PROJECT TIP NO	EFF. 01-15-18
COUNTY	REV. 10-02-17
PROJECT ENGINEER	
PROJ. DESIGN ENGINEER	

REVIEW LIST FOR FINAL CONSTRUCTION PLANS

	LET UNDER THE 2018 SPECIFICATIONS
	HE RIGHT BOX TO APPLY "CHECK MARK" WHEN COMPLETED APPLICABLE ITEMS ON VIEW LIST. USE THE DROPDOWN ARROW TO PLACE "N/A" BY NON-APPLICABLE ITEMS.
TITLE S	<u>HEET</u>
(1)	LOCATION OF PROJECT IS COMPLETE AND ACCURATE
	COUNTY IS SHOWN
(3)	
(4)	GRAPHIC SCALES ARE SHOWN FOR PLAN AND PROFILE SHEETS
(5)	DESIGN DATA IS SHOWN
(6)	CONTROL OF ACCESS NOTE SHOWN (FULL OR PARTIAL)
(7)	SHOW ANY ADDITIONAL "CONVENTIONAL SYMBOLS" ON SHEET 1B
(8)	VICINITY MAP INCLUDES THE FOLLOWING:
	(A) CITY AND CITY LIMITS
	(B) INTERSTATE, U.S. AND STATE ROUTES
	(C) NORTH ARROW
	(D) BEGINNING AND END OF PROJECT
	(E) TITLE BLOCK
	(F)OFFSITE DETOURS
(9)	
	FOLLOWING:
	(A) PROJECT ALIGNMENT FOR ALL PROPOSED CONSTRUCTION, (- L- LINES, -Y- LINES, SERVICE ROADS, DETOURS, ETC)
	(B) EXISTING ROADS AND STREETS AFFECTED BY
	CONSTRUCTION BUT NOT A PART OF THE PROJECT
	(C) ROUTE NUMBERS, SURVEY LINE NUMBERS, STREET NAMES, ETC.
	(D) SYMBOLS FOR PROPOSED BRIDGES AND CULVERTS 20'/6 m AND OVER WITH BEGINNING AND ENDING STATIONS
	(E) STREAMS AND RIVERS
	(F)RAILROADS
	(G) CITY LIMITS
	(H) STATE AND COUNTY LIMITS
	(I) BEGINNING AND ENDING STATIONS FOR EACH PROJECT
	(J) BEGIN AND END CONSTRUCTION OUTSIDE PROJECT LIMITS
	(K) DESTINATION POINTS AT BEGINNING AND ENDING OF PROJECT
	(L)NORTH ARROW

TIP	
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(10)	PROJECT NUMBER INFORMATION INCLUDES THE FOLLOWING:
	(A) PROJECT CONTRACT NUMBER AND T.I.P. NUMBER ON LEFT
	END OF SHEET
	(B) P.E., R/W, UTILITY AND CONSTRUCTION F.A. PROJECT
	NUMBERS IN PROJECT IDENTIFICATION BLOCK (TOP RIGHT
	CORNER)
	(C) P.E., R/W, UTILITY AND CONSTRUCTION WBS ELEMENTS IN
	PROJECT IDENTIFICATION BLOCK (TOP RIGHT CORNER)
(11)	LENGTH OF PROJECT CORRECT (LENGTH SHOWN FOR ROADWAY,
(12)	STRUCTURE AND TOTAL PROJECT) SHOWN PLANS PREPARED BY: _
(13)	MONTH, DAY AND YEAR OF R/W AND LETTING SHOWN
(14)	AREAS NOT PART OF PROJECT NOTED
	REMOVE CLEARING METHOD NOTE
(16)	REMOVE NOTE FOR MUNICIPAL BOUNDARIES
INDEX	OF SHEETS, GENERAL NOTES, AND LIST OF STANDARDS
(1)	CHDMIT 9 1/2 v. 112 WODY CHEETC TO DI AN DEVIEW (AFTED DEVIEW
(1)	SUBMIT 8 ½" x 11" WORK SHEETS TO PLAN REVIEW (AFTER REVIEW RETURN WORKSHEETS AND COMPLETED SHEET 1-A TO PLAN REVIEW)
	RETURN WORRSHEETS AND COMILETED SHEET 1-A TO LEAN REVIEW)
TYPICA	AL SECTIONS
(1)	PAVEMENT SCHEDULE CORRESPONDS WITH PAVEMENT DESIGN LETTER
(2)	
(2)	SCHEDULE
(3)	
(3)	SHOULDERS, DITCHES, SLOPES, CENTERLINE TO CENTERLINE, MEDIANS,
	SIDEWALKS, UTILITY STRIPS, CURB & GUTTER, ETC.
(4)	· · · · · · · · · · · · · · · · · · ·
()	SUBGRADE, DITCHES, HINGE POINT GRADING, CUTS AND FILLS, RUMBLE
	STRIPS
(5)	
(6)	STATIONS ARE BROKEN FOR BRIDGES AND EQUALITIES
(7)	GRADING LIMIT LINES SHOWN
(8)	GRADE POINT SHOWN ON EACH TYPICAL SECTION
(9)	INFORMATION RELATED TO FUTURE CONSTRUCTION SHOWN
(10)	VARIABLE LIMITS SHOWN
(11)	NECESSARY NOTES OF EXPLANATION SHOWN
(12)	TEMPORARY PAVEMENT REQUIRES A TEMPORARY PAVEMENT DESIGN
· /	FROM THE PAVEMENT MANAGEMENT UNIT AND A TYPICAL SECTION
DETAI	LS (WHERE APPLIED)
·	
(1)	INTERSECTIONS AND ISLANDS
(2)	LAYOUT OF SYMBOLS FOR TYPES OF CONCRETE PAVEMENT (THROUGH
(2)	LANES, RAMPS AND MISCELLANEOUS)
(5)	RIP RAP NOT SHOWN BY STANDARDS
(4)	TEMPORARY SHORING

TIP		
Π P		

(5)	BENCH	SLOPES
	ROCK P	
		L DRAINAGE STRUCTURE OR ENDWALLS
	SPECIAI	
		RAIL NOT COVERED BY STANDARDS
		T WEARING SURFACE ON CORED SLAB AND BOX BEAM BRIDGES
PLAN SI	HEETS	
(1)	BEGINN	ING AND ENDING STATIONS ARE SHOWN ON FIRST AND LAST
	PLAN SI	HEET TO AGREE WITH TITLE SHEET AND TYPICAL SECTIONS
(2)	EXISTIN	IG PAVEMENT WIDTH AND TYPE IS SHOWN
		LINES AND DESIGN CORRECT
(4)		LLOWING ARE SHOWN ON EACH PLAN AND/OR PROFILE SHEET:
		NORTH ARROW
		BEARINGS
	(C)	CURVE DATA WITH SUPERELEVATION AND RUNOFF
		CONSTRUCTION LIMITS, BERM DITCHES AND LATERAL
		DITCHES
	(E)	PROPERTY OWNERS, PROPERTY LINES AND PARCEL
		NUMBERS
	(F)	R/W, EASEMENT, CONTROL OF ACCESS BREAKS BY STATION
		AND DISTANCE
	(G)	AREAS TO REMAIN UNDISTURBED WITHIN THE RIGHT-OF-
	· /	WAY ARE CLEARLY MARKED
	(H)	FENCE AND TYPE
	(I)	STREETS, ROADS AND DRIVEWAYS
		ONSITE DETOURS
	(K)	DISPOSITION OF OLD ROADS IF PROJECT IS A RELOCATION
	(L)	DIMENSIONS OF PAVEMENT AND SHOULDERS IN RELATION
	, ,	TO PROPOSED BRIDGE WIDTH (SKETCH)
	(M)	PROPOSED PAVEMENT AND RIGHT-OF-WAY WIDTHS AT THE
	, ,	BEGINNING AND END OF EACH SHEET
	(N)	SHOW LANE LINES AT INTERSECTIONS, TAPERS, AUXILIARY
	, ,	LANES, ETC.
	(O)	-Y- LINES WITH BEGINNING AND ENDING CONSTRUCTION
	, ,	STATIONS AND STATION TIES WITH MAIN LINE
	(P)	TRAFFIC DATA FOR INTERSECTIONS
	(Q)	LIMITS OF PAVED SHOULDERS AT INTERSECTIONS
		NOTE WHERE SIGHT DISTANCE GRADING IS REQUIRED
		BORROW AND/OR WASTE AREAS IF FURNISHED BY DOT
		REMOVAL OF EXISTING PIPES
		PIPES TO BE PLUGGED
		CROSS REFERENCE NOTES CORRECT
	(W)	SYMBOL DENOTING PAVEMENT REMOVAL LOCATIONS
		BEGINNING AND END STATION FOR BRIDGES AND CULVERTS
		UNDERCUT EXCAVATION ON PROFILE
		STRUCTURAL SHEET NUMBERS, IF COMBINED BID
		HYDRAULIC DATA (DRAINAGE AREA, FREQUENCY, ETC.)

TIP

	(BB)	FALSE SUMP DETAIL [IF NOT SHOWN ON DITCH DETAILS
		SHEET (2D-SERIES)]
		BENCH MARKS (PROFILES AND/OR SURVEY CONTROL SHEETS)
	(DD)	LABEL QUANTITIES AT EACH LOCATION AS FOLLOWS:
		1RIP RAP
		2DRAINAGE DITCH EXCAVATION
		3GEOTEXTILE FOR DRAINAGE
		DRAINAGE
	(FF)	REMOVE BASELINE AND BASELINE STATIONS
	(GG)	ENSURE BASELINE DATA IS SHOWN WITH POINT SYMBOL
		AND POINT NUMBER
	(HH)	LABEL WELLS TO BE SEALED AND ABANDONED.
<u>INTERC</u>	HANGE SHEET	<u>'S</u>
(1)	INTERCH	ANGE SHEETS PROPERLY MATCHED WITH ADJACENT PLAN
(1)		TTH NO OVERLAPPING COVERAGE, IF POSSIBLE
(2)		JRES CHECKED FOR VERTICAL AND HORIZONTAL CLEARANCES
(3)		LOWING INFORMATION SHOWN ON THE INTERCHANGE DETAILS
(3)	AND PRO	
		TRAFFIC DATA
	(B)	BAR SCALE
	(C)	ADDITIONAL ITEMS AS LISTED UNDER PLAN SHEETS
(4)		R GRADING DETAIL SHOWN, IF REQUESTED BY THE DIVISION
(5)	CROSS-S	ECTION LAYOUT DETAIL/SHEAR POINT DIAGRAM(NOT ALWAYS
(6)		D FOR DIAMOND INTERCHANGE)
INTERSI	ECTION SHEET	<u>ΓS</u>
THE INE	CODMATION SI	HOWN ON THE INTERSECTION DETAILS SHALL BE RESTRICTED
		LY. THE FOLLOWING SHALL BE SHOWN:
		FORMATION FOR CONSTRUCTING THREE CENTERED CURVES
(2)	ISLAND I	DETAILS
(3)	LEGEND	FOR ISLANDS, SIDEWALKS, CURB RAMPS
(4)	ALIGNMI	ENT ADVINCE
	LANE MA	
(0)	BAR SCA	LE ED EDCES OF DAVEMENT
(1)	PROPUSE	ED EDGES OF PAVEMENT
	NORTH A	
(9)	SUPEREL	EVATION RATES
(10)	PAVED S	HOULDER WIDTHS
(11)	SUFFICIE	ENT DIMENSIONS AND TIE POINTS FOR FIELD LOCATION
CROSS-9	SECTIONS	
(1)	SHOW EX	CISTING GROUND LINE, STATIONS AND ELEVATIONS
(2)	TEMPLA	TES SHOWING LABELED CUT AND FILL SLOPES, GUARDRAIL
(2)	WIDENIN	IG, DITCHES, CHANNEL CHANGES, ETC. Y REPORT REVIEWED TO ASSURE CONFORMITY WITH PLANS
(3)	GEOLOG	Y REPORT REVIEWED TO ASSURE CONFORMITY WITH PLANS

TIP		

(4)	UNDERCUT EXCAVATION AND/ OR SHALLOW UNDERCUT SYMBOL IS SHOWN
(5)	NOTE ON CROSS-SECTION SUMMARY SHEET SHOULD INDICATE WHETHER OR
(6)	NOT THE EMBANKMENT COLUMN INCLUDES BACKFILL FOR UNDERCUT EARTHWORK COMPUTATION SHEETS COMPLETE
(7)	CROSS-SECTIONS CHECKED TO ASSURE ADEQUATE SIGHT DISTANCES AT
· /	BRIDGES AND INTERSECTIONS
(8)	NOTE SHOWN ON CROSS-SECTION SUMMARY SHEET
	SCALE SHOWN ON EACH SHEET
GHARDR	AIL DESIGN
(1)	GUARDRAIL SHOWN FOR BRIDGE PIERS, CULVERTS, LARGE PIPE, SIGN
(0)	SUPPORTS AND OTHER FIXED OBJECTS GUARDRAIL SHOWN FOR PONDS, RIVERS AND OTHER WATER RELATED
(2)	GUARDRAIL SHOWN FOR PONDS, RIVERS AND OTHER WATER RELATED
(2)	HAZARDS
(3)	GUARDRAIL SHOWN ON PLANS
	GUARDRAIL SHOWN ON THE GUARDRAIL SUMMARY SHEET
(5)	SPECIAL DETAILS SHOWN AS REQUIRED
(6)	ENSURE THAT THE STRUCTURE GUARDRAIL ANCHOR SHOWN ON THE
	PLANS ATTACHES TO THE BRIDGE BARRIER
SIIMMAE	RY OF QUANTITIES
(1)	COMPUTATION SHEET TOTALS FOR EACH PAY ITEM CHECKED AGAINST
	ESTIMATE
(2)	SUMMARY SHEETS INITIALED BY PERSON WHO WORKED AND CHECKED
	SUMMARIES
(3)	REFERENCE PAVEMENT STRUCTURE VOLUME (WHEN APPLICABLE)
	BELOW EARTHWORK SUMMARY
(4)	BELOW EARTHWORK SUMMARY EARTHWORK SUMMARY (SHOW NOTE RELATED TO GEO-TECH DATA)
(5)	DRAINAGE SUMMARY
(6)	GUARDRAIL SUMMARY
(7)	SHOULDER DRAIN SUMMARY
(8)	PAVEMENT REMOVAL SUMMARY
(9)	FENCE SUMMARY (URBAN PROJECTS)
(10)	GEOTECHNICAL SUMMARIES (SHEET 3G-1)
(11)	MISCELLANEOUS SUMMARIES AS NECESSARY
ESTIMAT	<u>'ES</u>
	ESTIMATE MADE FOR EACH WBS ELEMENT, FEDERAL PROJECT NUMBER,
(1)	AND OTHER DARMS AS NECESSARY
(2)	AND OTHER PARTS AS NECESSARY FINAL TRNS*PORT ESTIMATE CHECKED AGAINST THE QUANTITY
(2)	FINAL TRINS PORT ESTIMATE CHECKED AGAINST THE QUANTITY
(2)	CALCULATIONS DESCRIPTION NUMBER, SECTION NUMBER AND ITEM DESCRIPTION
(4)	CHECKED AGAINST PAY ITEM LIST
(4)	FORCE ACCOUNT ITEMS INCORPORATED INTO THE ESTIMATE ON F.A.
(5)	PROJECTS TRANSCRIPT FORTH AATER BY A GER BY THE BROWN FROM FROM FROM FROM FROM FROM FROM FROM
	TRNS*PORT ESTIMATE PLACED IN THE PROJECT FILE
(h)	PROJECT LENGTH SHOWN ON ESTIMATE AGREES WITH TITLE SHEET

TIP		

(7)	(ROADWAY'S LENGTH ONLY) _ COST BASED ESTIMATE QUANTITY BREAKDOWN SUMMARY SHEET
(·/ <u></u>	COMPLETED
(8)	_ INCLUDE ON ROADWAY ESTIMATE ANY STRUCTURE REMOVAL PAY
	ITEMS NOT INCLUDED ON THE STRUCTURE ESTIMATE
<u>GENERAL</u>	
(1)	_ CHECK SUBSURFACE PLANS WITH GRADE LINE AND EARTHWORK
	BALANCE SHEET AGAINST FINAL ROADWAY PLANS
(2)	
	NUMBER, CONTRACT NUMBER AND COUNTY
(3)	ALL QUANTITY CALCULATION SHEETS IDENTIFIED BY THE T.I.P. NUMBER.
	SHOW CONSTRUCTION WBS ELEMENT AND SIGNATURE ON SHEET NO. 1
(4)	EXCAVATION QUANTITIES AT CULVERTS HAVE BEEN COORDINATED
(5)	WITH STRUCTURE MANAGEMENT
(5)	
(6)	FROM ALL SHEETS DESIGN EVERTION REQUESTED, A DROWED, A NO NOTED ON DLANG
(0)	_ DESIGN EXCEPTION REQUESTED, APPROVED, AND NOTED ON PLANS _ RIGHT-OF-WAY REVISION NOTES REMOVED FROM THE PLANS
	_ T.I.P. NUMBER IS SHOWN ON ALL SHEETS
	COORDINATE FINAL PLANS WITH PLANNING & ENVIRONMENTAL AND
())	HYDRAULICS UNIT TO ENSURE COMPLIANCE WITH PERMIT
(10)	UTILITY ITEMS ARE INCLUDED
	LANDSCAPE AND EROSION CONTROL ITEMS ARE INCLUDED
(12)	SIGNING AND SIGNALIZATION ITEMS ARE INCLUDED
	TRAFFIC CONTROL PLAN ITEMS ARE INCLUDED
(14)	
	TITLE BLOCK IF DIFFERENT FROM CONSTRUCTION SHEET NUMBERS
	(EXAMPLE: R/W 12)
(15)	
	STRUCTURE PLANS (CIRCLE TYPE OF APPROACH FILL SPECIFIED IN
(1.6)	STRUCTURE PLANS ITEM #8)
(16)	PLACE IMAGE OF PROFESSIONAL ENGINEER SEAL (MULTIPLE SEALS MAY
	BE REQUIRED ON A SINGLE SHEET) WITH ENGINEER'S NAME AND LICENSE NUMBER. ELECTRONIC SIGNATURES ARE NOT REQUIRED AT THE
	INITIAL TURN-IN TO PLAN REVIEW.
(17)	HAS PAVEMENT MANAGEMENT REVIEWED PLANS FOR SHOULDER DRAIN
(17)	LOCATIONS?
(18)	SUBMIT FULL SIZE CROSS-SECTION SHEET IF 30 SHEETS OR LESS. SUBMIT
	LEDGER CROSS-SECTION SHEETS IF 31 SHEETS OR MORE.
(19)	_ ENSURE PLANS INCLUDE ANY "ENVIRONMENTAL COMMITMENTS".
(20)	_ ALL INDIVIDUAL PDF SHEETS MUST BE SCALED 34" WIDE X 22" HIGH.
(21)	BIND PLANS WITH BINDER CLIPS. NO SCREWS, PLEASE.
(22)	PROJECT FILE CONTAINS CORRESPONDENCE RELATED TO STANDARD
(22)	SPECIFICATIONS SECTIONS 210 OR 215.
(23)	_ INCLUDE PARCEL INDEX SHEET (FOR PROJECTS WITH 2 OR MORE PLAN
	SHEETS AS 3P-1.

TIP			
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(24)	INCLUDE BRIDGE "FOUNDATION RECOMMENDATIONS" IN THE BOUND
	FILE.
(25)	RETAINING OR SOUND BARRIER WALLS PLANS INCLUDED AS SPECIFIED
	BY MR. ART MCMILLIAN, P.E. (PER MEMO 7-29-05)
(26)	REFER TO THE ROADWAY DESIGN MANUAL, PART II, CHAPTER 13,
	SECTION 13-1 FOR PROJECT FILE CONTENT.
(27)	AT THE TIME FINAL PLANS ARE SUBMITTED TO THE PLAN REVIEW
	SECTION, SEND A PDF OF THE TRANSPORT ESTIMATE FOR EACH OF THE
	DESIGN UNITS TO THE DIVISION CONSTRUCTION ENGINEER.
(28)	AT THE TIME FINAL PLANS ARE SUBMITTED TO THE PLANS CHECKING
	UNIT, NOTIFY LOCATION & SURVEYS (L & S) CENTRAL OFFICE THAT
	PLANS ARE COMPLETE OF THE CURRENT DIRECTORY OF THE
	ELECTRONIC DESIGN PLANS (EMAIL TO UNIT HEAD IS SUFFICIENT).
(29)	ONCE THE BALANCE SHEET HAS BEEN CHECKED BY THE PLANS AND
	STANDARDS MANAGEMENT SECTION, PLACE AN ELECTRONIC COPY
	(EXCEL FORMAT REQUIRED) OF THE EARTHWORK BALANCE SHEET IN
	THE "PRELETSTAGE\TIP#\ROADWAY\EARTHWORK BALANCE SHEET"
	FOLDER.
(30)	GEOTECHNICAL STANDARD DRAWINGS AND PROVISIONS ARE CURRENT.
	FOR STANDARD DRAWINGS, COMPARE DRAWING DATE TO EFFECTIVE
	LET DATE SHOWN HERE:
	https://connect.ncdot.gov/resources/Geological/Pages/Geotech_Forms_Details.aspx
	FOR STANDARD PROVISIONS, COMPARE PROVISION DATE TO EFFECTIVE
	LET DATE SHOWN HERE
	https://connect.ncdot.gov/resources/Geological/Pages/Geotech Provisions Notes.aspx
(31)	HAVE YOU COORDINATED THE "GEOTECHNICAL SUMMARY TABLES"
	WITH THE GEOTECHNICAL ENGINEERING UNIT? (PER GEOTECH. AUGUST
	28, 2012 MEMO)
(32)	SEND A PDF OF YOUR PLANS TO PAVEMENT MANAGEMENT AND TO THE
	HYDRAULICS UNIT FOR REVIEW BEFORE SEALING THEIR PLANS
SPECIAL	PROVISIONS
(1)	(CDECIAL DEOVICIONS WEITTEN FOR ALL DAY ITEMS AND CONTRACT
(1)	(SPECIAL PROVISIONS WRITTEN FOR ALL PAY ITEMS AND CONTRACT IMPLEMENTATION ITEMS NOT COVERED BY THE CURRENT "STANDARD
	SPECIFICATIONS FOR ROADS AND STRUCTURES", PROJECT PROVISIONS OR STANDARD SPECIAL PROVISIONS.
	OR STAINDARD SPECIAL PROVISIONS.
PLANS P	REPARED BY: