION THROUGH STAIRS
NOTE: SECTION CUT AT NOSE OF STAIR TREAD

STAIRS AT BOTTOM OF LANDING DETAIL
2x12 FASCIA BEAMS NOT SHOWN FOR CLARITY



TIMBER STAIR BENT ELEVATION

SUBMITTER NOTE:
ALL EXISTING TOPOGRAPHICAL AND BOUNDARY
INFORMATION WAS PROVIDED BY THE SUBMITTER & ASSOCIATE
ENGINEER. THE SUBMITTER & ASSOCIATE ENGINEER
PHONE: 252-345-1451 DATED 05/17/21.

GREENVILLE
CITY OF GREENVILLE
WILDMOOD PARK -
TOWER AND TRAILS
PACKAGE A
PREPARED FOR
CITY OF GREENVILLE

SHEET NUMBER
S.15.A

STAIR DETAILS

Kimley-Horn
421 KIMLEY-HORN AND ASSOCIATES, INC.
1000 KIMLEY-HORN DRIVE, SUITE 600, RALPHO, NC 27601
PHONE: 919-877-2000 FAX: 919-877-2050
WWW.KIMLEY-HORN.COM
#P-0102



CHECKED BY: JMK
DESIGNED BY: BMM
SCALE: AS SHOWN
DATE: 08/02/2022
KHA PROJECT: 012584010

NO.	REVISIONS	DATE	BY
1	ISSUED FOR BID	08/02/22	MSA



Know what's below.
Call before you dig.

DESIGN DATA:

SPECIFICATIONS -- -- -- -- -- A.A.S.H.T.O. (CURRENT)
LIVE LOAD -- -- -- -- -- SEE PLANS
IMPACT ALLOWANCE -- -- -- -- -- SEE A.A.S.H.T.O.
STRESS IN EXTREME FIBER OF
STRUCTURAL STEEL -- AASHTO M270 GRADE 36 -- -- -- 20,000 LBS. PER SQ. IN.
-- AASHTO M270 GRADE 50W -- -- -- 27,000 LBS. PER SQ. IN.
-- AASHTO M270 GRADE 50 -- -- -- 27,000 LBS. PER SQ. IN.
REINFORCING STEEL IN TENSION -- GRADE 60 -- -- -- 24,000 LBS. PER SQ. IN.
CONCRETE IN COMPRESSION -- -- -- -- -- 1,200 LBS. PER SQ. IN.
CONCRETE IN SHEAR -- -- -- -- -- SEE A.A.S.H.T.O.
STRUCTURAL TIMBER -- TREATED OR UNTREATED
EXTREME FIBER STRESS -- -- -- 1,800 LBS. PER SQ. IN.
COMPRESSION PERPENDICULAR TO GRAIN OF TIMBER -- -- -- 375 LBS. PER SQ. IN.
EQUIVALENT FLUID PRESSURE OF EARTH -- -- -- -- -- 30 LBS. PER CU. FT. (MINIMUM)

MATERIAL AND WORKMANSHIP:

EXCEPT AS MAY OTHERWISE BE SPECIFIED ON PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE 2018 "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" OF THE N. C. DEPARTMENT OF TRANSPORTATION.
STEEL SHEET PILING FOR PERMANENT OR TEMPORARY APPLICATIONS SHALL BE HOT ROLLED.

CONCRETE:

UNLESS OTHERWISE REQUIRED ON PLANS, CLASS A CONCRETE SHALL BE USED FOR ALL PORTIONS OF ALL STRUCTURES WITH THE EXCEPTION THAT: CONCRETE SHALL BE CLASS B FOR ALL CURBS, SIDEWALKS, APPROACHES, ABUTMENT BACKWALLS, AND APPROACH SLABS, AND CLASS B CONCRETE SHALL BE USED FOR SLOPE PROTECTION AND RIP RAP.

CONCRETE CHAMFERS:

UNLESS OTHERWISE NOTED ON THE PLANS, ALL EXPOSED CORNERS ON STRUCTURES SHALL BE CHAMFERED $\frac{3}{4}"$ WITH THE FOLLOWING EXCEPTIONS: TOP CORNERS OF CURBS MAY BE ROUNDED TO $\frac{1}{8}"$ RADIUS WHICH IS BUILT UP TO $\frac{3}{4}"$ WITH CONCRETE. CORNERS OF EXPANSION JOINTS IN THE ROADWAY SHALL BE ROUNDED WITH A $\frac{1}{2}"$ FINISHING TOOL UNLESS OTHERWISE REQUIRED ON PLANS, AND CORNERS OF EXPANSION JOINTS IN THE ROADWAY FACES AND TOPS OF CURBS AND SIDEWALKS SHALL BE ROUNDED TO A $\frac{1}{4}"$ RADIUS WITH A FINISHING STONE OR TOOL UNLESS OTHERWISE REQUIRED ON PLANS.

DOWELS:

DOWELS WHEN INDICATED ON PLANS AS FOR CULVERT EXTENSIONS, SHALL BE EMBEDDED AT LEAST 12" INTO THE OLD CONCRETE AND GROUTED INTO PLACE WITH 1:2 CEMENT MORTAR.

STANDARD NOTES

ALLOWANCE FOR DEAD LOAD DEFLECTION, SETTLEMENT, ETC. IN CASTING SUPERSTRUCTURES:

BRIDGES SHALL BE BUILT ON THE GRADE OR VERTICAL CURVE SHOWN ON PLANS. CURBS AND PARAPETS SHALL CONFORM TO THE GRADE OR CURVE. SLABS, CURBS AND PARAPETS SHALL CONFORM TO THE GRADE OR CURVE. ALL DIMENSIONS WHICH ARE GIVEN IN SECTION AND ARE AFFECTED BY DEAD LOAD DEFLECTION, SETTLEMENT, ETC. SHALL BE INDICATED AS SUCH. OTHERWISE NOTED ON PLANS. IN SETTING FORMS FOR STEEL BEAM BRIDGES AND PRESTRESSED CONCRETE GIRDER BRIDGES, ADJUSTMENTS SHALL BE MADE DUE TO THE DEAD LOAD DEFLECTIONS FOR THE ELEVATIONS SHOWN. WHERE VERTICAL DIMENSIONS OF THE BLOCKS SHALL BE ADJUSTED BETWEEN BEARINGS TO COMPENSATE FOR DEAD LOAD DEFLECTIONS, VERTICAL CURVE ORGNATE, AND ACTUAL BEAM CAMBER. WHERE BOTTOM OF SLAB IS IN LINE WITH BOTTOM OF ACTUAL BEAM CAMBER, THE BEARINGS SHALL BE ADJUSTED TO COMPENSATE FOR DEAD LOAD DEFLECTION, VERTICAL CURVE ORGNATE, AND ACTUAL BEAM CAMBER.

IN SETTING FALSEWORK AND FORMS FOR REINFORCED CONCRETE SPANS, AN ALLOWANCE SHALL BE MADE FOR DEAD LOAD DEFLECTION, SETTLEMENT, OF FALSEWORK, AND PERMANENT CAMBER WHICH SHALL BE PROVIDED FOR IN ADDITION TO THE ELEVATIONS SHOWN. AFTER REMOVAL OF THE FALSEWORK, THE FINISHED STRUCTURES SHALL CONFORM TO THE PROFILE AND ELEVATIONS SHOWN ON THE PLANS AND CONSTRUCTION ELEVATIONS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR FALSEWORK OR FORMS FOR BRIDGE SUPERSTRUCTURE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE CONSTRUCTION OF THE FALSEWORK OR FORMS IS STARTED.

REINFORCING STEEL:

ALL REINFORCING STEEL SHALL BE DEFORMED. DIMENSIONS RELATIVE TO PLACEMENT OF REINFORCING ARE TO CENTERS OF BARS UNLESS OTHERWISE INDICATED IN THE PLANS. DIMENSIONS ON BAR DETAILS ARE TO CENTERS OF BARS OR ARE OUT TO OUT AS INDICATED ON PLANS.

WIRE BAR SUPPORTS SHALL BE PROVIDED FOR REINFORCING STEEL WHERE INDICATED ON THE PLANS. WHEN BAR SUPPORT PIECES ARE PLACED IN CONCRETE, THEY SHALL BE SO PLACED THAT THE ENDS OF THE SUPPORTING WIRES SHALL BE LAPPED TO LOOK LESS ON ADJOINING PIECES.

STRUCTURAL STEEL:

AT THE CONTRACTOR'S OPTION, HE MAY SUBSTITUTE $\frac{3}{4}"$ SHEAR STUDS FOR THE $\frac{3}{4}"$ STUDS SPECIFIED ON THE PLANS. THIS SUBSTITUTION SHALL BE MADE AT THE RATE OF 1 $\frac{3}{4}"$ STUDS FOR 1 $\frac{3}{4}"$ STUDS, AND STUD SPACING SHALL BE 14" MAX. TO BE MAINTAINED THROUGHOUT THE ENTIRE LENGTH OF THE BEAM. THE MAXIMUM SPACING OF THE STUDS SHALL BE 2'-0". THE MAXIMUM SPACING OF THE STUDS ALONG THE BEAM AS SHOWN FOR $\frac{3}{4}"$ STUDS BASED ON THE RATIO OF 3 - $\frac{3}{4}"$ STUDS FOR 4 - $\frac{3}{4}"$ STUDS. THE STUDS OF THE LENGTH SPECIFIED ON THE PLANS MUST BE PROVIDED.

EXCEPT AT THE INTERIOR SUPPORTS OF CONTINUOUS BEAMS WHERE THE COVER PLATE IS IN CONTACT WITH BEARING PLATE, THE CONTRACTOR MAY, AT HIS OPTION, SUBSTITUTE COVER PLATES FOR THE BEARING PLATES. COVER PLATES OF THE EQUIVALENT AREA PROVIDED THESE PLATES ARE AT LEAST 1" IN THICKNESS AND DO NOT EXCEED A WIDTH EQUAL TO THE FLANGE WIDTH LESS 2" OR A THICKNESS EQUAL TO 2 TIMES THE FLANGE THICKNESS. THE SIZE OF ALL WELDS SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT AISC CODE OF PRACTICE. ELECTROSLAG WELDING WILL NOT BE PERMITTED.

WITH THE SOLE EXCEPTION OF EDGES AT SURFACES WHICH BEAR ON OTHER STRUCTURES, ALL EDGES OF STEEL PLATES SHALL BE FINISHED BY GRINDING OR SLIGHTLY ROUNDED BY SUITABLE MEANS TO A RADIUS OF APPROXIMATELY 1" INCH OR EQUIVALENT FLAT SURFACE AT A SUITABLE ANGLE PRIOR TO PAINTING, GALVANIZING, OR METALLIZING.

HANDRAILS AND POSTS:

METAL STANDARDS AND FACES OF THE CONCRETE END POSTS FOR THE METAL RAIL SHALL BE SET NORMAL TO THE GRADE OF THE CURB, UNLESS OTHERWISE SHOWN ON PLANS. THE ALUMINUM RAIL AND END POSTS SHALL BE USED THROUGHOUT THE ENTIRE LENGTH OF THE BRIDGE. THE ALUMINUM RAIL SHALL BE BUILT PARALLEL TO THE GRADE OF THE CURB.

METAL HANDRAILS SHALL BE IN ACCORDANCE WITH THE PLANS. RAILS SHALL BE AS MANUFACTURED FOR BRIDGE. UNLESS OTHERWISE SPECIFIED, THE UNIFORM APPEARANCE, FINIS AND OTHER DEFORMATIONS RESULTING FROM CASTING OR OTHERWISE SHALL BE REMOVED IN A MANNER SO THAT A UNIFORM COLORING OF THE COMPLETED CASTINGS SHALL BE OBTAINED. CASTINGS WITH DEFECTS OR IMPURITIES WHICH MAY BE DETECTED BY VISUAL INSPECTION OR CERTIFIED MILL REPORTS ARE REQUIRED FOR METAL RAILS AND POSTS.

SPECIAL NOTES:

GENERALLY, IN CASE OF DISCREPANCY, THIS STANDARD SHEET OF NOTES SHALL GOVERN OVER THE SPECIFICATIONS, BUT THE REMAINDER OF THE PLANS SHALL GOVERN OVER NOTES HEREON, AND SPECIAL PROVISIONS SHALL GOVERN OVER ALL. SEE SPECIFICATIONS ARTICLE 103-4.

NO.	REVISIONS	DATE	BY
1	ISSUED FOR BID	06/02/22	ASA



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DATE 06/02/2022
KHA PROJECT 0121854010

STRUCTURAL
STANDARD NOTES

WILDMOOD PARK -
TOWER AND TRAILS
PACKAGE A
PREPARED FOR
CITY OF GREENVILLE
GREENVILLE

SHEET NUMBER
S.16A