

















PLANT SCHEDULE		
SYMBOL	CODE	BOTANICAL / COMMON NAME
SHRUBS		
	BUX GEM	Buxus 'Green Gem' Boxwood 'Green Gem'
	GAR FRO	Gardenia jasminoides 'Frostproof' Frostproof Gardenia
	HYD LTL	Hydrangea paniculata 'Lime' TM Little Lime Panicle Hydrangea
	PRU OTT	Prunus laurocerasus 'Otto Luyken' Otto Luyken English Laurel
	THU SMA	Thuja occidentalis 'Smaragd' Emerald Green Arborvitae
SHRUB AREAS		
	AMS EBD	Amsonia tabernaemontana 'Blue Ice' Strom Cloud Eastern Bluestar
	CAR EVL	Carex oshimensis 'Everillo' TM EverColor Everillo Japanese Sedge
	HEL SBY	Helianthus x hybridus Helianthus
	LIA SPI	Liatris spicata Blazing Star
	MUH EIN	Muhlenbergia capillaris Pink Muhly Grass
	PAN SHD	Panicum virgatum 'Shenandoah' Shenandoah Switch Grass
	PER LIT	Perovskia atriplicifolia 'Little Spire' Little Spire Russian Sage
	SPO TAR	Sporobolus heterolepis 'Tara' Tara Prairie Dropseed
GROUND COVERS		
	PAC TER	Pachysandra terminalis Japanese Spurge
	TRA ASI	Trachelospermum asiaticum Asiatic Jasmine
	TUR SOD	Turf Sod Sod

KEY MAP

SEAL

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PROJECT

**UNIVERSITY
PLACE PHASE
1B/1C**

RAM REALTY

201 S ESTES DR

CHAPEL HILL, NC 27514

LANDDESIGN PROJ.# 1019418

REVISION / ISSUANCE

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7	ZCP REVISION	03.20.2023
8	ASI #1	09.15.2023
9	ZCP REVISION	05.20.2024

DESIGNED BY: LD
DRAWN BY: ZK
CHECKED BY: AM

SCALE

VERT: N/A
HORZ: 1"=20'

SHEET TITLE

**SUPPLEMENTAL PLANTING
ENLARGEMENT 4**



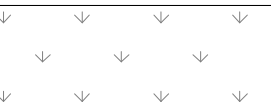

SHEET NUMBER

L5-04

PHASE 1B SUPPLEMENTAL PLANTING SCHEDULE

PLANT SCHEDULE									
SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	MIN. CONT.	SPACING	MIN. HT.		REMARKS
SHRUBS									
	BUX GEM	338	Buxus 'Green Gem'	Boxwood 'Green Gem'	#3	As Shown	24"		FULL TO CONTAINER
	GAR FRO	9	Gardenia jasminoides 'Frostproof'	Frostproof Gardenia	#3	As Shown	36"		FULL TO CONTAINER
	HYD LTL	24	Hydrangea paniculata 'Jane' TM	Little Lime Panicle Hydrangea	#3	As Shown	36"		FULL TO CONTAINER
	PRU OTT	24	Prunus laurocerasus 'Otto Luyken'	Otto Luyken English Laurel	#3	As Shown	30"		FULL TO CONTAINER
	THU SMA	5	Thuja occidentalis 'Smaragd'	Emerald Green Arborvitae	#5/7	As Shown	48"		FULL TO CONTAINER. STRON CENTRAL LEADER, UPRIGHT GROWTH.
SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	MIN. CONT.	SPACING	MIN. HT.	SPACING	REMARKS
SHRUB AREAS									
	AMS EBD	61	Amsonia tabernaemontana 'Blue Ice'	Strom Cloud Eastern Bluestar	#1	30" O.C.	18-24"	30" o.c.	FULL TO CONTAINER.
	CAR EVL	481	Carex oshimensis 'Everillo' TM	EverColor Everillo Japanese Sedge	#1	18" O.C.	12"	18" o.c.	FULL TO CONTAINER
	HEL SBY	106	Helleborus x hybridus	Hellebore	#1	18" O.C.		18" o.c.	FULL TO CONTAINER
	LIA SPI	756	Liatris spicata	Blazing Star	#1	18" O.C.	12"	18" o.c.	FULL TO CONTAINER
	MUH EIN	417	Muhlenbergia capillaris	Pink Muhly Grass	#3	30" O.C.	18-24"	30" o.c.	FULL TO CONTAINER.
	PAN SHD	77	Panicum virgatum 'Shenandoah'	Shenandoah Switch Grass	#1	36" O.C.	36"	36" o.c.	FULL TO CONTAINER
	PER LIT	104	Perovskia atriplicifolia 'Little Spire'	Little Spire Russian Sage	#1	24" O.C.	24"	24" o.c.	FULL TO CONTAINER.
	SPO TAR	191	Sporobolus heterolepis 'Tara'	Tara Prairie Dropseed	#1	24" O.C.	12"	24" o.c.	FULL TO CONTAINER
GROUND COVERS									
	PAC TER	295	Pachysandra terminalis	Japanese Spurge	#SP4	15" O.C.	6"	15" o.c.	FULL TO CONTAINER
	TRA ASI	267	Trachelospermum asiaticum	Asiatic Jasmine	#SP4	15" O.C.	6"	15" o.c.	FULL TO CONTAINER
	TUR SOD	5,906 sf	Turf Sod	Sod	SOD	-	-		

PHASE 1C SUPPLEMENTAL PLANTING SCHEDULE

PLANT SCHEDULE								
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	MIN. CONT.	SPACING	MIN. HT.	REMARKS
	PRU OTT	17	Prunus laurocerasus 'Otto Luyken'	Otto Luyken English Laurel	#3	As Shown	30"	FULL TO CONTAINER
SHRUB AREAS	CODE	QTY	BOTANICAL NAME	COMMON NAME	MIN. CONT.	SPACING	MIN. HT.	REMARKS
	MUH EIN	214	Muhlenbergia capillaris	Pink Muhly Grass	#3	30" O.C.	18-24"	FULL TO CONTAINER.
TURF	CODE	QTY	BOTANICAL NAME	COMMON NAME	MIN. CONT.	SPACING	MIN. HT.	REMARKS
	TUR SEE	38,283 sf	Turf Grass	SEED	SEED			
	TUR SOD	3,779 sf	Turf Grass	SOD	SOD	-	-	

NOTE: HOLD ALLOWANCE FOR PLANTER POT PLANTINGS THAT CONSIST OF 25% GROUND COVER, 50% SMALL HERBACEOUS PERENNIAL, AND 25% SMALL EVERGREEN PERENNIAL.

KEY MAP

SEAL

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**UNIVERSITY
PLACE PHASE
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RAM REALTY
201 S ESTES DR
CHAPEL HILL, NC 27514

LANDDESIGN PROJ.#
1019418

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DESIGNED BY: LD
DRAWN BY: ZK
CHECKED BY: AM

SCALE NORTH

VERT: N/A
HORZ:

SHEET TITLE

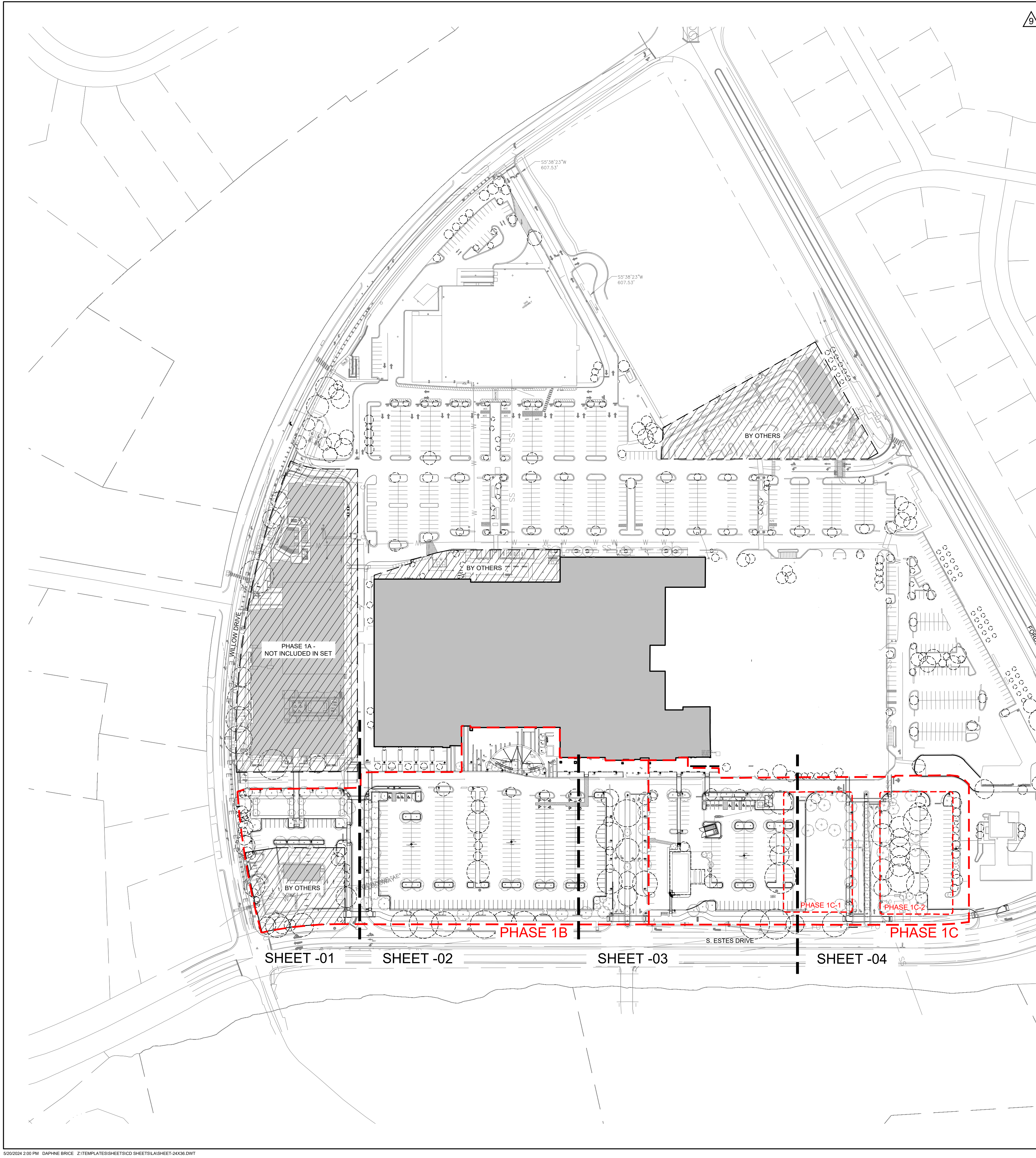
SUPPLEMENTAL PLANTING
SCHEDULE

SHEET NUMBER

L5-10

UNIVERSITY PLACE MALL									
09.24.2022 03.24.2023 08.15.2024									
LIGHTING FIXTURE SCHEDULE									
TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS			INPUT VOLT	MOUNTING	REMARKS
				NO.	TYPE	WATTS			
FXM1	LED 10' H light column containing a 4' H luminous white UV-stabilized acrylic diffuser, interior liner with printed design, aluminum shaft, 8400 lumen output, integral driver, base cover, anchor bolts and powder paint finish (color to be determined by the architect)	Barbican	BAR-82-11-RB-UP-EXTBOL-6D-120H-CUSTPRNT-HTO48-RAL-8400LM-3000K-90CRI		LED 3000°K	110	277V	Surface	1.Provide flush reinforced concrete base.
FXM1A	Similar to FXM1 except with a larger base. The fixture shall replace an existing light pole. The intent is to reuse the existing concrete base, anchor bolts and pwer feed conduit stubup. Provide base plate and cover that coordinates with the existing anchor bolt pattern, bolt size and height.	Barbican	BAR-82-11-RB-UP-EXTBOL-6D-120H-CUSTPRNT-HTO48-RAL-8400LM-3000K-90CRI / MOD BASE		LED 3000°K	110	277V	Surface	1.The contractor shall provide the fixture manufacturer with the existing concrete base size, achor bolt size, height and pattern.
FXM2	LED 3-6" H light bollard containing a 1' H luminous white UV-stabilized acrylic diffuser,interior liner with printed design, aluminum shaft, 2100 lumen output, integral driver, base cover, anchor bolts and powder paint finish (color to be determined by the architect)	Barbican	BAR-82-11-RB-UP-EXTBOL-6D-42H-CUSTPRNT-HTO12-RAL-2100LM-3000K-90CRI		LED 3000°K	40	277V	Surface	1.Provide flush reinforced concrete base.
FXM3	LED 16' H light pole containing a single cut-off luminaire mounted on a 4" square straight steel pole. The luminaire shall contain an aluminum housing, 8900 lumen output and Type 3 distribution. The pole shall contain a top cap flush handle, steel baseplate, galvanized steel anchor bolts and base cover. The light pole shall have a black polyester powder paint finish.	Lithonia	RSX1 LED-P2-30K-R3-MVOLT-SPA-DLXD / SSS10-4C-PT-DM19AS-DLXD		LED 3000°K	72	277V	Surface	1.Provide flush reinforced concrete base.
FXM3A	Similar to FXM3 except with type R2 distribution.	Lithonia	RSX1 LED-P2-30K-R2-MVOLT-SPA-DLXD / SSS10-4C-PT-DM19AS-DLXD		LED 3000°K	72	277V	Surface	1.Provide flush reinforced concrete base.
FXM3B	Similar to FXM3 except with type R4 distribution.	Lithonia	RSX1 LED-P2-30K-R4-MVOLT-SPA-DLXD / SSS10-4C-PT-DM19AS-DLXD		LED 3000°K	72	277V	Surface	1.Provide flush reinforced concrete base.
FXM4	LED illuminated 10' high pole containing a 4" dia. straight steel shaft, top cap, eye bolts to mount FXM5 light strings, flush handle, steel base plate, base cover, galvanized anchor bolts and powder paint finish (color to be selected by the architect).	Lithonia	RSS-10'-4B-TC-EYE BOLTS-FINISH		LED 3000°K			Surface	1.Provide flush reinforced concrete base.
FXM5	LED light string system containing black medium base sockets 1'-6" apart on blackinsulated power cable. The cable shallmount to a stainless steel messenger cable with cable ties (one on each side of the sockets). The feed end of the string shall contain a 20' long cable lead that installs inside the support pole and connects to the power feed at the handle.	Celestial Lighting	HYA-STL-FL-18		LED 2700°K Frosted	2W/	120V	Catenary	1. Mount to FX4 poles with stainless steel messenger cables to support light string system. 2. Mount cables to poles with turnbuckle fittings 3' apart (one above the other). Provide weatherproof bushings next to the turnbuckles for the cable feeds. Extend cable inside of pole to flush hand hole near the base of the pole for connection to the underground stub up inside the pole.
FXM6	LED cut-off luminaire mounted on an existing 135' high pole. The luminaire shall contain an aluminum housing, 45,600 lumen output, Type 3 medium distribution and powderpaint finish to match the pole.	Lithonia	DSX2LED-P8-30K-T3M-VOLTAGE-RPUMBA-FINISH		LED 3000°K	448	277V	Surface	1. Contractor to remove and replace existing fixtures with new fixtures. 2.Contractor to coordinate mounting and required brackets with existing tapered high-mast pole.
FXM6A	Similar to FXM6 except with Type 4 medium distribution.	Lithonia	DSX2LED-P8-30K-T4M-VOLTAGE-RPUMBA-FINISH		LED 3000°K	448	277V	Surface	
FXM6B	Similar to FXM6 except with 17,600 lumen output, Type 2 medium distribution and house-side shield.	Lithonia	DSX2LED-P1-30K-T2M-VOLTAGE-RPUMBA-HS-FINISH		LED 3000°K	140	277V	Surface	
FXM7	LED tree upright containing a 3" dia. x 6' L aluminum housing, 500 lumen output, 40° beam angle, power stake and black powder paint finish.	WAC Lighting	S012-30-BK-M6000-STAKE		LED 3000°K	15	120V	Surface	1.Fixture contains field adjustable intensity and beam angle settings. Contractor to adjust to match specified settings. 2.Aim fixtures to illuminate tree.

- NOTES:
- REFER TO LIGHTING CUT SHEETS FOR MORE INFORMATION ON FIXTURES.
 - HOLD ALLOWANCE FOR ADEQUATE NUMBER OF GFCIS BASED ON LIGHTING CONSULTANT RECOMMENDATION.



KEY MAP

SEAL

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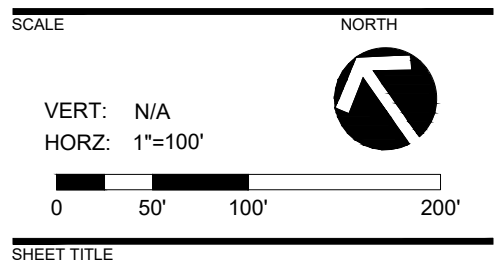
RAM REALTY
201 S ESTES DR
CHAPEL HILL, NC 27514

LANDDESIGN PROJ.# 1019418

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9	ZCP REVISION	05.20.2024

DESIGNED BY: LD
DRAWN BY: ZK
CHECKED BY: AM



OVERALL LIGHTING PLAN

SHEET NUMBER

L6-00

KEY MAP

SEAL

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DRAWN BY: ZK
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SCALE

NORTH

VERT: N/A
HORZ: 1"=20'

SHEET TITLE

**LIGHTING PLAN
ENLARGEMENT 1**

SHEET NUMBER

L6-01

KEY MAP

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DESIGNED BY: LD
DRAWN BY: ZK
CHECKED BY: AM

SCALE NORTH
VERT: N/A
HORZ: 1"=20'
0 10' 20' 40'

SHEET TITLE
**LIGHTING PLAN
ENLARGEMENT 2**

SHEET NUMBER
L6-02

MALL ENTRANCE

MULTI-USE PATH

S. ESTES DRIVE

KEY MAP

SEAL

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SCALE

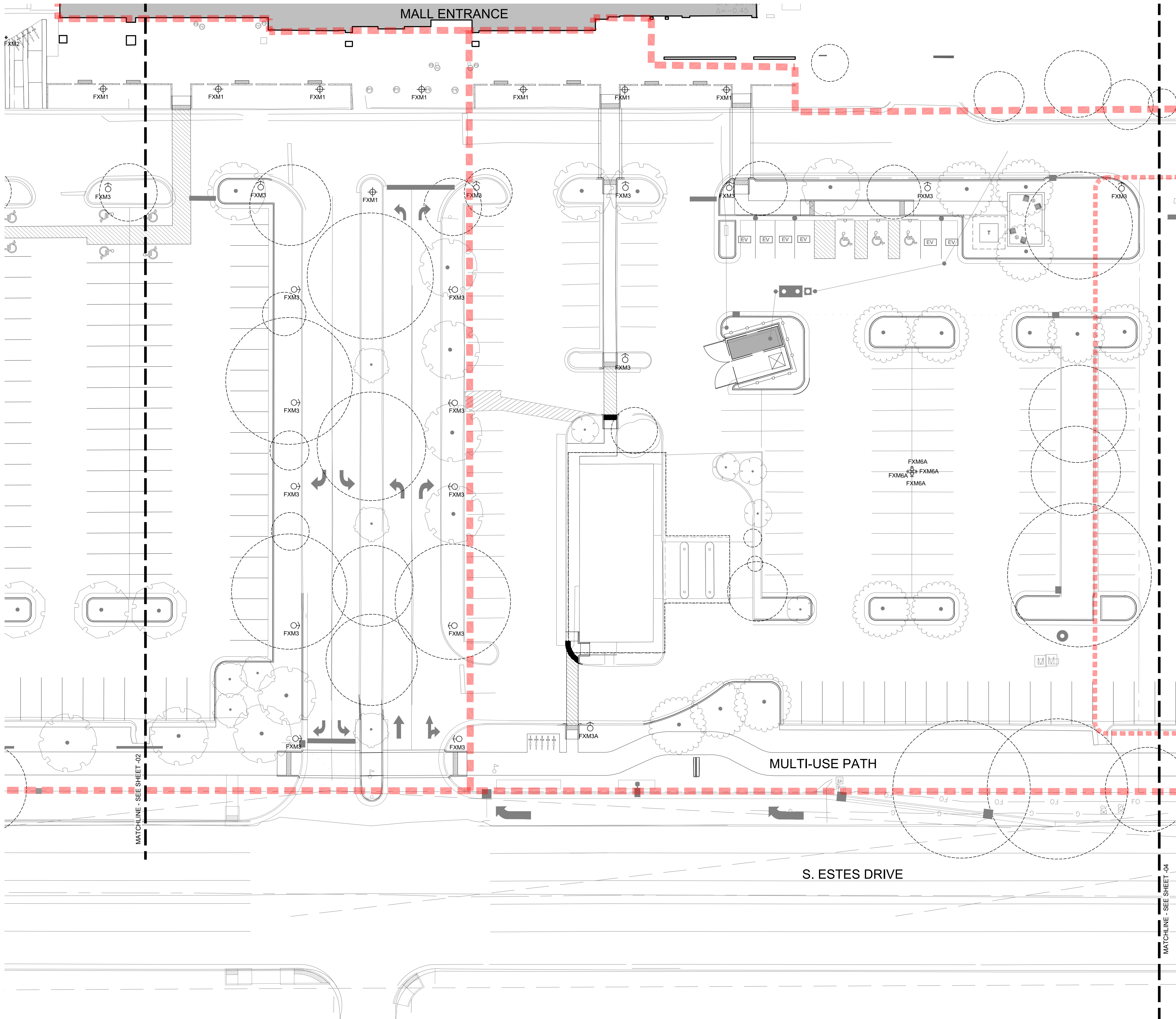
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HORZ: 1"=20'

SHEET TITLE

**LIGHTING PLAN
ENLARGEMENT 3**

SHEET NUMBER

L6-03



KEY MAP

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SCALE

NORTH

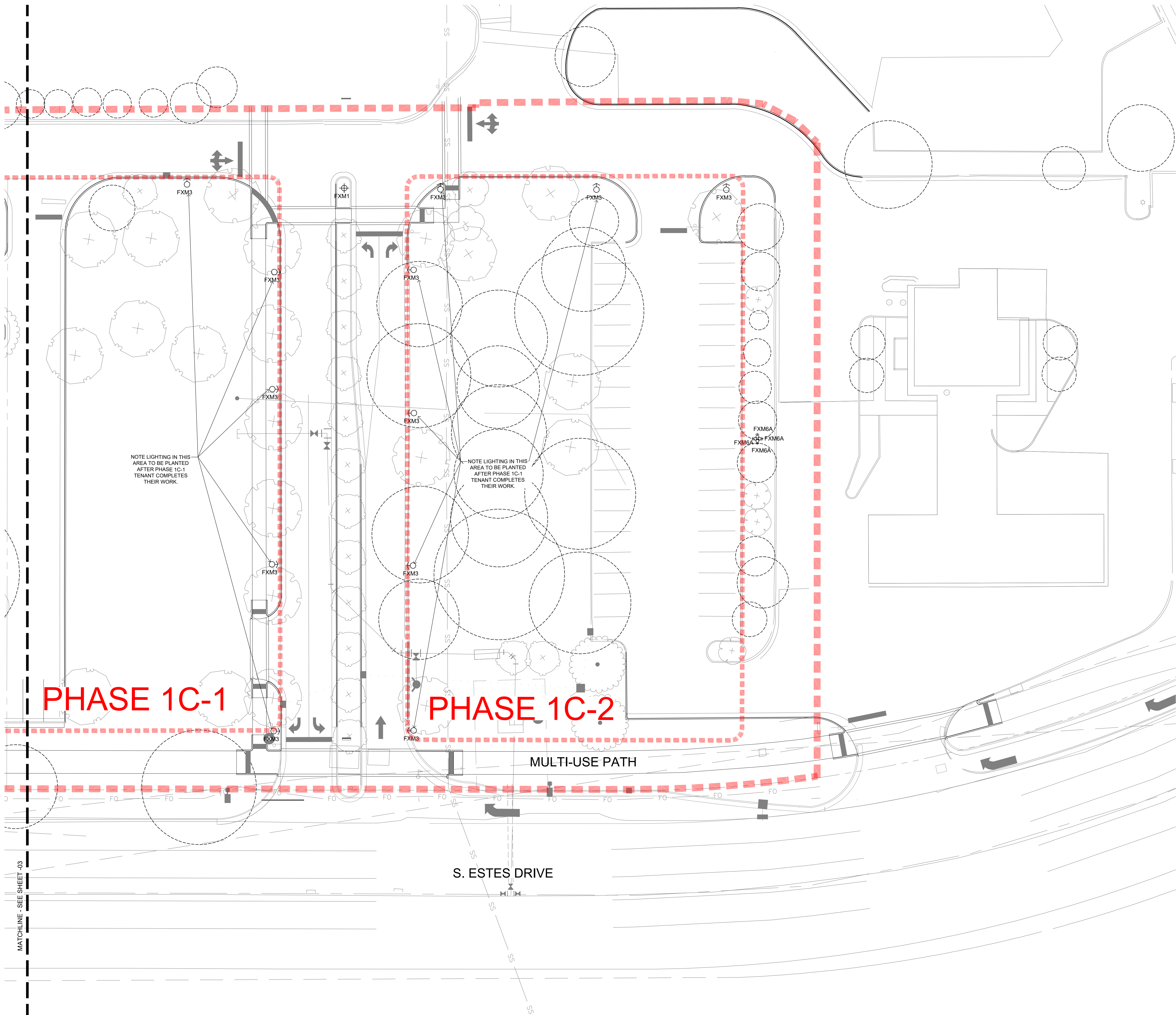
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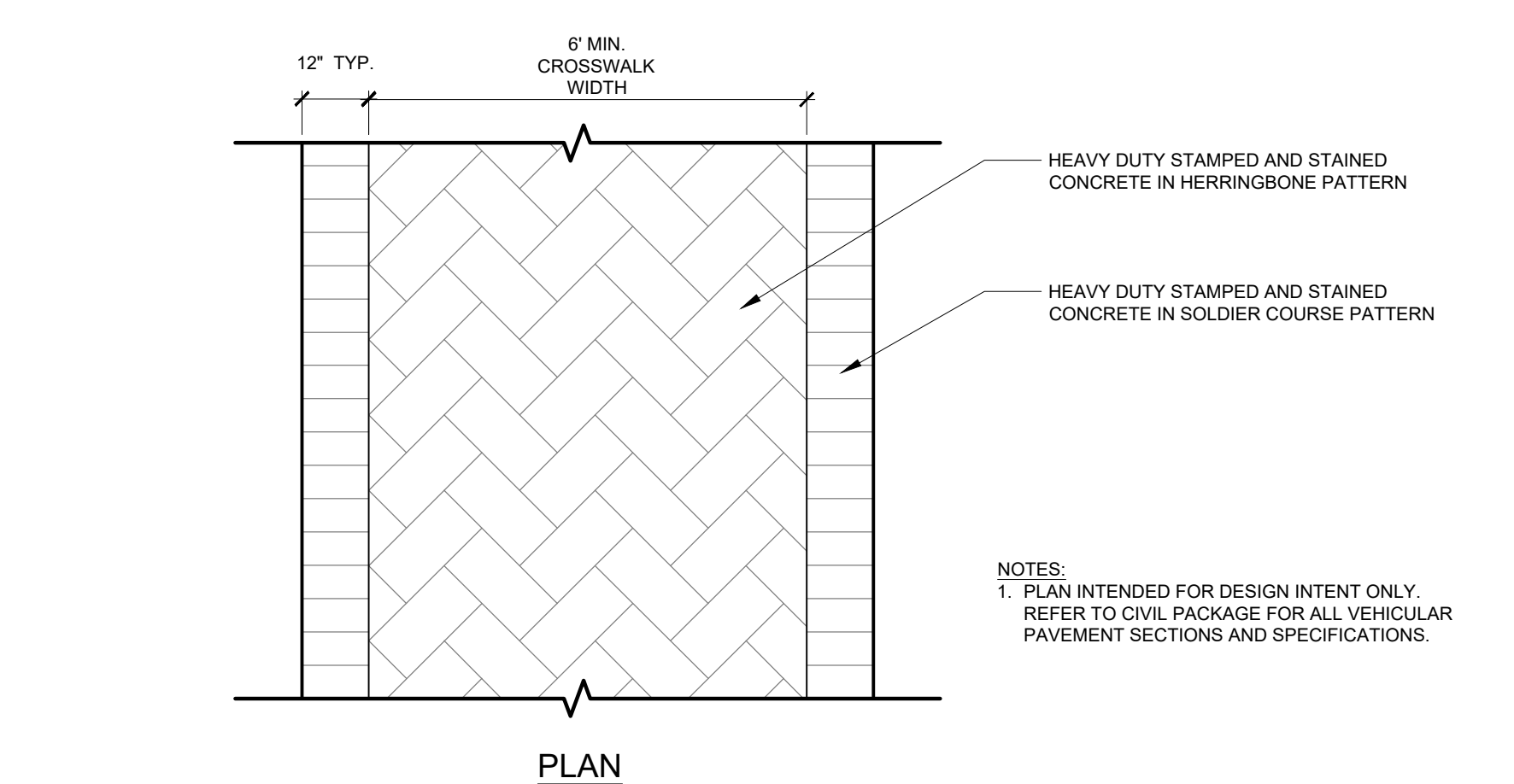
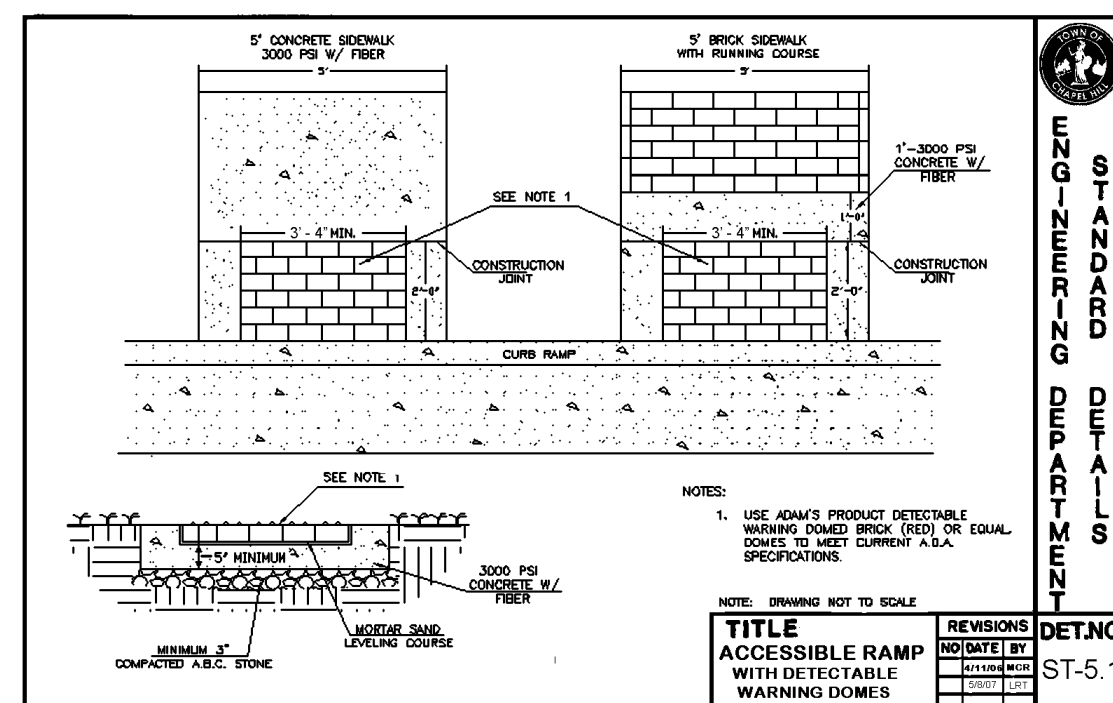
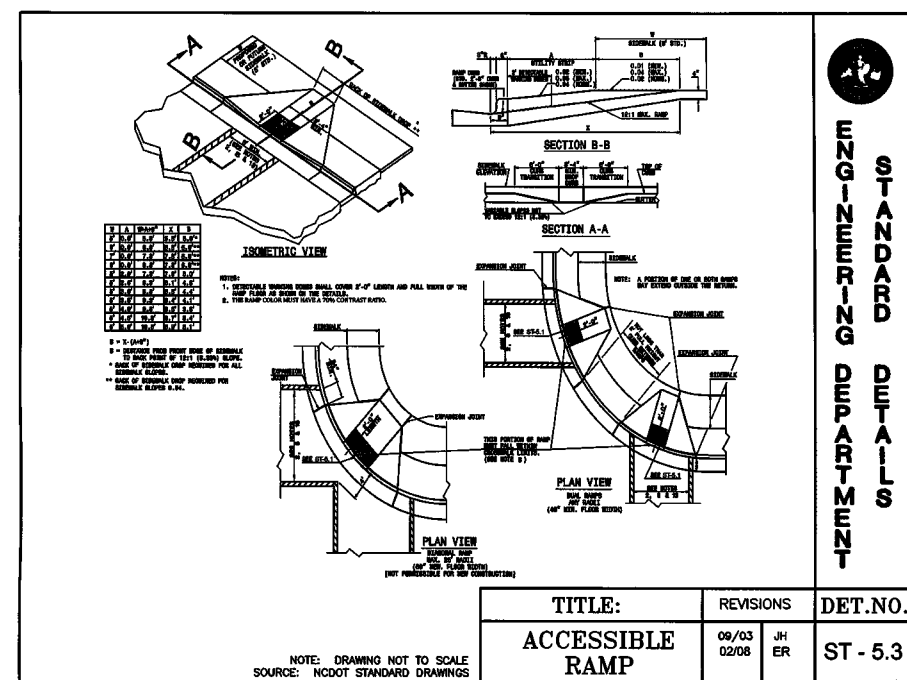
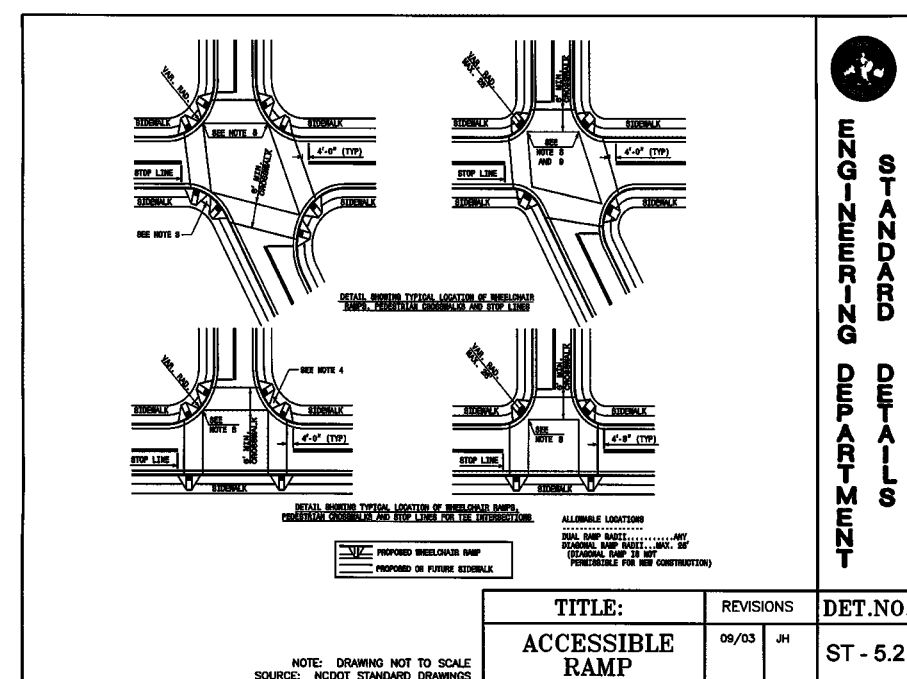
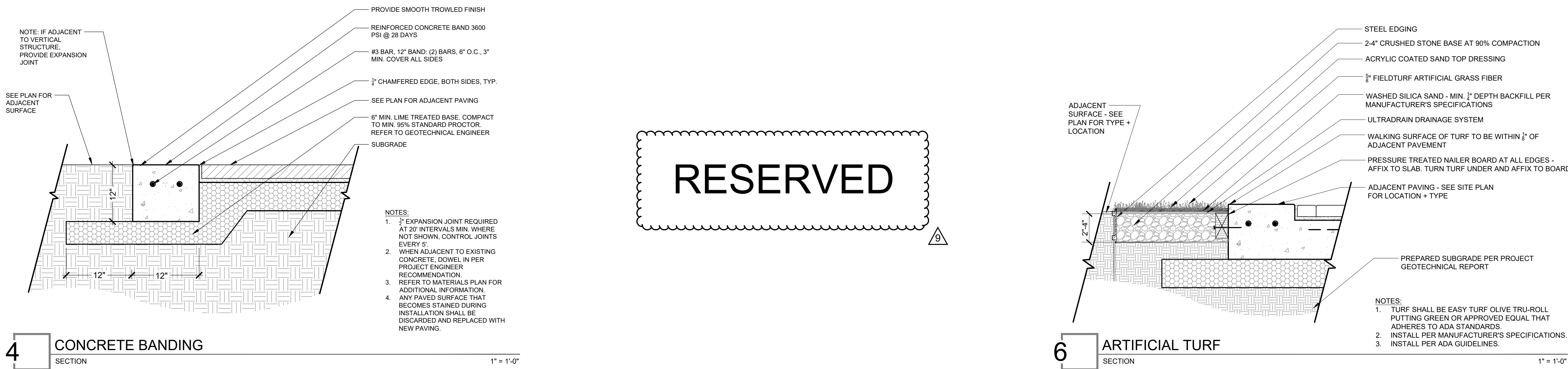
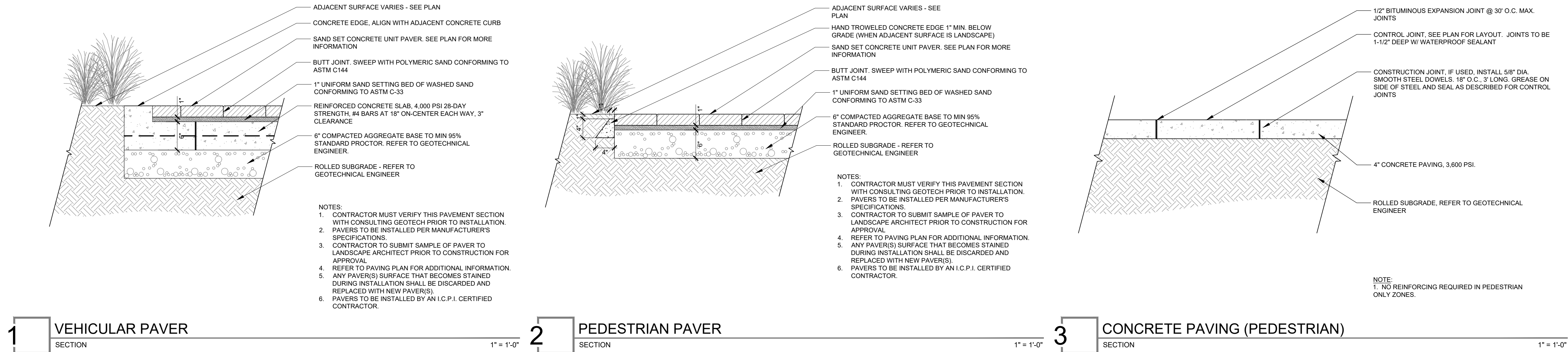
SHEET TITLE

**LIGHTING PLAN
ENLARGEMENT 4**

SHEET NUMBER

L6-04





KEY MAP

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SCALE NORTH

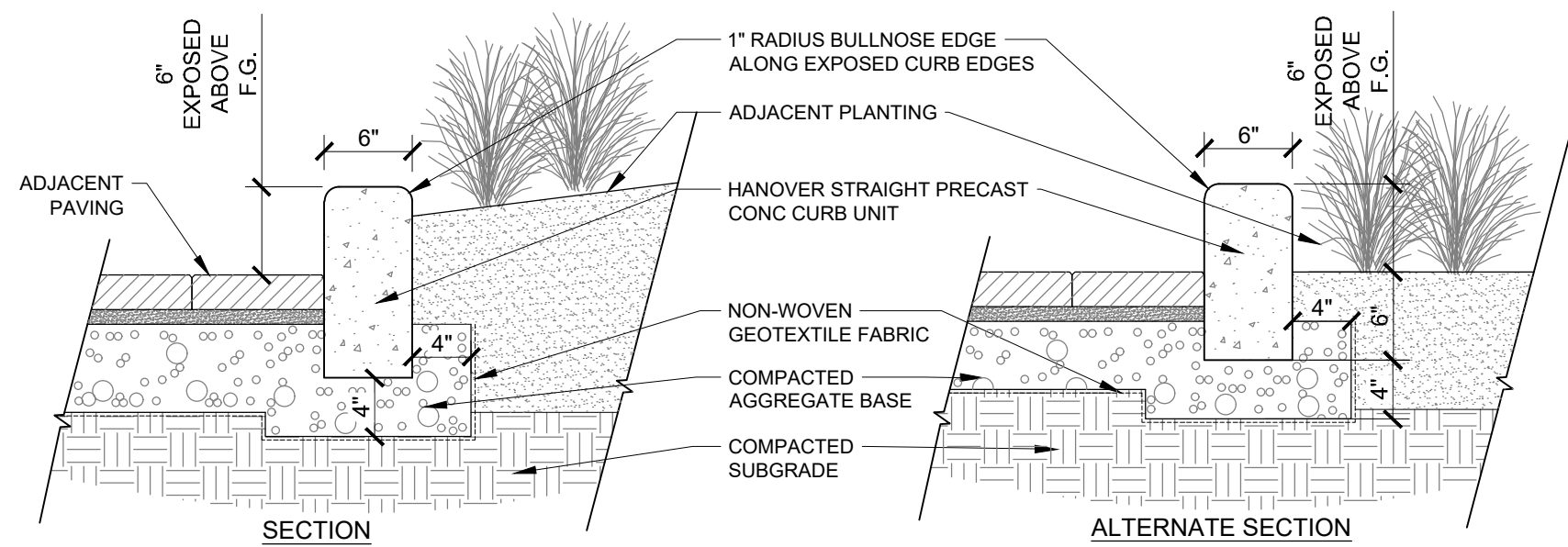
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SHEET TITLE

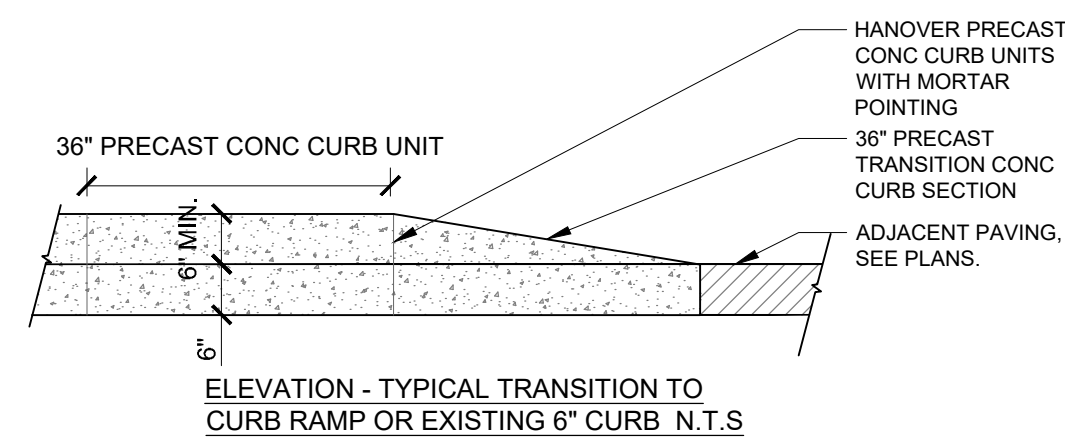
SITE DETAILS

SHEET NUMBER

L7-00



PLAN - TYPICAL 90 DEGREE
CORNER (WHEN NO RADI
PIECE) N.T.S.



- NOTES:
1. REFER TO SHOP DRAWINGS BY PRECAST VENDOR.
 2. SEE PLANS FOR CURB LAYOUT.
 3. INSTALL ALL MATERIALS ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
 4. ANY PRECAST CONC CURB THAT IS DAMAGED DURING INSTALLATION SHALL BE DISCARDED AND REPLACED WITH NEW PRECAST CONC CURB.

1 PLANTER CURB

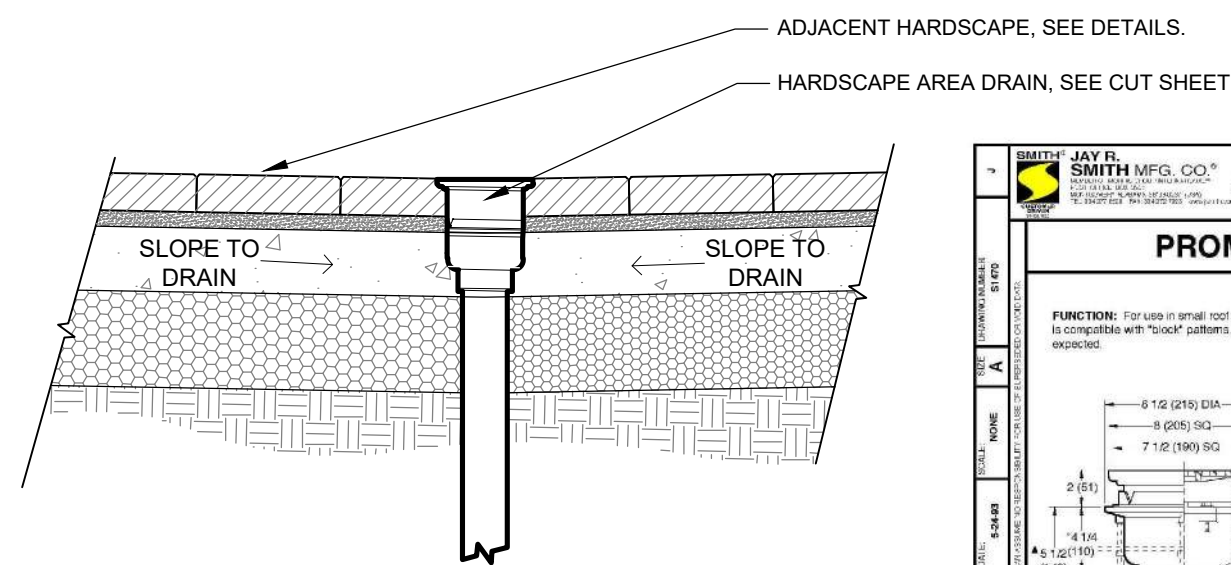
SECTION | PLAN | ELEVATION

1" = 1'-0"

2 STEEL EDGE RESTRAINT

SECTION

1" = 1'-0"

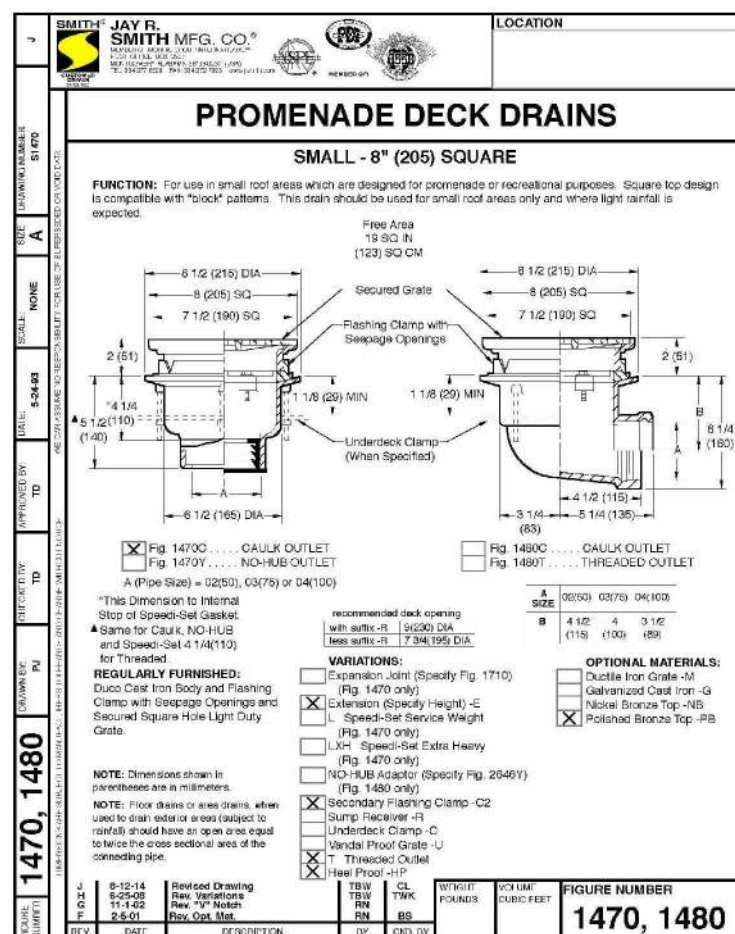


- NOTES:
1. MUST SUBMIT PRODUCT DATA FOR LANDSCAPE APPROVAL
 2. INCLUDE 4" SS PERFORATED EXTENSION, MODEL #E04P

4 HARDSCAPE DRAINAGE

SECTION

1" = 1'-0"

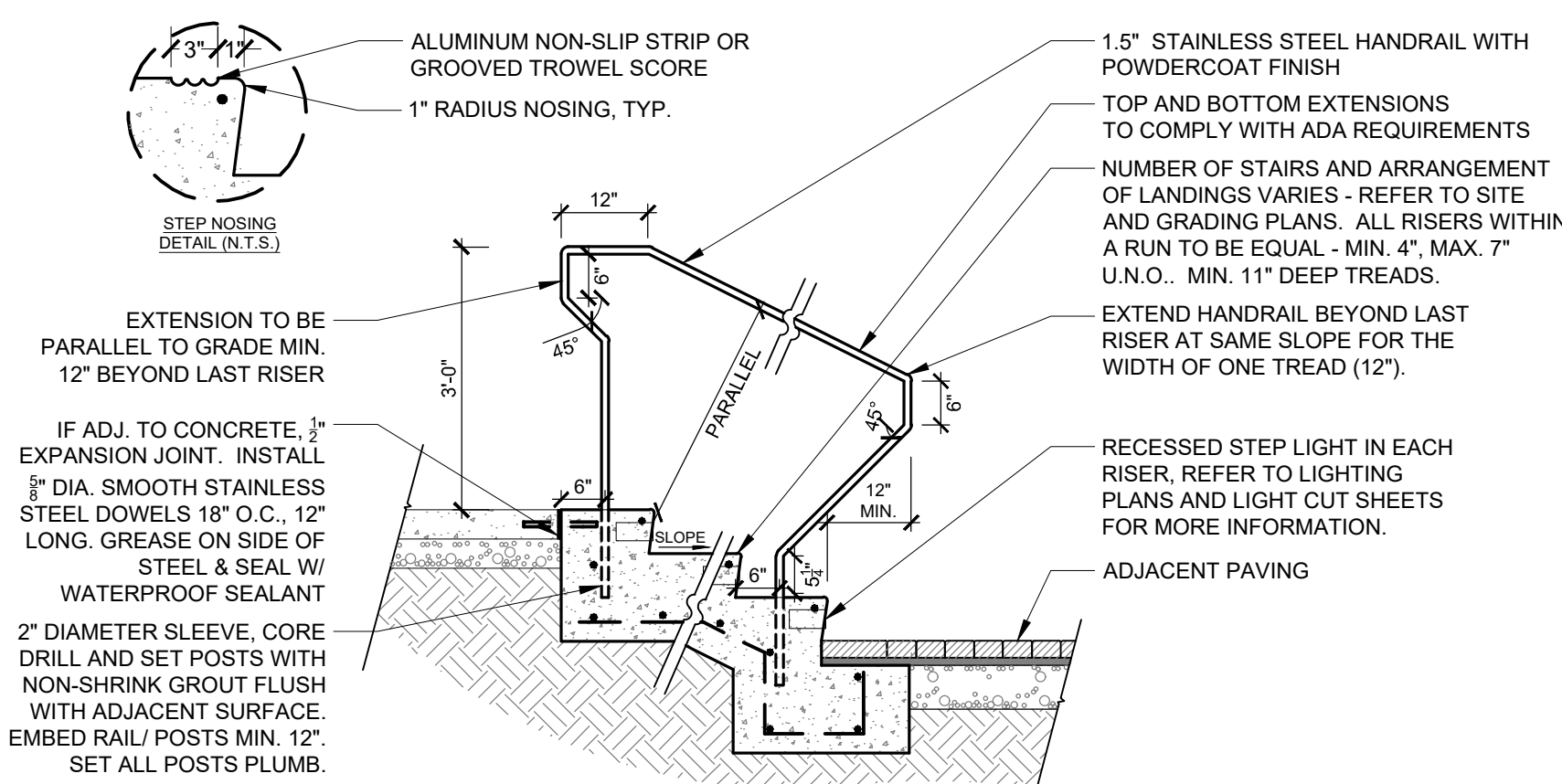


RESERVED

RESERVED

RESERVED

RESERVED



- NOTES:
1. CONTRACTOR MUST VERIFY THIS PAVEMENT SECTION WITH CONSULTING GEOTECH PRIOR TO INSTALLATION. CONTRACTOR SHALL PROVIDE ENGINEERED SHOP DRAWINGS OF STAIR REINFORCEMENTS AND HANDRAILS FOR LANDSCAPE ARCHITECT'S APPROVAL.
 2. RAILING TO MAINTAIN 1 3/4" CLEAR FROM WALL AT ALL GRIPPING SURFACES.
 3. REFER TO SITE PLAN FOR ADDITIONAL INFORMATION.
 4. GROUT TO PITCH AWAY FROM RAILING TO ALLOW DRAINAGE AWAY FROM POST, TYP.
 5. WELDS SHALL BE CONTINUOUS AND GROUND SMOOTH.

8 CIP CONCRETE STAIR + HANDRAIL

SECTION

1/2" = 1'-0"

KEY MAP

REAL

PRELIMINARY -FOR REVIEW ONLY-

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REVIEW ONLY AND NOT INTENDED FOR
CONSTRUCTION, BIDDING, OR PERMIT
PURPOSE. THEY ARE PREPARED BY, OR
UNDER THE SUPERVISION OF:

ENGINEER REG. # DATE

PROJECT

UNIVERSITY PLACE PHASE 1B/1C

RAM REALTY

201 S ESTES DR

CHAPEL HILL, NC 27514

LANDDESIGN PROJ.# 1019418

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	ZCP	09.20.2021
2	ZCP	03.30.2022
3	ZCP	05.19.2022
4	OWNER COORDINATION	08.01.2022
5	IFC	09.06.2022
6	OWNER VE DIRECTIVE	03.02.2023
7	ZCP REVISION	03.20.2023
8	ASI #1	09.15.2023
9	ZCP REVISION	05.20.2024

DESIGNED BY: LD
DRAWN BY: ZK
CHECKED BY: AM

SCALE NORTH

VERT: N/A
HORZ: AS NOTED

SHEET TITLE

SITE DETAILS

SHEET NUMBER

L7-01

RESERVED

RESERVED

RESERVED

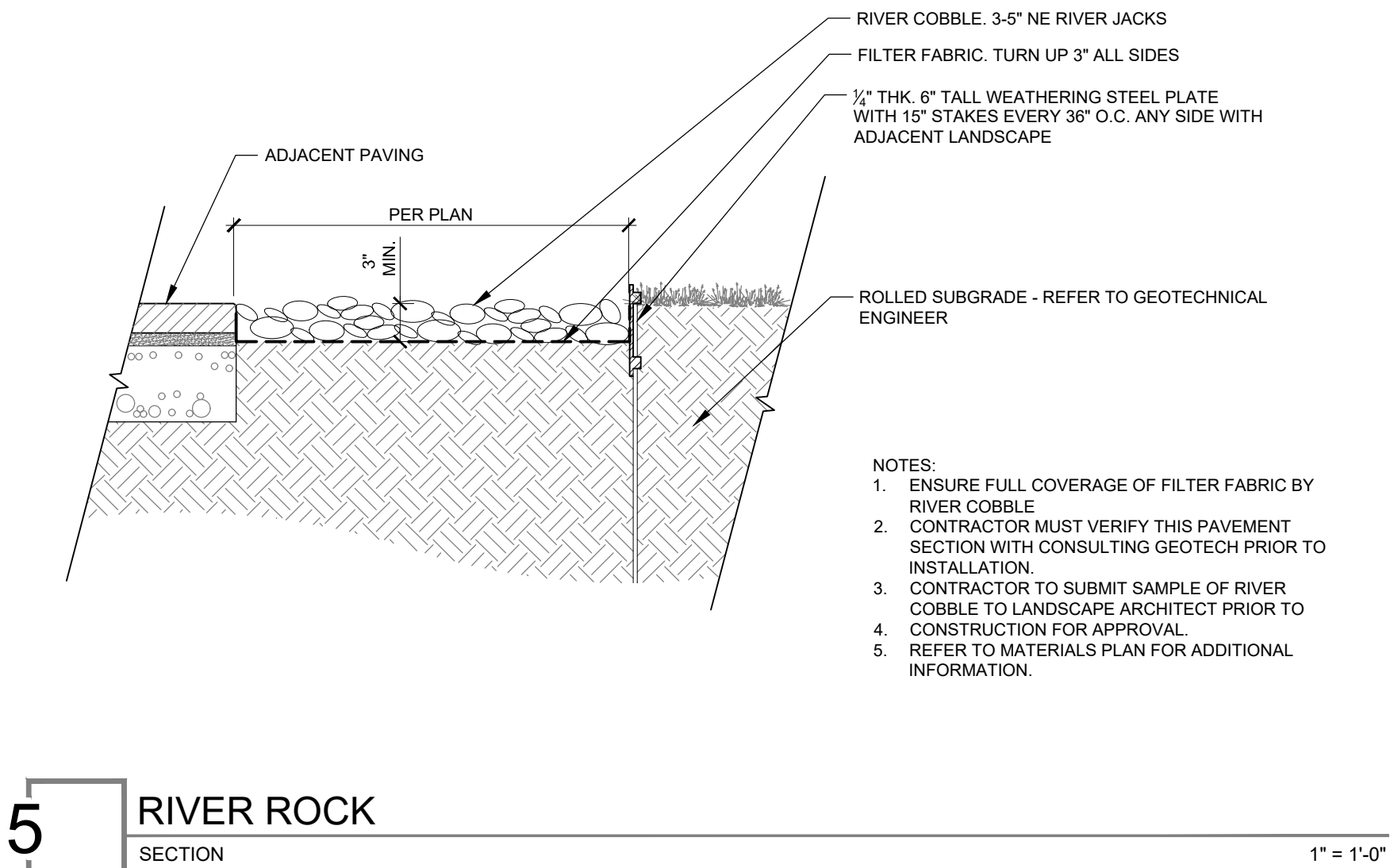
RESERVED

RESERVED

RESERVED

RESERVED

RESERVED



KEY MAP

SEAL

PRELIMINARY
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ENGINEER REG. # DATE 12/15/22

PROJECT

**UNIVERSITY
PLACE PHASE
1B/1C**
RAM REALTY
201 S ESTES DR
CHAPEL HILL, NC 27514

LANDDESIGN PROJ.# 1019418

REVISION / ISSUANCE		
NO.	DESCRIPTION	DATE
1	ZCP	09.20.2021
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7	ZCP REVISION	03.20.2023
8	ASI #1	09.15.2023
9	ZCP REVISION	05.20.2024

DESIGNED BY: LD
DRAWN BY: ZK
CHECKED BY: AM

SCALE NORTH

VERT: N/A
HORZ: AS NOTED

SHEET TITLE

SITE DETAILS

SHEET NUMBER

L7-02

KEY MAP

SEAL

**PRELIMINARY
-FOR REVIEW ONLY-**

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REG. # 12/15/22
ENGINEER DATE

PROJECT

**UNIVERSITY
PLACE PHASE
1B/1C**

RAM REALTY
201 S ESTES DR
CHAPEL HILL, NC 27514

LANDDESIGN PROJ.# 1019418		
REVISION / ISSUANCE		
NO.	DESCRIPTION	DATE
1	ZCP	09.20.2021
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7	ZCP REVISION	03.20.2023
8	ASI #1	09.15.2023
9	ZCP REVISION	05.20.2024

DESIGNED BY: LD
DRAWN BY: ZK
CHECKED BY: AM

SCALE NORTH

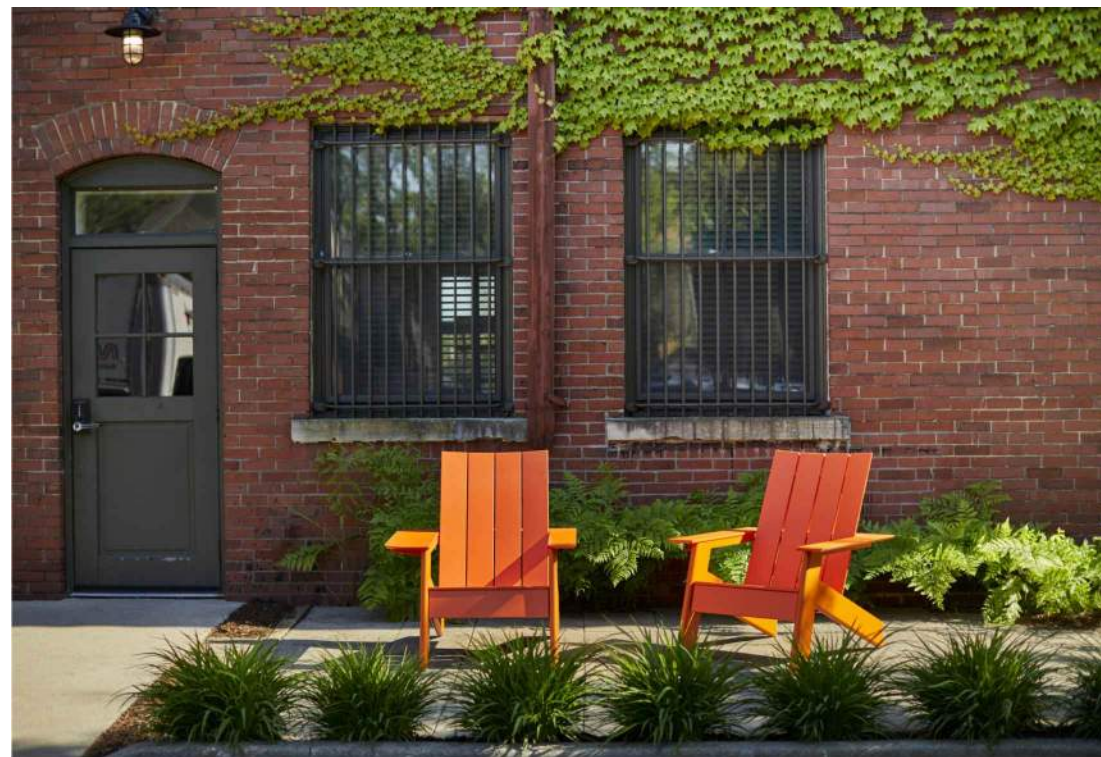
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HORZ: AS NOTED

SHEET TITLE

SITE DETAILS

SHEET NUMBER

L7-03

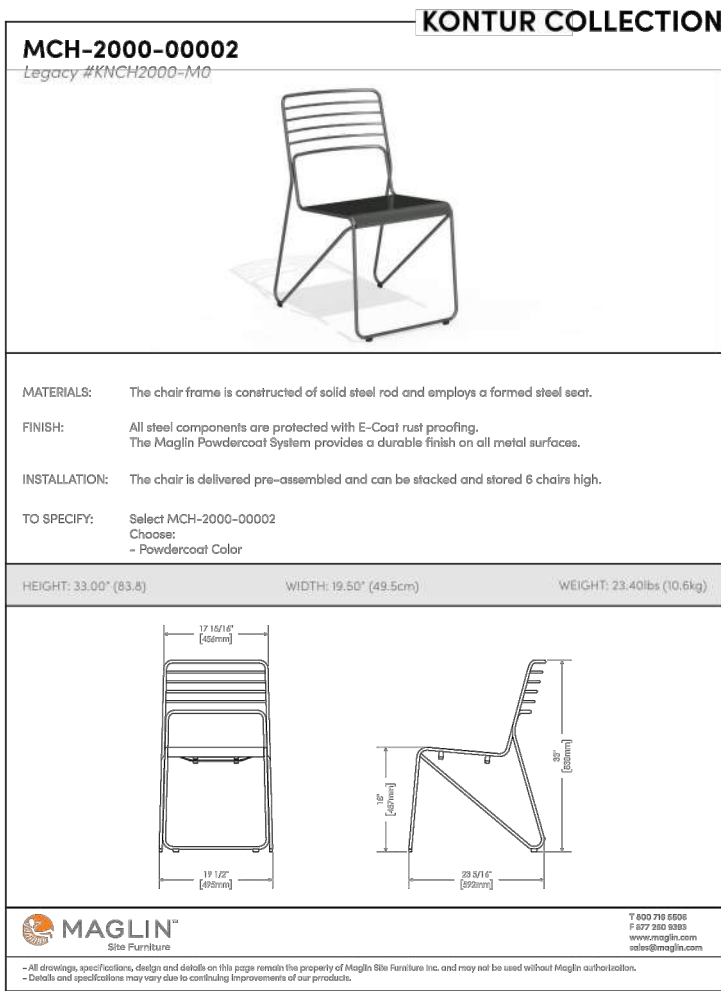


FOR DESIGN INTENT ONLY

MANUFACTURER: LOLL DESIGNS
PRODUCT NAME: ADIRONDACK CHAIR
(CURVED) TALLM AD-ASC
BACK OPTION: CURVED
COLOR: SUNSET ORANGE
CONTACT: P.877.740.3387
E.SALES@LOLLDESIGNS.COM



MANUFACTURER: LANDSCAPE FORMS
MODEL: FREE-STANDING BACKED AUSTIN
BENCH
SIZE: 24" X 72" X 18"
COLOR: IPE



MANUFACTURER: MAGLIN
PRODUCT NAME: KONTUR CHAIR, FREESTANDING
FINISH: POWDERCOATED STEEL
COLOR: ORANGE, RAL 2009

NOTE: INSTALL LANDSCAPE FORMS BENCH OR APPROVED EQUAL PER MANUFACTURER'S RECOMMENDATIONS.

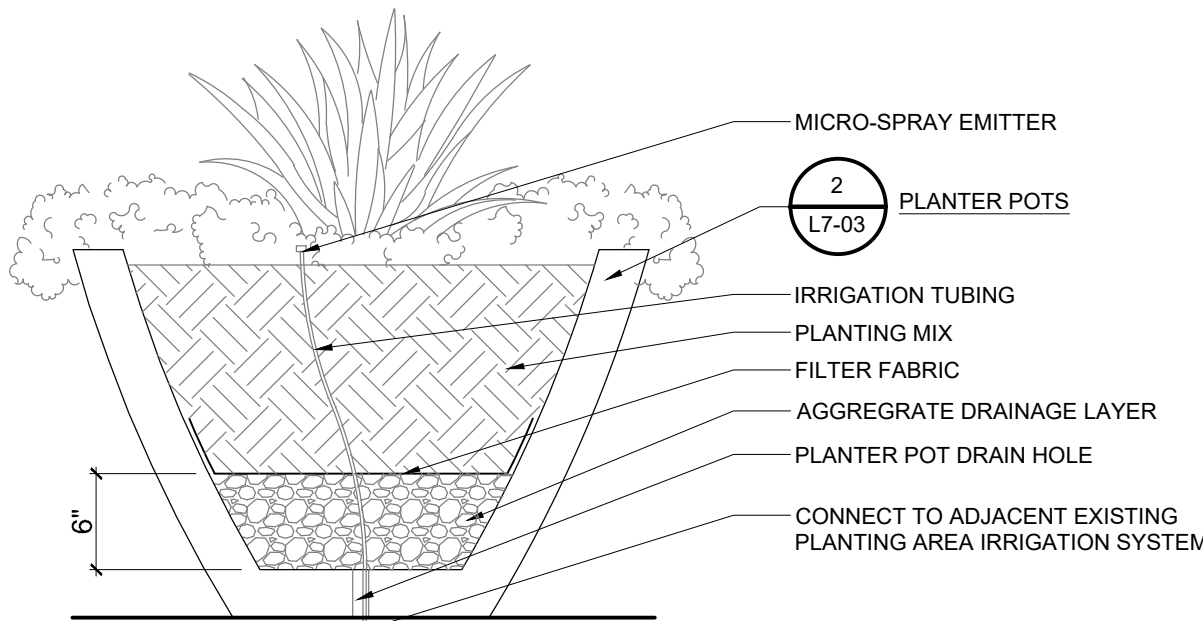
1/2" = 1'-0"

PLANTER POT 3:
MANUFACTURER: TOURNESOL
PRODUCT NAME: DELTA COLLECTION DT-3000
SIZE: 30" TOP, 20" BOTTOM, 24" HEIGHT
WEIGHT: 90 LBS
COLOR: TBD

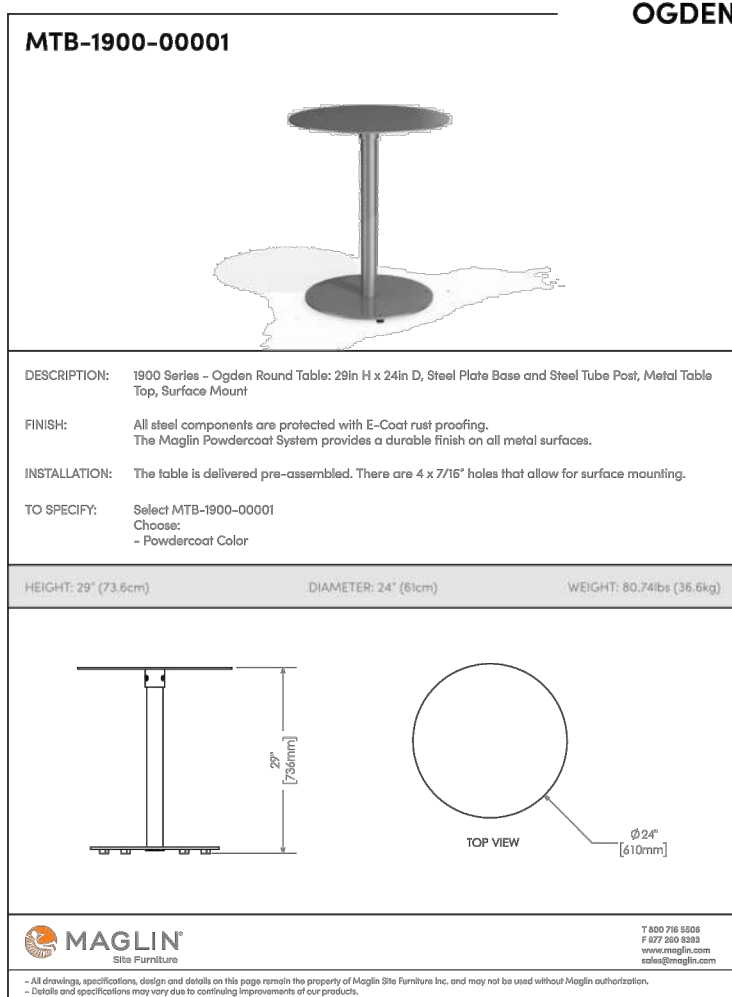
PLANTER POT 2:
MANUFACTURER: TOURNESOL
PRODUCT NAME: DELTA COLLECTION DT-3600
SIZE: 36" TOP, 22" BOTTOM, 30" HEIGHT
WEIGHT: 130 LBS
COLOR: TBD

PLANTER POT 1:
MANUFACTURER: TOURNESOL
PRODUCT NAME: DELTA COLLECTION DT-4200
SIZE: 42" TOP, 28" BOTTOM, 36" HEIGHT
WEIGHT: 190 LBS
COLOR: TBD

NOTE: INSTALL TOURNESOL PLANTERS OR APPROVED EQUAL PER MANUFACTURER'S RECOMMENDATIONS.



- NOTE:
- DETAIL IS SCHEMATIC IN NATURE; REFER TO PROJECT DRAWINGS FOR EXACT PLANTER MODEL, PLANTING PLAN, + OTHER INFORMATION.
 - CONTRACTOR TO PROVIDE ALL NECESSARY MATERIALS FOR COMPLETE + OPERATIONAL INSTALLATION OF THE PLANTER, INCLUDING, SOIL, DRAINAGE LAYER, FILTER FABRIC, + OTHER NECESSARY MATERIALS.
 - CONTRACTOR IS RESPONSIBLE TO ENSURE ADEQUATE DRAINAGE IN A MANNER ACCEPTABLE TO OWNER.



MANUFACTURER: MAGLIN
PRODUCT NAME: OGDEN TABLE
SIZE: 24" ROUND
FINISH: POWDERCOATED STEEL
COLOR: ORANGE, RAL 2009



DESIGN INTENT ONLY

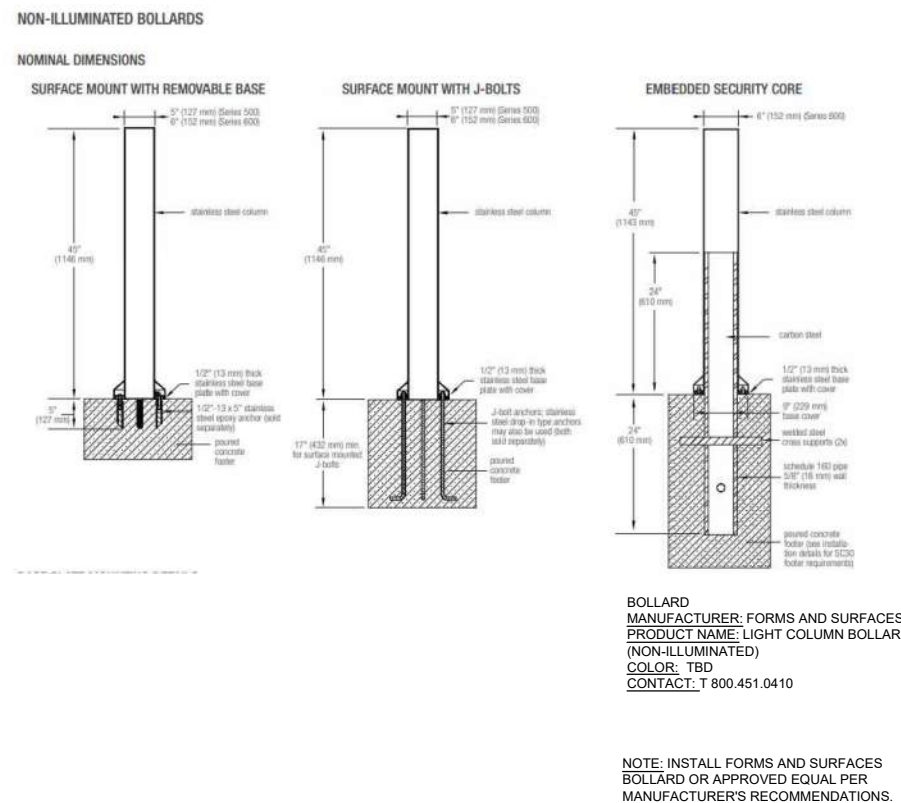


SIDE TABLE
MANUFACTURER: LOLL DESIGNS
MODEL: ADIRONDACK SIDE TABLE
COLOR: SUNSET ORANGE OR APPROVED
CONTACT: sales@lollidesigns.com

FOR DESIGN INTENT ONLY



DESIGN INTENT ONLY



NOTE: INSTALL FORMS AND SURFACES BOLLARD OR APPROVED EQUAL PER MANUFACTURER'S RECOMMENDATIONS.

ADIRONDACK CHAIR
CHARACTER IMAGERY

N.T.S.

BENCH
CUT SHEET

1/2" = 1'-0"

BISTRO CHAIR
CHARACTER IMAGERY

N.T.S.

BISTRO TABLE
CHARACTER IMAGERY

N.T.S.

PLANTER POTS
CHARACTER IMAGERY

N.T.S.

PLANTER POT - INTERNAL DETAILS
SECTION

1" = 1'-0"

RESERVED

9

SMALL SIDE TABLE
CUT SHEET

N.T.S.

SECURITY BOLLARD
CUT SHEET

N.T.S.



DESIGN INTENT ONLY

MANUFACTURER: FORMS + SURFACES
PRODUCT NAME: TONYO LITTER AND RECYCLING RECEPTACLE
NOTE: INSTALL FORMS + SURFACES TRASH RECEPTACLE OR APPROVED EQUAL PER MANUFACTURER'S RECOMMENDATIONS.



MANUFACTURER: LANDSCAPE FORMS
PRODUCT NAME: BOLA BIKE RACK
FINISH: STAINLESS STEEL SATIN
NOTE: EMBEDDED MOUNTING

1 TRASH RECEPTACLE

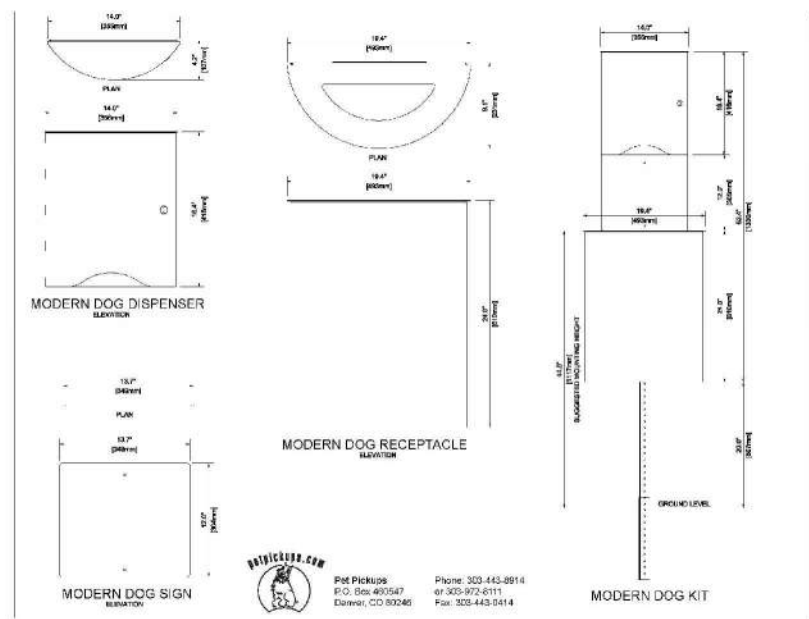
CHARACTER IMAGERY

N.T.S.

2 BIKE RACK

CHARACTER IMAGERY

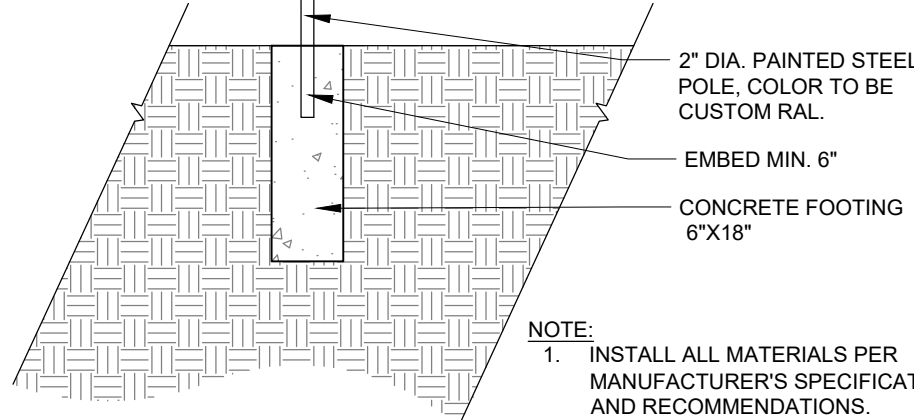
N.T.S.



MANUFACTURER: PET PICKUPS
COLOR: CUSTOM RAL PAINT
MODEL: MODERN DOG



PRODUCT PHOTO



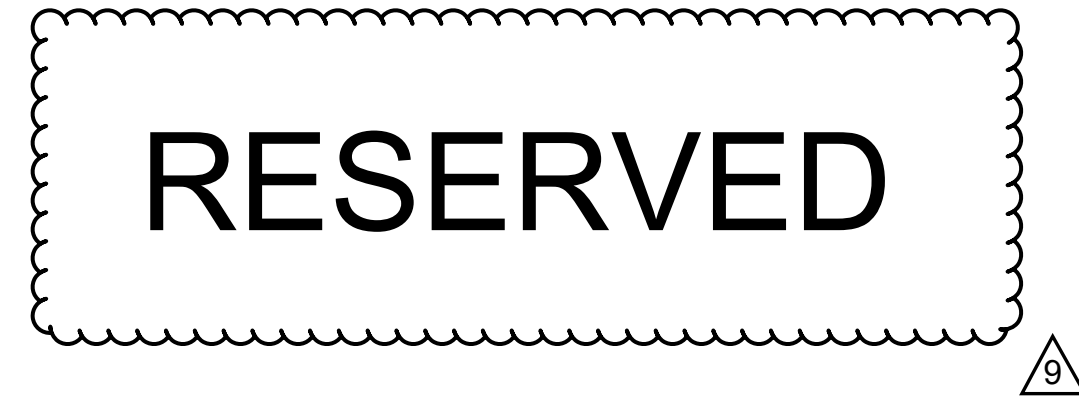
NOTE:
1. INSTALL ALL MATERIALS PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

2" DIA. PAINTED STEEL
POLE, COLOR TO BE
CUSTOM RAL
EMBED MIN. 6"
CONCRETE FOOTING
6"X18"

4 DOG WASTE STATION

CUT SHEET | SECTION

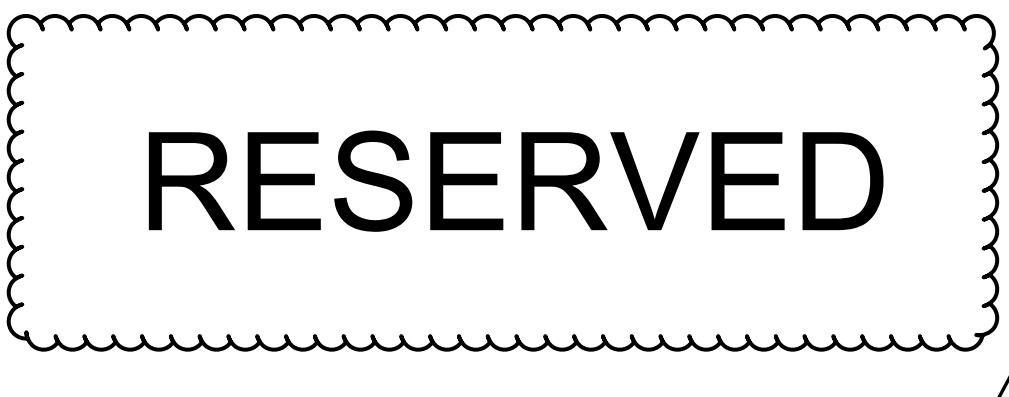
3/4" = 1'-0"



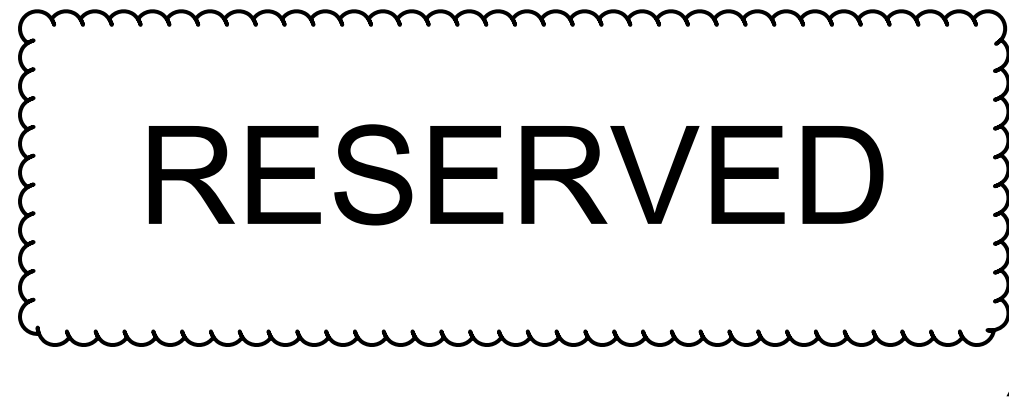
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9



9



9

KEY MAP

SEAL

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ENGINEER REG.# DATE

PROJECT

UNIVERSITY PLACE PHASE 1B/1C

RAM REALTY

201 S ESTES DR

CHAPEL HILL, NC 27514

LANDDESIGN PROJ.#

1019418

REVISION / ISSUANCE

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DESIGNED BY: LD
DRAWN BY: ZK
CHECKED BY: AM

SCALE NORTH

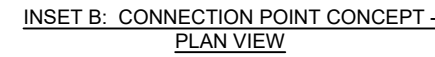
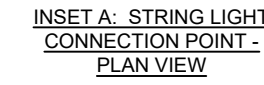
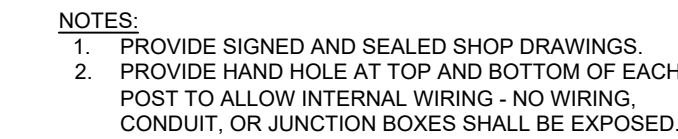
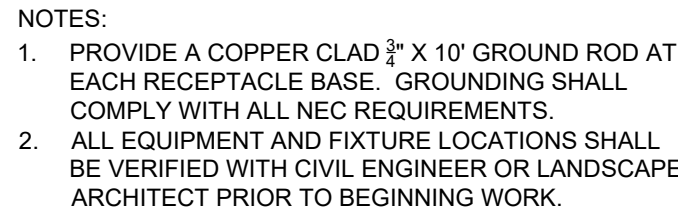
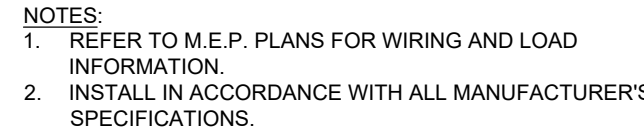
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HORZ: AS NOTED

SHEET TITLE

SITE DETAILS

SHEET NUMBER

L7-04



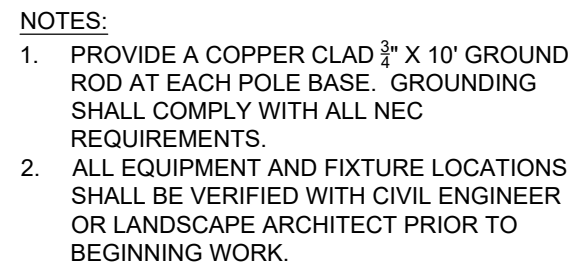
GFCI

SPECIFICATIONS

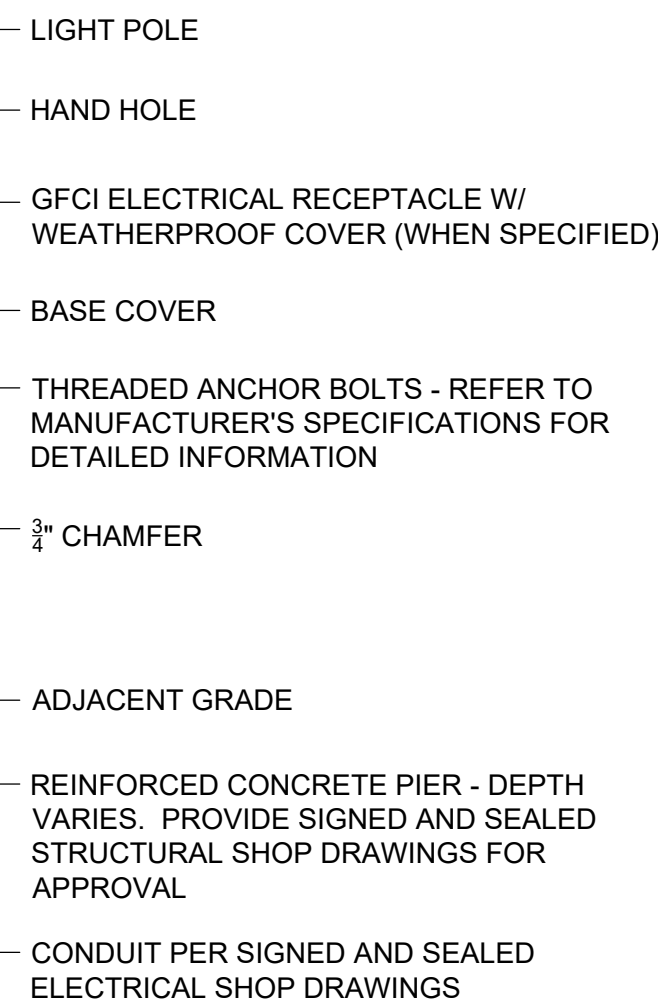


3 STRING LIGHTS CONNECTION TO STEEL POLE

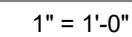
SECTION | PLANS



4 BOLLARD BASE



5 LIGHT POLE BASE SECTION



- NOTES:**
1. PROVIDE A COPPER CLAD $\frac{3}{4}$ " X 10' GROUND ROD AT EACH POLE BASE. GROUNDING SHALL COMPLY WITH ALL NEC REQUIREMENTS.
 2. ALL EQUIPMENT AND FIXTURE LOCATIONS SHALL BE VERIFIED WITH CIVIL ENGINEER OR LANDSCAPE ARCHITECT PRIOR TO BEGINNING WORK.

SEAL		
PRELIMINARY		
-FOR REVIEW ONLY-		
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#####	####	12/15/22
ENGINEER	REG. #	DATE

**UNIVERSITY
PLACE PHASE
1B/1C**

RAM REALTY

201 S ESTES DR

CHAPEL HILL, NC 27514

LANDSCAPE DESIGN PROJ # 1019418		
REVISION / ISSUANCE		
NO.	DESCRIPTION	DATE
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DESIGNED BY: LD
DRAWN BY: ZK
CHECKED BY: AM

SCALE NORTH

VERT: N/A
HORZ: AS NOTED

SHEET TITLE

SITE LIGHTING DETAILS

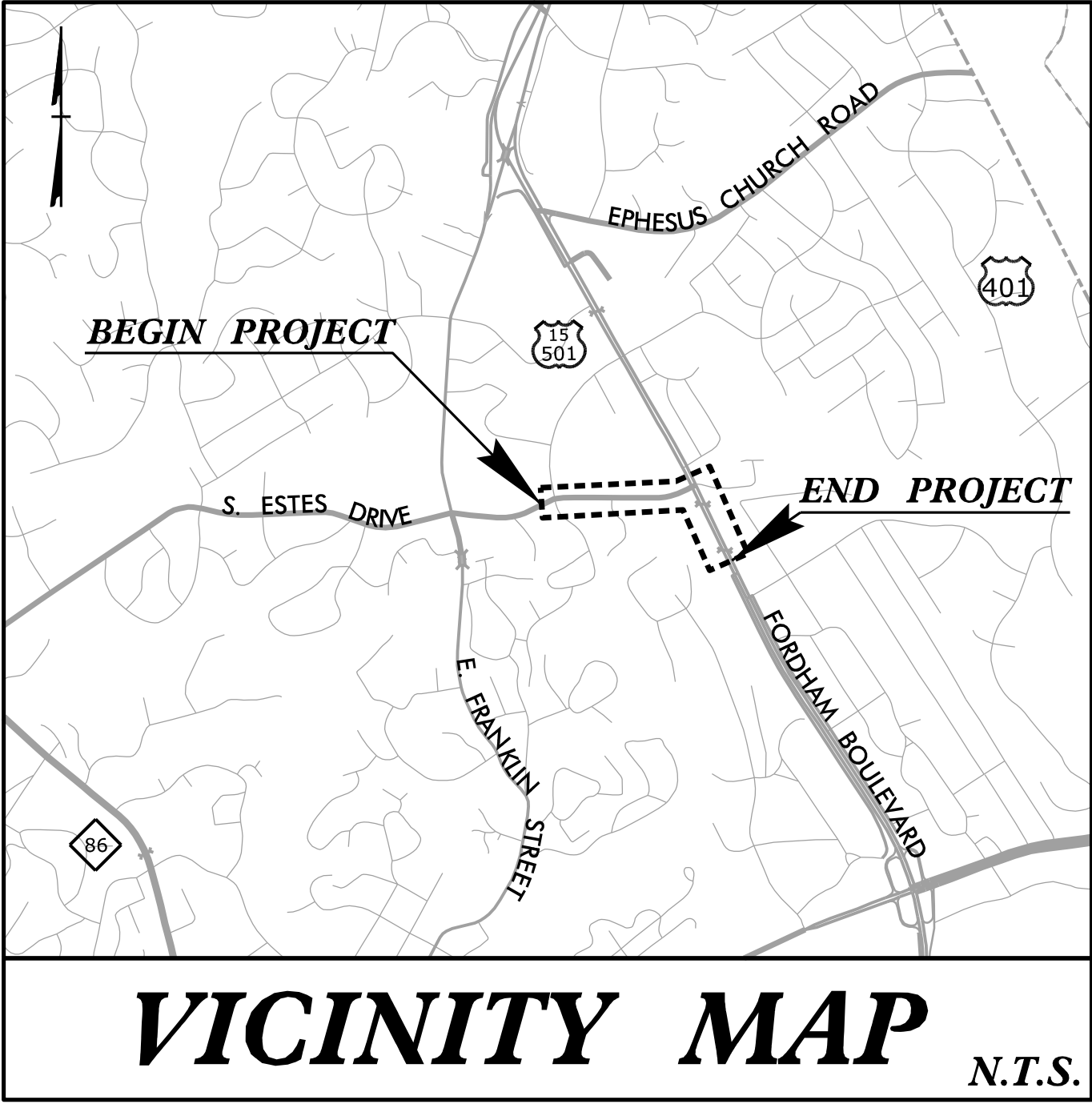
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L7-05

09/08/2022

10/6/2022
User: SMCCarthy
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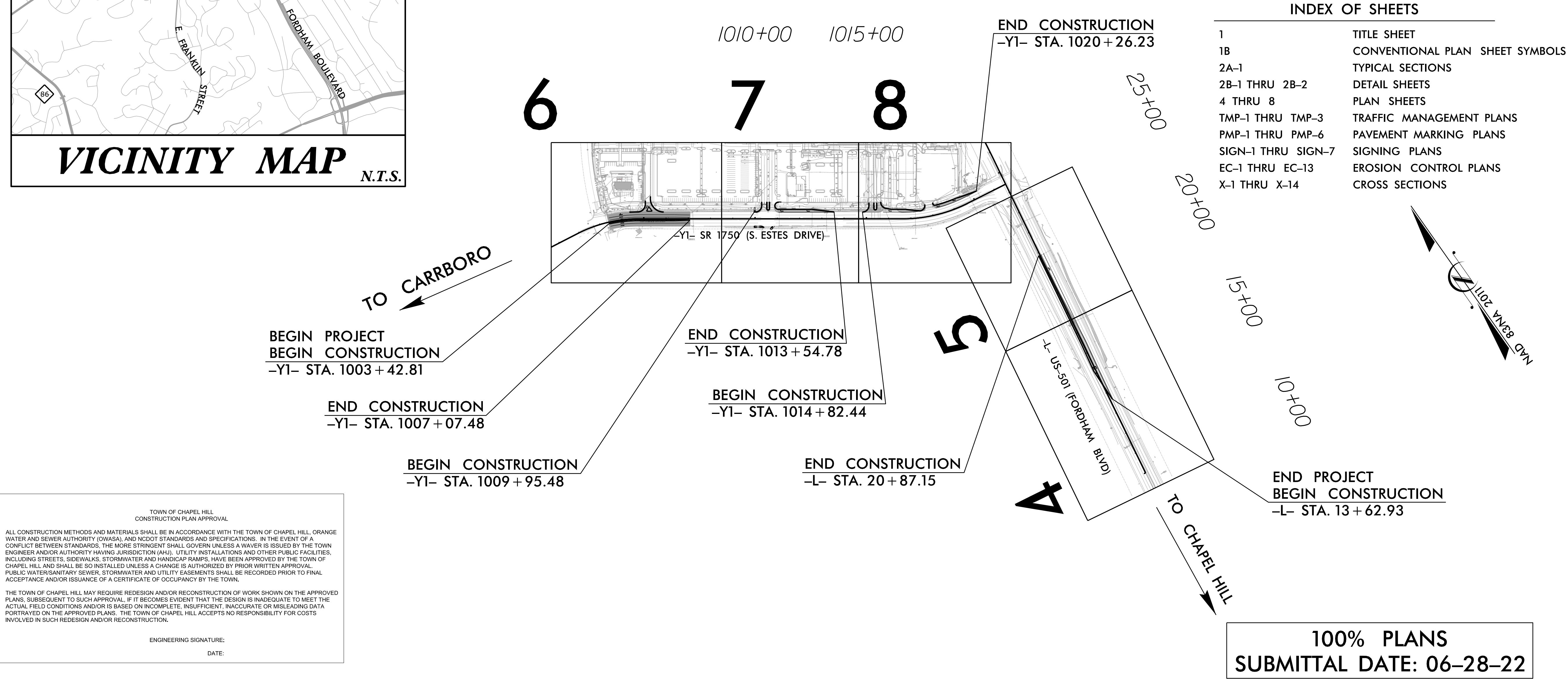
PROJECT: UNIVERSITY PLACE OFFSITE ROADWAY



ORANGE COUNTY

LOCATION: US 15-501 (FORDHAM BOULEVARD) AT SR 1750 (S. ESTES DRIVE)

TYPE OF WORK: GRADING, PAVING, DRAINAGE, & PAVEMENT MARKINGS



TOWN OF CHAPEL HILL
CONSTRUCTION PLAN APPROVAL

ALL CONSTRUCTION METHODS AND MATERIALS SHALL BE IN ACCORDANCE WITH THE TOWN OF CHAPEL HILL, ORANGE WATER AND SEWER AUTHORITY (OWASA), AND NCDOT STANDARDS AND SPECIFICATIONS. IN THE EVENT OF A CONFLICT BETWEEN STANDARDS, THE MORE STRINGENT SHALL GOVERN UNLESS A WAIVER IS ISSUED BY THE TOWN ENGINEER AND/OR AUTHORITY HAVING JURISDICTION (AHJ). UTILITY INSTALLATIONS AND OTHER PUBLIC FACILITIES, INCLUDING STREETS, SIDEWALKS, STORMWATER AND HANDICAP RAMPS, HAVE BEEN APPROVED BY THE TOWN OF CHAPEL HILL AND SHALL BE SO INSTALLED UNLESS A CHANGE IS AUTHORIZED BY PRIOR WRITTEN APPROVAL. PUBLIC WATER/SANITARY SEWER, STORMWATER AND UTILITY EASEMENTS SHALL BE RECORDED PRIOR TO FINAL ACCEPTANCE AND/OR ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE TOWN.

THE TOWN OF CHAPEL HILL MAY REQUIRE REDESIGN AND/OR RECONSTRUCTION OF WORK SHOWN ON THE APPROVED PLANS, SUBSEQUENT TO SUCH APPROVAL, IF IT BECOMES EVIDENT THAT THE DESIGN IS INADEQUATE TO MEET THE ACTUAL FIELD CONDITIONS AND/OR IS BASED ON INCOMPLETE, INSUFFICIENT, INACCURATE OR MISLEADING DATA PORTRAYED ON THE APPROVED PLANS. THE TOWN OF CHAPEL HILL ACCEPTS NO RESPONSIBILITY FOR COSTS INVOLVED IN SUCH REDESIGN AND/OR RECONSTRUCTION.

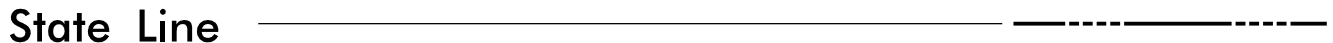









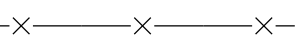



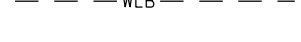





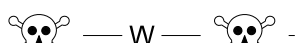
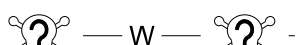
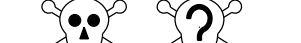

ENGINEERING SIGNATURE: _____
DATE: _____

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II







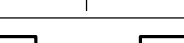

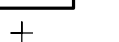


<p>GRAPHIC SCALES</p> <p>30 15 0 30 60</p> <p>PLANS</p>	<p>DESIGN DATA</p> <p>US 501 (FORDHAM BLVD) ADT 2020 = 25,500 V = 50 MPH</p> <p>SR 1750 (S. ESTES DR) ADT 2020 = 7,600 V = 40 MPH</p>	<p>PROJECT LENGTH</p> <p>LENGTH ROADWAY PROJECT 21370</p> <p>FORDHAM BLVD -L- = 0.231 MILES</p> <p>S. ESTES DRIVE -Y1- = 0.320 MILES</p>	<p>Prepared In the Office of: Infrastructure Consulting Services, Inc.</p> <p>RKA</p> <p>RAMEY KEMP ASSOCIATES</p> <p>5808 Farrington Place Raleigh, North Carolina 27609 Phone: 919-873-9116 www.rameykemp.com NC License No. F-1489</p>	<p>HYDRAULICS ENGINEER</p> <p>DocuSigned by: Michael D. Edwards 07D12A6959E5A7D...</p> <p>ROADWAY DESIGN ENGINEER</p> <p>DocuSigned by: Robert Williams 03F18B0FF6B84EE...</p>
		<p>NCDOT CONTACT:</p> <p>CHUCK EDWARDS, P.E. DISTRICT ENGINEER, DIVISION 7 DISTRICT 1 PH: 336-570-6833</p>	<p>2018 STANDARD SPECIFICATIONS</p> <p>RIGHT OF WAY DATE: _____</p> <p>LETTING DATE: _____</p>	<p>SEAL 43342</p> <p>SEAL 30932</p>

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS
CONVENTIONAL PLAN SHEET SYMBOLS

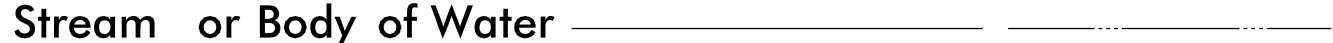

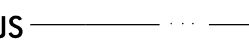
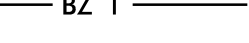
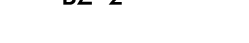




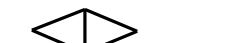

BOUNDARIES AND PROPERTY:

State Line	
County Line	
Township Line	
City Line	
Reservation Line	
Property Line	
Existing Iron Pin	
Computed Property Corner	
Property Monument	
Parcel/Sequence Number	
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Existing Historic Property Boundary	
Known Contamination Area: Soil	
Potential Contamination Area: Soil	
Known Contamination Area: Water	
Potential Contamination Area: Water	
Contaminated Site: Known or Potential	


BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	
Sign	
Well	
Small Mine	
Foundation	
Area Outline	
Cemetery	
Building	
School	
Church	
Dam	


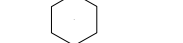




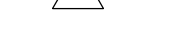






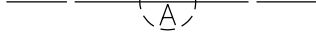

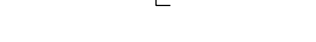






HYDROLOGY:

Stream or Body of Water	
Hydro, Pool or Reservoir	
Jurisdictional Stream	
Buffer Zone 1	
Buffer Zone 2	
Flow Arrow	
Disappearing Stream	
Spring	
Wetland	
Proposed Lateral, Tail, Head Ditch	
False Sump	

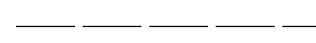
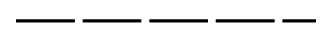
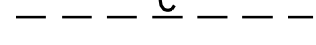
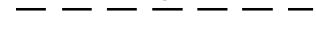







RAILROADS:

Standard Gauge	
RR Signal Milepost	
Switch	
RR Abandoned	
RR Dismantled	


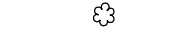
RIGHT OF WAY & PROJECT CONTROL:


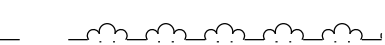


Secondary Horiz and Vert Control Point	
Primary Horiz Control Point	
Primary Horiz and Vert Control Point	
Exist Permanent Easment Pin and Cap	
New Permanent Easement Pin and Cap	
Vertical Benchmark	
Existing Right of Way Marker	
Existing Right of Way Line	
New Right of Way Line	
New Right of Way Line with Pin and Cap	
New Right of Way Line with Concrete or Granite R/W Marker	
New Control of Access Line with Concrete C/A Marker	
Existing Control of Access	
New Control of Access	
Existing Easement Line	
New Temporary Construction Easement	
New Temporary Drainage Easement	
New Permanent Drainage Easement	
New Permanent Drainage / Utility Easement	
New Permanent Utility Easement	
New Temporary Utility Easement	
New Aerial Utility Easement	

ROADS AND RELATED FEATURES:





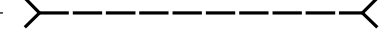

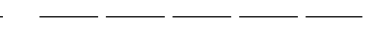

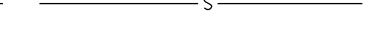
Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	
Proposed Slope Stakes Fill	
Proposed Curb Ramp	
Existing Metal Guardrail	
Proposed Guardrail	
Existing Cable Guiderail	
Proposed Cable Guiderail	
Equality Symbol	
Pavement Removal	

VEGETATION:












Single Tree	
Single Shrub	

Hedge	
Woods Line	
Orchard	
Vineyard	






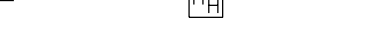




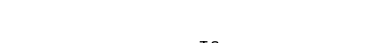

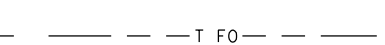
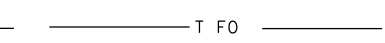

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	
Bridge Wing Wall, Head Wall and End Wall	
MINOR:	
Head and End Wall	
Pipe Culvert	
Footbridge	
Drainage Box: Catch Basin, DI or JB	
Paved Ditch Gutter	
Storm Sewer Manhole	
Storm Sewer	





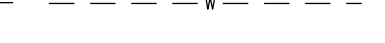
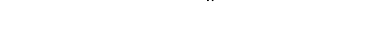
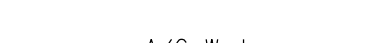

UTILITIES:

POWER:	
Existing Power Pole _____	
Proposed Power Pole _____	
Existing Joint Use Pole _____	
Proposed Joint Use Pole _____	
Power Manhole _____	
Power Line Tower _____	
Power Transformer _____	
U/G Power Cable Hand Hole _____	
H-Frame Pole _____	
U/G Power Line LOS B (S.U.E.*) _____	
U/G Power Line LOS C (S.U.E.*) _____	
U/G Power Line LOS D (S.U.E.*) _____	

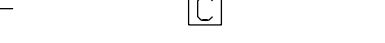

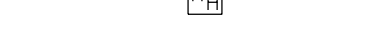






TELEPHONE:

Existing Telephone Pole	
Proposed Telephone Pole	
Telephone Manhole	
Telephone Pedestal	
Telephone Cell Tower	
U/G Telephone Cable Hand Hole	
U/G Telephone Cable LOS B (S.U.E.*)	
U/G Telephone Cable LOS C (S.U.E.*)	
U/G Telephone Cable LOS D (S.U.E.*)	
U/G Telephone Conduit LOS B (S.U.E.*)	
U/G Telephone Conduit LOS C (S.U.E.*)	
U/G Telephone Conduit LOS D (S.U.E.*)	
U/G Fiber Optics Cable LOS B (S.U.E.*)	
U/G Fiber Optics Cable LOS C (S.U.E.*)	
U/G Fiber Optics Cable LOS D (S.U.E.*)	



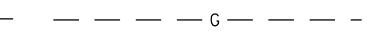
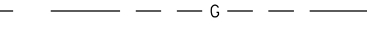
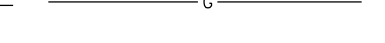

WATER:

Water Manhole	
Water Meter	
Water Valve	
Water Hydrant	
U/G Water Line LOS B (S.U.E.*)	
U/G Water Line LOS C (S.U.E.*)	
U/G Water Line LOS D (S.U.E.*)	
Above Ground Water Line	



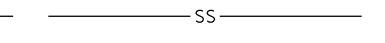
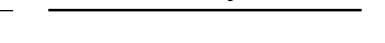
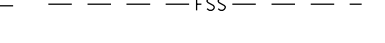
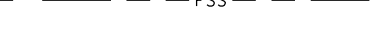

TV:

TV Pedestal	
TV Tower	
U/G TV Cable Hand Hole	
U/G TV Cable LOS B (S.U.E.*)	
U/G TV Cable LOS C (S.U.E.*)	
U/G TV Cable LOS D (S.U.E.*)	
U/G Fiber Optic Cable LOS B (S.U.E.*)	
U/G Fiber Optic Cable LOS C (S.U.E.*)	
U/G Fiber Optic Cable LOS D (S.U.E.*)	


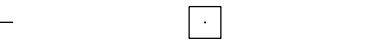


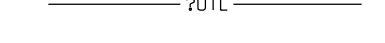
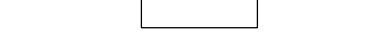
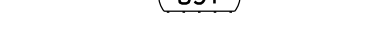



GAS:

Gas Valve	
Gas Meter	
U/G Gas Line LOS B (S.U.E.*)	
U/G Gas Line LOS C (S.U.E.*)	
U/G Gas Line LOS D (S.U.E.*)	
Above Ground Gas Line	

SANITARY SEWER:

Sanitary Sewer Manhole	
Sanitary Sewer Cleanout	
U/G Sanitary Sewer Line	
Above Ground Sanitary Sewer	
SS Forced Main Line LOS B (S.U.E.*)	
SS Forced Main Line LOS C (S.U.E.*)	
SS Forced Main Line LOS D (S.U.E.*)	

MISCELLANEOUS:

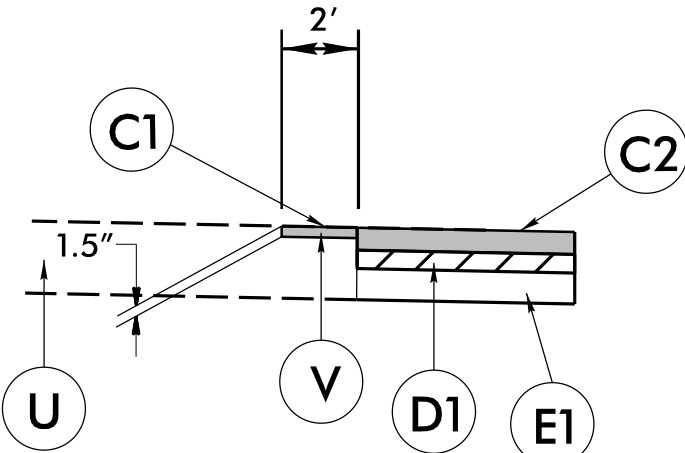
Utility Pole	
Utility Pole with Base	
Utility Located Object	
Utility Traffic Signal Box	
Utility Unknown U/G Line LOS B (S.U.E.*)	
U/G Tank; Water, Gas, Oil	
Underground Storage Tank, Approx. Loc.	
A/G Tank; Water, Gas, Oil	
Geoenvironmental Boring	
U/G Test Hole LOS A (S.U.E.*)	
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

8/17/99

REVISIONS

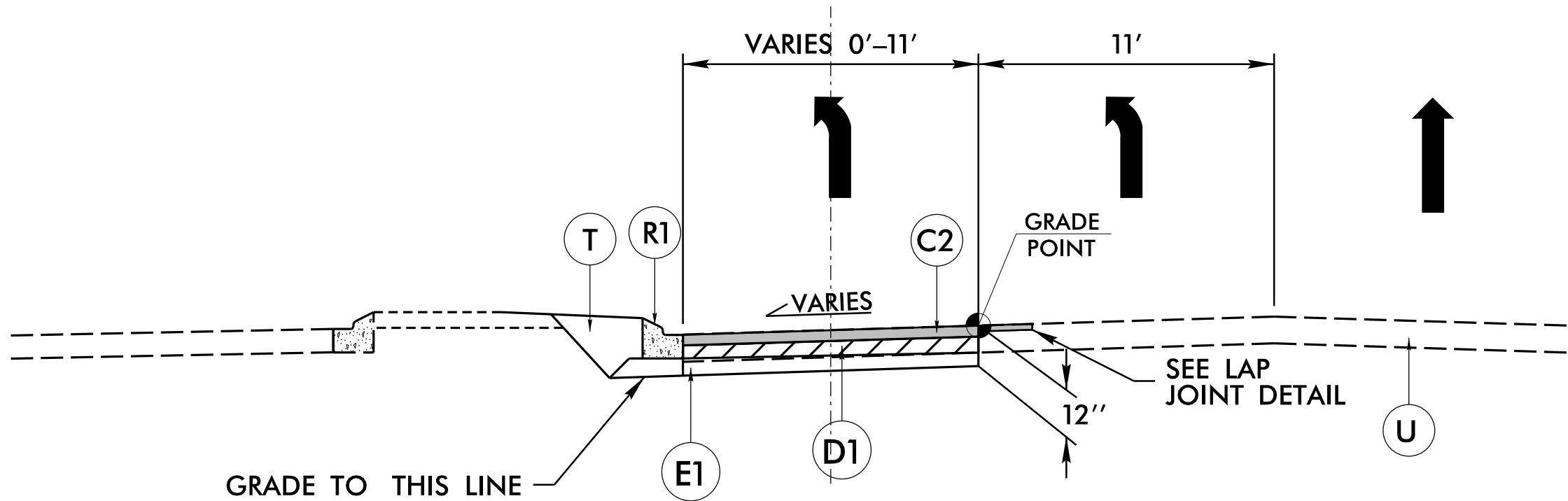
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 3.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
R1	1'-6" CURB AND GUTTER
R2	2'-6" CURB AND GUTTER
R3	5" MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED)
T	COMPACTED EARTH MATERIAL
U	EXISTING PAVEMENT
V	1.5" MILLING

- NOTES: 1. ALL PAVEMENT SLOPES ARE 1:1 UNLESS OTHERWISE SPECIFIED.
2. SEE PLANS FOR LOCATIONS OF CONCRETE ISLANDS, TURN LANES, AND TAPERS.
3. CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT EDGE TO ENSURE CLEAN JOINTS FOR TIE IN.



LAP JOINT DETAIL

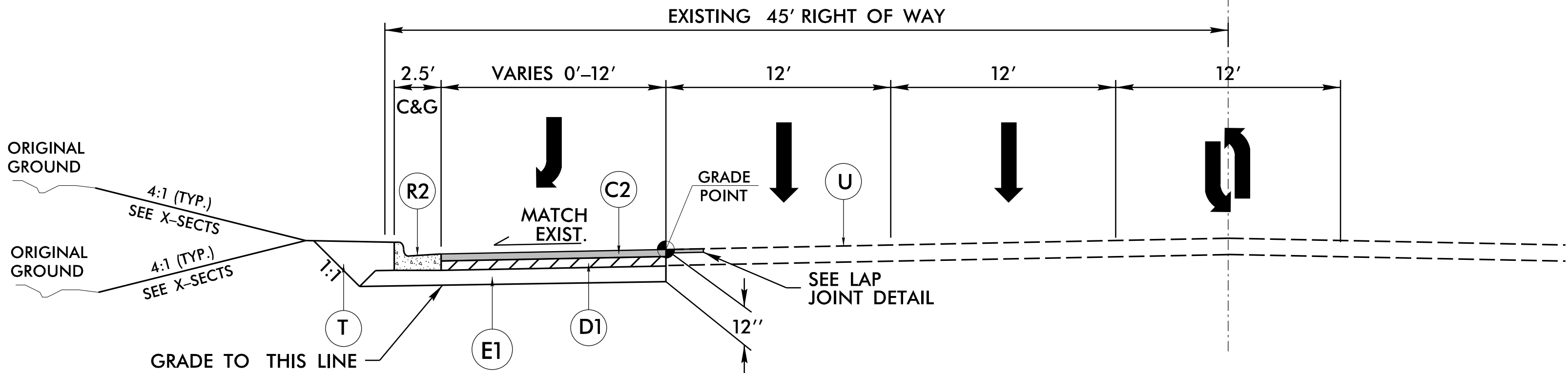
CL -L- US 15-105 (FORDHAM BOULEVARD)



TYPICAL SECTION NO. 1

-L- STA. 13+62.93 TO STA. 20+87.15

CL -Y1- SR 1750 (S. ESTES DRIVE)

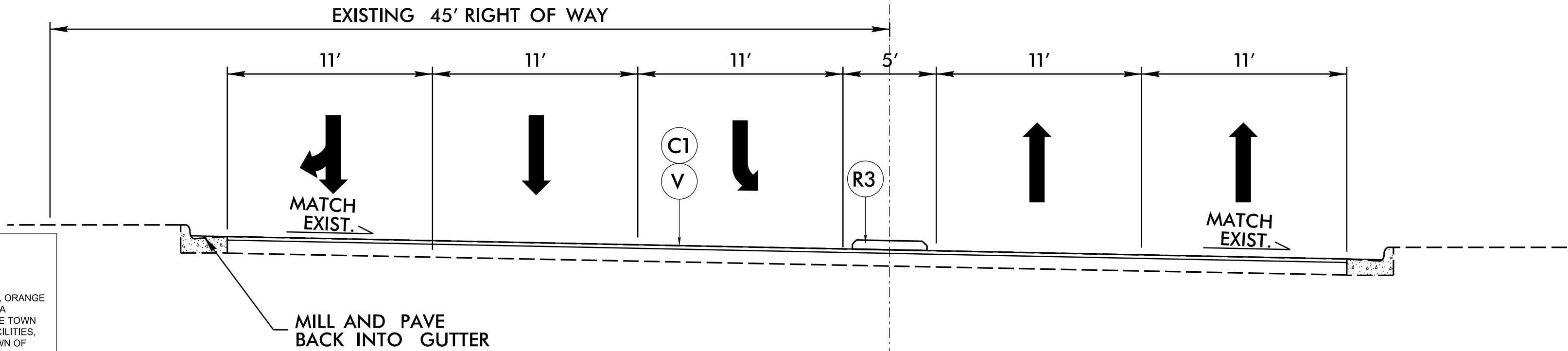


TYPICAL SECTION NO. 2

-Y1- STA. 1009+95.48 TO STA. 1013+54.78

-Y1- STA. 1014+82.44 TO STA. 1020+26.23



CL -Y1- SR 1750 (S. ESTES DRIVE)



TYPICAL SECTION NO. 3

-Y1- STA. 1003+42.81 TO STA. 1007+07.48

Infrastructure Consulting Services, Inc.
RKA
RAMEY KEMP ASSOCIATES
5808 Faringdon Place
Raleigh, North Carolina 27609
Phone: 919-872-5115
NC License No. F-1489
www.rameykemp.com

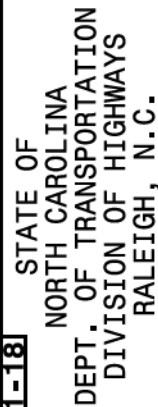
PROJECT REFERENCE NO.		SHEET NO.
21370		2A-1
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

TOWN OF CHAPEL HILL
CONSTRUCTION PLAN APPROVAL

ALL CONSTRUCTION METHODS AND MATERIALS SHALL BE IN ACCORDANCE WITH THE TOWN OF CHAPEL HILL, ORANGE WATER AND SEWER AUTHORITY (OWASA), AND NCDOT STANDARDS AND SPECIFICATIONS. IN THE EVENT OF A CONFLICT BETWEEN STANDARDS, THE MORE STRINGENT SHALL GOVERN UNLESS A WAIVER IS ISSUED BY THE TOWN ENGINEER AND/OR AUTHORITY HAVING JURISDICTION (AHJ). UTILITY INSTALLATIONS AND OTHER PUBLIC FACILITIES, INCLUDING STREETS, SIDEWALKS, STORMWATER AND HANDICAP RAMPS, HAVE BEEN APPROVED BY THE TOWN OF CHAPEL HILL AND SHALL BE SO INSTALLED UNLESS A CHANGE IS AUTHORIZED BY PRIOR WRITTEN APPROVAL. PUBLIC WATER/SANITARY SEWER, STORMWATER AND UTILITY EASEMENTS SHALL BE RECORDED PRIOR TO FINAL ACCEPTANCE AND/OR ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE TOWN.

THE TOWN OF CHAPEL HILL MAY REQUIRE REDESIGN AND/OR RECONSTRUCTION OF WORK SHOWN ON THE APPROVED PLANS, SUBSEQUENT TO SUCH APPROVAL, IF IT BECOMES EVIDENT THAT THE DESIGN IS INADEQUATE TO MEET THE ACTUAL FIELD CONDITIONS AND/OR IS BASED ON INCOMPLETE, INSUFFICIENT, INACCURATE OR MISLEADING DATA PORTRAYED ON THE APPROVED PLANS. THE TOWN OF CHAPEL HILL ACCEPTS NO RESPONSIBILITY FOR COSTS INVOLVED IN SUCH REDESIGN AND/OR RECONSTRUCTION.

ENGINEERING SIGNATURE:
DATE:



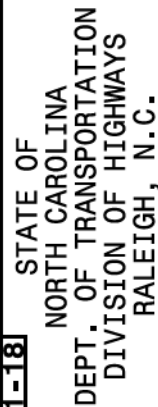
ROADWAY STANDARD DRAWING FOR CONCRETE CATCH BASIN

SHEET 1 OF 2
840.02

[illegible]

* RISER HAS .228 CUBIC YARDS OF CONCRETE PER FOOT HEIGHT

SHEET 2 OF 2
840.02



ROADWAY STANDARD DRAWING FOR FRAME, GRATES, AND HOOD

SHEET 1 OF 2
840-03



ROADWAY STANDARD DRAWING FOR FRAME, GRATES, AND HOOD

SHEET 2 OF 2
840-03

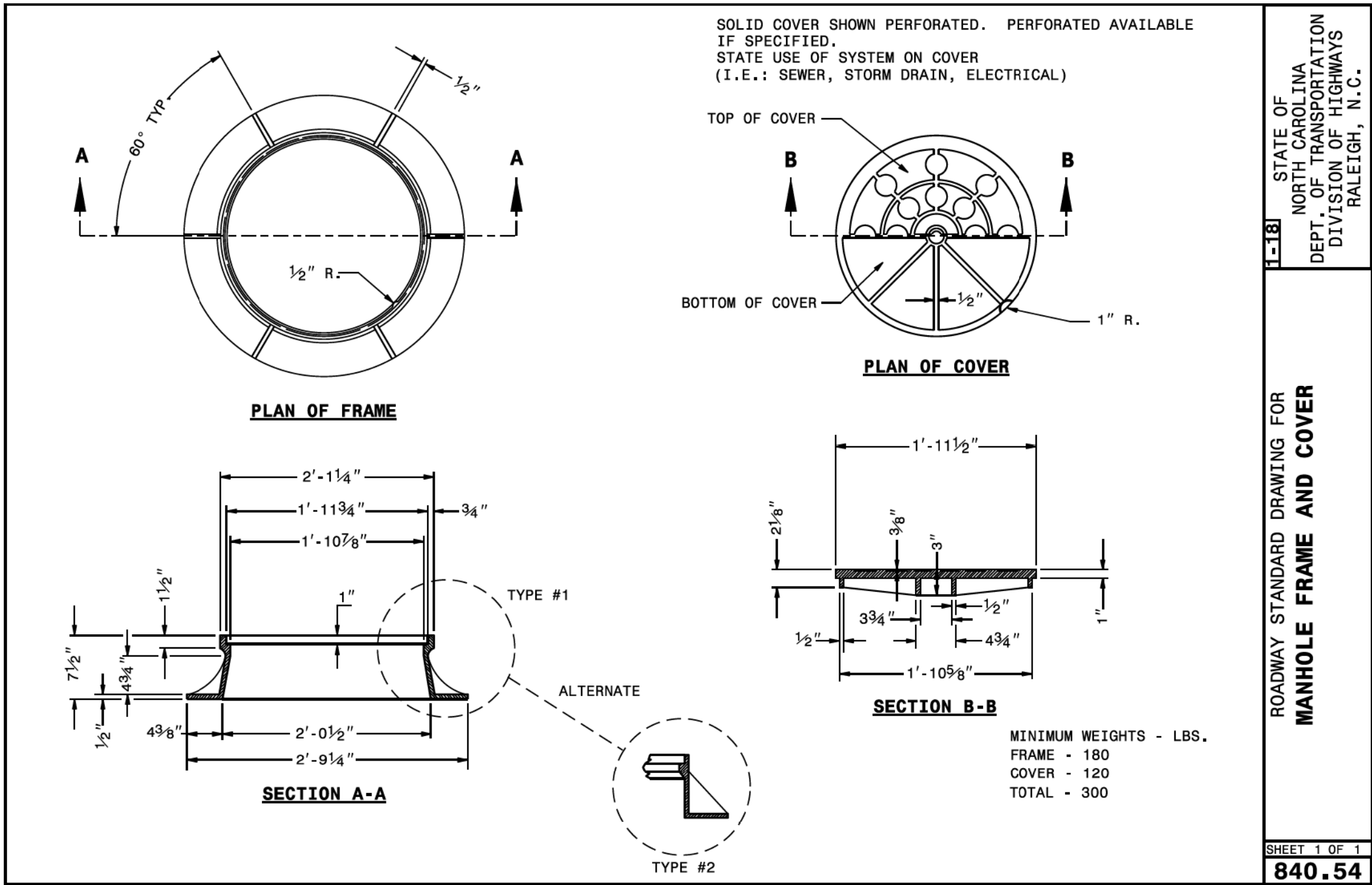
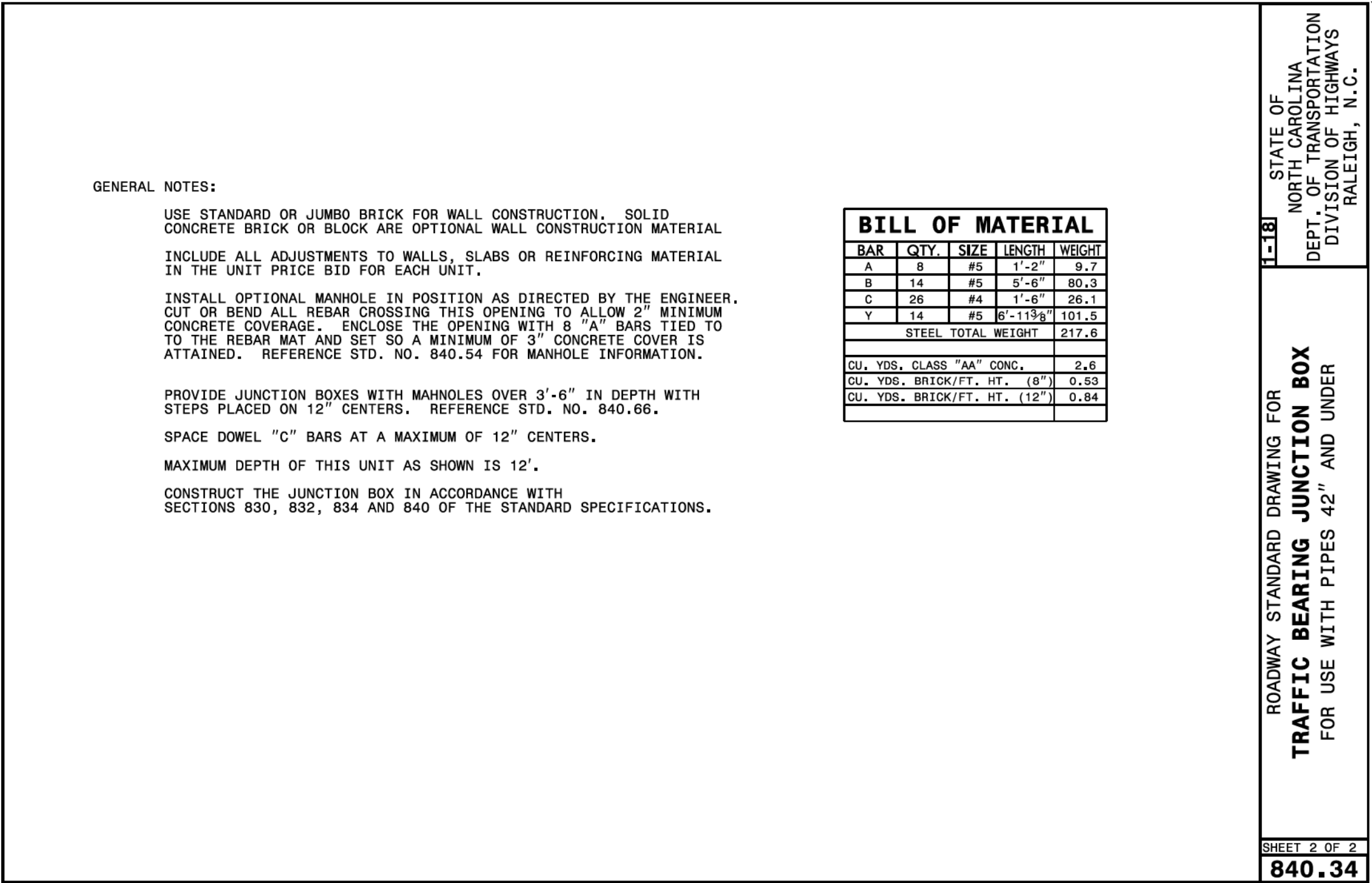
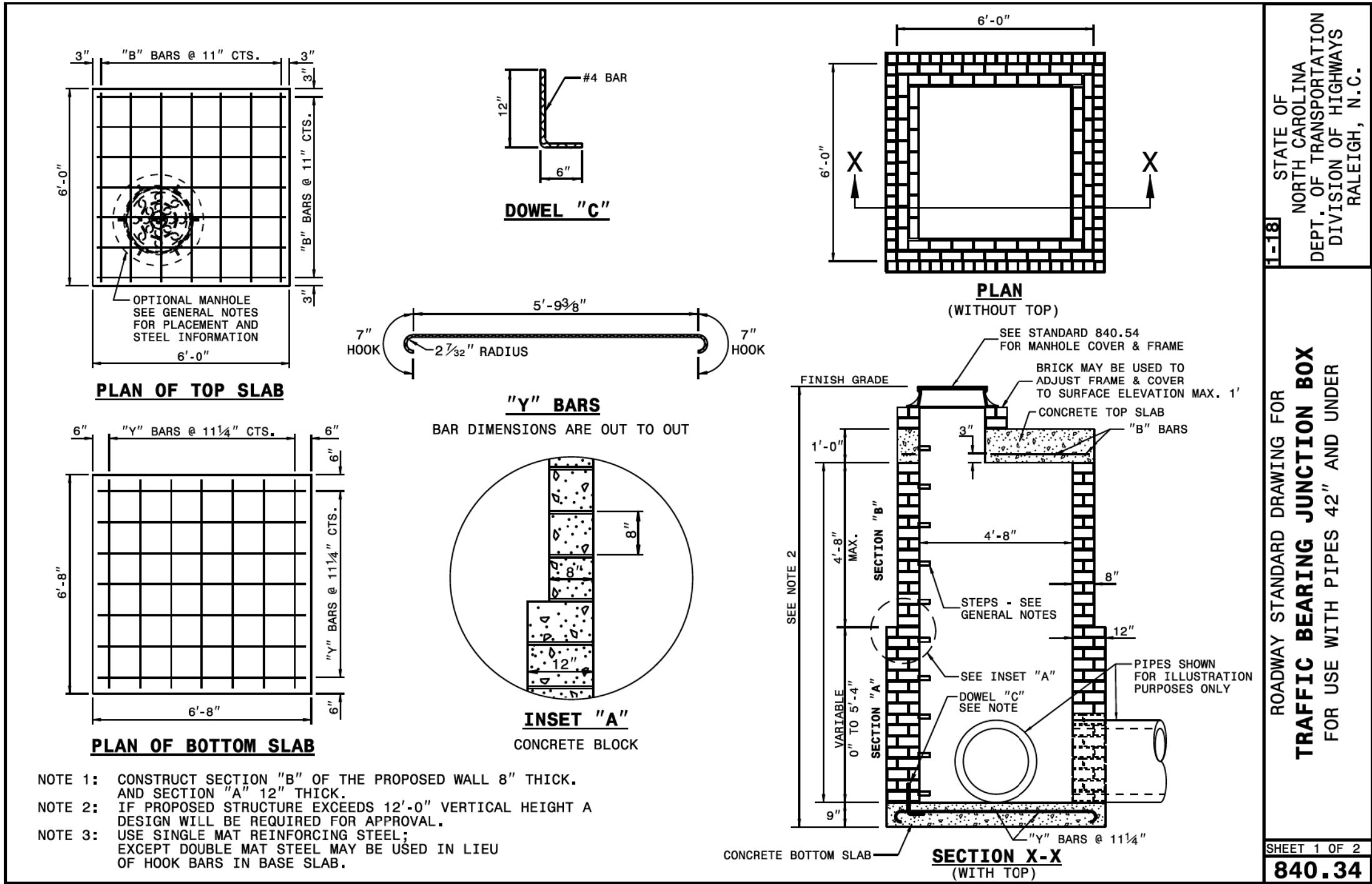
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CONSTRUCTION PLAN APPROVAL

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ENGINEERING SIGNATURE: _____
DATE: _____

REVISIONS





TOWN OF CHAPEL HILL
CONSTRUCTION PLAN APPROVAL

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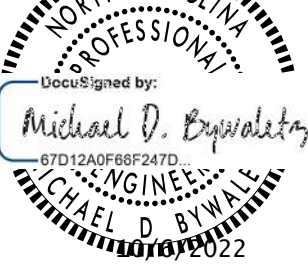
ENGINEERING SIGNATURE:
DATE:

Infrastructure Consulting Services, Inc.
RKA
RAMEY KEMP ASSOCIATES
5808 Faringdon Place
Raleigh, North Carolina 27609
Phone: 919-872-5115
NC License No. F-1489
www.rameykemp.com

PROJECT REFERENCE NO.		SHEET NO.	
21370		2B-2	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

8/17/99

Infrastructure Consulting Services, Inc.
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PROJECT REFERENCE NO.		SHEET NO.
21370		4
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ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
		
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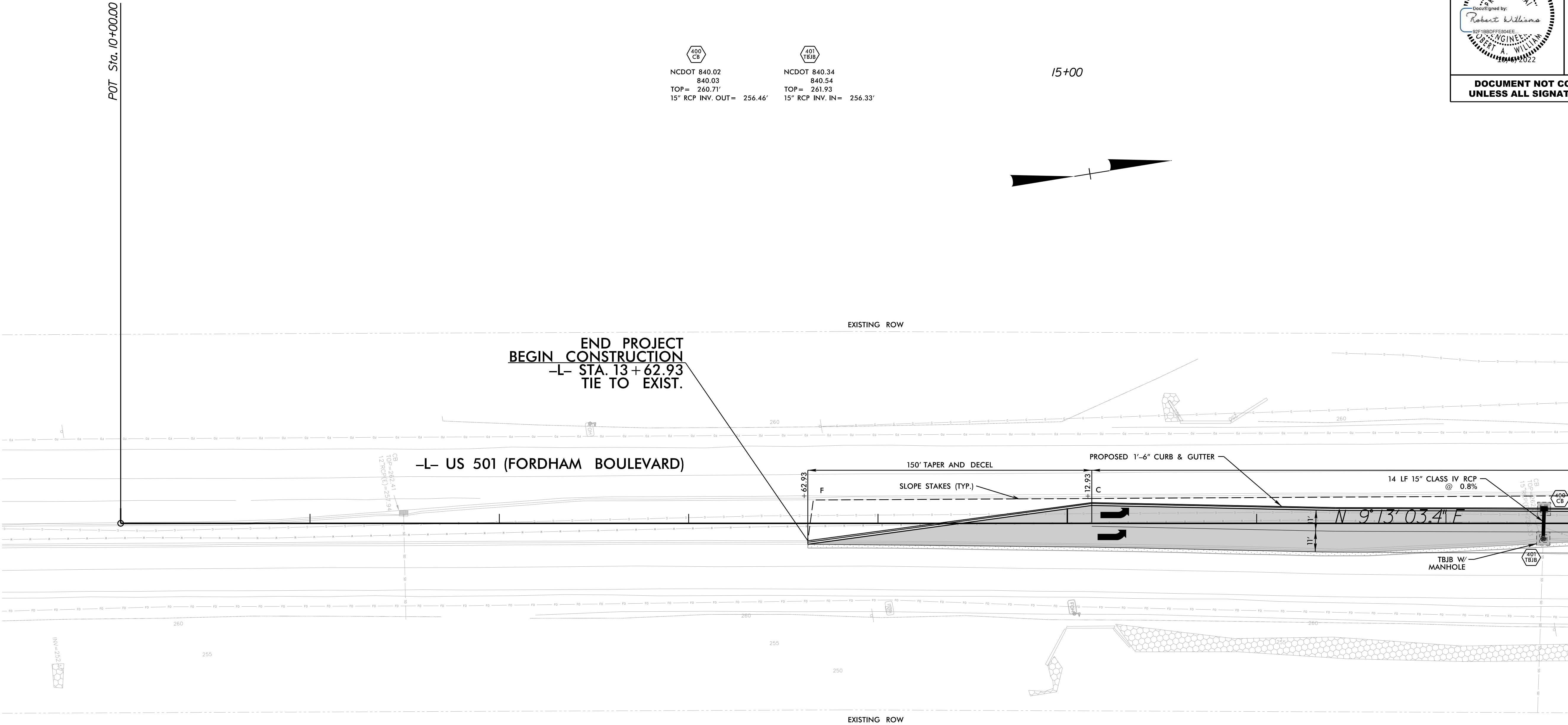
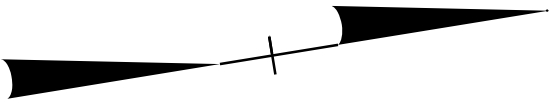
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C&B

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840.03
TOP= 260.71'
15" RCP INV. OUT= 256.46'

401
T&B

NCDOT 840.34
840.54
TOP= 261.93
15" RCP INV. IN= 256.33'

15+00



MATCHLINE -L- STA. 17+65
SEE SHEET 5

TOWN OF CHAPEL HILL
CONSTRUCTION PLAN APPROVAL

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ENGINEERING SIGNATURE:
DATE:

	FULL DEPTH PAVEMENT
	CONCRETE MONOLITHIC ISLAND
	MILL AND OVERLAY

REVISIONS

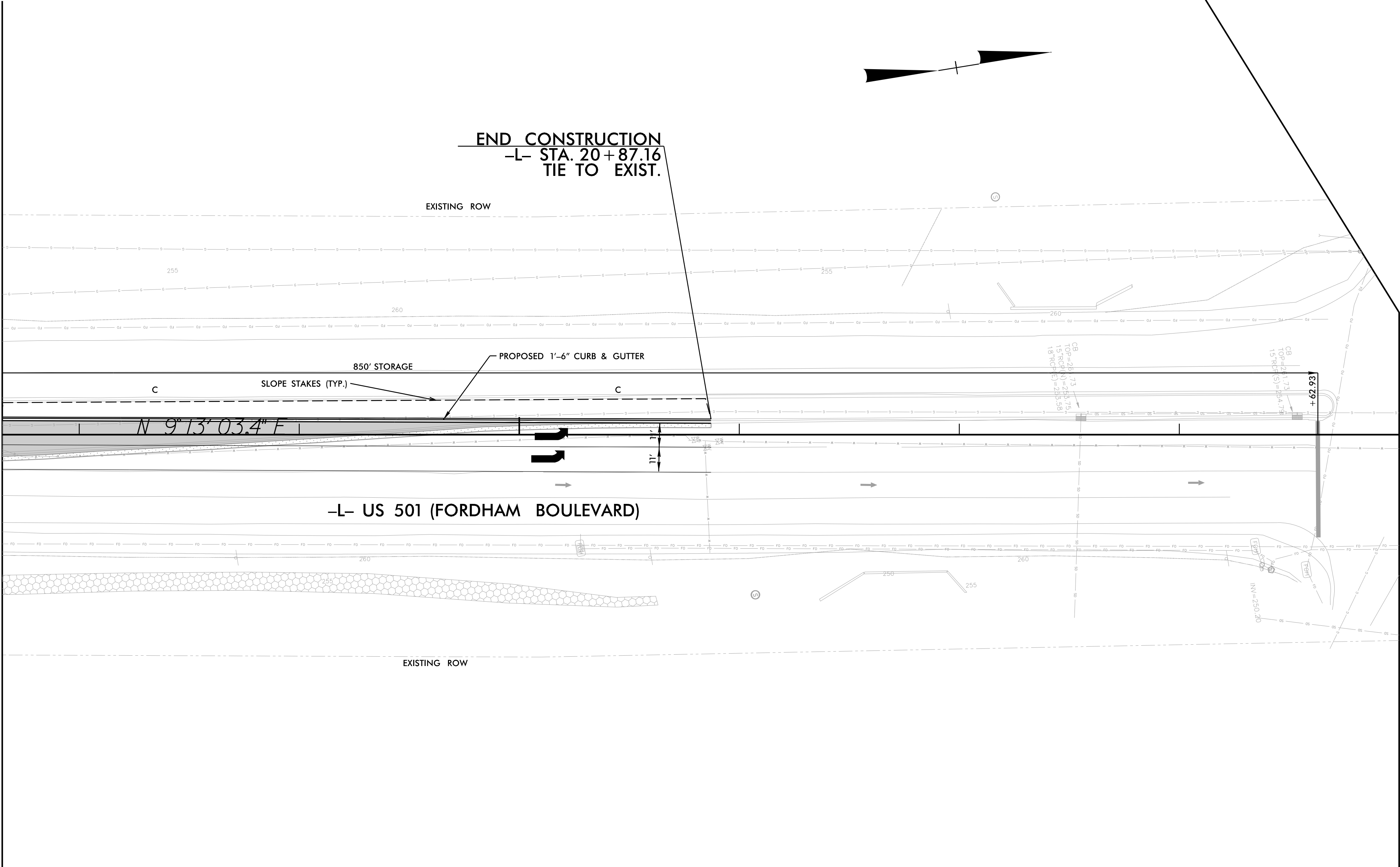
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REVISIONS

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MATCHLINE -L- STA. 17 + 65.00
SEE SHEET 4



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	CONCRETE MONOLITHIC ISLAND
	MILL AND OVERLAY

MATCHLINE -L- STA. 24 + 00.00
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PROJECT REFERENCE NO.		SHEET NO.
21370		5
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
		
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8/17/99

REVISIONS

10/6/2022
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TOWN OF CHAPEL HILL
CONSTRUCTION PLAN APPROVAL

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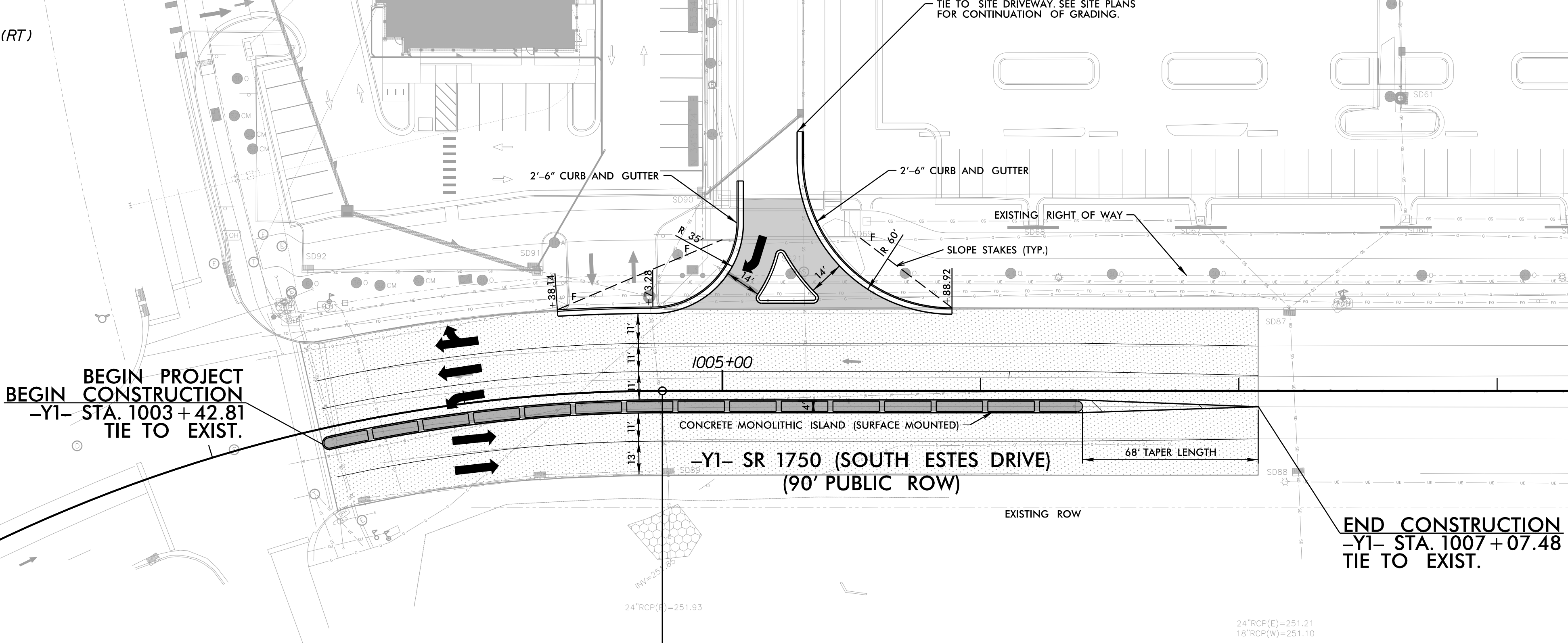
ENGINEERING SIGNATURE:
DATE:

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D = 9° 32' 57.5"
L = 284.34'
T = 144.89'
R = 600.00'

BEGIN PROJECT
BEGIN CONSTRUCTION
-Y1- STA. 1003 + 42.81
TIE TO EXIST.

PC Sta. 1001+62.43



PT Sta. 1004+76.77



END CONSTRUCTION
-Y1- STA. 1007 + 07.48
TIE TO EXIST.

	FULL DEPTH PAVEMENT
	CONCRETE MONOLITHIC ISLAND
	MILL AND OVERLAY

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PROJECT REFERENCE NO.		SHEET NO.
21370		6
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
		
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MATCHLINE -Y1- STA. 1008 + 50.00
SEE SHEET 7

8/17/99

REVISIONS

10/6/2022
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User: SMCCarthy

TOWN OF CHAPEL HILL
CONSTRUCTION PLAN APPROVAL

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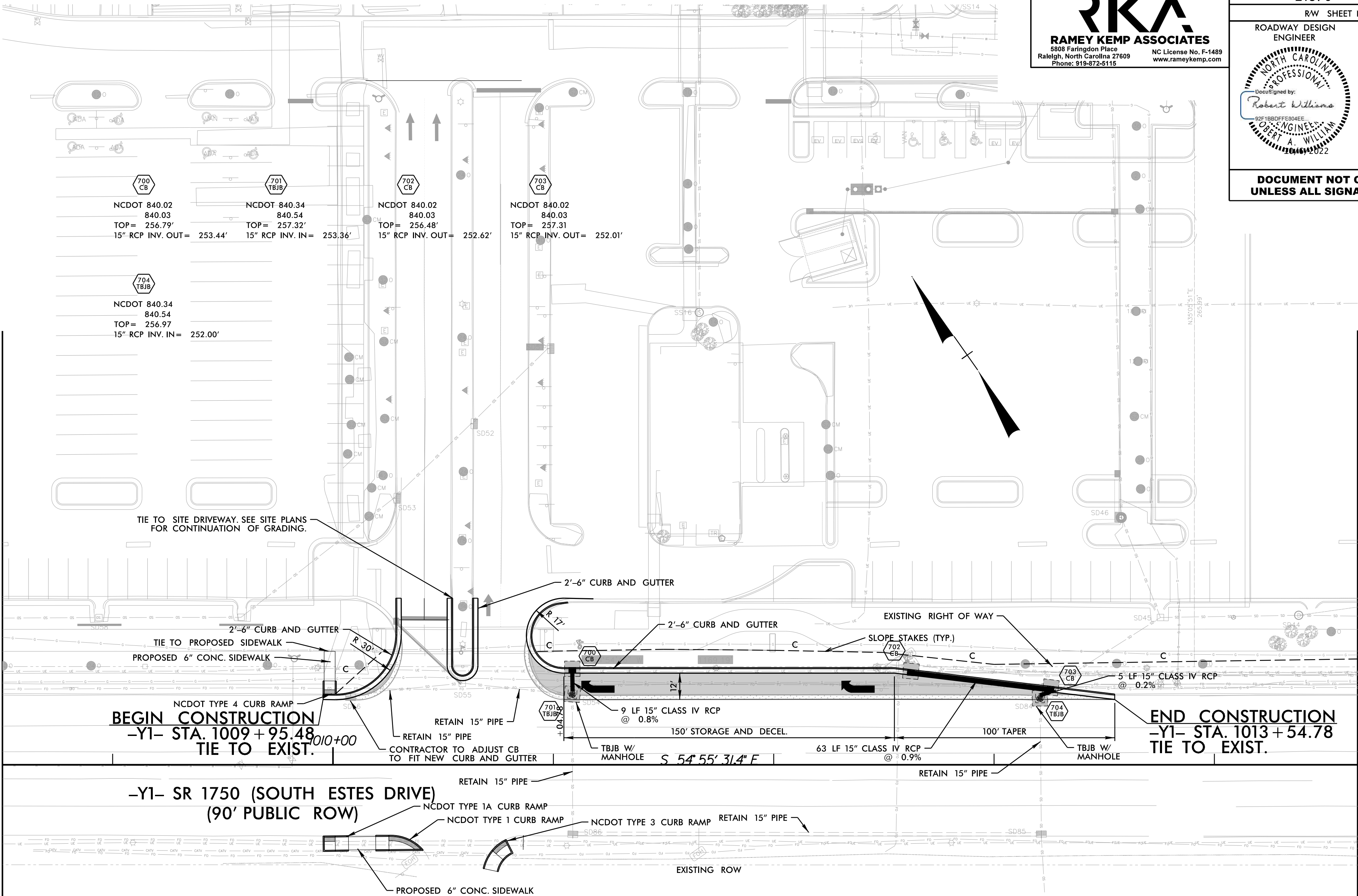
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PROJECT REFERENCE NO.
21370
SHEET NO.
7

RW SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL ENGINEER
DESIGNED BY:
Robert Williams
22F18BDFE804EE
ROBERT A. WILLIAM
10/06/2022
NORTH CAROLINA PROFESSIONAL ENGINEER
DESIGNED BY:
Michael D. Byrnes
22F18BDFE804EE
MICHAEL D. BYRNES
10/06/2022



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UNLESS ALL SIGNATURES COMPLETED

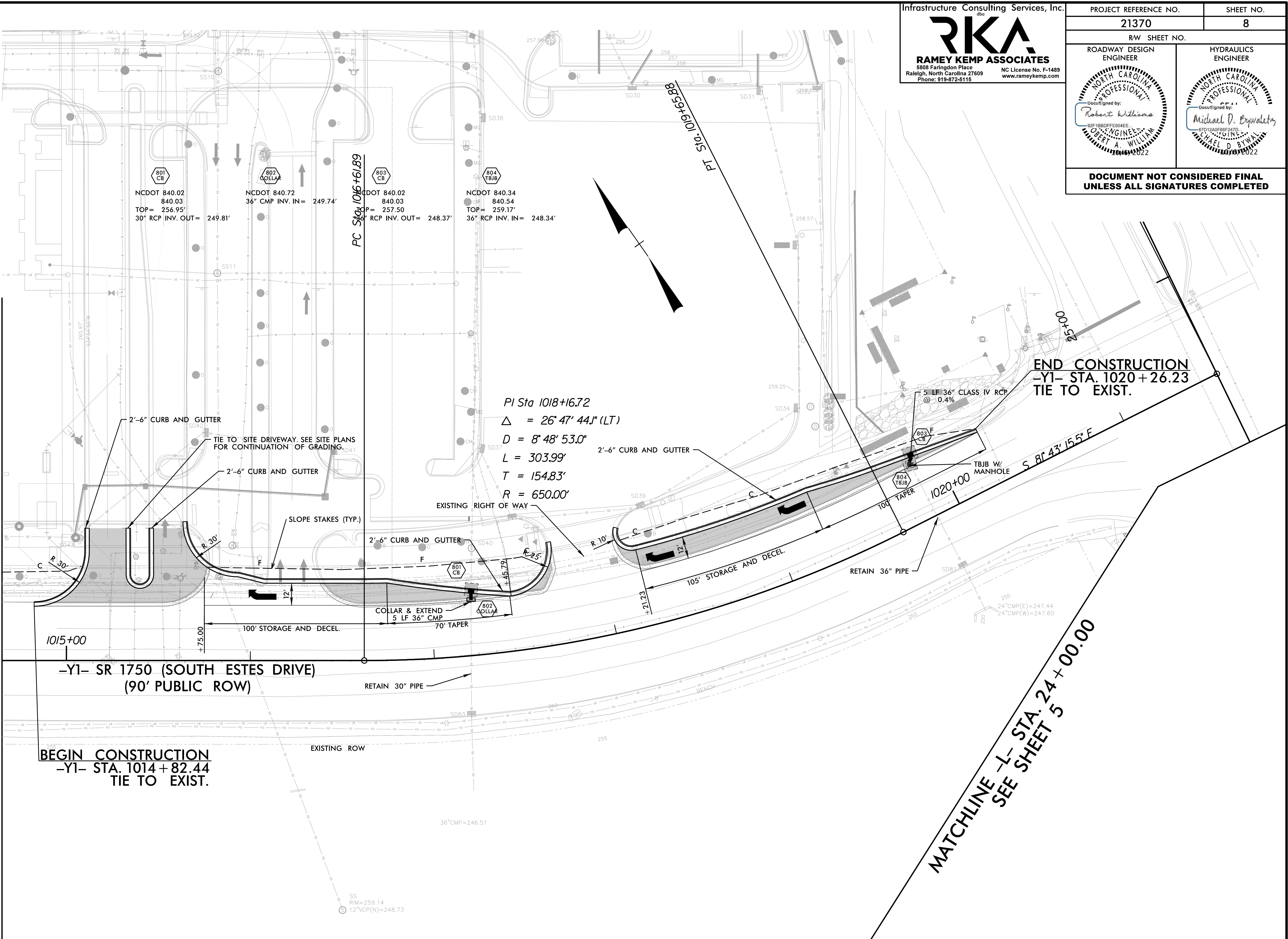
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SEE SHEET 6



MATCHLINE -Y1- STA. 1014 + 65.00
SEE SHEET 8

	FULL DEPTH PAVEMENT
	CONCRETE MONOLITHIC ISLAND
	MILL AND OVERLAY

PROJECT REFERENCE NO.		SHEET NO.	
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RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
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

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ENGINEERING SIGNATURE: _____
DATE: _____

	FULL DEPTH PAVEMENT
	CONCRETE MONOLITHIC ISLAND
	MILL AND OVERLAY

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER. TRAFFIC CONTROL MAY BE REVISED BY THE NCDOT INSPECTOR IN THE FIELD IF NEEDED.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
US 15-501 (FORDHAM BOULEVARD)	MONDAY THRU FRIDAY 6AM TO 9AM; 4PM TO 7PM
SR 1750 (SOUTH ESTES DRIVE)	MONDAY THRU FRIDAY 6AM TO 9AM; 4PM TO 7PM

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR’S, BETWEEN THE HOURS OF 7:00 P.M. DECEMBER 31st TO 6:00 A.M. JANUARY 2ND. IF NEW YEAR’S DAY IS ON A FRIDAY,SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:00 A.M. THE FOLLOWING TUESDAY.

- FOR EASTER, BETWEEN THE HOURS OF 7:00 P.M. THURSDAY AND 6:00 A.M. MONDAY.

- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 P.M. FRIDAY TO 6:00 A.M. TUESDAY.

- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 P.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 A.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 7:00 P.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 6:00 A.M. THE TUESDAY AFTER INDEPENDENCE DAY.

- FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 P.M. FRIDAY TO 6:00 A.M. TUESDAY.

- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 P.M. TUESDAY AND 6:00 A.M. MONDAY.

- FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 P.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 A.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

- FOR CHRISTMAS PARADE, BETWEEN THE HOURS OF 7:00 P.M. THE (DAY) OF THE WEEK OF THE CHRISTMAS PARADE AND 6:00 A.M. THE FOLLOWING (DAY) AFTER THE WEEK OF THE CHRISTMAS PARADE.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- B) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.

- C) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.

- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRANSPORTATION MANAGEMENT PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

- F) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

- G) DO NOT INSTALL MORE THAN ONE SIMULTANEOUS LANE CLOSURE IN ANY ONE DIRECTION ON ALL ROADS.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- H) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:
BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

- I) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 200 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.



PROJECT REFERENCE NO.
21370

SHEET NO.
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TOWN OF CHAPEL HILL
CONSTRUCTION PLAN APPROVAL

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ENGINEERING SIGNATURE:

DATE:

GENERAL NOTES CONT.

TRAFFIC PATTERN ALTERATIONS

J) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- K) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- L) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.
- M) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.
- N) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

- O) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.
- P) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

- Q) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:
- | ROAD NAME | MARKING | MARKER |
|-----------------------------------|---------|--------|
| -L- US 15-501 (FORDHAM BOULEVARD) | PAINT | NONE |
| -Y1- SR 1750 (SOUTH ESTES DRIVE) | PAINT | NONE |
- R) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- S) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY’S OPERATION.
- T) TRACE THE EXISTING AND PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO REMOVAL AND INSTALLATION. PLACE CONES TO DELINEATE ANY EXISTING AND PROPOSED MONOLITHIC ISLANDS AFTER REMOVAL AND BEFORE INSTALLATION.

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUM
1150.01	FLAGGERS



PROJECT REFERENCE NO.

21370

SHEET NO.

TMP- 2

SEAL

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TOWN OF CHAPEL HILL
CONSTRUCTION PLAN APPROVAL

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ENGINEERING SIGNATURE:
DATE:

PHASING NOTES

BEFORE BEGINNING ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS AND TRAFFIC CONTROL DEVICES (RSD 1101.01). FIELD VERIFY LOCATIONS WITH THE RESIDENT ENGINEER PRIOR TO INSTALLATION.

MAINTAIN VEHICULAR ACCESS TO ALL RESIDENCES, SCHOOLS, BUS STOPS, EMERGENCY SERVICES, AND BUSINESSES DURING THE LIFE OF THE CONTRACT, PRIOR TO INCORPORATION, OBTAIN WRITTEN APPROVAL FROM THE ENGINEER ON METHOD TO MAINTAIN ACCESS.

COMPLETE ANY PROPOSED OR TEMPORARY WIDENING IN SUCH A MANNER THAT NO PONDING OF WATER WILL OCCUR WITHIN THE TRAVEL LANE.

WHEN USING LANE CLOSURES (RSD 1101.02), RETURN TRAFFIC TO EXISTING AND/OR TEMPORARY TRAFFIC PATTERN UPON ACTIVITIES COMPLETION, UNLESS OTHERWISE NOTED IN THE PHASING PLANS.

WHEN PHASING STATES TO USE LANE CLOSURES, REFER TO THE FOLLOWING FOR ALL EXISTING AND PROPOSED ROADS:

- ALL TWO-LANE/TWO-WAY FACILITIES SEE RSD 1101.02 SHEET 1 OF 14
- ALL 3-LANE OR 5-LANE ROADWAYS SEE RSD 1101.02 SHEET 2 OF 14
- ALL MULTI-LANE FACILITIES POSTED < 60 MPH SEE RSD 1101.02 SHEET 3 OF 14
- ALL MULTI-LANE FACILITIES POSTED > 60 MPH SEE RSD 1101.02 SHEET 4 OF 14
- ALL UNDIVIDED MULTI-LANE FACILITIES SEE RSD 1101.02 SHEET 7 OF 14
- ALL ENTRANCE AND EXIT RAMPS SEE RSD 1101.02 SHEETS 9 AND 10 OF 14
- ALL ENTRANCE AND EXIT RAMPS SEE RSD 1101.02 SHEETS 9 AND 10 OF 14

COMPLETE PAVING UP TO, BUT NOT INCLUDING, THE FINAL LAYER OF SURFACE COURSE UNTIL STATED TO PLACE FINAL LAYER IN THE PHASING PLANS.

WHEN WEDGING OVER EXISTING PAVEMENT, WEDGE TO PROPOSED ELEVATION (LESS THE FINAL LAYER OF SURFACE COURSE), OR WEDGE AS NEEDED TO MAINTAIN TRAFFIC. MAINTAIN POSITIVE DRAINAGE AND MAINTAIN A MAXIMUM 0.04 ROLLOVER IN BOTH EXISTING AND/OR TEMPORARY TRAVEL LANES.

REPLACE MARKINGS AND RETURN TRAFFIC TO THE CURRENT TRAFFIC PATTERN AT THE END OF EACH WORK PERIOD UNLESS OTHERWISE NOTED IN THE PHASING OR DIRECTED BY THE ENGINEER.

FOR ALL SHOULDER CLOSURES, SEE RSD 1101.04. WHEN PORTABLE CONCRETE BARRIER (PCB) IS PRESENT ON SHOULDERS, PLACE SHOULDER CLOSURE SIGNS & DEVICES IN ADVANCE OF PCB.

PHASING PLAN

IN A CONTINUOUS MANNER, COMPLETE THE FOLLOWING WORK OF PHASE I, PHASE II AND PHASE III/ CONSTRUCTION SHALL INCLUDE ROADWAY AND DRAINAGE IMPROVEMENTS ALONG US 15-501 (FORDHAM BOULEVARD) AND SR 1750 (SOUTH ESTES DRIVE). CONTRACTOR MUST MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES. TRAFFIC CONTROL MAY BE REVISED BY THE NCDOT INSPECTOR IN THE FIELD IF NEEDED.

PHASE I

- STEP 1 -- INSTALL WORK ZONE ADVANCE WARNING SIGNS.
- STEP 2 -- AWAY FROM TRAFFIC, USING LANE CLOSURES AND FLAGGERS AS NEEDED, CLOSE NORTHBOUND AND SOUTHBOUND INSIDE THROUGH LANES ON US 15-501 (FORDHAM BOULEVARD). COMPLETE CONSTRUCTION OF NEW LEFT TURN LANES, CURB AND GUTTER, AND DRAINAGE IMPROVEMENTS ALONG -L- US 15-501 (FORDHAM BOULEVARD) FROM -L- STA. 13+63 +/- TO 20+87 +/- INCLUDING THE FINAL SURFACE COURSE.
- STEP 3 -- AWAY FROM TRAFFIC, USING LANE CLOSURES AND FLAGGERS AS NEEDED, INSTALL FINAL PAVEMENT MARKINGS AND MARKERS ALONG -L- US 15-501 (FORDHAM BOULEVARD).
- STEP 4 -- REMOVE ALL REMAINING TRAFFIC CONTROL DEVICES AND WORK ZONE SIGNS. OPEN ALL LANES ON -L- US 15-501 (FORDHAM BOULEVARD) TO TRAFFIC.

PHASE II

- STEP 1 -- INSTALL WORK ZONE ADVANCE WARNING SIGNS.
- STEP 2 -- AWAY FROM TRAFFIC, USING LANE CLOSURES AND FLAGGERS AS NEEDED, CLOSE WESTBOUND OUTSIDE THROUGH LANE ON SR 1750 (SOUTH ESTES DRIVE). COMPLETE CONSTRUCTION OF NEW RIGHT TURN LANES, SITE DRIVEWAYS, CURB AND GUTTER, AND DRAINAGE IMPROVEMENTS ALONG -Y1- SR 1750 (SOUTH ESTES DRIVE) FROM -Y1- STA. 1003+45 +/- TO 1020+31 +/- INCLUDING THE FINAL SURFACE COURSE.
- STEP 3 -- AWAY FROM TRAFFIC, USING LANE CLOSURES AND FLAGGERS AS NEEDED, INSTALL FINAL PAVEMENT MARKINGS AND MARKERS ALONG -Y1- SR 1750 (SOUTH ESTES DRIVE).
- STEP 4 -- REMOVE ALL REMAINING TRAFFIC CONTROL DEVICES AND WORK ZONE SIGNS. OPEN ALL LANES ON -Y1- SR 1750 (SOUTH ESTES DRIVE) TO TRAFFIC.

PHASE III

- STEP 1 -- INSTALL WORK ZONE ADVANCE WARNING SIGNS.
- STEP 2 -- AWAY FROM TRAFFIC, USING LANE CLOSURES AND FLAGGERS AS NEEDED, CLOSE WESTBOUND AND EASTBOUND INSIDE THROUGH LANES ON SR 1750 (SOUTH ESTES DRIVE). COMPLETE CONSTRUCTION OF NEW LEFT TURN LANES, CURB AND GUTTER, MEDIAN, AND DRAINAGE IMPROVEMENTS ALONG -Y1- SR 1750 (SOUTH ESTES DRIVE) FROM -Y1- STA. 1003+45 +/- TO 1007+08 +/- INCLUDING THE FINAL SURFACE COURSE.
- STEP 3 -- AWAY FROM TRAFFIC, USING LANE CLOSURES AND FLAGGERS AS NEEDED, INSTALL FINAL PAVEMENT MARKINGS AND MARKERS ALONG -Y1- SR 1750 (SOUTH ESTES DRIVE).
- STEP 4 -- REMOVE ALL REMAINING TRAFFIC CONTROL DEVICES AND WORK ZONE SIGNS. OPEN ALL LANES ON -Y1- SR 1750 (SOUTH ESTES DRIVE) TO TRAFFIC.



PROJECT REFERENCE NO.	SHEET NO.
21370	TMP- 3
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CONSTRUCTION PLAN APPROVAL

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ENGINEERING SIGNATURE:
DATE:

PROJECT: UNIVERSITY PLACE OFFSITE ROADWAY

PAVEMENT MARKING PLAN

ORANGE COUNTY

LOCATION: US 15-501 (FORDHAM BOULEVARD) AT SR 1750 (S. ESTES DRIVE)

PROJECT NO.	SHEET NO.
21370	PMP - 1
APPROVED: <div>DesigSigned by: William J. Hamilton 403250704648484...</div>	
DATE: 10/6/2022	
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ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN COVER SHEET AND PAVEMENT MARKING SCHEDULE
PMP-2-6	PAVEMENT MARKING DETAILS

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

- A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
ALL ROADS	THERMOPLASTIC	RAISED

- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- D) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
- E) REFER TO APPROVED SIGNAL PLANS FOR STOP BAR LOCATIONS AT SIGNALIZED INTERSECTIONS.

PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
THERMOPLASTIC(4", 90 MILS)	
T2	WHITE SOLID LANE LINE
T3	10 FT. WHITE SKIP
T4	3 FT.-9 FT./SP WHITE MINISKIP
T10	YELLOW EDGE LINE
THERMOPLASTIC(8", 90 MILS)	
T42	YELLOW DIAGONAL
T46	WHITE CROSSWALK LINE
THERMOPLASTIC(24", 90 MILS)	
T61	WHITE STOPBAR
T62	WHITE CROSSWALK LINE
THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)	
T70	LEFT TURN ARROW
T71	RIGHT TURN ARROW
T72	STRAIGHT ARROW
T74	COMBO. RIGHT/STRAIGHT ARROW
T103	24" YIELD LINE TRIANGLE

PLANS PREPARED BY: Ramey Kemp Associates

W. JASON HAMILTON, PE, PTOE PROJECT MANAGER
JOSHUA A. WENDT, E.I. PROJECT ENGINEER



TOWN OF CHAPEL HILL
CONSTRUCTION PLAN APPROVAL

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ENGINEERING SIGNATURE:
DATE:

RKA

RAMEY KEMP ASSOCIATES

5808 Faringdon Place
Raleigh, North Carolina 27609
Phone: 919-872-5115

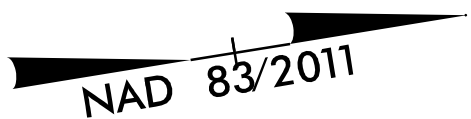
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21370	PMP - 2
APPROVED: <div>DocuSigned by: William J. Hamilton 109690704648484...</div>	
DATE: 10/6/2022	
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<div>North Carolina Professional Seal 32396 Engineer William J. Hamilton</div>	
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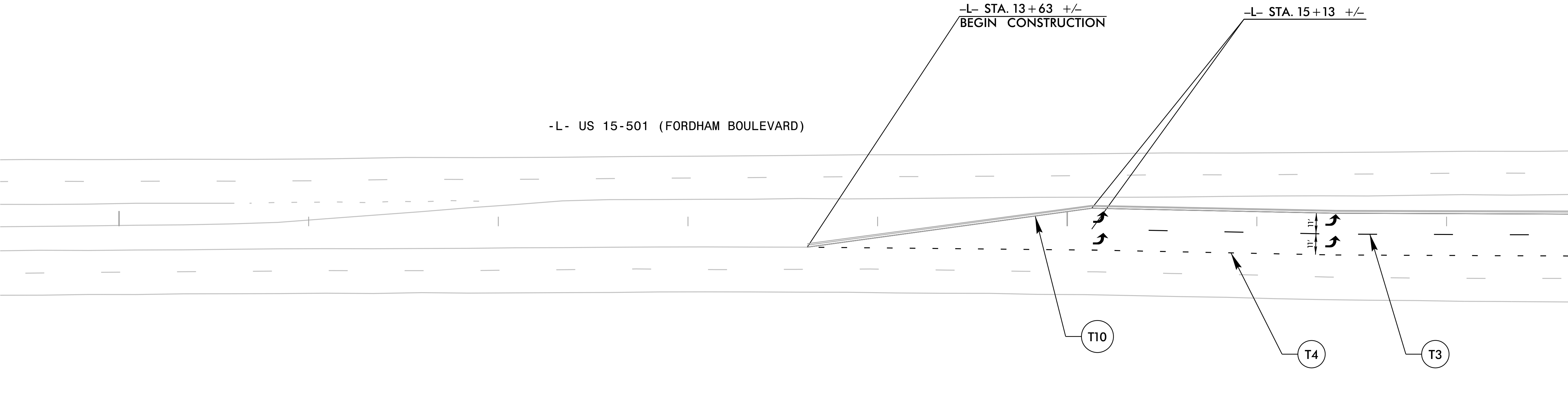
SYMBOL LEGEND

T70

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MATCHLINE -L- STA. 17+65
SEE SHEET PMP-3

TOWN OF CHAPEL HILL
CONSTRUCTION PLAN APPROVAL

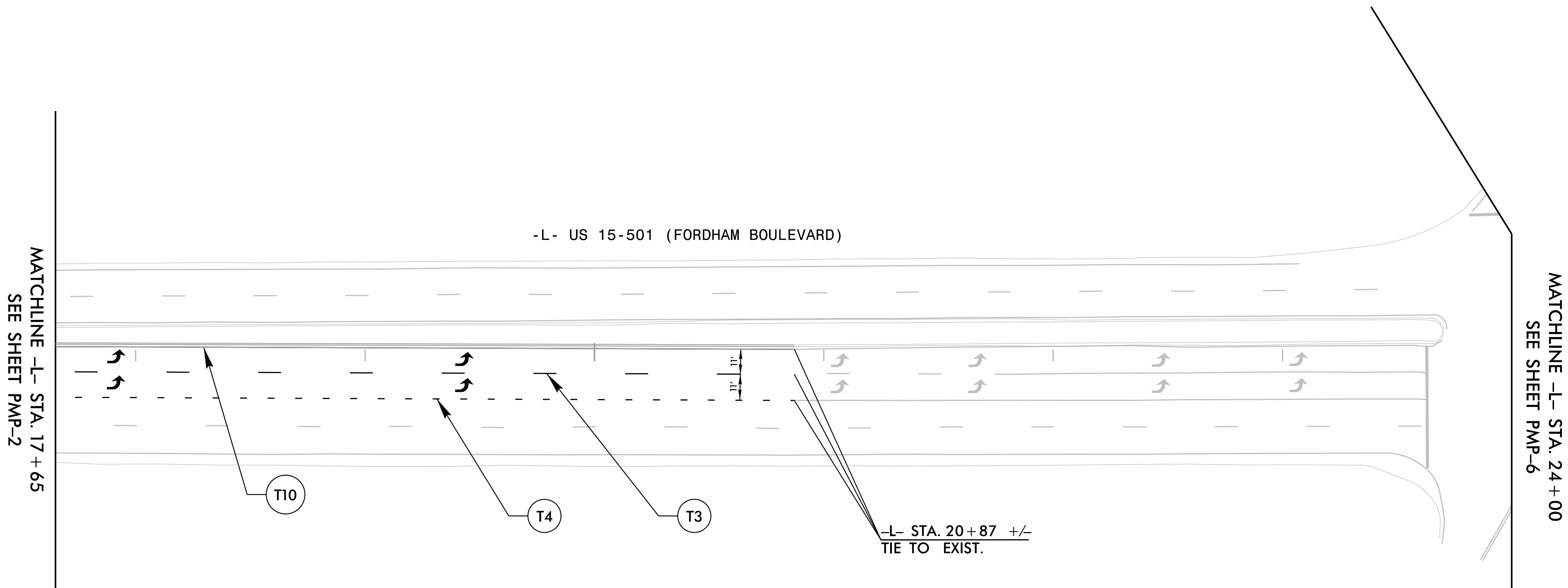
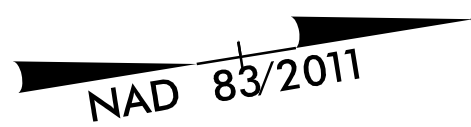
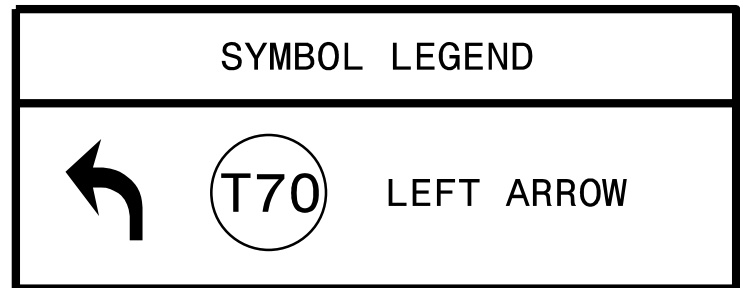
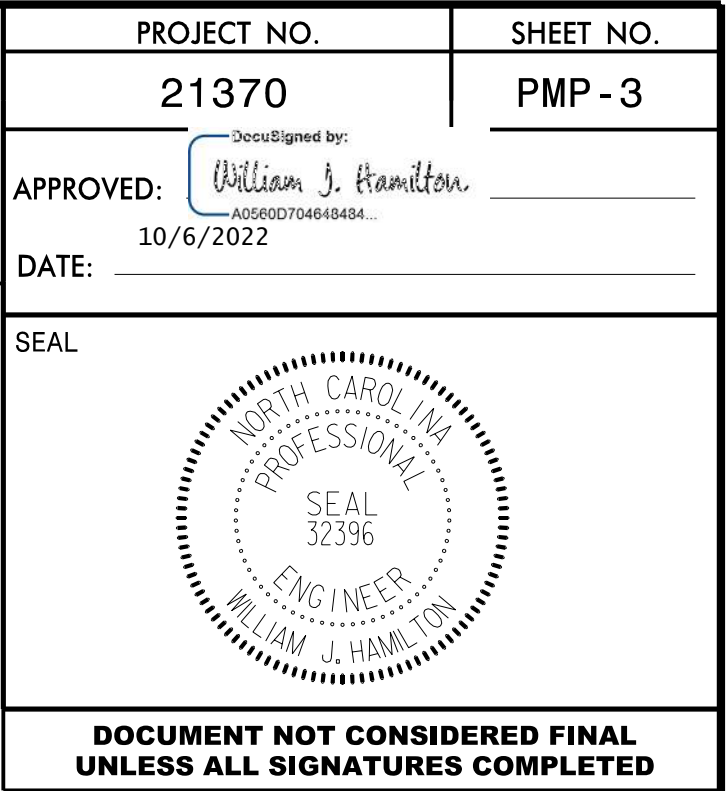
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ENGINEERING SIGNATURE:
DATE:

PAVEMENT MARKING DETAIL

10/6/2022, 10:13:07 AM
User: SMC@ch-ty



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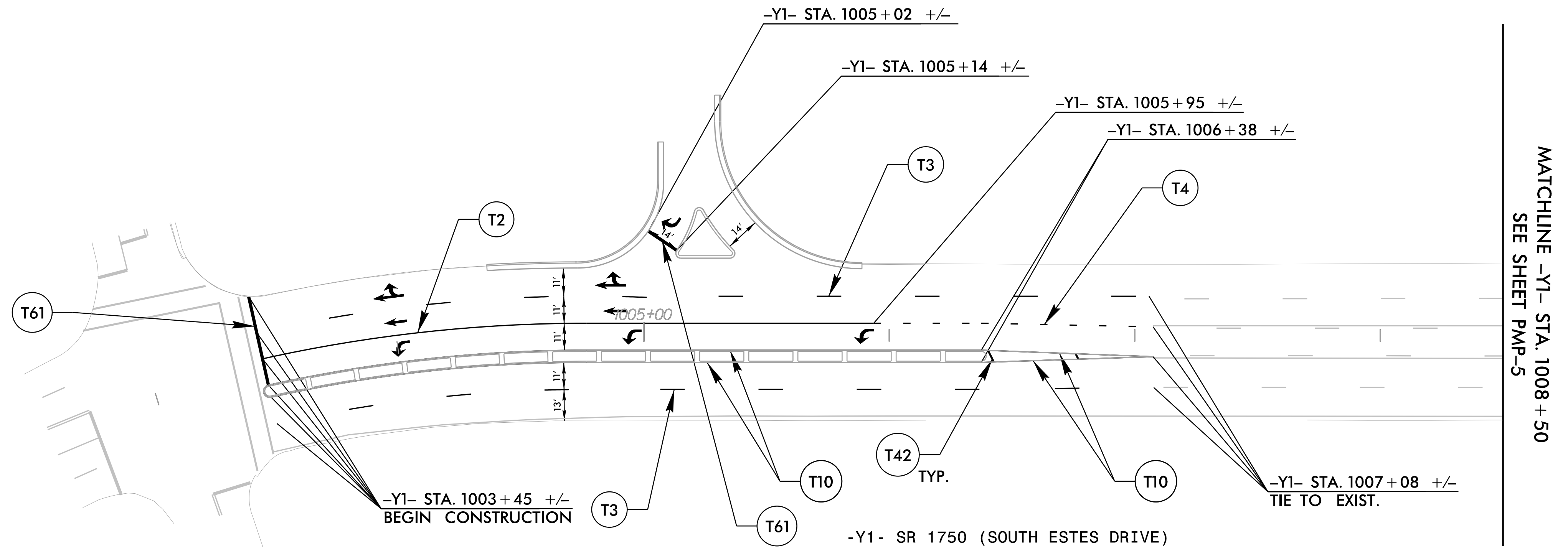
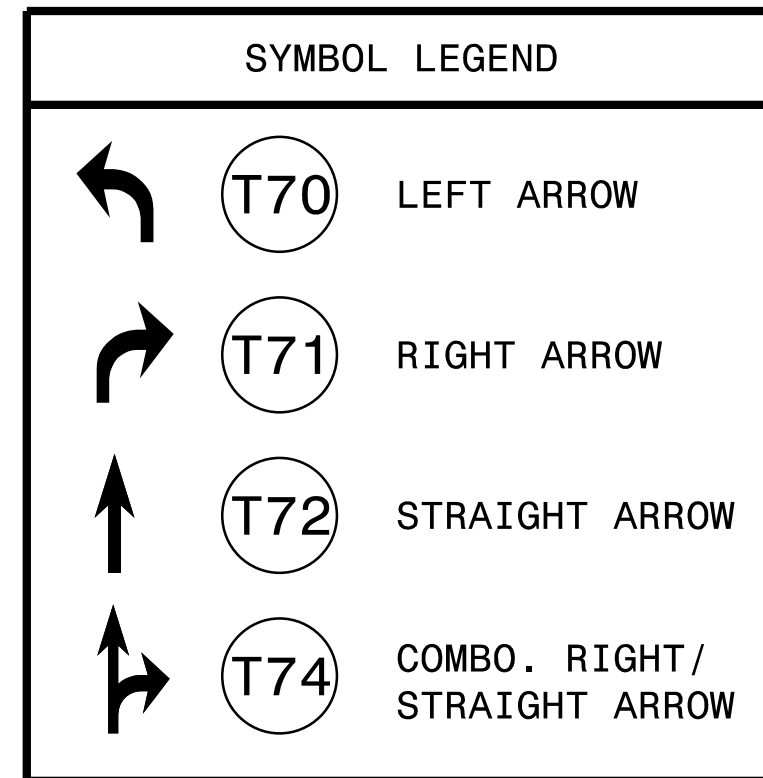
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PAVEMENT MARKING DETAIL

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User: SMcCarthy



PROJECT NO. 21370	SHEET NO. PMP - 4
Date Signed by: APPROVED: <u>William J. Hamilton</u> <small>00007734645804</small>	
DATE: <u>10/6/2022</u>	
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**MATCHLINE -Y1- STA. 1008+50
SEE SHEET PMP-5**

**TOWN OF CHAPEL HILL
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RKA

RAMEY KEMP ASSOCIATES

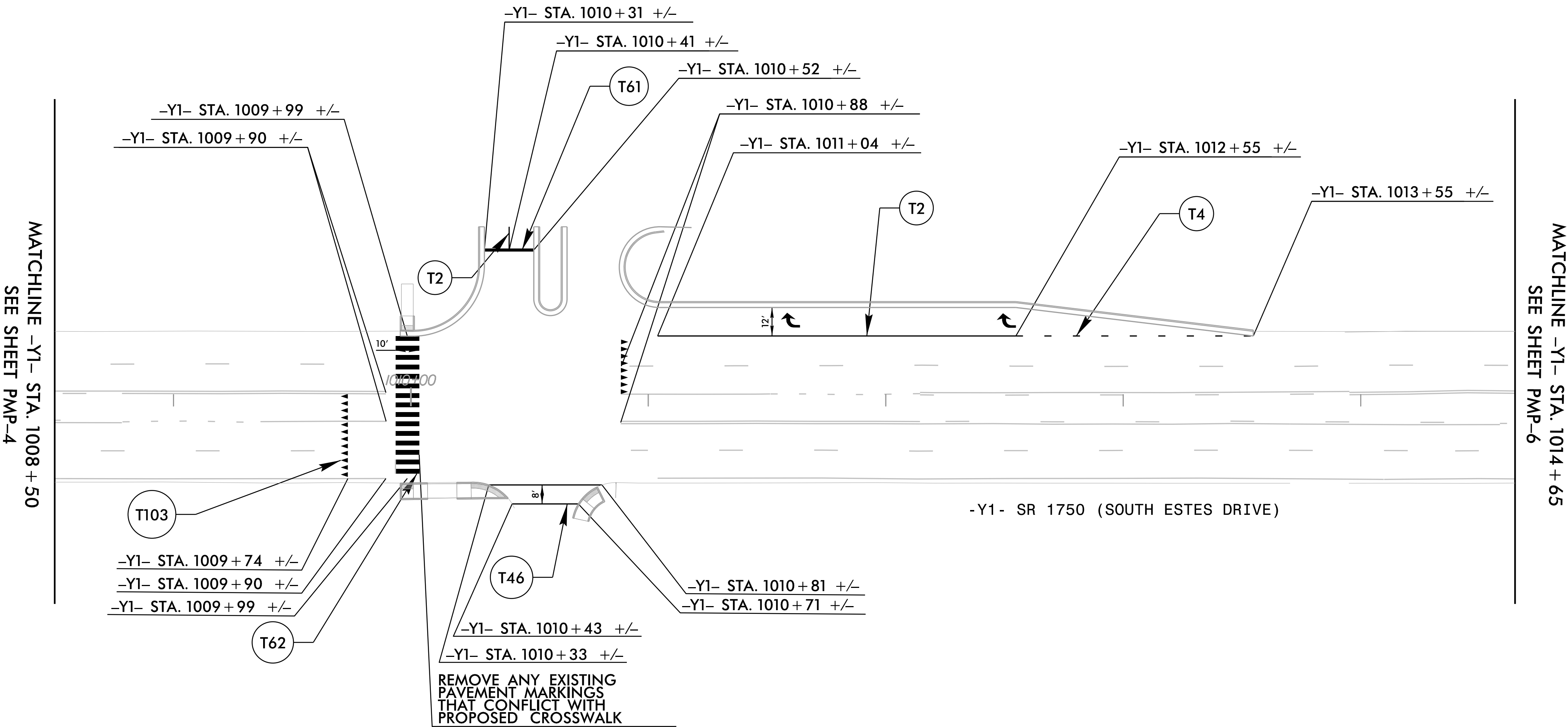
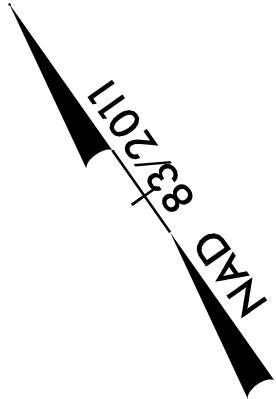
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APPROVED: <div>DecoSigned by: William J. Hamilton -329603704648484...</div>	
DATE: 10/6/2022	
SEAL	<div><div>NORTH CAROLINA PROFESSIONAL SEAL 32396 ENGINEER WILLIAM J. HAMILTON</div></div>
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SYMBOL LEGEND

T71 RIGHT ARROW



TOWN OF CHAPEL HILL
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ENGINEERING SIGNATURE:
DATE:

PAVEMENT MARKING DETAIL

10/6/2022 10:21:37 AM T:\C:\pmp05.dgn
User: SMECarthy

RKA

RAMEY KEMP ASSOCIATES

5808 Faringdon Place
Raleigh, North Carolina 27609
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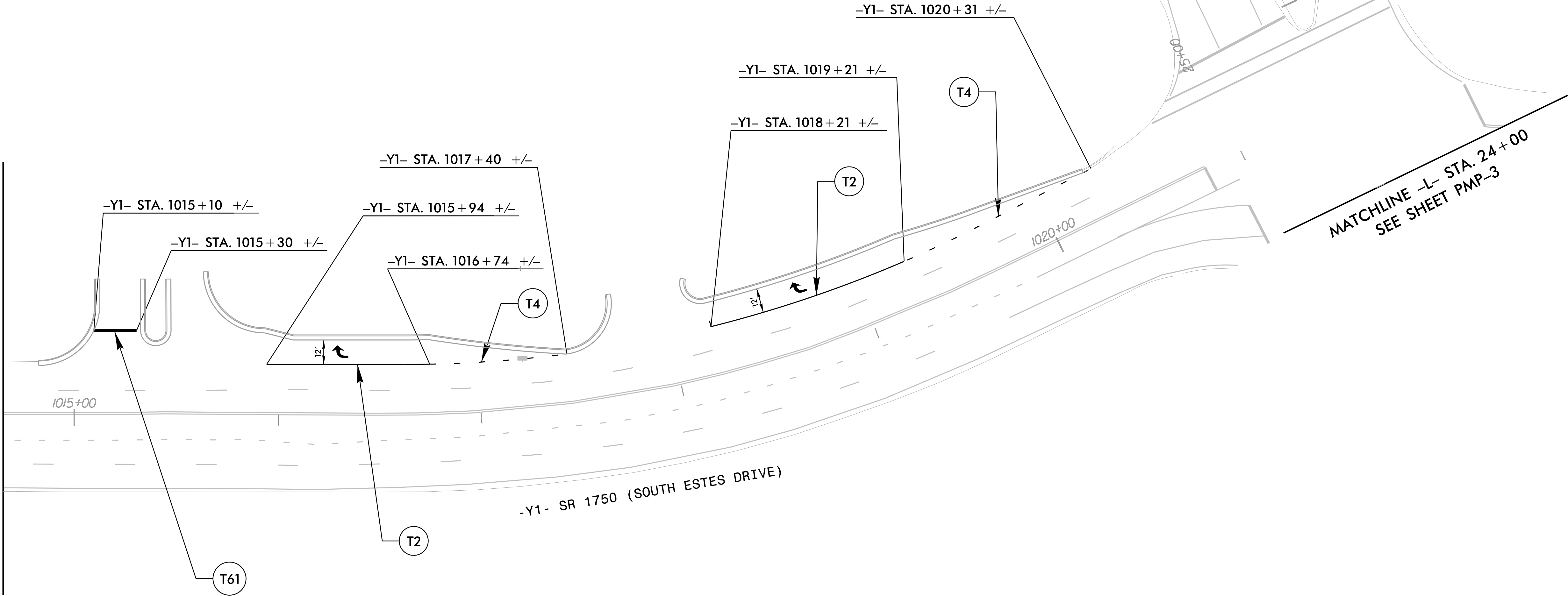
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21370	PMP - 6
APPROVED: <div>DocuSigned by: William J. Hamilton 30969370464848...</div>	
DATE: 10/6/2022	
SEAL	
<div>North Carolina Professional Seal 32396 Engineer William J. Hamilton</div>	
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SYMBOL LEGEND

T71

RIGHT ARROW

MATCHLINE -Y1- STA. 1014 + 65
SEE SHEET PMP-5



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ENGINEERING SIGNATURE:
DATE:

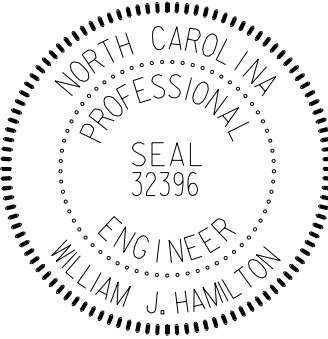
PAVEMENT MARKING DETAIL

10/6/2022
\\s:\21370\T.C.pmp\06.dgn
User: SMC@car-thy

PROJECT: UNIVERSITY PLACE OFFSITE ROADWAY

SIGNING PLAN ORANGE COUNTY

LOCATION: US 15-501 (FORDHAM BOULEVARD) AT SR 1750 (S. ESTES DRIVE)

PROJECT NO.	SHEET NO.
21370	SIGN - 1
APPROVED: <div>DocuSigned by: William J. Hamilton a556d27046165d4...</div>	
DATE: 10/6/2022	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

GENERAL NOTES

- . SIGNS FURNISHED BY CONTRACTOR
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
903.10	GROUND MOUNTED SIGN SUPPORTS
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

PROJECT NOTES

1. RETAIN SIGN ASSEMBLY, TYPE E
2. RELOCATE SIGN ASSEMBLY, TYPE E
3. DISPOSE SIGN ASSEMBLY, TYPE E

INDEX

SHEET NO.	DESCRIPTION
SIGN-1	SIGNING PLAN COVER SHEET
SIGN-2	TYPE "E" SIGNS
SIGN-3-7	SIGNING DETAILS

PLANS PREPARED BY: Ramey Kemp Associates


W. JASON HAMILTON, PE, PTOE	PROJECT MANAGER
JOSHUA A. WENDT, E.I.	PROJECT ENGINEER



TOWN OF CHAPEL HILL CONSTRUCTION PLAN APPROVAL
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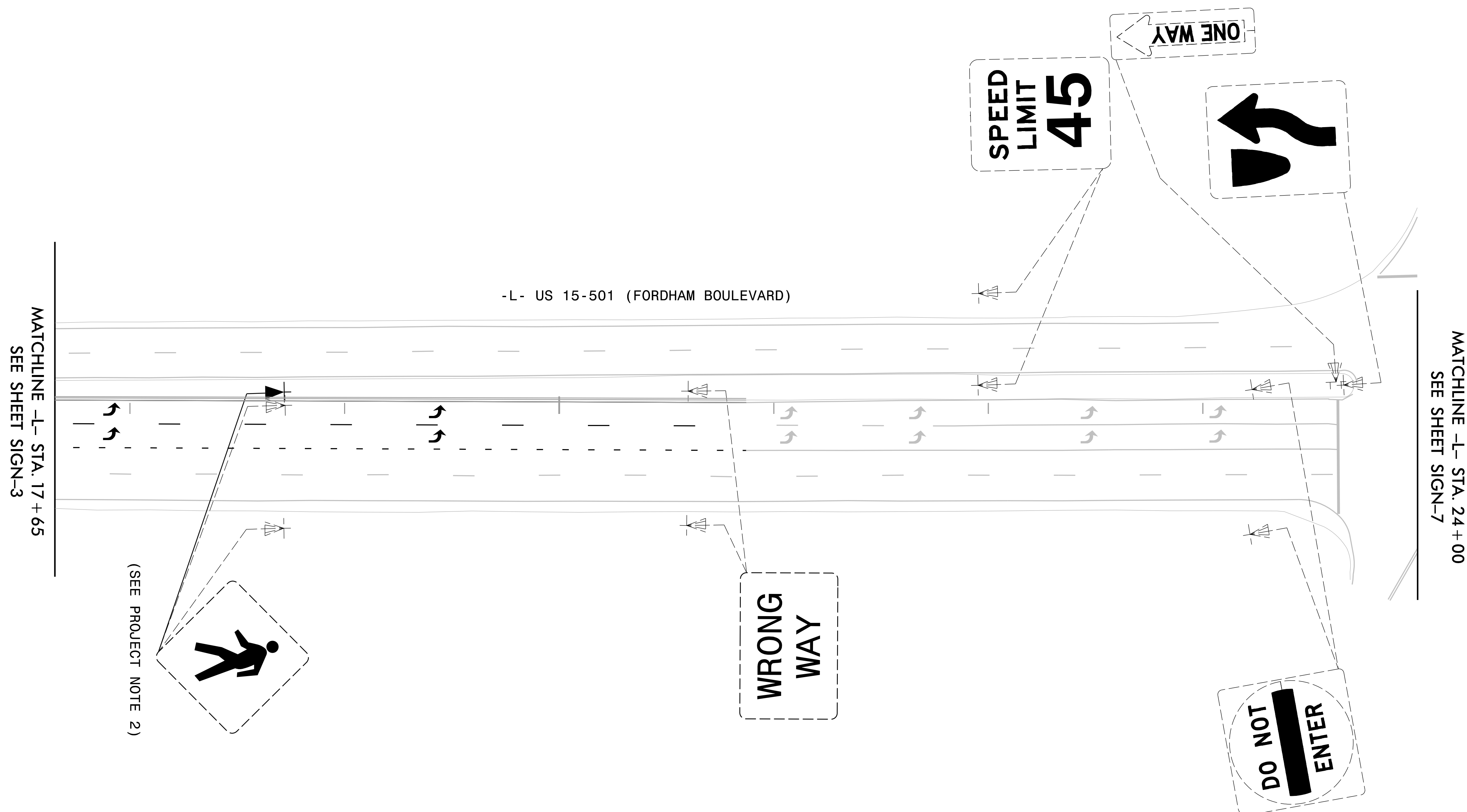
TYPE "E" SIGNS



PROJECT NO.		SHEET NO.	
21370		SIGN-4	
(Not to be signed by: _____) APPROVED: <u>William J. Hamilton</u> _____ <small>—AD00207046/0404—</small> DATE: <u>10/6/2022</u>			
SEAL			
			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

SEE PROJECT NOTE 1 FOR ALL
EXISTING SIGN SYSTEMS THIS
SHEET UNLESS OTHERWISE NOTED

NAD 83/2011



WRONG WAY

(SEE PROJECT NOTE 2)

MATCHLINE -L- STA. 17 + 65
SEE SHEET SIGN-3

MATCHLINE -L- STA. 24+00
SEE SHEET SIGN-7

TOWN OF CHAPEL HILL
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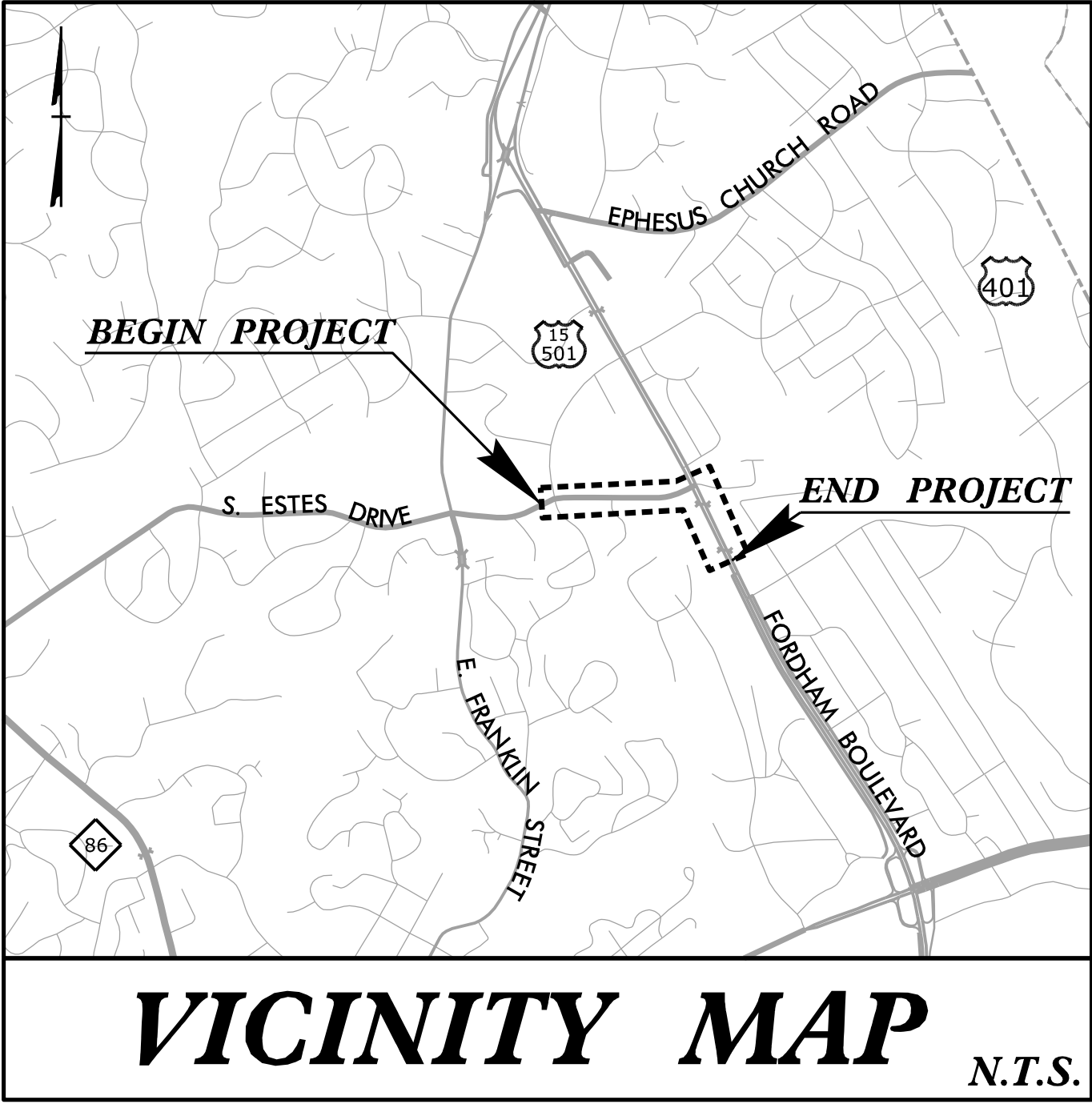
DATE:

SIGNING DETAIL

09/08/2022

10/6/2022
\\21310-01-EC-tsh.dgn
User: SMCCarthy

PROJECT: UNIVERSITY PLACE OFFSITE ROADWAY



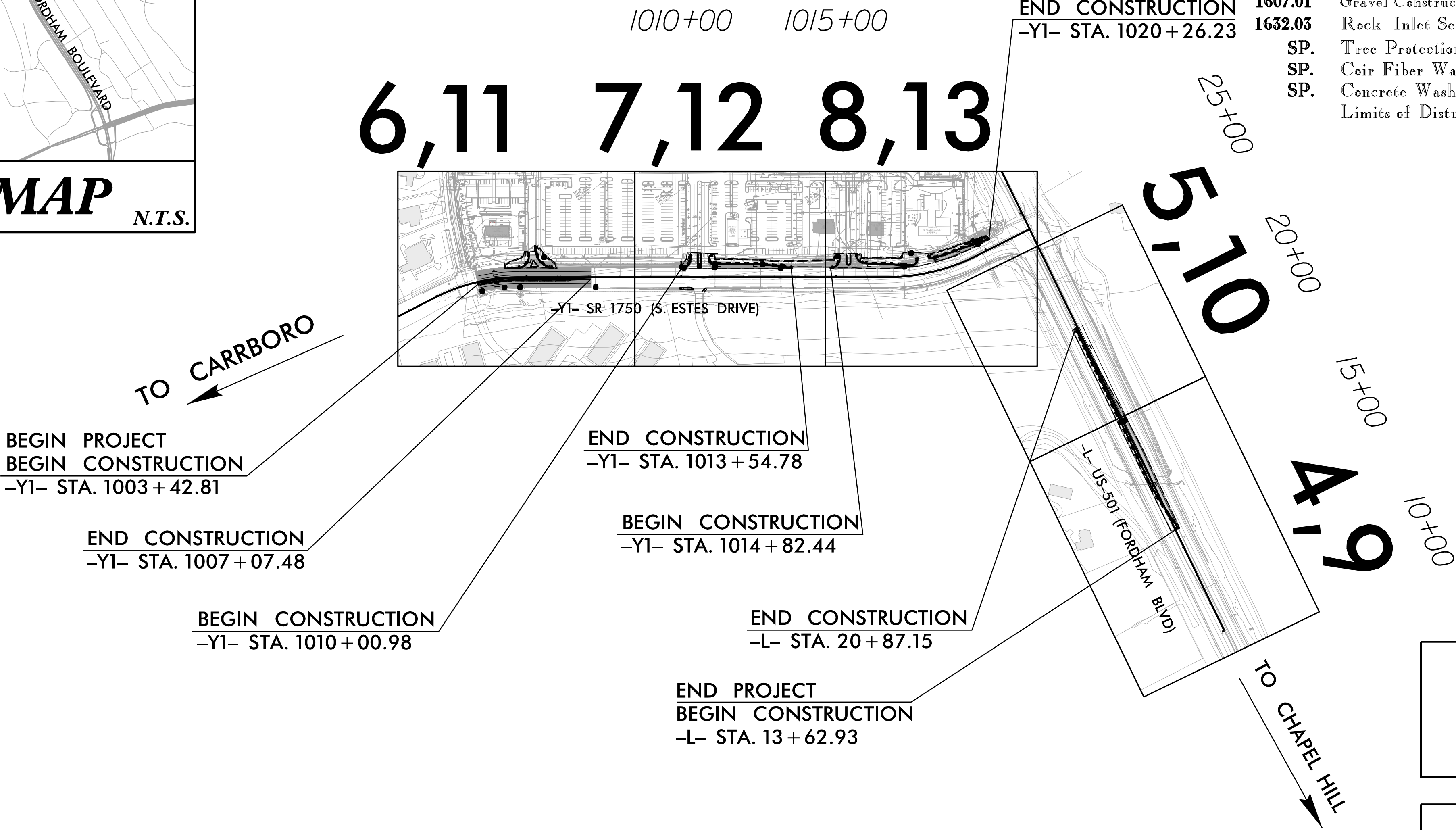
ORANGE COUNTY

LOCATION: US 15-501 (FORDHAM BOULEVARD) AT SR 1750 (S. ESTES DRIVE)

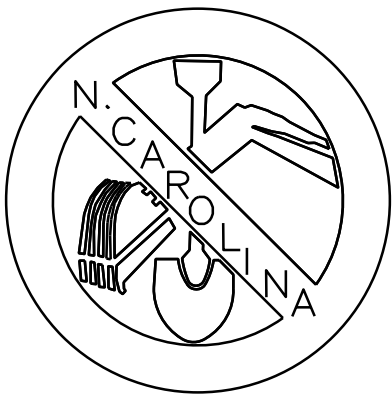
TYPE OF WORK: EROSION CONTROL

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	▲▲▲▲▲▲▲▲
1607.01	Gravel Construction Entrance	▲
1632.03	Rock Inlet Sediment Trap Type-C	□
SP.	Tree Protection Fence	TPF
SP.	Coir Fiber Wattle	CFW
SP.	Concrete Washout	□
	Limits of Disturbance	LOD



BEFORE YOU DIG:
1-800-632-4949



RECEIVING WATERS:
HAW RIVER (JORDAN LAKE)
CLASS: WS-V;NSW

CAPE FEAR RIVER BASIN

DISTURBED AREA = 1.15 AC.

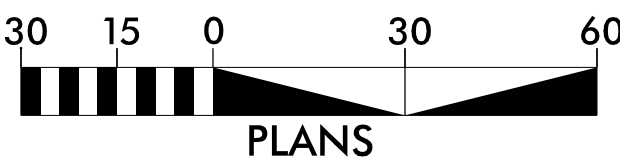
THIS PROJECT HAS
BEEN DESIGNED TO
SENSITIVE WATERSHED
STANDARDS.

ENVIRONMENTALLY
SENSITIVE AREA(S) EXIST
ON THIS PROJECT

Refer To E.C. Special Provisions
for Special Considerations.

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II

GRAPHIC SCALES



DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

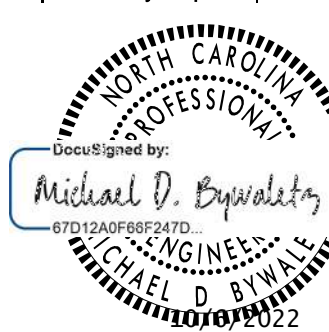
THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY
WITH THE REGULATIONS SET FORTH BY THE
NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011
ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND
NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared in the Office of:

RKA
RAMEY KEMP ASSOCIATES
5808 Faringdon Place Raleigh, North Carolina 27609
Phone: 919-872-5115 | www.rameykemp.com | NC License No. C-0910

Designed by:
SEAN V. MCCARTHY

Reviewed by:
MICHAEL D. BYWALETZ, P.E.
NAME



LEVEL III CERTIFICATION NO. 3876

TOWN OF CHAPEL HILL
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DATE: _____

8/17/99

REVISIONS

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes		
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none">Temporary grass seed covered with straw or other mulches and tackifiersHydroseedingRolled erosion control products with or without temporary grass seedAppropriately applied straw or other mulchPlastic sheeting	<ul style="list-style-type: none">Permanent grass seed covered with straw or other mulches and tackifiersGeotextile fabrics such as permanent soil reinforcement mattingHydroseedingShrubs or other permanent plantings covered with mulchUniform and evenly distributed ground cover sufficient to restrain erosionStructural methods such as concrete, asphalt or retaining wallsRolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
- Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
- Provide ponding area for containment of treated Stormwater before discharging offsite.
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

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

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

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

PAINT AND OTHER LIQUID WASTE

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

PORTABLE TOILETS

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

EARTHEN STOCKPILE MANAGEMENT

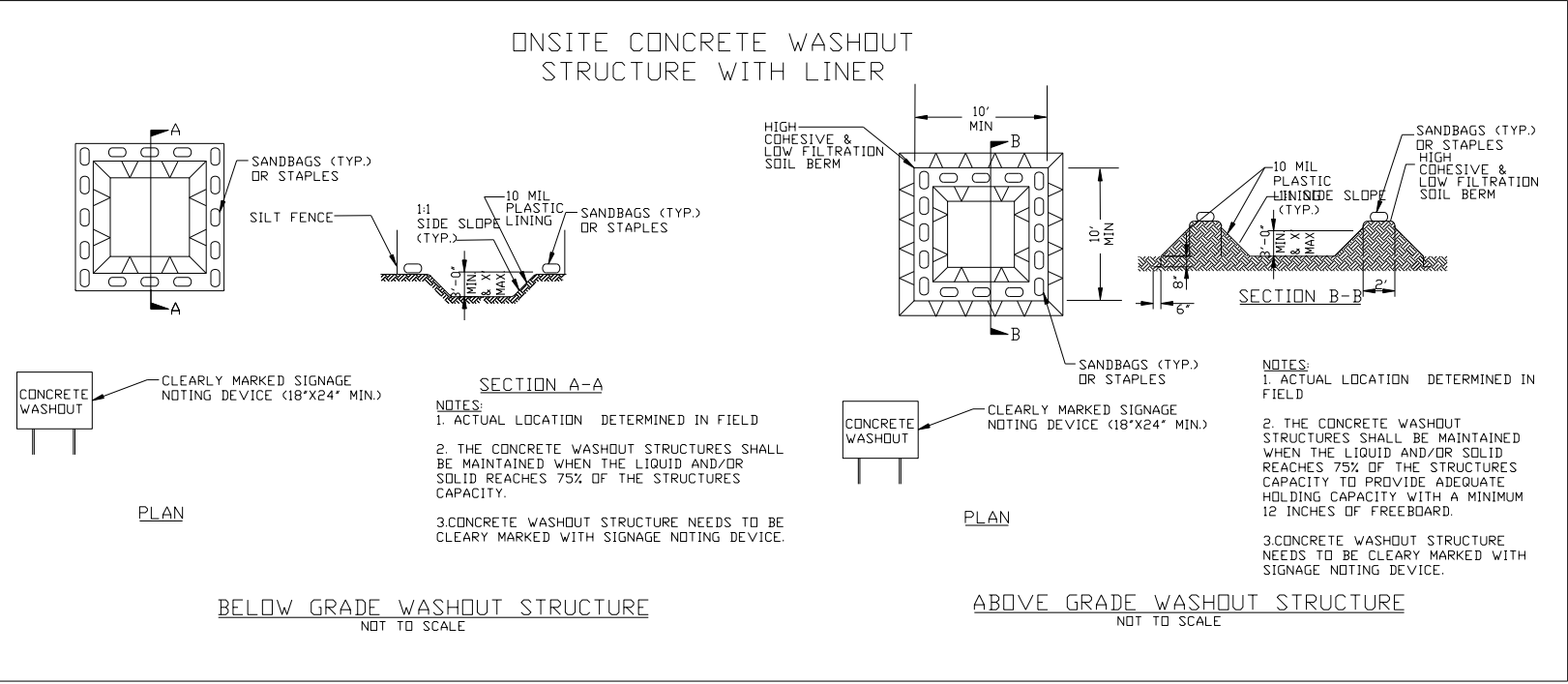
- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- Protect stockpile with silt fence installed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

HAZARDOUS AND TOXIC WASTE

- Create designated hazardous waste collection areas on-site.
- Place hazardous waste containers under cover or in secondary containment.
- Do not store hazardous chemicals, drums or bagged materials directly on the ground.

HERBICIDES, PESTICIDES AND RODENTICIDES

- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
- Do not stockpile these materials onsite.



CONCRETE WASHOUTS

- Do not discharge concrete or cement slurry from the site.
- Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
- Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
- Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
- Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
- Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

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DATE:



PROJECT REFERENCE NO.	SHEET NO.
21370	EC-2A
RW SHEET NO.	
MICHAEL D. BYWALETZ, P.E.	
LEVEL III NAME	
3876	LEVEL III CERTIFICATION NO.
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

8/17/99

REVISIONS

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART II, SECTION G, ITEM (4)
DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- (a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
- (b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,
- (c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
- (d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
- (e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
- (f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- (a) This General Permit as well as the Certificate of Coverage, after it is received.

- (b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

- (a) Visible sediment deposition in a stream or wetland.
- (b) Oil spills if:
- They are 25 gallons or more,
 - They are less than 25 gallons but cannot be cleaned up within 24 hours,
 - They cause sheen on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume).
- (c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- (d) Anticipated bypasses and unanticipated bypasses.

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

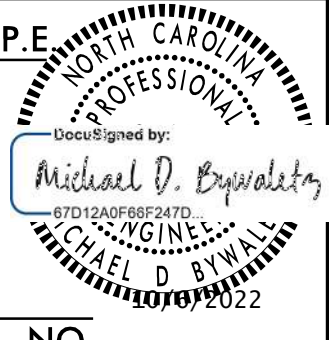
2. Reporting Timeframes and Other Requirements

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

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none">Within 24 hours, an oral or electronic notification.Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis.If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	<ul style="list-style-type: none">Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none">A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none">Within 24 hours, an oral or electronic notification.Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(l)(7)]	<ul style="list-style-type: none">Within 24 hours, an oral or electronic notification.Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6).Division staff may waive the requirement for a written report on a case-by-case basis.



PROJECT REFERENCE NO.	SHEET NO.
21370	EC-2B
RW SHEET NO.	
MICHAEL D. BYWALETZ, P.E. LEVEL III NAME	
3876 LEVEL III CERTIFICATION NO.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



TOWN OF CHAPEL HILL
CONSTRUCTION PLAN APPROVAL

ALL CONSTRUCTION METHODS AND MATERIALS SHALL BE IN ACCORDANCE WITH THE TOWN OF CHAPEL HILL, ORANGE WATER AND SEWER AUTHORITY (OWASA), AND NCDOT STANDARDS AND SPECIFICATIONS. IN THE EVENT OF A CONFLICT BETWEEN STANDARDS, THE MORE STRINGENT SHALL GOVERN UNLESS A WAIVER IS ISSUED BY THE TOWN ENGINEER AND/OR AUTHORITY HAVING JURISDICTION (AHJ). UTILITY INSTALLATIONS AND OTHER PUBLIC FACILITIES, INCLUDING STREETS, SIDEWALKS, STORMWATER AND HANDICAP RAMPS, HAVE BEEN APPROVED BY THE TOWN OF CHAPEL HILL AND SHALL BE SO INSTALLED UNLESS A CHANGE IS AUTHORIZED BY PRIOR WRITTEN APPROVAL. PUBLIC WATERS/SANITARY SEWER, STORMWATER AND UTILITY EASEMENTS SHALL BE RECORDED PRIOR TO FINAL ACCEPTANCE AND/OR ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE TOWN.

THE TOWN OF CHAPEL HILL MAY REQUIRE REDESIGN AND/OR RECONSTRUCTION OF WORK SHOWN ON THE APPROVED PLANS, SUBSEQUENT TO SUCH APPROVAL, IF IT BECOMES EVIDENT THAT THE DESIGN IS INADEQUATE TO MEET THE ACTUAL FIELD CONDITIONS AND/OR IS BASED ON INCOMPLETE, INSUFFICIENT, INACCURATE OR MISLEADING DATA PORTRAYED ON THE APPROVED PLANS. THE TOWN OF CHAPEL HILL ACCEPTS NO RESPONSIBILITY FOR COSTS INVOLVED IN SUCH REDESIGN AND/OR RECONSTRUCTION.

ENGINEERING SIGNATURE:
DATE:

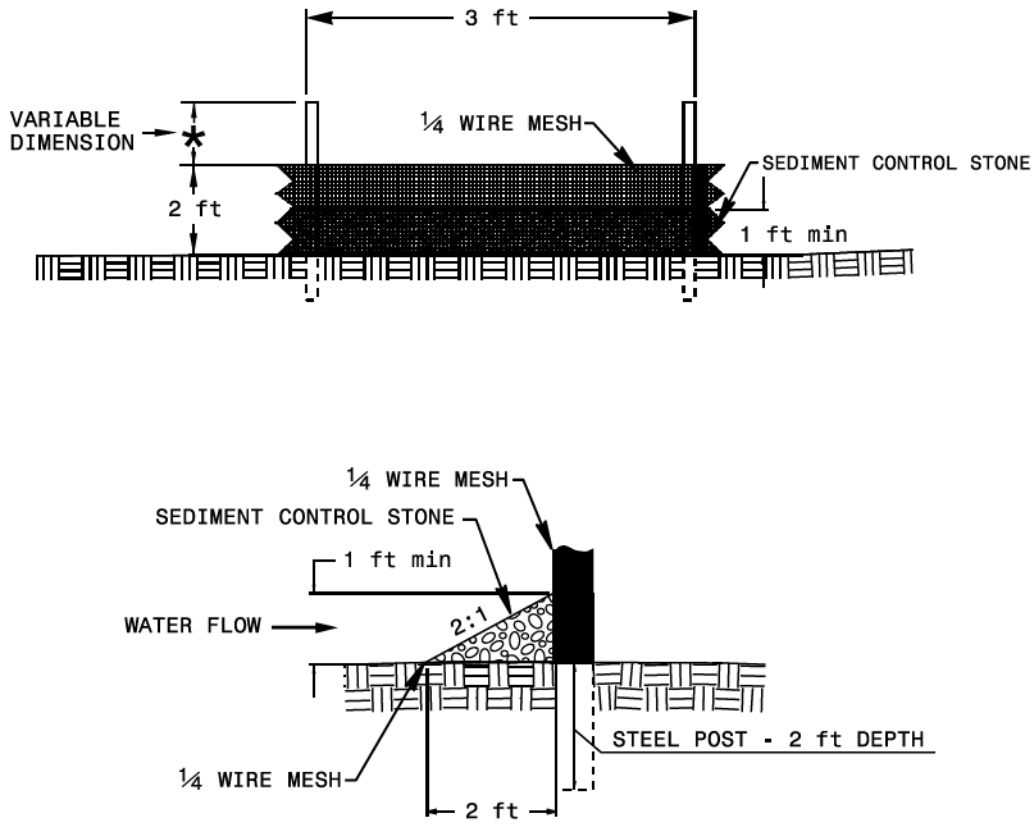
8/17/99

REVISIONS

NOTES

- USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL STONE.
- USE HARDWARE CLOTH 24 GAUGE WIRE MESH WITH 1/4 INCH MESH OPENINGS.
- INSTALL 5 FT. SELF FASTENER ANGLE STEEL POST 2 FT. DEEP MINIMUM.
- ATTACH HARDWARE CLOTH TO POSTS WITH WIRE STAPLE OR OTHER ACCEPTABLE METHODS.
- SPACE POSTS A MAXIMUM OF 3 FT.

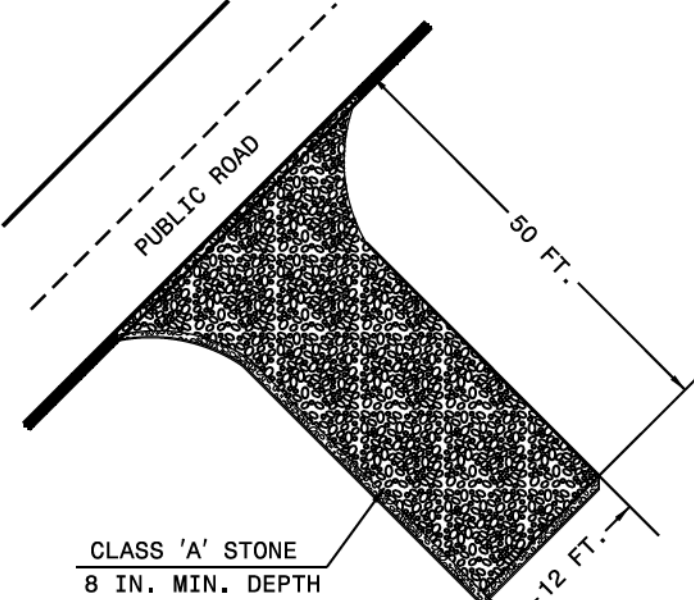
FOR INSTALLATION BETWEEN SECTIONS OF SILT FENCE, EXTEND SEDIMENT CONTROL STONE A MINIMUM OF 12" ON EACH SIDE OF SPECIAL SEDIMENT CONTROL FENCE SECTION.



STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
HALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
SPECIAL SEDIMENT CONTROL FENCE

SHEET 1 OF 1
1606.01



NOTES

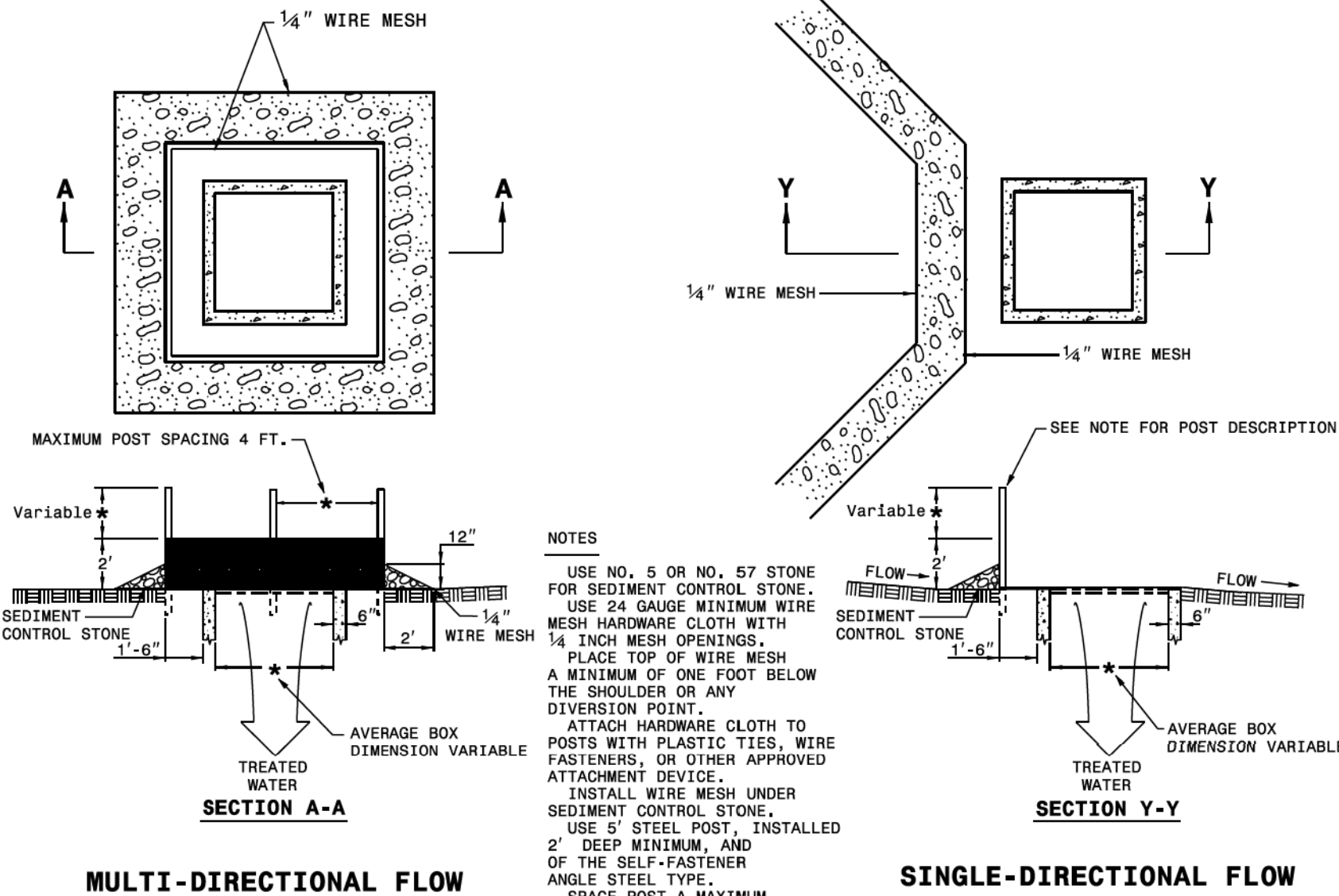
1. PROVIDE TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS.
2. LOCATE ENTRANCES TO PROVIDE FOR UTILIZATION BY ALL CONSTRUCTION VEHICLES.
3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL BE NECESSARY.
4. ANY MATERIAL TRACKED ONTO THE ROADWAY MUST BE CLEANED UP IMMEDIATELY.
5. LOCATE GRAVEL CONSTRUCTION ENTRANCE AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED. PROVIDE FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE.
6. NUMBER AND LOCATION OF CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE ENGINEER.
7. USE CLASS 'A' STONE OR OTHER COARSE AGGREGATE APPROVED BY THE ENGINEER.
8. INSTALL CONSTRUCTION ENTRANCES IN A WAY TO PREVENT VEHICLES FROM BYPASSING CONSTRUCTION ENTRANCE LEAVING PROJECT SITE.

NOTE: PLACE GEOTEXTILE FOR DRAINAGE BENEATH STONE

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
HALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
GRAVEL CONSTRUCTION ENTRANCE

SHEET 1 OF 1
1607.01



STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
HALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
ROCK INLET SEDIMENT TRAP TYPE C

SHEET 1 OF 1
1632.03

MAINTENANCE NOTES

SPECIAL SEDIMENT CONTROL FENCE

INSPECT THE DEVICE PERIODICALLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT FOR DAMAGE AND SEDIMENT ACCUMULATION TO CONFIRM THE DEVICE IS FUNCTIONING PROPERLY. AT A MINIMUM, REMOVE SEDIMENT FROM THE DEVICE WHEN ACCUMULATIONS REACH ONE-HALF THE HEIGHT OF THE SEDIMENT CONTROL STONE. REPLACE OR CLEAN THE SEDIMENT CONTROL STONE AS NEEDED TO ALLOW WATER TO DRAIN THROUGH THE DEVICE BETWEEN RAINFALL EVENTS. REBUILD AND/OR REPAIR THE DEVICE WHEN IT IS DAMAGED. REPAIR AREAS WHERE SSCF BECOMES UNDERMINED DUE TO CONCENTRATED FLOWS.

CONSTRUCTION ENTRANCE

THE GRAVEL CONSTRUCTION ENTRANCE MUST BE MAINTAINED IN A CONDITION TO PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO ADJACENT ROADWAYS. REPLACEMENT OF STONE MAY BE NECESSARY TO ENSURE THE GRAVEL ENTRANCE FUNCTIONS PROPERLY. REPLENISHMENT OF STONE MAY BE NECESSARY. FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE SHOULD BE COMPLETED. ANY MATERIAL TRACKED ONTO THE ROADWAY SHALL BE CLEANED UP IMMEDIATELY.

ROCK INLET SEDIMENT TRAP TYPE C

INSPECT THE DEVICE AFTER EACH SIGNIFICANT RAINFALL EVENT FOR DAMAGE, SEDIMENT ACCUMULATION AND PROPER FUNCTION. REMOVE SEDIMENT FROM THE DEVICE WHEN ACCUMULATIONS REACH ONE-HALF THE HEIGHT OF THE SEDIMENT CONTROL STONE. REPLACE OR CLEAN THE SEDIMENT CONTROL STONE AS NEEDED TO ALLOW WATER TO DRAIN THROUGH THE DEVICE BETWEEN RAINFALL EVENTS. REBUILD AND/OR REPAIR THE DEVICE WHEN IT IS DAMAGED. IF THE DEVICE IS TO REMAIN AFTER PROJECT COMPLETION, IT SHOULD BE CLEAN AND IN PROPER SHAPE AT THE TIME OF FINAL INSPECTION. IF IT IS REMOVED, ALL ACCUMULATED SILT SHOULD BE REMOVED TO KEEP IT FROM ENTERING THE DRAINAGE SYSTEM. SEEDED. POSTS OR WIRE BACKING IF FENCE IS SAGGING.

RKA

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PROJECT REFERENCE NO.

21370

SHEET NO.

EC-3B

RW SHEET NO.

MICHAEL D. BYWALETZ, P.E.

LEVEL III NAME

3876

LEVEL III CERTIFICATION NO.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

DESIGNED BY:

Michael D. Bywaletz

Professional Engineer

10/10/2022

TOWN OF CHAPEL HILL
CONSTRUCTION PLAN APPROVAL

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ENGINEERING SIGNATURE:
DATE:

8/17/99

CLEARING AND GRUBBING PHASE

- NOTES:
1. CONTRACTOR TO INSTALL EROSION CONTROL MEASURES BEFORE CONSTRUCTION BEGINS AND MAINTAIN THROUGHOUT CONSTRUCTION. CONTRACTOR IS TO KEEP ALL DEBRIS WITHIN THE WORK AREA AND OUTSIDE OF THE THROUGH LANES.
 2. CONTRACTOR TO COORDINATE WITH ENGINEER IF FIELD CONDITIONS VARY FROM PLANS OR CONFLICTING EROSION CONTROL MEASURES ARE INSTALLED WITH THE ADJACENT SITE CONSTRUCTION.
 - 3.

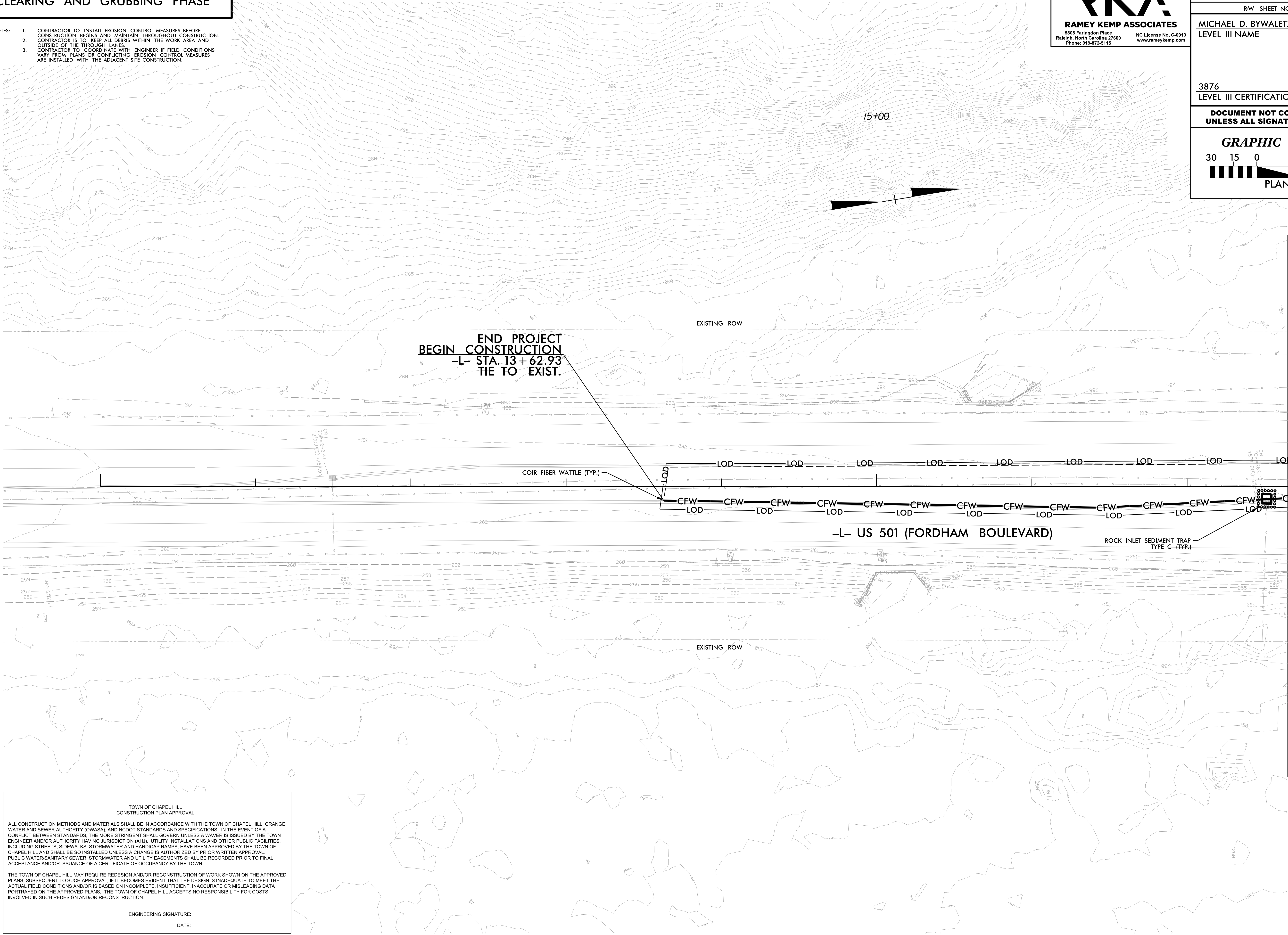
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PROJECT REFERENCE NO.	SHEET NO.
21370	EC-4
RW SHEET NO.	
MICHAEL D. BYWALETZ, P.E. LEVEL III NAME	
<div>North Carolina Professional Engineer Michael D. Bywaletz Professional Engineer Michael D. Bywaletz 10/10/2022</div>	
3876 LEVEL III CERTIFICATION NO.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
<div>GRAPHIC SCALES</div> <div>30 15 0 30 60</div> <div>PLANS</div>	

REVISIONS



TOWN OF CHAPEL HILL
CONSTRUCTION PLAN APPROVAL

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ENGINEERING SIGNATURE:
DATE:

MATCHLINE -L- STA. 17 + 65
SEE EC-5

10/6/2022
21370-01-EC-psh04-CG.dgn
User: SMC@city

8/17/99

CLEARING AND GRUBBING PHASE

- NOTES:
1. CONTRACTOR TO INSTALL EROSION CONTROL MEASURES BEFORE CONSTRUCTION BEGINS AND MAINTAIN THROUGHOUT CONSTRUCTION. CONTRACTOR IS TO KEEP ALL DEBRIS WITHIN THE WORK AREA AND OUTSIDE OF THE THROUGH LANES.
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PROJECT REFERENCE NO.	SHEET NO.
21370	EC-5
RW SHEET NO.	
MICHAEL D. BYWALETZ, P.E.	
LEVEL III NAME	
<div><div>DocuSigned by: Michael D. Bywaletz #7D12A0F6B5F47D MICHAEL D. BYWALETZ 10/10/2022</div></div>	
3876	
LEVEL III CERTIFICATION NO.	
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<div><div>GRAPHIC SCALES</div><div><div>301503060</div><div>PLANS</div></div></div>	

REVISIONS

MATCHLINE -L- STA. 17 + 65.00
SEE EC-4

MATCHLINE -L- STA. 24 + 00.00
SEE EC-8

TOWN OF CHAPEL HILL
CONSTRUCTION PLAN APPROVAL

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ENGINEERING SIGNATURE:
DATE:

10/6/2022
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User: SMCerthy

8/17/99

CLEARING AND GRUBBING PHASE

- NOTES:
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PROJECT REFERENCE NO.	SHEET NO.
21370	EC-6
RW SHEET NO.	
MICHAEL D. BYWALETZ, P.E. LEVEL III NAME	
3876 LEVEL III CERTIFICATION NO.	
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GRAPHIC SCALES PLANS	

REVISIONS

TOWN OF CHAPEL HILL
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ENGINEERING SIGNATURE:
DATE:

MATCHLINE -Y1- STA. 1008 + 50.00
SEE EC-7

10/6/2022
21370-01-EC-ps06-06.dgn
User: SMC@rthy