ITEM SPECIAL – SNAP FILL
MAINTENANCE OF TRAFFIC WILL REQUIRE THE EXISTING "SNAPs" TO BE TEMPORARILY FILLED IN THE LEFT AND RIGHT SHOULDERS. PAYMENT FOR THIS ITEM SHALL INCLUDE THOROUGHLY CLEAN THE SHOULDER AND SNAP AREA TO REMOVE ALL LOOSE DEBRIS; APPLY NON–TRACKING TACK COAT THE WIDTH OF THE SNAPs; AND PLACING ENOUGH SP 404–SURFACE COURSE MATERIAL DOWN TO ENSURE THAT THE SNAP'S ARE FILLED IN AND THE MATERIAL IS SATISFACTORILY COMPACTED IN PLACE. IF THE CONTRACTOR CHOOSES TO UTILIZE A SAND–ASPHALT MIX TO COMPLETELY FILL THE IN SNAPs, THE CONTRACTOR SHALL SUBMIT THE MIX DESIGN FOR REVIEW AND APPROVAL PRIOR TO USE.

IT IS ANTICIPATED THAT THE CONTRACTOR WILL PERFORM THIS WORK PRIOR TO COMMENCING PHASE 1 WORK. ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NEEDED TO COMPLETE THE ABOVE MENTIONED WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM SPECIAL – "SNAP" FILL.

ITEM 617/SP 627
THE FOLLOWING ITEMS HAVE BEEN INCLUDED IN THE ESTIMATED QUANTITIES FOR USE, OR AS DIRECTED BY THE CHIEF ENGINEER, FOR ADDING NEW MATERIAL UNDER GUARDRAIL AND ALONG SELECTED ROADWAY LOCATIONS TO BRING THE AREA UP TO GRADE AND SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THE ITEM:

ITEM 617–SHOULDER PREPARATION	23,664 SQ.YD.
ITEM 617–COMPACTED AGGREGATE	1,972 CU.YD.
ITEM 617–WATER	1 50 M.GAL.
ITEM SP 627–STONE SHOULDER PROTECTION	{9,354 800} CU.YD.
ITEM SPECIAL–REGRADING UNDER GUARDRAIL	9,354 SQ. YD. (*)

THE USE OF 57'S IN PLACE OF 67'S FOR SP 627 WILL BE PERMITTED FOR THIS PROJECT ONLY.

(*)– ITEM INCLUDED TO BE USED, AS DIRECTED BY THE CHIEF ENGINEER, TO LEVEL AREAS UNDER EXISTING AND PROPOSED GUARDRAIL LOCATIONS WHERE STONE SHOULDER PROTECTION IS MORE THAN 1" ABOVE THE EDGE OF THE SHOULDER PAVEMENT. ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NEEDED TO LOWER THE STONE SHOULDER PROTECTION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE ITEM. ALL LOCATIONS WILL BE DELINEATED BY THE CHIEF ENGINEER.

ITEM 202 – GUARDRAIL REMOVED FOR STORAGE
A CONTINGENCY QUANTITY OF 1000 FOOT IS INCLUDED IN THE ESTIMATED QUANTITIES TO BE USED AS DIRECTED BY THE CHIEF ENGINEER FOR SALVAGING GUARDRAIL, BLOCKS, END TERMINALS, AND POSTS THAT ARE IN GOOD CONDITION. THE GUARDRAIL SHALL BE STORED AT THE SWANTON MAINTENANCE BUILDING FOR OTIC FORCES TO TAKE POSSESSION OF.

ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NEEDED FOR THE ABOVE MENTIONED WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE ITEM.

ITEM 897 – PAVEMENT PLANING, ASPHALT CONCRETE
A CONTINGENCY QUANTITY OF ITEM 897 HAS BEEN ADDED TO THE PLANS. THE INTENT OF THE PLANING IS TO SMOOTH THE COMPLETED FULL DEPTH PAVEMENT REPAIRS WITHIN 24 HOURS OF THE COMPLETION OF THE FULL DEPTH PAVEMENT REPAIR. THE CONTRACTOR SHALL PLANS ITS OPERATIONS ACCORDINGLY.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, INCIDENTALS AND MATERIALS NECESSARY TO COMPLETE THE ABOVE WORK. PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER SQ. YD. OF ITEM 897 – PAVEMENT PLANING, ASPHALT CONCRETE.

ITEM 614 – ASPHALT CONCRETE FOR MAINTAINING TRAFFIC, AS PER PLAN
A CONTINGENCY ITEM OF 200 CU.YD. HAS BEEN ADDED TO THE PLANS FOR REPAIR OF FULL DEPTH REPAIRS AND/OR THE EXISTING PAVEMENT, ADJACENT THE FULL DEPTH PAVEMENT REPAIR THAT EXHIBIT DEFORMATIONS (I.E. POTHOLES, RUTTING..). THE MATERIAL SUPPLIES SHALL COMPLY WITH THE REQUIREMENTS OF CMS 614.13.

PAYMENT FOR THIS ITEM SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM. THIS ITEM SHALL BE PAID FOR AT THE UNIT BID PRICE FOR ITEM 614–ASPHALT CONCRETE FOR MAINTAINING TRAFFIC, AS PER PLAN.

SPECIAL – EXISTING AGGREGATE DRAIN OUTLET CLEAN OUT
THE FOLLOWING ITEM HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES FOR USE IN UNCOVERING AND EXPOSING EXISTING TYPE II AGGREGATE DRAIN OUTLETS ON THE RIGHT/OUTSIDE SHOULDER ONLY. THE CONTRACTOR SHALL SUBMIT, FOR APPROVAL, ITS PROPOSED METHOD FOR PERFORMING THE WORK.

THE APPROXIMATE LOCATION OF EXISTING TYPE II AGGREGATE DRAIN OUTLET IS AT EACH EXISTING PAVEMENT JOINT WHICH SHOULD BE SPACED AT APPROXIMATELY 61'–6" O/C. FOR ESTIMATING PURPOSES, THE WORK TO BE PERFORMED SHALL INCLUDE THE FOLLOWING: STARTING 4' FROM THE OUTSIDE EDGE OF THE SHOULDER, REMOVE UP TO 1' IN DEPTH OF SLOPE MATERIAL, REMOVE AT A WIDTH OF 3', REMOVE AT A LENGTH OF APPROXIMATELY 20', AND ALLOW TO DRAIN UNTIL WATER IS NO LONGER FLOWING. PLACE NEW MATERIAL IN EXCAVATED AREA TO RESTORE OUTLET USING MATERIAL IN ACCORDANCE WITH SP 605.

CONTRACTOR SHALL DISPOSE OF ALL EXCAVATED MATERIAL IN ACCORDANCE WITH SP 105.

ALL AREAS ARE TO BE REVIEWED BY THE CHIEF ENGINEER AND CONTRACTOR TO DETERMINE APPROXIMATE LOCATION PRIOR TO COMMENCING ANY APPROVED WORK. THE CHIEF ENGINEER MAY ADJUST NUMBER, SIZE, SPACING, AND/OR LOCATION AFTER REVIEW TO ENSURE PLAN INTENT IS MET. NO WORK WILL BE PERFORMED OVER AN EXISTING ACTIVE UTILITY. ALL REVIEW AND LAYOUT WORK, BY THE CONTRACTOR, SHALL BE CONSIDERED INCIDENTAL TO SP 623.

ITEM SPECIAL – EXISTING AGGREGATE DRAIN OUTLET CLEAN OUT, SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE MENTIONED WORK:

ITEM SPECIAL – AGGREGATE DRAIN OUTLET CLEAN OUT 5,200 SQ.YD.

ITEM SPECIAL – PATCHING CONCRETE BRIDGE DECKS, TYPE B
THIS ITEM SHALL CONSIST OF FURNISHING THE NECESSARY LABOR, MATERIALS, AND EQUIPMENT TO REPAIR, AT THE DIRECTION OF THE CHIEF ENGINEER, THE WEARING SURFACE OF CONCRETE BRIDGE DECKS AND ABUTMENT SLABS, INCLUDING THE REMOVAL OF ALL LOOSE AND UNSOUND CONCRETE, BITUMINOUS PATCHES, SURFACE PREPARATION, BONDING COAT AND THE MIXING, PLACING, FINISHING, AND CURING OF THE MORTAR OR CONCRETE PATCHES. THIS ITEM SHALL BE USED AT AREAS DESIGNATED IN THE PLAN OR AS DIRECTED BY THE ENGINEER TO REPAIR ISOLATED POTHOLES AND SCALING OF THE WEARING SURFACE ALONG JOINT ARMOUR, ETC.

MATERIALS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
- QUICK SETTING CONCRETE MORTAR – TYPE 1 OR 2, SHALL COMPLY WITH 705.21.
- CURING MATERIALS – TYPE B PATCHES SHALL COMPLY WITH 705.07.
- MATERIALS SHALL BE LISTED ON THE CURRENT ODOT QUALIFIED PRODUCTS LIST.

REMOVAL OF UNSOUND CONCRETE:
THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIAL, EQUIPMENT, LABOR, AND INCIDENTALS TO PERMIT SOUNDING, INSPECTION OF THE DECK AND ABUTMENT SLAB WEARING SURFACES. THE CONTRACTOR'S SUPERINTENDENT SHALL ACCOMPANY THE CHIEF ENGINEER IN MAKING AN EXAMINATION TO MARK THE AREAS OF REPAIRS TO BE MADE. SOUNDING MAY HAVE TO BE DELAYED UNTIL THE DECK IS SUFFICIENTLY DRY TO PERMIT DETECTION OF ALL AREAS OF POTENTIAL DELAMINATION.

THE PERIMETER OF ALL REMOVAL AREAS SHALL BE SAW CUT TO A DEPTH OF 1 INCH TO PRODUCE A VERTICAL OR SLIGHTLY UNDERCUT FACE. ADDITIONAL SAW CUTS MAY BE REQUIRED TO FACILITATE REMOVAL.

ALL UNSOUND CONCRETE INCLUDING ALL PATCHES OTHER THAN SOUND PORTLAND CEMENT CONCRETE AND ALL LOOSE AND DISINTEGRATED CONCRETE, SHALL BE REMOVED. THE UNSOUND CONCRETE MAY BE REMOVED BY CHINPPING OR HAND DRESSING. CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 35 POUND CLASS AND SHALL BE OPERATED AT AN ANGLE OF LESS THAN 45 DEGREES MEASURED FROM THE SURFACE OF THE DECK. CONCRETE SHALL BE REMOVED IN A MANNER THAT PREVENTS CUTTING, ELONGATING, OR DAMAGING REINFORCING STEEL. WHERE THE BOND BETWEEN THE CONCRETE AND A PRIMARY REINFORCING BAR HAS BEEN DESTROYED, OR WHERE MORE THAN ONE HALF OF THE PERIPHERY OF SUCH A BAR HAS BEEN EXPOSED THE ADJACENT CONCRETE SHALL BE REMOVED TO A DEPTH THAT WILL PROVIDE A MINIMUM 3/4 INCH CLEARANCE AROUND THE BAR EXCEPT WHERE OTHER REINFORCING BARS MAKE THIS IMPRACTICAL. REINFORCEMENT WHICH HAS BECOME LOOSE SHALL BE ADEQUATELY SUPPORTED AND TIED BACK INTO PLACE.

AFTER COMPLETION OF THE SECONDARY REMOVAL OPERATIONS, RE–SOUND THE DECK TO ENSURE THAT ONLY SOUND CONCRETE REMAINS.

MINIMIZE CONSTRUCTION JOINTS. CONSTRUCTION JOINTS SHALL ONLY BE PLACED ON THE PERIMETER OF THE REMOVAL AREAS.

SURFACE PREPARATION:
CLEANING SHALL CLOSELY PRECEDE APPLICATION OF THE BONDING GROUT AND/OR THE PATCHING MATERIAL. THE SURFACE TO BE PATCHED AT THE EXPOSED REINFORCING STEEL SHALL BE THOROUGHLY CLEANED BY SANDBLASTING FOLLOWED BY AN AIR BLAST. IT MAY BE NECESSARY TO USE HAND TOOLS TO REMOVE SCALE FROM THE REINFORCING STEEL.

FOR TYPE B PATCHES, THE PREPARED SURFACE SHALL BE SURFACE DRY. ANY ADDITIONAL SURFACE PREPARATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR THE PATCHING MATERIAL WHICH IS USED.

BONDING GROUT:
TYPE B PATCHES SHALL BE BONDED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

PATCHING:
TYPE B PATCHING MATERIAL SHALL BE MADE USING QUICK SETTING CONCRETE MORTAR, TYPE 1 OR 2, 705.21. THE MORTAR SHALL BE MIXED AND PLACED AS PER MANUFACTURER'S RECOMMENDATIONS. COURSE AGGREGATE MAY BE ADDED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS WHEN THE DEPTH OF THE PATCH EXCEEDS 1 INCH.

CURING:
TYPE B PATCHES SHALL BE CURED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

MEASUREMENT AND PAYMENT:
THE ACCEPTED QUANTITIES FOR THE COMPLETED WORK AS DESCRIBED WILL BE MEASURED AS THE ACTUAL AREA OF BRIDGE DECK REPAIRED, IRRESPECTIVE OF DEPTH. THE QUANTITY MEASURED SHALL INCLUDE ALL ACCESS, LABOR, TOOLS, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY TO PERFORM THE WORK AND SHALL BE PAID FOR UNDER THE FOLLOWING CONTRACT ITEM (PAY ITEM):

SPECIAL – PATCHING CONCRETE BRIDGE DECKS, TYPE B 50 SQ.YD.

FINAL LOCATION OF PATCHING WILL BE PROVIDED TO THE CONTRACTOR BY THE CHIEF ENGINEER PRIOR TO COMMENCING THE PROJECT.

ITEM SP 611 – CATCH BASIN ADJUSTMENTS, GRATES AND CASTINGS, AS PER PLAN
THE FOLLOWING ITEMS HAVE BEEN INCLUDED IN THE ESTIMATED QUANTITIES FOR USE IN ADJUSTING, REPAIRING AND/OR REBUILDING SHOULDER CATCH BASINS. FOR CATCH BASINS, ADJUSTED TO GRADE, THE CONTRACTOR SHALL REBUILD FROM THE TOP OF PRECAST STRUCTURE TO THE BOTTOM OF THE CASTING AT THE EXISTING GRADE. THE USE OF BRICK TO REBUILD THE CATCH BASIN SHALL BE PROHIBITED. THE CONTRACTOR SHALL SAWCUT PAVEMENT AROUND THE EXISTING CATCH BASIN, A MINIMUM OF 12" AROUND THE CASTING, THEN REMOVE THE CASTING AND SAWCUT ASPHALT CONCRETE. THE CONTRACTOR SHALL FORM AND POUR, USING QC–1 CONCRETE, TO REBUILD THE CATCH BASIN. TO SECURE CONCRETE TO THE EXISTING PRECAST STRUCTURE, THE CONTRACTOR SHALL INSTALL #4 DOWEL BARS, SPACED 12" O/C, 3 PER SIDE UNLESS DIRECTED OTHERWISE BY THE CHIEF ENGINEER, IN ACCORDANCE WITH CMS 509 AND 510. THE DOWEL BARS SHALL BE EMBEDED AT LEAST 6" INTO THE EXISTING PRECAST STRUCTURE AND SECURED WITH NON SHRINK NON METALIC GROUT THAT CONFORMS TO 705.20. THE CONTRACTOR SHALL USE FORMS, SIZED TO CONFORM TO THE INTERIOR OF THE CATCH BASIN THAT WILL ENSURE A SMOOTH INTERIOR FINISH. ALL OTHER CONCRETE SURFACES SHALL HAVE A BROOMED FINISH. AFTER THE CASTING IS SET TO THE FINAL GRADE, THE AREA AROUND THE ADJUSTED CATCH BASIN CASTING SHALL BE BACK FILLED WITH QC–1 CONCRETE TO THE EXISTING SURFACE. FOR CATCH BASINS ADJUSTED TO GRADE WITH DISTANCES FROM THE TOP OF THE PRECAST STRUCTURE TO THE BOTTOM OF THE CASTING THAT ARE LESS THAN 4", THE SAME METHOD SHALL BE USED TO REBUILD THE CATCH BASINS TO GRADE, EXCEPT THAT NO FORMS OR DOWELS ARE REQUIRED.

THE EXISTING GRATE AND CASTING SHALL BE REUSED UNLESS DIRECTED OTHERWISE BY THE CHIEF ENGINEER. A CONTINGENCY QUANTITY OF CATCH BASIN GRATE AND CASTING, AS PER PLAN, HAS BEEN INCLUDED FOR USE AS DIRECTED BY THE CHIEF ENGINEER. THE REPLACEMENT GRATE AND CASTING SUPPLIED SHALL BE HEAVY DUTY AND MATCH EXISTING.

ALL SAWCUTTING, CONCRETE, DOWELS, DOWEL HOLES, GROUT, LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE MENTIONED WORK SHALL BE INCLUDED IN THE BID PRICE PER ITEM:

ITEM SP 611 – CATCH BASIN, RECONSTRUCTED TO GRADE, LESS THAN 4", AS PER PLAN
ITEM SP 611 – CATCH BASIN, RECONSTRUCTED TO GRADE, 4" –12", AS PER PLAN
ITEM SP 611 – CATCH BASIN, RECONSTRUCTED TO GRADE, GREATER THAN 12", AS PER PLAN
ITEM SP 611 – CATCH BASIN GRATE AND CASTING, AS PER PLAN

OTIC STANDARD DRAWINGS CB–1, CB–2, CB–3, CB–4, AND CB–5 ARE PROVIDED FOR INFORMATION AS TO THE TYPES OF BASINS THAT MAY NEED ADJUSTMENT.

CONTRACTOR STAGING AREA
THE AVAILABLE CONTRACTOR STAGING AREAS WILL BE EXIT 59. IF A CONTRACTOR CHOOSES A STAGING AREA WITHIN THE TURNPIKE RIGHT OF WAY OTHER THAN WHAT IS INDICATED IN THE PLANS, IT MUST BE SUBMITTED TO THE CHIEF ENGINEER FOR APPROVAL PRIOR TO USE.

THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS TO GET NEEDED UTILITIES (ELECTRIC AN/OR PHONE/INTERNET) TO THE STAGING AREA AT NO ADDITIONAL COST TO THE COMMISSION.

THE STAGING AREA SHALL BE MAINTAINED BY THE CONTRACTOR AND RESTORED TO ORIGINAL CONDITION TO THE APPROVAL OF THE ENGINEER PRIOR TO COMPLETION OF ALL WORK.

CONTINGENCY QUANTITIES
THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE CHIEF ENGINEER" UNLESS AUTHORIZED BY THE CHIEF ENGINEER. THE ACTUAL WORK LOCATION AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED IN THE FINAL CHANGE ORDER GOVERNING THE COMPLETION OF THIS PROJECT.

INCLEMENT WEATHER
THE CONTRACTOR SHALL BE AWARE OF AND PREPARE FOR CHANGING WEATHER CONDITIONS. WHEN CONDITIONS DICTATE, OR AS DIRECTED BY THE CHIEF ENGINEER, THE CONTRACTOR SHALL PROVIDE AND UTILIZE NECESSARY EQUIPMENT TO PREVENT WATER FROM PONDING ALONG THE MILLED SURFACE AND FLOWING INTO AND ACROSS ACTIVE TRAFFIC LANES.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY FOR THE ABOVE MENTIONED SHALL BE CONSIDERED INCIDENTAL TO ITEM SP 614 – MAINTAINING TRAFFIC, AS PER PLAN.