

CIVIL ENGINEER

Rivers & Associates, Inc.
Greenville, NC



107 East Second Street
Greenville, NC 27858
(252) 752-4135

Contact: Matthew Prokop, PE
mprokop@riversandassociates.com

OWNER/DEVELOPER

City of Greenville
Recreation and Parks Department
PO Box 7207
Greenville, NC 27835

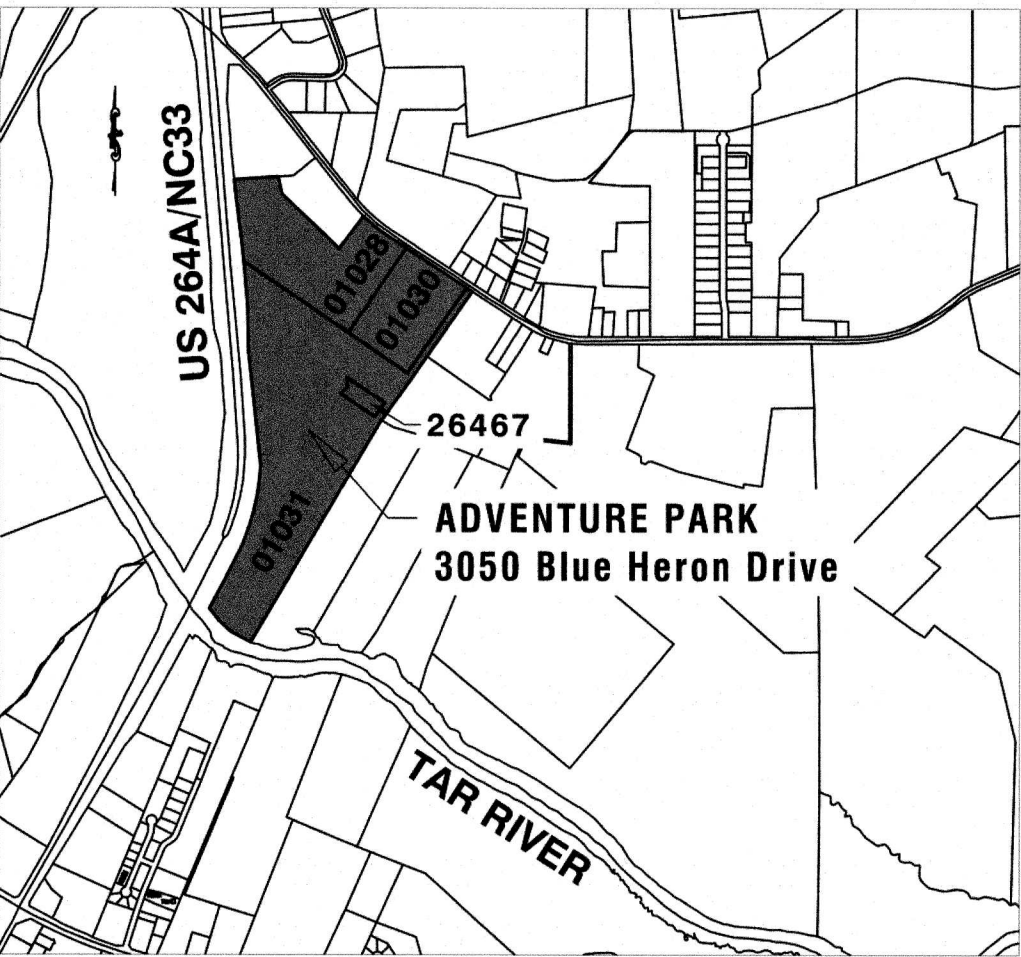
PO Box 7207
Greenville, NC 27835
(252) 329-4242
ontact: Mark Nottingham
MNottingham@greenvillenc.com

SITE DEVELOPMENT PLANS FOR
Adventure Park

SITE DATA	
PROJECT INFO:	City of Greenville -- Adventure Park
ADDRESS:	3050 Blue Heron Drive
MUNICIPALITY:	City of Greenville
NC PIN:	4698712722
PARCEL NUMBER:	01031, 26467, 01028 & 01030
LAND USE CLASSIFICATION:	2 (6 - recreational/entertainment, f. - Public park or recreational facility)
DEED REFERENCE:	MB 24-125
LOT AREA:	97.33 Acres
ZONING:	CH - Heavy Commercial
ADJACENT ZONING:	RA20 - Residential Agricultural, CH - Heavy Commercial
PROPOSED USE:	Noncommercial park/recreation facility: Public Use
PROPOSED GROSS FLOOR AREA:	1,488 SF
BUILDING HEIGHT:	25'-0" (1-Story)
IMPERVIOUS AREAS	
LOT AREA:	4,239,695 SF
EXISTING IMPERVIOUS:	48,397 SF
GRAVEL:	62,643 SF
CONCRETE:	10,232 SF
TOTAL IMPERVIOUS:	72,875 SF
LOT COVERAGE:	1.7%
MINIMUM BUILDING LINE	Minimum
PUBLIC STREET:	20'
SIDE:	10'
REAR:	10'
BUFFERYARD	Minimum / Notes
STREET	10' - Type 'A' - lot size over 175,000 square feet
SIDE	10' - Type 'C'
PARKING SUMMARY	
REQUIRED:	1 parking space per 500 sf of building 3 @ 9000 sf buildings = 27,000 sf. 27,000 / 500 sf = 54 required spaces
PROVIDED:	60 (incl. 4 H/C)

GENERAL NOTES:

- NO CHANGES TO ANY ASPECT OF THIS SITE PLAN, INCLUDING BUT NOT LIMITED TO, LANDSCAPING, GRADING, BUILDING ELEVATIONS, LIGHTING OR UTILITIES WILL BE MADE WITHOUT THE APPROVAL OF THE DEPARTMENT OF PLANNING AND DEVELOPMENT SERVICES DEPARTMENT.
- THE SITE SHALL BE STABILIZED AND SEEDED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- A PRE-INSTALLATION CONFERENCE BETWEEN THE LANDSCAPE CONTRACTOR AND THE PLANNING DEPARTMENT STAFF SHALL BE SCHEDULED AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO LANDSCAPING INSTALLATION.
- ALL REQUIRED IMPROVEMENTS SHALL COMPLY WITH THE STANDARDS OF THE CITY OF GREENVILLE UNIFIED DEVELOPMENT ORDINANCE (UDO).
- ANY FUTURE ELECTRIC SERVICE SHALL BE PROVIDED UNDERGROUND.
- PROPOSED DEVELOPMENT WILL NOT CONTAIN WATER OR SEWER SERVICE. ANY FUTURE WATER/SEWER SERVICE TO BE PROVIDED BY OTHERS



VICINITY MAP

Sheet Index	
Sheet Number	Sheet Title
C1	COVER
C2	EXISTING CONDITIONS - PARKING LOT AND DOCK AREA
C3	EXISTING CONDITIONS - CAMPING PLATFORM
C4	DEMOLITION AND EROSION CONTROL
C5	EROSION CONTROL NOTES AND DETAILS
C6	EROSION CONTROL NOTES
C7	SITE & LANDSCAPING PLAN
C8	GRADING AND UTILITY PLAN
C9	GRADING DETAILS - DOCK AREA AND SIDEWALK
C10	PROPOSED PRIMITIVE TRAIL LAYOUT
C11	SITE DETAILS
C12	SITE DETAILS
S1.0	FOUNDATION PLAN
S1.1	CAMPING PLATFORM PLANS AND ELEVATION
S1.2	CAMPING PLATFORM NOTES, DETAILS AND SECTIONS

City of Greenville Site Plan Approval	
Date _____	
☐ Approved	☐ Approved as Noted
Zoning	Engineering
Surveyor/Floodplain	Inspections
Fire/Rescue	GUC electric
GUC water/sewer	GUC gas
NCDOT	Vegetation
Traffic Services	Notes

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

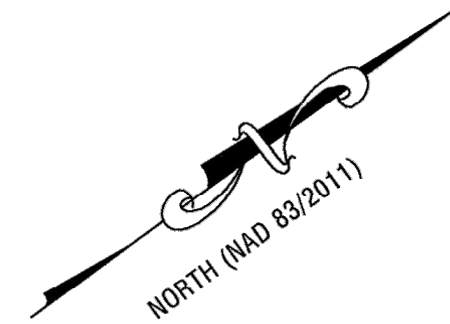


REVISIONS:			
NO.	DESCRIPTION	DATE	BY
2	CITY REVIEW COMMENTS	10/6/20	MJP
1	CITY REVIEW COMMENTS	9/4/2020	MJP

CITY OF GREENVILLE
ADVENTURE PARK
PITT COUNTY - NORTH CAROLINA
COVER

DATE: AUGUST 7, 2020
DESIGNED BY: MJP
DRAWN BY: SBC
CHECKED BY: JDV
PROJECT No. 2017115.14
DRAWING No. WV-3896
SCALE: AS NOTED

SHEET No.
C1

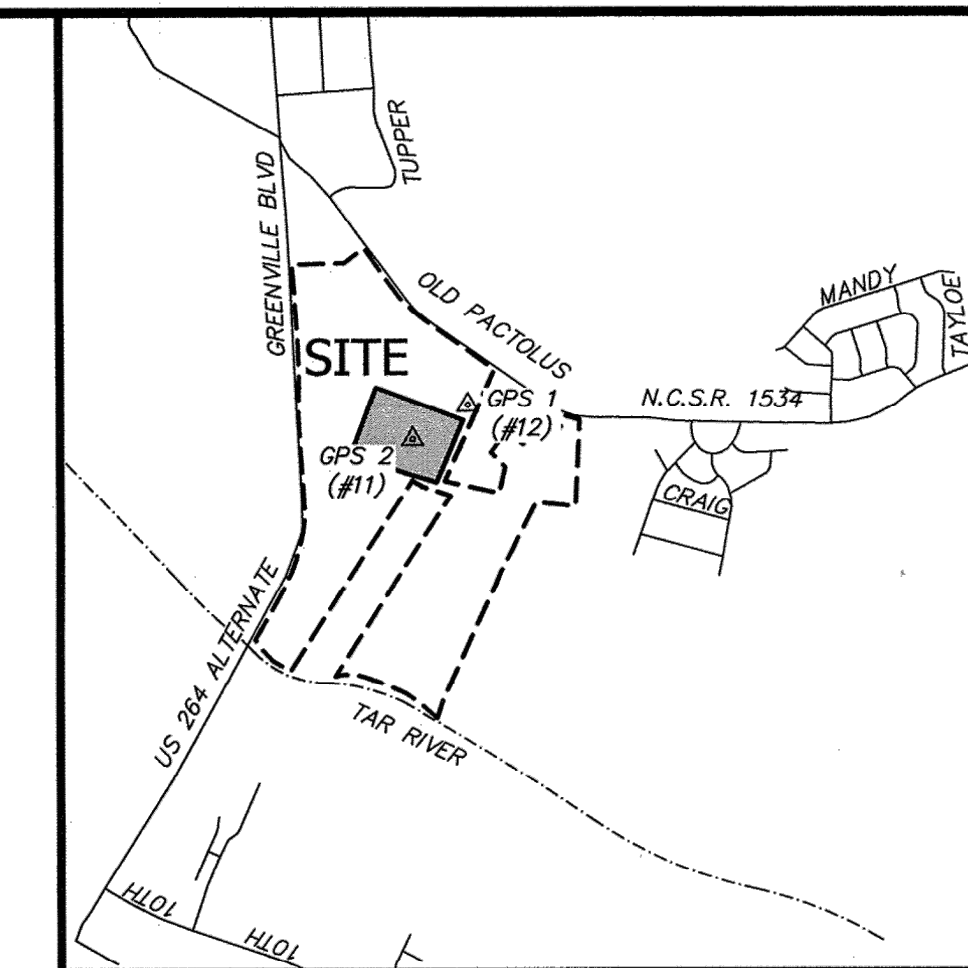
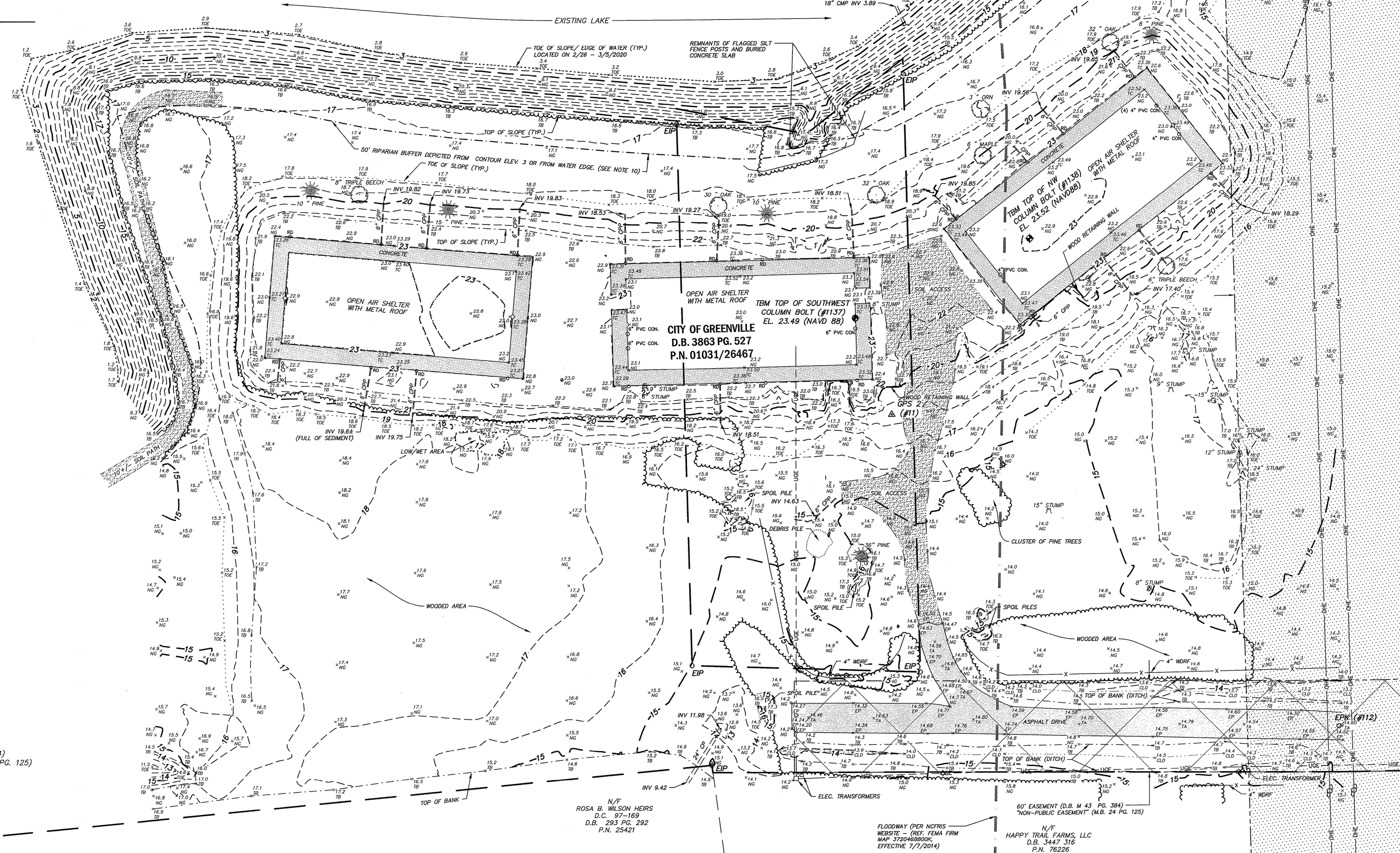


NOTES

- ALL DISTANCES ARE HORIZONTAL MEASUREMENTS.
- NO POINTS SET UNLESS OTHERWISE INDICATED.
- THIS PROPERTY IS LOCATED WITHIN FEMA FLOODWAY AND A "ZONE AE" (AREAS DETERMINED TO BE INSIDE THE 1% ANNUAL CHANCE FLOODPLAIN), AS DETERMINED FROM FIRM MAP NUMBER 372046800K, EFFECTIVE JULY 7, 2014. BASE FLOOD ELEVATIONS = 20.3 FEET +/- (NAVD88)
- ELEVATIONS AND CONTOURS SHOWN ARE BASED ON NAVD88 DATUM. VERTICAL CONTROL ESTABLISHED FROM MULTIPLE NCGRS RTN OBSERVATIONS (CLASS C).
- THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE COMMITMENT REPORT. RIVERS AND ASSOCIATES DOES NOT CLAIM THAT ALL MATTERS OF RECORD WHICH MAY OR MAY NOT AFFECT THIS PROPERTY ARE SHOWN HEREON.
- PROPERTY SUBJECT TO ANY AND ALL EASEMENTS, RIGHTS OF WAY, RESTRICTIVE COVENANTS WHICH MAY BE OF RECORD.
- UTILITIES: UNDERGROUND UTILITIES PLOTTED FROM PRIOR SURVEYS AND MAPS PROVIDED BY OTHERS AS NOTED. ACTUAL LOCATIONS MAY VARY. OTHER UTILITIES MAY EXIST. SURVEYOR CANNOT PROVIDE ACCURACY OF UNDERGROUND UTILITIES. CONTRACTOR SHOULD CONTACT NC811 AT 1-800-632-4949 TO HAVE UNDERGROUND UTILITIES LOCATED PRIOR TO EXCAVATING OR TRENCHING. NC811 TICKETS: NO TICKETS WERE REQUESTED.
- UTILITIES: THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN ARE COMPRISED OF ALL SUCH UTILITIES IN THE AREA OF SURVEY EITHER IN SERVICE OR ABANDONED. THE SURVEY FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE SURVEYOR DOES HEREBY CERTIFY THAT ALL UTILITIES ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY UNCOVERED AND LOCATED ANY UNDERGROUND UTILITIES.
- PIPE INVERTS SHOWN HEREON WERE OBTAINED WITHOUT CONFINED SPACE ENTRY BY THE MOST PRACTICAL METHODS AVAILABLE TO THE SURVEYOR.
- SITE HAS NOT BEEN EVALUATED BY ENVIRONMENTAL SPECIALIST FOR ENVIRONMENTALLY SENSITIVE CONCERNS. RIPARIAN BUFFER LOCATION IS SURVEYOR'S INTERPRETATION OF INFORMATION PROVIDED BY THE CITY OF GREENVILLE. THE LOCATION MAY CHANGE BASED ON ENVIRONMENTAL SPECIALIST'S SITE REVIEW. PITT COUNTY HEALTH DEPARTMENT ENVIRONMENTAL HEALTH PERMIT 1581-B9 FOR SEPTIC IS ASSOCIATED WITH PARCEL 26467. NO PERMIT ON FILE FOR PARCEL 01031
- DUE TO CLEARING, GRUBBING, EROSION AND HEAVY EQUIPMENTS LAND DISTURBANCE, SITE CONTOURS MAY EXCEED THE 1/2 FOOT ALLOWABLE ERROR.

LEGEND

	CONTOURS
	DEPRESSED CONTOUR
	BOUNDARY LINE
	EASEMENT LINE
	FLOODWAY (PER NC811 WEBSITE)
	EDGE OF SOIL DRIVE/PATH
	OVERHEAD ELECTRIC LINE
	UNDERGROUND ELECTRIC LINE
	FENCE
	TOE OF SLOPE/BANK (DITCH)
	TOP OF SLOPE/BANK (DITCH)
	CENTERLINE OF DITCH/SWALE
	STORM DRAINAGE
	WOODS LINE
	EDGE OF WATER
	EDGE OF SPOIL PILE
	EDGE OF DEBRIS PILE
	RIPARIAN BUFFER LINE
	NOW OR FORMERLY DEED BOOK
	MAP BOOK
	PAGE
	ELEVATION
	INVERT
	TYPICAL
	CONCRETE PIPE
	CORRUGATED PLASTIC PIPE
	CORRUGATED METAL PIPE
	CONDUIT
	POLY-VINYL CHLORIDE
	ELECTRIC
	WOOD RAIL FENCE
	ORNAMENTAL TREE
	BRADFORD PEAR TREE
	EXISTING IRON PIPE
	OUTSIDE DIAMETER
	TEMPORARY BENCHMARK
	GPS CONTROL POINT
	POWER POLE
	LIGHT POLE
	CARSONITE POWER LINE MARKER
	TREE STUMP
	ROOF DRAIN
	NATURAL GROUND
	TOP OF SLOPE/BANK (DITCH)
	TOE OF SLOPE/BANK (DITCH)
	CENTERLINE OF DITCH
	EDGE OF PAVEMENT
	TOP OF ASPHALT
	TOP OF CONCRETE
	EXISTING TREES
	CONCRETE
	ASPHALT
	60' EASEMENT (D.B. M 43 PG. 384) 'NON-PUBLIC EASEMENT' (M.B. 24 PG. 125)
	120' CAROLINA POWER AND LIGHT EASEMENT (DB 696 PG. 437)
	SOIL ACCESS



VICINITY MAP
NOT TO SCALE

REFERENCES:

P.N. 26467
P.N. 01031
D.B. 3863 PG. 527
M.B. 22 PG. 25
M.B. 24 PG. 125
D.B. M 43 PG. 384
D.B. 696 PG. 437
M.B. 60 PG. 174

40' 0 20' 40'
SCALE 1 inch = 40 ft

NORTH CAROLINA COUNTY OF PITT
I, PATRICK HARTMAN, P.L.S., CERTIFY THAT THE EXISTING TOPOGRAPHIC AND PLANIMETRIC INFORMATION SHOWN HEREON WAS DRAWN UNDER MY DIRECTION FROM AN ACTUAL SURVEY MADE BY RB/JA FROM 2/25/2020 - 3/10/2020. BOUNDARIES NOT SURVEYED ARE SHOWN AS BROKEN LINES FROM INFORMATION FOUND IN THE REFERENCED BOOKS AND PAGES. THAT THE RATIO OF PRECISION IS 1:10,000+; AND IN ACCORDANCE WITH THE US NATIONAL MAPPING ACCURACY STANDARDS, THE MAXIMUM VERTICAL ERROR IS NOT GREATER THAN ONE HALF THE CONTOUR INTERVAL EXCEPT AS NOTED (SEE NOTE 11); AND HORIZONTAL AND VERTICAL CONTROL WAS ESTABLISHED AT THE SITE BY NCGRS RTN SOLUTION.

- | | |
|-------------------------------------|----------------------------------|
| 1) CLASS OF SURVEY: | CLASS A (HORIZ.) CLASS C (VERT.) |
| 2) POSITIONAL ACCURACY: | 2 CM (HORIZ.) |
| 3) TYPE OF GPS FIELD PROCEDURE: | NCGRS RTN |
| 4) DATE OF SURVEY WORK: | 2/25/2020-03/10/2020 |
| 5) DATUM/EPOCH: | NAD83/2011 |
| 6) PUBLISHED CONTROL/FIXED CONTROL: | NCGRS RTN OR AS NOTED |
| 7) GEOID MODEL: | 2012B |
| 8) COMBINED GRID FACTOR: | 0.999897300602 |
| 9) UNITS: | US SURVEY FEET |

WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER AND SEAL THIS 16TH DAY OF MARCH, 2020.

Patrick Hartman
PROFESSIONAL LAND SURVEYOR LICENSE NO. L-4262

SURVEY HORIZONTAL CONTROL

POINT	NORTHING (US FT-GROUND)	EASTING (US FT-GROUND)	ELEVATION (NAVD88)	DESCRIPTION	GRID NORTHING (US FT-NAD 83/2011)	GRID EASTING (US FT-NAD 83/2011)
11	682164.21	2497987.90	18.43	CPNAIL (GPS2)	682164.21	2497987.90
12	682850.52	2498738.65	16.16	CPNAIL (GPS1)	682850.44	2498738.56
1112	682281.79	2498325.71	14.64	EPK		

PROJECT CONTROL LOCALIZED TO GROUND AROUND POINTS 11 (GPS 2); CALCULATED COMBINED FACTOR = 0.999897300602.

SURVEY VERTICAL CONTROL

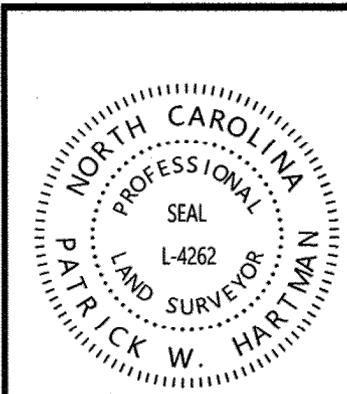
POINT	NORTHING (US FT-GROUND)	EASTING (US FT-GROUND)	ELEVATION (NAVD88)	DESCRIPTION
1137	682182.0	2497922.6	23.49	TBM TOP SW COLUMN BOLT
1138	682305.5	2497947.4	23.52	TBM TOP NW COLUMN BOLT

OWNER

CITY OF GREENVILLE
P.O. BOX 7207
GREENVILLE, NC 27804

EXISTING CONDITIONS

AS SHOWN ON 2016047
DATE 3/16/2020
DESIGN SURVEY RB/JA DRAFT PH/MS
CHECK PHH



NC License: F-8394
Rivers
& ASSOCIATES, INC.
riversandassociates.com Since 1918
Landscape Architects
107 East Second Street
Greenville, NC 27858
(252) 752-4135

TOPOGRAPHIC SURVEY FOR
CITY OF GREENVILLE
OF
A PORTION OF THE FUTURE
WILDSIDE PARK
CITY OF GREENVILLE, PACTOLUS TOWNSHIP, PITT COUNTY, NC

DRAWING NO. W-3879 PROJECT NO. 2017115.14 SHEET 1 OF 1

Scanned 2/23/2020

SWALE CALCULATIONS for Temporary Swale 2

Adventure Park

Greenville, NC

Swale 2 in temporary condition

Outlet Based on 10 year storm

Total watershed area (Ac)		1.81													
Land Type		Rational C		CN		Acres									
Area Impervious		0.9		98		1,060									
Detached with temporary seeding		0.25		73		0,640									
Total watershed area		0.67		101		1,610									
Composite		0.67													
Hydraulic Length (ft)		--		Channelized		63									
Vertical Relief (ft)		--		30		0.30									
Time of Concentration															
$T_c = \frac{L^{0.77}}{S^{0.04}}$		Overland		Channelized		Total									
Time (min)		2		2		5.50									
$T_c = \frac{L^{0.77}}{S^{0.04}}$		Travel Factor		2		0.2									
Rational Intensity		$I = (p+1)^2$		8.0 in/hr		37 cfs									
Peak Exchange =		$Q = I \times A$		3.0 in/hr		1.35 cfs									
Right Side Slope		Left Side Slope		n=		Slope		Channel Velocity							
3.00		3.00		0.028		0.48%		3.55 fps							
Flow Depth		0.32 ft													
Traction Force															
T=9 Yds (Silt)		0.098		Use Temporary Liner		T=		0.045 lb/sft							

SWALE CALCULATIONS for Temporary Swale 2

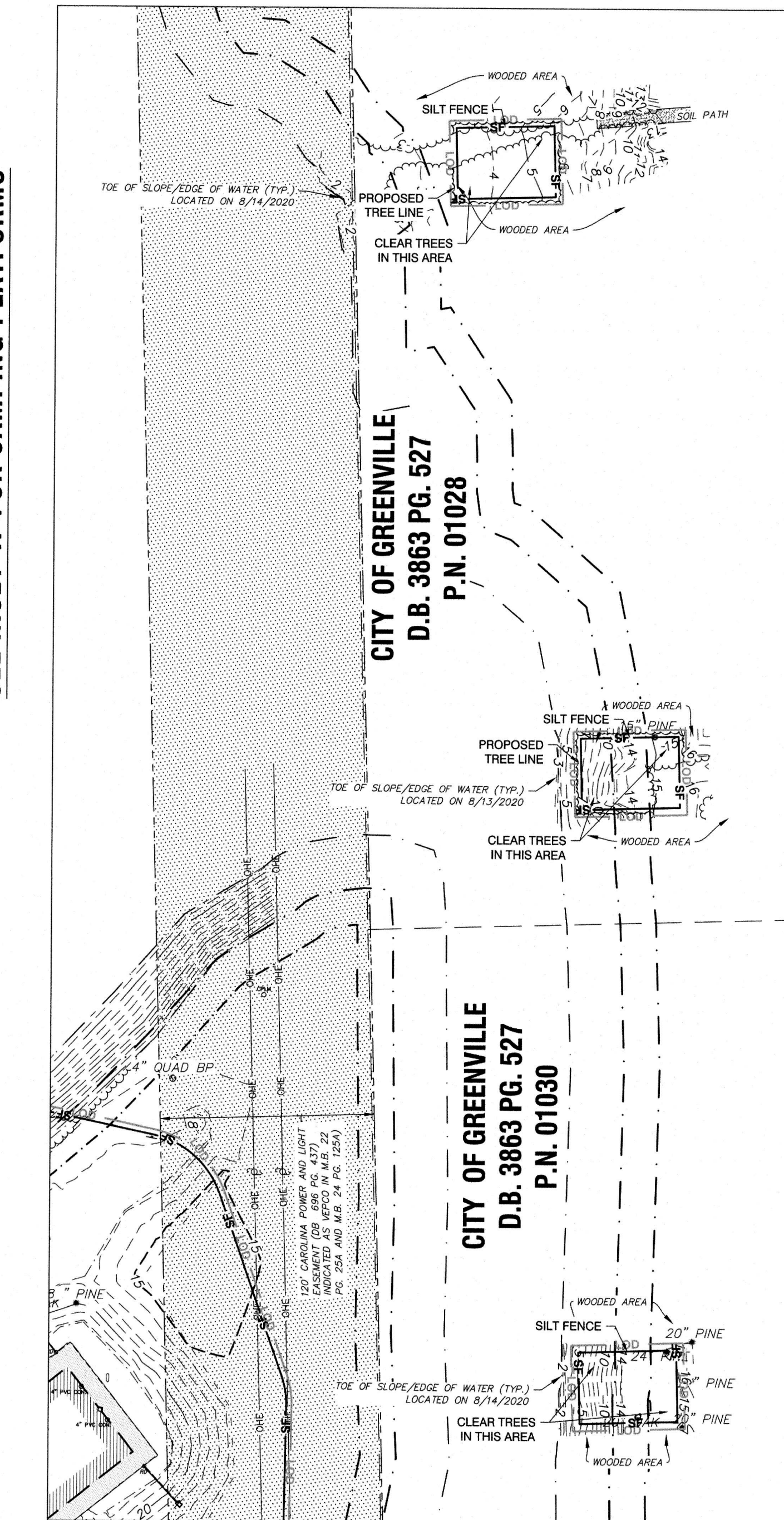
Adventure Park
Greenville, NC

Swale 2 in temporary condition

Outlet Based on 10 year storm

Total watershed area (Ac)		1.81														
Land Type		Rational C	CN	Acres												
Area Impervious		0.9	98	1,060												
Detached with temporary seeding		0.25	73	0,460												
Total watershed area				1,510												
Composite		0.67														
		Overland														
Channelized																
Hydraulic Length (ft)	--	63														
Vertical Relief (ft)	--	0.30														
Time of Concentration																
		Overland	Channelized	Total												
$T_o = \frac{L^2}{48}$	Time (min)	5.50														
$T_o = 1.48 \frac{L}{S^{0.5}}$	Travel Factor	2	0.2													
Rainfall Intensity = $I = \frac{C_u}{C_d} \cdot I_a$		8.0 in/hr														
Peak Exchange = $Q = 2.48 \cdot I \cdot A$		3.7 cfs														
Right Side Slope	Left Side Slope	n=	Slope	Channel Velocity	Flow Depth											
3.00	3.00	0.028	0.46%	3.55 fps	0.32 ft											
Traction Force					Use temporary lining											
Tot Yds (Solid)		0.096		Julie Net	Td=			0.045 lb/ft								

	LIMITS OF DISTURBANCE
	SILT FENCE PHASE 1
	SILT FENCE PHASE 2
	TEMPORARY SWALE
	ROCK INLET SEDIMENT TRAP
	SILT FENCE OUTLET
	STOCKPILE AREA



1. CONTACT NO ONE-CALL (1-800-254-9499) TO HAVE ALL UNDERGROUND UTILITIES LOCATED PRIOR TO EXCAVATING OR TRENCHING
2. PRE-CONSTRUCTION CONFERENCE MUST BE HELD WITH CITY OF GREENVILLE ENGINEERING DIVISION AND GREENVILLE UTILITIES COMMISSION WATER RESOURCES DEPARTMENT PRIOR TO BEGINNING WORK
3. INSTALL EROSION AND SEDIMENTATION CONTROL MEASURE PRIOR TO INITIATING ANY LAND DISTURBING ACTIVITIES, INCLUDING DEMOLITION
4. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL AND STATE PERMITS REQUIRED FOR DEMOLITION WORK
5. CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND/OR ENGINEER FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES IN THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON DEMOLITION WORK FOR THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
7. ALL DEMOLITION WASTE AND CONSTRUCTION DEBRIS SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF IN A STATE-APPROVED WASTE SITE AND IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL CODES AND PERMIT REQUIREMENTS.
8. THE BURNING OF CLOTHED MATERIALS AND DEBRIS SHALL NOT BE ALLOWED UNLESS CONTRACTOR GETS WRITTEN AUTHORIZATION FROM THE LOCAL AUTHORITIES.
9. ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIALS CONTRACTOR. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY IF HAZARDOUS MATERIALS ARE ENCOUNTERED.
10. CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS AND BENCHMARKS DURING DEMOLITION ACTIVITIES. IF DISTURBED, CONTRACTOR SHALL HAVE DISTURBED ITEMS RESET BY A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.
11. CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, FEDERAL, AND OSHA REGULATIONS WHEN OPERATING DEMOLITION EQUIPMENT AROUND UTILITIES.
12. CONTRACTOR SHALL PROTECT AT ALL TIMES ADJACENT STRUCTURES AND ITEMS FROM DAMAGE DUE TO DEMOLITION ACTIVITIES.
13. THE CONTRACTOR AND ALL SUB-CONTRACTORS SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THAT PAINTS, LIQUID WASTES, HAZARDOUS MATERIALS, CONCRETE AND SEDIMENT DO NOT ENTER STREAMS OR STORM DRAINS OR HAVE CONTACT WITH SURFACE WATERS, WETLANDS OR BUFFERS. FAILURE TO DO SO WILL BE CONSIDERED A VIOLATION OF THE NIDES GENERAL PERMIT NCGO/10000 FOR CONSTRUCTION ACTIVITIES AND MAY RESULT IN STATE OR FEDERAL CIVIL OR CRIMINAL PENALTIES.

CITY OF GREENVILLE
ADVENTURE PARK
PITT COUNTY – NORTH CAROLINA

DEMOLITION AND EROSION CONTROL

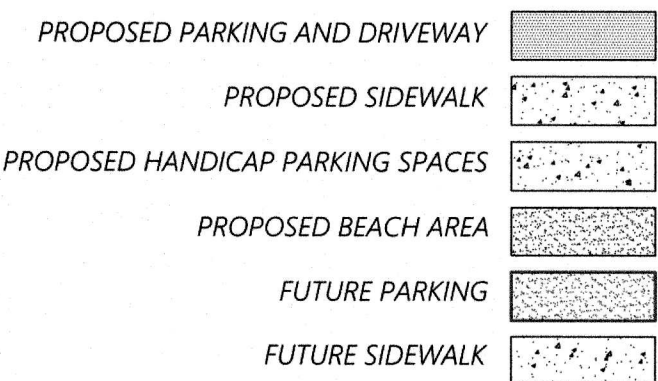
C4

CITY OF GREENVILLE PLANTING NOTES:

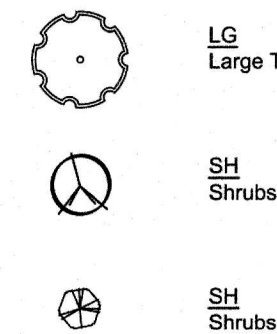
1. SITE DATA:
LAND AREA FOR VEGETATION REQUIREMENTS - 6.99 AC
ZONING: CH - HEAVY COMMERCIAL
A. REQUIRED VEGETATION: THE EXISTING SITE IS WOODED. TREE REQUIREMENTS ARE SATISFIED BY EXISTING TREES THAT WILL REMAIN.
LARGE TREES (5 /AC) 6.99 x 5 = 35 35 REQ. / 35+ EXISTING
SMALL TREES (10 /AC) 6.99 x 10 = 70 70 REQ. / 70+ EXISTING
SHRUBS (25 /AC) 6.99 x 25 = 175 175 REQ. / 175+ EXISTING
B. REQUIRED STREET VEGETATION (2 LARGE TREE / 100 LF); STREET TREE REQUIREMENTS ARE SATISFIED BY EXISTING TREES THAT WILL REMAIN.
NE GREENVILLE BLVD. 3860 LF 77 REQ. / 77+ EXISTING
OLD PACTOLUS RD. 60 LF 1 REQ. / 1+ EXISTING
C. REQUIRED BUFFERYARD VEGETATION: THIS PROJECT ONLY IMPACTS APPROXIMATELY 550 LF OF BUFFERYARD, LOCATED ON THE EASTERN PROPERTY LINE AND IS LIMITED TO THE LIMITS OF DISTURBANCE.
10' BUFFERYARD "C": 3 LARGE EG TREES, 4 SMALL EG TREES & 16 EG SHRUBS PER 100 LINEAR FEET
NORTH PROPERTY LINES: 550 LF TOTAL / 100 = 5.5 - 6
LARGE EG TREES 6 x 3 = 18 REQ.
SMALL EG TREES 8 x 4 = 24 REQ.
EG SHRUBS 8 x 16 = 96 REQ.

2. NOTES
A. MINIMUM PLANT SIZES SHALL BE IN ACCORDANCE WITH THE ZONING REGULATIONS AS FOLLOWS:
PLANTING MATERIAL TYPE MINIMUM PLANTING SIZE
LARGE TREE 10' (HEIGHT) AND 2" CALIPER
SINGLE STEM
MULTI-STEM CLUMP 10' (HEIGHT)
SMALL TREE 8' (HEIGHT) AND 1-1/2" CALIPER
SHRUB 18" (HEIGHT), EXCEPT AS PROVIDED UNDER §9-4-267(A)

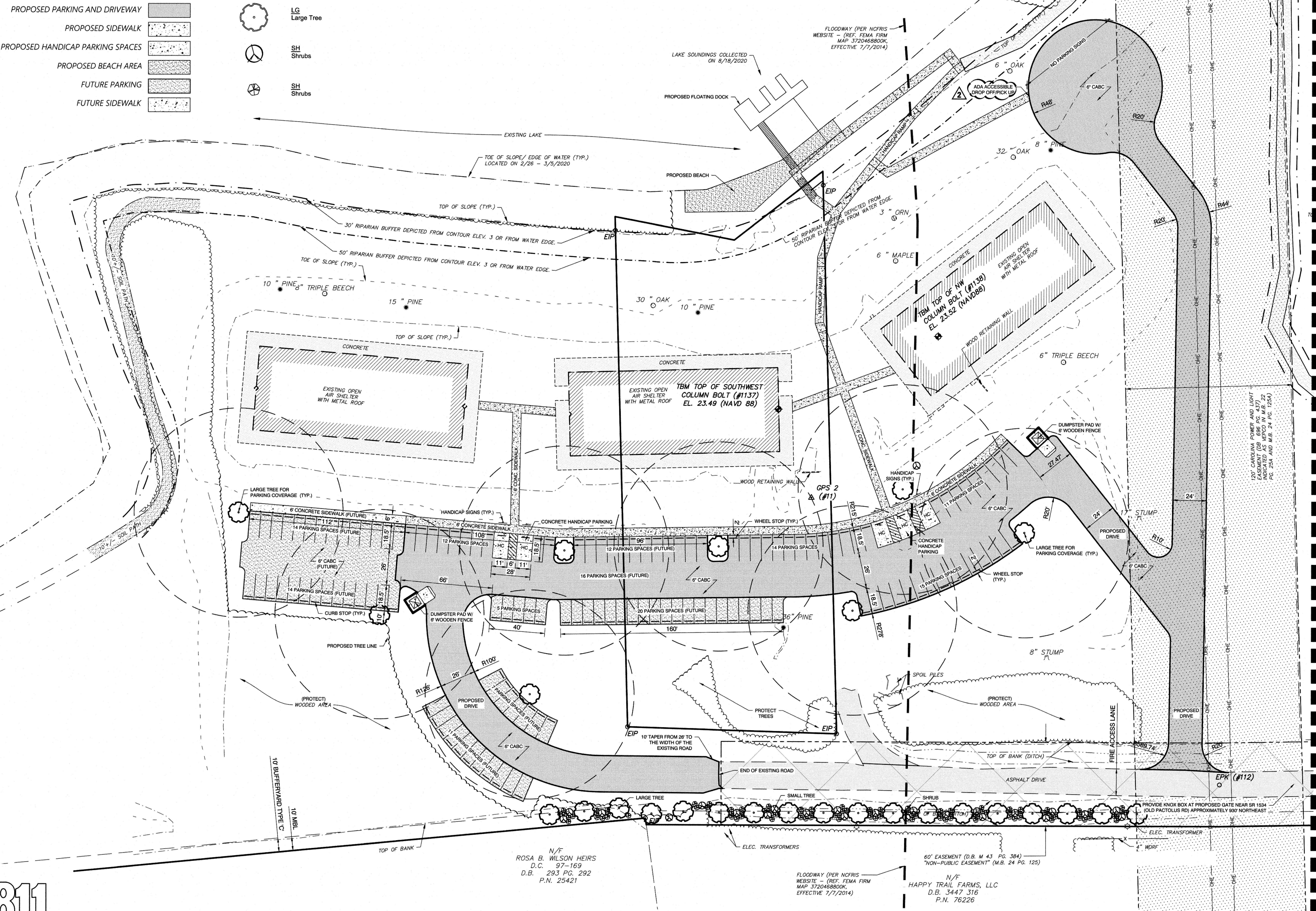
LEGEND :



PLANTING SCHEDULE:



- B. ALL REQUIRED PLANT MATERIAL (LARGE TREES, SMALL TREES AND SHRUBS) LOCATED IN A SCREENING BUFFERYARD (C, D, E & F) SHALL BE EVERGREEN, EXCEPT WHERE A FENCE, EVERGREEN HEDGE OR BERM OPTION IS UTILIZED, THAN 25% OF REQUIRED PLANT MATERIAL MAY BE DECIDUOUS PER SEC. 9-4-266(A)(2)(i).
C. EXISTING VEGETATION TO BE VERIFIED AT TIME OF INSPECTION.
D. EXISTING SUBSTITUTE VEGETATION MATERIALS HAVE BEEN NOTED INCLUDING THEIR SPECIFIC LOCATION(S) AND ACREAGE.
E. EXISTING SUBSTITUTE MATERIAL SHALL BE PROTECTED FROM SITE DEVELOPMENT ACTIVITIES IN ACCORDANCE WITH §9-4-265(F), (IF APPLICABLE).
F. NO PORTION OF ANY PARKING AREA, INCLUDING ANY DRIVEWAY, PARKING SPACE, DRIVE ISLE, OR TURNING AREA, SHALL BE LOCATED MORE THAN THIRTY (30) FEET FROM AN ON-SITE SMALL TREE OR MORE THAN SEVENTY-FIVE (75) FEET FROM AN ON-SITE LARGE TREE. FOR PURPOSES OF THIS SECTION, THE MEASUREMENT SHALL BE FROM THE FARTHEST EDGE OF THE SUBJECT AREA TO THE CENTER OF THE BASE OF THE CLOSEST QUALIFYING TREE.
G. SITE PLAN APPROVAL FROM THE RESPECTIVE EASEMENT HOLDER SHALL BE CONSTRUED AS APPROVAL OF ALL NOTED ENCROACHMENTS AS SHOWN ON THIS PLAN.
H. THE FOLLOWING VEGETATION MATERIALS, AS LISTED BY COMMON NAME, SHALL CONSTITUTE NOT MORE THAN TWENTY-FIVE (25) PERCENT OF TOTAL REQUIREMENT FOR THE SPECIFIC CATEGORY:
LARGE TREE CATEGORY
RIVER BIRCH
SMALL TREE CATEGORY
ARISTOCOT PEAR, BRADFORD PEAR, CAPITOL PEAR, AND CLEVELAND SELECT PEAR
EVERGREEN SHRUB CATEGORY
RED TIP PHOTINIA
I. ALL GARBAGE/TRASH CONTAINERS, RECYCLING CENTERS OR COMPACTORS SHALL BE ENCLOSED ON THREE (3) SIDES IN ACCORDANCE WITH §9-4-268(H).
J. ALL PARKING AREAS SHALL BE SCREENED IN ACCORDANCE WITH §9-4-268(I), (B) OF THE CITY CODE. VEGETATION MATERIALS SHALL BE EVERGREEN.
K. A MINIMUM OF 3 FT. CLEARANCE MUST BE MAINTAINED AROUND ALL FIRE HYDRANTS IN ACCORDANCE WITH STATE FIRE CODE.
L. NO LARGE TREES TO BE PLANTED WITHIN GUT WATER OR SEWER OR ANY OTHER UTILITY EASEMENTS.

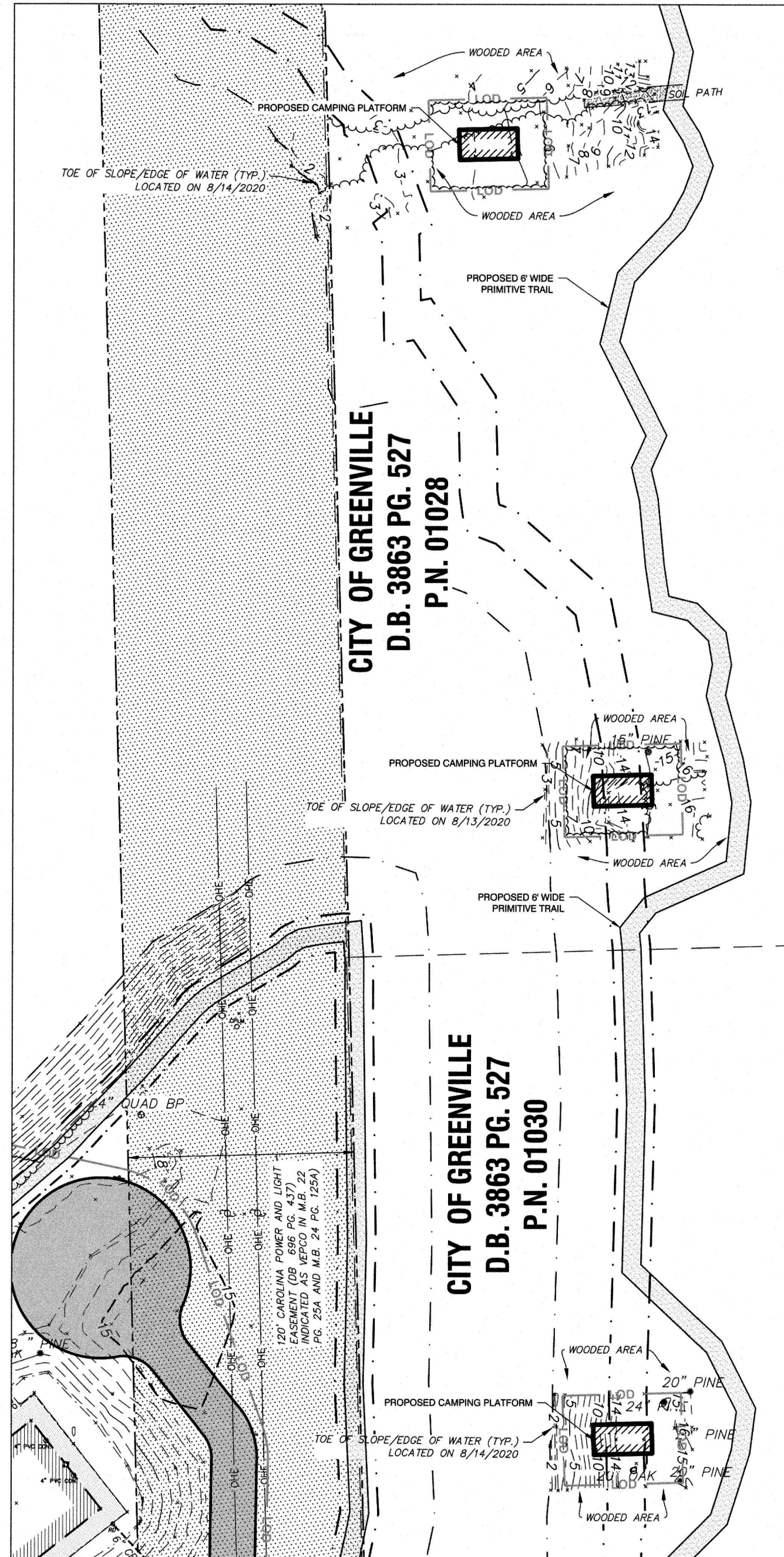


SEE INSET 'A' FOR CAMPING PLATFORMS

SITE DATA: SEE COVER SHEET C1

GENERAL NOTES:

- CONTACT NORTH CAROLINA ONE-CALL CENTER, INC. (NC-811) TO HAVE ALL UNDERGROUND UTILITIES LOCATED PRIOR TO EXCAVATING OR TRENCHING.
- ALL UTILITIES TO BE PROVIDED BY OTHERS
- ALL REQUIRED IMPROVEMENTS SHALL COMPLY WITH THE CITY OF GREENVILLE MANUAL OF STANDARD DESIGNS AND DETAILS AND THE MANUAL FOR THE DESIGN AND CONSTRUCTION OF WATER AND WASTEWATER SYSTEM EXTENSIONS FOR GREENVILLE UTILITIES COMMISSION.
- PROPERTY IS LOCATED IN A ZONE "AE" - FLOODWAY (AREA DETERMINED TO BE INSIDE REGULATORY FLOODWAY) AS IDENTIFIED BY FEMA FLOOD INSURANCE RATE MAP 3720468800K, EFFECTIVE JULY 7, 2014.
- REFUSE COLLECTION SHALL BE PROVIDED BY THE CITY OF GREENVILLE
- NO BUILDINGS, STRUCTURES OR OTHER IMPROVEMENTS, MATERIALS AND SURFACES, INCLUDING BUT NOT LIMITED TO PRINCIPLE AND ACCESSORY STRUCTURES AND ADDITIONS AND APPURTENANCES THERETO, SIGNAGE, FENCES, WALLS, MECHANICAL EQUIPMENT, CANOPIES, ANTENNAS, MASTS, DEBRIS, SOLID WASTE COLLECTION CONTAINERS, MAIL RECEPTACLES AND IMPERVIOUS SURFACES SHALL ENROACH WITHIN ANY DEDICATED EASEMENT WITHOUT PRIOR APPROVAL OF GREENVILLE UTILITIES.
- ALL DIMENSIONS ARE TO EDGE OF GRAVEL, UNLESS OTHERWISE NOTED.
- ALL RADII ARE 4' UNLESS OTHERWISE NOTED (U.O.N.).
- ANY PUBLIC INFRASTRUCTURE DAMAGED DURING THE COURSE OF CONSTRUCTION WILL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR AND/OR OWNER.
- SIGNAGE SHALL BE PER ARTICLE "N", GREENVILLE CITY CODE
- 8" CONCRETE, 4000 PSI W/ 6 GAUGE WIRE MESH FABRIC AT BOTH DUMPSTER LOCATIONS
- RECOMBINATION PLAT REQUIRED TO COMBINE PARCEL 26467 AND 01031 INTO A SINGLE PARCEL
- EXISTING TREES THAT ARE PROTECTED WILL COUNT FOR MINIMUM VEGETATION REQUIREMENTS.
- ALIGNMENT FOR PROPOSED 6' WIDE PRIMITIVE TRAIL PROVIDED BY CITY OF GREENVILLE (GPS DATA).
- EXISTING TREES ALONG OLD PACTOLUS ROAD (SR 1534) AND US 264 / NC 33 WILL BE PROTECTED. TREE REMOVAL IS LIMITED TO THE 6.99 ACRES OF DISTURBED AREA (SEE LIMITS OF DISTURBANCE SHEET C4).
- NC DOT DRIVEWAY PERMIT IS REQUIRED
- ALL SIGNS MUST CONFORM TO THE OUTDOOR ADVERTISING ACT OF NORTH CAROLINA
- ALL SIDEWALKS MUST BE ADA COMPLIANT



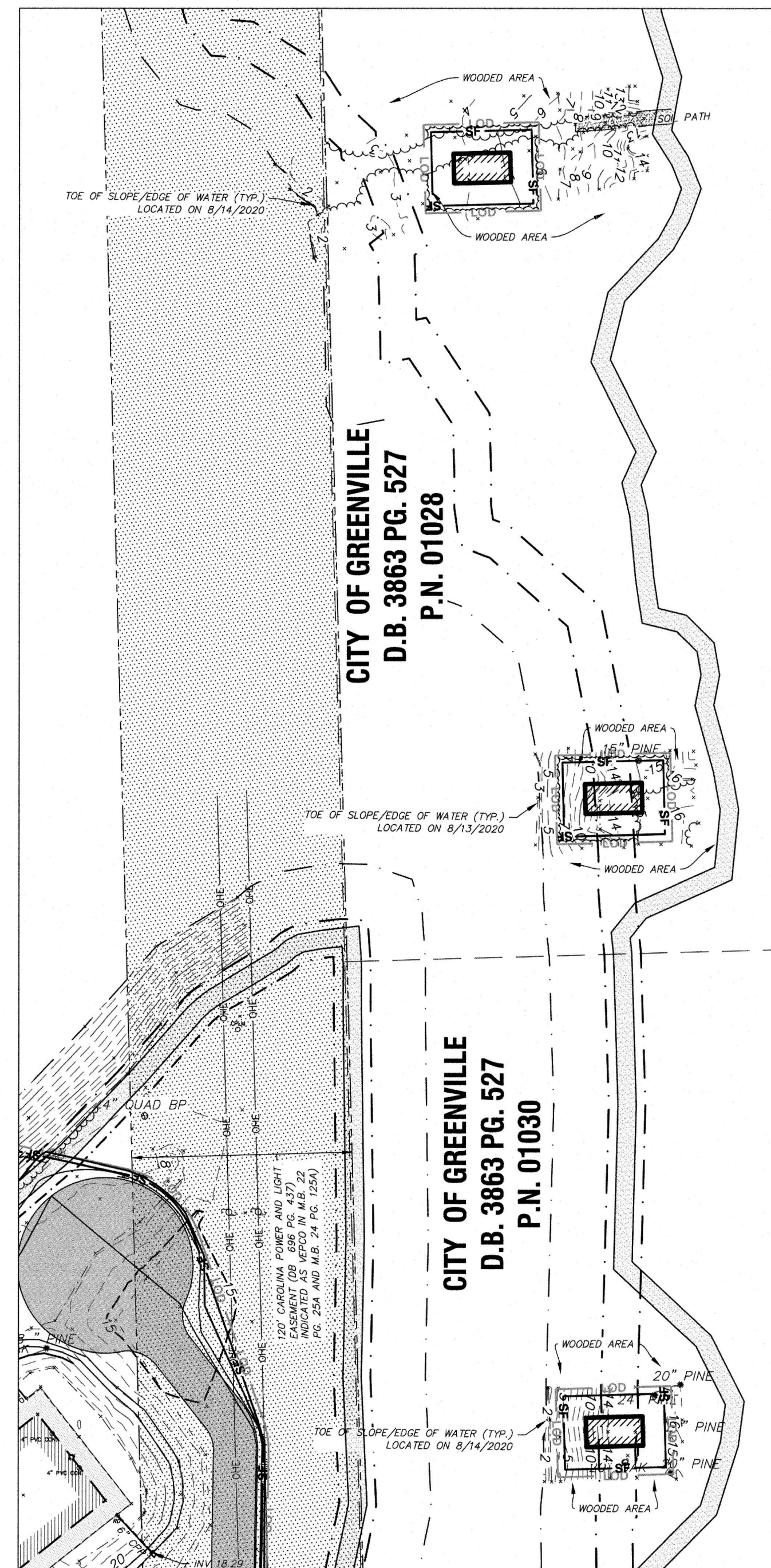
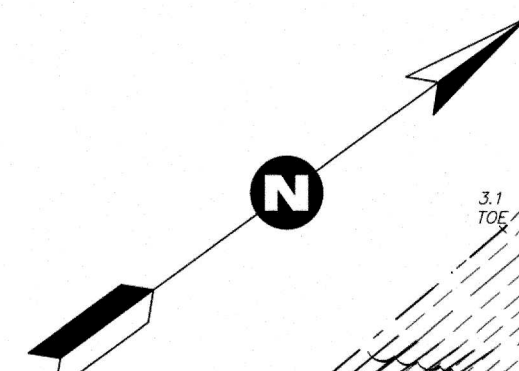
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Landscape Architects
107 East Second Street
Greenville, NC 27858
(252) 752-1135

North Carolina Professional Seal
Professional Engineer
No. 033861
Matthew J. Rivers

REVISIONS:	
NO.	DESCRIPTION
1	CITY REVIEW COMMENTS
2	CITY REVIEW COMMENTS

CITY OF GREENVILLE
ADVENTURE PARK
PITTS COUNTY - NORTH CAROLINA
SITE PLAN

DATE: AUGUST 7, 2020
DESIGNED BY: MJP
DRAWN BY: SBC
CHECKED BY: JDV
PROJECT No. 2017115.14
DRAWING No. W-3896
SCALE: AS NOTED
SHEET No. C7



SEE INSET 'A' FOR CAMPING PLATFORMS

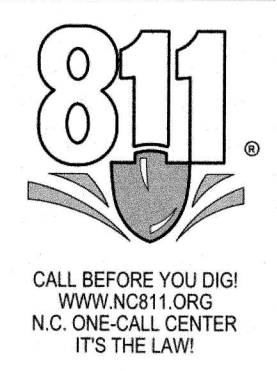
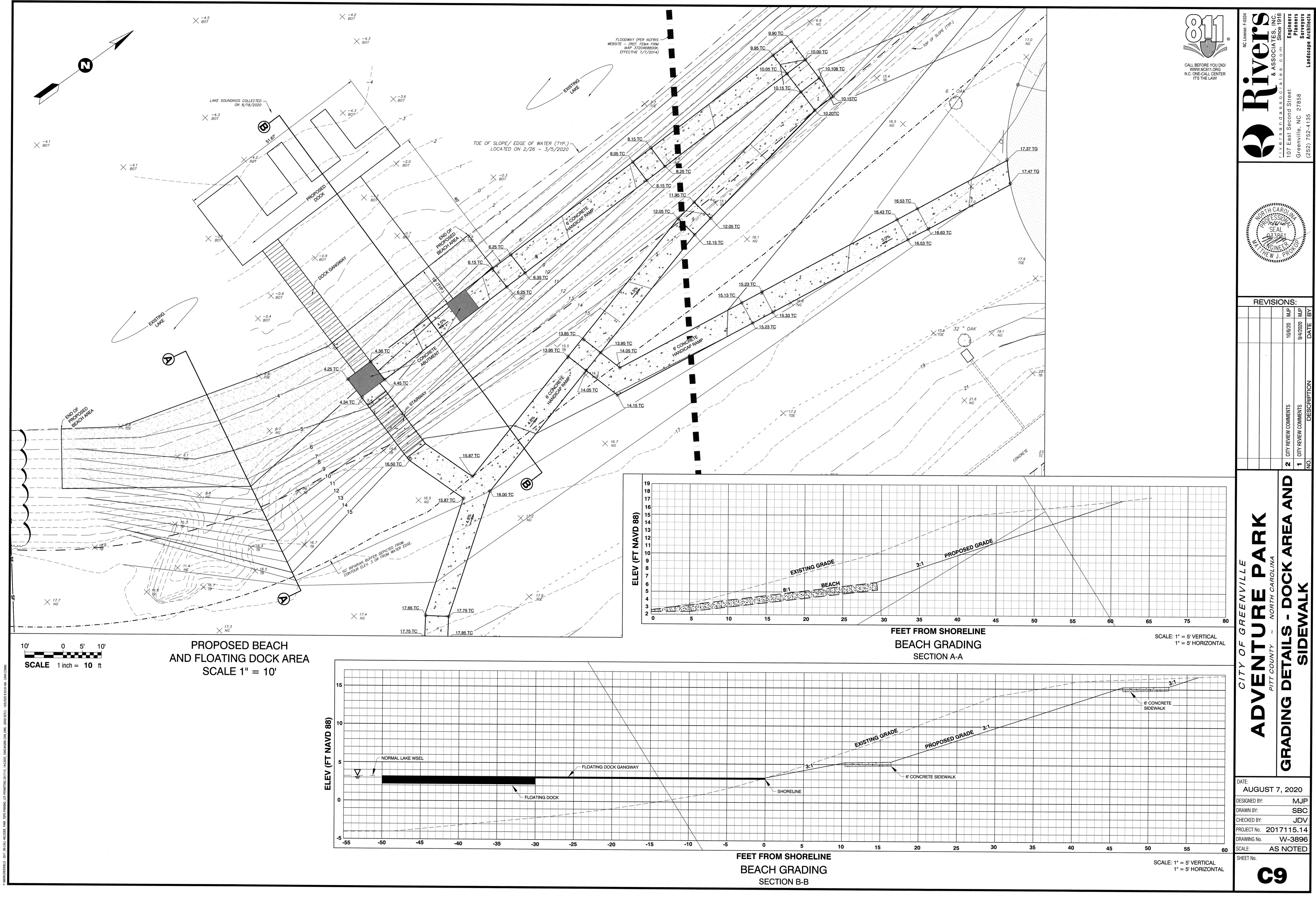
INSET 'A'

REVISIONS:			
NO.	DESCRIPTION	DATE	BY
2	QTY REVIEW COMMENTS	10/6/20	MP
1	QTY REVIEW COMMENTS	9/4/2020	MP

CITY OF GREENVILLE
ADVENTURE PARK
PITT COUNTY — NORTH CAROLINA

DATE:	AUGUST 7, 2020
DESIGNED BY:	MJP
DRAWN BY:	SBC
CHECKED BY:	JDV
PROJECT No.	2017115.14
DRAWING No.	W-3896
SCALE:	AS NOTED
SHEET No.	

C8



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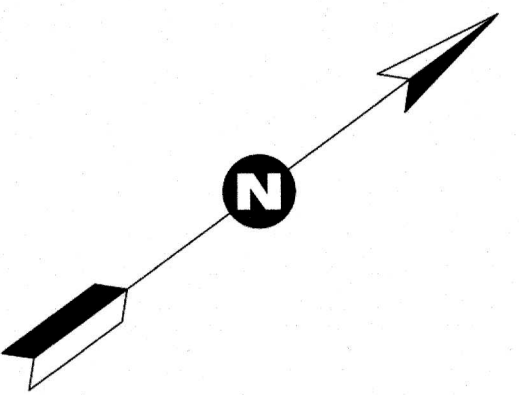
Engineers
Planners
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REVISIONS:			
NO.	DESCRIPTION	DATE	BY
2	CITY REVIEW COMMENTS	10/6/20	MJP
1	CITY REVIEW COMMENTS	9/4/2020	MJP

CITY OF GREENVILLE
ADVENTURE PARK
PITT COUNTY NORTH CAROLINA
GRADING DETAILS - DOCK AREA AND SIDEWALK

DATE: AUGUST 7, 2020
DESIGNED BY: MJP
DRAWN BY: SBC
CHECKED BY: JDV
PROJECT No. 2017115.14
DRAWING No. W-3896
SCALE: AS NOTED
SHEET No. **C9**



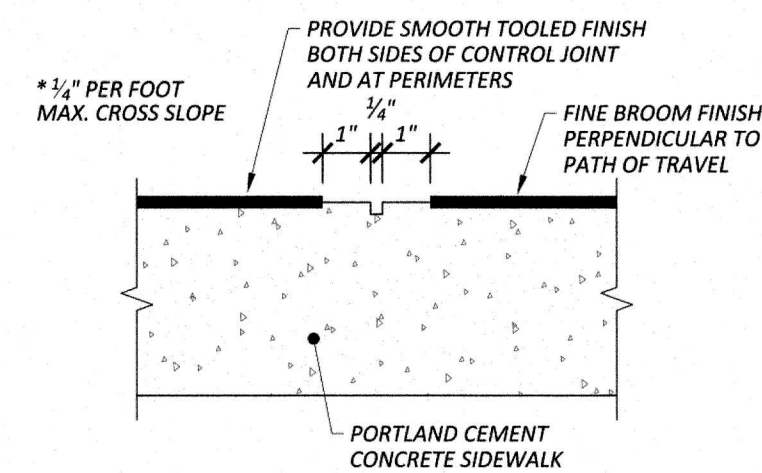
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N.C. ONE-CALL CENTER
IT'S THE LAW!

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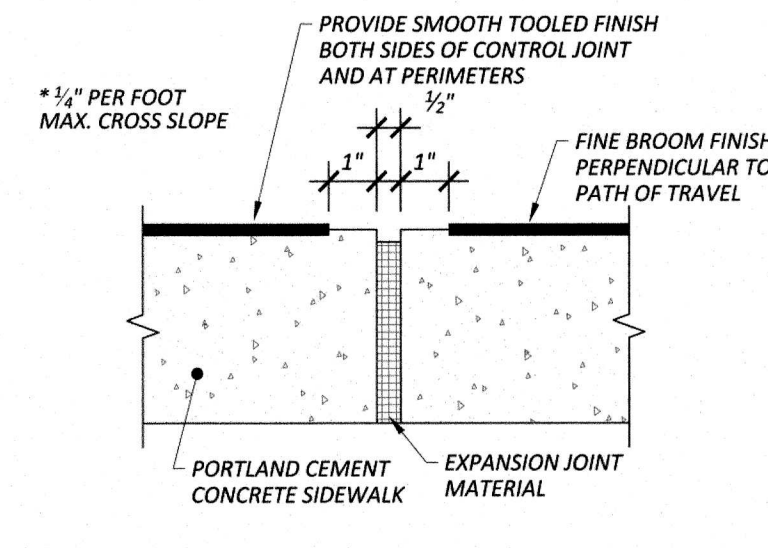
CITY OF GREENVILLE
ADVENTURE PARK
PITT COUNTY ~ NORTH CAROLINA

PROPOSED PRIMITIVE TRAIL LAYOUT

C10



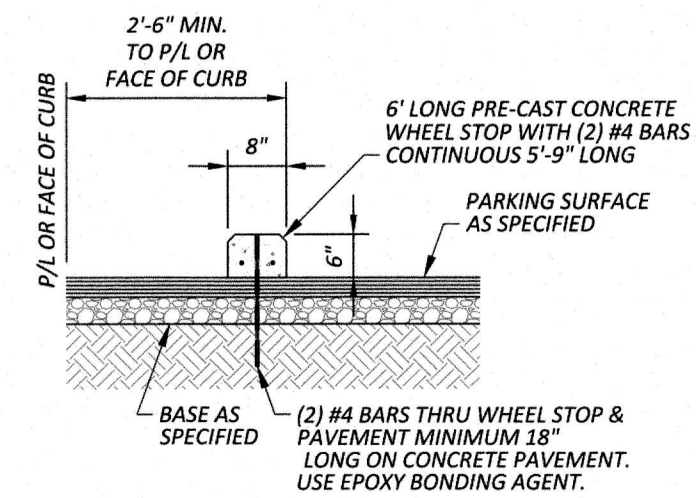
NTS



NT:

8 SIDEWALK JOINTS

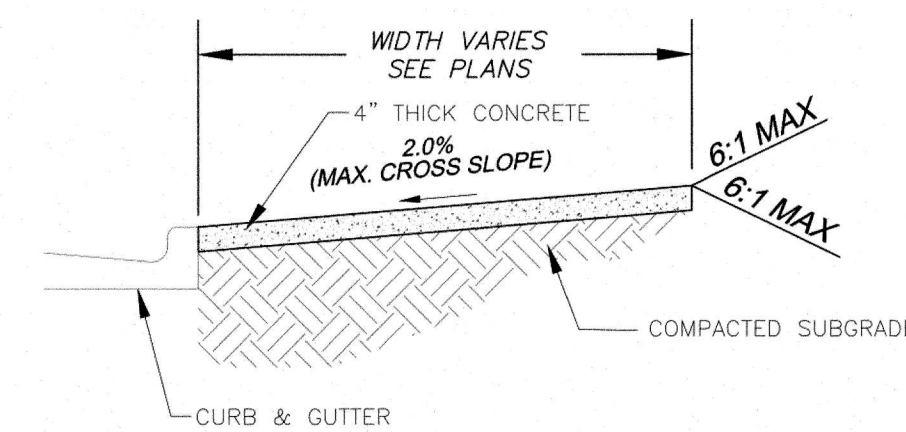
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N.T.S.

4 CONCRETE WHEEL STOP N.T.S.

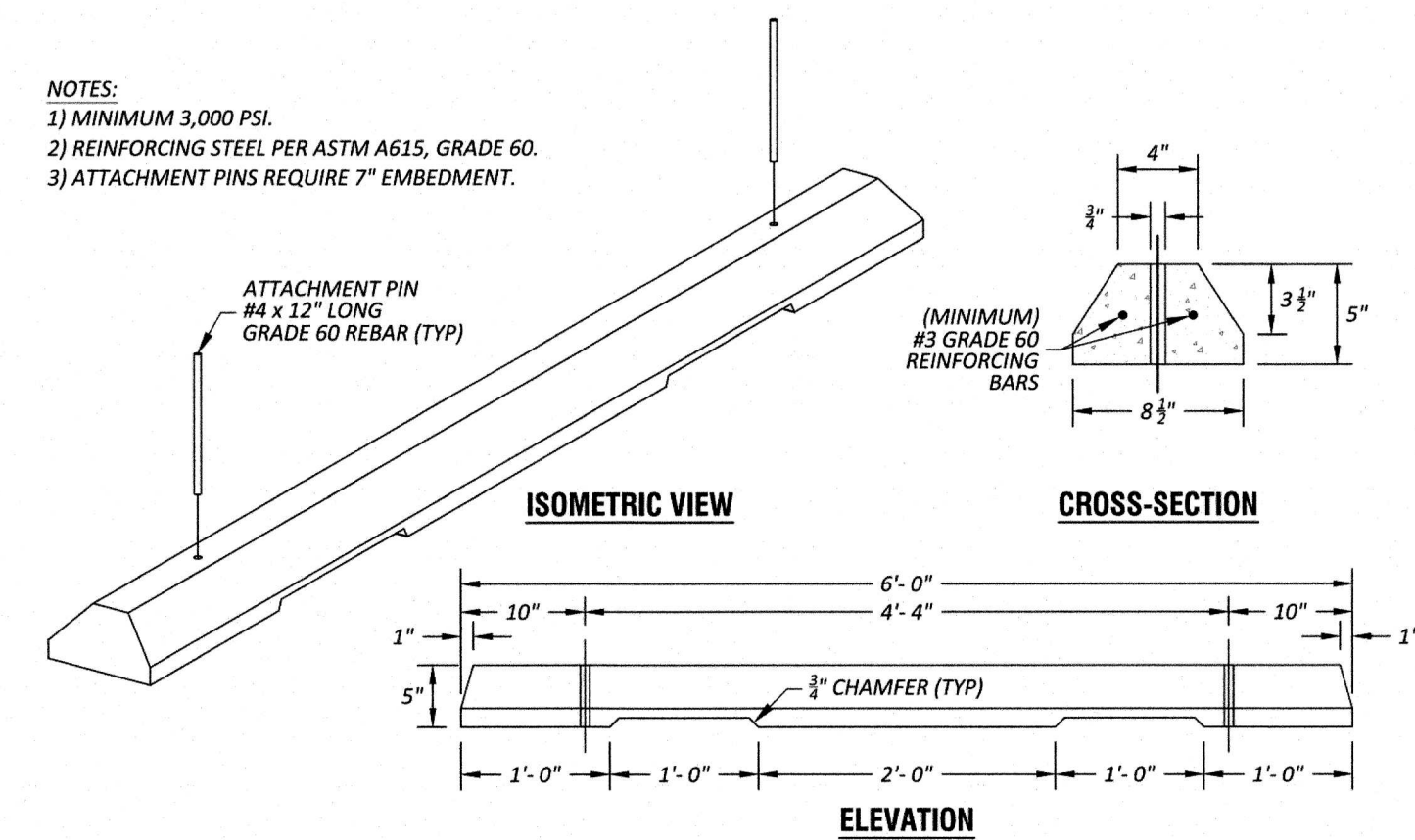
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N.T.S.

7 CONCRETE SIDEWALK N.T.S.

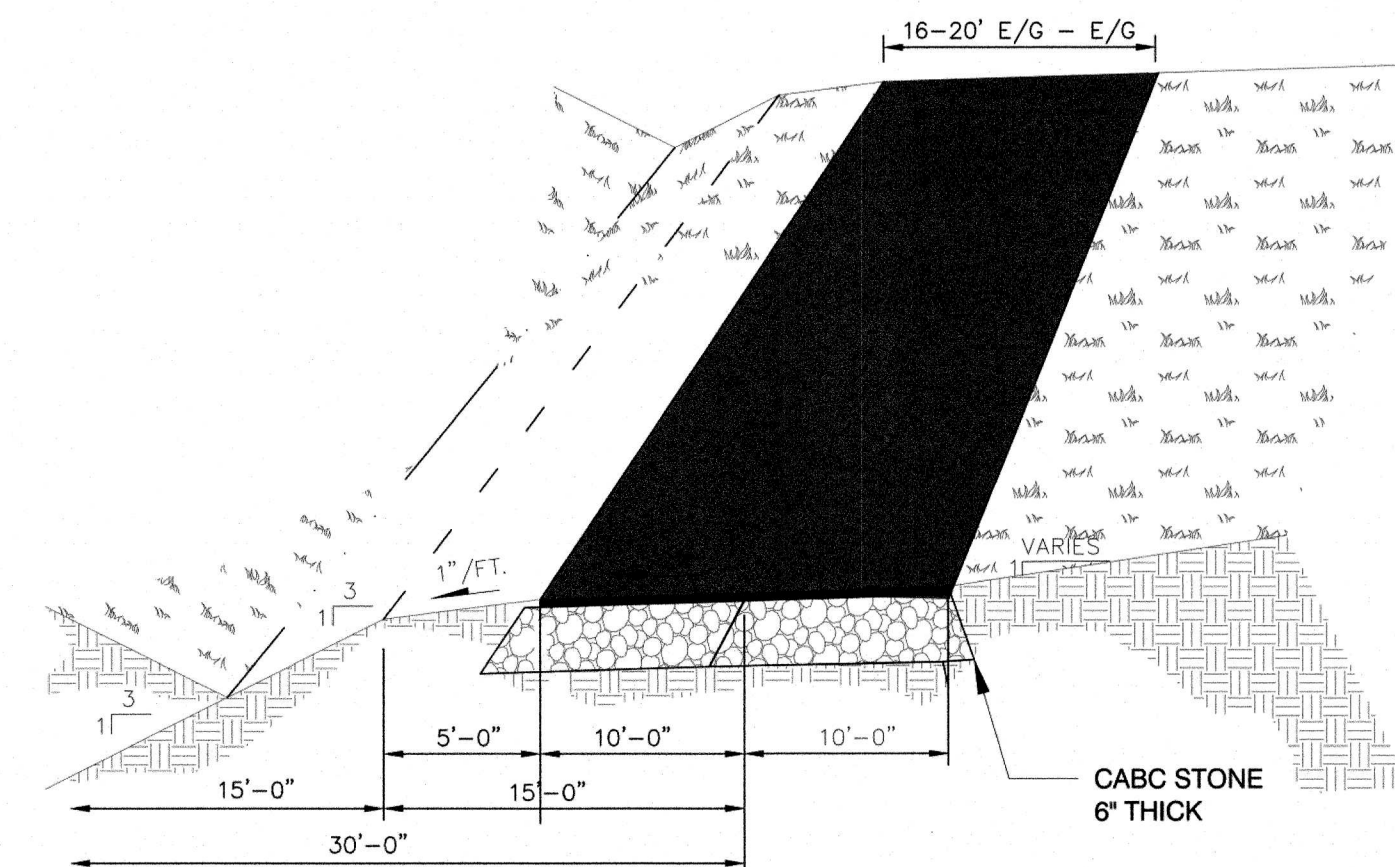
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N.T.S

3 PRECAST REINFORCED CONCRETE WHEEL-STOP

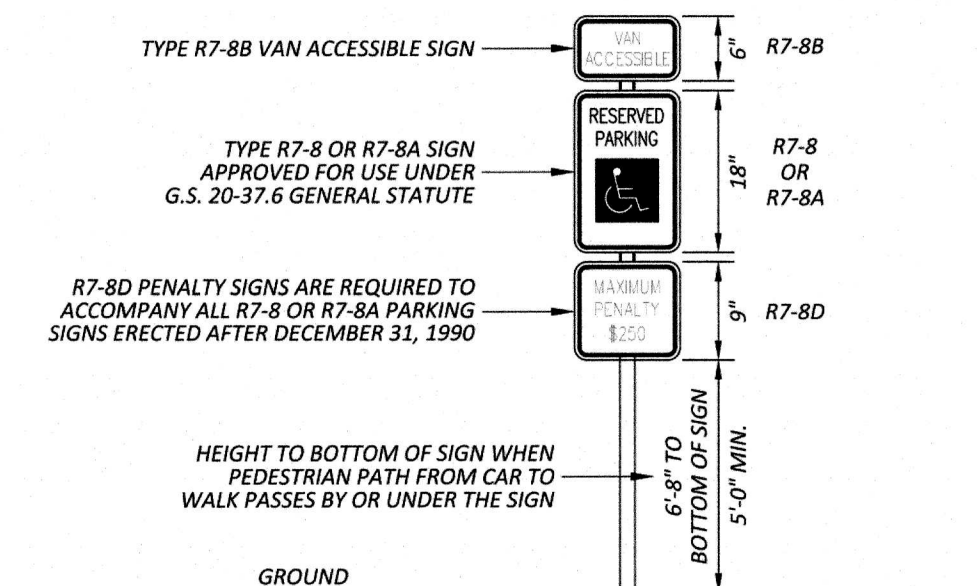
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N.T.S.

6 TYPICAL DRIVEWAY CROSS-SECTION

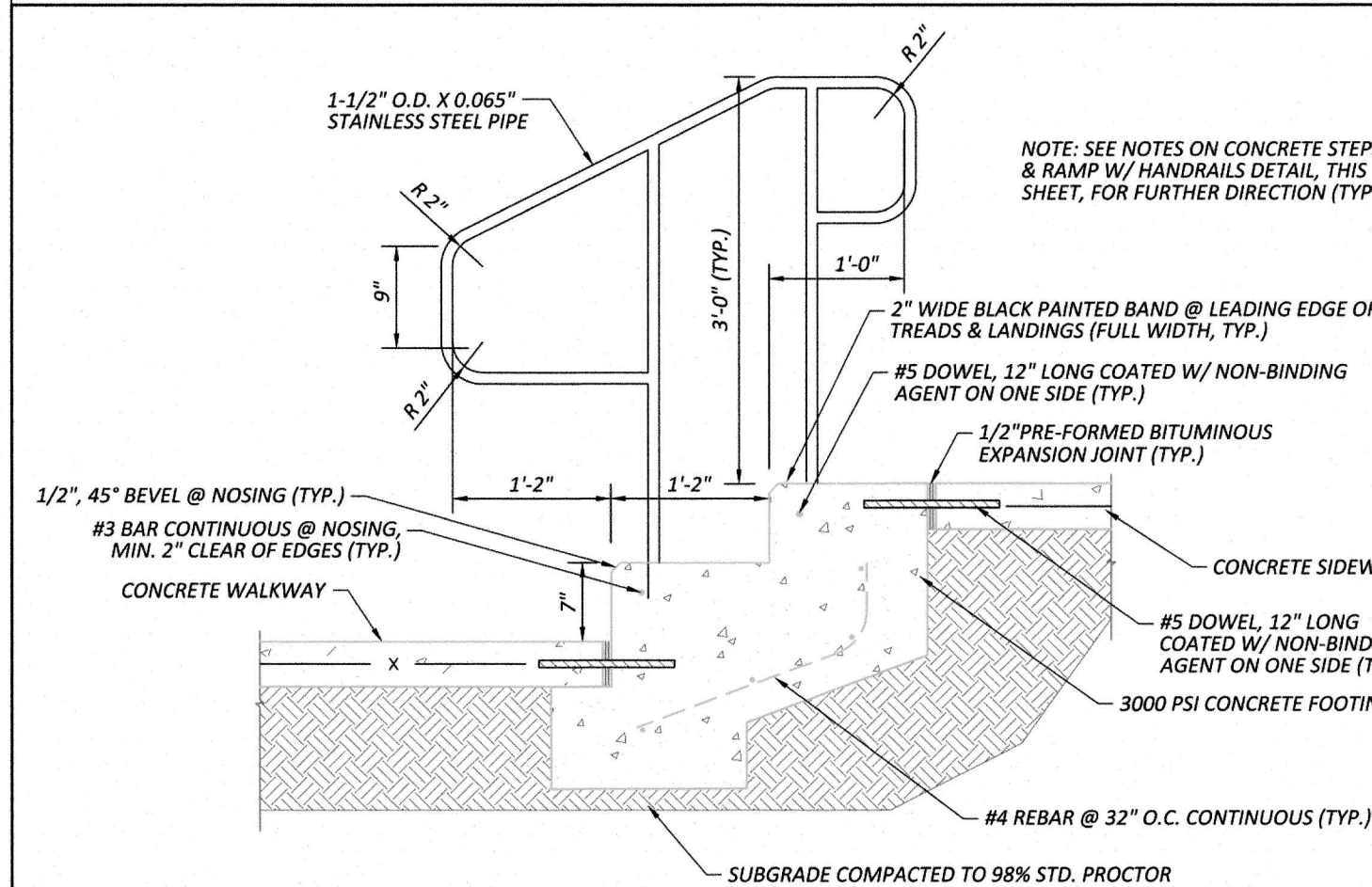
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N.T.S.

2 HANDICAPPED PARKING SIGN

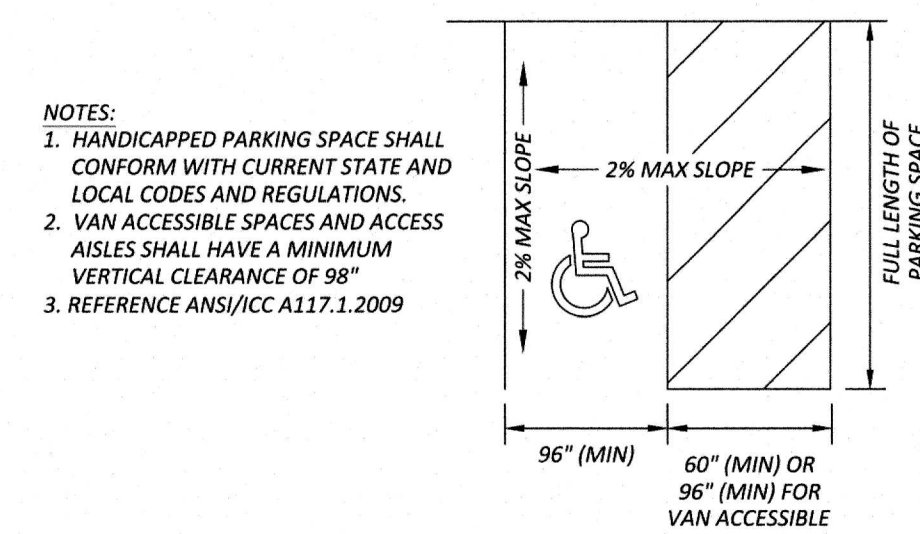
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N.T.S.

5 CONCRETE STAIR

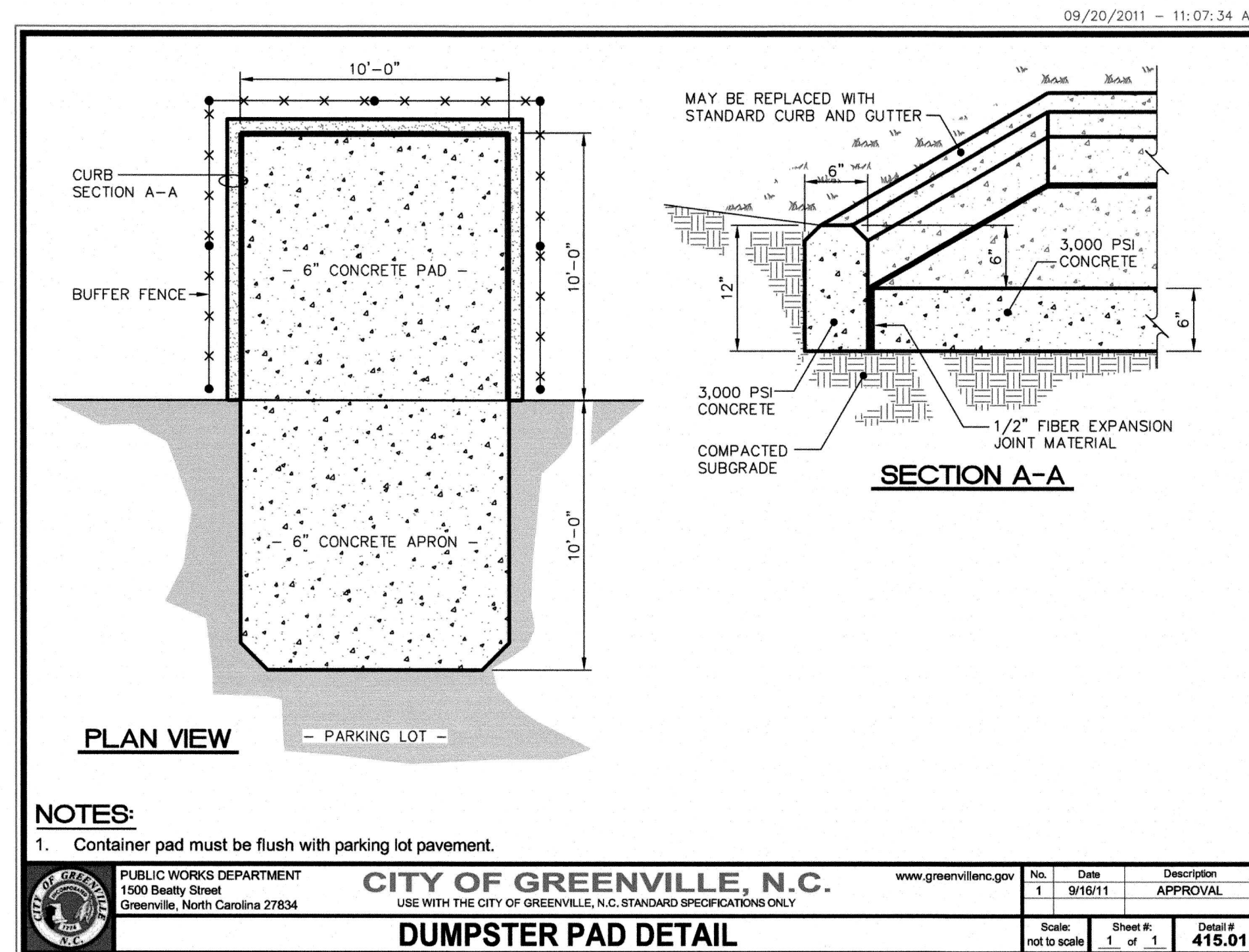
N.T.S.



N.T.S.

1 HANDICAPPED PARKING

N.T.S.



Detail #

NC License F-0331

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REVISIONS:				
NO.	DESCRIPTION	DATE	BY	MAP
2	QTY REVIEW COMMENTS	10/6/20		MAP
1	QTY REVIEW COMMENTS	9/4/2020		MAP

CITY OF GREENVILLE
ADVENTURE PARK
PITT COUNTY ~ NORTH CAROLINA

SITE DETAILS

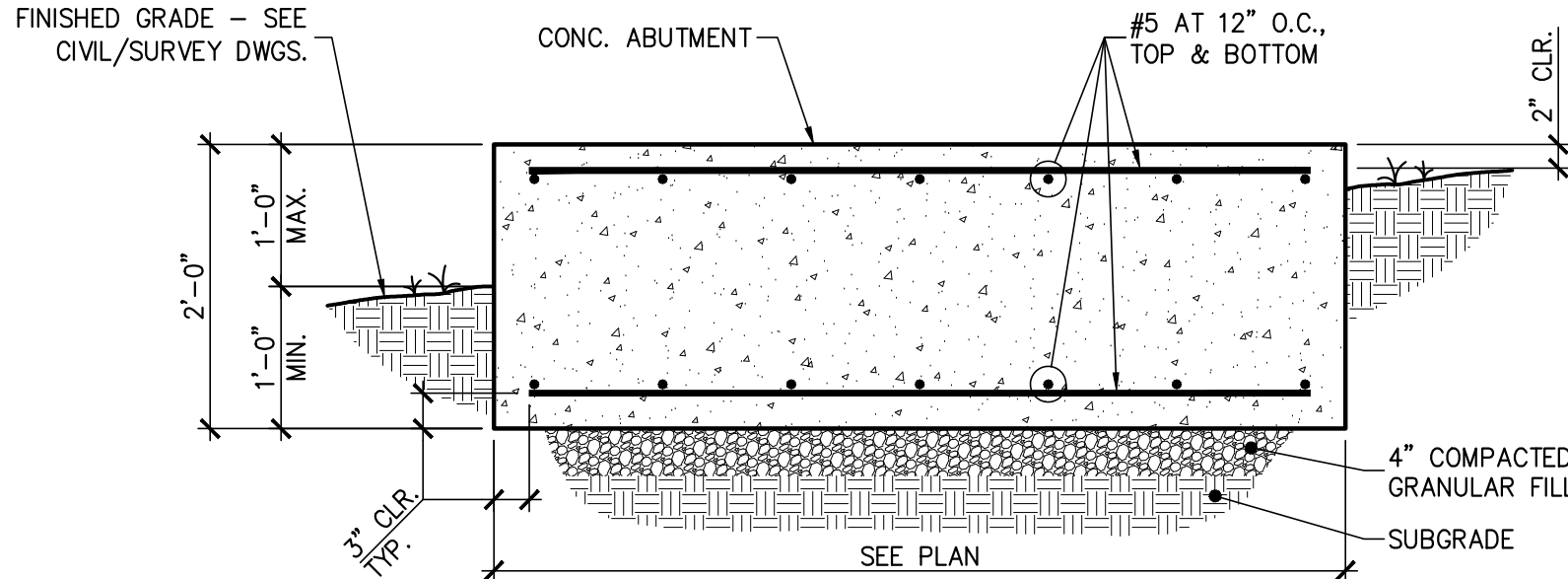
DATE:	
AUGUST 7, 2020	
DESIGNED BY:	MJP
DRAWN BY:	SBC
CHECKED BY:	JDV
PROJECT No.	2017115.14
DRAWING No.	W-3896
SCALE:	AS NOTED
SHEET No.	

C11

X:\2020\2020234 Rivers & Associates - COG Adventure Park Floating Dock\Structural\2020234DOCK.dwg, S1.1, 9/10/2020 3:15:33 PM, mikemglophon, DWG To PDF.pc3, ARCH full bleed D (24.00 x 36.00 inches), 1:1

GENERAL STRUCTURAL NOTES:

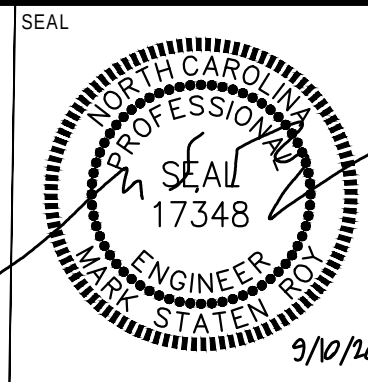
1. GENERAL NOTES
 - 1.1. METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
 - 1.2. COORDINATE THESE DRAWINGS WITH THE CIVIL DRAWINGS.
 - 1.3. VERIFY STIFF-ARM ANCHOR AND GANGWAY WITH FLOATING DOCK VENDOR DRAWINGS.
 - 1.4. CONTRACTOR SHALL VERIFY ALL EXISTING CONSTRUCTION DIMENSIONS WHICH IMPACT NEW CONSTRUCTION PRIOR TO FABRICATING ANY STRUCTURAL ELEMENTS.
 - 1.5. DO NOT MODIFY ANY STRUCTURAL ELEMENTS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS WITHOUT APPROVAL OF THE ENGINEER OF RECORD.
 - 1.6. CONTRACTOR IS RESPONSIBLE FOR DESIGN AND INSTALLATION OF ALL SHORING REQUIRED TO SUPPORT NEW AND EXISTING STRUCTURAL ELEMENTS.
2. FOUNDATION
 - 2.1. FOUNDATION DESIGN IS BASED ON A PRESUMPTIVE MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF 1,000 PSF.
 - 2.2. ALL FOOTINGS SHALL BE ON UNDISTURBED SOIL OR 98% COMPACTED FILL PER ASTM D698.
 - 2.3. NO FOOTINGS OR SLABS SHALL BE POURED INTO OR AGAINST SUBGRADE CONTAINING FREE WATER, FROST, ICE OR LOOSE MATERIAL.
 - 2.4. EXCAVATIONS FOR FOOTINGS SHALL HAVE THE SIDES AND BOTTOMS TEMPORARILY LINED WITH 6 MIL. POLYETHYLENE IF PLACEMENT OF CONCRETE DOES NOT OCCUR WITHIN 24 HRS OF THE EXCAVATION OF THE FOOTING.
 - 2.5. ADVERSE FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION SUCH AS SOFT SOILS, ORGANIC MATTER, ETC., SHALL BE REPORTED TO THE ENGINEER BEFORE FURTHER CONSTRUCTION IS ATTEMPTED.
 - 2.6. IF UNDERMINING OF FOOTINGS OCCURS, FILL VOIDS WITH LEAN CONCRETE MIX. DO NOT ATTEMPT TO REPLACE AND RECOMPACT SOIL.
4. CONCRETE
 - 4.1. ALL PLACED CONCRETE, SHALL HAVE NORMAL WEIGHT COARSE AGGREGATES, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'_c) OF 3,000 PSI AT 28 DAYS.
 - 4.2. NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.
 - 4.3. CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH $\frac{3}{4}$ " x 45 DEGREE CHAMFER, UNLESS OTHERWISE NOTED.
 - 4.4. ALL REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60.
 - 4.5. DETAIL AND FABRICATE REINFORCING STEEL IN ACCORDANCE WITH THE ACI DETAILING MANUAL.



1
S1.1
SECTION - TYP. ABUTMENT
3/4" = 1'-0"

BAR SIZE	CONCRETE REBAR SPLICE SCHEDULE		
	LAP LENGTH (in.)		
	$f'_c = 3000$ psi	$f'_c = 4000$ psi	$f'_c = 5000$ psi
#4	22	19	17
#5	28	24	21
#6	32	29	26
#7	48	42	37
#8	55	48	43
#9	62	54	48
#10	68	60	53
#11	76	66	59

- NOTES:
1. CONCRETE IS NORMAL WEIGHT CONCRETE. IF LIGHTWEIGHT CONCRETE IS USED, MULTIPLY LENGTHS IN TABLE BY 1.3.
 2. BAR YIELD STRENGTH (f_y) IS 60 KSI.
 3. BAR SPACING AND COVER REQUIREMENTS OF ACI SECTION 25.4.2.2 ARE ASSUMED TO BE MET. IF NOT, MULTIPLY LENGTHS IN TABLE BY 1.5.
 4. REDUCTION OF EXCESS REINFORCEMENT NOT TAKEN.
 5. IF MORE THAN 12" OF FRESH CONCRETE IS CAST IN MEMBER BELOW HORIZONTAL SPLICE, MULTIPLY LENGTHS IN TABLE BY 1.3.



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Structural Engineering Solutions
Engineering License Certificate No. C-2734
102 Regency Blvd.
Suite A1
Greenville, NC 27834
Phone: 252-321-6027
Fax: 252-355-2179
RPA Project No.: 2020234

REVISIONS:

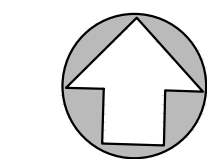
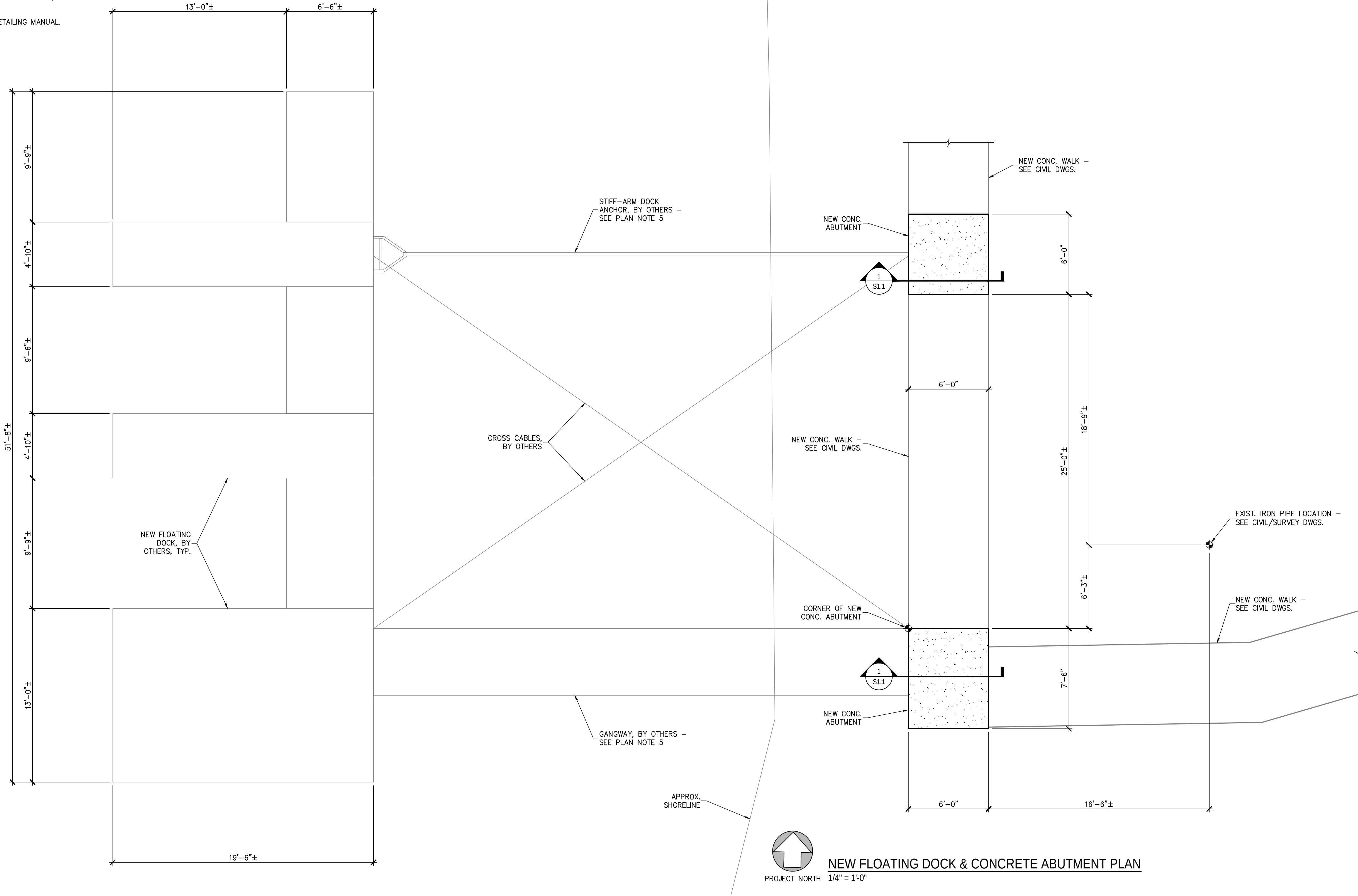
NO.	DATE	BY	DESCRIPTION

CITY OF GREENVILLE
ADVENTURE PARK
PITT COUNTY ~ NORTH CAROLINA
FOUNDATION PLAN

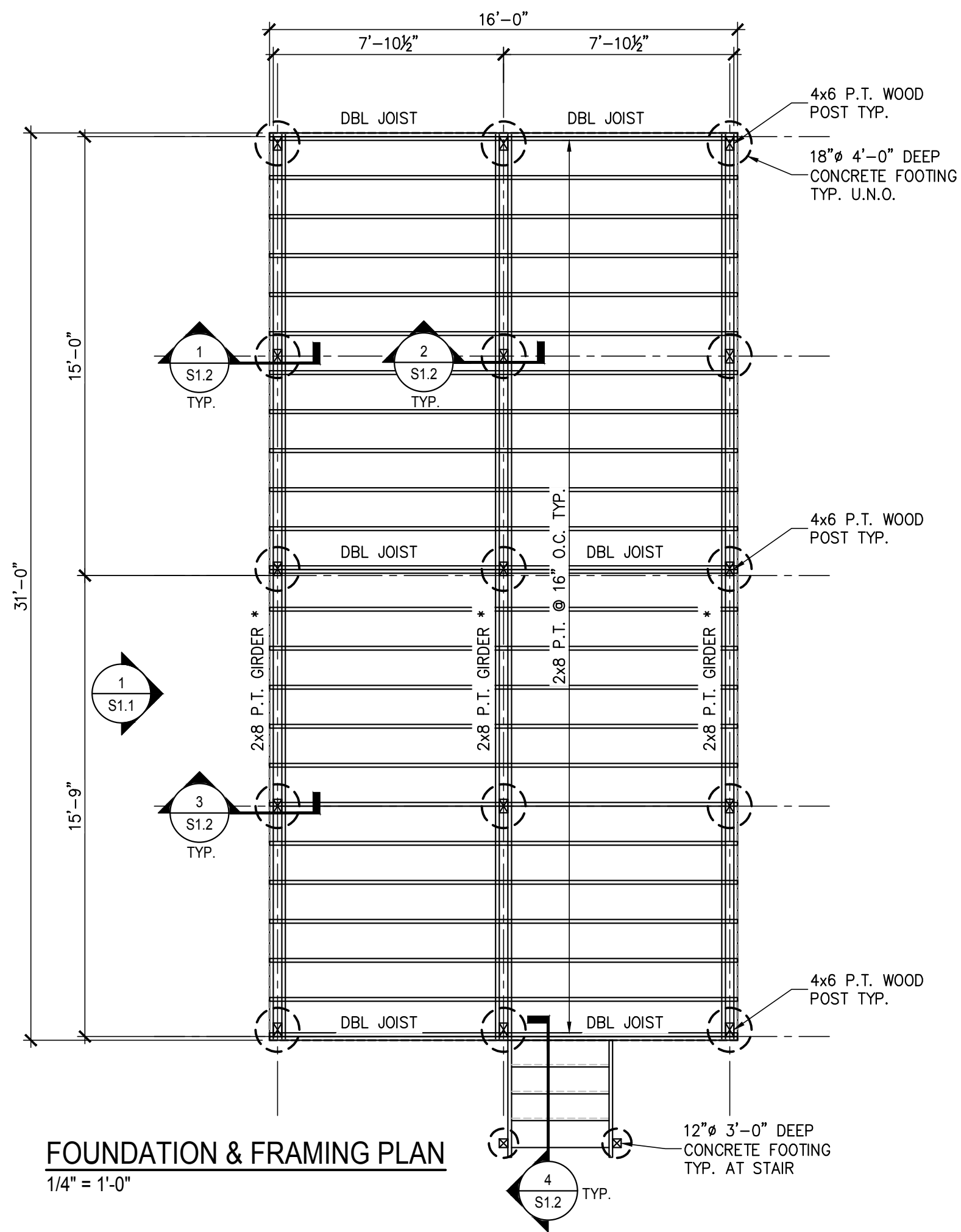
DATE: SEPT 10, 2020
DESIGNED BY: MSR
DRAWN BY: MBM
CHECKED BY: MSR
PROJECT No. 2017115.14
DRAWING No. -
SCALE: AS NOTED
SHEET No. 1 OF 1

S1.0

- DOCK AND ABUTMENT PLAN NOTES:
1. SEE THIS SHEET FOR GENERAL STRUCTURAL NOTES & SCHEDULES.
 2. DIMENSIONS SHOWN WITH '±' SHALL BE VERIFIED PRIOR TO INSTALLATION OF ABUTMENTS.
 3. SEE CIVIL/SURVEY DRAWINGS FOR ACTUAL SITE ELEVATIONS.
 4. CONCRETE ABUTMENT SLABS ARE AS SHOWN ON PLAN AND SECTION. PROVIDE MINIMUM 4" COMPACTED GRANULAR BASE UNDER ABUTMENTS.
 5. ATTACH STIFF-ARM DOCK ANCHOR AND GANGWAY TO CONCRETE ABUTMENTS AS SPECIFIED BY MANUFACTURER.

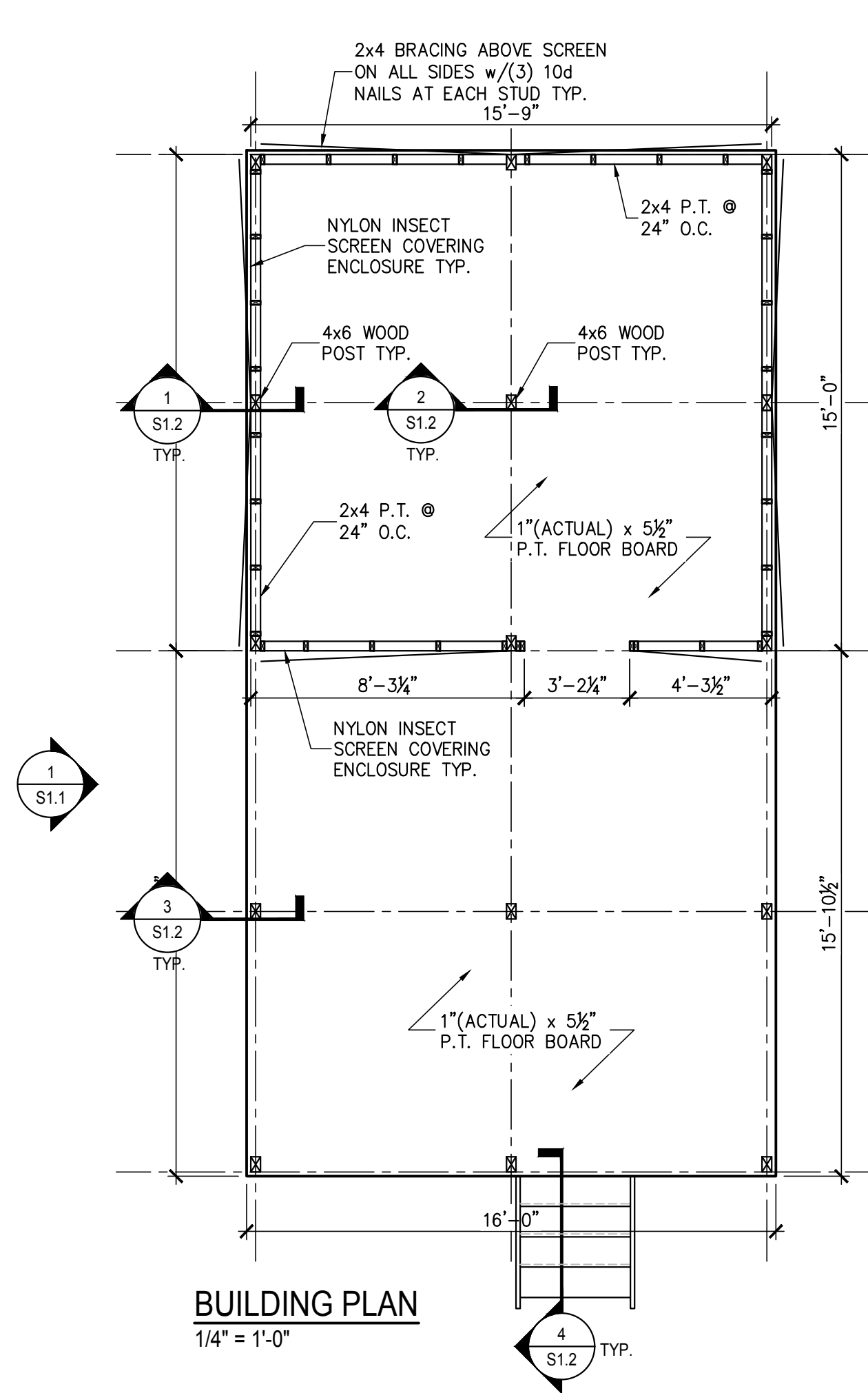


NEW FLOATING DOCK & CONCRETE ABUTMENT PLAN
1/4" = 1'-0"



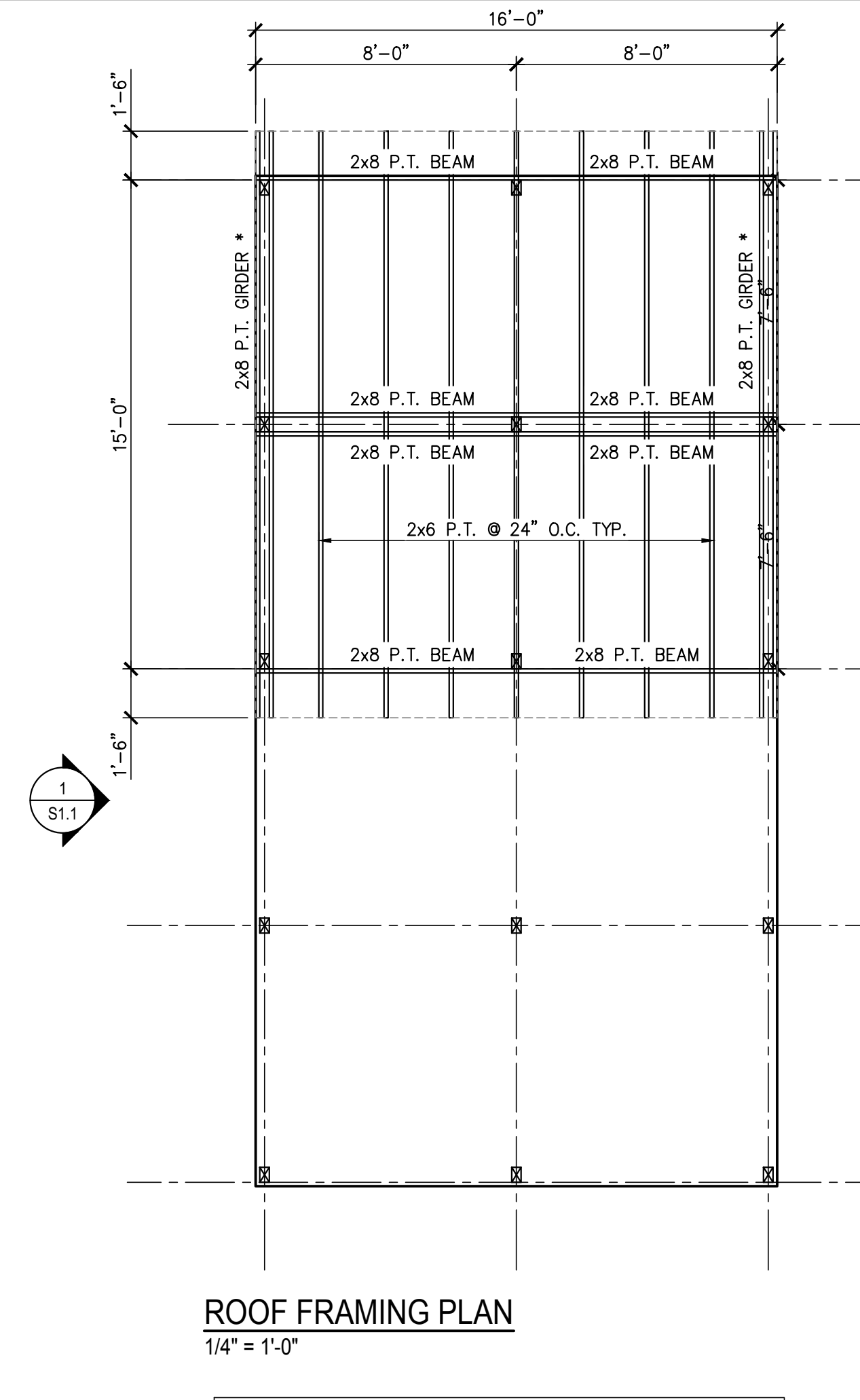
PLAN NOTES:

- FOR MORE INFORMATION SEE DESIGN CRITERIA, GENERAL STRUCTURAL NOTES & SCHEDULES.
- TOP OF FLOOR REFERENCE ELEVATION = 0'-0" UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR ACTUAL SITE ELEVATIONS. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- * DENOTES DROP GIRDER ON BOTH SIDES OF POST w/ (4) 5/8" GALV THRU BOLTS & PLATE WASHER. TYP.



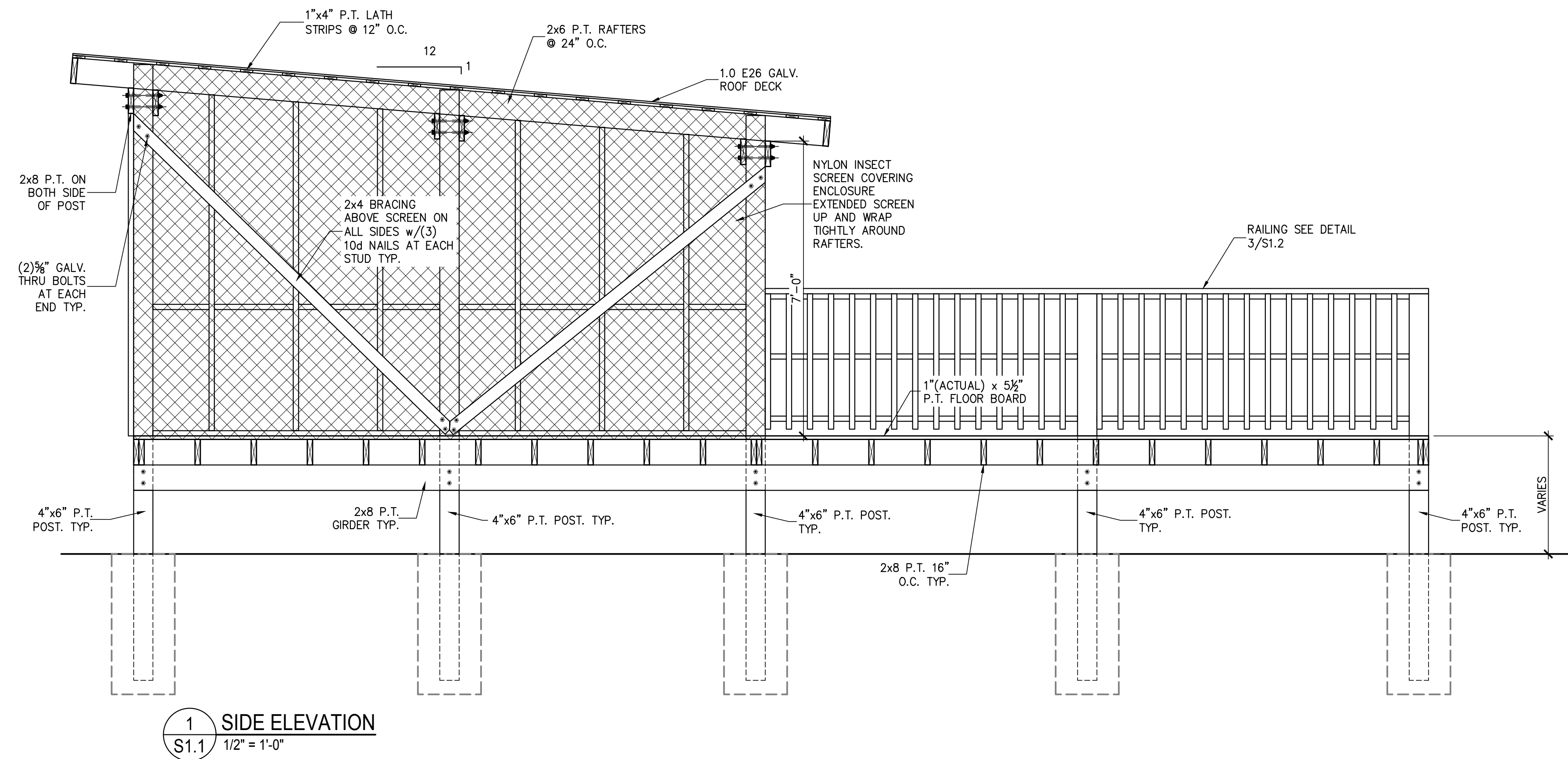
PLAN NOTES:

- FOR MORE INFORMATION SEE DESIGN CRITERIA, GENERAL STRUCTURAL NOTES & SCHEDULES.
- ALL WALLS ARE 2x4 STUDS @ 24" O.C. TYP. U.N.O.



ROOF FRAMING PLAN NOTES:

- FOR MORE INFORMATION SEE DESIGN CRITERIA, GENERAL
- VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.



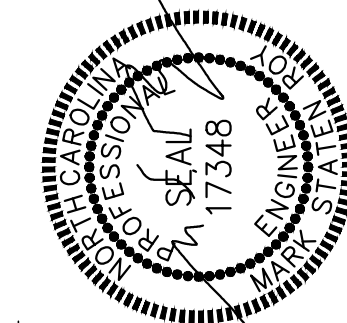
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102 Regency Blvd.
Suite A1
Greenville, NC 27834

Phone : 252-321-6027
Fax : 252-355-2179



LANCE CHERRY CAMPING PLATFORM
EDGEcombe COUNTY, NC
SOUND RIVERS

PO BOX 1854
WASHINGTON, NC 27889

DRAWING TITLE

FOUNDATION
FRAMING &
PLANS
AND ELEVATION

PROJ. NO.

2019070

DATE

07/01/2019

DRAWN

CHECKED

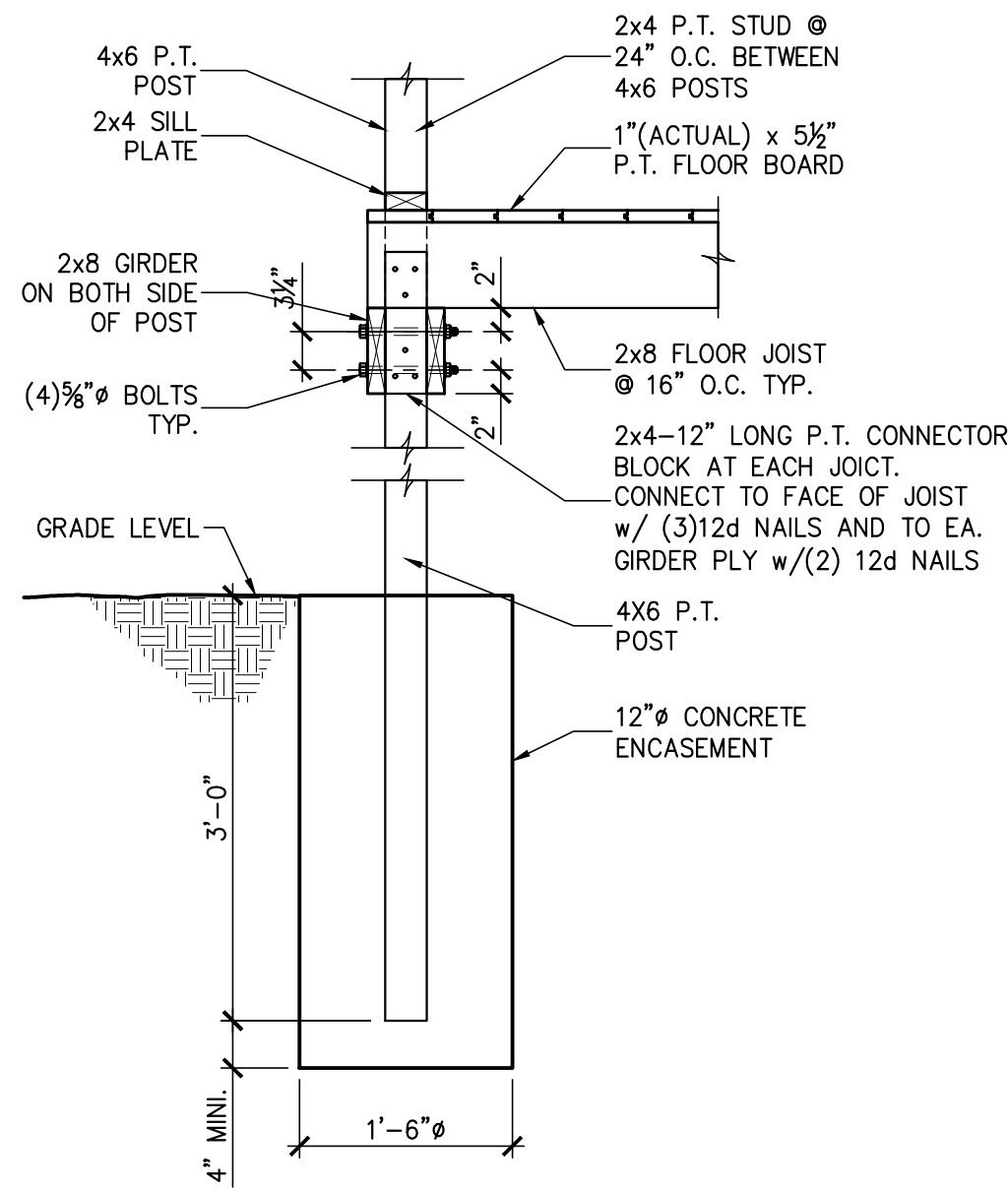
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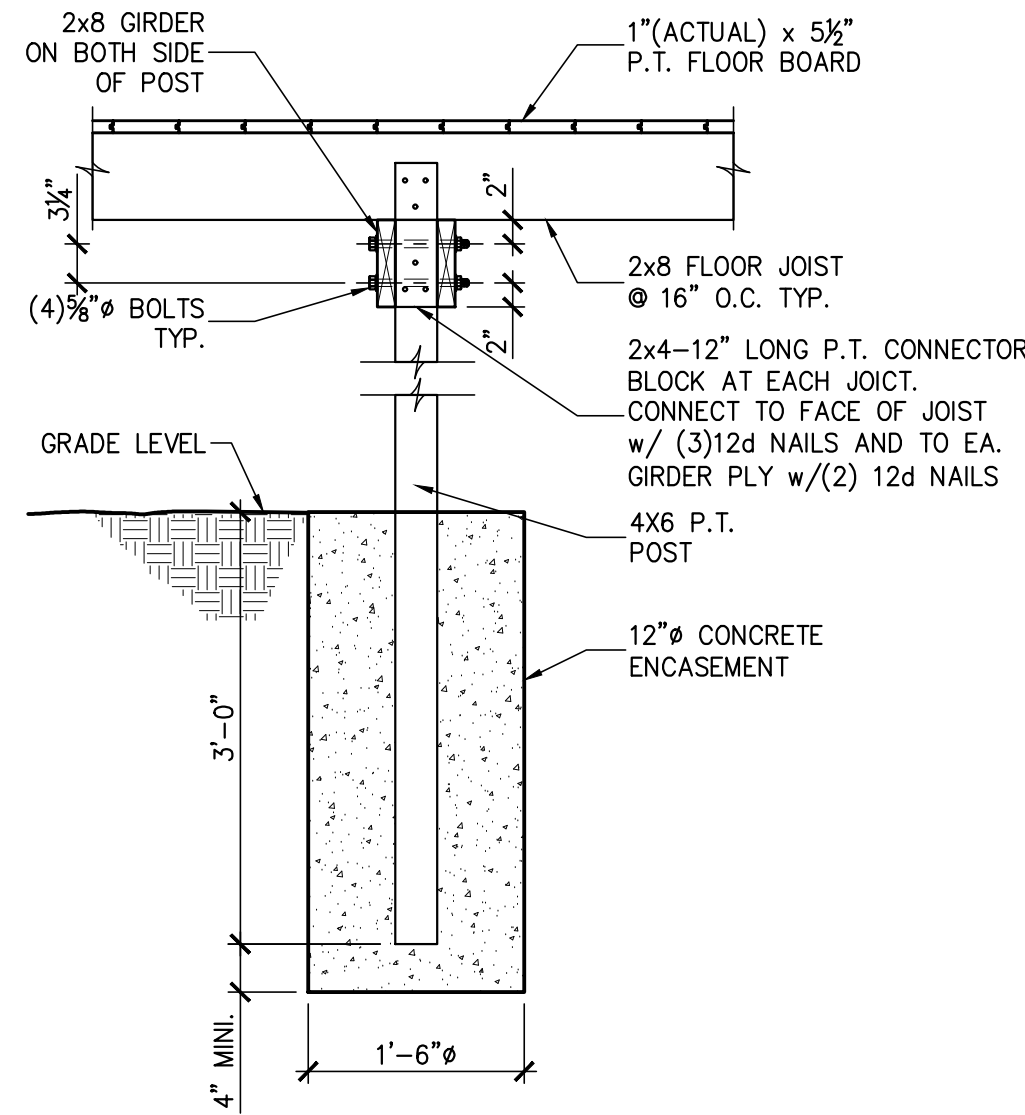
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MSR

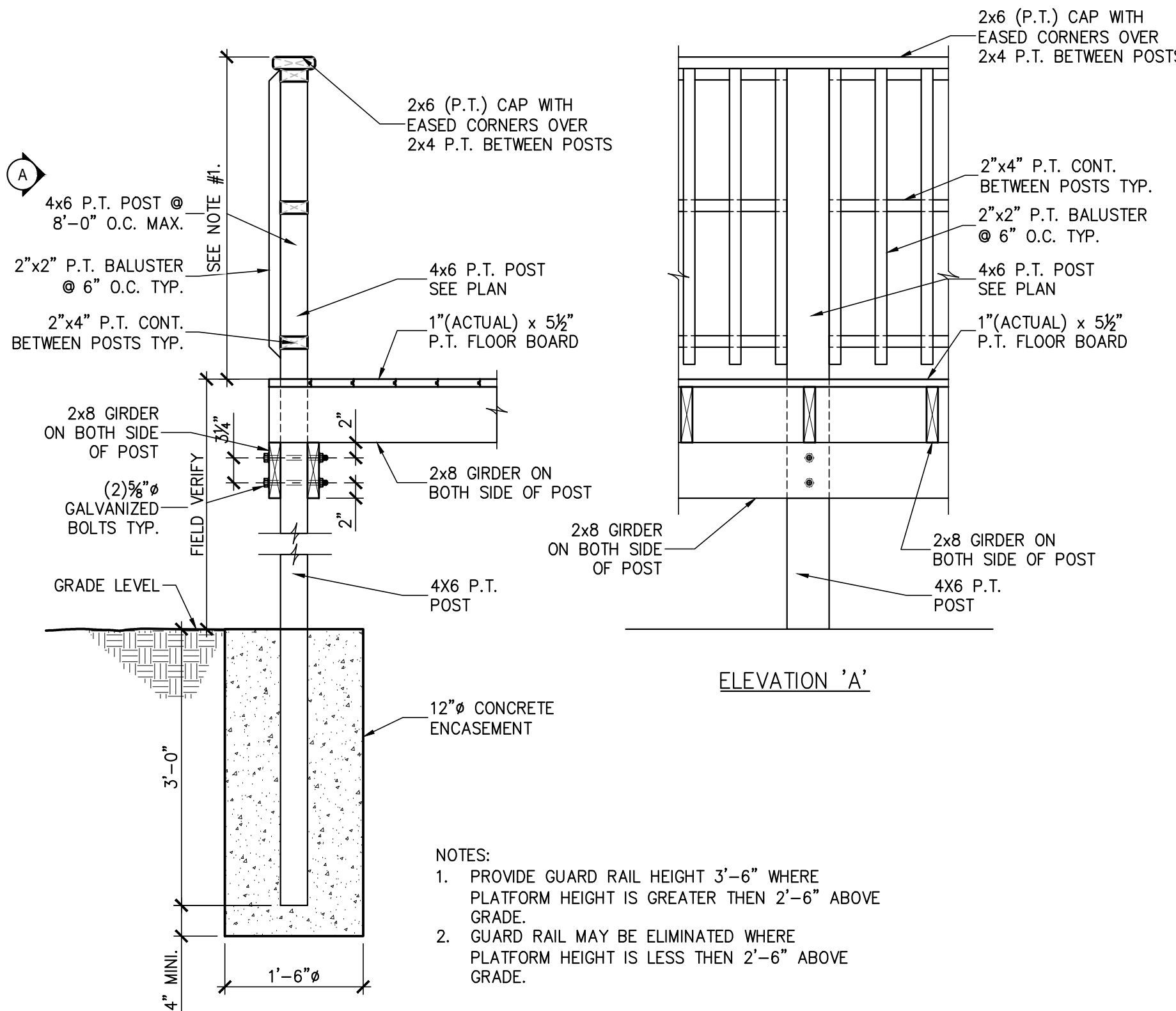
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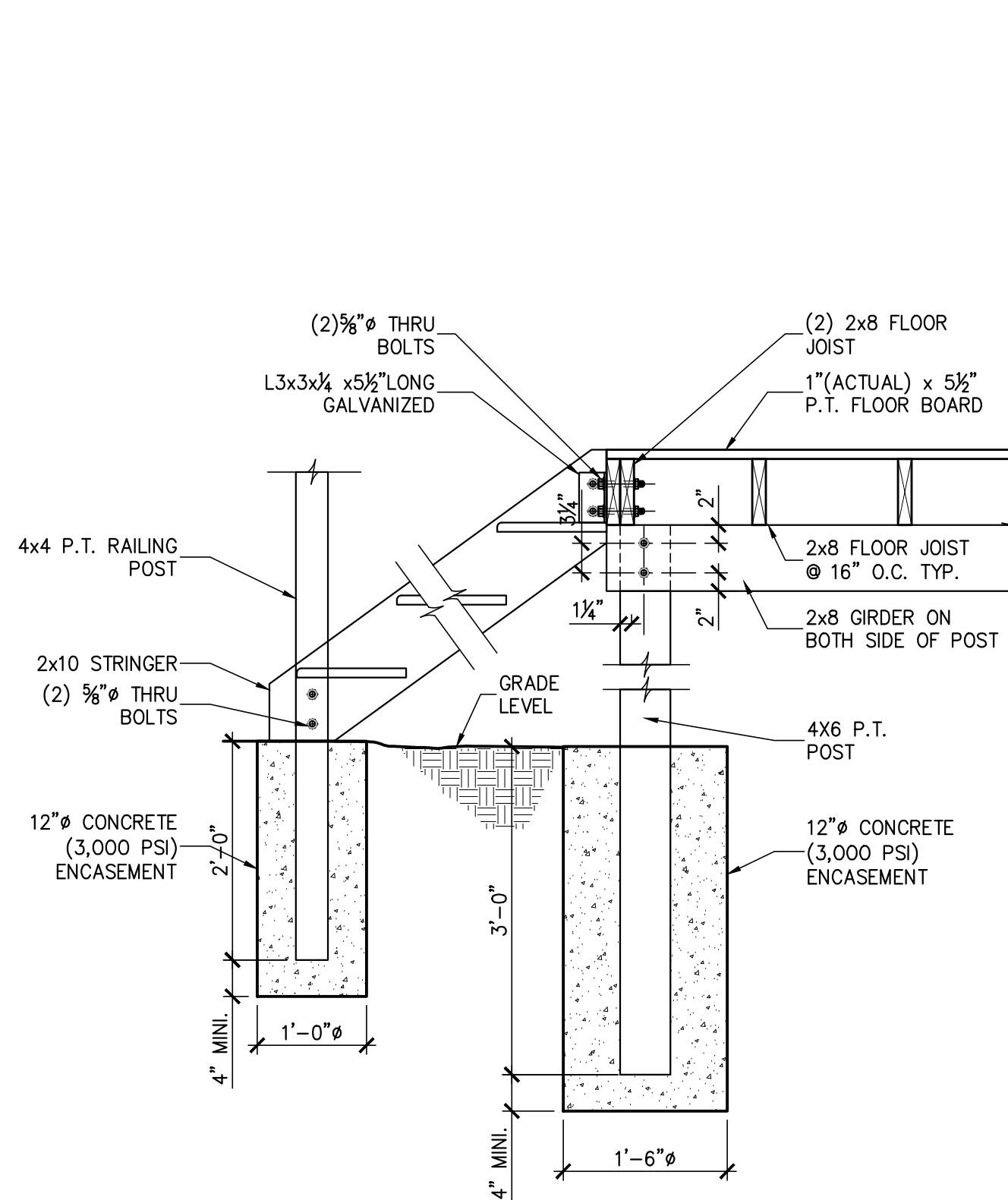
1 SECTION AT POST AND FLOOR
S1.2 3/4" = 1'-0"



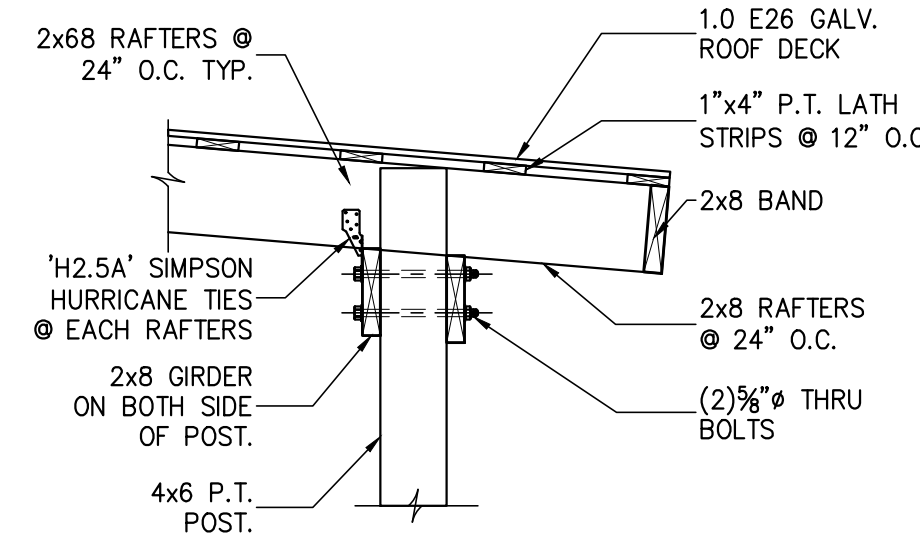
2 SECTION AT MIDDLE POST
S1.2 3/4" = 1'-0"



3 SECTION AT PLATFORM - RAILING
S1.2 3/4" = 1'-0"



4 SECTION AT STEPS
S1.2 3/4" = 1'-0"



5 SECTION AT RAFTERS
S1.2 3/4" = 1'-0"

GENERAL STRUCTURAL NOTES:

1. GENERAL NOTES

- 1.1. METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
- 1.2. VERIFY BUILDING LOCATION AND ORIENTATION WITH OWNER AND LOT SETBACK REQUIREMENTS BEFORE ANY CONSTRUCTION IS STARTED ON THE PROJECT.
- 1.3. CONTRACTOR IS RESPONSIBLE FOR DESIGN AND INSTALLATION OF ALL SHORING REQUIRED TO SUPPORT NEW AND STRUCTURAL ELEMENTS.

2. FOUNDATION

- 2.1. ALL FOOTINGS SHALL BE ON UNDISTURBED SOIL OR 98% COMPACTED FILL PER ASTM D698.
- 2.2. NO FOOTINGS OR SLABS SHALL BE POURED INTO OR AGAINST SUBGRADE CONTAINING FREE WATER, FROST, ICE OR LOOSE MATERIAL.
- 2.3. EXCAVATIONS FOR FOOTINGS SHALL HAVE THE SIDES AND BOTTOMS TEMPORARILY LINED WITH 6 MIL. POLYETHYLENE IF PLACEMENT OF CONCRETE DOES NOT OCCUR WITHIN 24 HRS OF THE EXCAVATION OF THE FOOTING.
- 2.4. ADVERSE FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION SUCH AS SOFT SOILS, ORGANIC MATTER, ETC., SHALL BE REPORTED TO THE ENGINEER BEFORE FURTHER CONSTRUCTION IS ATTEMPTED.
- 2.5. IF UNDERMINING OF FOOTINGS OCCURS, FILL VOIDS WITH LEAN CONCRETE MIX. DO NOT ATTEMPT TO REPLACE AND RECOMPACT SOIL.

3. CONCRETE

- 3.1. ALL PLACED CONCRETE, SHALL HAVE NORMAL WEIGHT COARSE AGGREGATES, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'_c) OF 3,000 PSI AT 28 DAYS.
- 3.2. NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.
- 3.3. CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH $\frac{3}{4}$ " x 45 DEGREE CHAMFER, UNLESS OTHERWISE NOTED.
- 3.4. ALL REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60.
- 3.5. DETAIL AND FABRICATE REINFORCING STEEL IN ACCORDANCE WITH THE ACI DETAILING MANUAL.

4. WOOD FRAMING

- 4.1. ALL STRUCTURAL WOOD MEMBERS SHALL BE No. 2 SOUTHERN YELLOW PINE, 19% MAXIMUM MOISTURE CONTENT, UNLESS OTHERWISE NOTED. INTERIOR NON BEARING PARTITIONS MAY BE No. 2 SPRUCE (SPF).
- 4.2. ALL WOOD FRAMING, DIRECTLY EXPOSED TO WEATHER, OR IN DIRECT CONTACT WITH MASONRY, SOIL OR CONCRETE, SHALL BE PRESSURE TREATED, UNLESS OTHERWISE NOTED.
- 4.3. ALL METAL CONNECTORS SHALL BE HOT DIP GALVANIZED. INSTALL ALL CONNECTORS PER THE MANUFACTURER'S RECOMMENDATIONS. METAL CONNECTOR DESIGNATIONS INDICATED ON PLANS, ARE FOR 'SIMPSON STRONG-TIE' ANCHORS. ANCHORS FROM OTHER MANUFACTURERS MAY BE USED, PROVIDED THEY HAVE EQUIVALENT STRENGTH.
- 4.4. ALL NAILED CONNECTIONS SHALL BE IN ACCORDANCE WITH NORTH CAROLINA STATE BUILDING CODE TABLE 2304.9.1. — FASTENING SCHEDULE, UNLESS OTHERWISE NOTED.
- 4.5. FRAMING CONNECTIONS THAT ARE BOLTED OR SCREWED, SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD.
- 4.6. PROVIDE STUDS AND HEADERS AT ALL EXTERIOR WALLS AND INTERIOR BEARING WALLS AS FOLLOWS, UNLESS OTHERWISE NOTED:

OPENING WIDTH	STUDS	HEADER
0'-0" TO 6'-0"	2 KING STUDS, 1 JACK STUD	(2) 2 x 10 @ 2 x 4 WALL (3) 2 x 10 @ 2 x 6 WALL
6'-1" TO 8'-0"	2 KING STUDS, 2 JACK STUDS	(2) 2 x 10 @ 2 x 4 WALL (3) 2 x 10 @ 2 x 6 WALL
8'-1" TO 12'-0"	3 KING STUDS, 2 JACK STUDS	(2) 2 x 12 @ 2 x 4 WALL (3) 2 x 12 @ 2 x 6 WALL

STRUCTURAL DESIGN CRITERIA:

1. DESIGN LOADS:

	MAX	MIN (FOR UPLIFT)
1.1. ROOF DEAD LOAD	2 PSF	2 PSF
ROOF PANEL	2 PSF	2 PSF
SHEATHING	4 PSF	3 PSF
ROOF FRAMING	2 PSF	0 PSF
MISC.	10 PSF	7 PSF

- 1.1. LIVE LOADS
ROOF LIVE LOAD — ALL AREAS GREATER OF 20 PSF MINIMUM OR SNOW LOAD
- 1ST FLOOR LIVE LOAD 40 PSF

- 1.2. SNOW LOAD
GROUND SNOW LOAD = 10 PSF (EDGEcombe COUNTY)
SNOW LOAD IMPORTANCE FACTOR: $I = 1.0$
SNOW EXPOSURE FACTOR = 1.0
SNOW THERMAL FACTOR = 1.0
ROOF SNOW LOAD = 7 PSF
BASIC DESIGN ROOF SNOW LOAD = 7.0 PSF

- 1.3. WIND LOAD
BASIC WIND SPEED: $V_{ult} = 116$ MPH (EDGEcombe COUNTY)
RISK CATEGORY: I X II III IV
WIND EXPOSURE CATEGORY: 'B' (ASCE 7-10)
WIND BASE SHEAR (FOR MWFRS): $V_x = 2.5K$ $V_y = 2.5K$
INTERNAL PRESSURE COEFFICIENT: ± 0.55

- 1.4. SEISMIC LOADS (N.C. STATE BLDG. CODE):
SEISMIC IMPORTANCE FACTOR: $I = 1.0$
RISK CATEGORY: I X II III IV
COMPLIANCE WITH SECTION 1616.4 ONLY? YES X NO
SEISMIC DESIGN CATEGORY: A X B C D
MAPPED SPECTRAL RESPONSE ACCELERATION: $S_{ss} = 12.2\%$ $S_1 = 6.2\%$ $S_2 = 9.9\%$
SEISMIC RESPONSE COEFFICIENT: $R = 0.044$
RESPONSE MODIFICATION FACTOR, $R = 3.00$ (ORDINARY CONCENTRICALLY BRACED FRAME)
SITE CLASSIFICATION: A B C X D E F

- BASIC STRUCTURAL SYSTEM:
 X BEARING WALL $DUAL$ w/ SPECIAL MOMENT FRAME
 $DUAL$ w/ INTERMEDIATE R/C OR SPECIAL STEEL
MOMENT FRAME $INVERTED$ PENDULUM

- SEISMIC BASE SHEAR: $V_x = 0.50K$ $V_y = 0.50K$
ANALYSIS PROCEDURE: $SIMPLIFIED$ X $EQUIVALENT$ LATERAL FORCE $MODAL$
ARCHITECTURAL MECHANICAL COMPONENTS ANCHORED? YES X NO

- 1.5. LATERAL DESIGN CONTROL: $EARTHQUAKE$ X $WIND$
ALL DESIGN LOADS ARE PER NORTH CAROLINA STATE BUILDING CODE 2018 EDITION.

- 1.6. WIND LOADS CONTROL THE LATERAL LOAD DESIGN. THE BUILDING UTILIZES DIAGONAL BRACING FOR LATERAL LOAD RESISTANCE.
2. FOUNDATION DESIGN CRITERIA:
2.1. MINIMUM FOOTING BEARING DEPTH BELOW GRADE IS 12 INCHES.
2.2. FOUNDATION DESIGN IS BASED ON A PRESUMPTIVE SOIL BEARING CAPACITY OF 1,500 PSF.
2.3. CONTRACTOR SHALL FIELD VERIFY THE SOIL BEARING CAPACITY PRIOR TO START OF CONSTRUCTION.

RPA ENGINEERING, P.A.

Structural Engineering Solutions

Engineering License Certificate No. C-2734

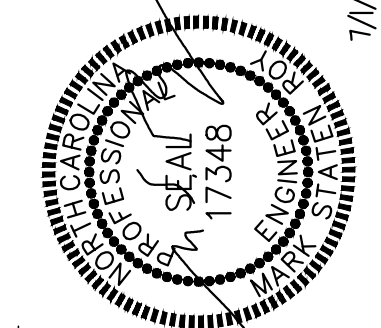
102 Regency Blvd.

Suite A1

Greenville, NC 27834

Phone : 252-321-6027

Fax : 252-355-2179



LANCE CHERRY CAMPING PLATFORM
EDGEcombe COUNTY, NC
SOUND RIVERS

PO BOX 1854
WASHINGTON, NC 27889

DRAWING TITLE
STRUCTURAL NOTES
DESIGN CRITERIA
DETAILS & SECTION

PROJ. NO.
2019070

DATE
07/01/2019

DRAWN
GBP

CHECKED
MSR

APPROVED
MSR

SHEET NO.

S1.2

Street Light Layout

CITY OF GREENVILLE PLANTING NOTES:

- [illegible]

LEGEND :

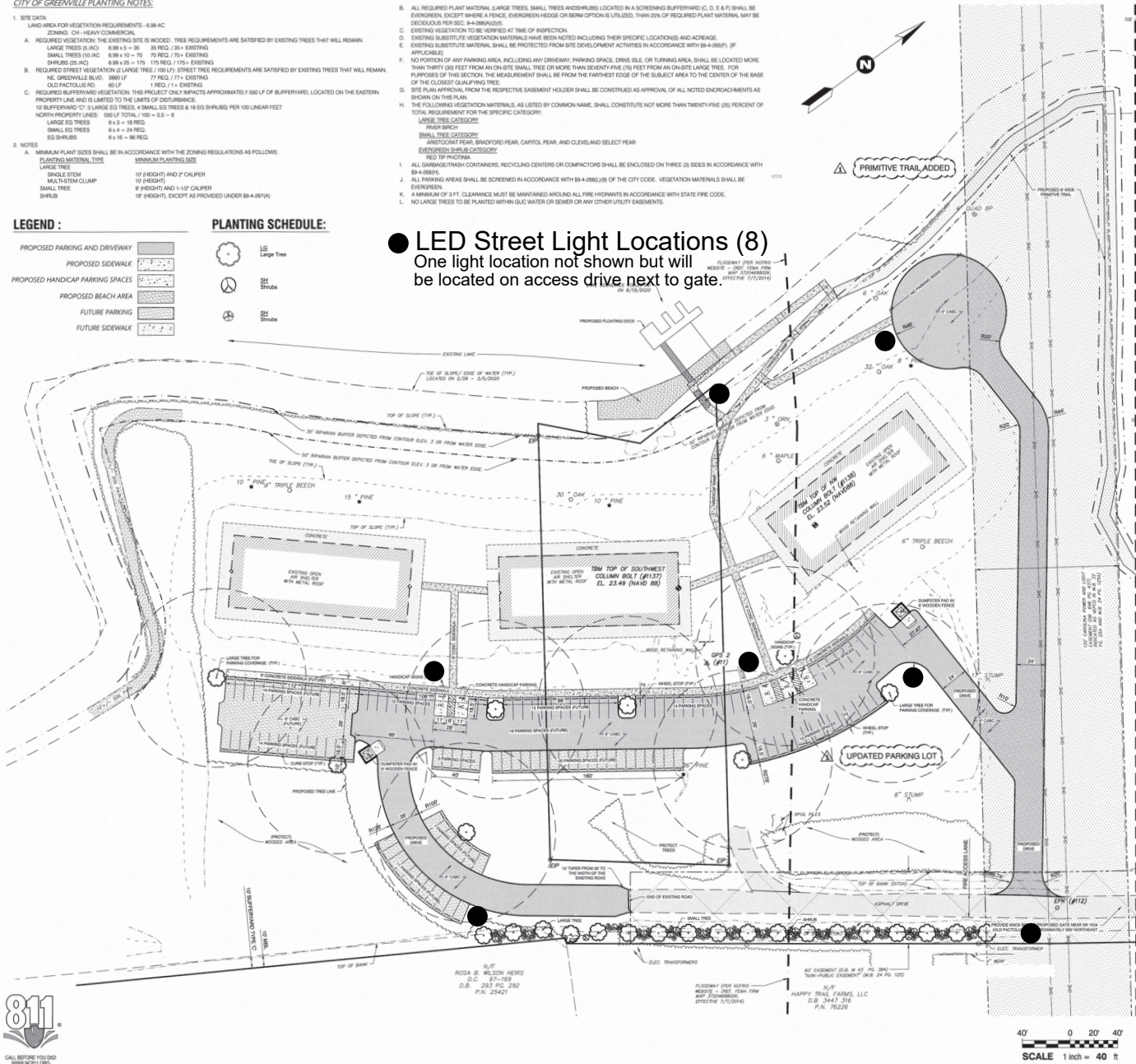
- | | |
|----------------------------------|---|
| PROPOSED PARKING AND DRIVEWAY |  |
| PROPOSED SIDEWALK |  |
| PROPOSED HANDICAP PARKING SPACES |  |
| PROPOSED BEACH AREA |  |
| FUTURE PARKING |  |
| FUTURE SIDEWALK |  |

PLANTING SCHEDULE:

-  LG
Large Tree
 SH
Shrubs
 SH
Shrubs

- A. ALL REQUIRED PLANT MATERIAL LARGE TREES, SMALL TREES AND SHRUBS (LARGE IN A DIFFERENT SIZING) (C, D, E, F, H) SHALL BE EVERGREENS, EXCEPT WHERE A PLANTER, FENCE, EVIDENCE OR OTHER OBJECT IS UTILIZED, THEN 25% OF REQUIRED PLANT MATERIAL MAY BE DECIDUOUS.
- B. DECIDUOUS TREES SHALL BE SPECIFIED BY SPECIES AND SIZE.
- C. DECIDUOUS TREES TO BE VERIFIED AT TIME OF INSPECTION.
- D. DECIDUOUS TREES AND VEGETATION MATERIALS HAVE BEEN NOTED ON THEIR SPECIFIC LOCATIONS AND ACROSSAGE.
- E. EVERGREEN SUBSTITUTE MATERIAL SHALL BE PROTECTED FROM SITE DEVELOPMENT ACTIVITIES IN ACCORDANCE WITH 34-2856(f). IF NOT PROTECTED, THE MATERIAL SHALL BE REPLACED.
- F. NO POSITION OF ANY PARKING AREA INCLUDING ANY DRIVEWAY, PARKING SPACE, DRIVE, BULK, OR TURNING AREA, SHALL BE LOCATED MORE THAN THIRTY (30) FEET FROM AN EXISTING ALLEY, DRIVE OR CANYON, THEREFORE, THE MATERIAL (75% FROM THE CENTER OF AN EXISTING LARGE TREE, 50% FROM THE CENTER OF AN EXISTING SMALL TREE, 25% FROM THE CENTER OF THE BASE OF THE CLOSEST QUADRANT TREE).
- G. THE MATERIAL SHALL BE PLANTED BY A LICENSED LANDSCAPE ARCHITECT OR LANDSCAPE DESIGNER. THE MATERIAL SHALL BE PROTECTED AS SHOWN ON THIS PLAN.
- H. THE TOTAL AMOUNT OF PLANT MATERIAL, ALL LETHED BY COMMON WEAL, SHALL CONSTITUTE NOT MORE THAN TWENTY-FIVE (25) PERCENT OF TOTAL REQUIREMENT FOR THE SPECIFIC CATEGORY:
- LARGE TREE CATEGORY**
PINE SP. SPECIES
- SMALL TREE CATEGORY**
PINE/STYCE PINE, BRANFORD PINE, CAPTIVA PINE, AND CLEVELAND BELLE FIRM
- SHRUB AND BUSH CATEGORY**
RED TIP YEW
- I. ALL GARDEN AND CONTAINERS, RECYCLING CONTAINERS OR COMPOSTERS SHALL BE ENCLOSED ON THREE (3) SIDES IN ACCORDANCE WITH 34-2820.
- J. ALL PARKING AREAS SHALL BE SCREENED IN ACCORDANCE WITH 34-2858(b) OF THE CITY CODE. VEGETATION MATERIALS SHALL BE EVERGREENS.
- K. A MINIMUM OF 3" CLEARANCE MUST BE MAINTAINED AROUND ALL FIRE HYDRANTS IN ACCORDANCE WITH STATE FIRE CODE.
- L. NO LARGE TREES TO BE PLANTED WITH GUC WATER OR SENIOR OR ANY OTHER UTILITY FACILITIES.

● **LED Street Light Locations (8)**
One light location not shown but will be located on access drive next to gate.



SITE DATA: SEE COVER SHEET C1

GENERAL NOTES:

1. CONTACT NORTH DAKOTA ONE-CALL CENTER, INC. (811) TO HAVE ALL UNDERGROUND UTILITIES LOCATED PRIOR TO EXCAVATING OR TRENCHING.
2. ALL UTILITIES TO BE PROVIDED BY OTHERS
3. ALL REQUIRED IMPROVEMENTS SHALL COMPLY WITH THE CITY OF GREENVILLE MANUAL OF STANDARD SPECIFICATIONS AND DETAILS AND THE CITY OF GREENVILLE CONTRACT OF WATER AND WASTEWATER SYSTEM EXTENSIONS FOR GREENVILLE UTILITIES COMMISSION.
4. PROPERTY IS LOCATED IN A ZONE 4F - FLOODWAY AREA DETERMINED TO BE INSIDE REGULATORY DESIGNATION AS IDENTIFIED BY THE NORTH DAKOTA FLOODPLAIN MAPBOOK, EFFECTIVE JULY 1, 2014.
5. REFUSE COLLECTION SHALL BE PROVIDED BY THE CITY OF GREENVILLE
6. NO BUILDINGS, STRUCTURES OR OTHER IMPROVEMENTS, MATERIALS AND SURFACES, INCLUDING BUT NOT LIMITED TO PRINCIPLE AND ACCESSORY STRUCTURES AND ADDITIONS AND APPURTENANCES THERETO, BUILDINGS, WALLS, FENCES, DRIVEWAYS, PORCHES, CANOPIES, ANTENNAS, MESH DEBRIS, SOLID WASTE COLLECTION CONTAINERS, MAIL RECEPTACLES AND IMPERVIOUS SURFACES SHALL ENCRUMPH WITHIN ANY ADJACENT EASEMENT WITHIN THE PROJECT LIMITS.
7. ALL DIMENSIONS ARE TO EDGE OF GRAVEL, UNLESS OTHERWISE NOTED.
8. ALL RADII ARE, IF UNLESS OTHERWISE NOTED (I/O N/A)
9. ANY PUBLIC INFRASTRUCTURE DAMAGED DURING THE COURSE OF CONSTRUCTION WILL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR AND/OR OWNER
10. SIGNAGE SHALL BE PER ARTICLE "N", GREENVILLE CITY CODE
 - a. B' CONCRETE, 4000 PSI W/ 6" GLASS WEAVE MESH FABRIC AT BOTH DUMPISTER LOCATIONS
11. RECOMBINATION PLAT REQUIRED TO COMBINE PARCEL 26467 AND 0107 INTO A SINGLE PARCEL.
12. EXISTING TREES THAT ARE PROTECTED BY VULNERABILITY REGULATION REQUIREMENTS:
 - a. ALTERNATE OR PROPOSED EASEMENT TRAIL, PROVIDED BY THE CITY OF GREENVILLE (GIS DATA)
13. EXISTING TREES ALONG OLD PACIFICUS ROAD N/2 15346 AND 16.264 / N/2 3811 WILL BE PROTECTED. TREE REMOVAL IS LIMITED TO THE 6.90 ACRES OF DISTURBED AREA (SEE LIMITS OF DISTURBANCE SHEET C4).

