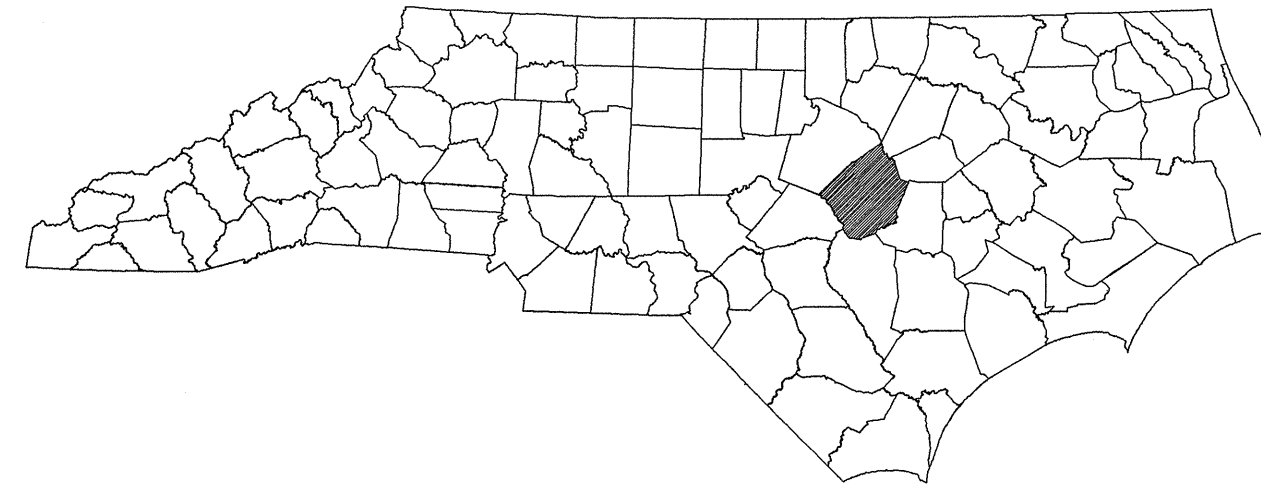


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

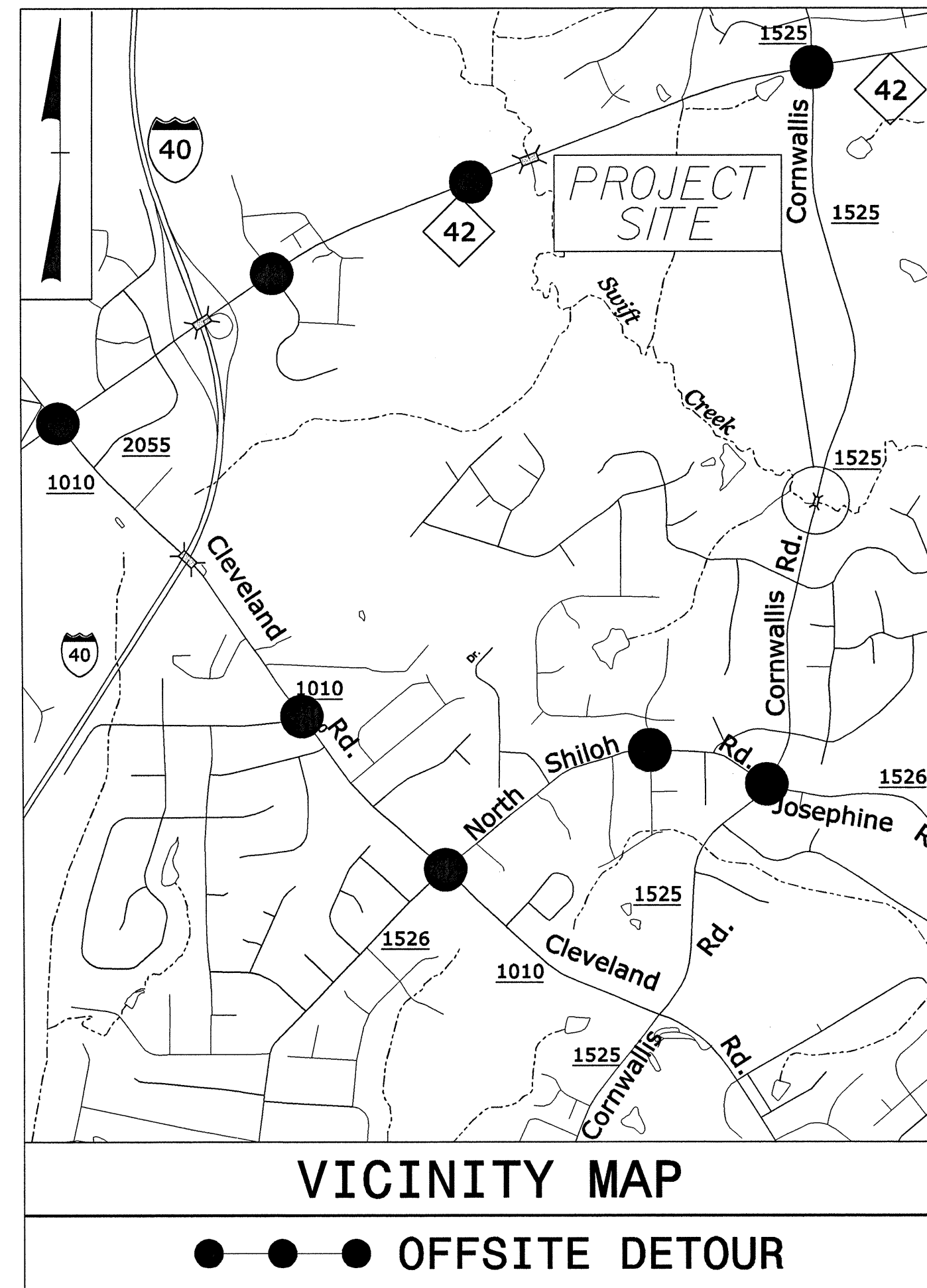
TRANSPORTATION MANAGEMENT PLAN

JOHNSTON COUNTY



LOCATION: BRIDGE NO. 147 OVER SWIFT CREEK ON SR 1525

TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURE



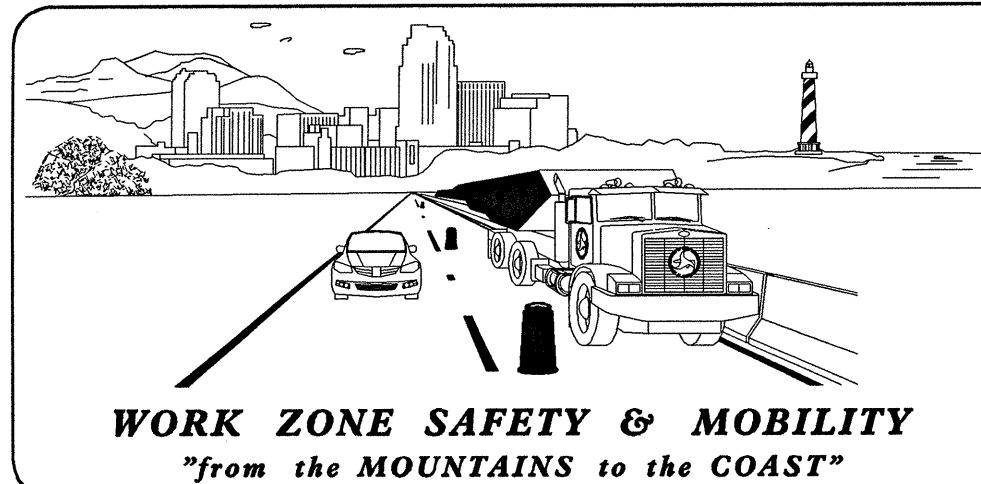
INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS AND LEGEND
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES AND LOCAL NOTES)
TMP-2	OFF-SITE DETOUR
TMP-3	ROAD CLOSURE
TMP-4	SPECIAL SIGN DESIGN

SHEET NO.
TMP-1

B-4561

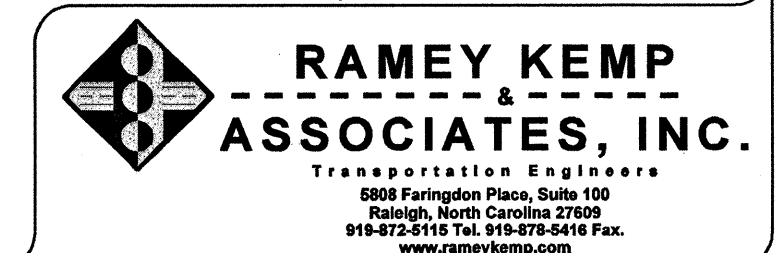
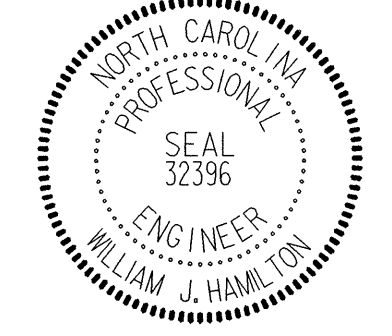
TIP PROJECT:



PLANS PREPARED BY:

W. Jason Hamilton, P.E., PTOE - Project Manager
Nicholas E. Burns, E.I. - Project Engineer

APPROVED: *[Signature]*
DATE: 11/26/12



WORK ZONE TRAFFIC CONTROL UNIT

J. Stuart Bourne, P.E. - State Traffic Management Engineer
Steve Kite, P.E. - Eastern Region Work Zone Traffic Control Engineer
David Bissette, P.E. - Eastern Region Project Design Engineer



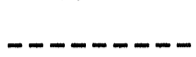
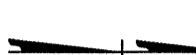

ROADWAY STANDARD DRAWINGS

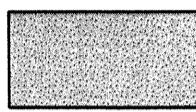

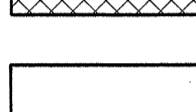
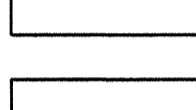
THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES - TYPE III
1150.01	FLAGGING DEVICES
1180.01	SKINNY - DRUM






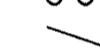
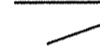

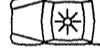


LEGEND

GENERAL




-  DIRECTION OF TRAFFIC FLOW
-  DIRECTION OF PEDESTRIAN TRAFFIC FLOW
-  EXIST. PVMT.
-  NORTH ARROW
-  PROPOSED PVMT.

-  WORK AREA
-  REMOVAL
-  USER DEFINED (IF NEEDED)
-  USER DEFINED (IF NEEDED)




TRAFFIC CONTROL DEVICES

-  BARRICADE (TYPE III)
-  CONE
-  DRUM  SKINNY DRUM  TUBULAR MARKER
-  TEMPORARY CRASH CUSHION
-  FLASHING ARROW BOARD
-  FLAGGER
-  LAW ENFORCEMENT
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

-  PORTABLE SIGN
-  STATIONARY SIGN
-  STATIONARY OR PORTABLE SIGN

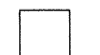

SIGNALS

-  EXISTING
-  PROPOSED
-  TEMPORARY

PAVEMENT MARKINGS

-  EXISTING LINES
-  TEMPORARY LINES

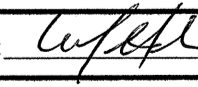


PAVEMENT MARKERS

-  CRYSTAL/CRYSTAL
-  CRYSTAL/RED
-  YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

-  PAVEMENT MARKING SYMBOLS

Prepared in the offices of:
 **RAMEY KEMP & ASSOCIATES, INC.**
 Transportation Engineers
 8800 Farrington Place, Suite 100
 Raleigh, North Carolina 27615
 919-870-5110 Tel. 919-878-8418 Fax.
 www.rameykemp.com

APPROVED:  DATE: 11/28/12	ROADWAY STANDARD DRAWINGS & LEGEND									
	Prepared For:	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">REVISIONS</th> <th style="width: 50%;">CADD FILE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS	CADD FILE						
REVISIONS	CADD FILE									
SCALE: NONE DATE: 11/12 DEVELOPED BY: NEB REVIEWED BY: WJH RKA PROJ. #: 12094										

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 UNDESIRABLE OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

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
SR 1525 CORNWALLIS ROAD	MONDAY THRU FRIDAY 7:00 AM - 8:30 AM AND 4:30 PM - 6:00 PM

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 TRAFFIC CONTROL 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 LANE CLOSURE IN ANY ONE DIRECTION ON SR 1525 CORNWALLIS ROAD.

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) 100 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA. PAVEMENT EDGE DROP OFF REQUIREMENTS

TRAFFIC PATTERN ALTERATIONS

J) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

K) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

L) PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC MANAGEMENT PLANS.

M) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

N) COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

O) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

P) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

MANAGEMENT STRATEGIES

- RELOCATE EXISTING UTILITIES USING LANE CLOSURES
- CLOSE THE ROAD.
- DETOUR THROUGH TRAFFIC OFF SITE.
- MAINTAIN LOCAL TRAFFIC.

LOCAL NOTES

1. NOTIFY JOHNSTON COUNTY EMERGENCY SERVICES (919)-989-5050 AND JOHNSTON COUNTY PUBLIC SCHOOLS (919)-934-8340 AT LEAST ONE MONTH PRIOR TO ROAD CLOSURE.
2. ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED BY THE ENGINEER.
3. MAINTAIN LOCAL TRAFFIC WITHIN ROAD CLOSURE.
4. ENSURE B-4561 CONSTRUCTION PROJECT IS COMPLETE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION PROJECT B-4772.

PHASING

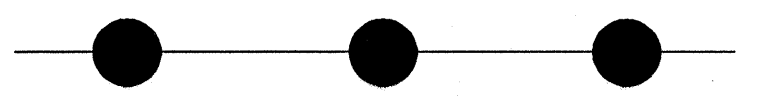
- STEP 1 USING ROADWAY STANDARD DRAWING 1101.02 SHEET 1 OF 15 COMPLETE THE FOLLOWING:
- RELOCATE THE EXISTING 8" WATER LINE AS SHOWN IN THE UTILITY CONSTRUCTION PLANS.
 - RELOCATE THE EXISTING 6" AND 12" SANITARY SEWER LINES AS SHOWN IN THE UTILITY CONSTRUCTION PLANS.
 - CONSTRUCT THE SCHOOL BUS TURNAROUND RIGHT OF -L- STA. 9+40+/- TO STA. 10+00+/-.
- STEP 2 INSTALL OFFSITE DETOUR SIGNING AS SHOWN ON TMP-2. INSTALL SIGNS AND BARRICADES CLOSING SR 1525 (CORNWALLIS RD) TO THROUGH TRAFFIC AS SHOWN ON TMP-2 AND TMP-3 AND IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 1101.03, SHEET 1 OF 9. (SEE LOCAL NOTES 1, 2 AND 3)
- STEP 3 PERFORM THE FOLLOWING WITHIN THE ROAD CLOSURE: (SEE LOCAL NOTE NO. 3)
- REMOVE THE EXISTING STRUCTURE
 - CONSTRUCT THE PROPOSED STRUCTURE
 - CONSTRUCT THE PROPOSED ROADWAY SECTION -L- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE FROM STA. 11+30 TO STA. 15+80.
- STEP 4 PLACE THE FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS FROM STA. 11+30 TO STA. 15+80.
- STEP 5 REMOVE ALL WORK ZONE TRAFFIC CONTROL DEVICES AND OPEN SR 1525 (CORNWALLIS RD) TO THROUGH TRAFFIC.

Prepared in the offices of:

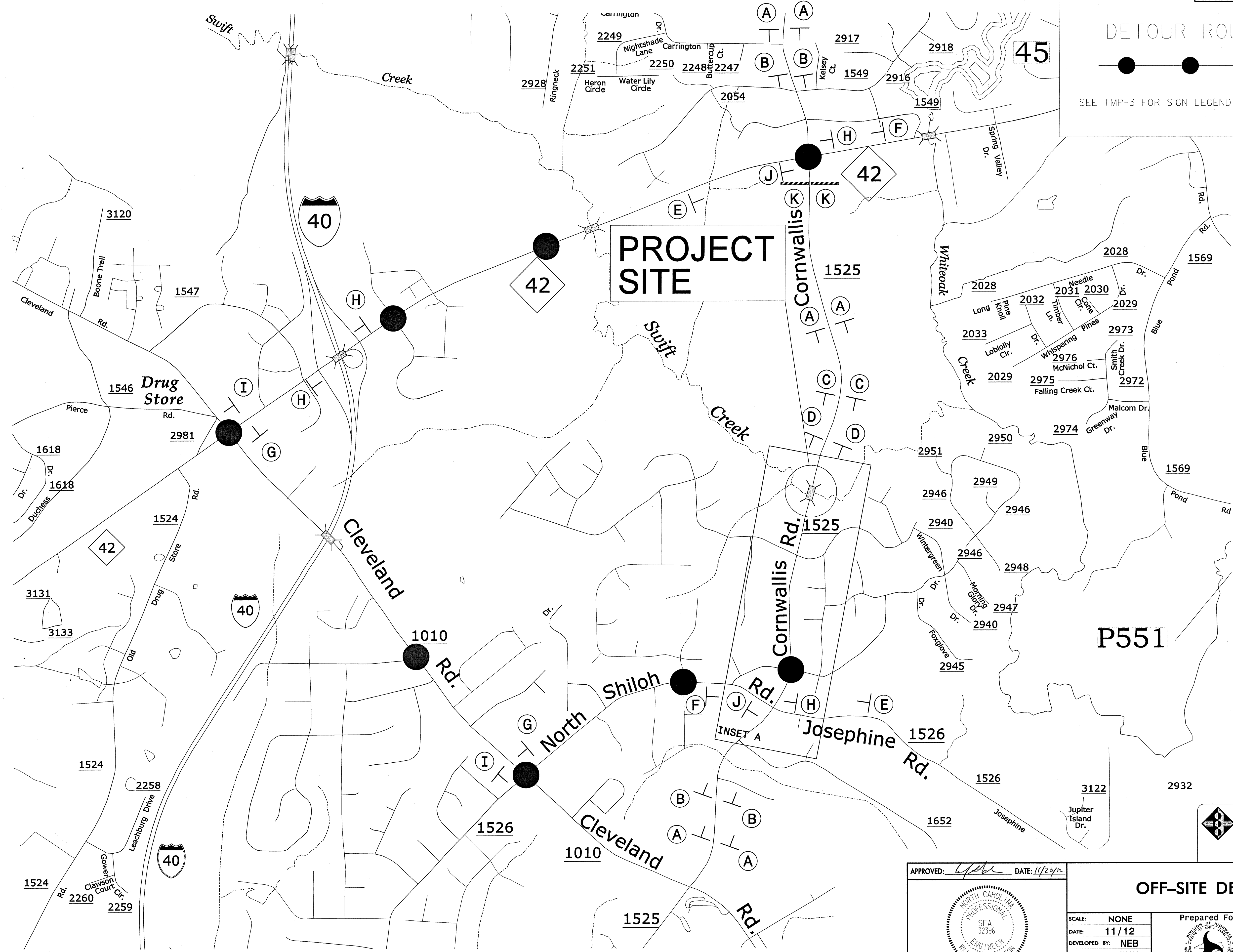


APPROVED: <i>[Signature]</i>	DATE: 2/20/13	TRANSPORTATION OPERATIONS PLAN	
	SCALE: NONE		Prepared For:
	DATE: 2/13		REVISIONS
	DEVELOPED BY: NEB		
	REVIEWED BY: WJH		
	RKA PROJ. #: 12094	CADD FILE	

DETOUR ROUTE

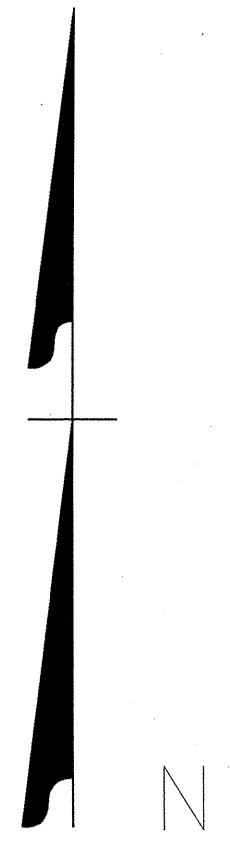


SEE TMP-3 FOR SIGN LEGEND AND LABELS



PROJECT SITE

P551



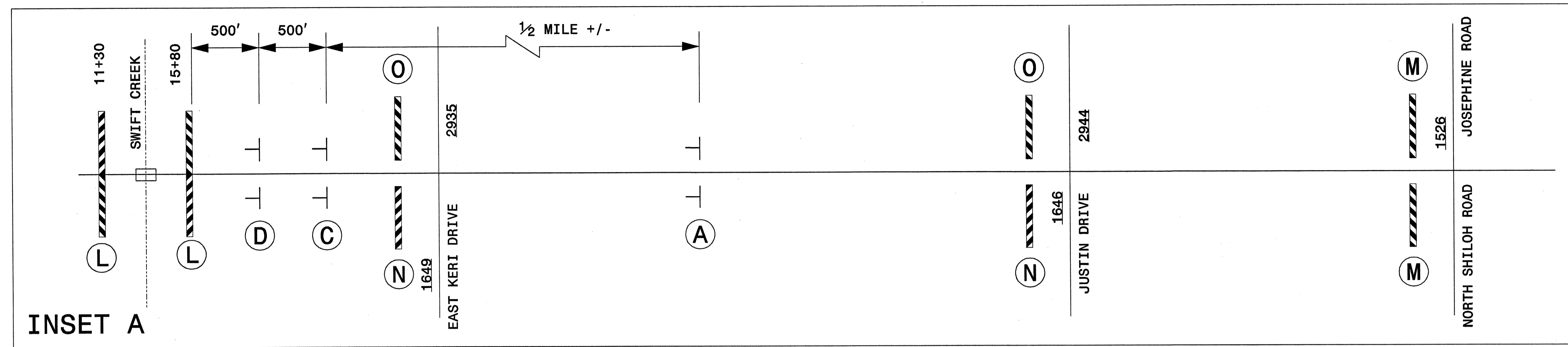
Prepared in the offices of:
RAMEY KEMP ASSOCIATES, INC.
Transportation Engineers
 6300 Falmington Place, Suite 100
 Raleigh, North Carolina 27609
 919-872-0115 Fax: 919-872-0410 Fax
 www.rameykemp.com

APPROVED: *[Signature]* DATE: 11/29/12



OFF-SITE DETOUR

SCALE: NONE		REVISIONS
DATE: 11/12		
DEVELOPED BY: NEB		
REVIEWED BY: WJH		
RKA PROJ. #: 12094		EADD FILE



- W20-3
48" X 48"

A
(8 EA)
- W20-2
48" X 48"

B
(4 EA)
- W20-3
48" X 48"

C
(4 EA)
- W20-3
48" X 48"

D
(4 EA)
- W20-3
48" X 48"

SP-4R
42" X 12"

E
(2 EA)
- W20-3
48" X 48"

SP-4L
42" X 12"

F
(2 EA)
- SD-1
M4-8
24" X 12"

M6-1
21" X 15"

G
(2 EA)
- SD-1
M4-8
24" X 12"

M6-3
21" X 15"

H
(4 EA)
- SD-1
M4-8
24" X 12"

M6-1 L
21" X 15"

I
(2 EA)
- SD-1
M4-8 A
24" X 18"

J
(2 EA)
- R11-3
60" X 30"

M4-10R
48" X 18"

K
(2 EA)
- R11-2
48" X 30"

L
(2 SETS)
- R11-4
60" X 30"

M4-10L
48" X 18"

M
(2 EA)
- R11-4
60" X 30"

N
(2 EA)
- R11-4
60" X 30"

O
(2 EA)

Prepared in the offices of:
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 9283 Falmington Place, Suite 100
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 919-773-8115 Tel. 919-773-6418 Fax.
 www.rameykemp.com

APPROVED:	DATE: 12/19/12	ROAD CLOSURE	
	SCALE: NONE		REVISIONS
	DATE: 11/12		
	DEVELOPED BY: NEB		
	REVIEWED BY: WJH		
RKA PROJ. #: 12094			CADD FILE

SIGN NUMBER: SD-1 TYPE: STATIONARY QUANTITY: SEE PLANS SIGN WIDTH: 4'-6" HEIGHT: 2'-0" TOTAL AREA: 9.0 Sq.Ft. BORDER TYPE: INSET RECESS: 0.75" WIDTH: 0.75" RADII: 3" NO. Z BARS: LENGTH:	BACKG COLOR: Fluorescent Orange COPY COLOR: Black	DESIGN BY: NE Burns PROJECT ID: B-4561	CHECKED BY: WJ Hamilton DIV: DIV	DATE: Nov 27, 2012
	SYMBOL	X	Y	WID

USE NOTES: 1,2

- Legend and border shall be direct applied black non-reflective sheeting.
- Background shall be NC GRADE B fluorescent orange retroreflective sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner

										Series/Size
										Text Length
C	O	R	N	W	A	L	L	I	S	C 2000
6.8	11.3	16	20.4	24.6	29.5	34.2	38.1	42	43.8	40.4
R	O	A	D							C 2000
18.7	23	27.2	31.9							16.6

FILENAME: B-4561_TC_TMP_SD-1

NORTH CAROLINA D.O.T. SIGN DETAIL

Prepared in the offices of:

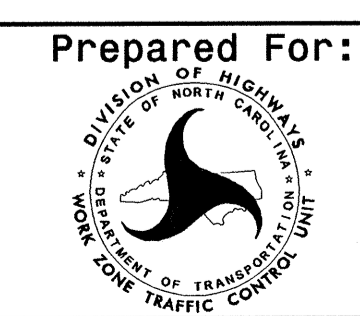
RAMEY KEMP & ASSOCIATES, INC.
 Transportation Engineers
 6808 Farrington Place, Suite 100
 Raleigh, North Carolina 27609
 919-872-5115 Tel. 919-878-5416 Fax.
 www.rameykemp.com

APPROVED: *[Signature]* DATE: 11/28/12



SPECIAL SIGN DESIGN

SCALE: NONE
 DATE: 11/12
 DEVELOPED BY: NEB
 REVIEWED BY: WJH
 RKA PROJ. #: 12094



REVISIONS	

CADD FILE