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| ALABAMA DEPARTMENT OF TRANSPORTATIONCHECKLIST – Traffic Signal Plans | | Project No. | | | Reference No. |
| Location | | | |
| County | | Date | |
| Checked By | Consultant | |  | | |

I. GENERAL

A. UPDATE TRAFFIC SIGNAL PROJECT LIST

B. GEOTECHNICAL DATA FOR SOIL BORINGS

C. SALVAGE VALUE ($5000)

D. TRAFFIC SIGNAL WARRANT ANALYSIS

E. IF TRAFFIC SIGNAL REMOVED NEED REMOVAL WARRANTS

F. REFERENCES MUTCD, STANDARD DRAWINGS, AND THE TRAFFIC SIGNAL DESIGN GUIDELINES TIMING MANUAL

II. TRAFFIC SIGNAL PLAN SHEETS

A. TITLE SHEET

1. Title to include the word “Signals”

B. LEGEND SHEET

1. Traffic Signal / ITS Legend Sheet included

2. Is this the most current Legend Sheet

3. Fill in title block

4. Sheet number in title box

C. INDEX TO SHEETS

1. Check sheet numbers against plan sheet numbers.

2. Check description of all special detail drawings

3. All fiber optic special detail drawings are included

4. List applicable SHS standard drawings

5. Fill in title block

6. Sheet number in title box

D. TRAFFIC SIGNAL NOTE SHEET / ITS NOTE SHEET

1. Is this ITS Note Sheet required?

2. Is this the most current ITS Note Sheet

3. Is this the most current Traffic Signal Note Sheet?

4. Are the notes circled?

5. Fill in title block

6. Sheet number in title box

E. TRAFFIC SIGNAL BOX SHEET

1. Show TSD Standard Drawings and Special Detail Fiber Drawings

2. Check box sheet item descriptions against pay items list

3. Check box sheet for all required pay items

4. Fill in title block

5. Sheet number in title box

F. SUMMARY OF QUANTITIES SHEET

1. Check box sheet item descriptions against pay items list

2. Complete upper title box and lower title area

3. Check description and pay item number against box sheet

4. Fill in title block

5. Sheet number in title box

G. TRAFFIC SIGNAL LAYOUT SHEET

1. Use current ALDOT plan sheet files for traffic signal plan sheets

2. All traffic signal layouts should be drawn to scale

3. Show North Arrow

4. Show scale

5. Use symbols shown on Legend Sheet

6. Show R.O.W.

7. Show alignment with stations

8. Show utilities

9. Show railroad tracks, name, and R.O.W.

10. Show drainage flumes

11. Show drainage culverts

12. Show R10-10, R10-12, and R4-B signs on layout"

13. Show encasement under roadways and paved driveways

14. Show detection zones for video detection

15. Show luminaires

16. Show quadrupole loops for protected and protected permissive left turns

17. Show removal diagrams for existing or temporary equipment

18. Show special phasing diagrams

19. Label roadway names and routes on layout and on removal diagram

20. Number traffic signal heads, pedestrians heads, and push buttons & check position

21. Check signal head numbering against TSOP

22. Check distance from stop lines to signal heads

23. Do pedestrian heads align with crosswalk?

24. Label pole mounted controller cabinet

25. Number traffic signal poles

26. Show pole height and luminaire length,

27. Signal heads oriented with the lanes

28. Are there 2 signals heads for each main approach? MUTCD

29. Show distance from stop lines to setback loops

30. Complete Conduit and Conductor Schedule

31. Complete the Estimated Equipment and Material Schedule

32. Complete the Supporting Structures Schedule

33. Location of controller shown

34. Junction box to junction box distance approximately 300 - 350 feet apart

35. Show striping, legends, crosswalks and markings

36. Add note that striping is for illustrative purposes only

37. Show encasement and label size, number of lines, and type

38. Check curves for site distance to signal heads

39. Timing Box

40. Check need for advance warning signs?

41. TSOP note

42. Show Power Source (Label if existing retain)

43. Show traffic signal faces

44. Show sign faces

45. Check speed against loop setback distances

46. Are there any voltage drop concerns

50. Are all materials and equipment without pay items listed in the Estimated Equipment Box

51. Check the need for advance warning signs or flashers

52. Conduit attached to bridge is either metallic, schedule 80 PVC, or HDPE

53. Luminaires are perpendicular to roadway edge

54. Heads no closer than 8 feet apart

55. Consider future roadway improvements (pole setback etc)

56. Luminaires and poles clear overhead utilities

57. At least 2 traffic signal heads for major movement

58. Show Guardrail

59. Show volume density timings for setback loops

H. RAILROAD PREEMPTION

1. Does railroad meet the MUTCD criteria for traffic signal preemption?

2. Check for need of blank out message sign

3. Railroad Row

4. Title Sheet RR Name, DOT No., Milepost on RR track

5. Junction box and connection note

6. Under track bores require steel pipe

7. Preemption Phasing

8. Railroad Notes on Traffic Signal Note Sheet

9. Agreements requested or commented on a meeting

10. Overhead wire line must have diagram specific to the particular railroad company

I. INTERCONNECT SHEET

1. Begin and end work and project stations agree with plan sheets

2. 1"=100' scale

3. Show Scale

4. Check match lines

5. Show all poles aerial interconnect is to be attached

6. Show location of controllers

7. Show begins and end project and work

8. Show guardrail

9. If fiber optics involved label mode of fiber and number of fibers

10. Check match lines

11. Fill in title block

12. Sheet numbers

J. FOR INFORMATION ONLY PLAN SHEETS

1. Proper sheet number references for this plan

2. Proper sheet number references for this plan.

3. Project number included on sheet

4. Mark “For Informational Purposes Only” across sheet

5. Cross through old project sheet numbers and project number

K. TCP SHEETS

1. Check TCP's for coordination of traffic signal installation with roadway work

2. Include the installation of traffic signals in the sequence of construction

L. CROSS SECTION SHEETS

1. Check location of traffic signal poles against cross sections to determine if will be in fill area

M. STANDARD DRAWINGS

1. Power Service Detail

2. Metal Traffic Signal Pole, Sht 1 of 2

3. Metal Traffic Signal Pole, Sht 2 of 2

4. Traffic Signal Pole Foundation

5. Spun Concrete Traffic Signal Pole

6. Wooden Traffic Signal Pole Details

7. Advance Warning at Intersections

8. Intersection and Advanced School Warning Flasher Detail

8. Pedestrian Signal Installation

10. Base and Pole Mounted Controller Cabinet Installation

11. Loop Wire Installation

12. Video Detection Installation

13. Junction Box Installation

14. Type 1 and Type 5 Encasement Details

15. Hardware for Interconnect Attachment Details

16. Conduit Attached to Bridge Detail

N. FIBER OPTIC SPECIAL DETAILS

1. Typical Fiber Optic Connectivity Process

2. Typical Detail Outside Plant Cable Pulling Operation

3. Project Detail Open Trench Construction for Fiber Optic Cable

4. Overhead Splice Details

5. Down Guy & Aerial Junction Details

6. Extension Arm Details

7. Grounding Details

8. Cable Slack Details

9. Pole Attachment Code Requirements