

# GENERAL NOTES

**TRAFFIC CONTROL STANDARD CONSTRUCTION DRAWINGS:**

REFERENCES TO SUPPLEMENTAL SPECIFICATIONS 857, 858, 861, 958, 961 AND 957 ON THE TRAFFIC CONTROL STANDARD CONSTRUCTION DRAWINGS SHALL BE CONSIDERED TO READ AS RESPECTIVE REFERENCES TO ITEMS 630, 631, 633, 730, 731 AND 733.

**CONTINGENCY QUANTITIES:**

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK LISTED IN THE GENERAL SUMMARY FOR ITEMS DESIGNATED BY THE PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEER'S DISCRETION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

**SEEDING AND MULCHING:**

ESTIMATED QUANTITIES OF SEEDING AND MULCHING HAVE BEEN PROVIDED IN THE GENERAL SUMMARY FOR GRASS AREAS DAMAGED DURING THE INSTALLATION AND REMOVAL OF STORM INLETS, CONCRETE MEDIANS, 6" UNDERDRAINS AND CONCRETE CURBS.

THE FOLLOWING QUANTITIES ARE INCLUDED IN THE GENERAL SUMMARY AND ARE TO BE USED AS DIRECTED BY THE ENGINEER.

ITEM 659	SEEDING AND MULCHING	8,500 SY
ITEM 659	COMMERCIAL FERTILIZER	0.8 TON
ITEM 659	AGRICULTURAL LIMING	3.8 TON

**WATERING PERMANENT SEEDED AREAS:**

THE FOLLOWING ESTIMATED QUANTITY IS TO BE USED AS DIRECTED BY THE ENGINEER TO PROMOTE GROWTH AND TO CARE FOR THE PERMANENT SEEDED AREAS, AS PER 659.09:

ITEM 659	WATER	18 M. GAL.
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**GUARDRAIL REPLACEMENT:**

NO HAZARD SHALL BE LEFT UNPROTECTED EXCEPT FOR THE ACTUAL TIME NECESSARY TO REMOVE, GRADE AND REINSTALL GUARDRAIL IN A CONTINUOUS OPERATION. THE REMOVAL OF ALL GUARDRAIL SHALL AT ALL TIMES BE AS DIRECTED BY THE ENGINEER. NO GUARDRAIL SHALL BE REMOVED UNTIL THE REPLACEMENT MATERIAL IS ON THE SITE AND READY FOR INSTALLATION. FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE DEEMED SUFFICIENT CAUSE TO ORDER WORK SUSPENDED ON THIS PROJECT UNTIL SUCH TIME THAT THE ENGINEER IS ASSURED OF SAID COMPLIANCE.

BARRIER REFLECTORS, TYPE A, SHALL BE MOUNTED ON GUARDRAIL.

BARRIER REFLECTORS, TYPE B, SHALL BE MOUNTED ON BRIDGE PARAPETS.

THE FOLLOWING ESTIMATED QUANTITIES ARE INCLUDED IN THE GENERAL SUMMARY AND ARE TO BE USED AS DIRECTED BY THE ENGINEER FOR REPLACING DAMAGED GUARDRAIL AND POSTS AS DIRECTED BY THE ENGINEER.

ITEM 202	GUARDRAIL REMOVED	100 LIN. FT.
ITEM 606	GUARDRAIL, TYPE 5	100 LIN. FT.
ITEM 802	BARRIER REFLECTOR, TYPE A	80 EACH
ITEM 802	BARRIER REFLECTOR, TYPE B	28 EACH

**REVIEW OF DRAINAGE FACILITIES:**

BEFORE ANY WORK IS STARTED ON THE PROJECT, AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF THE EXISTING SEWERS WITHIN THE WORK LIMITS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTIONS SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE PERTINENT 603 CONDUIT ITEMS OF THE CONTRACT.

**CONNECTION TO EXISTING PIPE:**

WHERE THE PLANS PROVIDE FOR PROPOSED CONDUIT TO BE CONNECTED TO, OR TO CROSS EITHER OVER OR UNDER AN EXISTING SEWER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING PIPE BOTH AS TO LINE AND GRADE BEFORE HE STARTS TO LAY THE PROPOSED CONDUIT.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT 603 CONDUIT ITEMS.

**ITEM 605 - AGGREGATE DRAINS:**

AGGREGATE DRAINS SHALL BE PLACED AT FIFTY (50) FOOT INTERVALS STAGGERED BETWEEN THE EXISTING AGGREGATE DRAINS ON EACH SIDE OF NORMAL CROWNED SECTIONS AND AT TWENTY-FIVE (25) FOOT INTERVALS ON THE LOW SIDE ONLY OF SUPERELEVATED SECTIONS, EXCEPT WHERE ITEM 605 PIPE UNDERDRAINS HAVE BEEN PROVIDED.

AGGREGATE DRAINS ADJACENT TO REINFORCED CONCRETE PAVEMENT SHALL BE PLACED ON BOTH SIDES OF NORMAL CROSS SECTIONS AND ON THE LOW SIDE ONLY OF SUPERELEVATED SECTIONS AT THE MIDPOINT OF EACH EXISTING CONCRETE SLAB (40 FOOT SPAN) AND AT EACH TRAVERSE JOINT AT THE LOW END OF EACH RIGID REPLACEMENT SECTION.

AN AGGREGATE DRAIN SHALL BE PLACED AT THE LOW POINT OF EACH SAG VERTICAL CURVE.

QUANTITIES FOR ITEM 605 - AGGREGATE DRAIN ARE ESTIMATED IN THE CALCULATIONS (SEE SHEET 12) AND ARE INCLUDED IN THE GENERAL SUMMARY. THE FOLLOWING ESTIMATED QUANTITIES ARE INCLUDED IN THE GENERAL SUMMARY AND ARE TO BE USED FOR ITEM 605 - AGGREGATE DRAIN - 300 LIN. FT. TO BE USED AS DIRECTED BY THE ENGINEER.

**ITEM SPECIAL - SAWING AND SEALING ASPHALT CONCRETE PAVEMENT JOINTS 705.04:**

ASPHALT CONCRETE OVER ALL TRANSVERSE JOINTS IN THE AREA OF CONCRETE PAVEMENT OVERLAY SHALL BE SAW CUT AND SEALED ACCORDING TO THE NOTE IN THE PROPOSAL, AND DETAIL ON SH 17. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THIS PURPOSE.

ITEM	DESCRIPTION	QUANTITY
SPECIAL	SAWING AND SEALING ASPHALT CONCRETE PAVEMENT JOINTS, 705.04	1,300 LIN. FT.

**ITEM 253 - PAVEMENT REPAIR:**

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THIS ITEM SHALL CONSIST OF REPAIRING EXISTING LOCATIONS EXHIBITING EVIDENCE OF BASE FAILURE AND PLACING 12 INCHES± OF 301 BITUMINOUS AGGREGATE BASE. THE MAXIMUM COMPACTED DEPTH OF ANY ONE LAYER SHALL BE 6 INCHES. THE CUBIC YARDAGE MEASURED SHALL BE PAID FOR AT THE UNIT PRICE BID PER SQUARE YARD FOR ITEM 253 - PAVEMENT REPAIR AND PRICE AND PAYMENT SHALL CONSTITUTE FULL COMPENSATION FOR REMOVAL AND DISPOSAL OF ALL MATERIAL AND FURNISHING OF ALL LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 253	PAVEMENT REPAIR	250 SY
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**FULL DEPTH RIGID PAVEMENT REMOVAL AND RIGID REPLACEMENT:**

FULL DEPTH RIGID PAVEMENT REMOVAL AND RIGID REPLACEMENT (STA 246+75 TO STA 252+32.07) SHALL BE PERFORMED IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 803 AND STANDARD CONSTRUCTION DRAWING BP-13.

ALL REPAIRS SHALL BE TYPE-T AS PER BP-13, FOR REPAIR LENGTHS LESS THAN 10 FEET. REPAIR LENGTHS 10 FEET OR GREATER SHALL BE TYPE-Y REPAIRS. IN NO CASE SHALL THE LENGTH BETWEEN DOWEL OR TIE BARS IN A REPAIR EXCEED 30 INCHES.

THE FOLLOWING ESTIMATED QUANTITIES ARE INCLUDED IN THE GENERAL SUMMARY AND ARE TO BE USED AS DIRECTED BY THE ENGINEER.

ITEM	DESCRIPTION	QUANTITY
ITEM 255	FULL DEPTH RIGID PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS FS	380 SY
ITEM 255	FULL DEPTH PAVEMENT SAWING	1,140 L.F.

**ITEM 202 - RAISED PAVEMENT MARKERS REMOVED**

RAISED PAVEMENT MARKERS LOCATED BETWEEN STA 238+48 TO STA 247+85 SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. ALL COSTS TO BE INCLUDED IN THE CONTRACT PRICE BID PER EACH FOR ITEM 202 - RAISED PAVEMENT MARKERS REMOVED.

ITEM 202	RAISED PAVEMENT MARKER REMOVED	160 EACH
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**ITEM 604 - INLETS:**

THE COST FOR ALL INLETS TO BE REMOVED AND REPLACED WITH A NEW INLET AT THE SAME LOCATION SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 604 - INLETS.

ELEVATIONS LISTED ON THE PLAN SHEETS (PROFILE VIEW) FOR PROPOSED INLETS REFER TO THE PROPOSED INLET WINDOW FLOW LINE ELEVATION AT THE CENTER OF THE INLET. THIS ELEVATION TAKES INTO ACCOUNT THE 2" DEPRESSION FROM THE TYPICAL GUTTER ELEVATION.

**ITEM(S) 604 - INLET(S) VARIOUS, AS PER PLAN:**

ALL REQUIRED REINFORCING STEEL AS LISTED ON THE STANDARD CONSTRUCTION DRAWINGS (OR AS MODIFIED) SHALL BE EPOXY-COATED IN ACCORDANCE WITH 709.00 OR 709.14 AND PLACED AS PER 509.10. ADDITIONAL PRECAST-REQUIRED REINFORCEMENT FOR "BASE" SECTIONS ARE NOT SUBJECT TO THIS REQUIREMENT.

ALL COSTS OF THIS TREATMENT SHALL BE INCLUDED IN THE COSTS OF THESE ITEMS.

**ITEM(S) 604 - INLET(S) VARIOUS - RECONSTRUCTED TO GRADE, AS PER PLAN**  
**ITEM(S) 604 - INLET(S) VARIOUS - AS PER PLAN**

INLETS LOCATED IN CONCRETE MEDIAN SECTIONS WHERE CURB REVEAL EXCEEDS 6" SHALL BE MODIFIED SO THAT THE TOP OF INLET IS FLUSH WITH THE TOP OF MEDIAN. THIS WILL REQUIRE AN INCREASE IN SIDE OPENING SIZE AS NECESSARY TO ACCOMMODATE THE INCREASE CURB REVEAL, WHILE MAINTAINING AN 8" INLET TOP SLAB THICKNESS. SEE DETAIL A - SHEET 17 - NOTE 2 ONLY. ALL COSTS OF THESE MODIFICATIONS SHALL BE INCLUDED IN THE COST OF THESE ITEMS.

**ITEM 604 INLET, 1-2A-6, RECONSTRUCTED TO GRADE, AS PER PLAN**  
**ITEM 604 INLET, 1-21-8, RECONSTRUCTED TO GRADE, AS PER PLAN**

THIS ITEM SHALL CONSIST OF RECONSTRUCTING TO GRADE EXISTING INLET BASINS OF THE VARIOUS SIZES NOTED AND AT THE LOCATIONS SHOWN ON THE PLANS.

WORK SHALL INCLUDE REMOVAL AND DISPOSAL OF EXISTING PRECAST CONCRETE "TOP" SECTION, REMOVAL OF EXISTING MORTAR FROM THE TOP OF THE SUMP WALLS, REPAIRING AND RECOMPACTING THE EXISTING SAND BEDDING, FURNISHING AND PLACING THE NEW PRECAST CONCRETE "TOP" SECTION AND FURNISHING AND PLACING NEW 1/2" PREMOULDED EXPANSION MATERIAL IN ACCORDANCE WITH ITEM 705.03. ALL REINFORCING STEEL FOR NEW TOP SECTIONS SHALL BE EPOXY COATED AS SPECIFIED FOR NEW INLETS IN THE NOTE ON THIS SHEET. THE CONTRACTOR SHALL EXERCISE CARE WHILE REMOVING THE EXISTING PRECAST CONCRETE "TOP" SECTION TO PREVENT DAMAGE TO ABUTTING CURBS AND PAVEMENT. ANY DAMAGE TO CURBS AND/OR PAVEMENT AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE STATE.

THIS WORK SHALL ALSO INCLUDE EXTRA PAVEMENT PLANING TO ACHIEVE A 2" DEPRESSION OF THE NEW PAVEMENT SURFACE AT THE SIDE OPENING OF THE INLET, AS SHOWN IN THE STANDARD CONSTRUCTION DRAWING I-2A.

**ITEM 623 - CONSTRUCTION LAYOUT STAKES, AS PER PLAN:**

IN ADDITION TO THE REQUIREMENTS OF ITEM 623, THE CONTRACTOR SHALL PROVIDE FIELD SURVEY FOR 75 FOOT ASPHALT TRANSITIONS. (SEE PLAN SHEETS). SAID SURVEY SHALL CONSIST OF ELEVATIONS TAKEN AT THE BRIDGE EXPANSION JOINT (WHERE APPLICABLE) AND EXTENDING 75 FEET ONTO THE ROADWAY. ELEVATIONS AFTER RESURFACING SHALL BE TAKEN ALONG EACH EDGE LINE AND LANE LINE AND SHALL BE TAKEN AT THE FOLLOWING DISTANCES: 0 FEET, 5 FEET, 10 FEET, 25 FEET, 50 FEET, 65 FEET, 70 FEET AND 75 FEET. THE CONTRACTOR SHALL PLOT THESE AT EACH LOCATION AT A SCALE OF 1 INCH EQUALS 10 FEET HORIZONTALLY AND 1 INCH EQUALS 2 FEET VERTICALLY. THIS SURVEY SHALL BE DONE AND THE PLOTTED RESULTS GIVEN TO THE ENGINEER AS SOON AS POSSIBLE AFTER THE PLACEMENT OF THE SURFACE COURSE.

**TEMPORARY SOIL EROSION AND SEDIMENT CONTROL:**

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER, FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES:

ITEM 207	TEMPORARY SEEDING AND MULCHING	1700 SQ. YD.
ITEM 207	STRAW OR HAY BALES	56 EACH
ITEM 659	COMMERCIAL FERTILIZER	0.1 TON
ITEM 659	REPAIR SEEDING AND MULCHING	450 SQ. YD.
ITEM 659	WATER	4 M. GAL.

**CONNECTIONS BETWEEN EXISTING AND PROPOSED GUARDRAIL:**

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A "BEAM RAIL SPLICE" AS SHOWN ON STANDARD DRAWING GR-1. PAYMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE GUARDRAIL RUNS.

**ITEM 310 - SUBBASE TYPE 1, GRADING A, AS PER PLAN**

MATERIALS FURNISHED FOR THIS ITEM SHALL EXCLUDE ALL SLAG, EXCEPT GRANULATED SLAG OR CRUSHED AIR-COOLED BLAST FURNACE SLAG.