

ITEM 614 - MAINTAINING TRAFFIC

CONSTRUCTION OPERATIONS SHALL NOT BEGIN UNTIL ALL TRAFFIC CONTROL IS IN PLACE AND APPROVED BY ODOT PERSONNEL. THE PROJECT ENGINEER SHALL APPROVE ALL TEMPORARY TRAFFIC CONTROL DEVICES FOR CONDITION AND LOCATION BEFORE THE CONTRACTOR WILL BE ALLOWED TO BEGIN WORK. IF THE CONTRACTOR DOES NOT COMPLY WITH THE STANDARDS, HIS PERMIT SHALL BE REVOKED AND ALL WORK SHALL BE TERMINATED.

ALL SIGNS, BARRICADES, SIGN SUPPORTS, DRUMS, FLAGGERS, WORK ZONE TRAFFIC SIGNALS AND INCIDENTALS FOR TRAFFIC CONTROL SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR IN CONFORMANCE WITH THE MOST RECENT REVISIONS, CURRENT EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (OMUTCD). ALL SIGNS USED FOR THE MAINTENANCE OF TRAFFIC SHALL BE NEW OR LIKE NEW CONDITION SUBJECT TO THE APPROVAL OF THE ENGINEER. DEVICES USED TO MAINTAIN TRAFFIC SHALL BE REMOVED IMMEDIATELY AFTER THE TERMINATION OF SAID WORK. PAYMENT SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC.

FOR WORK WHICH IS CONFINED TO THE SHOULDER, TRAFFIC CONTROL SHALL CONFORM TO FIGURES TA-1, TA-3, TA-4, AND TA-6 OF THE OMUTCD AND SCD MT-95.45. IF THE CONTRACTOR FAILS TO COMPLY WITH THE PROVISIONS FOR TRAFFIC CONTROL AS SET FORTH IN THESE PLANS AND PROVISIONS OF THE OMUTCD AND FAILURE RESULTS IN A CONDITION AT THE WORK SITE WHICH IS UNSAFE FOR TRAFFIC, THE ENGINEER HAS THE AUTHORITY TO SUSPEND WORK UNTIL THE CONTRACTOR COMPLIES WITH THE NECESSARY REQUIREMENTS.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK ON PROGRESS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 - MAINTAINING TRAFFIC, UNLESS SEPERATELY ITEMIZED IN THE PLAN.

THE FOLLOWING NOTES ARE APPLICABLE TO CITY STREETS ONLY:

ALL TEMPORARY TRAFFIC CONTROL DEVICES (TTC) SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD) FOR CONSTRUCTION AND MAINTENANCE OPERATIONS (LATEST EDITION). COPIES ARE AVAILABLE FROM THE OHIO DEPARTMENT OF TRANSPORTATION, 1980 WEST BROAD STREET, COLUMBUS OHIO 43223.

CONSTRUCTION OPERATIONS SHALL NOT BEGIN UNTIL ALL TRAFFIC CONTROL IS IN PLACE AND APPROVED BY THE TRANSPORTATION DIVISION INSPECTOR. IF THE CONTRACTOR DOES NOT COMPLY WITH THE STANDARDS, INCLUDING THE INSTALLATION OF TEMPORARY PAVEMENT MARKINGS AND THE REMOVAL OF CONFLICTING TRAFFIC CONTROLS, THEIR PERMIT SHALL BE REVOKED AND ALL WORK SHALL BE TERMINATED.

A FLASHING ARROW PANEL (48" X 96"-TYPE C) SHALL BE USED IN LANE CLOSURES AS PER THE OHIO MANUAL.

ALL TRENCHES WITHIN THE ROAD RIGHT-OF-WAY SHALL BE BACKFILLED DURING NON-WORKING HOURS.

ACCESS FOR PEDESTRIAN AND VEHICULAR TRAFFIC TO ALL ADJOINING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.

THE TRANSPORTATION DIVISION SHALL LOCATE AND MARK ALL UNDERGROUND TRAFFIC CONTROL CABLES. THE TRAFFIC ENGINEERING GROUP SHALL BE NOTIFIED (614-645-7393; FAX 614-645-5967) AT LEAST TWO WORKING DAYS PRIOR TO THE BEGINNING OF ANY WORK WITHIN 450 FEET OF ANY SIGNALIZED INTERSECTION OR WITHIN ANY POSTED AREA WHERE THE DIVISION HAS UNDER-GROUND CABLE. THE SIGNALS MANAGEMENT PERSONNEL (614-645-0423; CELL 614-419-4501) SHALL BE NOTIFIED SIX WEEKS IN ADVANCE FOR SIGNAL REVISIONS OR POLE RELOCATIONS.

ITEM 614 - MAINTAINING TRAFFIC (CONT'D)

NO EXCAVATION SHALL BE MADE WITHIN FIVE (5) FEET OF ANY POLE THAT SUPPORTS TRAFFIC SIGNAL DISPLAYS OR SIGNS BY MAST ARM OR SIGNAL SPAN. EXCAVATION WITHIN EIGHT (8) FEET, BUT MORE THAN FIVE (5) FEET SHALL REQUIRE ADDITIONAL SUPPORT (DOWN GUY, HEAD GUY, BASE GUY ETC.). THE CONTRACTOR SHALL CONTACT TRANSPORTATION DIVISION SIGNALS MANAGEMENT PERSONNEL AT 614-645-0423 AT LEAST 48 HOURS (EXCLUDING SATURDAY AND SUNDAY) PRIOR TO THE BEGINNING OF SUCH EXCAVATION, SO THAT THE CITY CAN APPROVE THE STABILIZATION SETUP BY THE CONTRACTOR. STABILIZATION WILL BE DONE BY THE CONTRACTOR AT THE OWNER'S/CONTRACTING AGENCY'S EXPENSE.

WHEN ANY TRAFFIC CONTROL DEVICE, CONDUIT, OR CABLE GETS DAMAGED, THE CONTRACTOR SHALL NOTIFY CITY SIGNALS MANAGEMENT PERSONNEL AT 614-645-7963 BETWEEN 8:00AM AND 4:30PM, MONDAY THROUGH FRIDAY. AT OTHER TIMES OR IF SIGNAL MANAGEMENT PERSONNEL CANNOT BE REACHED, CONTACT TRAFFIC ENGINEERING MAINTENANCE SHOP AT 614-645-7393. LEAVE A MESSAGE ON THE ANSWERING MACHINE IF NECESSARY.

THE ROADWAY SHALL NOT BE OPENED TO NON-CONSTRUCTION TRAFFIC UNTIL THE CRITICAL PERMANENT TRAFFIC CONTROLS ARE IN PLACE, OR UNTIL TEMPORARY TRAFFIC CONTROLS APPROVED BY THE ENGINEER, ARE INSTALLED. THE CRITICAL PERMANENT TRAFFIC CONTROLS ARE STOP, YIELD, ONE-WAY, DO NOT ENTER AND RESTRICTED TURN SIGNS. OTHER CRITICAL SIGNS MAY BE NOTED IN THE PLANS AS WELL. THE CONTRACTOR ASSUMES ALL LIABILITY FOR THE PREMATURE REMOVAL OF TEMPORARY TRAFFIC CONTROLS.

THE CONTRACTOR SHALL MAINTAIN ALL PERMANENT TRAFFIC CONTROLS NOT IN CONFLICT WITH THE TEMPORARY TRAFFIC CONTROLS THROUGHOUT THIS PROJECT. PERMANENT TRAFFIC CONTROLS MAY BE TEMPORARILY RELOCATED OR COVERED, AS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR MISSING, DAMAGED OR IMPROPERLY PLACED SIGNS.

ALL OVERHEAD CABLE, DOWN GUYS OR BACK GUYS SHALL NOT BLOCK ANY PORTION OF A TRAFFIC SIGNAL, TRAFFIC CONTROL SIGN, OR OTHER TRAFFIC CONTROL DEVICE SUCH THAT VISIBILITY OR OPERATION OF THE TRAFFIC CONTROL DEVICE IS IMPAIRED.

ANY WORK PERFORMED BY THE CITY TRANSPORTATION DIVISION, INCLUDING INSTALLATION, RELOCATIONS, REMOVAL AND/OR REPLACEMENT OF TEMPORARY TRAFFIC CONTROL DEVICES AS A RESULT OF WORK DONE BY THE CONTRACTOR OR AS A RESULT OF NEGLIGENCE OF THE CONTRACTOR SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REINSTALLATION AND/OR REPLACEMENT OF ALL PERMANENT TRAFFIC CONTROL DEVICES DAMAGED OR REMOVED DURING CONSTRUCTION. PERMANENT TRAFFIC CONTROL NO LONGER IN CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE REPLACED IMMEDIATELY.

PERMEMENT STRIPING OR CLASS I WORK ZONE STRIPING SHALL BE INSTALLED NO LATER THAN FOURTEEN (14) CALENDAR DAYS AFTER THE FINAL PAVING COURSE IS COMPLETED. THE PAVING CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE STRIPING CONTRACTOR TO INSURE THE PERMANENT STRIPING IS INSTALLED WITHIN THE FOURTEEN (14) CALENDAR DAY LIMIT.

IF ANY PORTABLE SIGN STANDS ARE LOCATED WITHIN A PEDESTRIAN TRAFFIC AREA DRUMS SHALL BE UTILIZED TO PROTECT AGAINST TRIP HAZARDS. A MINIMUM OF TWO DRUMS PER PORTABLE SIGN STAND SHALL BE USED.

ITEM 614 MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR SPECIAL EVENTS:

NEW YEAR'S (OBSERVED)	GENERAL/REGULAR ELECTION DAY (NOV)
TOTAL SOLAR ECLIPSE (4/8/24)	THANKSGIVING
MEMORIAL DAY	CHRISTMAS (OBSERVED)
FOURTH OF JULY (OBSERVED)	(OTHER HOLIDAY OR SPECIAL EVENT)
LABOR DAY	

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR SPECIAL EVENT	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
MONDAY (TOTAL SOLAR ECLIPSE)	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
TUESDAY (GEN./REG. ELECTION)	5:00 AM TUESDAY THROUGH 12:00 AM WEDNESDAY
WEDNESDAY	12:00n TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY (THANKSGIVING ONLY)	6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

DURING THE SAME PERIODS, MAINTAIN PEDESTRIAN ACCESS IF PEDESTRIAN ACCESS WAS PRESENT PRIOR TO CONSTRUCTION.

NEWLY CONSTRUCTED LANE ADDITIONS, ONCE COMPLETED AND INITIALLY OPENED TO TRAFFIC, SHALL BE OPEN TO TRAFFIC DURING ALL SUBSEQUENT HOLIDAYS AND SPECIAL EVENTS, AND RELATED PERIODS OF TIME, SPECIFIED ABOVE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127).

NOTICE OF CLOSURE SIGN

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTIFICATION OF CLOSURE SIGN TIME TABLE		
ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP AND ROAD CLOSURES	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS AND < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

OVERNIGHT TRENCH CLOSING

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN 5 INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING SHALL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER.

DRUM REQUIREMENTS

IN ADDITION TO THE REQUIREMENTS OF THE PLANS, SPECIFICATION AND PROPOSAL, DRUMS FURNISHED BY THE CONTRACTOR SHALL BE NEW AND UNUSED AT THE TIME OF ARRIVAL ON THE PROJECT. ANY DRUMS BROUGHT ON THE PROJECT, WHICH HAVE PREVIOUSLY BEEN USED ELSEWHERE, WILL NOT BE ACCEPTED.

PAYMENT FOR DRUMS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR MAINTAINING TRAFFIC UNLESS SEPARATELY ITEMIZED.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616 - WATER 737 M. GAL.

MAINTENANCE OF TRAFFIC FOR MARKING PAVEMENT REPAIRS

PROVIDE LANE CLOSURES AS PER THE MAINTENANCE OF TRAFFIC NOTES IN THESE PLANS A MINIMUM OF 24 HOURS PRIOR TO PERFORMING PAVEMENT REPAIRS TO ALLOW THE ENGINEER TO IDENTIFY AND MARK THE AREAS OF THE PAVEMENT IN NEED OF REPAIRS.

PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS, LEO HOURS, AND INCIDENTALS NEEDED TO PERFORM THE ABOVE LISTED WORK IS CONSIDERED INCIDENTAL TO MAINTAINING TRAFFIC ON THE PROJECT AND WILL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614 MAINTAINING TRAFFIC.

LOCAL ACCESS

INGRESS OR EGRESS SHALL BE MAINTAINED TO ALL RESIDENTIAL AND COMMERCIAL PROPERTIES AT ALL TIMES UNLESS SHOWN OTHERWISE IN THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING OWNER, RESIDENTS, OR BUSINESS OPERATORS IN WRITING AT LEAST 48 HOUR BUT NOT MORE THAN 72 HOUR PRIOR TO BEGINNING DRIVE CONSTRUCTION. THE ENGINEER SHALL BE GIVEN A LIST OF THE PERSONS THAT WERE GIVEN NOTICES WITH THE DATE OF THE NOTICE INCLUDED.

NOTIFICATION OF CONSTRUCTION INITIATION

AT LEAST FOURTEEN DAYS PRIOR TO STARTING INITIAL CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL ADVISE THE DISTRICT OFFICE OF COMMUNICATIONS VIA EMAIL AT D06.PIO@DOT.OHIO.GOV, THE DISTRICT WORK ZONE TRAFFIC MANAGER VIA EMAIL AT D06.MOT@DOT.OHIO.GOV AND THE CENTRAL OFFICE SPECIAL HAUL PERMITS SECTION VIA EMAIL AT HAULING.PERMITS@DOT.OHIO.GOV OF THE ANTICIPATED START DATE OF ANY CONSTRUCTION ACTIVITIES INCLUDING BUT NOT LIMITED TO THE PLACING OF WORK ZONE SIGNS. THE NOTIFICATION SHALL ALSO INCLUDE THE PROJECT NUMBER, PID, NAME AND PHONE NUMBER OF THE CONTRACTOR, A POINT OF CONTACT AND THE ANTICIPATED IMPACT ON TRAFFIC. THE CONTRACTOR WILL IMMEDIATELY INFORM THE DISTRICT OFFICE OF COMMUNICATIONS AND THE DISTRICT WORK ZONE TRAFFIC MANAGER OF ANY AND ALL DELAYS AND/OR CHANGES REGARDING THE CONSTRUCTION INITIATION DATE.

PRE-MAINTENANCE OF TRAFFIC MEETING

A PRE-MAINTENANCE OF TRAFFIC MEETING SHALL BE HELD (MINIMUM OF 10 WORK DAYS) PRIOR TO WORK BEGINNING OR ANY CHANGE OF PHASING. THIS MEETING SHALL INCLUDE THE DISTRICT WORK ZONE TRAFFIC MANAGER (d06.mot@dot.ohio.gov) AS WELL AS THE CONTRACTOR AND ANY OF HIS SUB-CONTRACTORS INVOLVED WITH TEMPORARY TRAFFIC CONTROL. FOR COLUMBUS SECTIONS OF ROADWAY, ALSO INCLUDE THE TEMPORARY TRAFFIC CONTROL COORDINATOR (614-645-6269 OR 614-645-5845) FROM THE CITY OF COLUMBUS TRANSPORTATION DIVISION.

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WEEKLY MAINTENANCE OF TRAFFIC MEETING

AFTER THE INITIAL PRE-MAINTENANCE OF TRAFFIC MEETING, THE CONTRACTOR SHALL MEET WITH THE PROJECT ENGINEER ON A WEEKLY BASIS TO GO OVER A DETAILED MAINTENANCE OF TRAFFIC REPORT OF AT LEAST 7 CALENDAR DAYS. THIS MEETING SHOULD BE HELD ON THE SAME DAY AND TIME OF EACH WEEK.

THE CONTRACTOR WILL PROVIDE TO THE PROJECT ENGINEER A WRITTEN DETAIL OF THE INFORMATION REQUIRED BY THE NOTIFICATION OF TRAFFIC RESTRICTIONS NOTE PRIOR TO THE MEETING.

IN ADDITION TO THE DETAILED MAINTENANCE OF TRAFFIC REPORT THE CONTRACTOR SHALL GIVE A GENERAL LOOK AHEAD OF AN ADDITIONAL 2 WEEKS OF UPCOMING WORK ACTIVITIES. THIS WILL INCLUDE ANY NOTIFICATION REQUIREMENTS FOR RESTRICTIONS THAT HAVE A DURATION GREATER THAN 12 HOURS.

MAINTENANCE OF TRAFFIC FOR CONSTRUCTION OF DRAINAGE ON BRICE ROAD

TO BE ABLE TO CONSTRUCT THE DRAINAGE IN THE MAINTENANCE OF TRAFFIC SCHEME PROVIDED HEREIN, PORTIONS OF THE TRUNK LINE STORM SEWER SHALL BE CONSTRUCTED DURING PRE-PHASE 1.

PRE-PHASE 1 FOR DRAINAGE ON BRICE ROAD SHALL CLOSE THE RIGHT-MOST NORTHBOUND LANE USING STANDARD DRAWING MT-95.30, DURING THE HOURS OF 9 AM TO 3 PM, WEEKDAYS. THE LIMITS OF THE NECESSARY NORTHBOUND CLOSURE WILL BE STATION 4+00 ON THE SOUTH END OF THE PROJECT AND STATION 19+00 ON THE NORTH END OF THE PROJECT. THE CLOSURE LENGTH MAY VARY EACH DAY BASED ON DAILY WORK LIMITS. OPEN TRENCHES SHALL BE COVERED WITH STRUCTURALLY ADEQUATE STEEL PLATES IF EXPOSED TO TRAFFIC. CONTRACTOR IS RESPONSIBLE FOR DESIGNING THICKNESS OF PLATES.

DURING PRE-PHASE 1, WHILE DRAINAGE STRUCTURES ARE BEING CONSTRUCTED, ACCESS SHALL BE MAINTAINED TO ALL DRIVEWAYS THROUGH PART-WIDTH CONSTRUCTION, PLATES, AND DRUMS.

DURING PRE-PHASE 1, THE FOLLOWING DRAINAGE STRUCTURES AS CALLED OUT IN THE DRAINAGE PLANS WILL NEED TO BE CONSTRUCTED, INCLUDING THE PIPE SEGMENTS BETWEEN STRUCTURES TO PROVIDE POSITIVE DRAINAGE:

D200 D301 D304 D341 D345 D201 D302 D305 D342 D350 D202 D303 D306 D343 D203 D303A AND CONCRETE COLLAR CONNECTING EXISTING 48" TO PIPE ENTERING D350.

THE PARTIAL TRUNK LINE, AS INDICATED ABOVE, SHALL BE CONNECTED TO THE EXISTING CULVERT NEAR STATION 12+00 DURING PRE-PHASE 1.

PIPES TO BE CONSTRUCTED DURING PHASE 1 ARE SHOWN IN THE DRAINAGE PLANS AS CROSSING BRICE ROAD TO THE TRUNK SEWER LINE CONSTRUCTED IN PRE-PHASE 1 AS ABOVE. THESE CROSSING PIPES, LISTED BELOW, MAY BE CONSTRUCTED USING OPEN CUTTING OF PAVEMENT. THE OPEN CUTTING OF PAVEMENT WILL NEED TO BE ACCOMPLISHED BY WEEKEND WORK AS DEFINED BY 10:00 PM FRIDAY NIGHT THROUGH 5:00 AM MONDAY MORNING. TEMPORARY LANE CLOSURES SHALL BE FACILITATED BY USING SCD MT-95.30 AND APPLICATIONS TA-21, TA-22, TA-23, AND TA-30 OF THE OMUTCD. STRUCTURALLY ADEQUATE STEEL PLATES SHALL COVER ALL OPEN TRENCHES SUBJECTED TO TRAFFIC. CONTRACTOR IS RESPONSIBLE FOR DESIGNING THICKNESS OF PLATES. TRENCHES SHALL BE BACKFILLED AT THE END OF EACH WEEKEND'S WORK. WEEKEND WORK SHALL NOT BE IN CONTRADICTION TO HOLIDAY OR SPECIAL EVENT TABLE IN THESE NOTES. A MINIMUM OF ONE LANE IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES DURING WEEKEND WORK.

CROSSING PIPES TO BE CONSTRUCTED IN PHASE 1:
214-203 320-304 346-345 312-302
324-306 316-303 344-343

THE REMAINDER OF THE DRAINAGE STRUCTURES AND CONDUITS SHALL BE CONSTRUCTED IN PHASE 2 AND 3, AS THE PROPOSED MOT SCHEME CLOSES TRAFFIC TO THE AREA NECESSARY TO CONSTRUCT EACH ITEM.

MOT QUANTITIES FOR WORK DESCRIBED ABOVE ARE INCIDENTAL TO LUMP SUM QUANTITY OF MOT.

WORK ZONE MARKINGS

ITEM 614 - WORK ZONE PAVEMENT MARKING MISC.: LANE LINE, CLASS I, 5", 642 PAINT

ITEM 614 - WORK ZONE PAVEMENT MARKING MISC.: EDGE LINE, CLASS I, 5", 642 PAINT, WHITE

IN ADDITION TO THE REQUIREMENT OF ITEM 614 AND 642 THE PAVEMENT MARKINGS SHALL BE 5" PER CITY OF COLUMBUS ITEM 614 AND 642.

PAYMENT FOR THIS ITEM SHALL BE AT THE CONTRACT UNIT PRICE BID PER MILE, INSTALLED AND MAINTAINED.

ITEM 614 - WORK ZONE PAVEMENT MARKING MISC.: CHANNELIZING LINE, CLASS I, 10", 642 PAINT

ITEM 614 - WORK ZONE PAVEMENT MARKING MISC.: STOP LINE, CLASS I, 20", 642 PAINT

IN ADDITION TO THE REQUIREMENT OF ITEM 614 AND 642 THE PAVEMENT MARKINGS SHALL BE PER MARKING WIDTH SPECIFIED PER CITY OF COLUMBUS ITEM 614 AND 642.

PAYMENT FOR THIS ITEM SHALL BE AT THE CONTRACT UNIT PRICE BID PER FT, INSTALLED AND MAINTAINED.

ITEM 614 - WORK ZONE PAVEMENT MARKING MISC.: DOTTED LINE, CLASS I, 5", 740.06, TYPE I

IN ADDITION TO THE REQUIREMENT OF ITEM 614 AND 740 THE PAVEMENT MARKINGS SHALL BE PER MARKING WIDTH SPECIFIED PER CITY OF COLUMBUS ITEM 614 AND 642.

PAYMENT FOR THIS ITEM SHALL BE AT THE CONTRACT UNIT PRICE BID PER FT, INSTALLED AND MAINTAINED.

ITEM 614 - WORK ZONE PAVEMENT MARKING MISC.: EDGE LINE, CLASS I, 5", 740.06, TYPE I, YELLOW

IN ADDITION TO THE REQUIREMENT OF ITEM 614 AND 740 THE PAVEMENT MARKINGS SHALL BE PER MARKING WIDTH SPECIFIED PER CITY OF COLUMBUS ITEM 614 AND 642.

PAYMENT FOR THIS ITEM SHALL BE AT THE CONTRACT UNIT PRICE BID PER MILE, INSTALLED AND MAINTAINED.

ITEM 614 - WORK ZONE PAVEMENT MARKING MISC.: CENTER LINE, CLASS I, 5", 642 PAINT, DOUBLE SOLID

IN ADDITION TO THE REQUIREMENTS OF ITEM 614 AND 642 THE PAVEMENT MARKINGS SHALL BE PER MARKING WIDTH SPECIFIED PER CITY OF COLUMBUS ITEM 614 AND 642.

PAYMENT FOR THIS ITEM SHALL BE AT THE CONTRACT UNIT PRICE BID PER MILE, INSTALLED AND MAINTAINED.

ITEM 614 - WORK ZONE PAVEMENT MARKING MISC.: ARROW, CLASS I, 642 PAINT

ITEM 614 - WORK ZONE PAVEMENT MARKING MISC.: LANE REDUCTION ARROW, CLASS I, 642 PAINT

IN ADDITION TO THE REQUIREMENTS OF ITEM 614 AND 642 THE PAVEMENT MARKINGS SHALL BE PER MARKING SPECIFICATIONS PER CITY OF COLUMBUS ITEM 614 AND 642.

PAYMENT FOR THIS ITEM SHALL BE AT THE CONTRACT UNIT PRICE BID PER EACH, INSTALLED AND MAINTAINED.

ITEM 614 - REPLACEMENT SIGN

FLATSHEET SIGNS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT SIGNS SHALL BE NEW. OTHER MATERIALS MAY BE USED, BUT GOOD, CONDITION SUBJECT TO APPROVAL BY THE ENGINEER.

PAYMENT FOR THE NEW SIGNS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT SIGN, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF DAMAGED SIGNS, HARDWARE AND SUPPORTS, AND PROVIDING THE NECESSARY REPLACEMENT HARDWARE, SUPPORTS, ETC.

AN ESTIMATED QUANTITY OF 50 EACH HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614 - REPLACEMENT DRUM

DRUMS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT DRUMS SHALL BE NEW.

PAYMENT FOR THE NEW DRUMS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT DRUM, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED DRUM, AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL DRUM.

AN ESTIMATED QUANTITY OF 300 EACH HAS BEEN CARRIED TO THE GENERAL SUMMARY.

WORK ZONE SPEED ZONES (WZSZS)

THE FOLLOWING WORK ZONE SPEED ZONE (WZSZ) SPEED LIMIT REVISION(S) HAVE BEEN APPROVED FOR USE ON THIS PROJECT WHEN WORK ZONE CONDITIONS AND FACTORS ARE MET AS DESCRIBED BELOW:

WZSZ REVISION NUMBER(S)	COUNTY-ROUTE-SECTIONS(S)	DIRECTION(S)
WZ-35788	T-70, 22.26-24.81	WB

POTENTIAL WZSZ LOCATIONS SHALL HAVE AN ORIGINAL (PRE-CONSTRUCTION) POSTED SPEED LIMIT OF 55 MPH OR GREATER, A QUALIFYING WORK ZONE CONDITION OF AT LEAST 0.5 MILE IN LENGTH, AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS, AND A WORK ZONE CONDITION IN PLACE THAT REDUCES THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS (I.E., LANE CLOSURE, LANE SHIFT, CROSSOVER, CONTRAFLOW AND/OR SHOULDER CLOSURE). THE LENGTH OF THE WORK ZONE CONDITION IS MEASURED FROM THE BEGINNING OF THE TAPER FOR THE SUBJECT WORK ZONE CONDITION IMPACTING THE TRAVEL LANES AND/OR SHOULDER TO THE END OF THE DOWNSTREAM TAPER, WHERE DRIVERS ARE RETURNED TO TYPICAL ALIGNMENT. AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS IS REQUIRED TO BALANCE THE ADDITIONAL EXPOSURE CREATED BY INSTALLING AND REMOVING WZSZ SIGNING WITH THE TIME NEEDED TO COMPLETE THE WORK.

IF THE WORK ZONE MEETS THESE MINIMUM CRITERIA, IT SHALL BE ANALYZED FURTHER USING TABLE 1 BELOW TO DETERMINE IF AND WHEN IT QUALIFIES FOR A SPEED LIMIT REDUCTION. DEPENDING ON THE ORIGINAL POSTED SPEED LIMIT, THE TYPE OF TEMPORARY TRAFFIC CONTROL USED, AND WHETHER OR NOT WORKERS ARE PRESENT, A WARRANTED WZSZ WILL VARY IN THE APPROVED SPEED LIMIT TO BE POSTED OVER TIME.

C&MS ITEM 614, PARAGRAPH 614.02(B), INDICATED THAT TWO DIRECTIONS OF A DIVIDED HIGHWAY ARE CONSIDERED SEPARATE HIGHWAY SECTIONS. THEREFORE, IF THE WORK ON A MULTI-LANE DIVIDED HIGHWAY IS LIMITED TO ONLY ONE DIRECTION, A SPEED LIMIT REDUCTION IN THE OPPOSITE DIRECTION. EACH DIRECTION SHALL BE ANALYZED INDEPENDENTLY FROM EACH OTHER. MAINLINE AND CD LANES SEPARATED BY BARRIERS IN THE SAME DIRECTION SHALL BE ANALYZED TOGETHER.

WORK ZONE SPEED ZONES (WZSZS) (CONT'D)

ALL WZSZS FLUCTUATE BETWEEN TWO APPROVED REDUCED SPEED LIMITS OR BETWEEN AN APPROVED REDUCED SPEED LIMIT AND THE ORIGINAL POSTED SPEED LIMIT. ONLY ONE OF TWO SIGNING STRATEGIES SHALL BE USED TO IMPLEMENT A WZSZ.

WZSZS USING DSL SIGN ASSEMBLIES SHALL BE IN ACCORDANCE WITH THIS NOTE, APPROVED LIST, SUPPLEMENTAL SPECIFICATIONS (SS) 808 AND 908, AND TRAFFIC SCD MT-104.10.

ONLY ONE WARRANTED SPEED LIMIT APPLIES AT ANY ONE TIME; SPEED LIMIT REDUCTIONS ARE NOT CUMULATIVE. WZSZS SHALL NOT BE USED FOR MOVING/MOBILE ACTIVITIES, AS DEFINED IN OMUTCD PART 6.

WHEN LOOKING UP THE WARRANTED WORK ZONE SPEED LIMITS, ALWAYS USE THE ORIGINAL, PRECONSTRUCTION, POSTED SPEED LIMIT. DO NOT USE A PRIOR OR CURRENT WORK ZONE SPEED LIMIT AS A LOOK UP VALUE IN THE TABLE. POSITIVE PROTECTION IS GENERALLY REGARDED AS PORTABLE BARRIER OR OTHER RIGID BARRIER IN USE ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WITHOUT POSITIVE PROTECTION IS GENERALLY REGARDED AS USING DRUMS, CONES, SHADOW VEHICLE, ETC., ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WORKERS ARE CONSIDERED AS BEING PRESENT WHEN ON-SITE, WORKING WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WHEN THE WORK ZONE CONDITION REDUCING THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS IS REMOVED, THE SPEED LIMIT DISPLAYED SHALL RETURN TO THE ORIGINAL POSTED SPEED LIMIT.

TABLE 1: WARRANTED WORK ZONE SPEED LIMITS (MPH) FOR WORK ZONES ON HIGH SPEED (55 MPH OR GREATER) MULTI-LANE HIGHWAYS

ORIGINAL POSTED SPEED LIMIT	WITH PROTECTION		WITHOUT PROTECTION	
	WORKERS PRESENT	WORKERS NOT PRESENT	WORKERS PRESENT	WORKERS NOT PRESENT
70	60	65	55	65
65	55	60	50	60
60	55	60	50	60
55	50	55	45	55

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 808, DIGITAL SPEEL LIMIT (DSL) SIGN ASSEMBLY 120 SNMT ASSUMING 8 DSL SIGN ASSEMBLIES FOR 15 MONTHS

COORDINATION WITH ADJACENT PROJECTS
THE CONTRACTOR SHALL COORDINATE WORK WITH ODOT AND THE CONTRACTORS ON THE ADJACENT PROJECTS. ADJACENT PROJECTS WILL BE: FRA-70-22.61, PID 95639 FRA-270-43.18, PID 112798 LIGHTING OPTIMIZATION SE OHIO, PID 112676 D05 PM FY2024(D) R-WR, PID 117284. COORDINATION SHALL BE MADE TO PREVENT CONFLICTING ADVANCE WARNING SIGNS, CONFLICTING DETOUR ROUTES, OVERLAPING/CONFLICTING LANE CLOSURES, AND TO ENSURE THAT A MINIMUM DISTANCE OF 2 MILES BETWEEN ADJACENT LANE CLOSURES IS MAINTAINED. THIS IS NOT AN EXHAUSTIVE LIST OF COORDINATION ITEMS THAT MAY NEED TO BE RESOLVED BETWEEN PROJECTS. THE DEPARTMENT RESERVES THE RIGHT TO DECIDE WHICH PROJECT'S ACTIVITIES TAKE PRECEDENCE. PROJECTS THAT HAVE ACTIVITIES DELAYED DUE TO CONFLICTS WILL CONSIDER THIS AN EXCUSABLE, NON-COMPENSABLE DELAY PER 108.06.B. ON PROJECTS THAT HAVE ACTIVITIES DELAYED DUE TO CONFLICTS WHERE THE CONTRACTOR FAILED TO MEET THE NOTIFICATION REQUIREMENTS, THE DELAYS SHALL NOT BE CONSIDERED EXCUSABLE OR COMPENSABLE. ATTENDANCE AT DEPARTMENT ORDERED TRAFFIC COORDINATION MEETINGS BETWEEN ADJACENT PROJECTS SHALL BE CONSIDERED MANDATORY FOR EACH PROJECT'S SUPERINTENDENT AND WORKSITE TRAFFIC SUPERVISOR (WTS)*, AND INCIDENTAL TO THE LUMP SUM MAINTENANCE OF TRAFFIC PAYMENT ITEM

*IF REQUIRED BY THE PROJECT

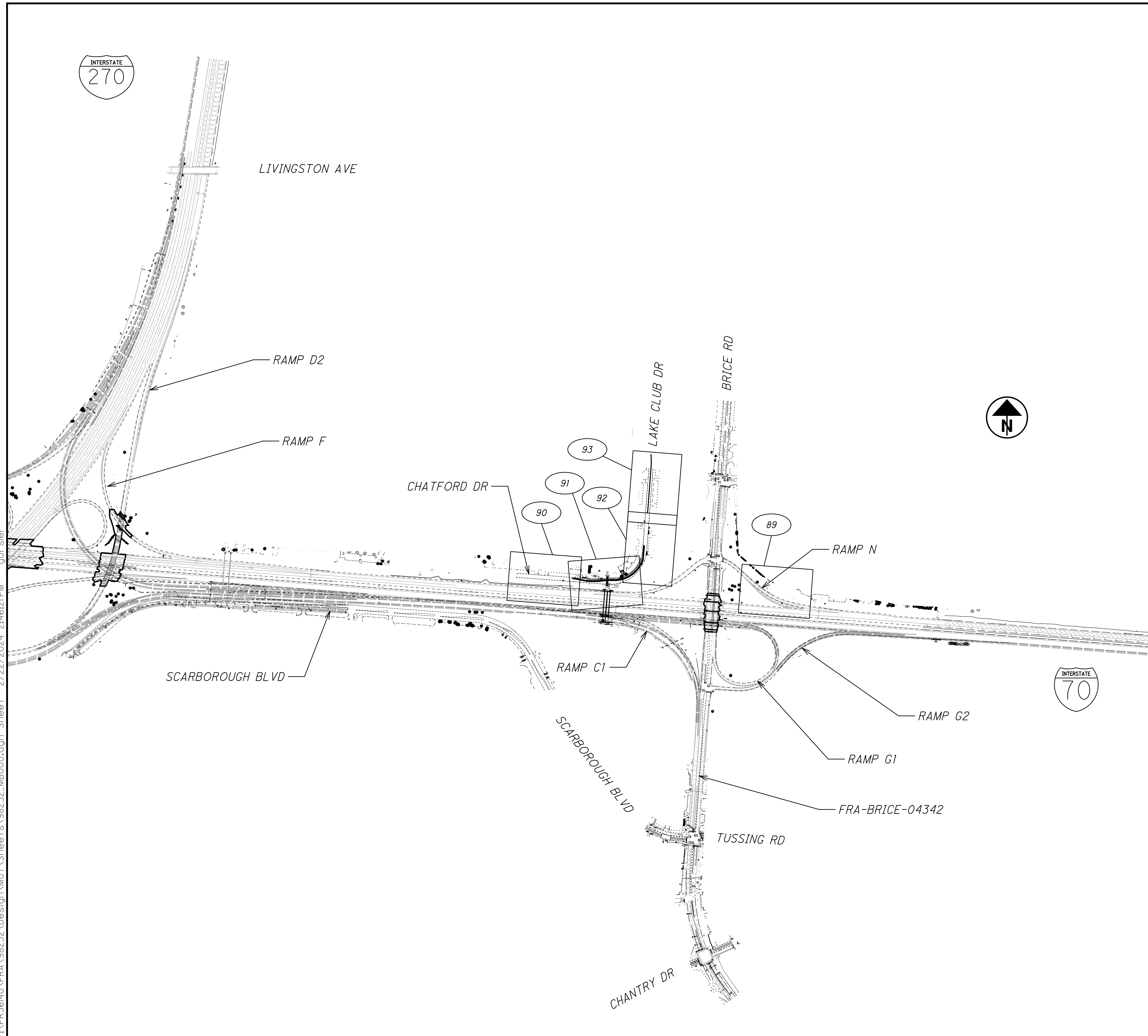
MAINTENANCE OF TRAFFIC SUBSUMMARY

FRA-70-22.85

ITEM	EXTENSION	TOTAL FROM SHEET													TOTAL	UNIT	DESCRIPTION	SEE SHEET
		59-65	68	69	70	71	72	73	74	75	76	77	78	79				
411	10000		123			90									213	CY	STABILIZED CRUSHED AGGREGATE	
601	32200					3									3	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
602	20000					1									1.4	CY	CONCRETE MASONRY	
606	15050		645						488					213	1348	FT	GUARDRAIL, TYPE MGS	
606	26150													1	1	EACH	ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016	
606	26500													1	3	EACH	ANCHOR ASSEMBLY, TYPE T	
611	04400					46									46	FT	12" CONDUIT, TYPE B	
611	05900					224									224	FT	15" CONDUIT, TYPE B	
611	07400					122									122	FT	18" CONDUIT, TYPE B	
611	98450					2									2	EACH	CATCH BASIN, NO. 2-2A	
614	1110	1000													1000	HOOR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	65
SPECIAL	61411300	6													6	EACH	WORK ZONE TRAFFIC SIGNAL	64
614	11630	46466													46466	FT	INCREASED BARRIER DELINEATION	65
614	12380	42													42	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
614	12420														LS		DETOUR SIGNING	
614	12484	42													42	EACH	WORK ZONE INCREASED PENALTIES SIGN	61
614	12500	50													50	EACH	REPLACEMENT SIGN	60
614	12600	300													300	EACH	REPLACEMENT DRUM	60
614	12801		728			409						295			2004	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	62
614	13310	915													915	EACH	BARRIER REFLECTOR, TYPE 1, ONE-WAY	65
614	13312	1064													1064	EACH	BARRIER REFLECTOR, TYPE 2, ONE-WAY	65
614	13350	3773													3773	EACH	OBJECT MARKER, ONE WAY	65
614	18601	64													64	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	61
614	20056		3.42			3.69						2.53			15.47	MILE	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	
614	22056		3.33		0.27	3.61		0.20	0.12	4.27		0.14	4.06		16.00	MILE	WORK ZONE, EDGE LINE, CLASS I, 6", 807 PAINT, WHITE	
614	22056		2.86		0.23	3.67		0.20	0.12	3.98		0.10	4.44		15.59	MILE	WORK ZONE, EDGE LINE, CLASS I, 6", 807 PAINT, YELLOW	
614	23110		10933			9075				6002		54	10580		36644	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	
614	24102		779			1639				3878			4607		10903	FT	WORK ZONE DOTTED LINE, CLASS I, 6" 807 PAINT	
614	26400									47					47	FT	WORK ZONE STOP LINE, CLASS I, 740.06, TYPE I	
614	27070									164	200				364	FT	WORK ZONE CROSSWALK LINE, CLASS I, 12", 740.06, TYPE I	
614	31200				2						2				4	EACH	WORK ZONE WORD ON PAVEMENT, 72", CLASS I, 642 PAINT	
614	31650		4			4									8	EACH	WORK ZONE WORD ON PAVEMENT, 96", CLASS I, 642 PAINT	
614	98000			0.40	0.01		0.81	0.06	0.04			0.97	0.43	0.92	3.64	MILE	WORK ZONE PAVEMENT MARKING, MISC.: LANE LINE, CLASS I, 5" 642 PAINT	60
614	98000			0.73	0.54		0.44	0.31	0.24				0.30	0.34	2.89	MILE	WORK ZONE PAVEMENT MARKING, MISC.: CENTER LINE, CLASS I, 5" 642 PAINT, DOUBLE SOLID	60
614	98000			1.12	0.71		0.39	0.49	0.47				0.66	0.16	4.00	MILE	WORK ZONE PAVEMENT MARKING, MISC.: EDGE LINE, CLASS I, 5", 642 PAINT, WHITE	60
614	98000						0.04	0.03				0.78	0.27	0.36	1.47	MILE	WORK ZONE PAVEMENT MARKING, MISC.: EDGE LINE, CLASS I, 5", 740.06, TYPE I, YELLOW	60
614	98100			2435	3130		2661	2403	1482			2540	2580	4582	21813	FT	WORK ZONE PAVEMENT MARKING, MISC.: CHANNELIZING LINE, CLASS I, 10" PAINT	60
614	98100			585	873		522	127	182			490	112	489	3380	FT	WORK ZONE PAVEMENT MARKING, MISC.: DOTTED LINE, 5", 740.06, TYPE I, WHITE	60
614	98100			270					152						422	FT	WORK ZONE PAVEMENT MARKING, MISC.: DOTTED LINE, 5", 740.06, TYPE I, YELLOW	60
614	98100			106	154		134	56	55			174	157	220	1056	FT	WORK ZONE PAVEMENT MARKING, MISC.: STOP LINE, 20", 642 PAINT	60
614	98200			17	17		20	22	12			22	27	26	163	EACH	WORK ZONE PAVEMENT MARKING, MISC.: ARROW, CLASS I, 642 PAINT	60
614	98200		1			1									3	EACH	WORK ZONE PAVEMENT MARKING, MISC.: LANE REDUCTION ARROW, CLASS I, 642 PAINT	60
614	98200		4			4									8	EACH	WORK ZONE PAVEMENT MARKING, MISC.: ROUTE SHIELD SYMBOL, CLASS I, 642 PAINT	60
615	10000														LS		ROADS FOR MAINTAINING TRAFFIC	
615	25000		2123	1357	2649	1988		868	282	1189					10456	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B	
616	10000	737													737	MGAL	WATER	60
618	40101	11200													11200	FT	RUMBLE STRIPS, (ASPHALT CONCRETE), AS PER PLAN	65
622	41060	1													1	EACH	DUAL PORTABLE BARRIER TRANSITION/TERMINATION	
622	41100		17630	1431	2656	10820		1371	548	8070				4380	46906	FT	PORTABLE BARRIER, UNANCHORED	
622	41110		80		90			321							491	FT	PORTABLE BARRIER, ANCHORED	
808	18700	120													120	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	60
829	00100	12													12	SNMT	WORK ZONE EGRESS WARNING SYSTEM	65
TOTALS CARRIED TO GENERAL SUMMARY SHEET																		

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MOT PRE-PHASE 1 SEQUENCE OF CONSTRUCTION

1. CONSTRUCT THE NORTH HALF OF CHATFORD DR VIA PART-WIDTH SIGNALIZED ONE LANE TWO WAY TRAFFIC.
2. REMOVE THE MEDIAN ISLANDS ON BRICE ROAD AND INSTALL TEMPORARY PAVEMENT. CLOSE THE NB AND SB LANES ADJACENT TO THE MEDIAN ISLANDS USING STANDARD DRAWING MT-95.30, DURING THE HOURS OF 9 AM TO 3 PM, WEEKDAYS, WHERE THE MEDIAN IS ADJACENT TO DUAL LEFT TURN LANES (SB BRICE RD TO TUSSING RD AND NB BRICE RD TO THE IR-70 WB RAMP) THE LEFT MOST TURN LANE SHALL BE CLOSED DURING CONSTRUCTION. TO CONSTRUCT THE TEMPORARY PAVEMENT AT THE NB BRICE LEFT TURN LANE TO SCARBOROUGH BLVD, A DETOURED FOR THIS MOVEMENT IS PROVIDED ON SHEET 87. IF THE MEDIAN REMOVAL AND REPLACEMENT WITH TEMPORARY PAVEMENT CANNOT BE COMPLETED IN ONE SHIFT, THE EXCAVATED AREA ADJACENT TO THE LANE SHALL BE ADDRESSED PER THE "TRENCH FOR WIDENING" AND "OVERNIGHT TRENCH CLOSING" NOTES LOCATED IN THE MAINTENANCE OF TRAFFIC NOTES. THE MEDIAN REMOVAL LIMITS AND MEDIAN REPLACEMENT WITH TEMPORARY PAVEMENT LIMITS ON BRICE ROAD ARE SHOWN ON SHEETS 111 - 122 AND THE QUANTITIES ARE PROVIDED ON SHEETS 69 - 70
3. REMOVE THE MEDIAN ISLAND ON SCARBOROUGH BLVD AND INSTALL TEMPORARY PAVEMENT. ONLY THE LANE SOUTH OF THE MEDIAN (THE LEFT MOST LEFT TURN LANE) SHALL BE CLOSED USING STANDARD DRAWING MT-95.30, DURING OFF PEAK HOURS ONLY. THE MEDIAN SHALL BE REMOVED AND REPLACED WITH TEMPORARY PAVEMENT DURING ONE OPERATION. THE MEDIAN REMOVAL LIMIT AND MEDIAN REPLACEMENT ON SCARBOROUGH BLVD IS SHOWN ON SHEET 112 AND THE QUANTITIES ARE PROVIDED ON SHEET 69
4. INSTALL TEMPORARY PAVEMENT ON RAMP N, SEE DETAILS ON SHEET 89
5. CONSTRUCT THE TEMPORARY PAVEMENT ALONG RAMP F AND RAMP D2 UTILIZING SHOULDER CLOSURES.
6. CONSTRUCT RAMP G1 TEMPORARY PAVEMENT
7. CONSTRUCT THE PROPOSED DMS FOUNDATIONS AT IR-70 STA. 632+12 TO ENSURE THAT THE DMS CAN BE OPERATIONAL AS SOON AS THE NEW TRUSS IS ERECTED AND THE EXISTING DMS CAN BE RELOCATED. A QUANTITY OF PORTABLE BARRIER AND IMPACT ATTENUATOR IS PROVIDED TO CONSTRUCT THE MEDIAN FOUNDATION.

ONLY REMOVE AS MUCH MEDIAN ISLAND AS CAN THEN BE REPLACED WITH TEMPORARY PAVEMENT DURING OFF PEAK HOURS.

ALL LANES OF TRAFFIC SHALL BE MAINTAINED ON I-70 AND I-270 DURING THIS PHASE.

8. CONSTRUCT PARTIAL TRUNK LINE STORM SEWER ON THE EAST SIDE OF BRICE ROAD AS INDICATED IN MOT NOTES SHEET 60.

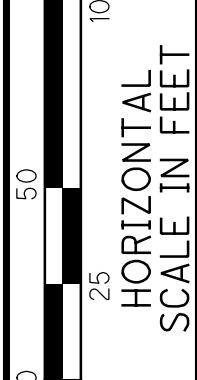
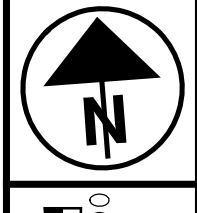
CALCULATED	JZM	CHECKED	EMK
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**MAINTENANCE OF TRAFFIC
PRE-PHASE 1 SCHEMATIC**

FRA-70-22.85

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1356

* TEMPORARY SHORING: CONTRACTOR RESPONSIBLE FOR TEMPORARY SHORING DESIGN AT THE LOCATION SHOWN. THE SELECTED SHORING DESIGN SHALL NOT IMPACT EXISTING UTILITIES. ALL COST ARE INCIDENTAL TO MOT.

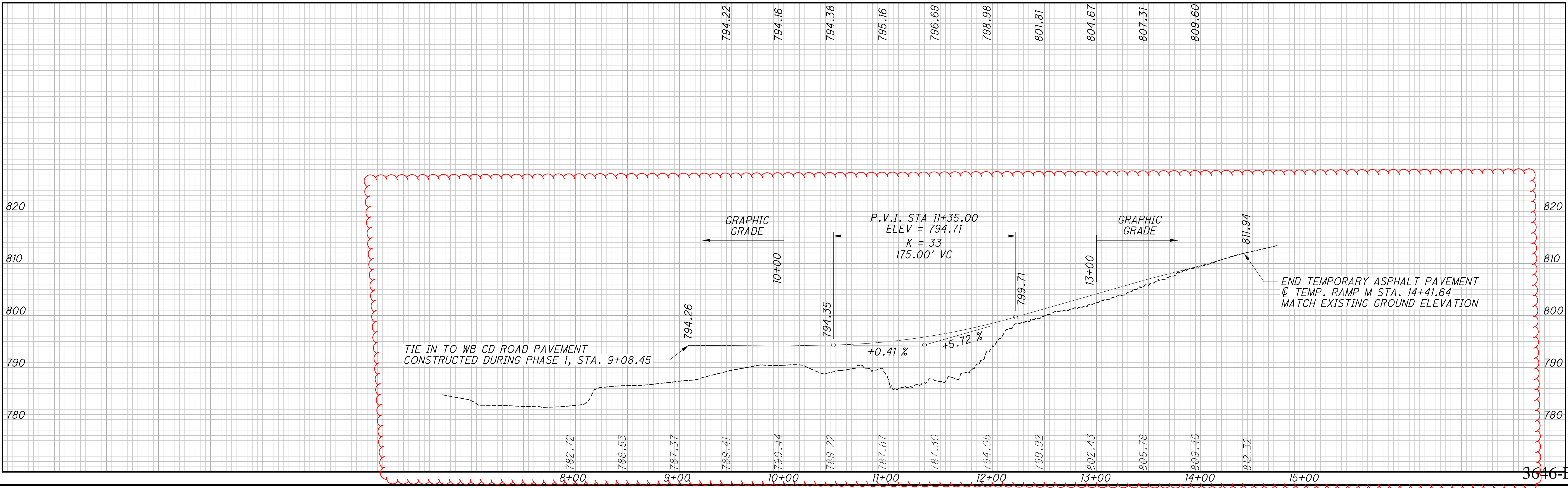
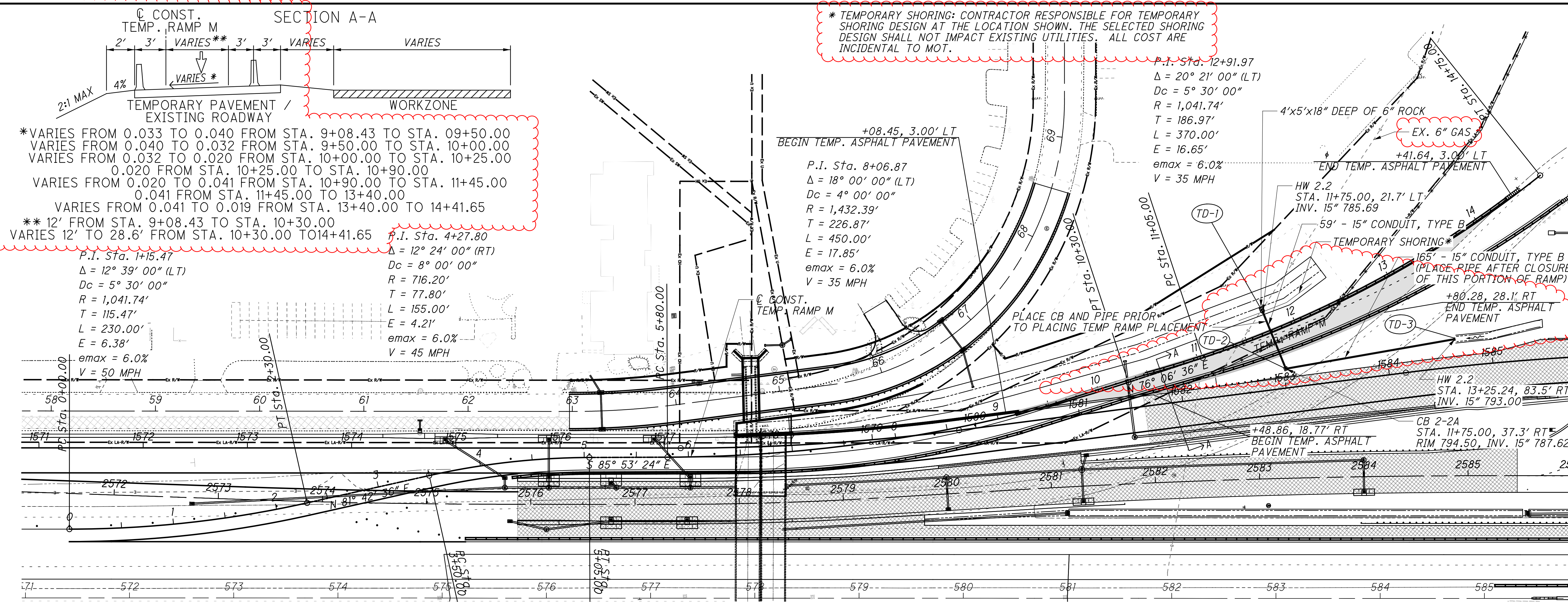


CALCULATED
MDV
CHECKED
MRT

MAINTENANCE OF TRAFFIC PLAN - PHASE 2
TEMPORARY PAVEMENT - CONST. RAMP M

FRA-70-22.85

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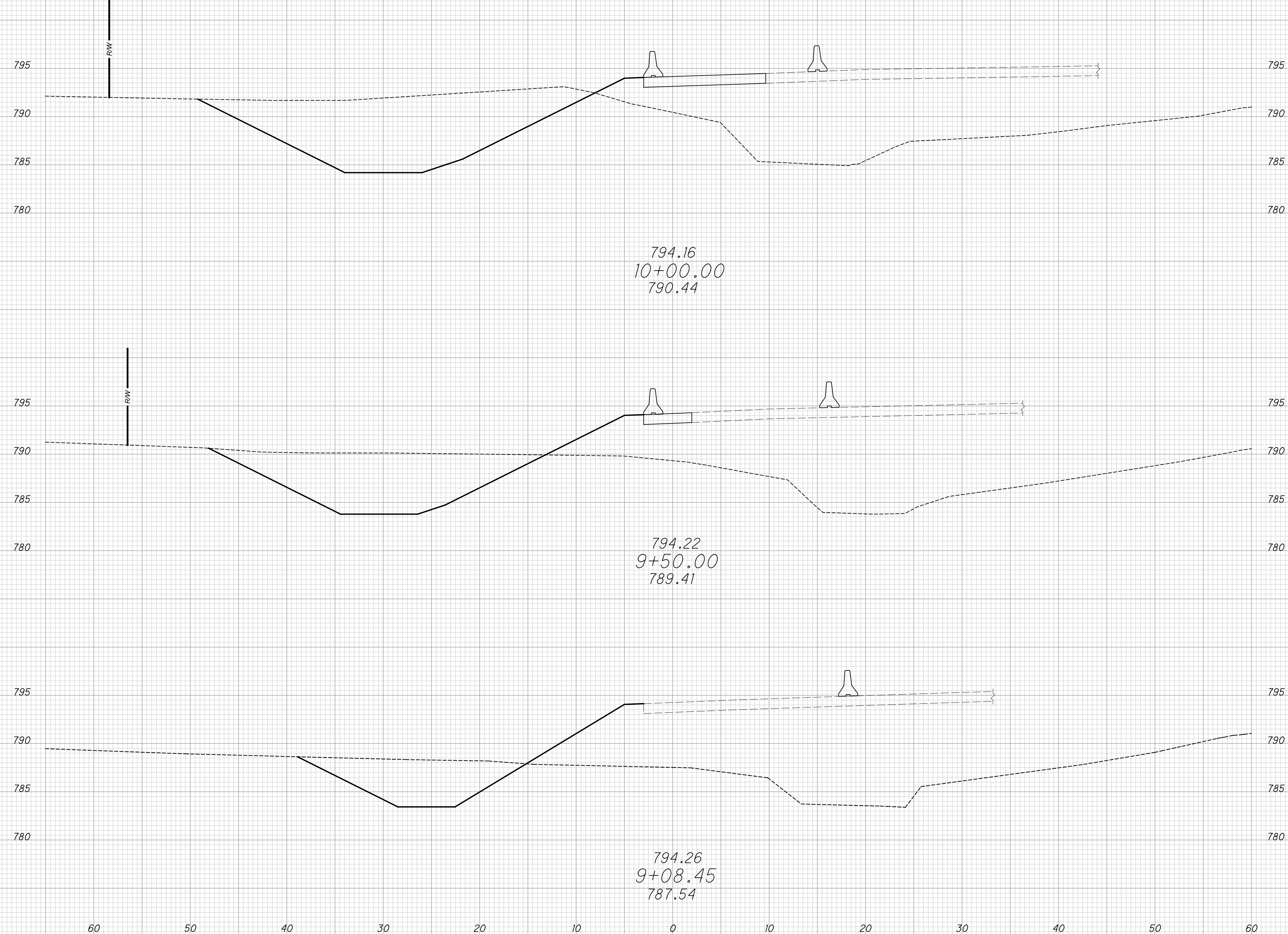
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SEEDING

END WIDTH	SO. YDS.

END AREA **VOLUME**

CUT	FILL	CUT	FILL	CALCULATED RNK	CHECKED EMK
3646-E				134A	1356

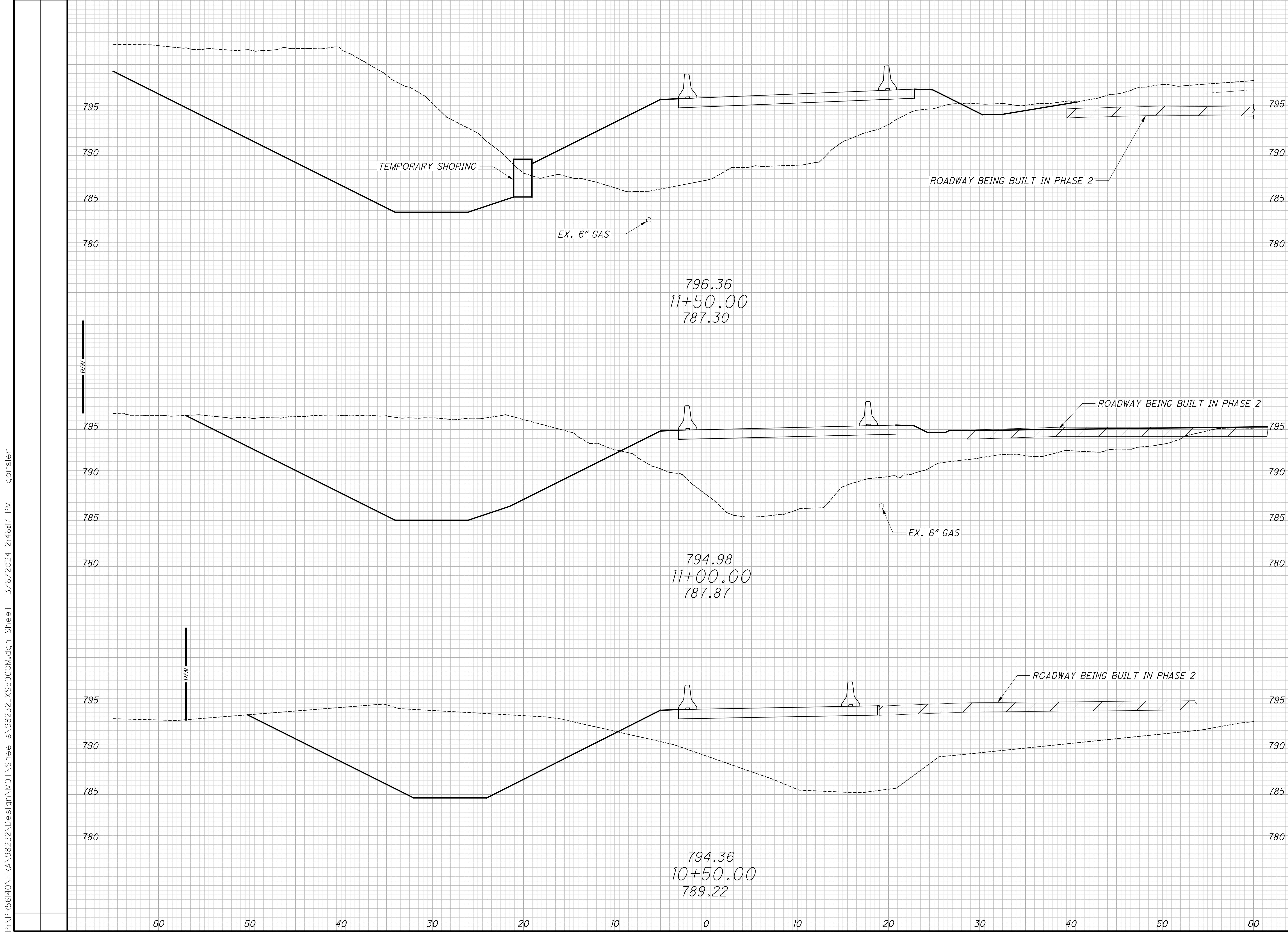


TEMPORARY PAVEMENT - RAMP M
STA. 9+08.45 TO STA. 10+00.00

FRA-70-22.85

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED
RNK
CHECKED
EMK



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TEMPORARY PAVEMENT - RAMP M
STA. 10+50.00 TO STA. 11+50.00

FRA-70-22.85

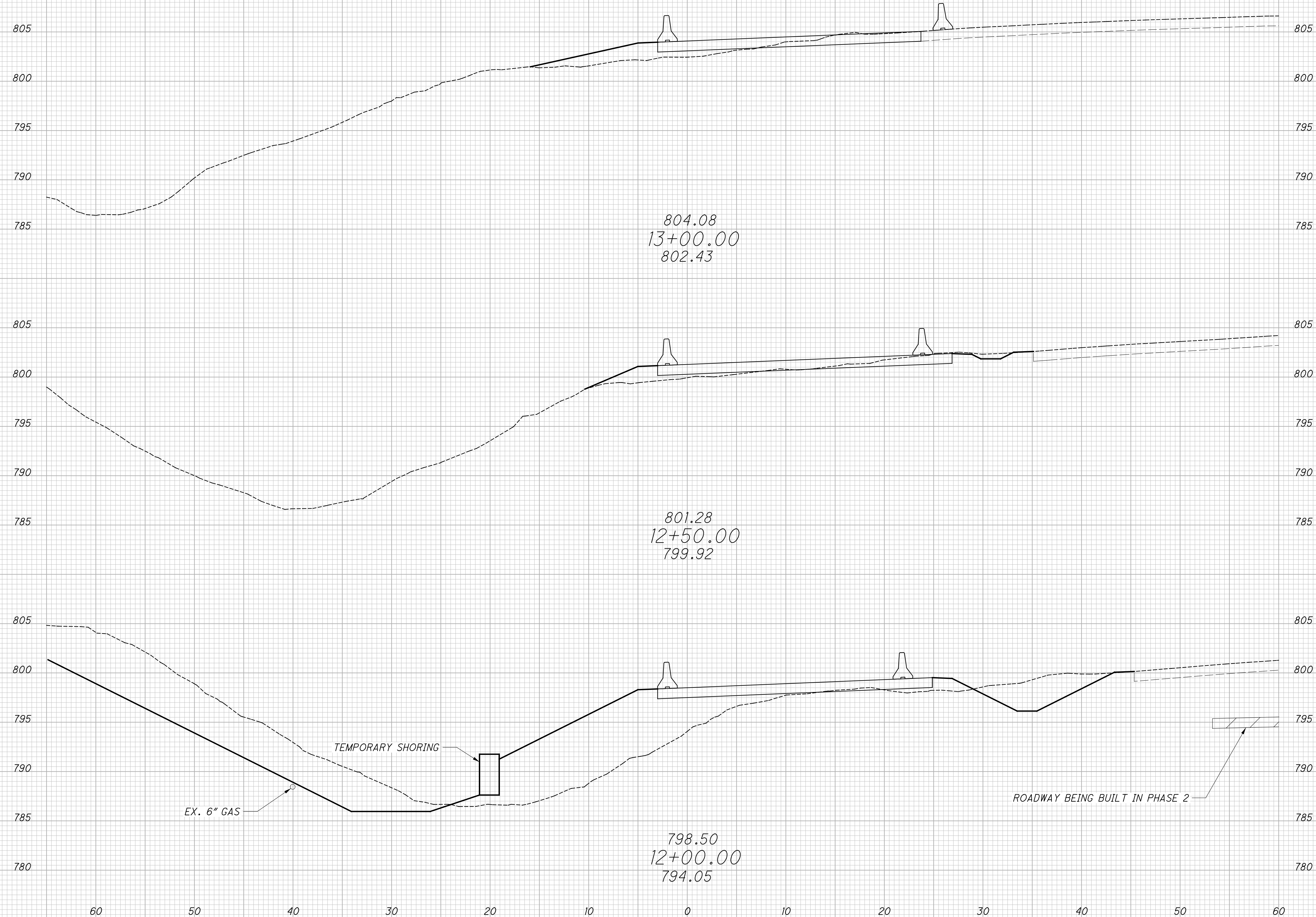
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SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED
RNK
CHECKED
EMK



TEMPORARY PAVEMENT - RAMP M
STA. 12+00.00 TO STA. 13+00.00

FRA-70-22.85

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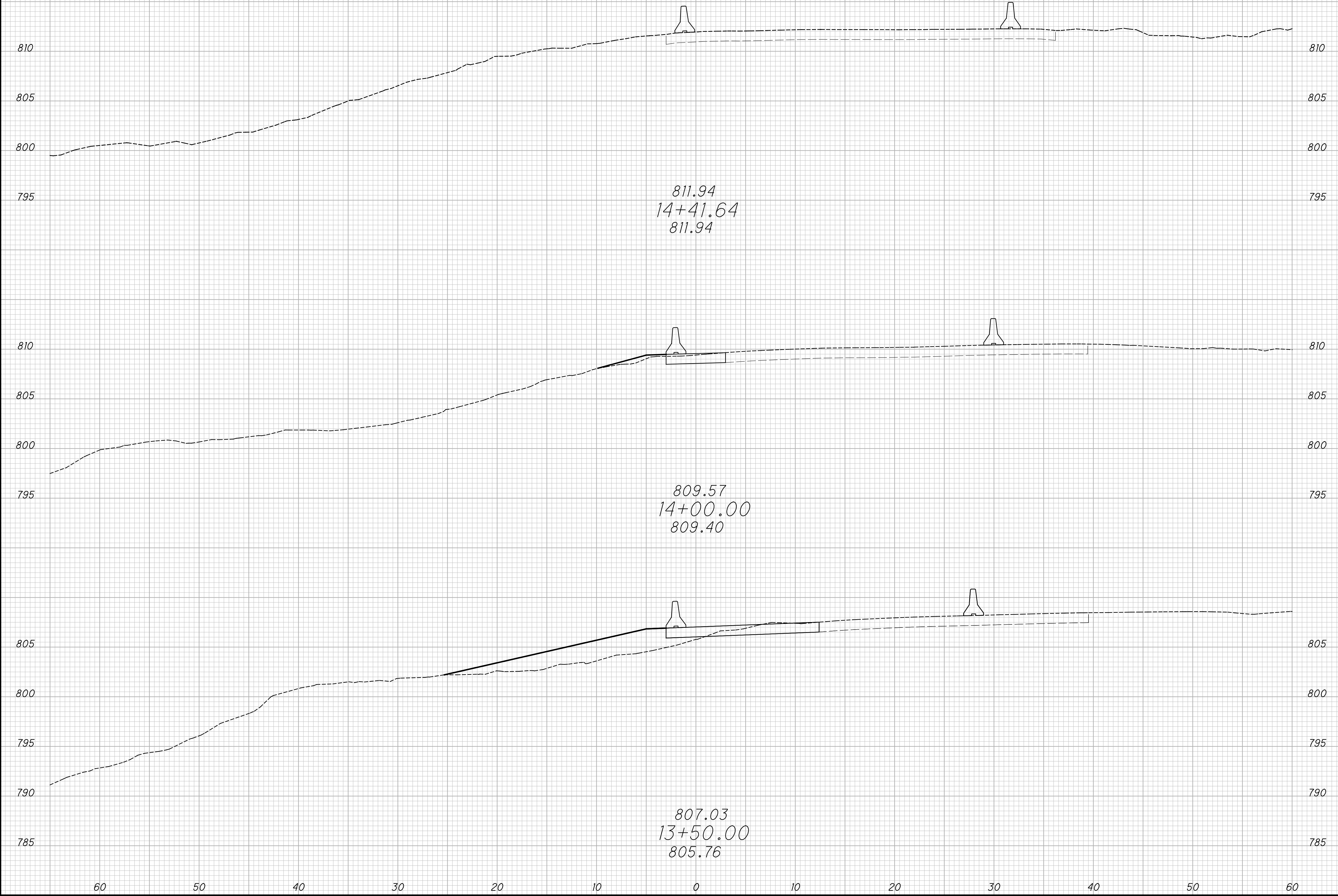
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SEEDING

END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	RNK	CHECKED
FRA-70-22.85 TEMPORARY PAVEMENT - RAMP M STA. 13+50.00 TO STA. 14+41.64					
134D 1356					



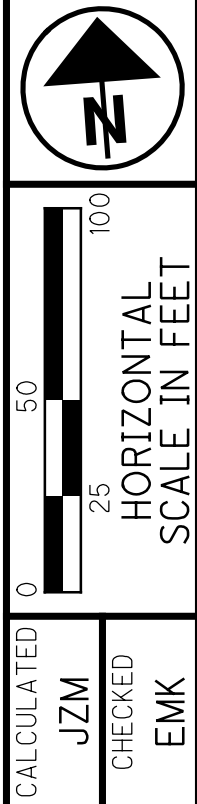
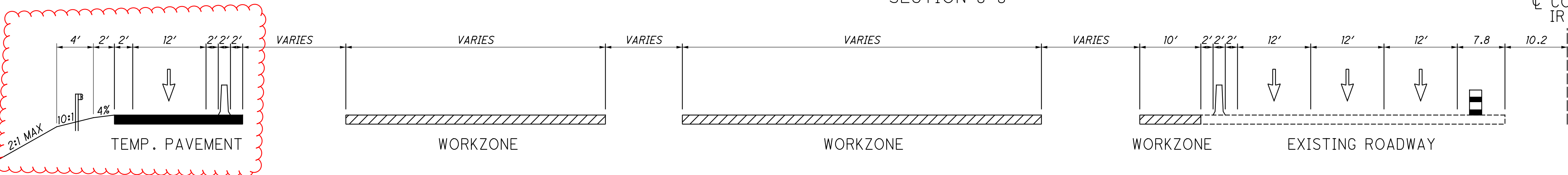
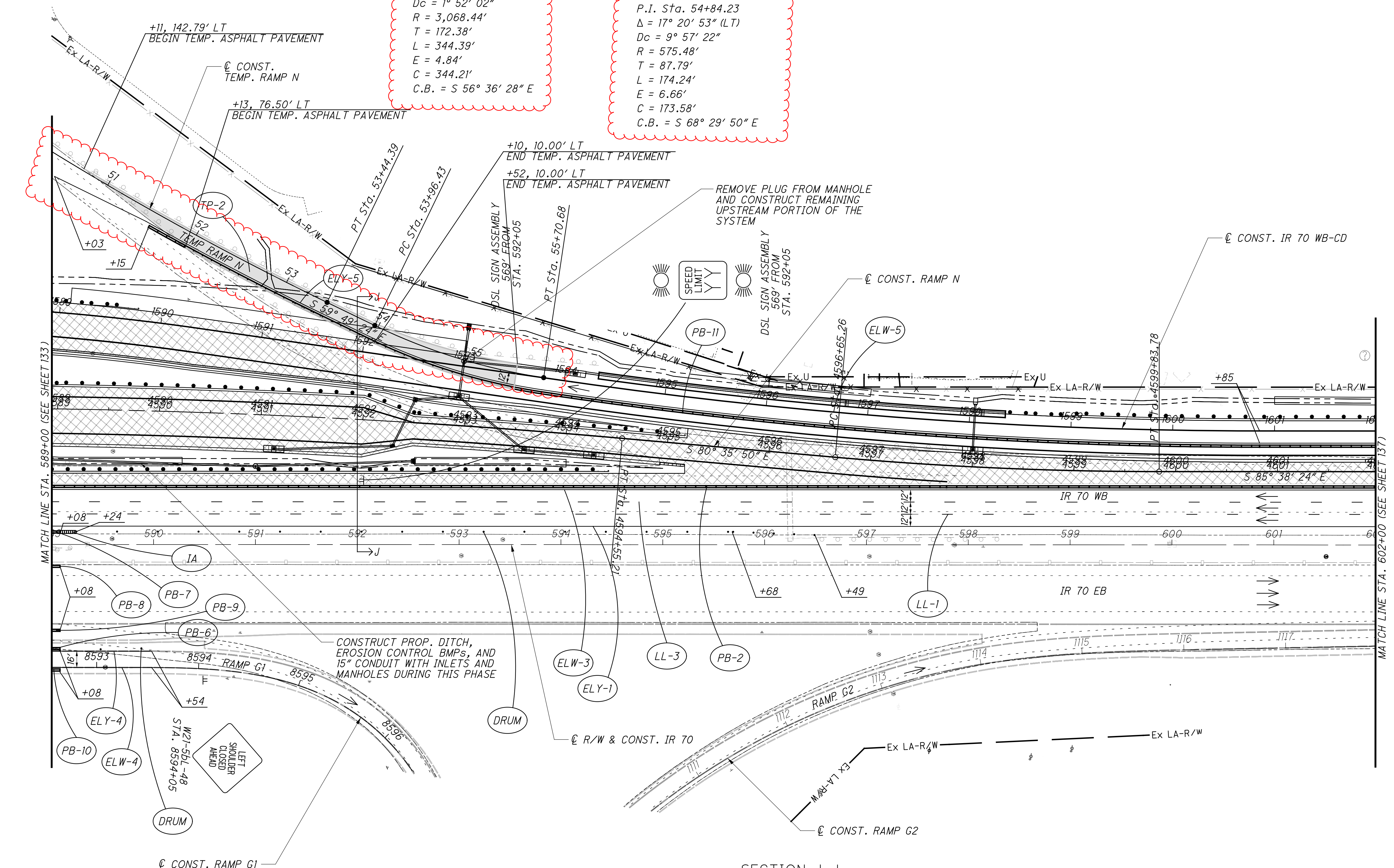
3646-E

NOTES:
 1. MAINTENANCE OF TRAFFIC LEGENDS CAN BE FOUND ON SHEET 88

REMOVE AND RE-ERECT ALL EXISTING SIGNS ALONG RAMP N.

P.I. Sta. 51+72.38
 $\Delta = 6^\circ 25' 51''$ (LT)
 $Dc = 1^\circ 52' 02''$
 $R = 3,068.44'$
 $T = 172.38'$
 $L = 344.39'$
 $E = 4.84'$
 $C = 344.21'$
 $C.B. = S 56^\circ 36' 28'' E$

P.I. Sta. 54+84.23
 $\Delta = 17^\circ 20' 53''$ (LT)
 $Dc = 9^\circ 57' 22''$
 $R = 575.48'$
 $T = 87.79'$
 $L = 174.24'$
 $E = 6.66'$
 $C = 173.58'$
 $C.B. = S 68^\circ 29' 50'' E$



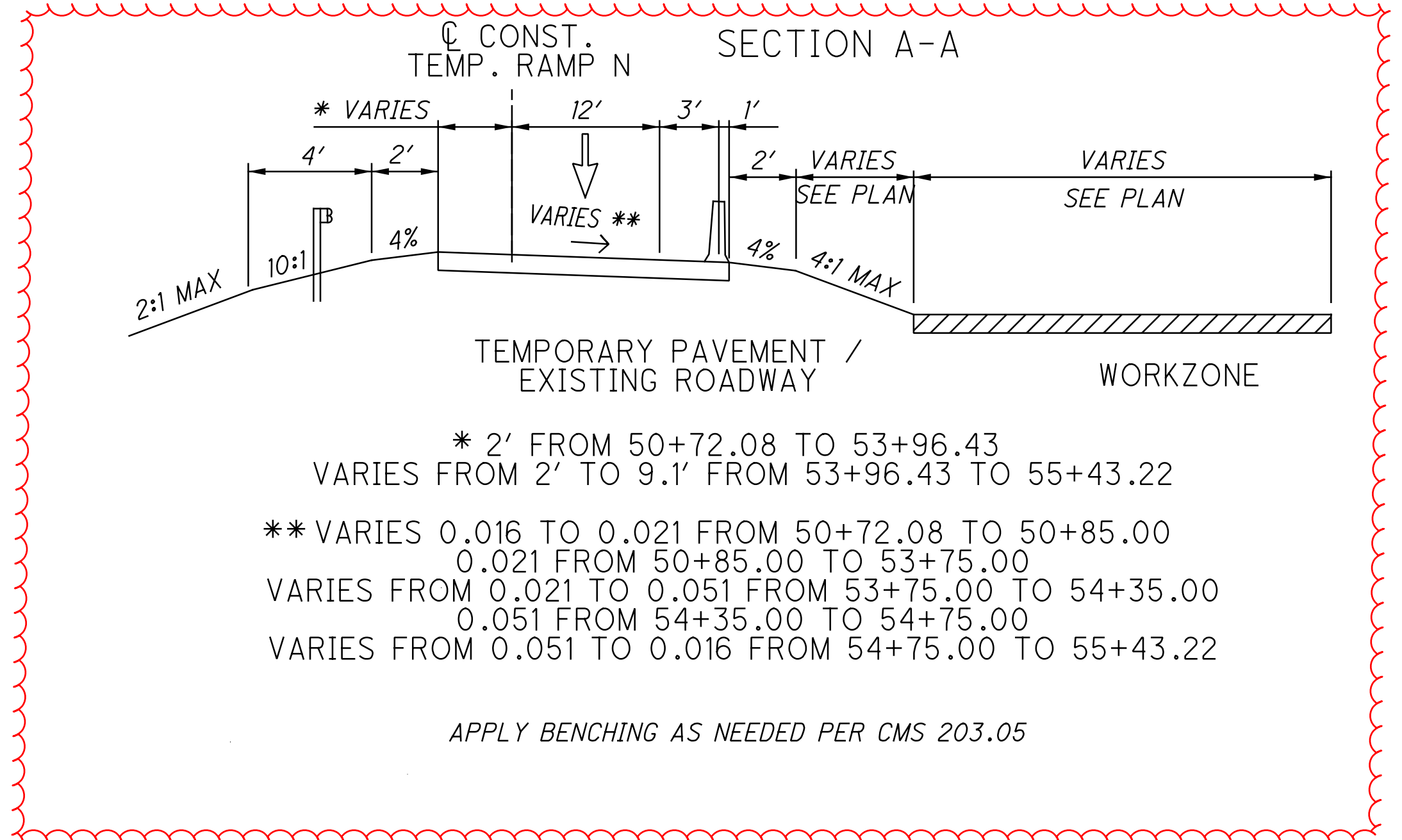
CALCULATED JZM CHECKED EMK
MAINTENANCE OF TRAFFIC PLAN - PHASE 2
STA. 582+00 TO STA. 596+00

FRA-70-22.85

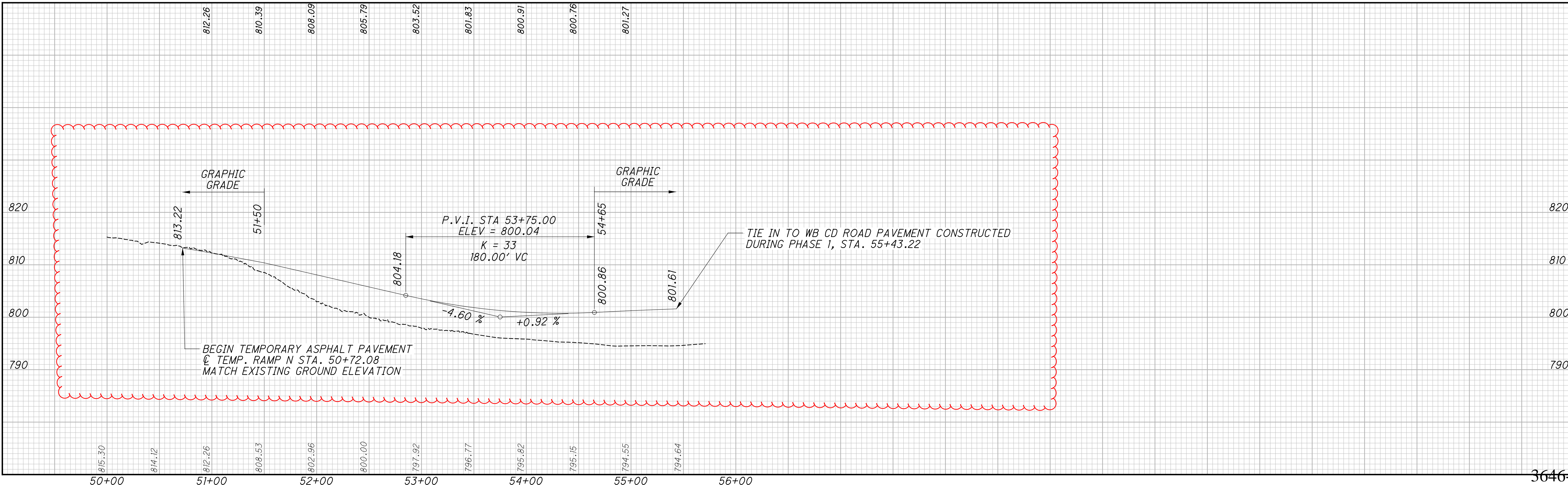
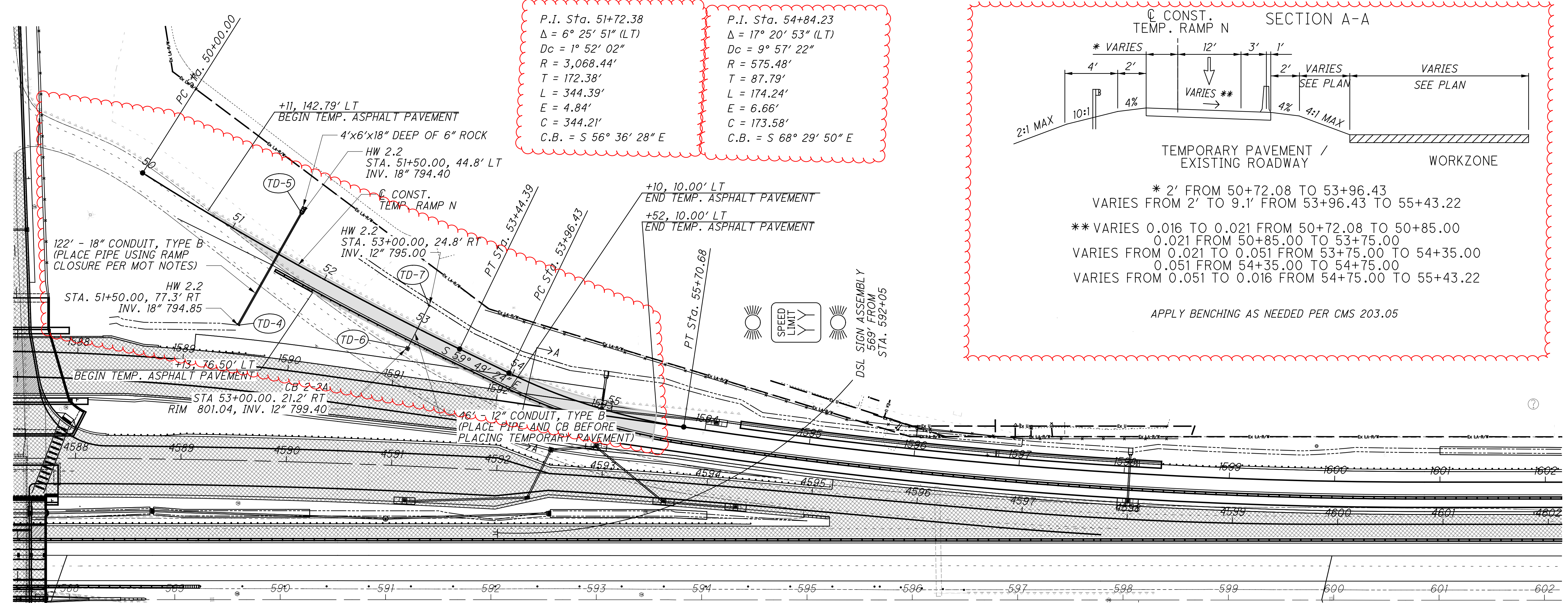
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3646-E

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P.I. Sta. 51+72.38 $\Delta = 6^\circ 25' 51''$ (LT) $D_c = 1^\circ 52' 02''$ $R = 3,068.44'$ $T = 172.38'$ $L = 344.39'$ $E = 4.84'$ $C = 344.21'$ C.B. = S $56^\circ 36' 28''$ E	P.I. Sta. 54+84.23 $\Delta = 17^\circ 20' 53''$ (LT) $D_c = 9^\circ 57' 22''$ $R = 575.48'$ $T = 87.79'$ $L = 174.24'$ $E = 6.66'$ $C = 173.58'$ C.B. = S $68^\circ 29' 50''$ E
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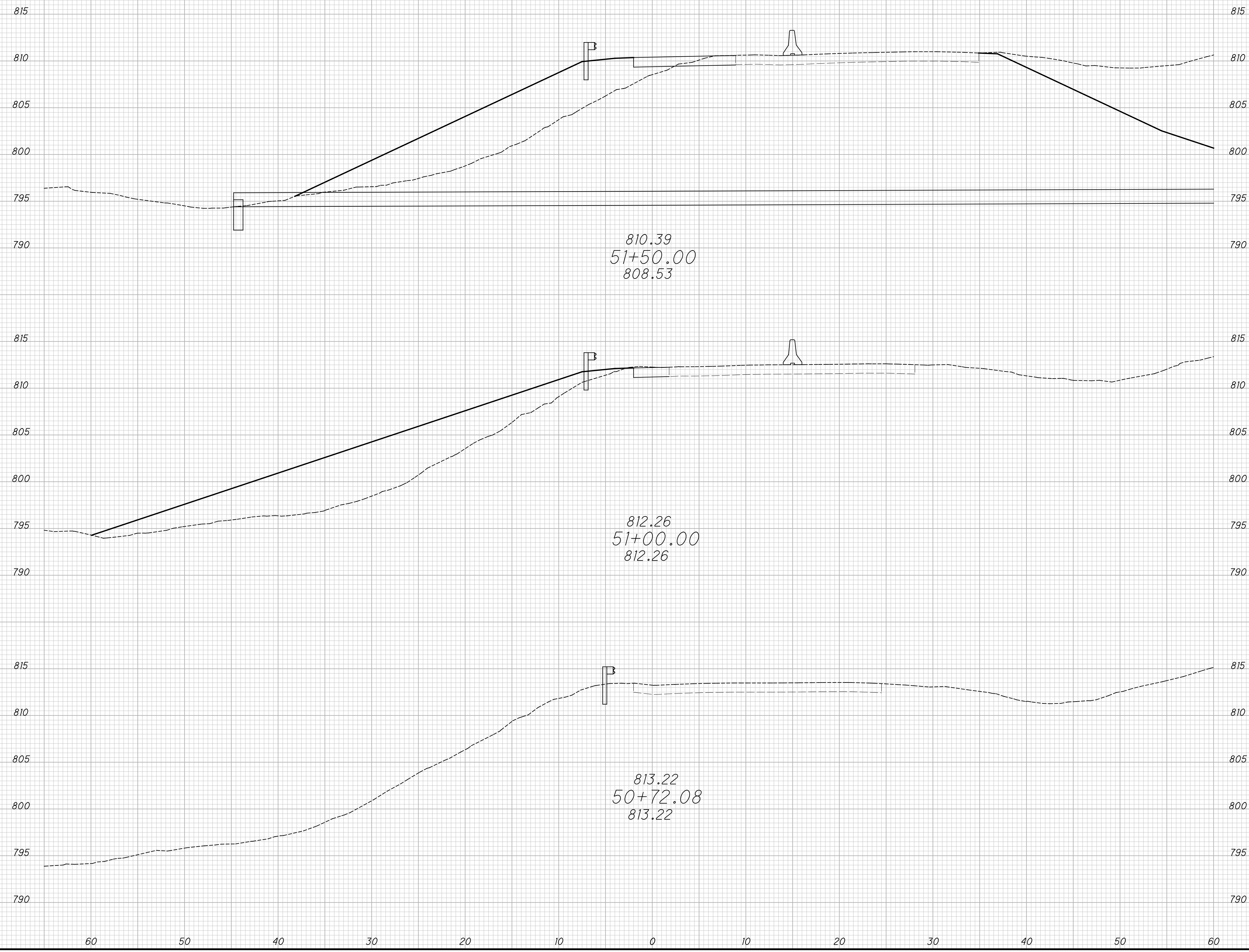


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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	RNK	CHECKED



TEMPORARY PAVEMENT - RAMP N
STA. 50+72.08 TO STA. 51+50.00

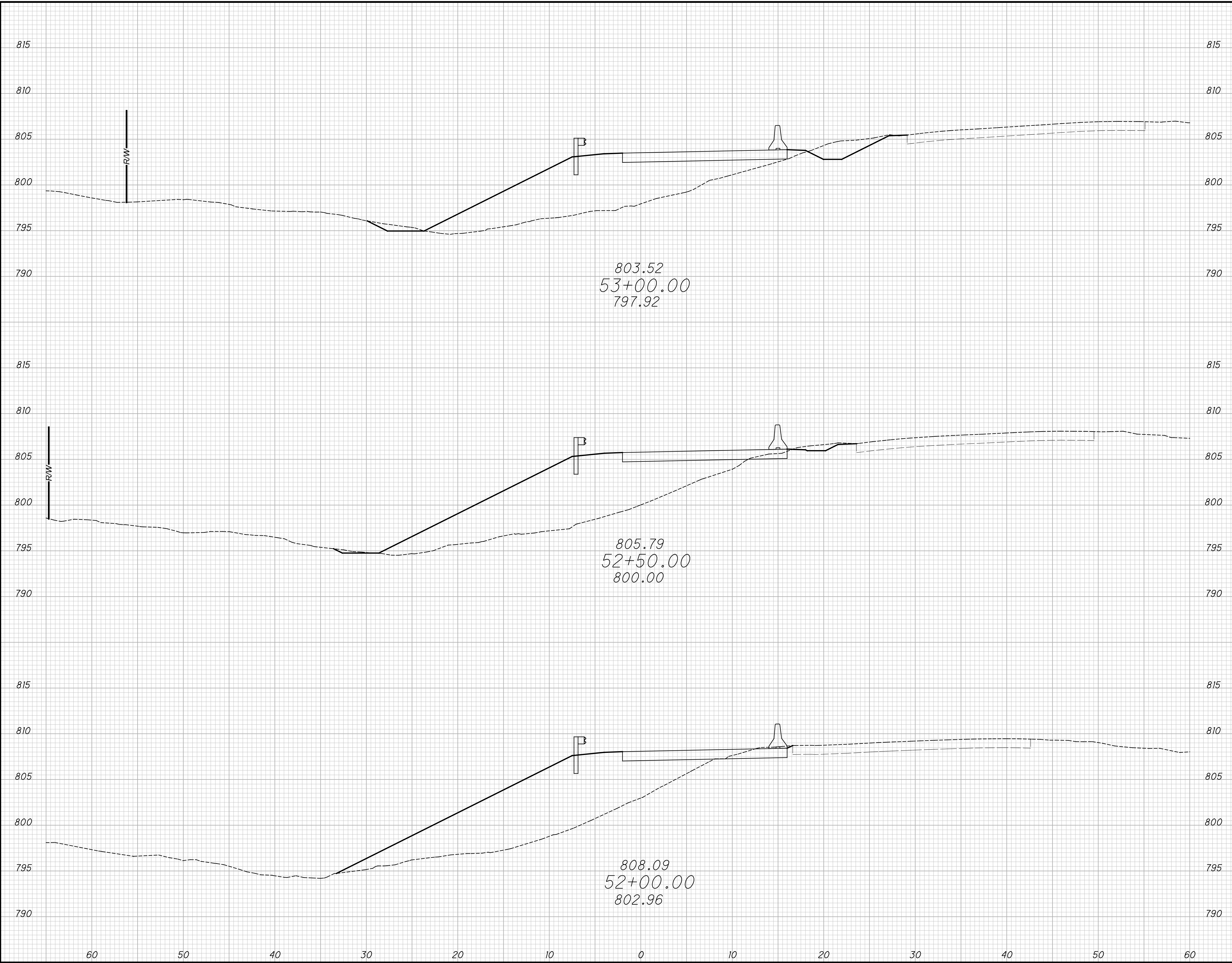
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1356

3646-E

SEEDING

END WIDTH	SO. YDS.



END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	RNK	EMK
		3646-E		136B	1356

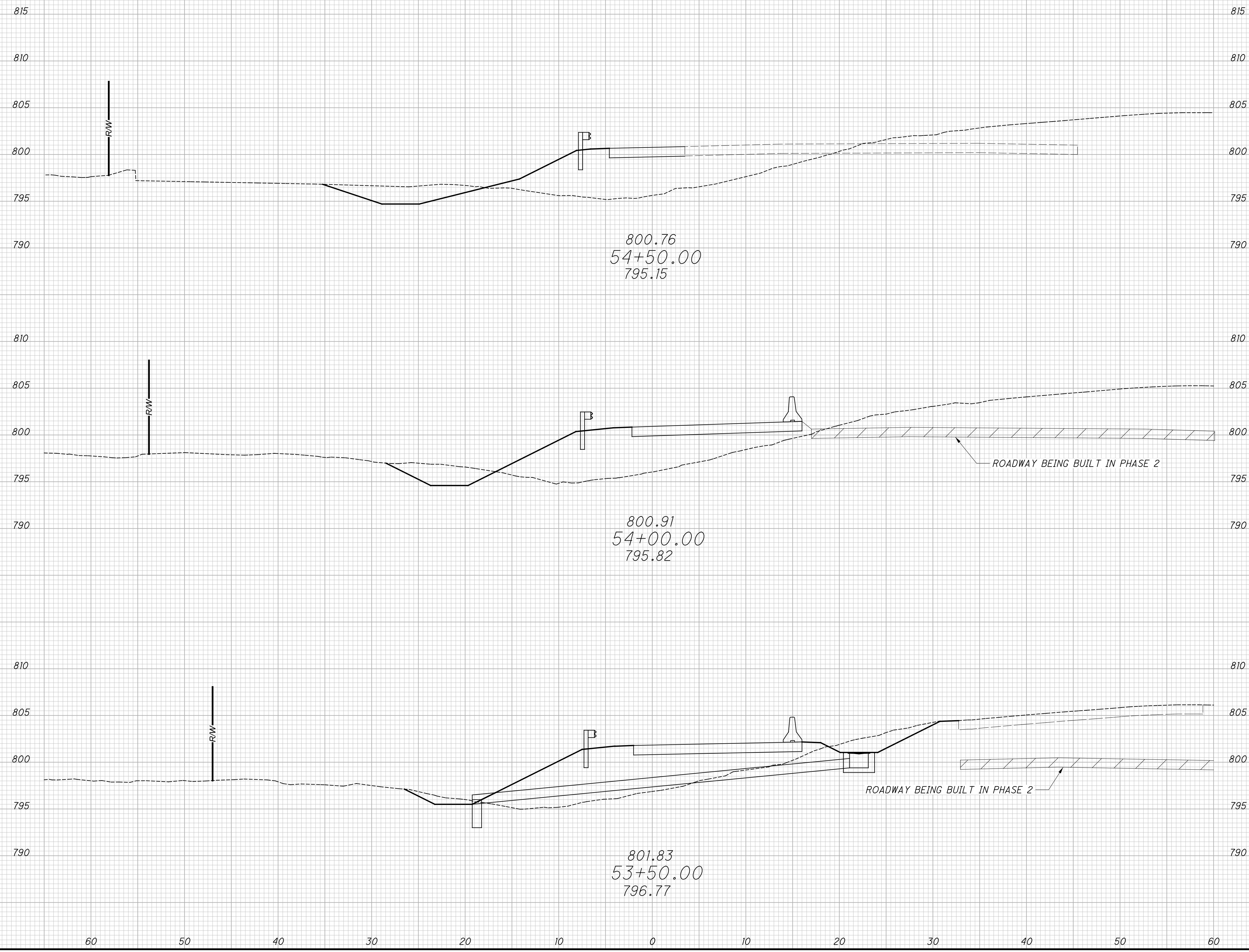
TEMPORARY PAVEMENT - RAMP N
STA. 52+00.00 TO STA. 53+00.00

FRA-70-22.85

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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	RNK	EMK



TEMPORARY PAVEMENT - RAMP N
STA. 53+50.00 TO 54+50.00

FRA-70-22.85

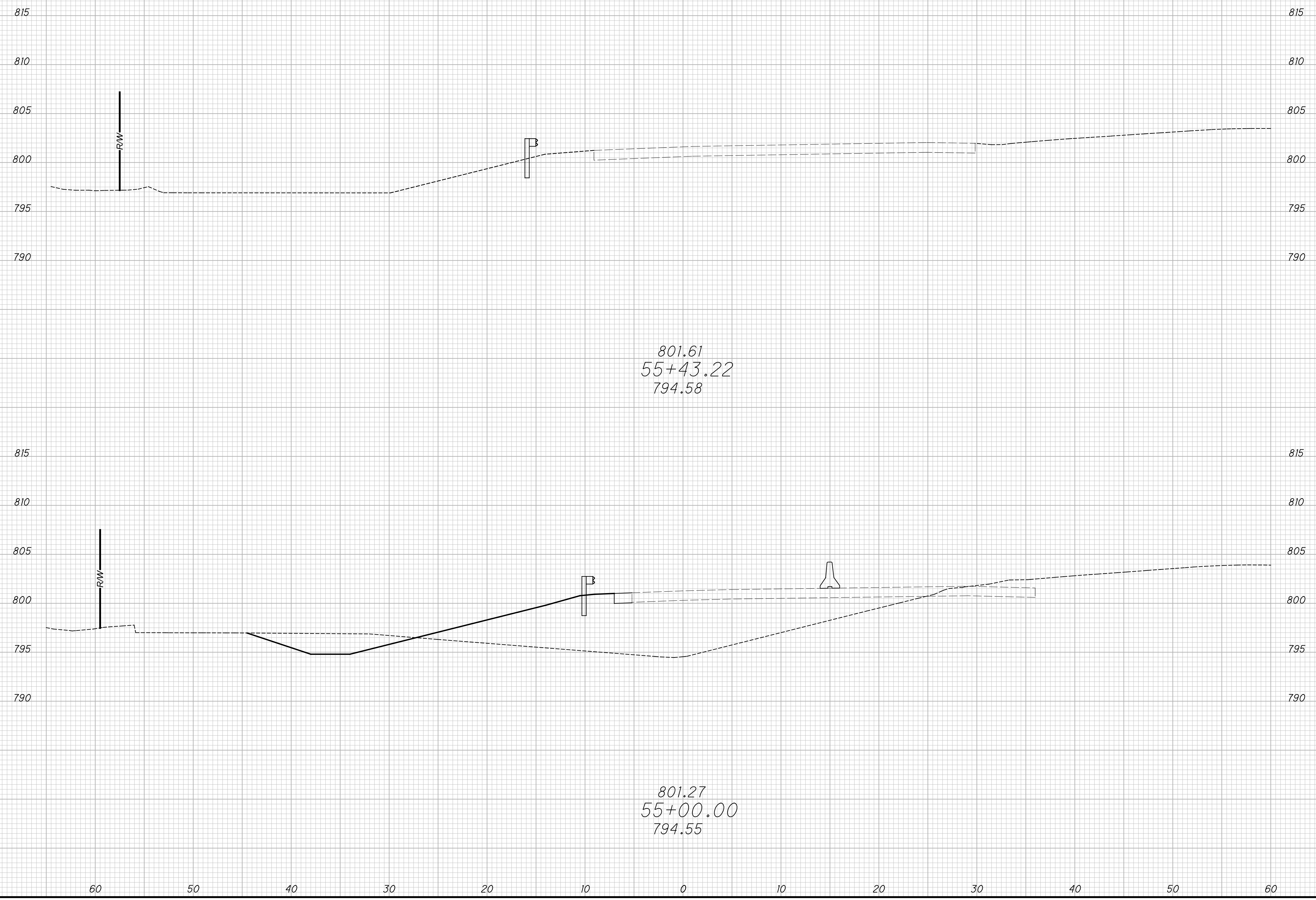
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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	RNK	EMK



TEMPORARY PAVEMENT - RAMP N
STA. 55 + 43.22

FRA - 70 - 22.85

136D
1356

3646-E

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SHEET NUM.										PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
56	238	245	246	247	248	253	724	827		01/NHS/03	03/IMS/04	06/S>2/03						
DRAINAGE CONT.																		
				5	6							11	611	98150	11	EACH	CATCH BASIN, NO. 3, AS PER PLAN	847
				12	13 11							13 23	611	98180	13	EACH	CATCH BASIN, NO. 3A	
		2	5									7	611	98181	23	EACH	CATCH BASIN, NO. 3A, AS PER PLAN	847
			1									1	611	98300	1	EACH	CATCH BASIN, NO. 5	
		5	2		1							1	611	98341	1	EACH	CATCH BASIN, NO. 5A	
		2			1							8	611	98370	8	EACH	CATCH BASIN, NO. 6	
		4										2	611	98410	2	EACH	CATCH BASIN, NO. 8	
												4	611	98411	4	EACH	CATCH BASIN, NO. 8, AS PER PLAN	850
				1	2							3	611	98451	3	EACH	CATCH BASIN, NO. 2-2A, AS PER PLAN	849
3												3	611	98630	3	EACH	CATCH BASIN ADJUSTED TO GRADE	
		14	2									16	611	99110	16	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1	
		6	8									14	611	99114	14	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D	
		1										1	611	99115	1	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN	851
		14	3		2							17	611	99574	19	EACH	MANHOLE, NO. 3	
				16	9							25	611	99575	25	EACH	MANHOLE, NO. 3, AS PER PLAN	849
3												3	611	99654	3	EACH	MANHOLE ADJUSTED TO GRADE	
2						33						2	611	99710	35	EACH	PRECAST REINFORCED CONCRETE OUTLET	
							132						613	41200	132	CY	LOW STRENGTH MORTAR BACKFILL	
PAVEMENT																		
	124,026											97,311	254	01000	124,026	SY	PAVEMENT PLANING, ASPHALT CONCRETE, VARIABLE DEPTH	
	33,524											27,746	301	56000	33,524	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
	26,995											6,735	304	20000	26,995	CY	AGGREGATE BASE	
	37,896											17,063	407	20000	37,896	GAL	NON-TRACKING TACK COAT	
	108											108	441	70000	108	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22, (SHARED-USE PATH)	
	151											151	441	70300	151	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449), (SHARED-USE PATH)	
	9											9	441	70500	9	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)	
	12											12	441	70700	12	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449), (DRIVEWAYS)	
	48											48	441	70800	48	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL)	
	16,491											8,037	442	00100	16,491	CY	ANTI-SEGREGATION EQUIPMENT	55
	7,016											3,114	442	10001	7,016	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN, PG70-22M	55
	552											552	442	10001	552	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN, PG76-22M	55
	10,997											4,371	442	10080	10,997	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	
	2,074											2,074	442	20000	2,074	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448)	
	1,354											1,354	452	12010	1,354	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
	9,974											9,974	452	13010	9,974	SY	9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
	4.31											4.31	618	40600	4.31	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	56
	17,026											17,026	SPECIAL	69012060	17,026	SY	PAVEMENT OVERLAY FABRIC COMPOSITE	56
	37,000											37,000	872	10000	37,000	FT	VOID REDUCING ASPHALT MEMBRANE (VRAM)	56
WATER WORK																		
								566				566	SPECIAL	63820046	566	FT	6" WATER MAIN DIP CLASS 52 PUSH ON JOINTS AND FITTINGS, COC 801	
								99				99	SPECIAL	63820086	99	FT	8" WATER MAIN DIP CLASS 52 PUSH ON JOINTS AND FITTINGS, COC 806	
								1,183				1,183	SPECIAL	63820168	1,183	FT	12" WATER MAIN DIP CLASS 52 MECHANICAL JOINTS AND FITTINGS, COC 801	
								384				384	SPECIAL	63820464	384	FT	24" STEEL PIPE ENCASEMENT, BORED OR JACKED, COC 806	
								1				1	SPECIAL	63820498	1	EACH	VALVE BOX, COC 802	
								8				8	SPECIAL	63820500	8	EACH	VALVE BOX ADJUSTED TO GRADE, COC 807	
								5				5	SPECIAL	63820538	5	EACH	6" GATE VALVE WITH VALVE BOX, COC 802	
								1				1	SPECIAL	63820554	1	EACH	8" GATE VALVE WITH VALVE BOX, COC 802	
								3				3	SPECIAL	63820596	3	EACH	12" CUTTING IN SLEEVE, COC 801	
								7				7	SPECIAL	63820706	7	EACH	12" X 6" TAPPING SLEEVE, VALVE AND VALVE BOX, COC 803	
								1				1	SPECIAL	63820742	1	EACH	1" AIR RELEASE VALVE WITH VALVE BOX, COC 812	
								5				5	SPECIAL	63820750	5	EACH	6" FIRE HYDRANT, COC 809	
								1				1	SPECIAL	63820754	1	EACH	FIRE HYDRANT REMOVED AND RESET, COC 809	
								5				5	SPECIAL	63820760	5	EACH	FIRE HYDRANT REMOVED AND DISPOSED OF, COC 809	
								23				23	SPECIAL	63820796	23	FT	RETAP, RECONNECT AND EXTEND 3/4" COPPER WATER SERVICE CONNECTION, COC 808	
								94				94	SPECIAL	63820836	94	FT	RETAP, RECONNECT AND EXTEND 1 1/2" COPPER WATER SERVICE CONNECTION, COC 808	
								45				45	SPECIAL	63820860	45	FT	LOWER AND EXTEND 2" COPPER WATER SERVICE CONNECTION, COC 808	
								18				18	SPECIAL	63820866	18	FT	RETAP, RECONNECT AND EXTEND 2" POLYETHYLENE WATER SERVICE CONNECTION, COC 808	
								1				1	SPECIAL	63820896	1	EACH	1 1/2" CORPORATION STOP, COC 803	
								1				1	SPECIAL	63820902	1	EACH	SERVICE BOX ADJUSTED TO GRADE, COC 807	
								2				2	638	98000	2	EACH	WATER WORK, MISC.: DRY STAND PIPE	827

GENERAL SUMMARY

FRA-70-22.85

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SHEET NUM.										PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
1057	1071									02/NHS/13	04/IMS/13	06/S>2/03						
STRUCTURE 20 FOOT SPAN AND UNDER (FRA-CHTFD-00.160)																		
LS												LS	201	11001	LS		CLEARING AND GRUBBING, AS PER PLAN	1063
LS												LS	202	11000	LS		STRUCTURE REMOVED	
LS												LS	503	11101	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN	1063
247												247	503	21100	247	CY	UNCLASSIFIED EXCAVATION	
1,898												1,898	509	10000	1,898	LB	EPOXY COATED STEEL REINFORCEMENT, FOOTING AND HEADWALL	
19												19	511	46510	19	CY	CLASS QC1 CONCRETE, FOOTING	
1												1	511	46611	1	CY	CLASS QC1 CONCRETE, HEADWALL, AS PER PLAN	1063
33												33	512	10050	33	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
220												220	512	33000	220	SY	TYPE 2 WATERPROOFING	
16												16	516	13600	16	SF	1" PREFORMED EXPANSION JOINT FILLER	
8												8	518	21200	8	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
14												14	601	11001	14	SY	RIPRAP, TYPE D, AS PER PLAN	1063
61.71												61.71	611	96315	61.71	FT	14' X 6' CONDUIT, TYPE A, 706.05, AS PER PLAN (3' COVER)	1063
220												220	613	41200	220	CY	LOW STRENGTH MORTAR BACKFILL	
WINGWALLS OPTION A: CAST-IN-PLACE																		
867												867	509	10000	867	LB	EPOXY COATED STEEL REINFORCEMENT, WINGWALLS	
6												6	511	46010	6	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING	
WINGWALLS OPTION B: PRECAST																		
155												155	851	10000	155	SF	PRECAST GRAVITY AND SEMIGRAVITY RETAINING WALL	
STRUCTURE OVER 20 FOOT SPAN (FRA-70-23.740)																		
LS										LS	LS		202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	1071
LS										LS	LS		503	11101	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN	1072
LS										LS	LS		503	21300	LS		UNCLASSIFIED EXCAVATION	
18,585										3,345	15,240		509	10000	18,585	LB	EPOXY COATED STEEL REINFORCEMENT	
912										164	748		509	30020	912	FT	NO. 4 DEFORMED GFRP REINFORCEMENT	
30										5	25		511	46010	30	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING	
106										19	87		511	46511	106	CY	CLASS QC1 CONCRETE, FOOTING, AS PER PLAN	1075
42										8	34		511	53012	42	CY	CLASS QC2 CONCRETE, MISC.: MOMENT SLAB AND BARRIER	1076
173										31	142		512	10100	173	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
482										87	395		512	33000	482	SY	TYPE 2 WATERPROOFING	
200										36	164		516	13600	200	SF	1" PREFORMED EXPANSION JOINT FILLER	
26										5	21		518	21200	26	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
50										9	41		518	40000	50	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
121										22	99		611	97400	121	FT	CONDUIT, MISC.: 22'x8' CONDUIT, TYPE A, 706.05, DESIGN COVER 5FT, AS PER PLAN	1071

GENERAL SUMMARY

FRA-70-22.85

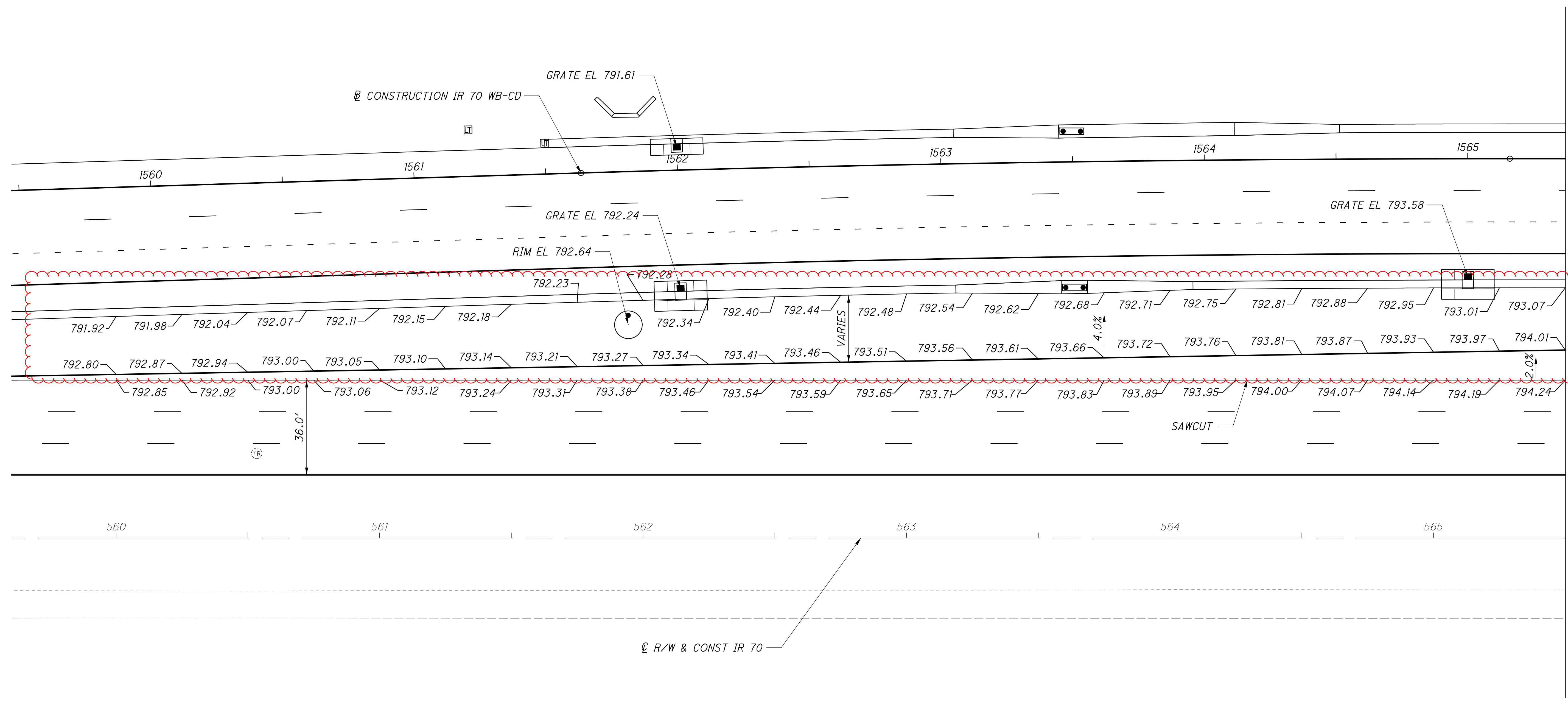
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SHEET NUM.										PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED TGW	CHECKED SUBJ	
										01/NHS/03	06/S>2/03									
67													611	99654	5	EACH	SANITARY SEWER MANHOLE ADJUSTED TO GRADE (SANITARY)			
																	MAINTENANCE OF TRAFFIC			
213											213		411	10000	213	CY	STABILIZED CRUSHED AGGREGATE			
3											3		601	32200	3	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER			
1.4											1.4		602	20000	1.4	CY	CONCRETE MASONRY			
1,346											858	488	606	15050	1,346	FT	GUARDRAIL, TYPE MGS			
1											1		606	26150	1	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)			
3											2	1	606	26500	3	EACH	ANCHOR ASSEMBLY, TYPE T			
46											46		611	04400	46	FT	12" CONDUIT, TYPE B			
224											224		611	05900	224	FT	15" CONDUIT, TYPE B			
122											122		611	07400	122	FT	18" CONDUIT, TYPE B			
2											2		611	98450	2	EACH	CATCH BASIN, NO. 2-2A			
1,000											1,000		614	1110	1,000	HOURL	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE			65
6											6		SPECIAL	6141300	6	EACH	WORK ZONE TRAFFIC SIGNAL			64
46,466											46,466		614	11630	46,466	FT	INCREASED BARRIER DELINEATION			65
42											42		614	12380	42	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)			
LS											LS		614	12420	LS		DETOUR SIGNING			
42											42		614	12484	42	EACH	WORK ZONE INCREASED PENALTIES SIGN			61
50											50		614	12500	50	EACH	REPLACEMENT SIGN			60
300											300		614	12600	300	EACH	REPLACEMENT DRUM			60
2,004											2,004		614	12801	2,004	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN			62
915											915		614	13310	915	EACH	BARRIER REFLECTOR, TYPE 1, ONE-WAY			65
1,064											1,064		614	13312	1,064	EACH	BARRIER REFLECTOR, TYPE 2, ONE-WAY			65
3,773											3,773		614	13350	3,773	EACH	OBJECT MARKER, ONE WAY			63
64											64		614	18601	64	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN			61
15.47											15.47		614	20056	15.47	MILE	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT			
16											15.27	0.73	614	22056	16	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT, WHITE			
15.59											14.94	0.65	614	22056	15.59	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT, YELLOW			
36,644											36,590	54	614	23110	36,644	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT			
10,903											10,903		614	24102	10,903	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT			
47											47		614	26400	47	FT	WORK ZONE STOP LINE, CLASS I, 740.06, TYPE I			
364											364		614	27070	364	FT	WORK ZONE CROSSWALK LINE, CLASS I, 12", 740.06, TYPE I			
4											4		614	31200	4	EACH	WORK ZONE WORD ON PAVEMENT, 72", CLASS I, 642 PAINT			
8											8		614	31650	8	EACH	WORK ZONE WORD ON PAVEMENT, 96", CLASS I, 642 PAINT			
3.64											3.64		614	98000	3.64	MILE	WORK ZONE PAVEMENT MARKING, MISC.:LANE LINE, CLASS I, 5" 642 PAINT			60
2.89											2.89		614	98000	2.89	MILE	WORK ZONE PAVEMENT MARKING, MISC.:CENTER LINE, CLASS I, 5" 642 PAINT, DOUBLE SOLID			60
4											4		614	98000	4	MILE	WORK ZONE PAVEMENT MARKING, MISC.:EDGE LINE, CLASS I, 5", 642 PAINT, WHITE			60
1.47											1.47		614	98000	1.47	MILE	WORK ZONE PAVEMENT MARKING, MISC.:EDGE LINE, CLASS I, 5", 740.06, TYPE I, YELLOW			60
21,813											21,813		614	98100	21,813	FT	WORK ZONE PAVEMENT MARKING, MISC.:CHANNELIZING LINE, CLASS I, 10" PAINT			60
3,380											3,380		614	98100	3,380	FT	WORK ZONE PAVEMENT MARKING, MISC.:DOTTED LINE, 5", 740.06, TYPE I, WHITE			60
422											422		614	98100	422	FT	WORK ZONE PAVEMENT MARKING, MISC.:DOTTED LINE, 5", 740.06, TYPE I, YELLOW			60
1,056											1,056		614	98100	1,056	FT	WORK ZONE PAVEMENT MARKING, MISC.:STOP LINE, 20", 642 PAINT			60
163											163		614	98200	163	EACH	WORK ZONE PAVEMENT MARKING, MISC.:ARROW, CLASS I, 642 PAINT			60
3											3		614	98200	3	EACH	WORK ZONE PAVEMENT MARKING, MISC.:LANE REDUCTION ARROW, CLASS I, 642 PAINT			60
8											8		614	98200	8	EACH	WORK ZONE PAVEMENT MARKING, MISC.:ROUTE SHIELD SYMBOL, CLASS I, 642 PAINT			
LS											LS	LS	615	10000	LS		ROADS FOR MAINTAINING TRAFFIC			
10,456											4,111	6,345	615	25000	10,456	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B			
737											737		616	10000	737	MGAL	WATER			60
11,200											11,200		618	40101	11,200	FT	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE), AS PER PLAN			65
1											1		622	41060	1	EACH	DAUL PORTABLE BARRIER TRANSITION/TERMINATION			
46,906											39,620	7,286	622	41100	46,906	FT	PORTABLE BARRIER, UNANCHORED			
491											1		622	41110	491	FT	PORTABLE BARRIER, ANCHORED			
120											80	411	808	18700	120	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY			60
12											12		829	00100	12	SNMT	WORK ZONE EGRESS WARNING SYSTEM			65
											LS		108	10000	LS		INCIDENTALS CPM PROGRESS SCHEDULE			
											5,500		SPECIAL	11110100	5,500	EACH	DEPARTMENTS SHARE FACILITATED PARTNERING COSTS			
											LS		614	11000	LS		MAINTAINING TRAFFIC			59
											35		619	16020	35	MNTH	FIELD OFFICE, TYPE C			
											LS		623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING			
											LS		624	10000	LS		MOBILIZATION			

GENERAL SUMMARY

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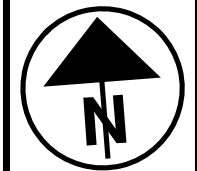
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IR 70 AND RAMP M INTERCHANGE GORE

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NOTE: ELEVATIONS SHOWN AT 25' INTERVALS

3646-E



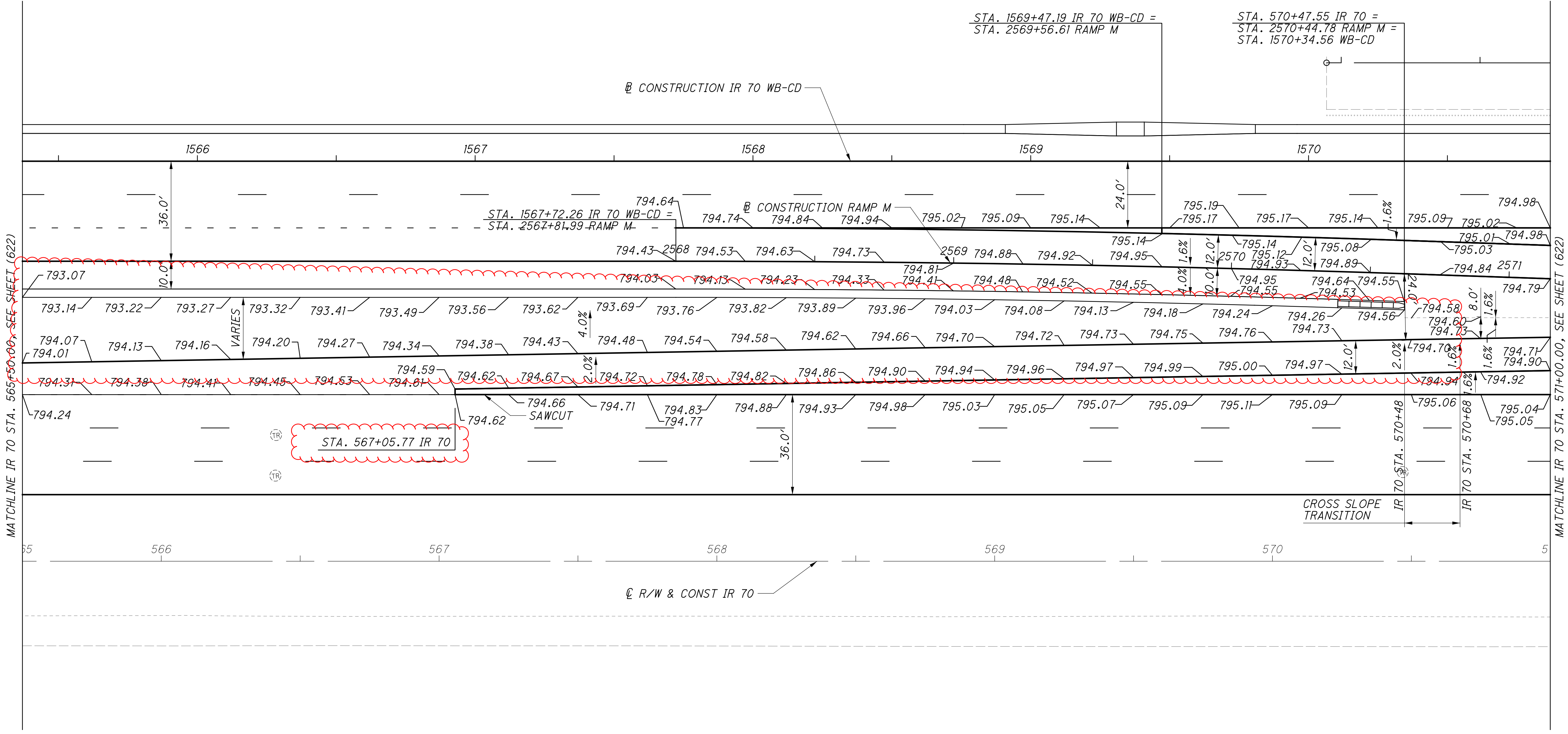
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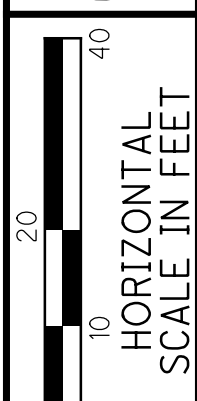
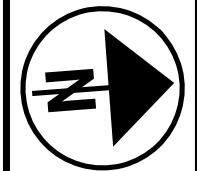
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NOTE: ELEVATIONS SHOWN AT 25' INTERVALS

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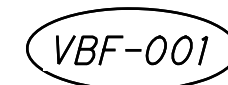
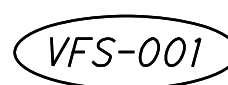





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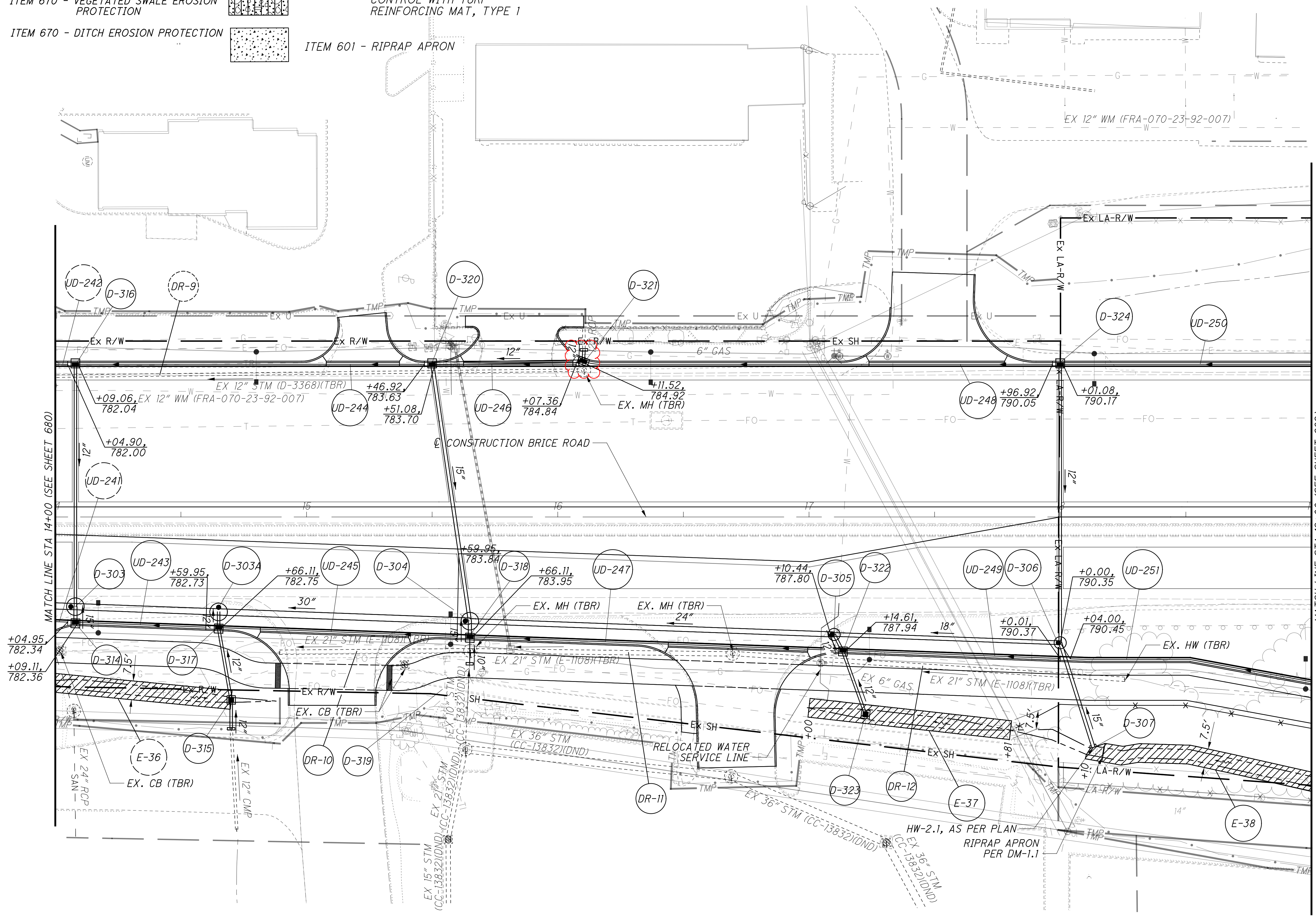
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STA 14+00 TO STA 19+00**

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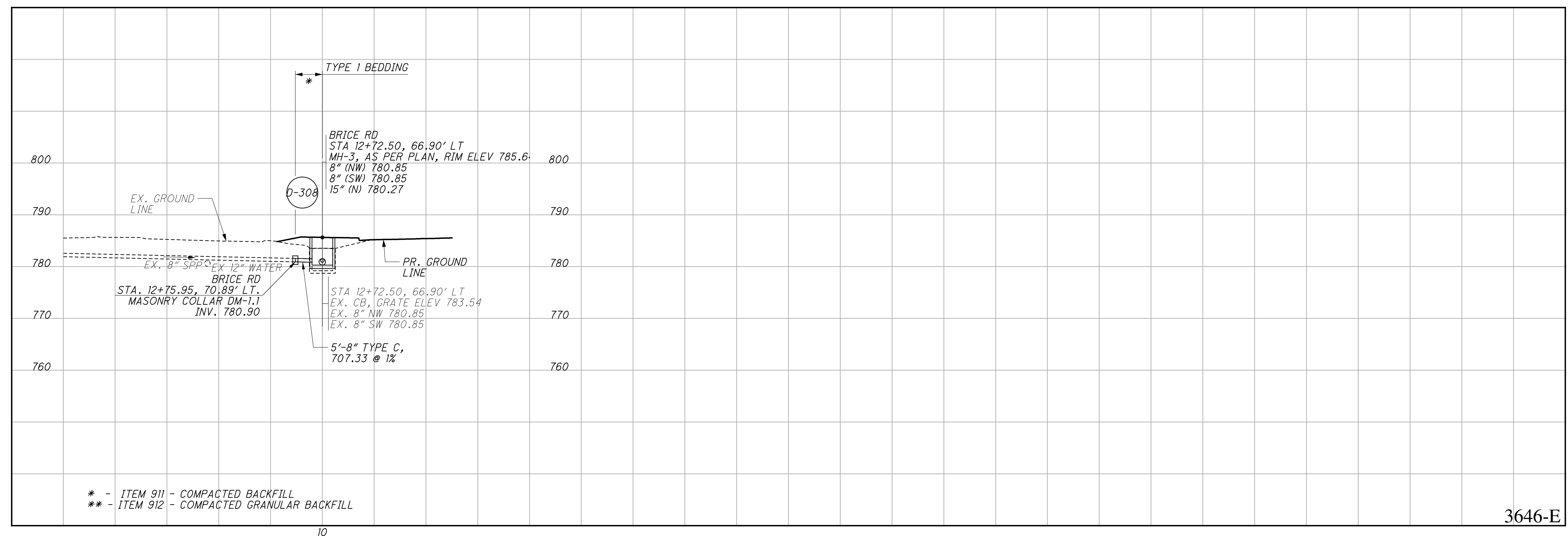
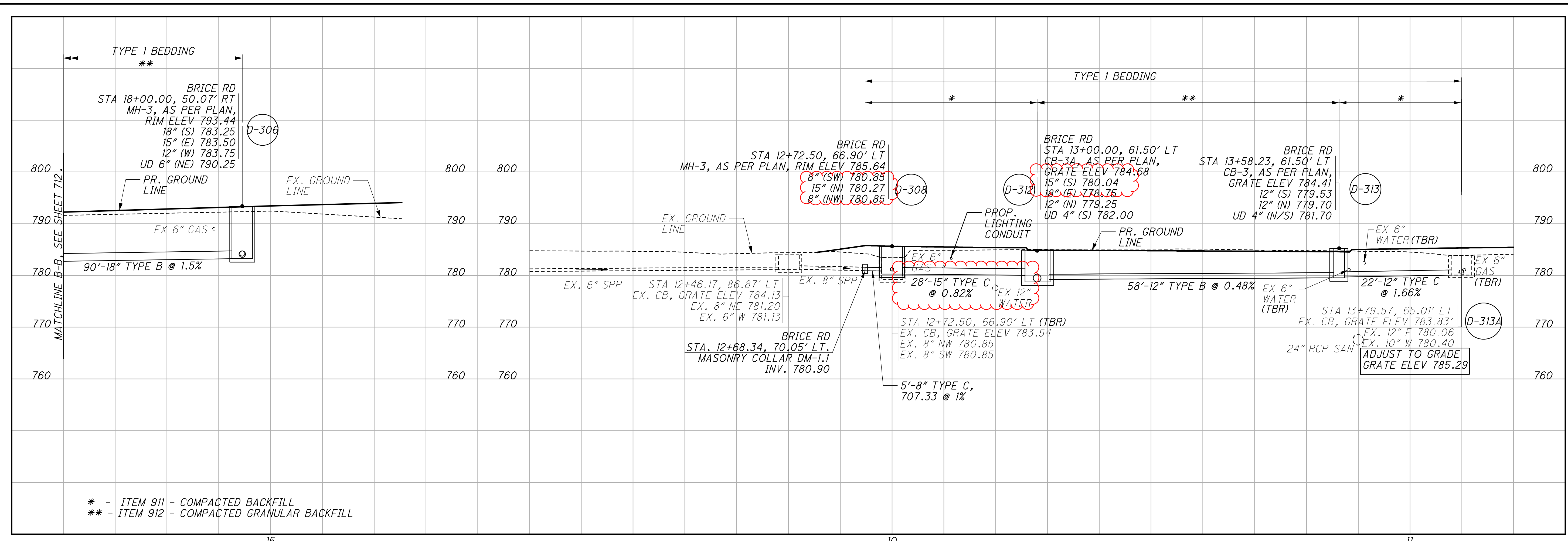
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LEGEND

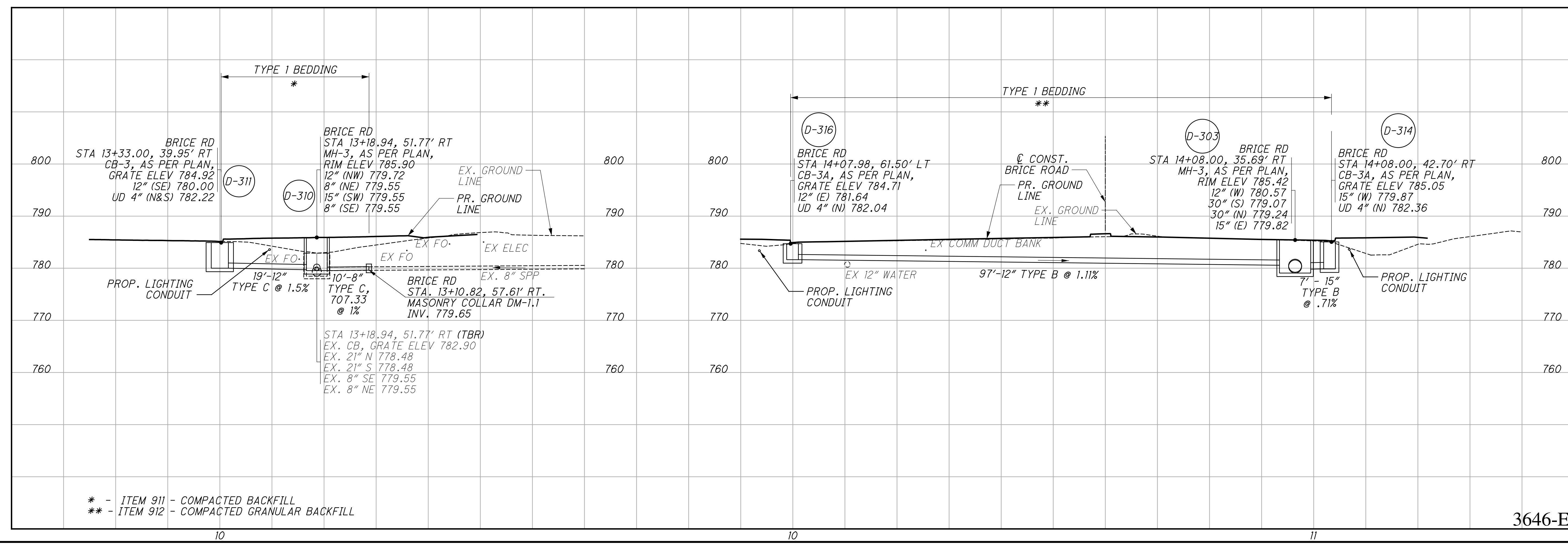
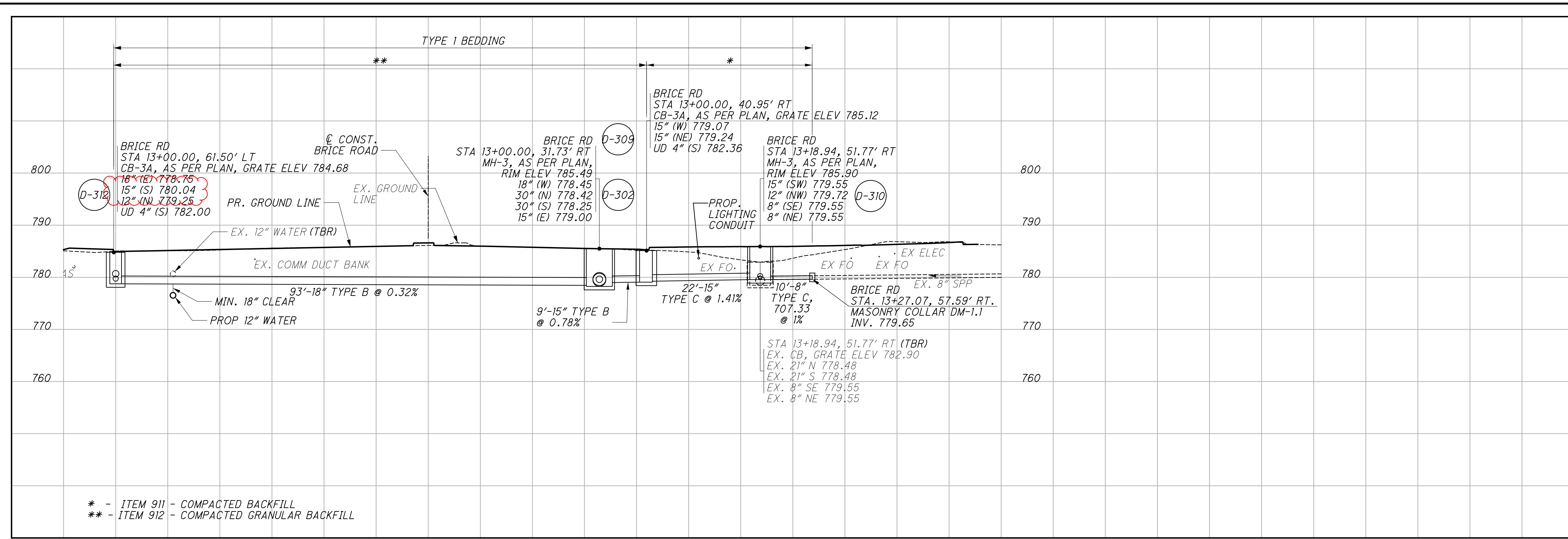
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-  VEGETATED FILTER STRIP IDENTIFIER
-  ITEM 670 - VEGETATED SWALE EROSION PROTECTION
-  ITEM 670 - DITCH EROSION PROTECTION
-  VEGETATED FILTER STRIP
-  ITEM 836 - SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1
-  ITEM 601 - RIPRAP APRON



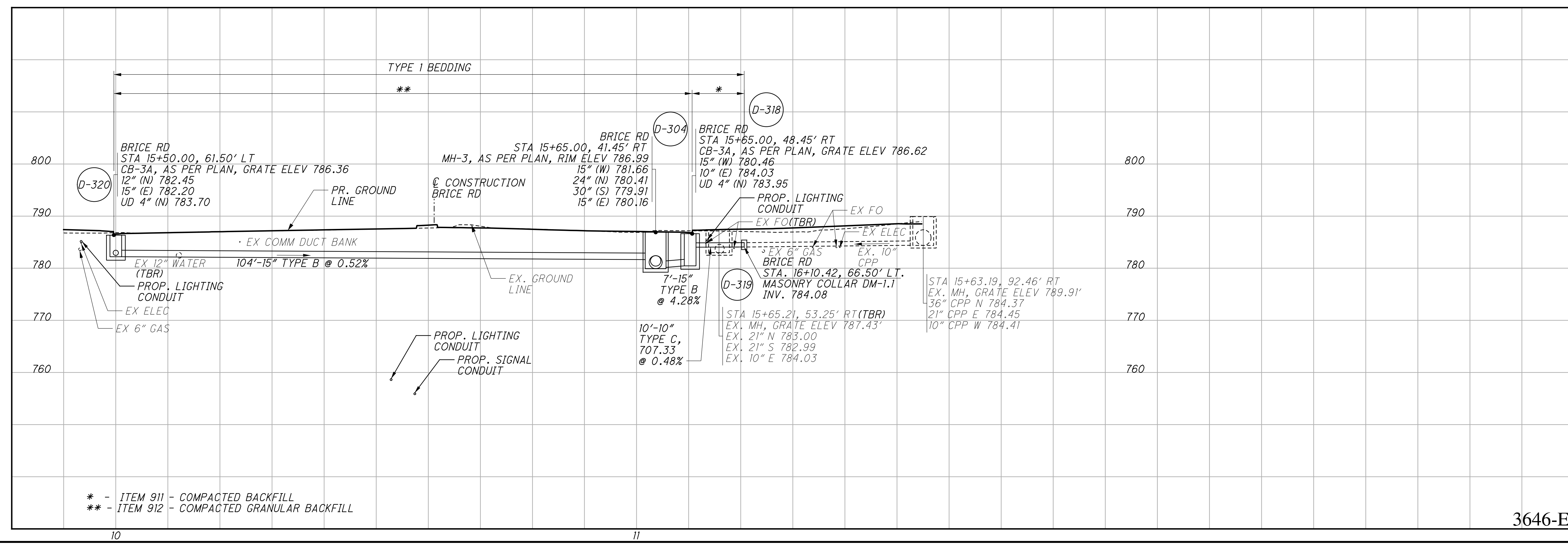
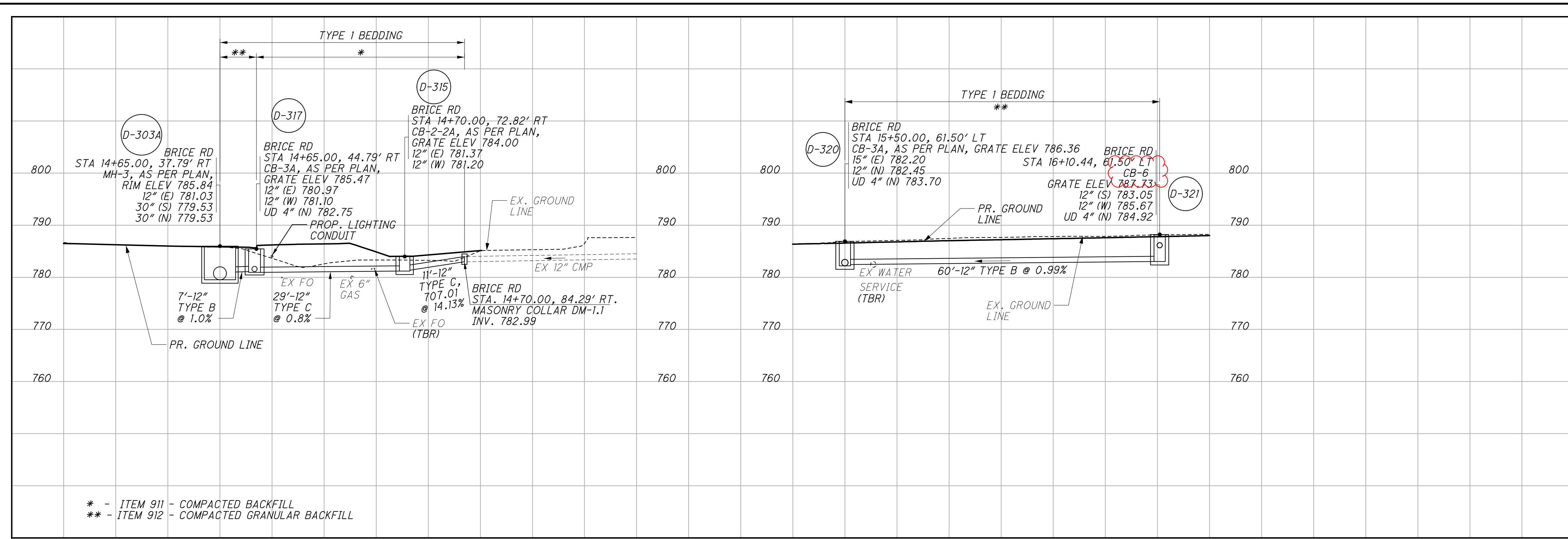
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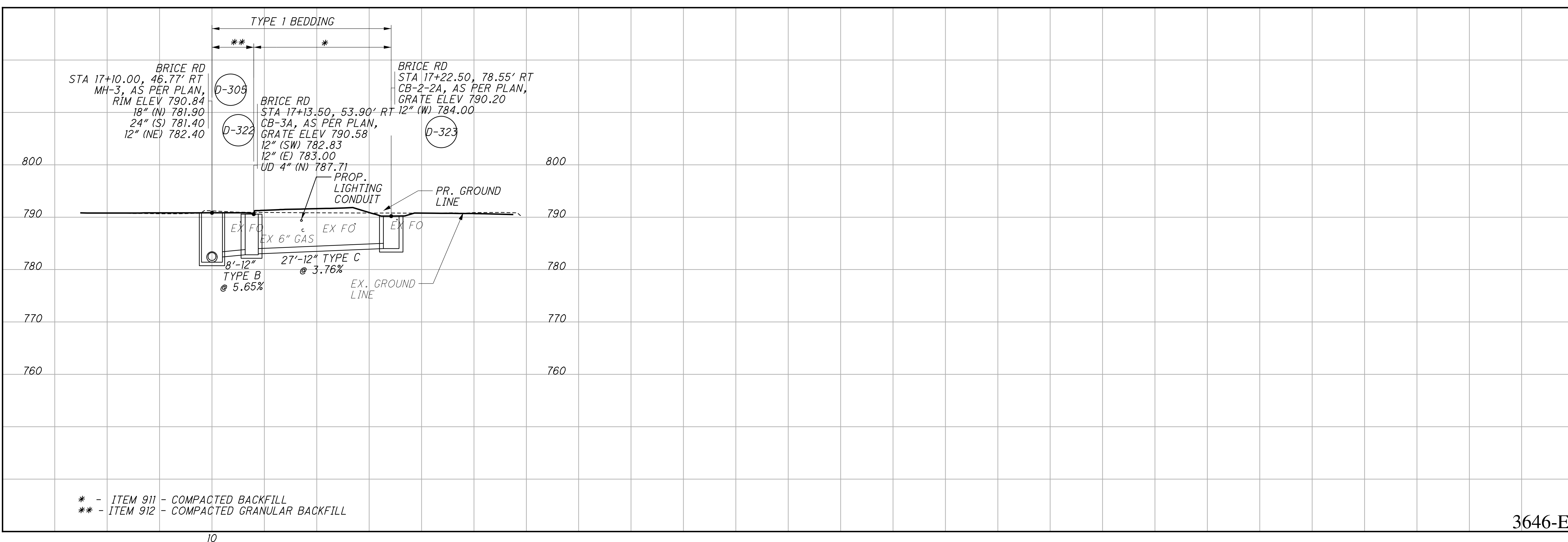
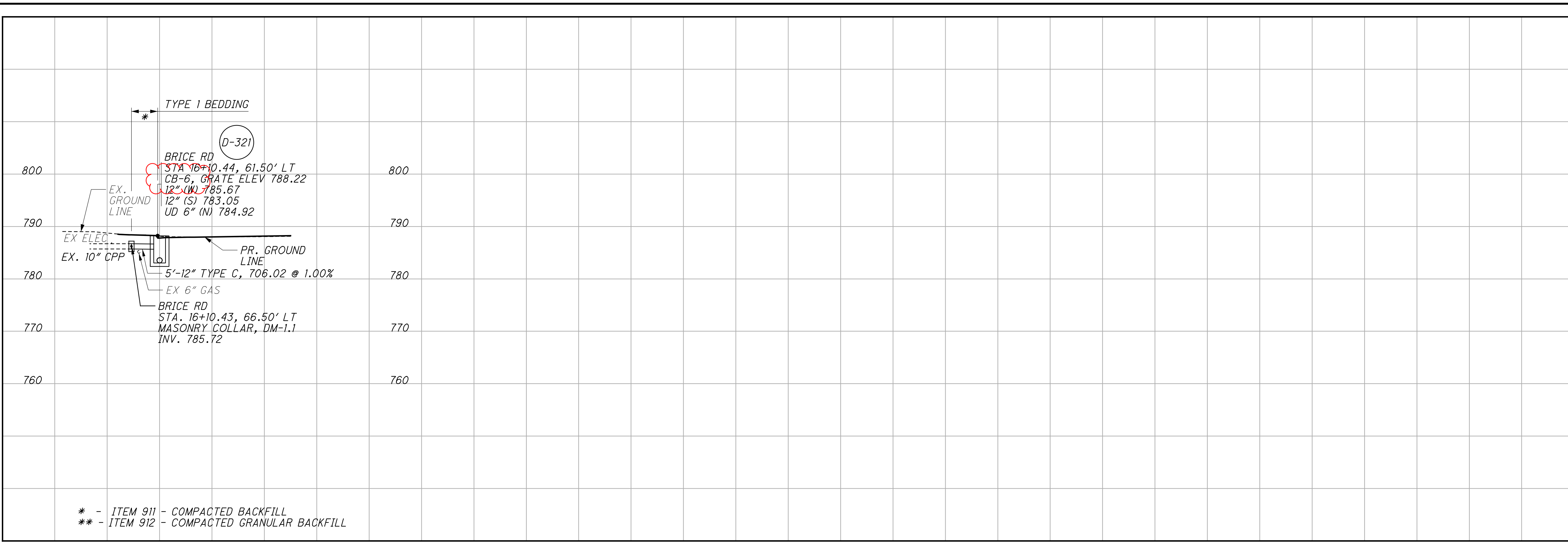
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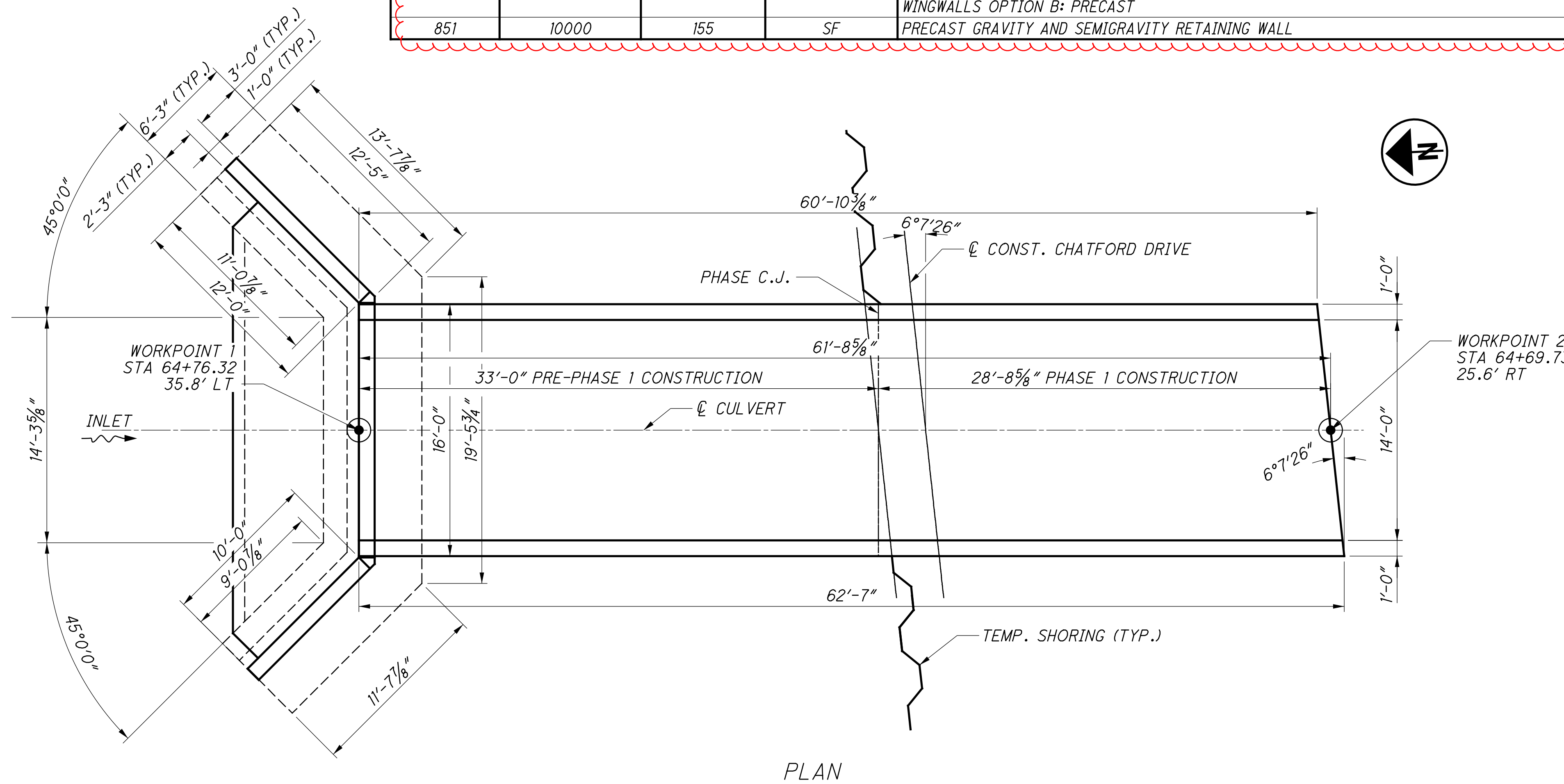
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ESTIMATED QUANTITIES

ITEM	ITEM EXTENSION	TOTAL	UNIT	DESCRIPTION	GENERAL	REF. SHEET NUMBER
201	11001		LUMP	CLEARING AND GRUBBING, AS PER PLAN		2
202	11000		LUMP	STRUCTURE REMOVED		
503	11101	LUMP	LUMP	COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN	LUMP	2,3
503	21100	247	CY	UNCLASSIFIED EXCAVATION	247	
509	10000	1,898	LB	EPOXY COATED REINFORCING STEEL, FOOTING AND HEADWALL	1,898	
511	46510	19	CY	CLASS QC1 CONCRETE, FOOTING	19	
511	46611	1	CY	CLASS QC1 CONCRETE, HEADWALL, AS PER PLAN	1	2
512	10050	33	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	33	
512	33000	220	SY	TYPE 2 WATERPROOFING	220	
516	13600	16	SF	1" PREFORMED EXPANSION JOINT FILLER	16	
518	21200	8	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	8	
601	11001	14	SY	RIPRAP USING 6" REINFORCED CONCRETE SLAB, AS PER PLAN	14	
611	96315	61.71	FT	14' X 6' CONDUIT, TYPE A, 706.05, AS PER PLAN (3' COVER)	61.71	2
613	41200	220	CY	LOW STRENGTH MORTAR BACKFILL	220	
509	10000	867	LB	WINGWALLS OPTION A: CAST-IN-PLACE EPOXY COATED REINFORCING STEEL, WINGWALLS	867	
511	46010	6	CY	CLASS QC1 CONCRETE, RETAINING/WINGWAL NOT INCLUDING FOOTING	6	
851	10000	155	SF	WINGWALLS OPTION B: PRECAST PRECAST GRAVITY AND SEMIGRAVITY RETAINING WALL	155	



NOTES:
1. ALL QUANTITIES PRESENTED ON THIS SHEET SHALL BE INCLUDED WITH 06/S>2/03

LEGEND:
● WORKPOINT, FACE OF WALL AND CULVERT

PLAN ABBREVIATIONS:

BOT.	BOTTOM	PEJF	PREFORMED EXPANSION JOINT FILLER
C.	CENTERLINE	P.G.	PROFILE GRADE
C/C	CENTER TO CENTER	PROP.	PROPOSED
C.J.	CONSTRUCTION JOINT	SPA.	SPACE, SPACES, SPACED
CLR.	CLEAR COVER	STA.	STATION
CONST.	CONSTRUCTION	STD. DWG.	STANDARD DRAWING
DIA.	DIAMETER	TYP.	TYPICAL
EL.	ELEVATION		
E.F.	EACH FACE		
EXIST.	EXISTING		
F.F.	FAR FACE		
MAX.	MAXIMUM		
MIN.	MINIMUM		
N.F.	NEAR FACE		

RESOURCE INTERNATIONAL INC.
6350 PRESIDENTIAL GATEWAY
COLUMBUS, OHIO 43231
(614) 823-4949



DATE: 10/04/23
REVIEWED: JWE
STRUCTURE FILE NUMBER: 2560137

DRAWN: JGM
CHECKED: MMS
REVISED:

ESTIMATED QUANTITIES
FRA-CHTFD-00.160
CHATFORD DR OVER DRAINAGE DITCH

FRA-70-22.85
PID No. 98232

3 / 7

1064
1356