ODOT NOISE ANALYSIS REPORT PREPARATION/REVIEW CHECKLIST

NOTE: THIS CHECKLIST IS INTENDED TO PROVIDE A DETAILED GUIDE TO THE CONTENTS OF A NOISE ANALYSIS REPORT AND TO HELP THE REVIEWER ENSURE THE REPORT COMPLIES WITH 23CFR772 AND ODOT'S 2013 TRAFFIC NOISE ANALYSIS MANUAL. WHILE THIS CHECKLIST IS COMPREHENSIVE, EACH PROJECT IS UNIQUE. THE NOISE REPORT MAY ADDRESS AREAS THAT ARE NOT IN THIS CHECKLIST.

1. TABLE OF CONTENTS
2. EXECUTIVE SUMMARY
3. INTRODUCTION- PROJECT DESCRIPTION AND OVERVIEW OF PREFERRED ALTERNATIVE INCLUDED
4. NOISE ANALYSIS OVERVIEW- REGULATORY OVERVIEW, OBJECTIVES, FHWA NOISE ABATEMENT CRITERIA (NAC), NOISE DESCRIPTORS DISCUSSION INCLUDED
5. ALL NSAS SHOWN/DESCRIBED/DISCUSSION
6. PROJECT TRAFFIC DATA INCLUDED/DISCUSSED (EXISTING AND DESIGN YEAR BUILD (DYB) ADT, TRUCK %, VPH; A/B/C VEHICLE VOLUMES USED IN THE MODEL
7. NOISE MEASUREMENTS DISCUSSION AND MAPPING INCLUDED- ALL NOISE READING LOCATIONS MUST HAVE A CORRESPONDING ADDRESS OR SPECIFIC LOCATION
9. NOISE MODELING METHODOLOGY DISCUSSION INCLUDED. DISCUSS VALIDATION, EXISTING, DYB.
10. IMPACT ASSESSMENT- NOISE IMPACTS DISCUSSION BY LOCATION OF NOISE SENSITIVE AREA (NSA) INCLUDED. FEASIBILITY AND REASONABLENESS ADDRESSED FOR EACH NSA. TABLES AND GRAPHICS SHOWING EXISTING LEVEL, DYB LEVEL, DYB WITH WALL LEVEL, NOISE REDUCTION FOR EACH MODELED RECEPTOR ARE INCLUDED. IMPACTED AND BENEFITED RECEPTORS ARE HIGHLIGHTED.
11. RELATIVE TO SHOWING NOISE LEVELS, INCREASES, AND REDUCTIONS IN THE REPORT, SHOW ONE DECIMAL POINT. FOR CATEGORY B AND C RECEPTORS, 65.5 DBA IS AN IMPACT. 65.4 IS NOT AN IMPACT. A REDUCTION OF 4.5 DBA IS CONSIDERED A BENEFIT.
12. EQUIVALENT NUMBER OF RECEPTORS COMPUTED FOR FHWA CATEGORY C LAND USES, IF APPLICABLE (I.E. PARKS, SCHOOLS, CHURCHES, ETC). PROVIDE ENTIRE COMPUTATION
13. NOISE ABATEMENT MEASURES- DISCUSSION OF THE EVALUATION OF NOISE ABATEMENT ALTERNATIVES UNDER 23CFR772.15C INCLUDED
14. IF IT IS REQUIRED TO MODEL A NOISE BARRIER, A MINIMUM OF TWO NOISE BARRIER SCENARIOS WERE MODELED AND DOCUMENTED (BASED ON HTS, PLACEMENTS, AND/OR LENGTHS) WITH THE OPTIMUM BARRIER BEING RECOMMENDED. ODOT'S OPTIMUM BARRIER MEETS THE MINIMUM ACOUSTIC REQUIREMENTS OR IS SLIGHTLY BETTER. IT IS TYPICALLY NECESSARY TO MODEL DIFFERENT WALL HEIGHTS AND WALL LOCATIONS. ALSO, NOISE WALLS WERE MODELED ON AND OFF EXISTING STRUCTURES. MUST CONSULT WITH OES PER THE NOISE WALL PRELIM PLACEMENT PLAN (NWPPP) PROCESS
15. IF A NOISE WALL IS FEASIBLE AND REASONABLE, INCLUDE A CONSTRUCTABILITY DISCUSSION (I.E. ARE THERE ISSUES WITH EXISTING OVERHEAD OR UNDERGROUND UTILITIES, TOWER LIGHTING, SIGNAGE, LANDFILLS, FLOODPLAINS, UTILITY MARKERS, VALVE BOX, MANHOLE, HYDRANT, EXPOSED CONDUIT, ETC). DISCUSS RESULTS OF REQUIRED COORDINATION WITH ODOT COUNTY MANAGER.
16. IF A NOISE WALL IS DETERMINED TO BE FEASIBLE AND REASONABLE, PROVIDE LOCATION, PLACEMENT (L/A, SHOULDER, ETC) AVG HEIGHT, LENGTH, EST COST, SF, # OF BENEFITED RECEPTORS, COST PER BENEFITED RECEPTOR, # OF IMPACTED RECEPTORS, # OF IMPACTED AND BENEFITED RECEPTORS. INCLUDE A SUMMARY TABLE SHOWING ALL MODELED WALLS AND AN ADDED SUMMARY TABLE OF ONLY THE NOISE WALLS BEING RECOMMENDED IN THE CONCLUSIONS/RECOMMENDATIONS.
17. UNDEVELOPED LANDS- NOISE IMPACTS OF UNDEVELOPED LANDS DISCUSSED. AT A MINIMUM, DISTANCE TO THE EXTERIOR NOISE ABATEMENT CRITERIA IN 23CFR772 TABLE 1 PROVIDED.
18. CONSTRUCTION NOISE IN ACCORDANCE WITH 23 CFR 772.19 DISCUSSED.
19. CONCLUSION AND RECOMMENDATIONS INCLUDED. PROVIDE A SUMMARY OF NOISE ABATEMENT FEASIBLE AND REASONABLE AND RECOMMENDED FOR NOISE PI (LENGTH, HT, PLACEMENT, SF, COST, # BEN REC, CPBC, ETC)

APPENDICES/FIGURES/GRAPHICS

a) RECORD OF EQUIPMENT USED FOR NOISE MEASUREMENTS AND CALIBRATION CERTIFICATES
b) CERTIFIED TRAFFIC PLATES INCLUDED, IF AVAILABLE
c) PI NOTIFICATION LETTERS FOR FIELD WORK INCLUDED
d) NOISE MEASUREMENT OUTPUT DATA PRINTOUTS AND FIELD SHEETS INCLUDED
e) TNM INPUT- TRAFFIC, RECEIVERS, ROADWAYS, BARRIERS, BUILDING ROWS, TERRAIN LINES, ETC INCLUDED. DEPENDING ON VOLUME OF DATA, INFO CAN BE PLACED ON A CD.
f) TNM OUTPUT TABLES FOR VALIDATION, EXISTING, DYB- TNM PLAN VIEWS, SOUND LEVEL RESULTS, NOISE BARRIER DESIGN (IF APPLICABLE). BARRIER SEGMENT DESCRIPTIONS INCLUDED. DEPENDING ON VOLUME OF DATA, INFO CAN BE PLACED ON A CD.
g) AERIAL MAPPING IN COLOR SHOWING PROJECT LOCATION AND ALL NOISE READING LOCATIONS INCLUDED
h) REPORT GRAPHICS ILLUSTRATE THE PREFERRED ALT, MODELED, IMPACTED, BENEFITED, IMPACTED AND BENEFITED, IMPACTED AND NOT BENEFITED, BENEFITED AND NOT IMPACTED RECEPTORS, MODELED NOISE BARRIERS RECOMMENDED AND/OR NOT RECOMMENDED, TAKES, DESIGN YEAR BUILD NOISE LEVEL/DESIGN YEAR BUILD NOISE LEVEL WITH NOISE REDUCTION, HEIGHT AND LENGTH OF WALL, NOISE MEASUREMENT LOCATION, WALL LOCATION AT ROW OR EOS.
i) ALL TNM RECEIVERS SHOWN ON AERIAL MAPPING
j) ADDRESSES OF ALL BENEFITED RECEIVERS (5 DBA OR GREATER) (OCCUPANTS AND/OR OWNERS) FOR EACH FEASIBLE AND REASONABLE NOISE WALL ARE INCLUDED. ADDRESSES ARE LINKED TO NSA ID OR WALL ID. FIELD VERIFY ADDRESSES OF THE BENEFITED RECEIVERS
k) PROJECT ROADWAY PLAN SHEETS INCLUDED, IF AVAILABLE
l) CORR INCLUDES TFM FILES (EXISTING, VALIDATION, DYB), DXF IMPORT FILES, NOISE ANALYSIS REPORT IN MS WORD AND APPENDICES IN PDF FORMAT INCLUDED
m) NOISE BARRIER DESIGN TABLE (NBDT) INCLUDED (IF APPLICABLE AND SCOPED)