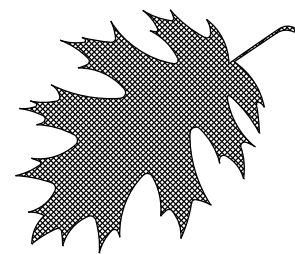
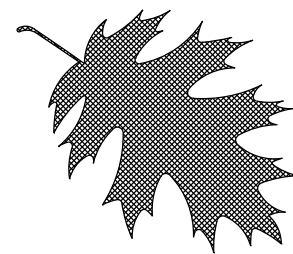


PROJECT: NC 179 & NC 904 OCEAN ISLE BEACH NC



HIGHWAY LANDSCAPE DEVELOPMENT PROJECT



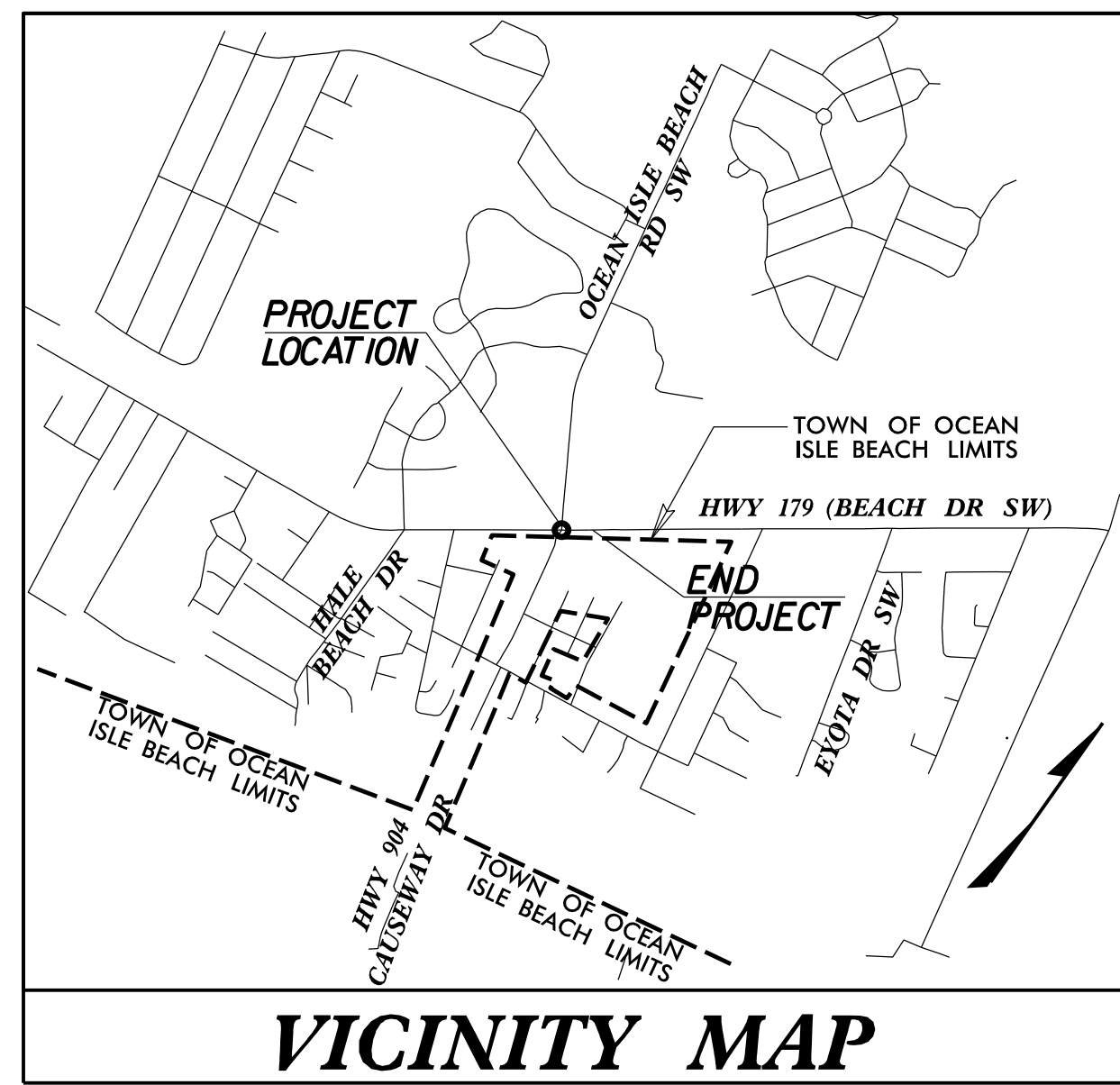
T.I.P. #	STATE PROJECT W.B.S. #	SHEET #	SHEET # TOTAL
-		L 1	5
FED. PROJ. #	DESCRIPTION		DIVISION
-	LANDSCAPE		3



PROJECT LOCATION

BRUNSWICK COUNTY LANDSCAPE ENHANCEMENT

LOCATION: NC 179 & NC 904, OCEAN ISLE BEACH NC
TYPE OF WORK: Roundabout Landscape Enhancement



SUMMARY OF QUANTITIES

Ocean Isle NC 179 NC 904 Roundabout					
Quan	Unit	Common Name	Botanical Name	Size	Notes
4	Ea	Sago Palm	Cycas revoluta	3'-4', #7 Cont	2'-3' spread
10	CY	Mulch			
240	SF	Segmented Retaining Wall			
5300	SF	Decorative Concrete Pavers			
5	CY	Incidental Concrete Construction			
180	CY	Fill Soil			sandy-loam
1	LS	Landscape Lights			
1	LS	Stain Application		on existing concrete apron	

CONVENTIONAL SYMBOLS

County Line	-----
City or Town Line	-----
Exist. Right of Way Line Marker	-----▲-----
Prop. Right of Way Line Marker (By Others)	-----▲-----
Prop Right of Way Line Marker (By Contract)	-----▲-----
Exist. Control of Access Line	-----○-----
Prop. Control of Access Line	-----○-----
Property Line	-----○-----
Easement Line	-----○-----
Slope Stake Line	-----○-----
Exist. Fence	-----○-----
Prop. Woven Wire Fence	-----○-----
Prop. Chain Link Fence	-----○-----
Exist. Road	=====
Prop. Road	=====
Guardrail	=====
Survey Line	-----○-----
Denotes Line Equality	-----○-----
Bridge	=====
Culvert	=====
Railroad	=====
Woods	=====
Exist. Telephone Pole	-----○-----
Prop. Telephone Pole	-----○-----
Tower Pole and Line	-----○-----
Exist. Power Pole	-----○-----
Prop. Power Pole	-----○-----
Sanitary Sewer Line	-----○-----
Water Line	-----○-----
Gas Line	-----○-----
Picnic Shelter	-----○-----
Regeneration	-----○-----
Reforestation	-----○-----

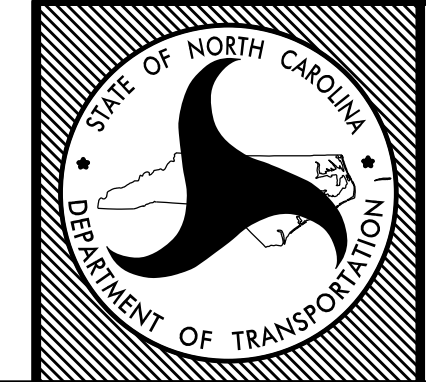
INDEX OF L SHEETS:

- L 1 ... TITLE, DESCRIPTION, LOCATION
- L 2 ... PLANTING DETAILS
- L 3 ... LANDSCAPE PLAN
- L 4 ... SPOT ELEVATIONS PLAN.
LANDSCAPE LGT DETAILS
- L 5 ... SUPPORT GRAPHICS

PREPARED BY: BK DATE: 12/2018

REVISIONS

DATE	DESCRIPTION
2-2019	Add Lgts + Graphics
4-8-19	Title, L3, L4, L5

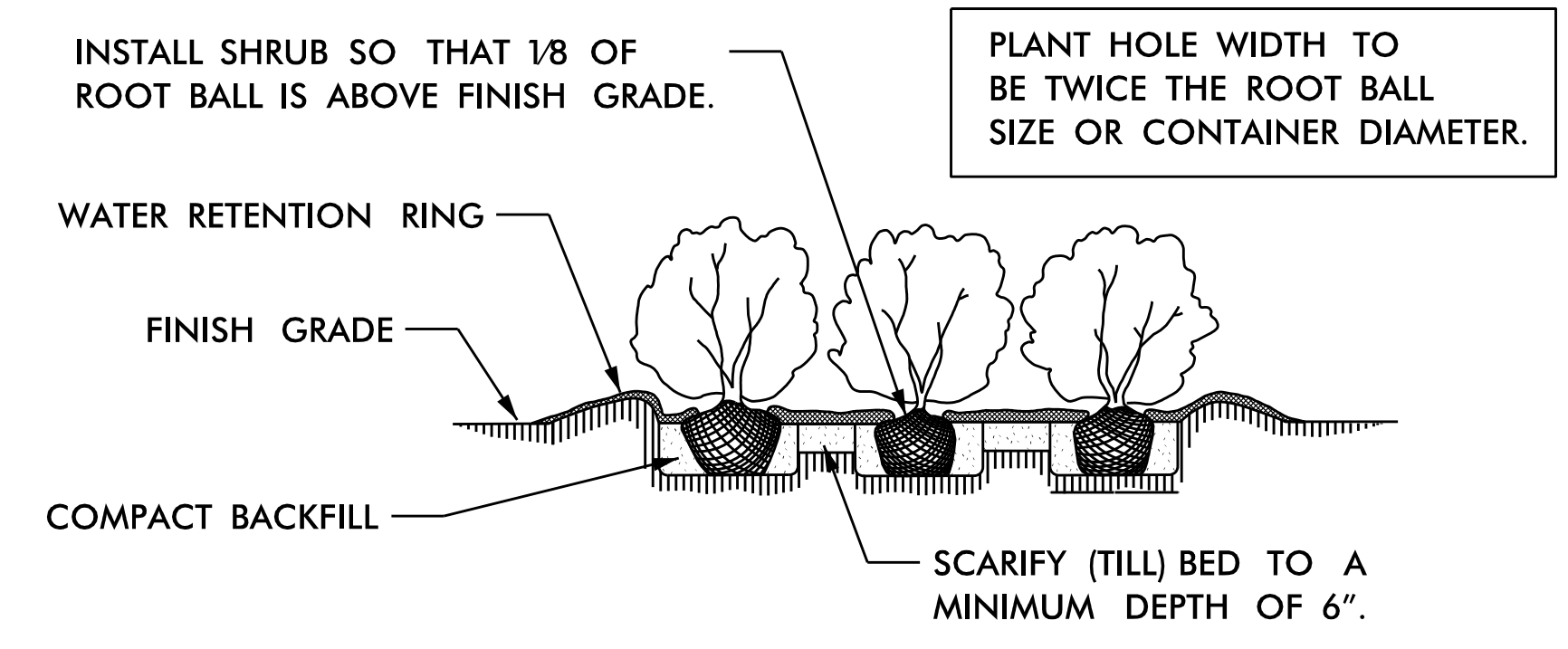
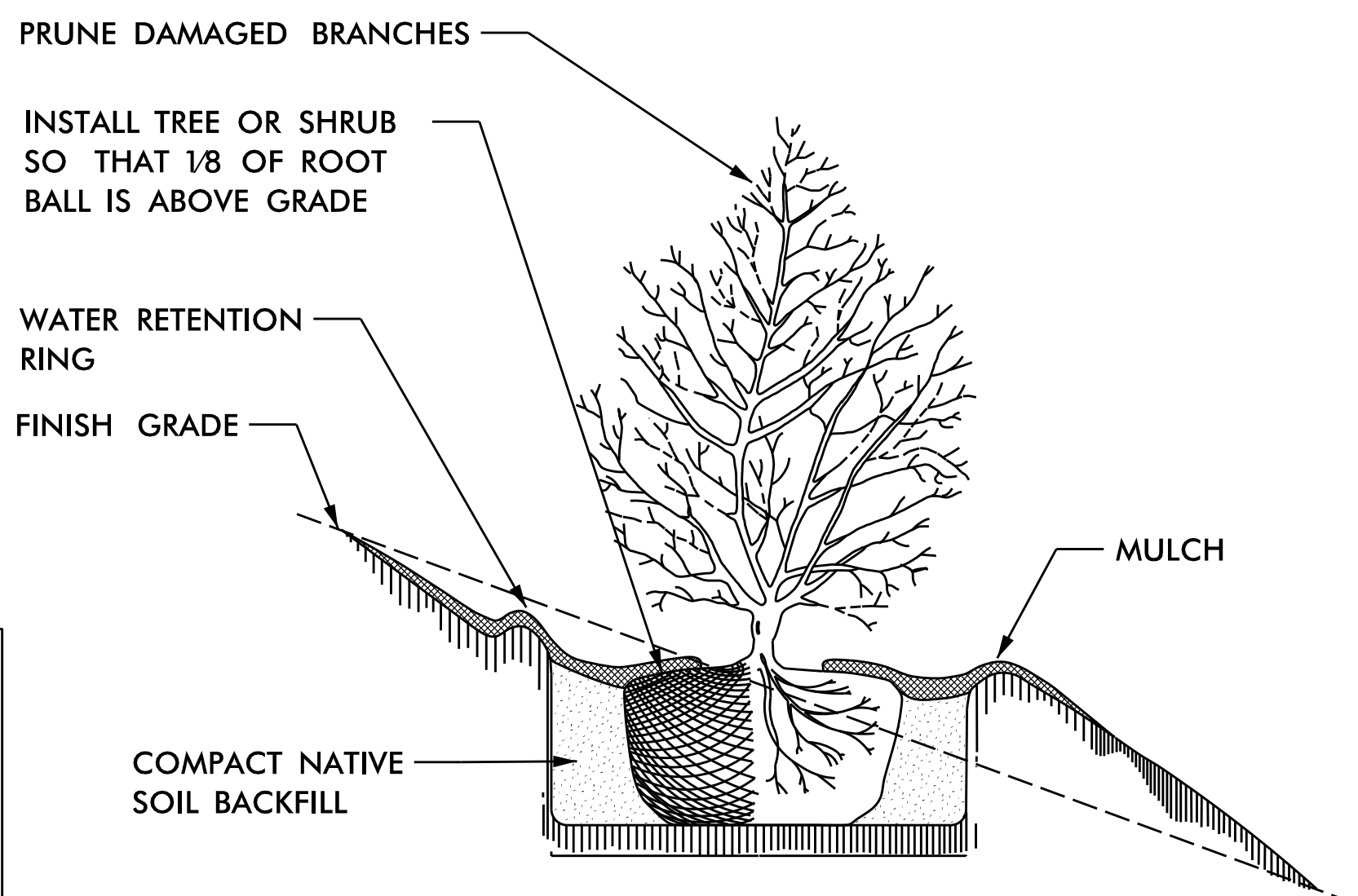
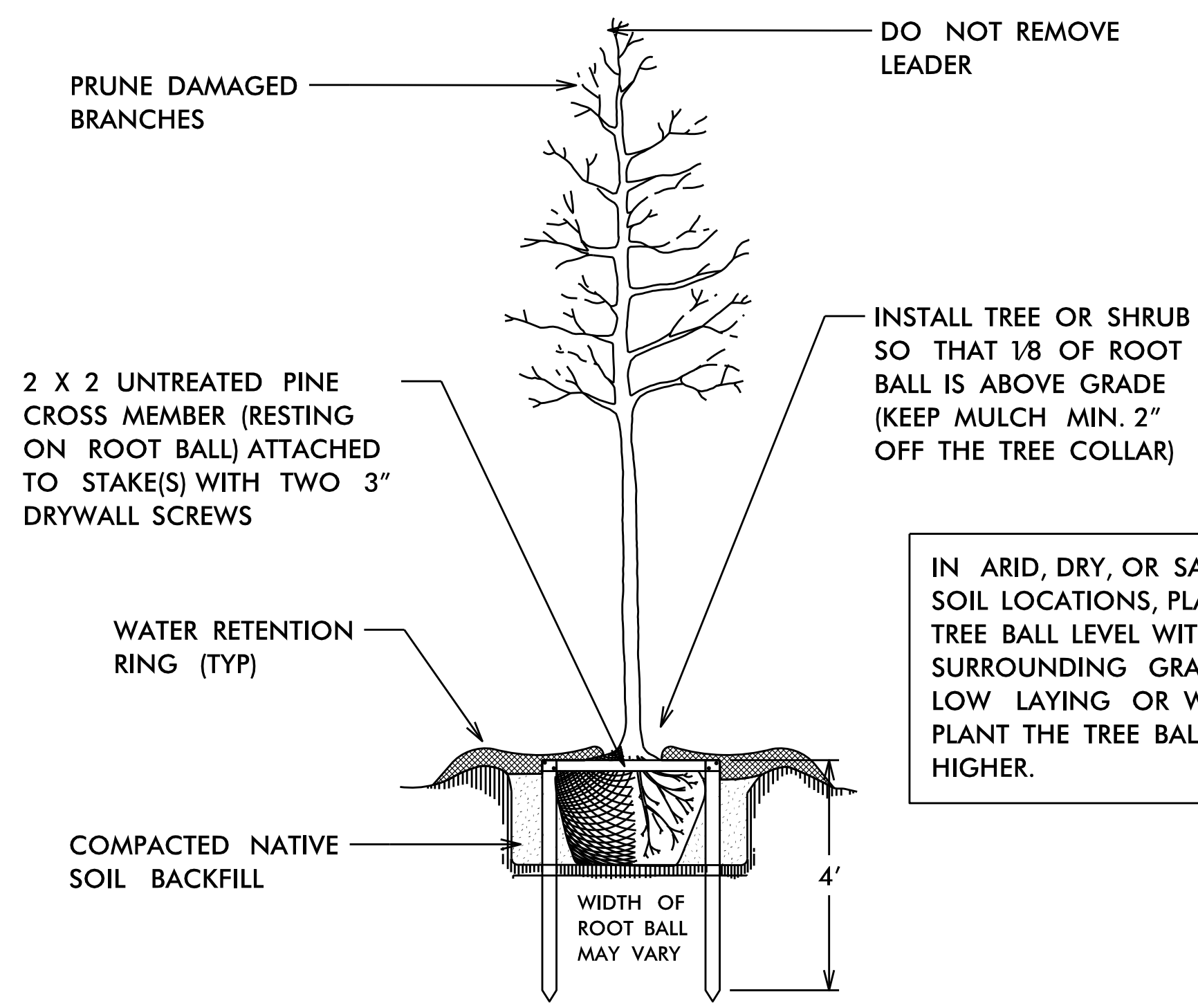


STATE OF
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

LOCATION: NC 179 & NC 904, OCEAN ISLE BEACH NC
TYPE of WORK: Roundabout Landscape Enhancement
COUNTY: BRUNSWICK COUNTY

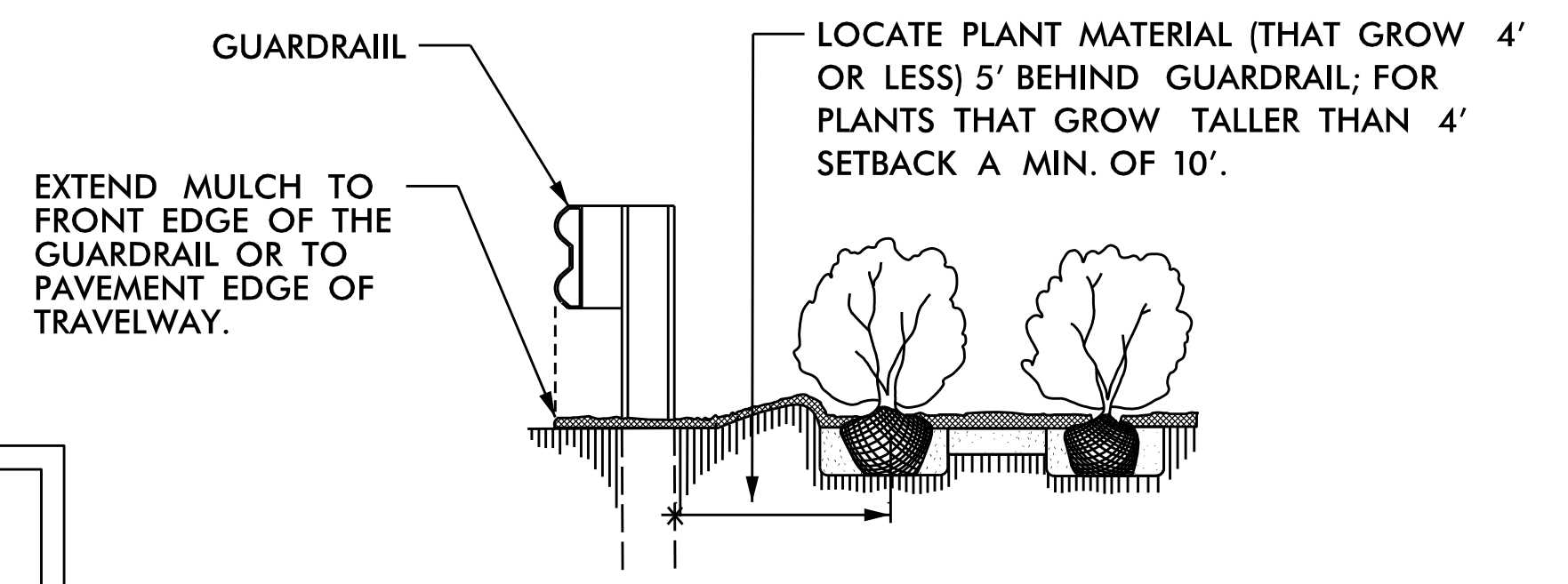
2014 American Standard for Nursery Stock
2018 NCDOT STANDARD SPECIFICATIONS
PREPARED IN THE OFFICE OF:
NCDOT- ROADSIDE ENVIRONMENTAL UNIT
LANDSCAPE DESIGN & DEVELOPMENT SECTION
1557 MAIL SERVICE CENTER
RALEIGH NC 27699 919-707-2920

\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$USER\$\$\$\$\$

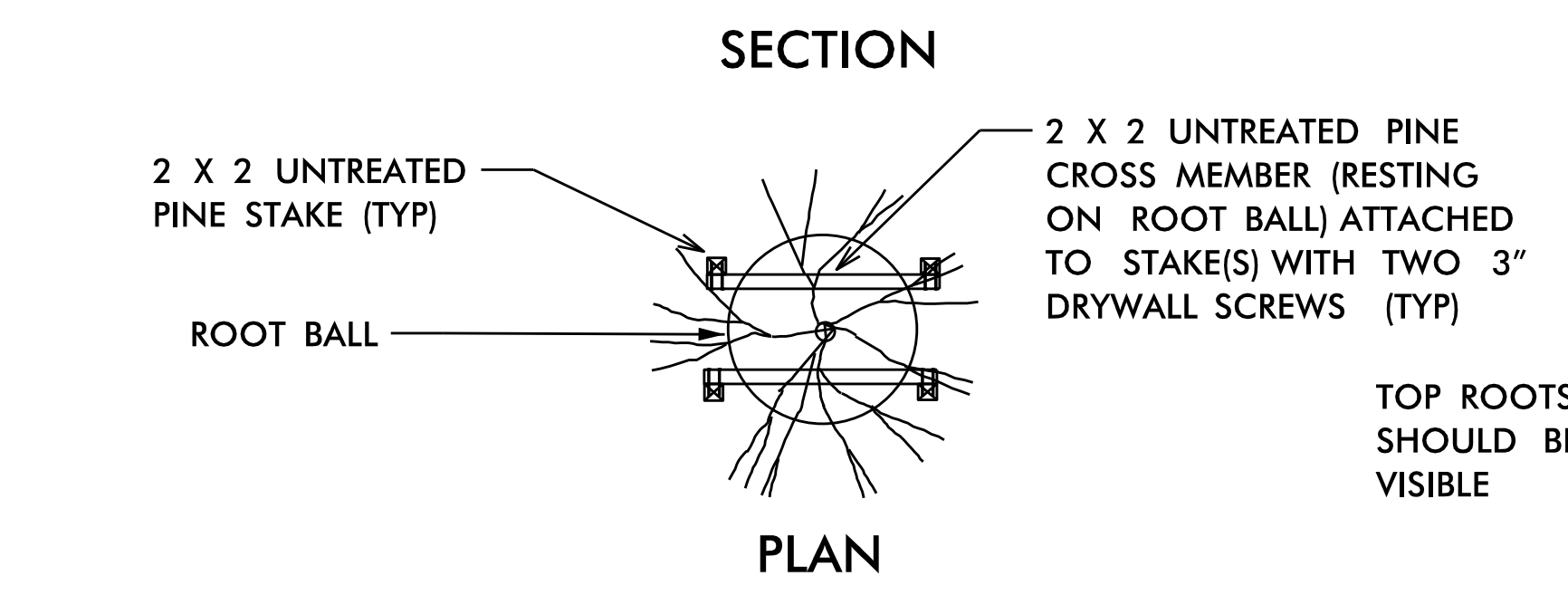


SHRUB BED PLANTING DETAIL

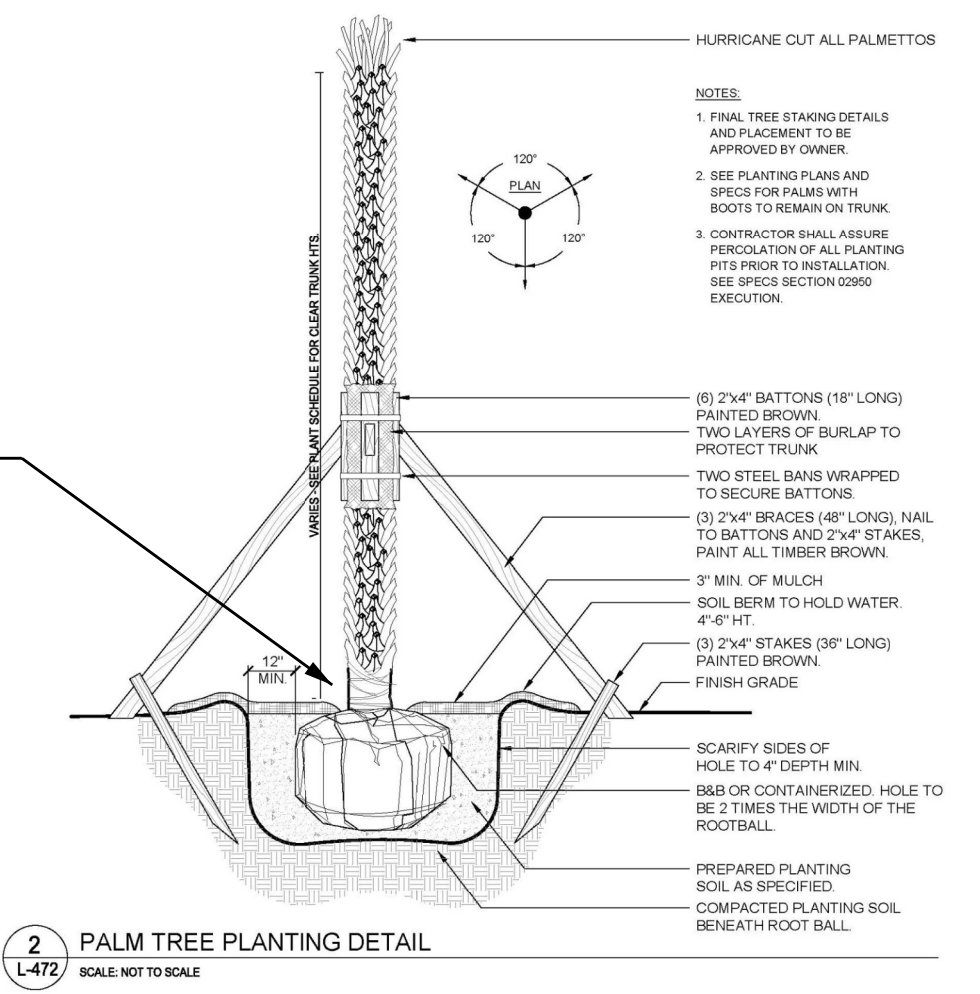
TREE OR SHRUB PLANTING DETAIL (SLOPING GROUND)



GUARDRAIL MULCHING DETAIL
USE AS DIRECTED BY FIELD ENGINEER



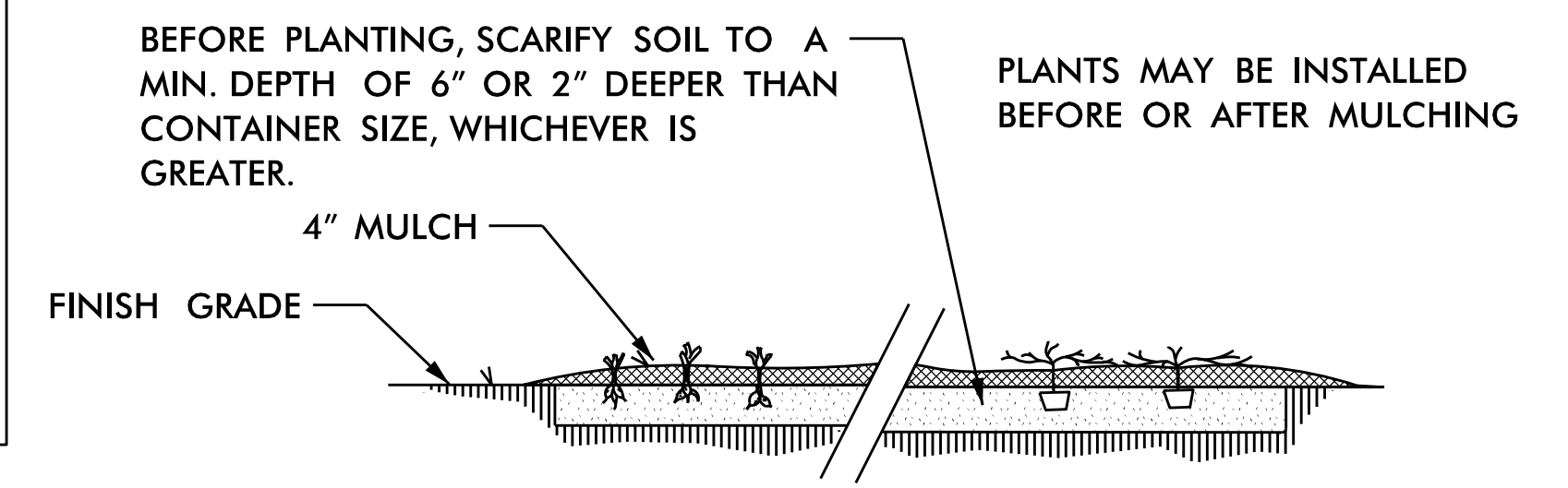
TREE PLANTING & ROOT BALL STAKING DETAIL (STAKE TREES 8' OR TALLER)



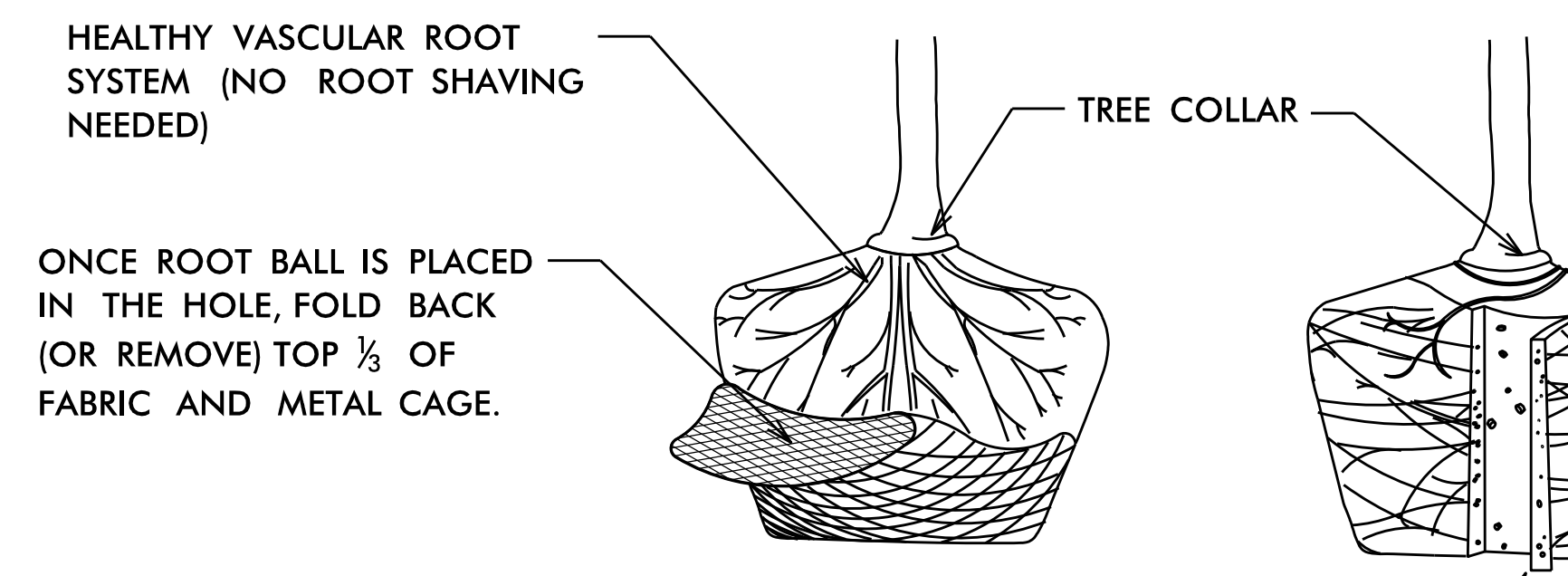
PALM TREE PLANTING DETAIL
SCALE: NOT TO SCALE

NOTES:

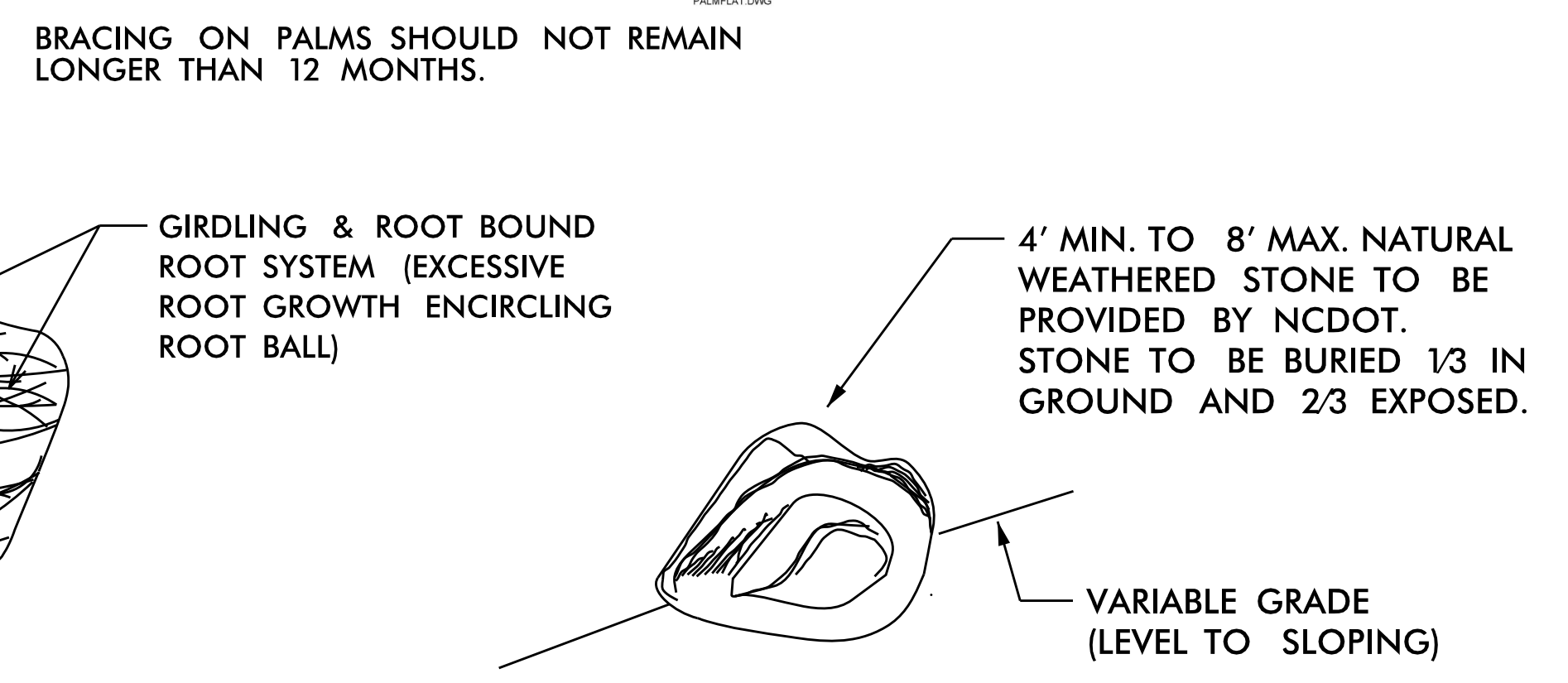
- PLANT HOLE WIDTH TO BE TWICE THE ROOT BALL SIZE OR CONTAINER DIAMETER.
- APPLY HERBICIDES A MIN. OF 7 DAYS PRIOR TO PLANTING, BY LABEL INSTRUCTIONS, OR AS DIRECTED BY THE NCDOT ENGINEER.
- APPLY FERTILIZER AT PLANTING TIME IN THE FORM OF A SLOW RELEASE PELLET OR TABLET. APPLY AT RATE RECOMMENDED BY MANUFACTURER. BOTH RATE AND FORMULATION MUST BE APPROVED BY FIELD ENGINEER PRIOR TO APPLICATION.
- ALL PRUNING TO FOLLOW STANDARD ARBORICULTURAL PRACTICES AS SPECIFIED BY INTERNATIONAL SOCIETY OF ARBORICULTURE.
- DO NOT ATTEMPT TO STRAIGHTEN A TREE THAT HAS BEEN PLANTED AT AN ANGLE WITH THE USE OF STAKING OR GUYING. DIG TREE AND REPLANT TO UPRIGHT POSITION.



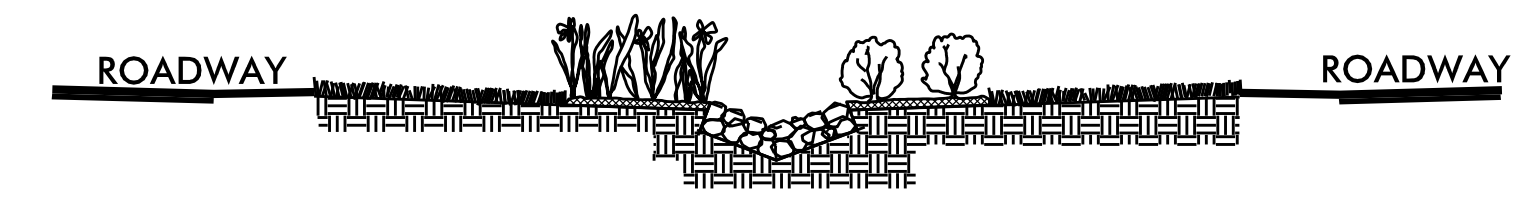
GROUND COVER/BEDDING PLANT DETAIL



TREE PLANTING INSTRUCTIONS (FOR CONTAINER OR BALLED & BURLAPPED TREES)

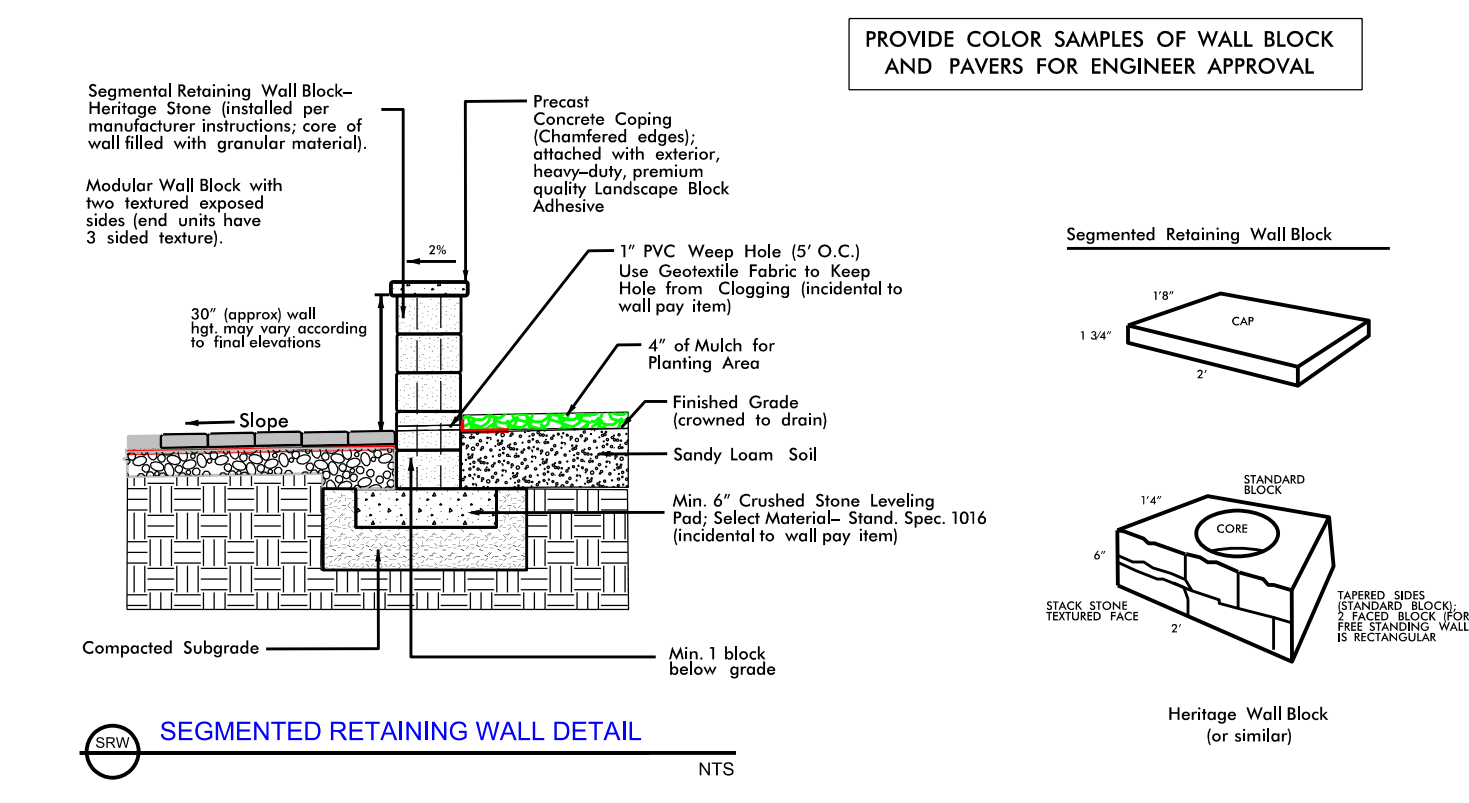
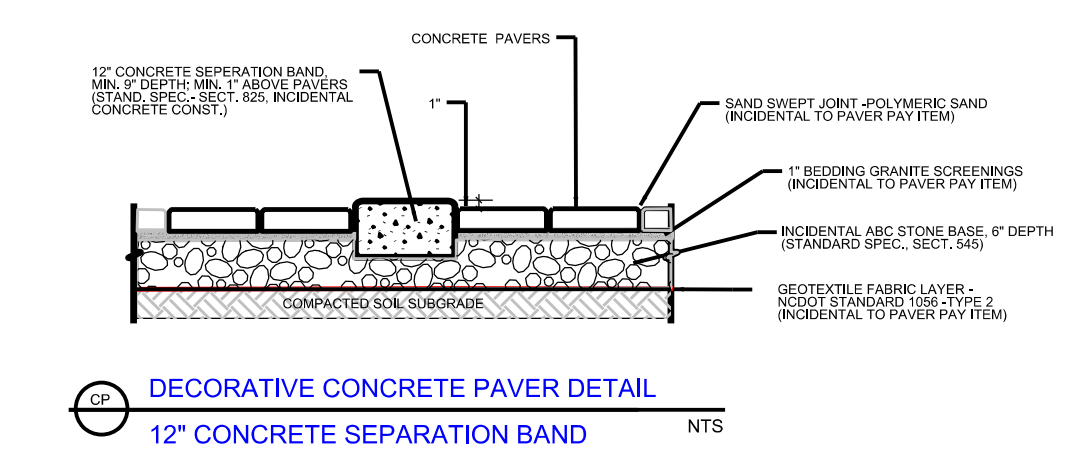
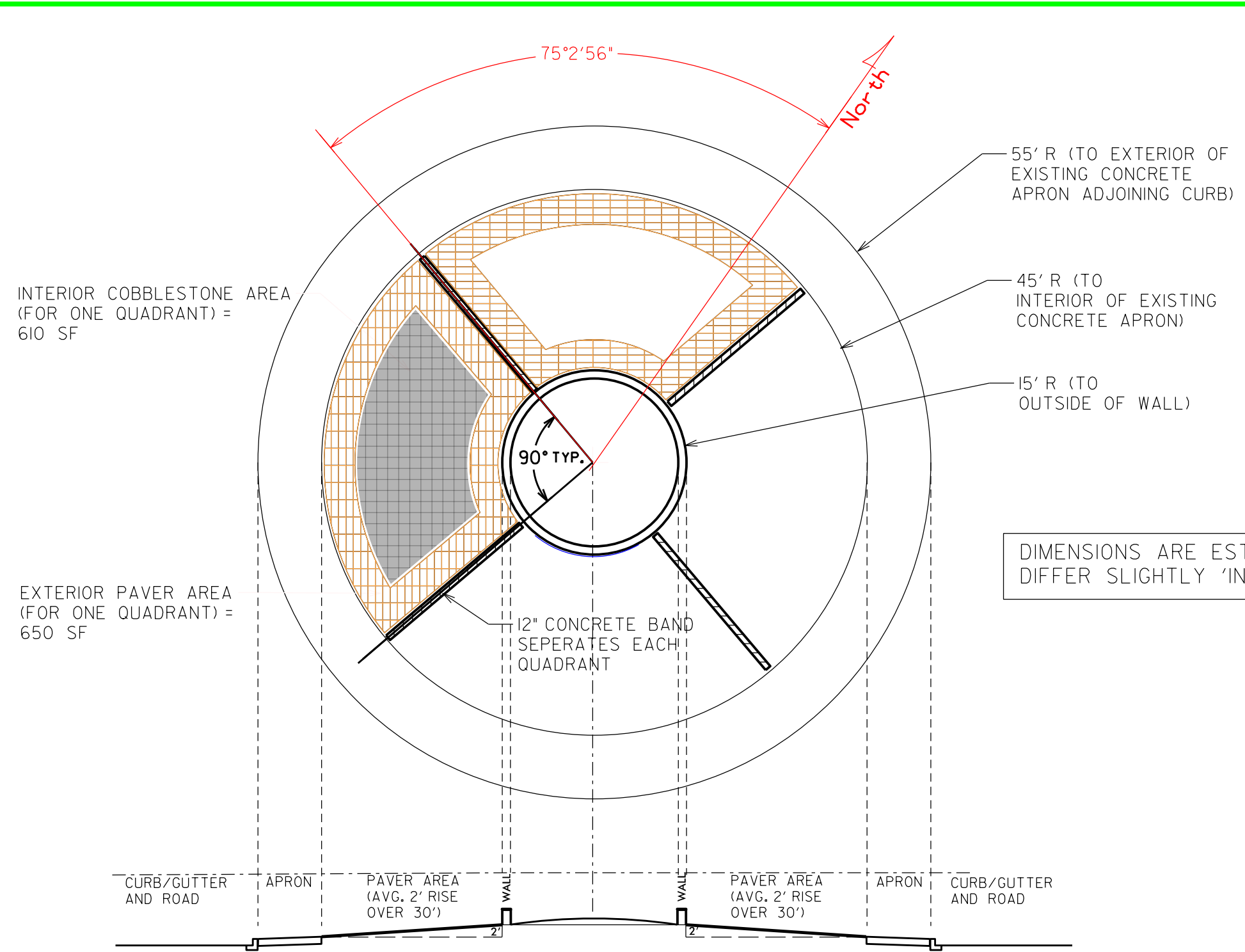


BOULDER PLACEMENT DETAIL TYPICAL



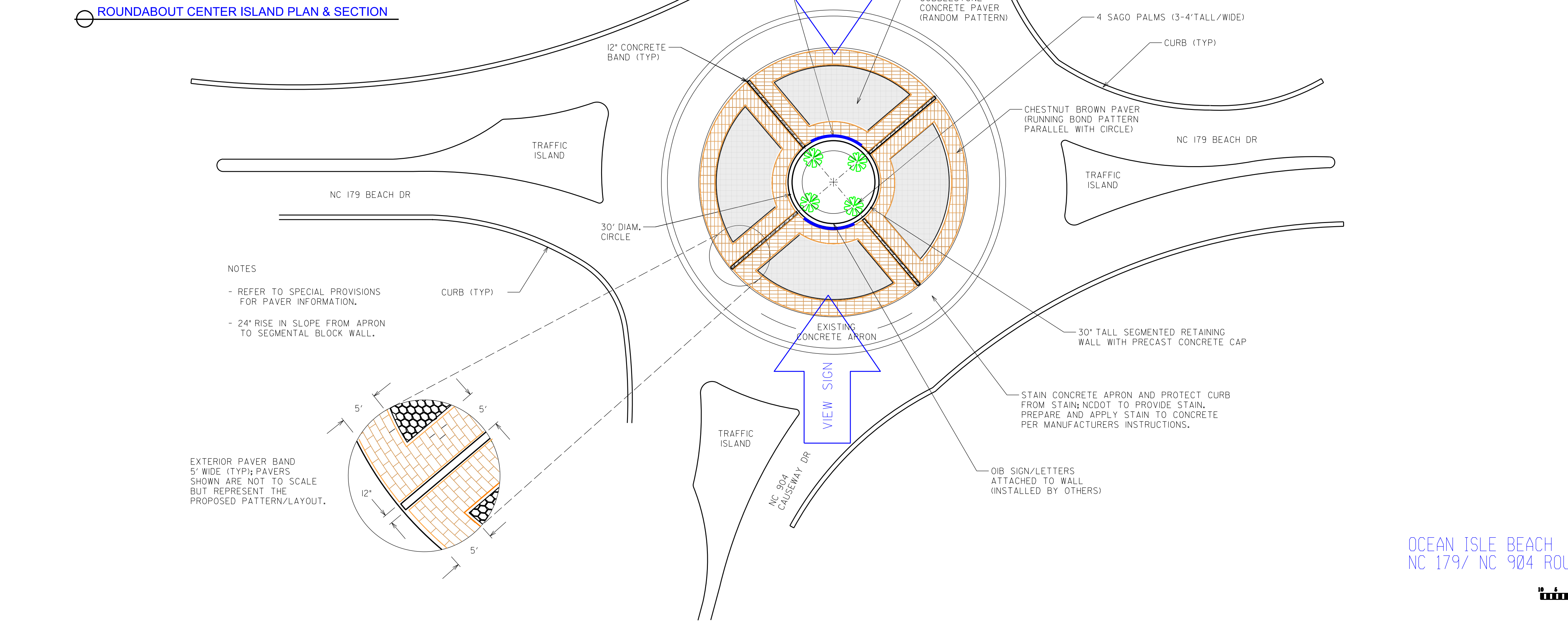
CLASS "A" STONE DITCH LINING DETAIL
MIN. 12" DEEP CLASS "A" STONE ON FILTER FABRIC LINER IN DITCH. PLACE STONE FLUSH WITH DITCH GRADE FOR MAXIMUM WATER FLOW.

North Carolina Department of Transportation Roadside Environmental Unit Aesthetic Engineering Section		
	PROJECT TITLE : Roundabout @ NC 179 & NC 904 NC Landscape Enhancement OCEAN ISLE BEACH Brunswick County	
	Plans Drawn By: BK	Scale
Date 12 / 17 / 2018	Sheet Description Planting Details	T.I.P. #
Sheet # 12		



ROUNDABOUT CENTER ISLAND PLAN & SECTION

SEGMENTED RETAINING WALL DETAIL NTS

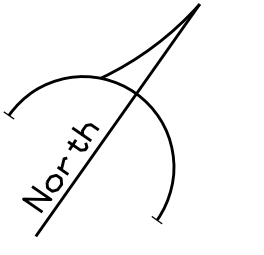
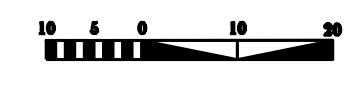


NOTES

- REFER TO SPECIAL PROVISIONS FOR PAVER INFORMATION.
- 24" RISE IN SLOPE FROM APRON TO SEGMENTAL BLOCK WALL.

EXTERIOR PAVER BAND 5' WIDE (TYP); PAVERS SHOWN ARE NOT TO SCALE BUT REPRESENT THE PROPOSED PATTERN/LAYOUT.

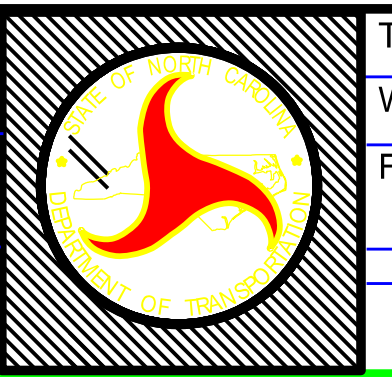
OCEAN ISLE BEACH
NC 179/ NC 904 ROUNDABOUT



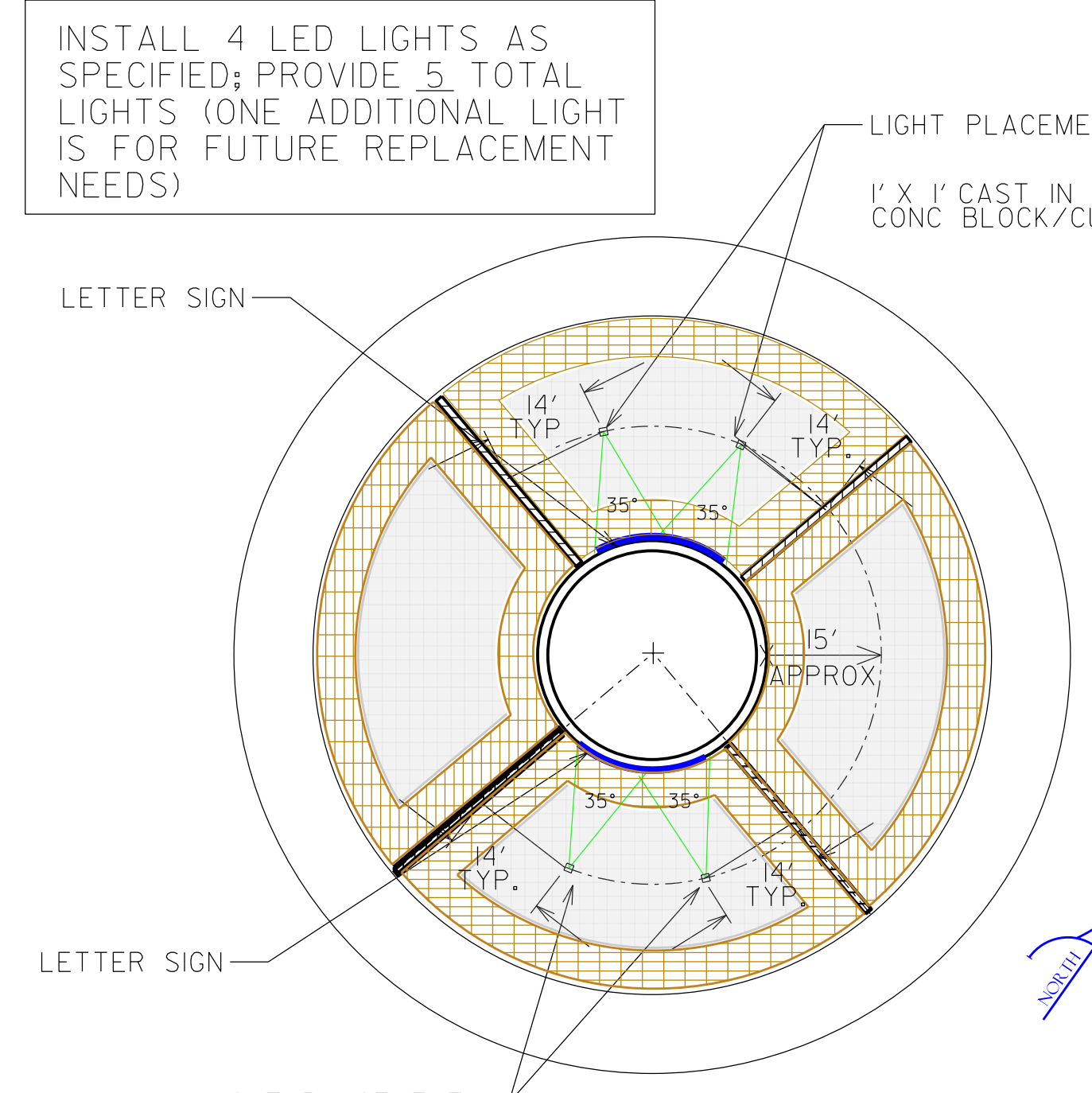
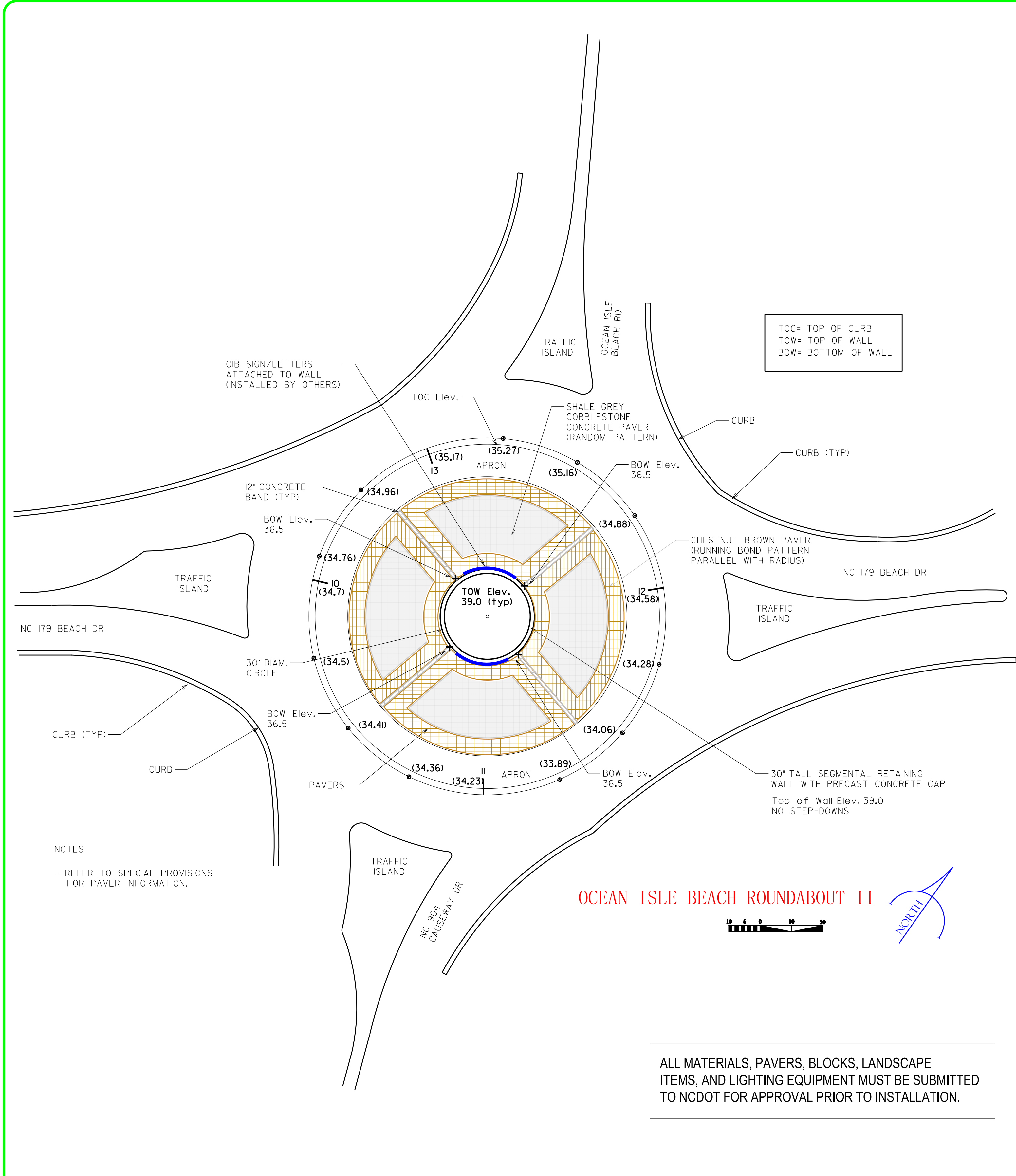
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prel. design date :	Dec/2018
checked by & date :	
final design date :	

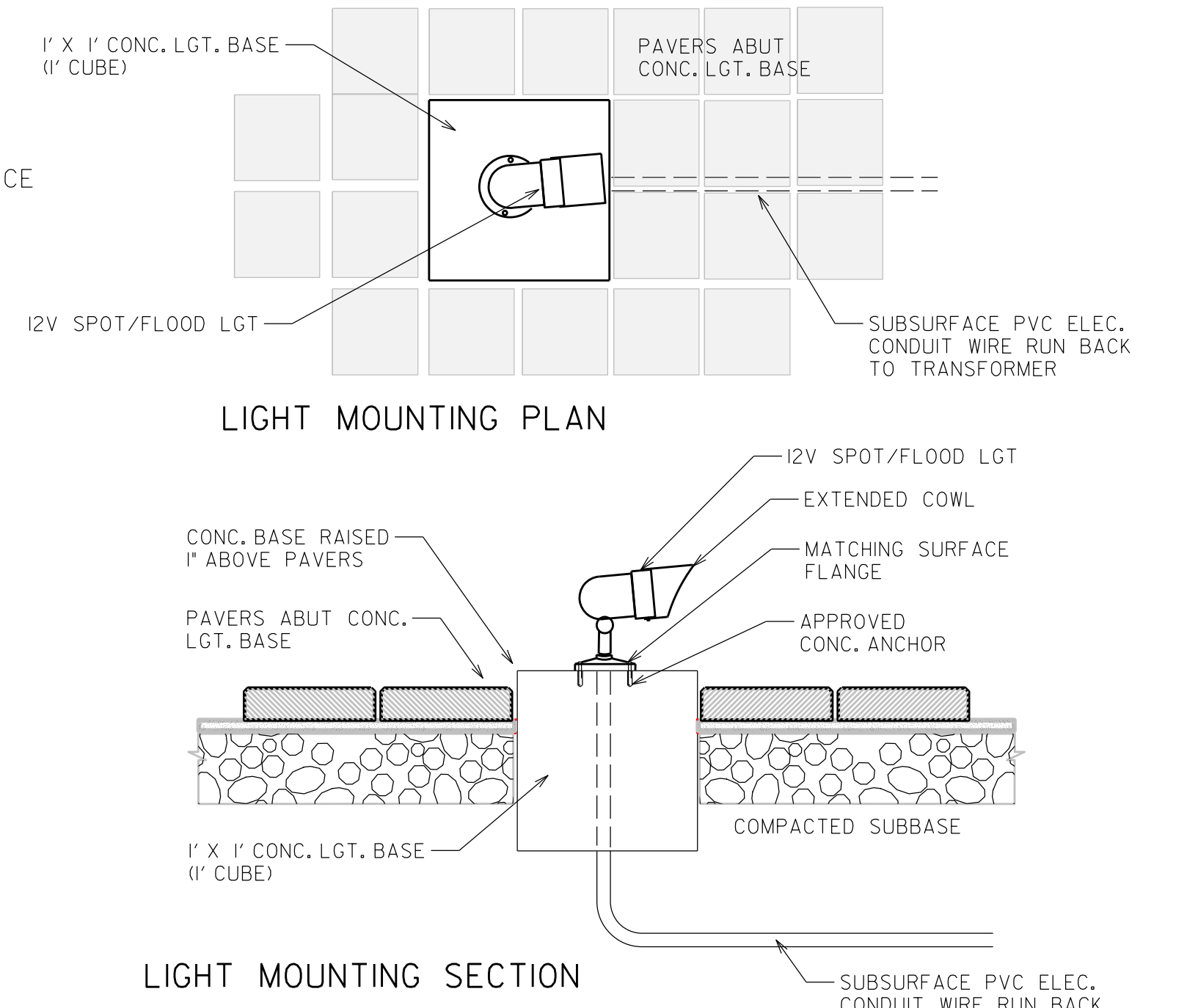
Roundabout Landscape
Enhancements



T.I.P. #	
WBS #	
FED I.D. #	
sheet no :	total sheet no :
L3	5



ROUNDABOUT LIGHT PLACEMENT



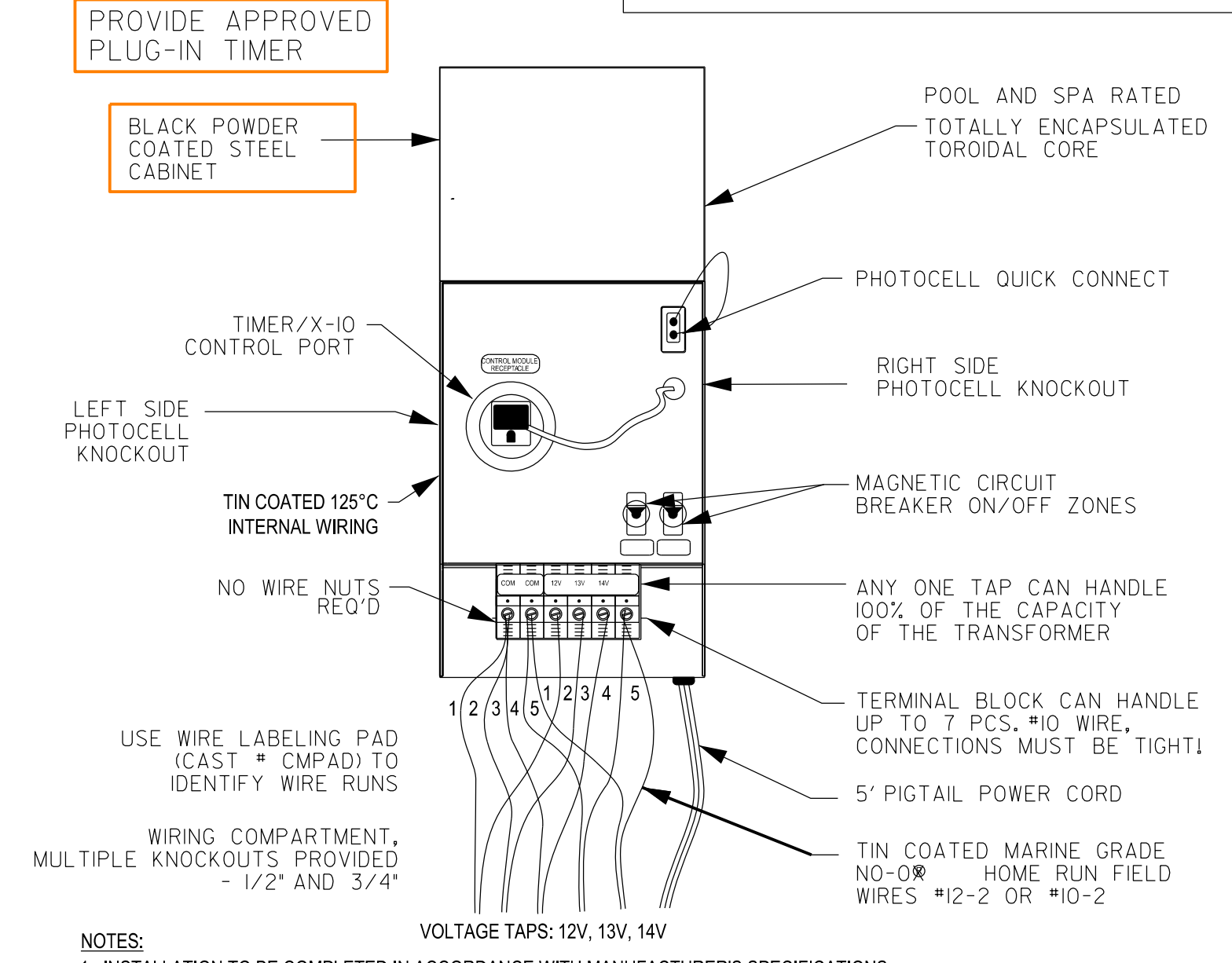
LIGHT MOUNTING SECTION

LED SPOT/FLOOD LIGHT

- 12V OPERATION
- MIN. 6.5 WATTS (MULTI-LED CONFIGURATION) WITH COOL BRIGHT KELVIN TEMPERATURE RATING.
- 35° BEAM SPREAD
- ANTIQUE BRONZE/BRASS BODY AND BASE
- MIN. 4 FOOTCANDLES AT 16'
- EST. LIFE 40,000 HRS (MIN. 5 YR. WARRANTY TRANSFER TO OWNER)
- 12G WIRE RUNS (BACK TO TRANSFORMER) IN CONDUIT; ALL CONNECTIONS MADE WITH WATER PROOF GEL CONNECTORS.
- BURY ADDITIONAL 3' OF WIRE LINE ON TRANSFORMER END FOR FUTURE MAINTENANCE ACCESS.
- UPON INSTALLATION OF LIGHTS, THE CONTRACTOR MUST MEASURE AND CONFIRM PROPER OPERATING VOLTAGE AT FIXTURE.

PROVIDE LED SPOT/FLOOD TO ILLUMINATE EVENLY OVER OCEAN ISLE BEACH LETTER SIGN (LETTERS PROVIDED BY OTHERS).

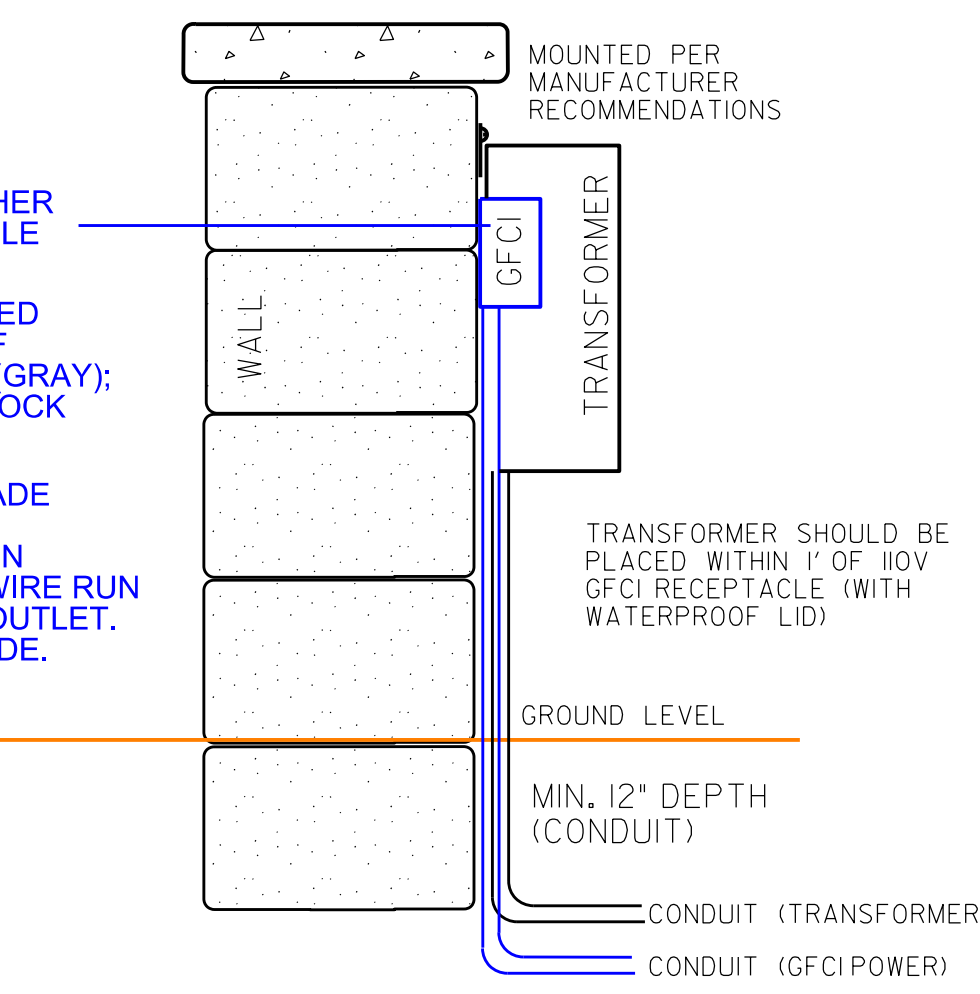
SUBMIT PROPOSED LIGHTS AND TRANSFORMER FOR ENGINEER APPROVAL; SUPPLY PHOTOMETRICS WITH THE LIGHTS.



- NOTES:**
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 2. DO NOT SCALE DRAWINGS.
 3. ENSURE THAT HOME RUN WIRES ARE TIGHT IN THE TERMINAL BLOCKS. LOOSE/POOR CONNECTIONS WILL MELT THE BLOCK AND DAMAGE THE TRANSFORMER.
 4. INCLUDES FIELD REPAIRABLE BREAKERS, TERMINAL, TIMERS AND PHOTOCELL.

300W TRANSFORMER MULTI-TAP (TYP)

NOTED TRANSFORMER MAY BE SUBSTITUTED WITH A COMPARABLE L.E.D. TRANSFORMER (WITH BUILT IN TIMER) UPON APPROVAL OF LANDSCAPE ARCHITECT/ ENGINEER.



PLACE TRANSFORMER ON BACKSIDE OF WALL (NOT VISIBLE FROM ROAD)

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NCDOT - Roadside Environmental Unit
Aesthetic Engineering Section
 1557 Mail Service Center Raleigh NC 27699-1557
 ph: 919-707-2920 fax: 919-715-2554
http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/

Roundabout @ NC 179 and NC 904
Landscape Development Plan
Ocean Isle Beach, NC

PN Kopetsky

prel. design date :	Dec/2018
checked by & date :	
final design date :	

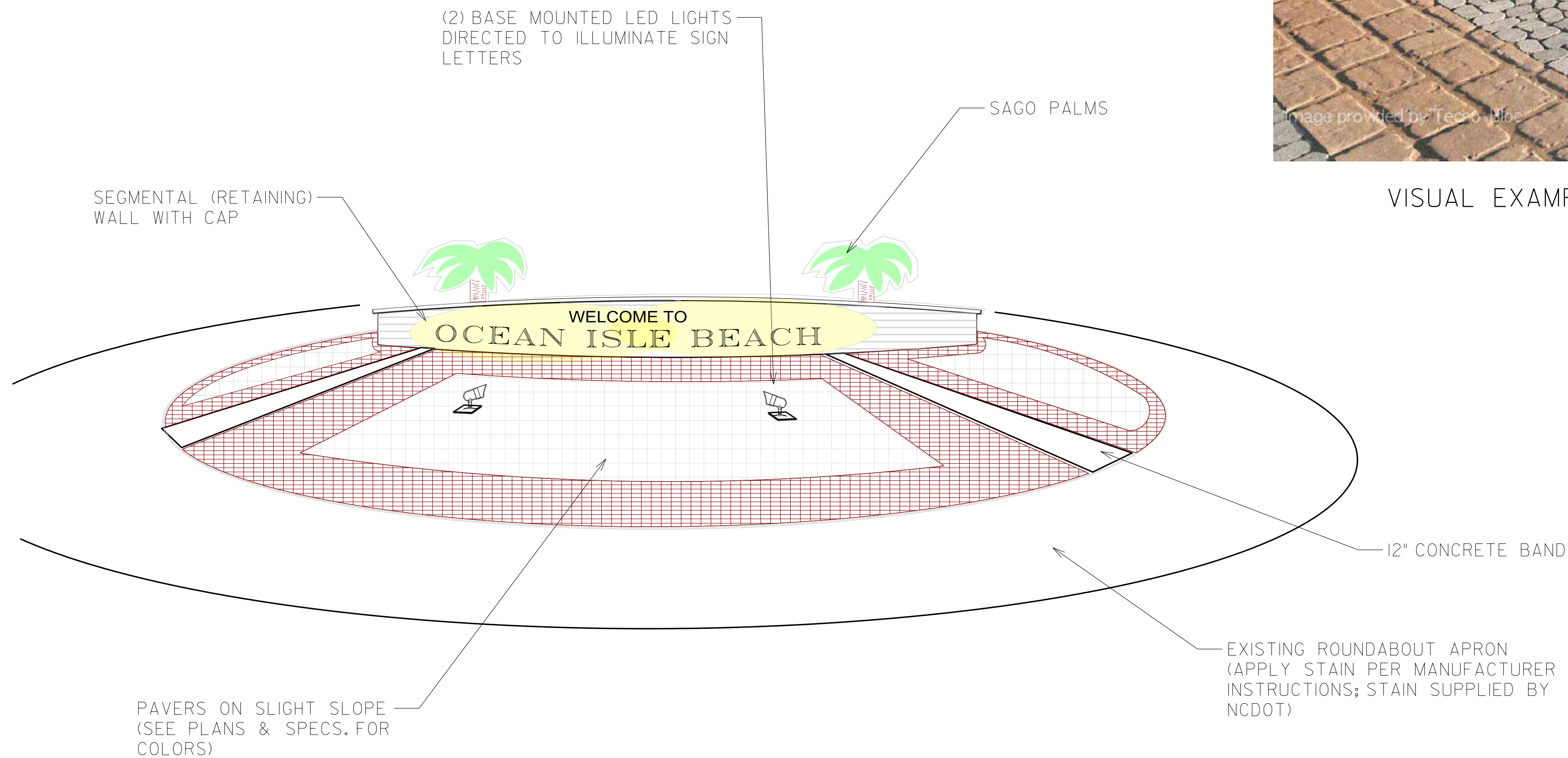
Roundabout Landscape
Enhancements
SPOT ELEVATIONS & LANDSCAPE LGT DETAILS

T.I.P. #	
WBS #	
FED I.D. #	
sheet no :	total sheet no :
L4	5

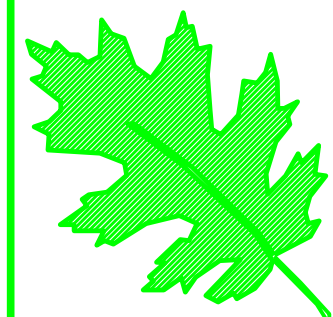
GRAPHIC EXAMPLES ARE FOR VISUAL PERSPECTIVE ONLY; NOT TO BE USED FOR CONSTRUCTION.



VISUAL EXAMPLE OF PAVER PATTERN & COLORS



SCHEMATIC DRAWING



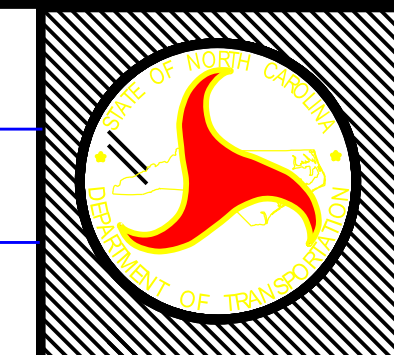
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http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/

Roundabout @ NC 179 and NC 904
Landscape Development Plan
Ocean Isle Beach, NC

RN Kopetsky

sheet description:	prel. design date : Mar/2019
	checked by & date :
	final design date :

Roundabout Landscape
GRAPHIC IMAGES



T.I.P. #	
WBS #	
FED I.D. #	
sheet no :	total sheet no :
L5	5

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