

SURVEYED BY \_\_\_\_\_  
 SUPERVISED BY \_\_\_\_\_  
 DESIGNED BY \_\_\_\_\_

# '95 CADD LEVEL STRUCTURE

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE PROJECT	FEDERAL AID PROJECT	ROUTE	STATE PROJECT	SHEET NO.
	VA.				

LEVEL 1	LEVEL 1	CENTRALING, TRANSFER, CONTROL STATION
LEVEL 2	LEVEL 2	BRIDGES
LEVEL 3	LEVEL 3	EDGE OF PAVEMENT
LEVEL 4	LEVEL 4	CURB AND GUTTER
LEVEL 5	LEVEL 5	CURB
LEVEL 6	LEVEL 6	PAVED SHOULDER
LEVEL 7	LEVEL 7	SIDEWALK
LEVEL 8	LEVEL 8	BUILDINGS/PORCHES
LEVEL 9	LEVEL 9	WALKS
LEVEL 10	LEVEL 10	STEPS
LEVEL 11	LEVEL 11	FENCES
LEVEL 12	LEVEL 12	WOOD LINE TREES, SHRUBS, FOLIAGES
LEVEL 13	LEVEL 13	RETAINING WALLS
LEVEL 14	LEVEL 14	CONCRETE SLABS, COLUMNS, SIGNS, POSTS
LEVEL 15	LEVEL 15	TANKS

LEVEL 16	LEVEL 16	QUADRANTS
LEVEL 17	LEVEL 17	ROOFS OF WATER
LEVEL 18	LEVEL 18	PAVED DITCHES
LEVEL 19	LEVEL 19	DRAINAGE FEEDS, DRAINAGE WALLS, CATCH BASINS, DROP INLET/SIGHT/VERT. PIPES
LEVEL 20	LEVEL 20	RAUROADS, ETC.
LEVEL 21	LEVEL 21	SEPTIC TANKS, DRAIN FIELDS, WELLS
LEVEL 22	LEVEL 22	CEMETETERIES
LEVEL 23	LEVEL 23	RIGHT OF WAY AND RIGHT OF WAY WORKMENTS
LEVEL 24	LEVEL 24	PROPERTY LINES AND PROPERTY PINS
LEVEL 25	LEVEL 25	STATE, COUNTY AND CITY BOUNDARY LINES
LEVEL 26 - 30	LEVEL 26 - 30	NOT ASSIGNED
LEVEL 31 - 35	LEVEL 31 - 35	ANNOTATION FOR LEVELS 1 - 35
LEVEL 36 - 40	LEVEL 36 - 40	NOT ASSIGNED
LEVEL 41	LEVEL 41	PLAN SHEET, NORTH ARROW, SCALE, BAR, ETC.
LEVEL 42	LEVEL 42	GRID AND LABELS
LEVEL 43	LEVEL 43	NOT ASSIGNED

LEVEL 1	LEVEL 1	EXIST. CONDUIT, CONDUCTOR CABLE, TRANSFORMERS & CONTROLLER CABINETS
LEVEL 2	LEVEL 2	EXIST. SIGNAL HEADS, PRE-SET PLAN HEADS, WEST AND NORTH ARROW, SIGNAL MISC. SIGNAL SIGNS, PRE-SET PLAN HEADS, LUMINAIRES & LUMINAIRE ARMS
LEVEL 3	LEVEL 3	EXIST. PAUSING DIAGRAM, COLOR SEQUENCE CHART, CLEARANCE CHART, TYPING CHART & DESIGN SYMBOLS
LEVEL 4	LEVEL 4	EXIST. SIGN PANELS, STRUCTURES & LUMINAIRES
LEVEL 5	LEVEL 5	EXIST. DELINEATORS
LEVEL 6	LEVEL 6	EXIST. HIGH MAST LIGHTING STANDARDS, OFFSET LIGHTING STANDARDS & CONVENTIONAL LIGHTING STANDARDS
LEVEL 7	LEVEL 7	EXIST. ELECTRICAL SERVICE, METER BOXES & SAFETY SWITCHES
LEVEL 8	LEVEL 8	EXIST. PAVEMENT MARKINGS & PAVEMENT MARKERS
LEVEL 9	LEVEL 9	NOT ASSIGNED
LEVEL 10	LEVEL 10	NOT ASSIGNED
LEVEL 11	LEVEL 11	EXIST. CONDUIT TEST & CONDUCTOR CABLE TEST
LEVEL 12	LEVEL 12	LABELING OF EXISTING SIGNAL EQUIPMENT
LEVEL 13	LEVEL 13	LABELING OF EXIST. SIGNAL CHARTS & CHANGES
LEVEL 14	LEVEL 14	LABELING OF EXIST. SIGN STRUCTURES
LEVEL 15	LEVEL 15	LABELING OF EXIST. DELINEATORS

LEVEL 16	LEVEL 16	LABELING OF EXIST. LIGHTING STANDARDS
LEVEL 17	LEVEL 17	PROPOSED CONDUIT, CONDUCTOR CABLE, TRANSFORMERS & CONTROLLER CABINETS
LEVEL 18	LEVEL 18	PROPOSED SIGNAL HEADS, PRE-SET PLAN HEADS, WEST AND NORTH ARROW, SIGNAL SIGNS, PRE-SET PLAN HEADS, LUMINAIRES & LUMINAIRE ARMS
LEVEL 19	LEVEL 19	PROPOSED PAUSING DIAGRAM, COLOR SEQUENCE CHART, CLEARANCE CHART, TYPING CHART & DESIGN SYMBOLS
LEVEL 20	LEVEL 20	PROPOSED SIGN PANELS, STRUCTURES & LUMINAIRES
LEVEL 21	LEVEL 21	PROPOSED DELINEATORS
LEVEL 22	LEVEL 22	PROPOSED HIGH MAST LIGHTING STANDARDS, OFFSET LIGHTING STANDARDS & CONVENTIONAL LIGHTING STANDARDS
LEVEL 23	LEVEL 23	PROPOSED ELECTRICAL SERVICE, METER BOXES & SAFETY SWITCHES
LEVEL 24	LEVEL 24	PROPOSED PAVEMENT MARKINGS & PAVEMENT MARKERS
LEVEL 25 & 26	LEVEL 25 & 26	NOT ASSIGNED
LEVEL 27	LEVEL 27	PROPOSED CONDUIT TEST & CONDUCTOR CABLE TEST
LEVEL 28	LEVEL 28	LABELING OF PROPOSED SIGNAL EQUIPMENT
LEVEL 29	LEVEL 29	LABELING OF PROPOSED SIGNAL CHARTS & CHANGES
LEVEL 30	LEVEL 30	LABELING OF PROPOSED SIGN STRUCTURES
LEVEL 31	LEVEL 31	LABELING OF PROPOSED DELINEATORS
LEVEL 32	LEVEL 32	LABELING OF PROPOSED LIGHTING STANDARDS
LEVEL 33	LEVEL 33	BASE PLAN SHEET, SCALE BAR, NORTH ARROW, ETC.

## SURVEY

NOTE: Survey Utility Information will be in a separate file.  
 Digital Terrain Model information will be separate files.

LEVEL 1	LEVEL 1	BASELINE & SUBTANGENTS
LEVEL 2	LEVEL 2	BRIDGES
LEVEL 3	LEVEL 3	EDGE OF PAVEMENT & PRIVATE ENTRANCES
LEVEL 4	LEVEL 4	CURB AND GUTTER
LEVEL 5	LEVEL 5	CURB
LEVEL 6	LEVEL 6	PAVED SHOULDER
LEVEL 7	LEVEL 7	SIDEWALK AND/OR BICYCLE TRAIL
LEVEL 8	LEVEL 8	NOT ASSIGNED
LEVEL 9	LEVEL 9	NOT ASSIGNED
LEVEL 10	LEVEL 10	STEPS
LEVEL 11	LEVEL 11	FENCES
LEVEL 12	LEVEL 12	DIRECTIONAL ARROWS, PAVEMENT STRIPING & FLUSH, ROAD DELINEATION
LEVEL 13	LEVEL 13	RETAINING WALLS
LEVEL 14	LEVEL 14	CONCRETE SLABS, COLUMNS, SIGNS, POSTS
LEVEL 15	LEVEL 15	NOT ASSIGNED

LEVEL 16	LEVEL 16	QUADRANT & JERSEY BARRIER
LEVEL 17	LEVEL 17	NOT ASSIGNED
LEVEL 18	LEVEL 18	PAVED DITCHES
LEVEL 19	LEVEL 19	RESERVED FOR MISC. DRAIN FEEDS TO BE PLACED BY ROAD DESIGNERS
LEVEL 20	LEVEL 20	RAUROADS, ETC.
LEVEL 21	LEVEL 21	NOT ASSIGNED
LEVEL 22	LEVEL 22	LIMITS OF CONSTRUCTION
LEVEL 23	LEVEL 23	RIGHT-OF-WAY TYPICAL PLACEMENTS
LEVEL 24	LEVEL 24	NOT ASSIGNED
LEVEL 25 - 30	LEVEL 25 - 30	NOT ASSIGNED
LEVEL 31 - 34	LEVEL 31 - 34	ANNOTATION FOR LEVELS 1 - 34
LEVEL 35 - 40	LEVEL 35 - 40	NOT ASSIGNED
LEVEL 41	LEVEL 41	BASE PLAN SHEET, SCALE BAR, NORTH ARROW, BENCH LINES
LEVEL 42	LEVEL 42	NOT ASSIGNED
LEVEL 43	LEVEL 43	NOT ASSIGNED

## TRAFFIC ENGINEERING

LEVEL 1	LEVEL 1	PIPES FROM #10 TO #40
LEVEL 2	LEVEL 2	PIPES 48 AND LARGER
LEVEL 3	LEVEL 3	STANDARD BOX CULVERTS
LEVEL 4	LEVEL 4	END WALLS
LEVEL 5	LEVEL 5	END SECTIONS
LEVEL 6	LEVEL 6	PAVED DITCHES AND FLUMES
LEVEL 7	LEVEL 7	EXISTING DRAINAGE, PUMP, SPILLWAY AND SPRING BODIES
LEVEL 8	LEVEL 8	MANHOLES AND JUNCTION BOXES
LEVEL 9	LEVEL 9	DROP INLETS D-10'S AND D-9 SERIES
LEVEL 10	LEVEL 10	DROP INLETS D-E SERIES
LEVEL 11	LEVEL 11	DROP INLETS D-4 SERIES
LEVEL 12	LEVEL 12	DROP INLETS D-4 SERIES
LEVEL 13	LEVEL 13	DROP INLETS D-4 SERIES
LEVEL 14	LEVEL 14	DROP INLETS D-4 SERIES
LEVEL 15	LEVEL 15	DROP INLETS D-4 SERIES

LEVEL 16	LEVEL 16	DROP INLETS D-10 SERIES
LEVEL 17	LEVEL 17	SPECIAL DESIGN FEEDS (END WALLS, ETC.)
LEVEL 18	LEVEL 18	EROSION CONTROL DITCH ITEMS (E-C, E-EC, E-LEC)
LEVEL 19	LEVEL 19	EROSION CONTROL STONE (E-C, L-APP, CHECK DAMS)
LEVEL 20	LEVEL 20	EROSION CONTROL FEEDS (TYPE 1, TYPE 2, TYPE 3)
LEVEL 21	LEVEL 21	MISCELLANEOUS EAS FEEDS
LEVEL 22	LEVEL 22	SIGN BASH FEEDS (SIGN, ROAD FEEDS, ETC.)
LEVEL 23	LEVEL 23	SIGN BASH MISCELLANEOUS FEEDS
LEVEL 24	LEVEL 24	UNDERDRAINS (E-C, E-EC, L-UD, E-LEC)
LEVEL 25	LEVEL 25	UNDERDRAIN OUTLET PIPE AND E-LEC END SECTIONS
LEVEL 26	LEVEL 26	TYPICAL DITCH DETAILS
LEVEL 27	LEVEL 27	NOT ASSIGNED
LEVEL 28 - 30	LEVEL 28 - 30	ANNOTATION FOR LEVELS 1 - 30
LEVEL 31 - 40	LEVEL 31 - 40	SHEET, NORTH ARROW, ETC.
LEVEL 41	LEVEL 41	NOT ASSIGNED
LEVEL 42	LEVEL 42	PROJECT NOTES
LEVEL 43	LEVEL 43	PROJECT NOTES

## DESIGN

## HYDRAULICS - DRAINAGE

REV. 6/04  
 SPECIAL DESIGN SECTION  
 DRAWING NO. 95

PLAN NO.	PROJECT	FILE NO.	SHEET NO.