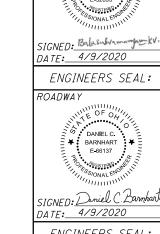
STATE ROUTES _____ COUNTY & TOWNSHIP ROADS _____-

OTHER ROADS

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INTERSTA	ATE HIGHW	/A Y				
	DOLLTES					

DESIGN DESIGNATION AND DESIGN EXCEPTIONS

SEE SHEET 2



ENGINEERS SEAL:

STRUCTURES

PLAN PREPARED BY:

UNDERGROUND

UTILITIES

OHIO811.org

Before You Dig

Mead 4700 LAKEHURST CT, STE 110 COLUMBUS. OH 43016 (614) 792-5900 PHONE &llunt

STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

FRA-71-0.00 (PIC)

(DARBY TOWNSHIP) JACKSON TOWNSHIP PLEASANT TOWNSHIP FRANKLIN COUNTY (PICKAWAY COUNTY)

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PROJECT DESCRIPTION

THIS PROJECT WILL CONSIST OF WIDENING 4.98 MILES OF I-71 FROM THE FRANKLIN/PICKAWAY COUNTY LINE NORTH TO JUST SOUTH OF THE I-71 AND SR 665 INTERCHANGE. THE PROJECT INCLUDES ADDING A THIRD LANE TO THE MEDIAN SIDE IN BOTH DIRECTIONS, REPLACING TWIN SUPER-STRUCTURES OVER THE INDIANA & OHIO RAILWAY COMPANY RAILROAD TRACKS AND US 62, AND ASSOCIATED ROADWAY, SIGNING AND DRAINAGE IMPROVEMENTS. THE PROJECT ALSO INCLUDES RECONSTRUCTION OF ALL THE RAMPS AT THE US 62 INTERCHANGE. THE PROJECT DOES NOT INCLUDE 0.31 MILE OF PREVIOUSLY CONSTRUCTED IMPROVEMENTS AT THE BIG DARBY CREEK.

PROJECT EARTH DISTURBED AREA: 139 ACRES ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 14 ACRES NOTICE OF INTENT EARTH DISTURBED AREA: 153 ACRES

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

1031-1100 1101-1107 1108-1193 1194-1273

SUPPLEMENTAL

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

					51	ANDARD	CONSTR	UCTION	DRAWING:	S					SPECIFIC	:ATIONS	
E	3P-1.1	7/28/00	DM-1.1	7/21/17	MGS-5.2	7/15/16	HL-10.11	4/17/20	MT-95.30	7/19/19	MT-100.00	1/15/16	TC-41.50	10/18/13	800-2019	4/17/20	ı
E	3P-2.1	7/17/15		1/18/13	MGS-5.3	7/15/16	HL-10.12	1/20/17	MT-95.40	1/17/20	MT-101.60	1/17/20	TC-42.10	10/18/13	807	4/17/20	l
E	3P-2.2	7/18/08	DM-4.1	7/20/18	MGS-6.1	1/19/18	HL-10.13	4/17/20	MT-95.45	1/17/20	MT-101.70	1/17/20	TC-42.20	10/18/13	808	1/18/19	ı
. E	3P-2.3	7/18/14		7/20/12	MGS-6.2	7/19/19	HL-10.31	4/17/20	MT-95.70		MT-101.75		TC-51.11	1/15/16	813	10/19/18	l
. <i>E</i>	3P-3.1	1/17/20		1/15/16	l		HL-20.11		MT-95.71	1/17/20	MT-101.80	1/17/20	TC-52.10	10/18/13	821	4/20/12	l
E	3P-5.1	1/18/19	DM-4.4	1/15/16	RM-1.1	7/18/14	HL-20.21		MT-95.72		MT-101.90		TC-52.20	7/20/18	832	10/19/18	l
E	3P-6.1	7/19/13			RM-4.3		HL-30.11	4/17/20	MT-95.82	7/19/13	MT-102.10	1/17/20	TC-61.10	1/17/20	833	7/19/19	ı
Z	3P-9.1	1/18/19	F-2.1	7/20/18			HL-30.21		MT-98.10	1/17/20	MT-102.20	4/19/19	TC-64.10	1/17/20	836	1/19/18	ı
L			F-3.1		RM-4.6	7/19/13	HL-30.22	4/17/20	MT-98.11	1/17/20	MT-102.30	10/16/15	TC-65.10	1/17/14	837	7/19/19	ı
(CB-2.1	7/20/18		7/19/13	I		HL-30.31	4/17/20	MT-98.20	4/19/19	MT-103.10	1/19/18	TC-65.11	7/21/17	846	4/17/15	ı
(CB-2.2	7/20/18	F-3.4	7/19/13	AS-1-15	7/17/15	HL-30.32	4/17/20	MT-98.21	1/17/20	MT-104.10	10/16/15	TC-71.10	1/19/18	848	1/20/17	ı
(CB-2.3	1/15/16			AS-2-15	1/18/19	HL-40.20	1/17/20	MT-98.22	1/17/20	MT-105.10	1/17/20	TC-72.20	7/20/18	878	1/17/20	ı
(CB-3.2	1/15/16	MGS-1.1	1/19/18	GSD-1-19	1/18/19	HL-50.21	4/17/20	MT-98.28	1/17/20			TC-73.20	1/17/20	899	1/17/20	ı
(CB-3.3	1/15/16	MGS-2.1	1/19/18	PCB-91	1/18/13	HL-60.11	7/21/17	MT-98.29	1/17/20	TC-12.30	1/19/18			905	4/17/20	ı
(CB-3.4	1/15/16	MGS-3.1	1/19/18	SBR-1-13	7/20/18	HL-60.12	4/17/20	MT-98.30	7/19/19	TC-21.20	7/20/18	SPEC	CIAL	908	10/20/17	ı
1	-2.2	7/19/19	MGS-3.2	1/18/13	SICD-1-96	7/18/14	HL-60.21	7/20/18	MT-99.20	4/19/19	TC-41.10	7/19/13	PROVI:	SIONS	913	4/21/17	ı
L			MGS-4.2	7/19/13	SICD-2-14	7/18/14	HL-60.31	1/17/20	мт-99.30	1/17/20	TC-41.20	10/18/13	IORY PPM A	PRIL 2019	921	4/20/12	l
. 1	MH-1.2	1/15/16	MGS-4.3	1/18/13	VPF-1-90	7/20/18			MT-99.60	7/15/16	TC-41.30	10/18/13	G&W Track Mor	nitoring 01/18	938	1/19/18	

APPROVED __ DATE____ __ DISTRICT DEPUTY DIRECTOR APPROVED_ DATE_ DIRECTOR, DEPARTMENT OF

TRANSPORTATION

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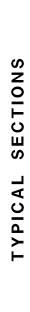
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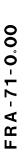
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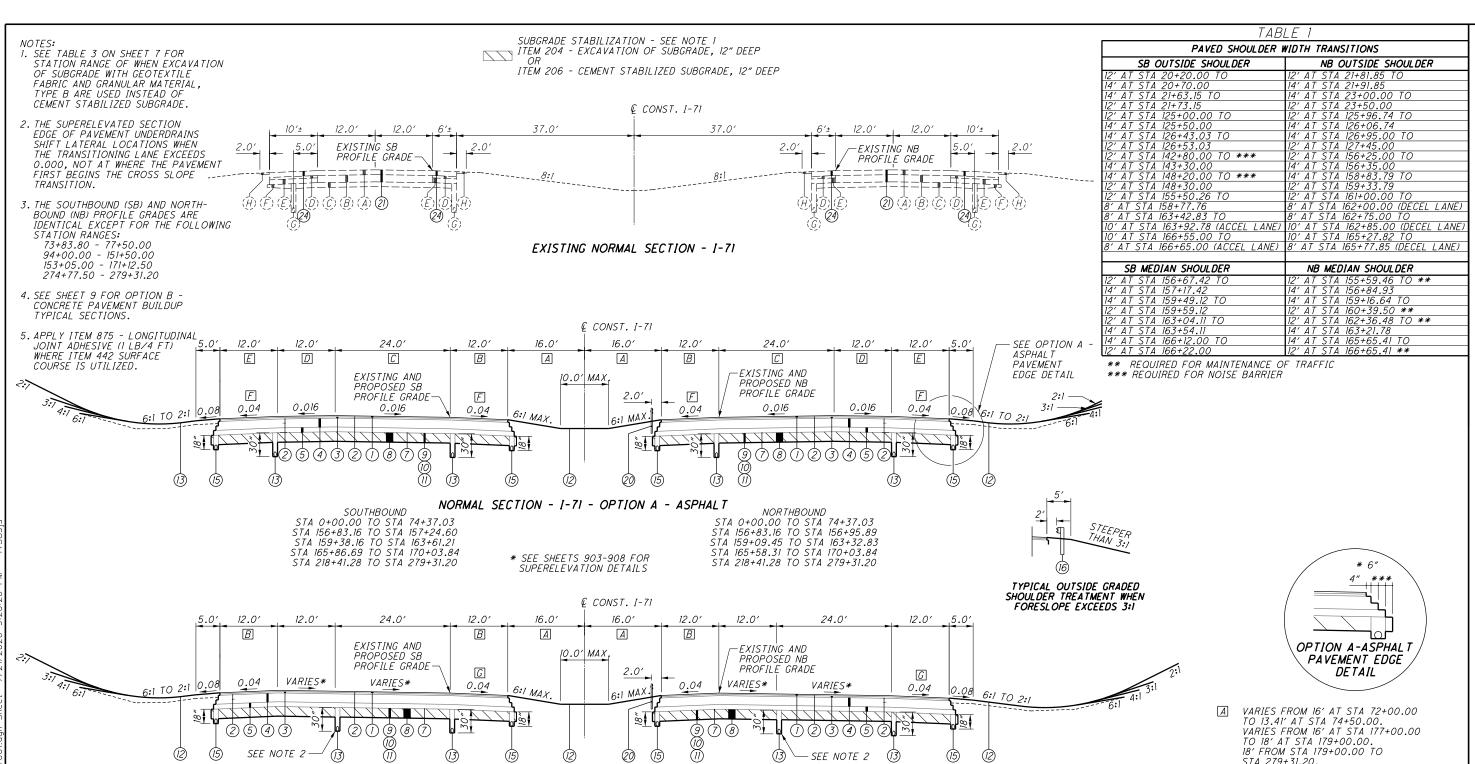
ENGINEERS SEAL:

MOT AND LIGHTING MCPHERON

DATE: 4/9/2020







SOUTHBOUND SUPERELEVATED SECTION - I-71 - OPTION A - ASPHALT
STA 74+37.03 TO STA 74+50.00 (*0.016 - 0.015)
STA 74+37.03 TO STA 74+50.00 (*0.016 - 0.015)

NORTHBOUND STA 74+37.03 TO STA 74+50.00 (*0.016 - 0.015) STA 94+00.00 TO STA 156+83.16 (*0.020 - 0.016)

LEGEND

- (A) EXISTING ASPHALT OVERLAY (6" AVERAGE DEPTH)
- B) EXISTING REINFORCED PCC (9" AVERAGE DEPTH) EXISTING AGGREGATE BASE (6" AVERAGE DEPTH)
- D) EXISTING BITUMINOUS AGGREGATE (3" AVERAGE DEPTH)
- E) EXISTING STABILIZED AGGREGATE SHOULDER (VARIABLE DEPTH)
-) EXISTING AGGREGATE BASE (VARIABLE DEPTH)
- Ĝ) EXISTING 6" PIPE UNDERDRAIN

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- H) EXISTING COMPACTED AGGREGATE (2" AVERAGE DEPTH)
-) EXISTING CONCRETE BARRIER, TYPE A
- (J) EXISTING ASPHALT SURFACE COURSE (VARIABLE DEPTH)
- R) EXISTING ASPHALT INTERMEDIATE COURSE (13/4 " AVERAGE DEPTH)
- L) EXISTING ASPHALT BASE (11" AVERAGE DEPTH)
- M) EXISTING NON-REINFORCED CONCRETE (131/2" AVERAGE DEPTH)

- ① ITEM 442 1½" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A, (447), AS PER PLAN
- 2) ITEM 407 NON-TRACKING TACK COAT
- (3) ITEM 442 1¾ " ASPHALT CONCRETE INTERMEDIATE COURSE,
- 5) TIEM 304-16" ACCHECATE BASK
- 6) ITEM 526 APPROACH SLAB (T=17")

STA 94+00.00 TO STA 156+83.16 (*0.020 - 0.016)

- (9) ITEM 204 EXCAVATION OF SUBGRADE, 12" DEEP
- (12) ITEM 659 SEEDING AND MULCHING
- (13) ITEM 605 6" SHALLOW PIPE UNDERDRAINS

- TSMM TXPEA, W46V (4) ITEM 302 - ASPHALT CONCRETE BASE, AS PER PLAN, 11" (2 LIFTS)
- (7) ITEM 204 SUBGRADE COMPACTION AND PROOF ROLLING
- (8) ITEM 206 CEMENT STABILIZED SUBGRADE, 12" DEEP
- (10) ITEM 204 GEOTEXTILE FABRIC
- (ÎÎ) ITEM 204 12" GRANULAR MATERIAL, TYPE B
- (14) ITEM 605 6" UNCLASSIFIED PIPE UNDERDRAINS

- (15) ITEM 605 6" BASE PIPE UNDERDRAINS
- (16) ITEM 606 GUARDRAIL, TYPE MGS
- (17) ITEM 622 SINGLE SLOPE CONCRETE BRIDGE RAILING
- (18) ITEM 452 121/2" NON-REINFORCED CONCRETE PAVEMENT CLASS OC 1P WITH OC/OA
- (19) ITEM 622 CONCRETE BARRIER, SINGLE SLOPE, TYPE CI
- (ONLY ON NORTHBOUND SIDE)
- (2) ITEM 202 PAVEMENT REMOVED, AS PER PLAN
 (22) ITEM 452 13½" NON-REINFORCED CONCRETE PAVEMENT CLASS OC IP WITH OC/OA
 (23) ITEM 526 APPROACH SLAB (T=15")
- (24) ITEM 202 PAVEMENT REMOVED
- 25) LONGITUDINAL JOINT
- (26) ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE
 (27) ITEM 254 PAVEMENT PLANING, PORTLAND CEMENT CONCRETE
- 28) ITEM 848 OVERLAY, MISC.: CONCRETE PAVEMENT CLASS OC IP WITH OC/QA

- PLEASE SEE TABLE 1 ABOVE.
- VARIES FROM 25.93' (NB) AND 25.55' (SB) AT STA 0+00.00 TO 24' AT STA 1+00.00 (SB) AND STA 1+50.00 (NB).
 - VARIES FROM 11.84' (NB) AND 11.64' (SB) AT STA 0+00.00 TO 12' AT STA 1+00+00 (SB) AND STA 1+50.00 (NB).
- VARIES FROM 10.23' (NB) AND 10.81' (SB) AT STA 0+00.00 TO 12' AT STA 1+00.00 (SB) AND STA 1+50.00 (NB). ALSO, PLEASE SEE TABLE 1 ABOVE.
- TRANSITION BETWEEN 0.04 ON NORMAL SECTION TO 0.016 AT APPROACH SLABS OVER 90'. SEE TABLE 2, NEXT SHEET.
- TRANSITION BETWEEN 0.04 ON SUPER-ELEVATED SECTION TO 0.020 AT APPROACH SLABS. SEE TABLE 2, NEXT SHEET.



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EXISTING UNDERDRAINS

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PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDER-DRAINS ENCOUNTERED DURING CONSTRUCTION.

PROVIDE AN OUTLET PER STANDARD CONSTRUCTION DRAWING DM-1.1 FOR ALL UNDER-DRAINS THAT OUTLET TO A SLOPE.

UNDER-DRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDER-DRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDER-DRAINS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

601, TIED CONCRETE BLOCK MAT, TYPE 1 3.6 SQ. YD. 611 6" CONDUIT, TYPE F 50 FT. 611. PRECAST REINFORCED CONCRETE OUTLET 2 EACH 605 6" UNCLASSIFIED PIPE UNDER-DRAINS 50 FT.

ASPHALT SURFACE COURSE, AS PER PLAN LONGITUDINAL JOINTS (FLEXIBLE PAVEMENT)

LOCATE LONGITUDINAL JOINTS IN THE SURFACE COURSE SUBJECT TO THE FOLLOWING REQUIREMENTS:

PLACE THE MAINLINE PAVEMENT SURFACE COURSE WITH A SINGLE COLD LONGITUDINAL JOINT LOCATED BETWEEN LANES 2 AND 3. A COLD LONGITUDINAL JOINT IS PERMITTED BETWEEN THE SHOULDER AND MAINLINE PAVEMENT. NO OTHER COLD JOINTS ARE PERMITTED IN THE SURFACE COURSE OF MAINLINE PAVEMENT.

ITEM 442. ANTI-SEGREGATION

PROVIDE ANTI-SEGREGATION EQUIPMENT FOR ALL COURSES OF UNIFORM THICKNESS IN ACCORDANCE WITH CMS 401.12.

ITEM 622. CONCRETE BARRIER. END ANCHORAGE. REINFORCED, TYPE CI, AS PER PLAN

REINFORCED END ANCHORAGE LENGTH WILL BE EXTENDED FROM INLET EXPANSION JOINT TO INLET EXPANSION JOINT FOR INLETS WITH LESS THAN 30 FEET CLEAR. ALL OTHER DETAILS OF THE REINFORCED END ANCHORAGES WILL BE PFR RPM-4.3

PROJECT STANDARD OPERATING PROCEDURE FOR SUBGRADE TRFATMENT

CHEMICAL STABILIZATION OF SUBGRADE SHALL NOT BE PERFORMED WITHIN HIGH SULFATE SOILS WITHOUT THE APPROVAL BY THE ENGINEER AND CONSULTING THE DISTRICT GEOTECHNICAL ENGINEER.

SULFATE READINGS ENCOUNTERED DURING THE SUPPLEMENT 1120 MIXTURE DESIGN TESTING THAT ARE ABOVE 5000PPM ARE CONSIDERED "HIGH".

AREAS NOT BEING CHEMICALLY STABILIZED SHALL BE TREATED ACCORDING TO ITEM 204 EXCAVATION OF SUBGRADE, 12" DEEP. ITEM 204 GEOTEXTILE FABRIC, ITEM 204 12" GRANULAR MATERIAL, TYPE B AND ITEM 204 SUBGRADE COMPACTION AND PROOF ROLLING.

ITEM 206 - MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS, AS PER PLAN

ALL SAMPLING AND TESTING FOR ITEM 206 MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS SHALL BE PERFORMED ACCORDING TO CMS ITEM 206 AND SUPPLEMENT 1120 EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES.

ALL SAMPLING AND TESTING OF ITEM 206 MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS FOR THE PROJECT SHALL BE COMPLETED PRIOR TO TRAFFIC SHIFTING INTO PHASE 1.

SAMPLING AND TESTING SHALL BE IN ACCORDANCE WITH ODOT SUPPLEMENT 1120 AND AS SPECIFIED HEREIN. A MINIMUM OF ONE SOIL SAMPLE FOR EVERY 5000 SQUARE YARDS OF PROPOSED CHEMICALLY STABILIZED SUBGRADE AREA, BUT NOT LESS THAN A TOTAL OF FOUR (4) SOIL SAMPLES FOR EACH CONSTRUCTION PHASE OF THE PROJECT SHALL BE PERFORMED.

IF ADDITIONAL HIGH SULFATE CONTENTS ARE ENCOUNTERED DURING THE ITEM 206 MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS, THEN CONTACT THE DISTRICT GEOTECHNICAL ENGINEER IMMEDIATELY.

ITEM 619, FIELD OFFICE, TYPE C, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS PROVIDED IN CMS FOR THE TYPE OF FIELD OFFICE SPECIFIED, PROVIDE THE FOLLOWING ITEMS.

- 1. FOR EACH TELEPHONE AND/OR COMPUTER STATION SPECIFIED, PROVIDE ALL ETHERNET WIRING NECESSARY TO CONNECT THE PHONE AND/OR COMPUTER AND MULTI-FUNCTION COPIER TO THE INTERNET COMPANY SYSTEM.
- 2. PROVIDE A BROADBAND INTERNET CONNECTION CAPABLE OF MINIMUM DOWNLOAD SPEEDS AS FOLLOWS: 30 MBPS DOWNLOAD 5 MBPS UPLOAD - NETWORK LATENCY LESS THAN 50 MILLISECONDS. IF SPEEDS ARE NOT AVAILABLE THROUGH AN INDIVIDUAL OR SINGULAR CIRCUIT, PROVIDE THE HIGHEST SPEED AVAILABLE IN THE AREA AND INSTALL MULTIPLE CIRCUITS TO ACHIEVE THE SPECIFIED SPEEDS. WHEN MULTIPLE BROADBAND SERVICES ARE AVAILABLE. THE FOLLOWING IS THE DESCENDING ORDER OF PRECEDENCE: CABLE, DSL, CELLULAR, AND WIRELESS RADIO (SATELLITE COMMUNICATION IS NOT COMPATIBLE WITH ODOT VPN CONNECTION AND WILL NOT BE ACCEPTED). SUPPLY MODEMS CAPABLE OF BEING CONFIGURED IN BRIDGE MODE. IF A CELLULAR NETWORK IS USED, PROVIDE THE CELLULAR EQUIPMENT, INCLUDING SOFTWARE AND ROUTER EQUIPMENT TO CONNECT TO THE ODOT PROVIDED CISCO ASA 5505 FIREWALL. SUPPLY ODOT WITH ALL DOCUMENTATION FOR THE BROADBAND CIRCUIT INCLUDING ALL USERNAME/USER IDS, PASSWORDS AND ACCOUNT INFORMATION. VERIFY THAT THE BROADBAND INTERNET CONNECTION IS ACTIVE AND WORKING AS SPECIFIED. ODOT IT PERSONNEL WILL CONFIRM THAT BANDWIDTH AND NETWORK LATENCY ARE COMPLIANT WITH THE REQUIRED FIELD OFFICE SPECIFICATIONS. ALL FIELD OFFICE INTERNET CONNECTIONS ARE FOR ODOT USE ONLY.

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN, TYPE 1:

ALL REPAIR AREAS ARE TO BE DETERMINED BY THE PROJECT ENGINEER BEFORE THE BEGINNING OF THE WORK. THE REPAIR AREAS SHALL BE OF VARYING LENGTH AND HAVE AN AVERAGE WIDTH OF NOT LESS THAN 2 FEET. THE AVERAGE DEPTH OF REPAIRS SHALL BE 2.0 INCHES AS DETAILED ON THIS SHEET.

REPAIR AREAS SHALL BE REFILLED WITH 2.0 INCHES OF ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448). GREAT CARE SHALL BE TAKEN TO MAINTAIN THE EXISTING PAVEMENT CROSS SLOPE (CROWN) AS WELL AS ALL LONGITUDINAL SLOPES. NO MORE PARTIAL DEPTH PAVEMENT REPAIR SHALL BE STARTED AND PERFORMED THAN CAN BE COMPLETED IN THE SAME WORKING DAY.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

251, PARTIAL DERTH PAVEMENT RERAIR (442), AS PER PLAN, TYPF 1 225 SY

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN. TYPE 2:

ALL REPAIR AREAS ARE TO BE DETERMINED BY THE PROJECT ENGINEER BEFORE THE BEGINNING OF THE WORK. THE REPAIR AREAS SHALL BE OF VARYING LENGTH AND HAVE AN AVERAGE WIDTH OF NOT LESS THAN 4 FEET. THE AVERAGE DEPTH OF REPAIRS SHALL BE 3.0 INCHES AS DETAILED ON THIS SHEET.

REPAIR AREAS SHALL BE REFILLED WITH 3.0 INCHES OF ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448) (2 LIFTS). GREAT CARE SHALL BE TAKEN TO MAINTAIN THE EXISTING PAVEMENT CROSS SLOPE (CROWN) AS WELL AS ALL LONGITUDINAL SLOPES. NO MORE PARTIAL DEPTH PAVEMENT REPAIR SHALL BE STARTED AND PERFORMED THAN CAN BE COMPLETED IN THE SAME WORKING DAY.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

251, PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN, TYPE 2 900 SY

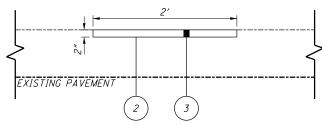
ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN, TYPE 3:

ALL REPAIR AREAS ARE TO BE DETERMINED BY THE PROJECT ENGINEER BEFORE THE BEGINNING OF THE WORK. THE REPAIR AREAS SHALL BE OF VARYING LENGTH AND HAVE AN AVERAGE WIDTH OF NOT LESS THAN 6 FEET. THE AVERAGE DEPTH OF REPAIRS SHALL BE 6.0 INCHES AS DETAILED ON THIS SHEET.

REPAIR AREAS SHALL BE REFILLED WITH 1.5 INCHES OF ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448) AND 4.5 INCHES OF ITEM 301 - ASPHALT CONCRETE BASE. GREAT CARE SHALL BE TAKEN TO MAINTAIN THE EXISTING PAVEMENT CROSS SLOPE (CROWN) AS WELL AS ALL LONGITUDINAL SLOPES. NO MORE PARTIAL DEPTH PAVEMENT REPAIR SHALL BE STARTED AND PERFORMED THAN CAN BE COMPLETED IN THE SAME WORKING DAY.

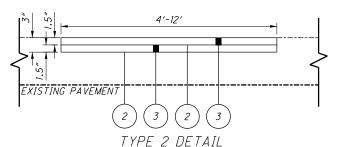
THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

251, PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN, TYPE 3 4500 SY

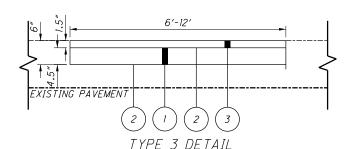


TYPE 1 DETAIL

PARTIAL DEPTH PAVEMENT REPAIR (442). AS PER PLAN TYPE 1 FOR MORE INFORMATION REGARDING ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN TYPE 1, SEE NOTE TO THE LEFT.



PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN TYPE 2 FOR MORE INFORMATION REGARDING ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN TYPE 2, SEE NOTE TO THE LEFT.



PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN TYPE 3 FOR MORE INFORMATION REGARDING ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN TYPE 3, SEE NOTE TO THE LEFT.

LEGEND:

- ITEM 301 ASPHALT CONCRETE BASE, PG64-22
- ITEM 407 NON-TRACKING TACK COAT (RATE PER CMS TABLE 407.06-1)
- ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM. TYPE A (448)

302 ASPHALT CONCRETE BASE, AS PER PLAN

MIX DESIGN - FOLLOW THE REQUIREMENTS OF 302.02 EXCEPT AS MODIFIED BELOW:

- USE A MAXIMUM F/A RATIO OF 1.4
- MINIMUM TSR IS 0.70 AS DETERMINED USING SUPPLEMENT 1051. ADD ANTISTRIP ADDITIVE AS SPECIFIED IN 441.04 IF REQUIRED BASED ON TSR.

NOTIFICATION:

NOTIFY ERIC BIEHL AT 614-275-1380 AND JULIE MILLER AT 614-466-3165 ONE WEEK PRIOR TO PLANNED BEGINNING PRODUCTION AND PLACEMENT.

OUALITY CONTROL AND ACCEPTANCE: FOLLOW THE REQUIREMENTS OF 403 USING 446 ACCEPTANCE EXCEPT AS MODIFIED BELOW:

- REPLACE MSG COMPARISON IN TABLE 403.06-1 WITH 0.015.

THE REQUIREMENTS OF 441.09 AND 441.10 APPLY, EXCEPT AS MODIFIED BELOW:

- MAINTAIN THE F/A RATIO LESS THAN 1.4.
- IF THE F/A RATIO IS GREATER THAN 1.2, RECALCULATE THE F/A RATIO USING THE EFFECTIVE ASPHALT BINDER CONTENT AND ENSURE THE RECALCULATED F/A RATIO IS LESS THAN 1.4.
- COMPACT AIR VOIDS SPECIMENS USING A SIX-INCH MARSHALL HAMMER WITH 70 BLOWS ON EACH SIDE ACCORDING TO 302.02. OUT-OF-SPECIFICATION LIMITS FOR AIR VOIDS IS 2.5 TO 5.5 PERCENT (DESIGN AIR VOIDS OF 4.0 PERCENT).
- FOR INFORMATION PURPOSES ONLY: COMPACT THREE SPECIMENS USING THE SUPERPAVE GYRATORY AT 50 GYRATIONS AND THREE AT 65 GYRATIONS FOR THE FIRST FIVE PRODUCTION DAYS AND FOR PRODUCTION DAYS 10, 20, 30, AND SO ON THAT ARE SAMPLED WITH A OC OR VA SAMPLE. IF THE PRODUCTION DAY IS SMALL QUANTITY, USE THE FOLLOWING PRODUCTION DAY. USE THE SAME SAMPLE FOR BOTH GYRATORY LEVELS AS WELL AS THE OC AIR VOID SAMPLES. PROPERLY LABEL EACH WITH GYRATORY LEVEL AND LOT SPLIT SAMPLE ID AND SET ASIDE FOR DISTRICT TESTING TO TAKE POSSESSION. DO NOT DISPOSE OF SPECIMENS.

DENSITY ACCEPTANCE:

FOLLOW THE REQUIREMENTS OF 446 ASPHALT CONCRETE CORE DENSITY ACCEPTANCE, INCLUDING JOINT CORES, EXCEPT AS MODIFIED BELOW:

- OBTAIN 6-INCH DIAMETER CORES ON EACH LIFT PLACED.
- OBTAIN JOINT CORES AT COLD LONGITUDINAL JOINTS SUCH THAT THE CORE 5/32 CLOSEST EDGE IS 6 INCHES (152 MM) FROM THE EDGE OF THE MAT.
- PAY FACTORS FOR EACH LIFT OF 302 AS PER PLAN WILL BE AS SPECIFIED IN THE FOLLOWING TABLE.

302 ASPHALT CONCRETE BASE, AS PER PLAN (CONTINUED)

MEAN OF LOT CORE DENSITY [1]	PAY FACTOR
	302, AS PER PLAN
>98.0%	[2]
>97.0% TO 98.0%	[3]
92.0% TO 97.0%	1.00
91.0% TO 91.9%	0.90
90.0% TO 90.9%	0.80
89.0% TO 89.9%	0.70
<89.0%	[4]

- [1] MEAN OF CORES AS PERCENT OF AVERAGE MSG FOR THE PRODUCTION DAY.
- [2] THE DISTRICT WILL DETERMINE WHETHER THE MATERIAL MAY REMAIN IN PLACE. THE PAY FACTOR FOR MATERIAL ALLOWED TO REMAIN IN PLACE IS 0.50.
- [3] THE DISTRICT WILL DETERMINE WHETHER THE MATERIAL MAY REMAIN IN PLACE. THE PAY FACTOR FOR MATERIAL ALLOWED TO REMAIN IN PLACE IS 0.70.
- [4] THE DISTRICT WILL DETERMINE WHETHER THE MATERIAL MAY REMAIN IN PLACE. THE PAY FACTOR FOR MATERIAL ALLOWED TO REMAIN IN PLACE IS 0.50.

IF MATERIAL IS REMOVED AND REPLACED, REMOVE AND REPLACE THE FULL LIFT AND ALL COURSES PAVED ON THE LIFT. DCB CHECKED SJS

GENERAL NOTES

RA-71-0.00

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ITEM 614 - MAINTAINING TRAFFIC, AS PER PLAN CONSTRUCTION SEQUENCE

RECONSTRUCTION AND WIDENING OF I-71 SHALL BE COMPLETED OVER 3 PRIMARY PHASES AS FOLLOWS:

PRE-PHASE 1 WORK

PRIOR TO THE START OF PHASE 1, THE NORTHBOUND OUTSIDE SHOULDER AND PARTS OF THE SOUTHBOUND INSIDE AND OUTSIDE SHOULDERS MUST BE RECONSTRUCTED IN ORDER TO CARRY SHIFTED PRE-PHASE 1 AND PHASE 1 TRAFFIC. ADDITIONALLY, A 1 FOOT WIDE SECTION OF EXISTING PAVEMENT (ADJACENT TO THE SHOULDER RECONSTRUCTION) SHALL BE MILLED AND RESURFACED. SHOULDER RECONSTRUCTION AND ADJACENT RESURFACING WORK SHALL BE LIMITED TO THAT WHICH CAN BE COMPLETED IN TWO NIGHTS AS DETAILED IN THE PRE-PHASE 1 TYPICAL SECTIONS.

THE MAINLINE CROSSOVER AT THE SOUTH END OF THE PROJECT AND THE CULVERT CROSSOVERS LOCATED NEAR YOUNG RD. SHALL BE CONSTRUCTED IN CONJUNCTION WITH THE SHOULDER REPLACEMENT. ADDITIONALLY, THE EXISTING PAVEMENT JOINT UNDER THE NORTHBOUND LANE SHALL BE REPAIRED AS IT WILL FALL IN OR NEAR THE PHASE 1 WHEEL PATH (SEE ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, APP, TYPE 2). PRE-PHASE 1 WORK WILL ALSO INCLUDE REPAIRS TO THE EXISTING PAVEMENT AS DETAILED ON SHEET 13. REPAIRS MUST BE COMPLETE BY 10/15/2020 (SEE INCENTIVE/DISINCENTIVE CONTRACT TABLE ON THIS SHEET). ANY PRE-PHASE 1 WORK THAT IMPACTS TRAVEL LANES SHALL BE COMPLETED BY UTILIZING NIGHTTIME LANE CLOSURES PER ODOT SCD MT-95.30. THE LANE CLOSURES MAY ONLY BE IMPLEMENTED DURING HOURS ALLOWED AS

WINTER RESTRICTION

TRAFFIC SHALL NOT BE PLACED INTO PRE-PHASE 1 PART A OR B BEFORE APRIL 1" 2021 WITHOUT APPROVAL FROM THE PROJECT ENGINEER. THE CONTRACTOR MAY SUBMIT HIS OWN METHOD OF OPERATION TO ENTER INTO PHASE 1 SOUTH OF STATION 192+00 PRIOR TO APRIL 1" 2021, IN WRITING AND WITH DETAILED PLAN SHEETS TO THE PROJECT ENGINEER FOR REVIEW. THE CONTRACTOR SHALL RECEIVE APPROVAL FROM THE PROJECT ENGINEER AND DISTRICT WORK ZONE TRAFFIC ENGINEER BEFORE PROCEEDING WITH ANY MODIFIED PHASE 1.

PRE-PHASE 1 PARTS A AND B

UPON COMPLETION OF PRE-PHASE 1 TEMPORARY PAVEMENT WORK, THE CULVERT CROSSING OF NORTHBOUND I-71, JUST SOUTH OF YOUNG ROAD SHALL BE REPLACED. THIS WORK SHALL BE COMPLETED IN TWO PARTS, WITH ONE NORTHBOUND LANE MAINTAINED ON THE EXISTING NORTHBOUND SIDE, AND THE OTHER NORTHBOUND LANE MAINTAINED IN CONTRAFLOW WITH SOUTHBOUND TRAFFIC VIA THE CULVERT CROSSOVER THAT WAS CONSTRUCTED PRIOR.

PHASE 1

PHASE 1 CONSTRUCTS THE WESTERN HALF OF NORTHBOUND I-71 (PROPOSED RUMBLE STRIPS SHALL BE NON-PERFORMED). THIS WORK IS COMPLETED WITH NORTHBOUND TRAFFIC SHIFTED AWAY FROM THE WORKZONE, UTILIZING THE RECENTLY REPLACED OUTSIDE SHOULDER. ADDITIONALLY 2-LANE CROSSOVER SHALL BE CONSTRUCTED AT THE NORTH PROJECT TERMINI, AS WELL AS 2-RAMP CROSSOVERS AT THE SOUTHBOUND EXIT TO US 62. SOUTHBOUND TRAFFIC (INCLUDING RAMPS) SHALL BE MAINTAINED IN EXISTING LANES FOR THE DURATION OF PHASE 1 WORK. ALL RAMPS AT THE US 62 INTERCHANGE SHALL REMAIN OPEN DURING PHASE 1. ALL MEDIAN GRADING, SHALL BE COMPLETED IN PHASE I. ADDITIONALLY, THE TEMPORARY PAVEMENT ADJACENT TO NB-71 THAT WAS LEFT IN PLACE FROM PROJECT FRA-71-5.29 PID 84868 SHALL BE REMOVED.

PHASE 2

PHASE 2 CONSTRUCTS THE REMAINING EASTERN HALF OF NORTHBOUND I-71 (PROPOSED RUMBLE STRIPS SHALL BE NON-PERFORMED). THIS WORK IS COMPLETED WITH NORTHBOUND TRAFFIC SHIFTED AWAY FROM THE WORKZONE, UTILIZING THE RECENTLY CONSTRUCTED WESTERN HALF OF I-71. ALL SOUTHBOUND TRAFFIC (INCLUDING RAMPS) SHALL BE MAINTAINED IN EXISTING LANES FOR THE DURATION OF PHASE 2. RAMP D (NORTHBOUND EXIT RAMP TO US 62) SHALL BE CONSTRUCTED UNDER FULL CLOSURE WITH TRAFFIC DETOURED AS DETAILED WITHIN, THIS RAMP SHALL THEN BE OPENED PRIOR TO THE START OF PHASE 2A. THE NORTHBOUND ENTRANCE RAMP FROM US 62 (RAMP B) SHALL REMAIN OPEN DURING PHASE 2. RAMP B AND D CAN BE CLOSED FOR ONE WEEKEND TO COMPLETE INTERSECTION

SUB-PHASE 2A

SUB-PHASE 2A CONSTRUCTS RAMP B UNDER CLOSURE (NORTHBOUND ENTRANCE RAMP FROM US 62). THIS SHALL BE COMPLETED CONCURRENTLY WITH PHASE 2, BUT SHALL NOT BE CONSTRUCTED AT THE SAME TIME RAMP D IS CLOSED. THE PHASE 2A CLOSURE SHALL BE LIMITED TO 30 DAYS MAXIMUM. THE DETOUR ROUTE HAS BEEN DETAILED WITHIN. RAMP D SHALL REMAIN OPEN WITH THE EXCEPTION OF THE PHASE 2A 30-DAY CLOSURE.

WINTERIZATION

AT THE CONCLUSION OF PHASE 2A, THE PROJECT SHALL ENTER A WINTERIZATION MODE. SOUTHBOUND TRAFFIC SHALL REMAIN IN EXISTING LANES, WHILE NORTHBOUND TRAFFIC SHALL BE OPENED TO THREE LANES AS DETAILED WITHIN. ALL RAMPS SHALL BE OPEN DURING THE WINTER SET-UP WITH THE EXCEPTION OF PRE-PHASE 3 WORK. THE WINTERIZATION SET-UP SHALL BE IN PLACE BY 10/01/2021 (SEE INCENTIVE/DISINCENTIVE CONTRACT TABLE ON THIS SHEET).

DURING PRE-PHASE 3, THE RAMP A/US 62 INTERSECTION SHALL BE CONSTRUCTED UTILITIZING TWO WEEKEND CLOSURES. RAMP A (SOUTHBOUND EXIT TO US 62) AND RAMP C (SOUTHBOUND ENTRANCE RAMP FROM US 62) WILL BE DETOURED DURING THE TWO WEEKENDS AS DETAILED WITHIN. ADDITIONALLY, TEMPORARY PAVEMENT SLONG RAMP A SHALL BE CONSTRUCTED FOR USE IN PHASE 3.

IF THE CONCRETE PAVEMENT OPTION IS ULTIMATELY IMPLEMENTED, TEMPORARY PAVEMENT FROM PHASE 2 (ALONG NB INSIDE SHOULDER) SHALL BE REMOVED DURING PRE-PHASE 3. THIS WORK SHALL BE COMPLETED UNDER SHOULDER CLOSURE. THE SHOULDER CLOSURES SHALL BE PER ODOT SCD MT-95.45 EXCEPT DRUMS MAY BE USED IN PLACE OF PCB AS LONG AS DROP-OFF REQUIREMENTS ARE MET (PER ODOT SCD MT-101.90).

PHASE 3

PHASE 3 CONSTRUCTS THE MAJORITY OF SOUTHBOUND I-71. BOTH LANES OF SOUTHBOUND TRAFFIC ARE MAINTAINED BY CROSSING OVER ONTO THE NORTHBOUND SIDE OF THE FREEWAY. RAMP A (SOUTHBOUND EXIT RAMP TO US 62) SHALL ALSO BE CONSTRUCTED WITH TRAFFIC BEING MAINTAINED ON TEMPORARY PAVEMENT AND EXISTING RAMP C (SOUTHBOUND ENTRANCE RAMP FROM US 62). RAMP C (SOUTHBOUND ENTRANCE RAMP FROM US 62) SHALL REMAIN CLOSED FOR THE DURATION OF THIS PHASE. THE DETOUR ROUTE HAS BEEN DETAILED WITHIN. ADDITIONALLY, THE TEMPORARY PAVEMENT ADJACENT TO NB-71 THAT WAS LEFT IN PLACE FROM PROJECT FRA-71-5.29 PID 84868 SHALL BE REMOVED. WITH THE EXCEPTION OF THE CROSSOVERS, THE FINAL WEARING COURSE FOR SOUTHBOUND I-71 SHALL BE PLACED AT THE CONCULSION OF PHASE 3

SUB-PHASE 3A

SUB PHASE 3A CONSTRUCTS THE REMAIN PORTION OF I-71 IN THE VICINITY OF RAMP C. ALL LANES SHALL REMAIN IN THE PHASE 3 SET-UP EXCEPT THAT RAMP A IS MAINTAINED UTILIZING THE NEWLY CONSTRUCTED PAVEMENT. RAMP C (SOUTHBOUND ENTRANCE RAMP FROM US 62) SHALL REMAIN CLOSED FOR THE DURATION OF THIS PHASE. THE DETOUR ROUTE HAS BEEN DETAILED WITHIN.

AT THE CONCLUSION OF PHASE 3 AND 3A, TRAFFIC SHALL BE PLACED INTO THEIR FINAL CONDITION AND THE REMAINING EXISTING I-71 PAVEMENT THAT IS TO BE RESURFACED (OUTSIDE THE FULL DEPTH LIMITS) SHALL BE MILLED TO THE DEPTH SPECIFIED IN THE ROADWAY PLANS. THE FINAL WEARING COURSE OF BOTH NEWLY CONSTRUCTED AND EXISTING MILLED PAVEMENTS SHALL THEN BE INSTALLED UNLESS PREVIOUSLY CONSTRUCTED. ONCE COMPLETED, FINAL PAVEMENT MARKINGS SHALL BE APPLIED PER THE TRAFFIC CONTROL PLANS AND NON-PERFORMED RUMBLE STRIPS FROM PHASE 1 AND PHASE 2 SHALL BE INSTALLED. THIS WORK SHALL BE COMPLETED BY UTILIZING ODOT SCD MT-97.11. IN ADDITION TO THIS WORK, THE MEDIAN CABLE BARRIER SHALL BE INSTALLED PER THE ROADWAY PLANS AND TEMPORARY PAVEMENT SHALL BE REMOVED BY UTILIZING ODOT SCD MT-95.45 EXCEPT DRUMS MAY BE USED IN PLACE OF PCB AS LONG AS DROP-OFF REQUIREMENTS ARE MET (PER ODOT SCD MT-101.90).

GENERAL

ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION), COPIES OF WHICH ARE AVAILABLE FROM THE OHIO DEPARTMENT OF TRANSPORTATION, OFFICE OF TRAFFIC ENGINEERING, 1980 WEST BROAD STREET, COLUMBUS, OHIO 43223.

THE ROADWAY SHALL NOT BE OPENED TO TRAFFIC UNTIL PERMANENT TRAFFIC CONTROLS ARE IN PLACE, OR UNTIL TEMPORARY TRAFFIC CONTROLS, APPROVED BY THE ENGINEER, ARE INSTALLED. THE CONTRACTOR ASSUMES ALL LIABILITY FOR THE PREMATURE REMOVAL OF TEMPORARY TRAFFIC CONTROLS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REINSTALLATION AND/OR REPLACEMENT OF ALL PERMANENT TRAFFIC CONTROL DEVICES DAMAGED OR REMOVED DURING THE CONSTRUCTION. PERMANENT TRAFFIC CONTROL THAT IS NO LONGER IN CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE REPLACED IMMEDIATELY. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR MISSING, DAMAGED AND IMPROPERLY PLACED TRAFFIC CONTROL DEVICES.

THE CONTRACTOR SHALL PROVIDE A 24 HOUR CONTACT WHO WILL BE RESPONSIBLE FOR MAINTENANCE OF TRAFFIC FOR THE DURATION OF THE PROJECT.

CONSTRUCTION OPERATIONS SHALL NOT BEGIN UNTIL ALL TEMPORARY TRAFFIC CONTROL DEVICES ARE IN PLACE AND APPROVED BY THE ENGINEER AND THE DISTRICT.

MAINTENANCE OF ALL TRAFFIC CONTROL DEVICES INCLUDING DRUMS, SIGNS, BARRICADES, SIGN BOARDS, DETOUR SIGNAGE, ETC., SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

STEADY-BURNING TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES IN USE AT NIGHT. ALL ADVANCE SIGNING SHALL BE EQUIPPED WITH TYPE "A" FLASHING LIGHTS AND (2) ORANGE FLAGS (24"X24"). CONES ARE NOT APPROVED FOR USE AT NIGHT, LIGHTS ARE NOT REQUIRED ON SIGNS IN PLACE DURING DAYLIGHT HOURS.

FOR AREAS ADJACENT TO VEHICULAR TRAFFIC, OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH THE PROPER TRAFFIC CONTROL DEVICES AT ALL TIMES, DROP OFFS WITHIN THE WORK ZONE SHALL CONFORM TO THE REQUIREMENTS SET FORTH ON ODOT STANDARD CONSTRUCTION DRAWING MT-101.90.

TEMPORARY PAVEMENT WEDGE

TEMPORARY PAVEMENT WEDGES SHALL BE PROVIDED AT ALL TIMES WHERE TRAFFIC IS REQUIRED TO TRAVEL FROM OR ONTO A PAVEMENT SURFACE OF A DIFFERENT ELEVATION, AROUND MANHOLES, AT CATCH BASINS, ETC. THE MINIMUM SLOPE OF THE TEMPORARY PAVEMENT WEDGE SHALL BE 3:1 ALONG LONGITUDINAL JOINTS AND 120:1 AT TRANSVERSE JOINTS. THESE WEDGES SHALL BE REMOVED PRIOR TO PLACING THE SPECIFIED FINAL PAVEMENT COURSE. PAYMENT FOR ALL WORK, MATERIALS, ETC. ASSOCIATED WITH THIS ITEM SHALL BE PAID FOR UNDER THE ITEM 614, MAINTAINING TRAFFIC, AS PER PLAN LUMP SUM.

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 ACTIVITES. THIS WILL INCLUDE ANY NOTIFICATION REQUIREMENTS FOR RESTRICTIONS THAT HAVE A DURATION GREATER THAN 12 HOURS.

TIME LIMITATION ON A DETOUR

INTERCHANGE RAMPS SHALL BE MAINTAINED AT ALL TIMES, EXCEPT WHERE SPECIFIED IN THE PLANS AS OUTLINED IN THE CHART BELOW. FOR EACH RESPECTIVE DETOUR AND CLOSURE, A DISINCENTIVE SHALL BE ASSESSED FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

	WINDOW CONTRA	ICT TABLE	
RAM (MOVEI	PHASE	MAXIUM DURATION OF CLOSURE	DISINCENTIVE PER DAY
RAMI (I-71 SB T	PRE-PHASE 3	2-WEEKENDS (7PM FRI-7AM MON)	\$4, 600
RAMI (US-62 TC	PHASE 2A	30 DAYS	\$ 7 , 400
RAMI (US 62 TO	PRE-PHASE 3	2-WEEKENDS	\$1,100

INCENTIVE/D.	ISINCENTIVE COI	VTRACT T	ABLE
DESCRIPTION OR LOCATION OF CRITICAL WORK	COMPLETION DATE	TIME PERIOD	DISINCENTIVE \$ PER TIME PERIOL
PRE-PHASE 1 PAVEMENT REPAIRS COMPLETED	10/15/2020	DAY	\$3, 200
COMPLETE PHASE 2 AND IMPLEMENT WINTERIZATION SET-UP	10/01/2021	DAY	\$6,000



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MAINTENANCE OF TRAFFIC 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 FOR ITEM 614 MAINTAINING TRAFFIC, AS PER PLAN.

ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, APP, TYPE 1: ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, APP, TYPE 2: ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, APP, TYPE 3: ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, APP, TYPE 4:

THIS ITEM SHALL BE UTILIZED FOR THE PAVEMENT REPAIRS NEEDED DURING THIS CONSTRUCTION PROCESS. ALL AREAS TO BE REPAIRED SHALL BE LOCATED BY THE ENGINEER. IT IS LIKELY THAT REPAIRS WILL BE NEEDED PRIOR TO EACH PHASE SWITCH. GREAT CARE SHALL BE TAKEN TO MAINTAIN THE EXISTING PAVEMENT CROSS SLOPE AS WELL AS ALL LONGITUDINAL SLOPES. THE TYPE OF REPAIR SHALL BE DETERMINED BY THE PROJECT ENGINEER. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED FOR MAINTENANCE OF TRAFFIC FOR PAVEMENT REPAIRS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

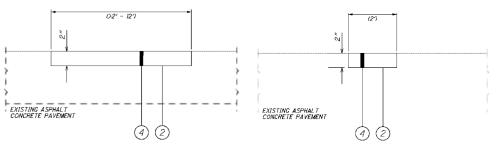
TYPE 1 - IS TO BE USED WHEN YOU NEED TO MILL & FILL AN AREA OF VARYING LENGTH AND HAVE AN AVERAGE WIDTH OF NOT LESS THAN 2 FEET.

TYPE 2 - IS TO BE USED FOR FIXING THE LONGITUDINAL JOINT ISSUES OF VARYING LENGTH AND HAVE A CONSISTENT WIDTH OF 2 FEET. THE JOINT UNDER THE EXISTING NORTHBOUND LANE LINE IS EXPECTED TO BE WITHIN THE PHASE 1 WHEELPATH AND SHALL BE REPAIRED PRIOR TO SHIFTING TRAFFIC.

TYPE 3 - IS TO BE USED FOR DEEPER REPAIRS OF VARYING LENGTH AND WILL HAVE AN AVERAGE WIDTH OF NOT LESS THAN 4 FEET.

TYPE 4 - IS TO BE USED FOR COMPOSITE PAVEMENT REPAIRS OF VARYING LENGTH AND WILL HAVE AN AVERAGE WIDTH OF NOT LESS THAN 3 FEET.

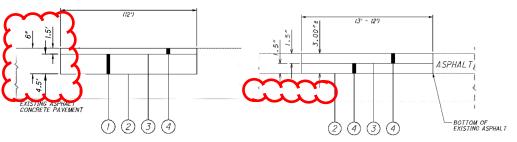
ALL COSTS ASSOCIATED WITH REMOVING AND REPLACING PAVEMENT AND TACK COAT FOR THE REPAIRS SHALL BE INCIDENTAL TO ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN.



TYPE 1 DETAIL

PARTIAL DEPTH PAVEMENT REPAIR, AS PER PLAN TYPE 1

TYPE 2 DETAIL PARTIAL DEPTH PAVEMENT REPAIR, AS PER PLAN TYPE 2



TYPE 3 DETAIL PARTIAL DEPTH PAVEMENT REPAIR, AS PER PLAN TYPE 3

TYPE 4 DETAIL PARTIAL DEPTH PAVEMENT REPAIR, AS PER PLAN TYPE 4

LEGEND:

- (1) ITEM 301 ASPHALT CONCRETE BASE, PG64-22 (3) ITEM 407- TACK COAT FOR INTERMEDIATE @ 0.05 PER SY.YD.
- (2) ITEM 407 TACK COAT @0.075 PER SY. YD. (4) ITEM 441 -TYPE 1 (AS DESCRIBED IN C&MS 615.05)

ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC. CLASS B.

APP, TYPE 1 = 300 S.Y. ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, APP, TYPE 2 = 6844 S.Y.

ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, APP. TYPE 3 = 2000 S.Y.

ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B. APP, TYPE 4 = 500 S.Y.

MATERIAL DELIVERY AND INSTALLATION

BRIDGE BEAM, NOISE WALL PANELS AND OTHER LARGE MATERIALS THAT ARE TYPICALLY INSTALLED DIRECTLY FROM DELIVERY TRUCKS MAY ARRIVE UP TO 12 HOURS BEFORE INSTALLATION.

DELIVERY TRUCKS WILL BE PERMITTED TO PARK ON THE SHOULDER WITH A SHOULDER CLOSURES AS DETAILED IN MT-95.45. A TRUCK MOUNTED ATTENUATOR SHOULD BE USED IF VEHICLES WILL BE OCCUPYING THE SHOULDER FOR 2 HOURS OR MORE.

NOISE WALL PANELS SHALL NOT BE INTALLED DURING PEAK HOURS IF ANY EQUIPMENT/VECHILES WILL BE WITH IN 12 FEET OF A TRAVEL LANE UNLESS SEPARATED BY PORTABLE BARRIER.

PORTABLE BARRIER SHALL NOT BE DELIVERED OR INSTALLED DURING PEAK HOURS.

MATERIAL DELIVERY TRUCKS SHALL NOT EGRESS THE WORKSITE DURING PEAK HOURS

PEAK HOURS ARE CONSIDERED TO BE 5AM-9AM AND 3PM-6PM

REFER TO CMS 614.035 FOR ALL OTHER STORAGE OF EQUIPMENT, VEHICLES AND MATERIALS

SPEED MEASUREMENT MARKINGS

THE CONTRACTOR SHALL PLACE A SERIES OF SPEED MEASUREMENT MARKINGS ON THE ROADWAY TO ASSIST IN THE ENFORCEMENT OF SPEED REGULATIONS WITHIN THE WORK ZONE, EACH SPEED MEASUREMENT MARKING SHALL CONSIST OF ONE WHITE TRANSVERSE 24-INCH LINE, 4 FOOT IN LENGTH. THE MARKINGS SHALL BE PLACED AT ONE-QUARTER MILE INTERVALS FOR A MINIMUM OF 1 MILE LENGTH ALONG THE ROADWAY, AT LOCATIONS AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER. SPEED MEASUREMENT MARKINGS SHALL NOT BE LOCATED WITHIN 0.5 MILE OF A TAPER, SHIFT, CROSSOVER, ENTRANCE OR EXIT RAMP. SPEED MEASUREMENT MARKINGS ARE TYPICALLY LOCATED SUCH THAT THEY EXTEND 2 FEET ON EITHER SIDE OF THE CENTER LINE OR THE EDGE LINE, OR ARE LOCATED ENTIRELY ON THE SHOULDER: HOWEVER, IN WORK ZONES IT MAY BE NECESSARY TO CENTER THESE MARKINGS WITHIN A LANE.

THE MARKINGS SHALL BE LAID OUT BY A REGISTERED SURVEYOR. A RECORD IS TO BE KEPT AND ONE ORIGINAL SIGNED AND SEALED DOCUMENT IS TO BE SENT TO THE DISTRICT TRAFFIC ENGINEER AND ONE COPY IS TO BE SENT TO THE DISTRICT CONSTRUCTION ENGINEER.

PAYMENT WILL BE FOR EACH 24 INCH WIDE BY 4 FEET LONG MARKING AND SHALL INCLUDE THE PAVEMENT MARKING MATERIAL USED AND THE SURVEYING WORK. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER:

CONCRETE OPTION

ITEM 646 SPECIAL - AIR SPEED ZONE MARKING 18 EACH (PHASE 3)

ASPHALT OPTION

ITEM 644 SPECIAL - AIR SPEED ZONE MARKING 18 EACH (PHASE 3)

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.

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

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 ACTIVITES. THIS WILL INCLUDE ANY NOTIFICATION REQUIREMENTS FOR RESTRICTIONS THAT HAVE A DURATION GREATER THAN 12 HOURS.

PRE-MAINTENANCE OF TRAFFIC MEETING

WEEKLY MAINTENANCE OF TRAFFIC MEETING

FACH WFFK.

A PRE-MAINTENANCE OF TRAFFIC MEETING SHALL BE HELD (MINIMUM 14 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 CONTROL COORDINATOR (614-645-6269 OR 614-645-5845) FROM THE CITY OF COLUMBUS TRANSPORTATION DIVISION.



PERMITS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS IN ADVANCE OF ANY WORK BEING DONE IN ALL LOCAL AGENCIES RIGHT OF WAY BY THE CONTRACTOR OR SUB-CONTRACTORS AS REQUIRED BY CMS 107.02.

CITY OF COLUMBUS PERMITS CAN BE OBTAINED FROM THE DIVISION OF PLANNING AND OPERATIONS PERMIT OFFICE: PHONE NUMBER IS 614-645-7497 (THIS PART WOULD ONLY BE USED FOR PROJECTS IN COLUMBUS)

			•		SHEET	T NUM.		•				PA	RT.		ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE
11	13	399	400	401	402	407	408	410	927	928	1275 01/IMS/PV	02/NHS/PV	03/IMS/BR	04/IMS/BR	IIEW	EXT	TOTAL	ONT	DESCRIPTION	NO.
																			EROSION CONTROL	
		38							177		215				601	11000	215	SY	RIPRAP, TYPE D	
							287						287		601	20001	287	SY	CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN	1112, 119
	4	191									195				601	21050	195	SY	TIED CONCRETE BLOCK MAT, TYPE 1	
		321									321				601	21060	321	SY	TIED CONCRETE BLOCK MAT, TYPE 2	
									41		41				601	23000	41	SY	ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1	
									65		65				601	32000	65		ROCK CHANNEL PROTECTION, TYPE A WITH FILTER	
		4								15	19				601	32100	19		ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	
		44								36	80				601	32200	80	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
3 ,125								<u> </u>			2 22,500	5,625			659 659	00100 00300	3 28,125	EACH CY	SOIL ANALYSIS TEST TOPSOIL	
,123											22,300	3,023			033	00300	20,123	CI	TOF SOIL	
000						253,382					202,705				659	10000	253,382	SY	SEEDING AND MULCHING	
669											10,135	2,534		-	659	14000	12,669	SY	REPAIR SEEDING AND MULCHING	-
.669											10,135	2,534 7.01			659 659	15000 20000	12,669 35.33	SY TON	INTER-SEEDING COMMERCIAL FERTILIZER	-
.35											41.84	10.51			659	31000	52.35	ACRE	LIME	
10.7											1.100	001			25.0	75000	1.407	140.41	WATER	
103											1,122	281			659	35000	1,403	MGAL	WATER	_
70					7E 107						456	114			659	40000	570		MOWING	-
					35,197 1,655					97	1,759 1,402	33,438 350			670 670	00700 00710	35,197 1,752	SY SY	DITCH EROSION PROTECTION DITCH EROSION PROTECTION MAT, TYPE A	-
			1		1,000			LS		31	LS	330			832	15001	LS	31	STORM WATER POLLUTION PREVENTION PLAN, AS PER PLAN	410
								1												
								LS			LS				832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	410
								LS			LS	070 500			832	15010	LS	5.0	STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	410
								930,000		40	697,500	232,500			832	30000	930,000	EACH	EROSION CONTROL	
										48 203	48 203				836 836	10000	48 203	SY SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 3	
																****			DRAINAGE	
									LS		LS				503	11101	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN	937
									LS		LS				503	21300	LS		UNCLASSIFIED EXCAVATION	937
									3,669 49		3,669				509 511	10000	3,669	LB	EPOXY COATED REINFORCING STEEL	077
			1		+			1	35		49 35				511	46001 46510	49 35	SY CY	CLASS OC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN CLASS OC1 CONCRETE, FOOTING	937
-									51		51				512	10050	51	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
									173		173			+	512	33000	173	SY	TYPE 2 WATERPROOFING	-
									181		181				512	33010	181	SY	TYPE 3 WATERPROOFING	-
									33		33				516	13600	33	SF	1" PREFORMED EXPANSION JOINT FILLER	
															540	0.07.0				
		45							LS	7.4	LS				518	21230	LS	0.4	POROUS BACKFILL WITH GEOTEXTILE FABRIC	-
		15			-			-		74	89				602	20000	89	CY	CONCRETE MASONRY	-
		114,349								462	462 85,762	28,587			602 605	98100 11100	462 114,349	FT FT	MASONRY, MISC.:PATCHING EXISTING CONCRETE CONDUIT W/ PORTLAND CEMENT MORTAR 6" SHALLOW PIPE UNDERDRAINS	
		1,140									855	285			605	11101	1,140	FT	6" SHALLOW PIPE UNDERDRAINS, AS PER PLAN	943
	50	3,644									2,770	924			605	13300	3,694	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	
	30	109,491			_						82,118	27,373			605	14000	109,491		6" BASE PIPE UNDERDRAINS	+
		109,491									464 464	21,313			605	31101	464		AGGREGATE DRAINS, AS PER PLAN	-
-			9,371								7,028	2,343			611	00510	9,371		6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	-
+	50		7,,,,,								7500	2,313	\vdash	+	611	01500	7387		6" CONDUIT, TYPE F	1
		(693								472	221			611	05900	693	FT	15" CONDUIT, TYPE B	
		(200	く							074				044	05000	222)	TOW CONDUIT TYPE D. 700 CO.	
		(690 5,7 5 7		+			+			634	56 4 , 894 \)		611	05900	690 5 3 57	FT FT	15" CONDUIT, TYPE B, 706.02 15" CONDUIT, TYPE C	
			90								13	77			611	06100	90	FT	15" CONDUIT, TYPE C, 706.02	
			88								70	18			611	06700	88	FT	15" CONDUIT, TYPE F, 707.05, TYPE C	
			210		1						168	42			611	06700	210	FT	15" CONDUIT, TYPE F, 707.05, TYPE C OR 707.21	
				1		 		+			1,000			+	611	07400	1,090	FT	I8" CONDUIT, TYPE B	+
			1,090			1		1			1,090	ı								
			1,090 226		<u> </u>						226				611	07400	226	FT	18" CONDUIT, TYPE B, 706.02	
			226 2,446								226 1,504	942			611 611	07600	2,446	FT	18" CONDUIT, TYPE B, 706.02 18" CONDUIT, TYPE C	
			226								226	942			611			FT	18" CONDUIT, TYPE B, 706.02	

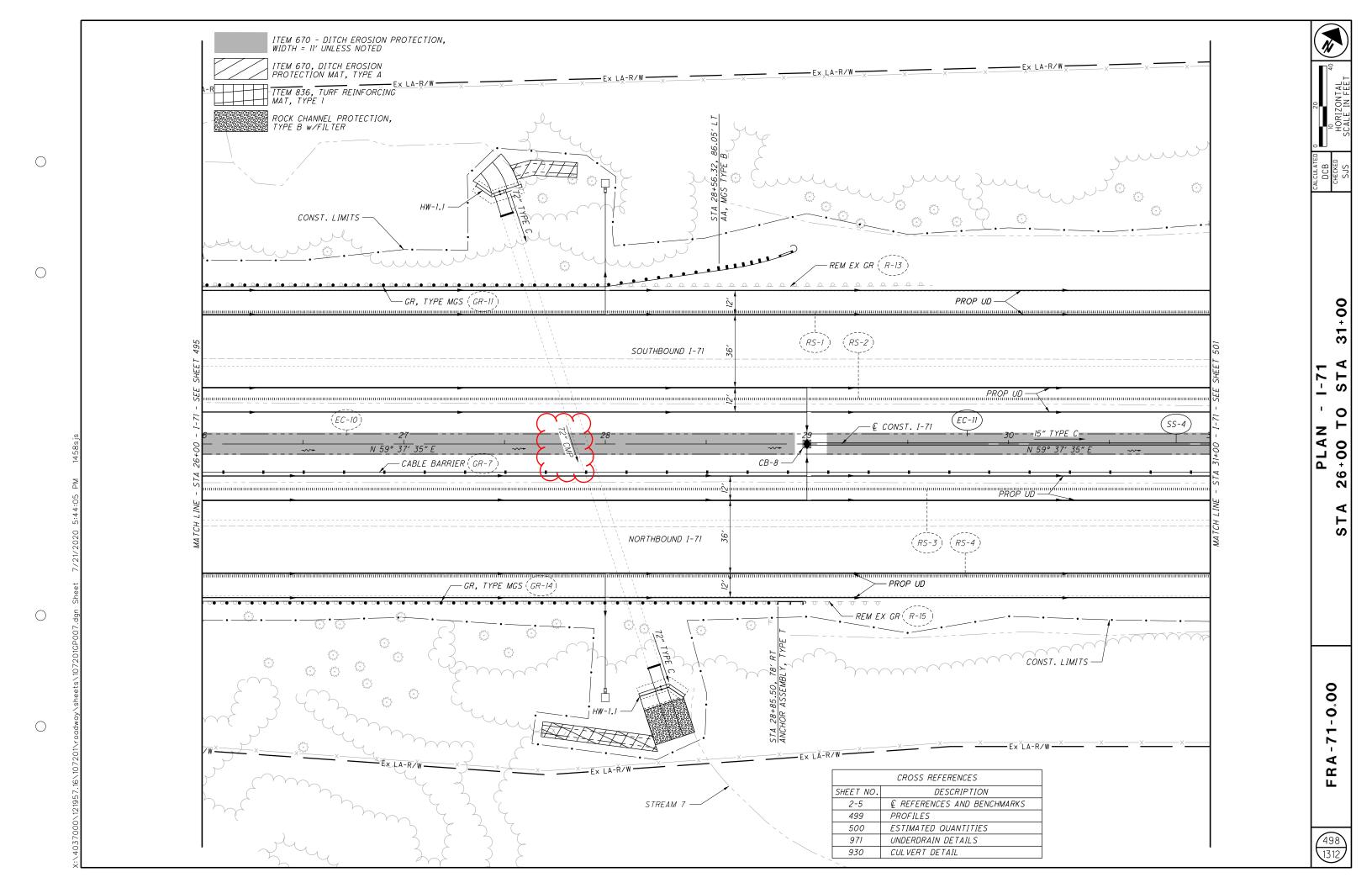
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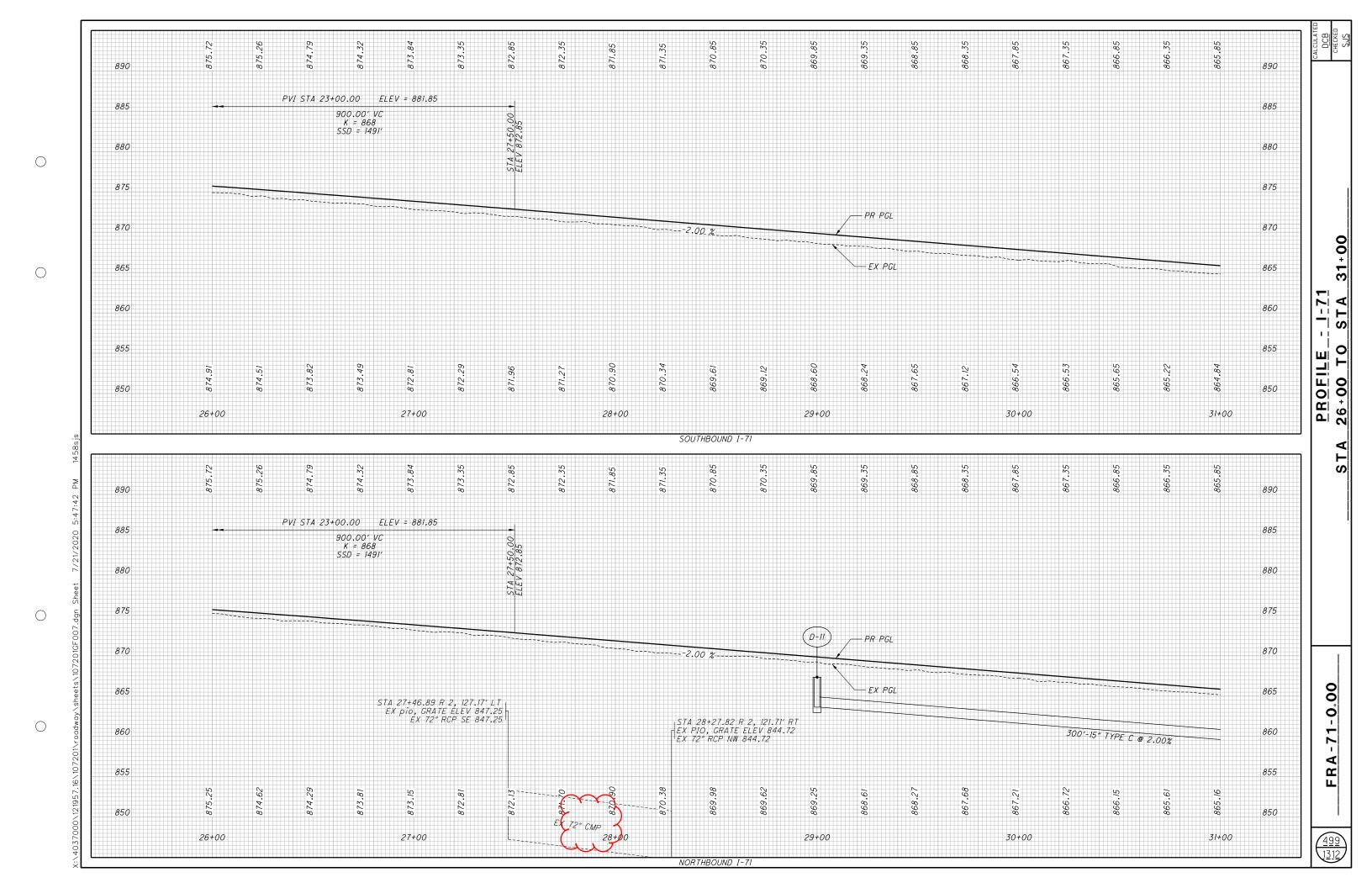
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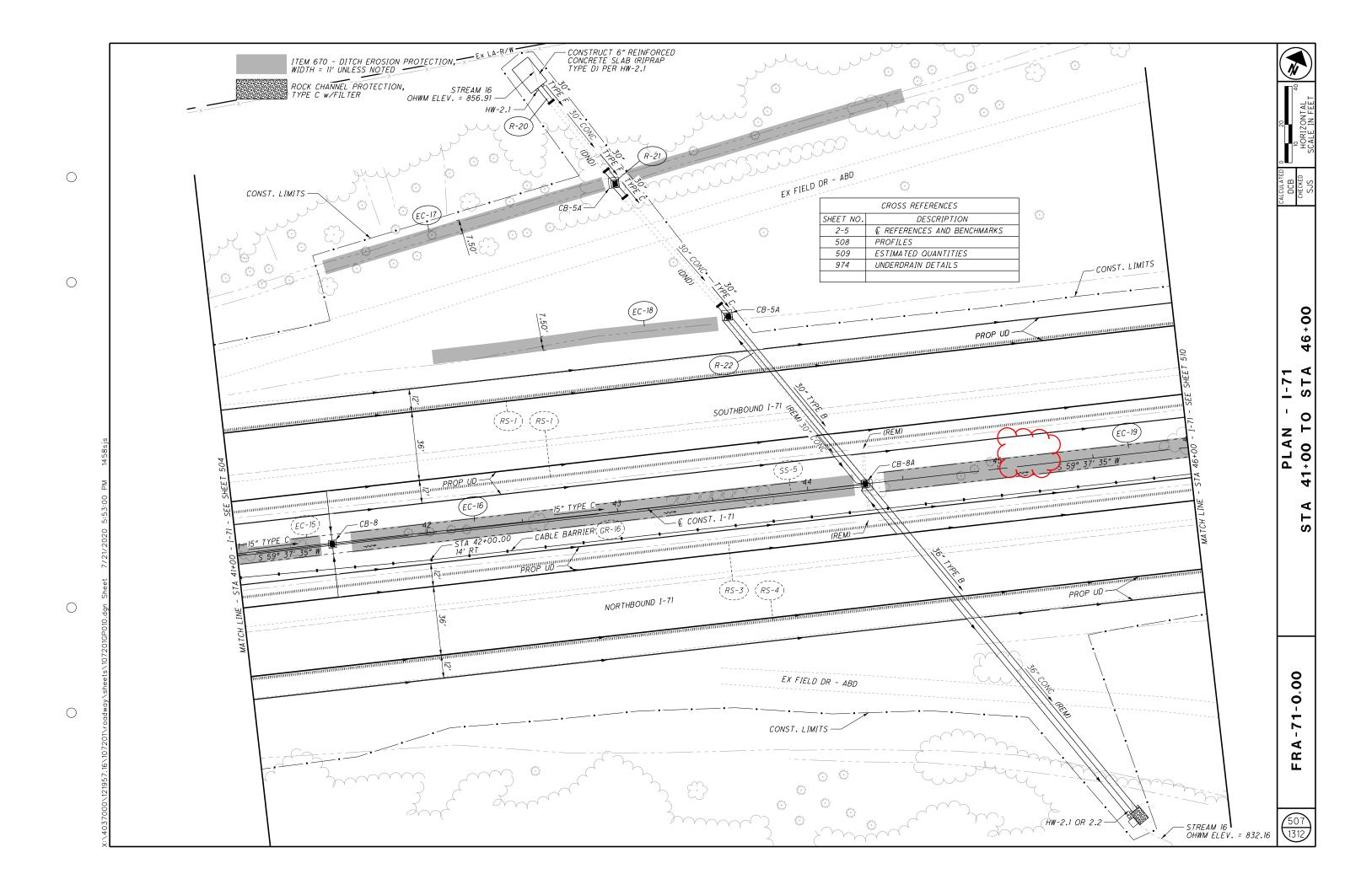
					T NUM.		 		PA	RT.		 ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEE
13	400	402	1103	ASPH CALC	CONC CALC	RAMP CALC		01/IMS/PV	02/NHS/PV	03/IMS/BR	04/IMS/BR		EXT	TOTAL			NC
								~						~~		PAVEMENT	
225	<u> </u>							225				251	01021	225	SY	PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN, TYPE 1	13
900	/						1 (900	ノ			251	01021	900	SY	PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN, TYPE 2	13
,500)						+	4,500	1)			251	01021	4,500	SY	PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN, TYPE 3	13
									/					لك	D -	· · ·	
						3,871		3,871				304	20000	3,871	CY	AGGREGATE BASE	
						21,896		21,896				452	15060	21,896	SY	12.5" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P WITH QC/QA	
	350							350				609	24510	350	FT	CURB, TYPE 4-C	\top
																PAVEMENT OPTIONS	
																ASPHALT OPTION	
				43,290		1		43,290				254	100000	43,290		PAVEMENTYPLANTING, ASPHALT CONCRETE TI.ST THICKNYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY	
				108,694				72,825	35,869			302	46001	108,694		ASPHALT CONCRETE BASE, AS PER PLAN	13
				60,969	9			40,849	20,120			304	roson	60,969	CY	ACKREGATEARASE	ψ
				67.760	,	-		40.041	01.101			407	20000	67.760	641	NON TOLOWING THOW COLT	+-
				63,362		+		42,241	21,121			407	20000	63,362	GAL	NON-TRACKING TACK COAT	+
				31,730		+		21,259	10,471			442	00100	31,730		ANTI-SEGREGATION EQUIPMENT	
				16,977				11,375 10,907	5,602			442	10100	16,977	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)	-
		19.58		10,360	<u> </u>			13.12	5,453 6.46			442 618	10301 40600	16,360 19.58	CY MILE	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	13
		400				+		264	136			618	40200	400	FT	RUMBLE STRIPS, SHOULDER (CONCRETE)	+
		700						207	130			010	40200	700	' '	NOWBEL STATES, SHOOLDEN CONCALTED	+
						+										CONCRETE OPTION	+
					32,208	1		32,208				254	01000	32,208	SY	PAVEMENT PLANING, ASPHALT CONCRETE (1.5" THICK)	+
					11,083	1		7,389	3,694			254	01010	11,083		PAVEMENT PLANING, PORTLAND CEMENT CONCRETE (1.5" THICK)	_
					59,389			39,791	19,598			304	20000	59,389	CY	AGGREGATE BASE	+
					4,511			3,007	1,504			407	20000	4,511	GAL	NON-TRACKING TACK COAT	1
					8			5	3			442	10100	8	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)	
					1,354			903	451			442	10300	1,354	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447)	
					349,075			233,880	115,195			452	16060	349,075	SY	13.5" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P WITH QC/QA	
		19.66						12.98	6.68			618	40700	19.66	MILE	RUMBLE STRIPS, SHOULDER (CONCRETE)	
					11,083			7,389	3,694			848	90000	11,083	SY	OVERLAY, MISC.:CONCRETE PAVEMENT CLASS QC 1P WITH QC/QA	
																LIGHTING	_
			12			1		12				625	00450	12	EACH	CONNECTION, FUSED PULL APART	+
			21					21				625	00480	21	EACH	CONNECTION, UNFUSED PERMANENT	+
			6					6				625	10490	6	EACH	LIGHT POLE, CONVENTIONAL, AT15B35	
			4					4				625	13200	4	EACH	LIGHT TOWER, BBBB100	
			6					6				625	14000	6	EACH	LIGHT POLE FOUNDATION, 24" X 6' DEEP	
			4					4				625	15200	4	EACH	LIGHT TOWER FOUNDATION, 36" X 25' DEEP	
			7,191					7,191				625	23200	7,191		NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	
			696					696				625	23400	696		NO. 10 AWG POLE AND BRACKET CABLE	
			2,768			1		2,768	ļ			625	24320	2,768	FT	1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES	
			1,417			1		1,417				625	25400	1,417	FT	CONDUIT, 2", 725.04	_
									ļ								
			257					257				625	25401	257	FT	CONDUIT, 2", 725.04, AS PER PLAN	110
			389					389	<u> </u>			625	25500	389	FT	CONDUIT, 3", 725.04	
			166			+		166				625	25902	166	FT	CONDUIT, JACKED OR DRILLED, 725.04, 3"	
			6					6	<u> </u>			625	26253	6	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, 480V	11
			16			+		16	<u> </u>			625	26263	16	EACH	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, 480V	11/
			2			-		2				625	27503	2	FACIL	LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN, 480V	110
			2 4,299			-		4,299				625	29000	2 4 , 299	EACH FT	TRENCH	+ "
			4,233			+		4,233	1			625	29920	4,233	EACH	STRUCTURE JUNCTION BOX	+
			8			+		8				625	30700	8	EACH	PULL BOX, 725.08, 18"	+
			2			+		2				625	30706	2	EACH	PULL BOX, 725.08, 24"	+
								-	<u> </u>			023	30100		LACII	1 011 1000, 120.000, 24	+-
			14					14				625	32000	14	EACH	GROUND ROD	+
			1	1		1		1 1	1			625	33000	1	EACH	STRUCTURE GROUNDING SYSTEM	+
			1			1		1	1			625	34001	1		POWER SERVICE, AS PER PLAN	11
			4,299	1		1		4,299	1			625	36000	4,299		PLASTIC CAUTION TAPE	
			LS	1		1		LS	1			625	37001	LS		SERVICE TO UNDERPASS LIGHTING, AS PER PLAN	11
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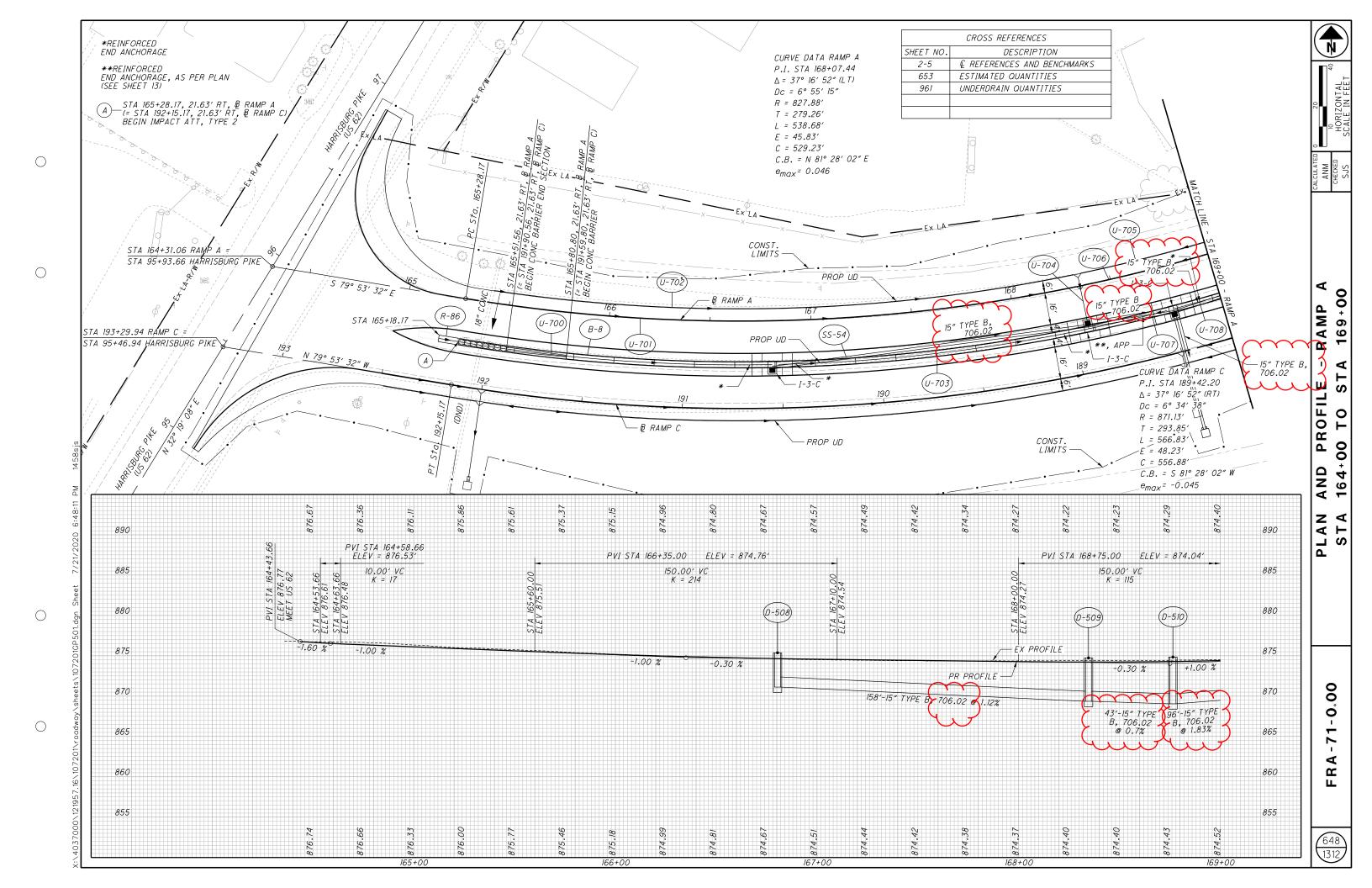
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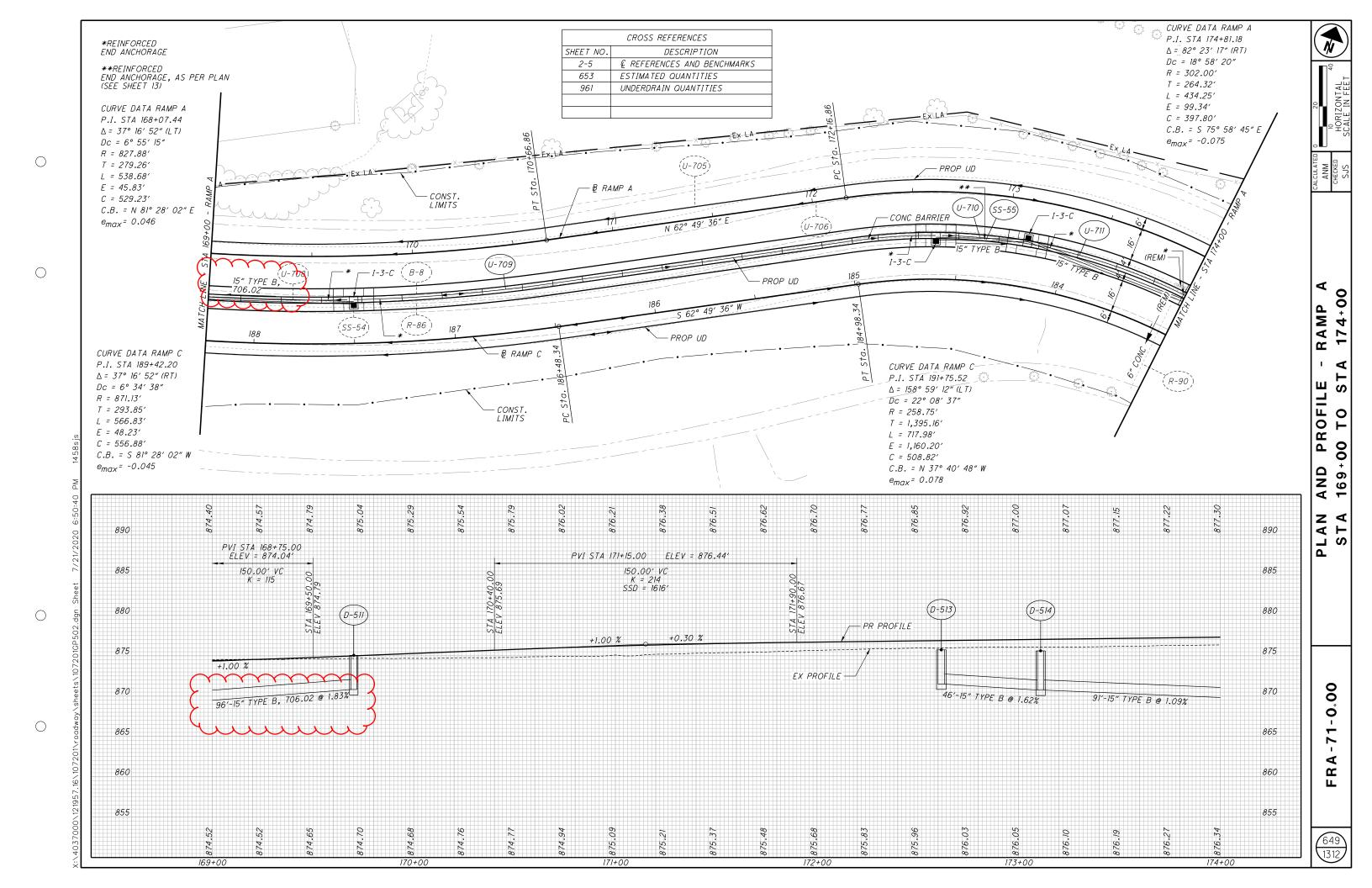
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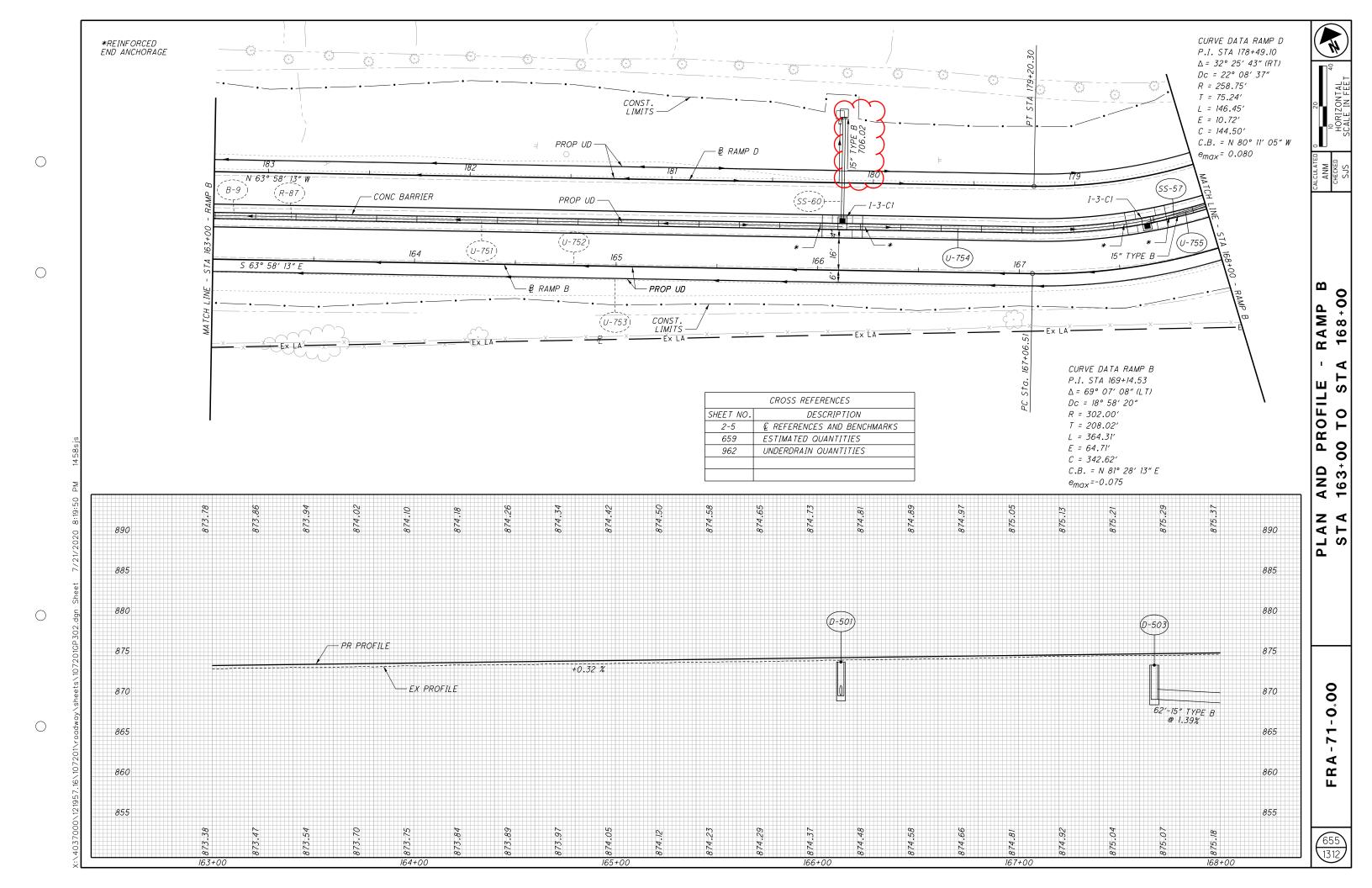


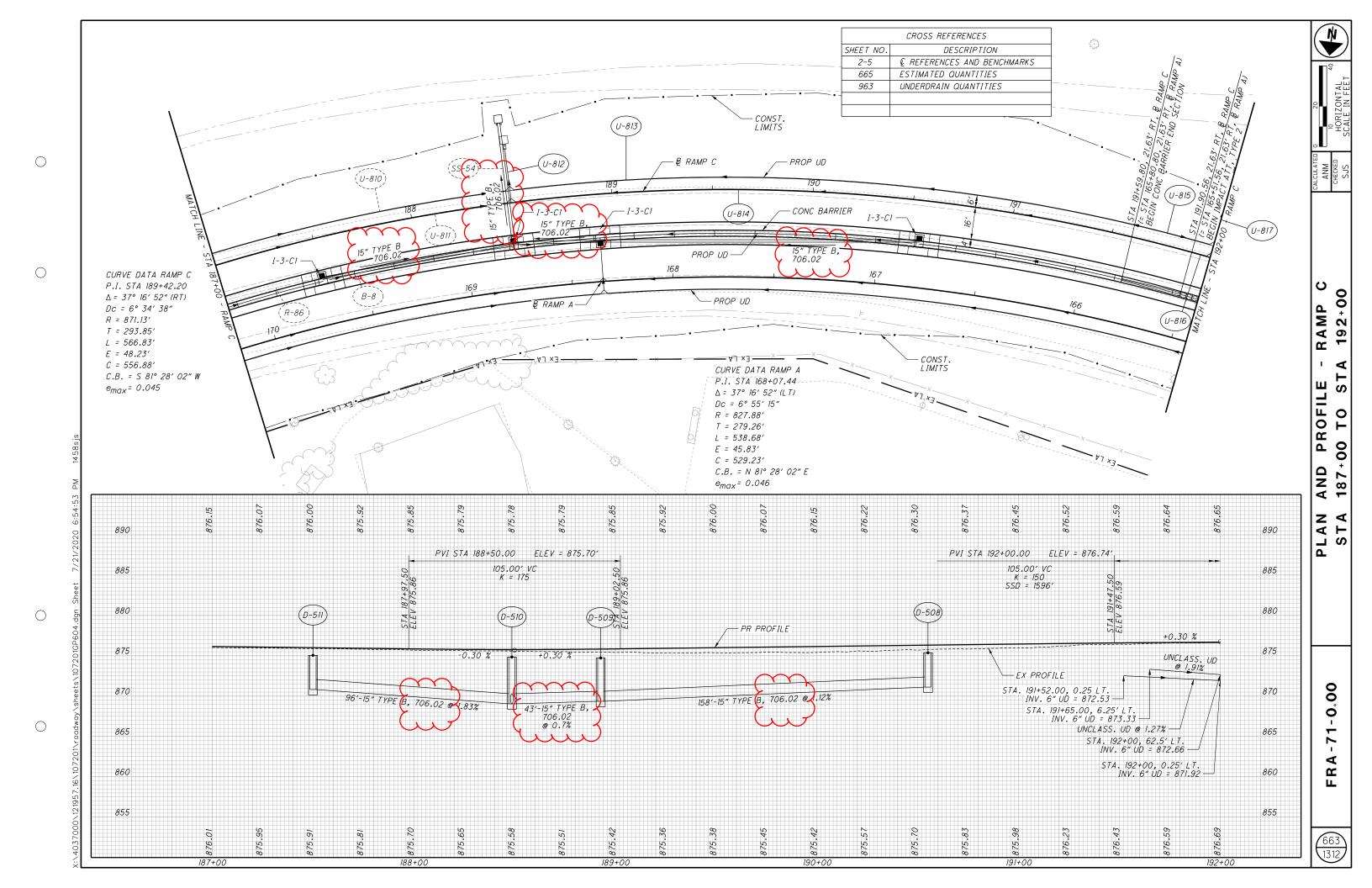


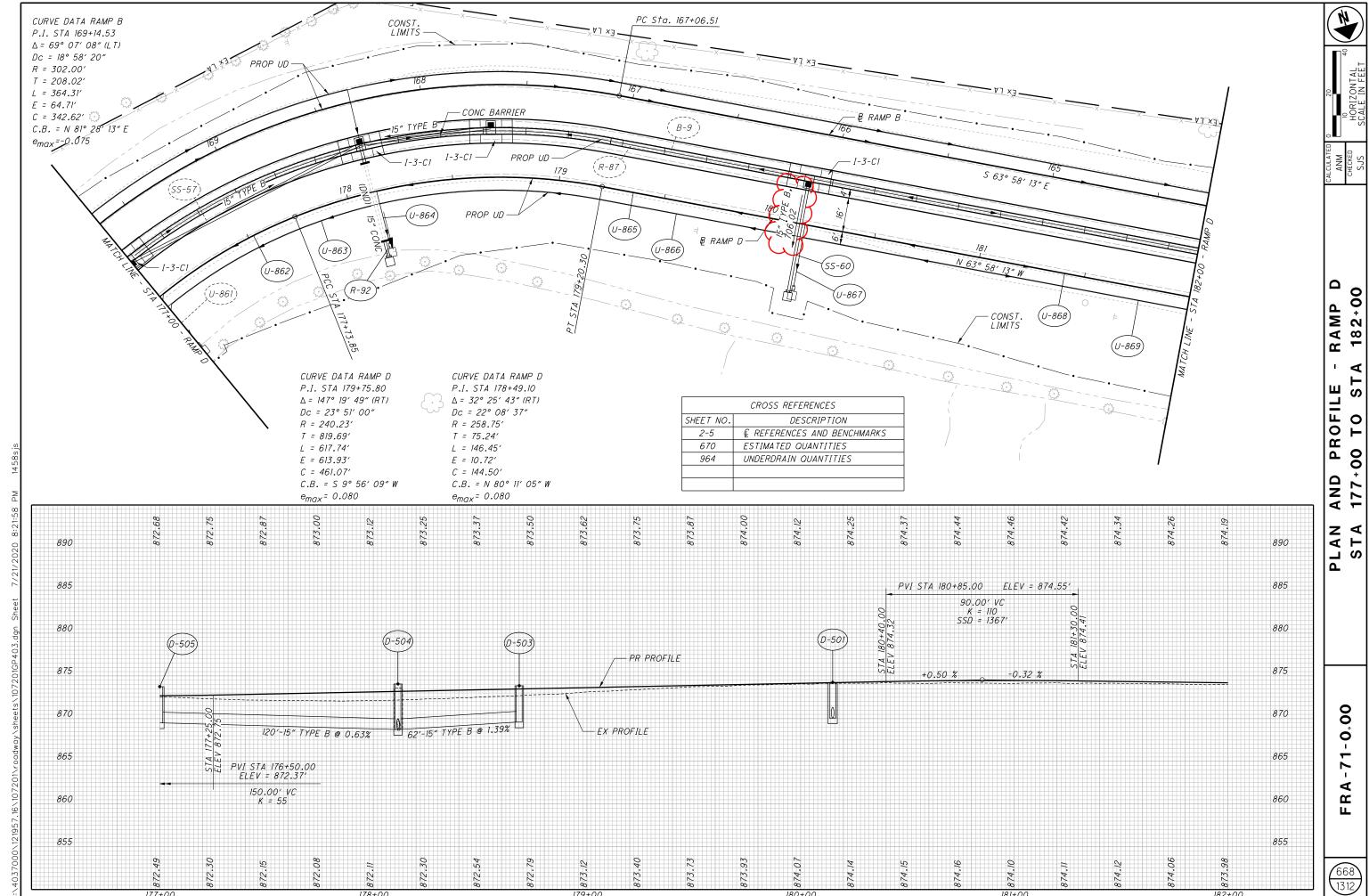


	Т			1	202	202		202		601	ı	602	606	611	611	611	622	622	622	622	626	
REF. NO.	SHEET NO.	STAT	FION	SIDE	v REMOVED	CONCRETE BARRIER REMOVED		IMPACT ATTENUATOR REMOVED		TIED CONCRETE BLOCK MAT,		CONCRETE MASONRY	IMPACT ATTENUATOR, TYPE 2 (BIDIRECTIONAL), 35 MPH, 36"	IS" CONDUIT, TYPE B	15" CONDUIT, TYPE B, 706.02	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE CI	CONCRETE BARRIER, SINGLE SLOPE, TYPE CI	CONCRETE BARRIER END SECTION, TYPE CI	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE CI	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE CI, AS PER PLAN	BARRIER REFLECTOR, TYPE 1,	CALCULAT D <u>CB</u>
	-	FROM	ТО	\dashv	SY	FT		EACH		SY		CY	EACH	FT	FT	EACH	FT	EACH	EACH	EACH	EACH	\dashv
R-86	648-650	165+08	177+92	RT	10	1217		1						>	-	K						7
B-8	648-650	165+28	177+53	RT									1	~~	-	3	808	1	11	2	25	_
SS-54 SS-55	648-649 649-650	166+80 172+61	169+70 174+09	RT RT						1.78 1.78		0.27 0.27	Y	(357	3						7
,3-33	043-030	112+01	114+03	N/						1.10		0.27										
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	TOTAL C CAL	RRIED TO SHEE	TC 300-402		10	1217	1	,	I	3.56		0.54	ı , <b>&gt;</b>	188	357	<b>人</b> 7	808	Ι,	11 11	2	25	13

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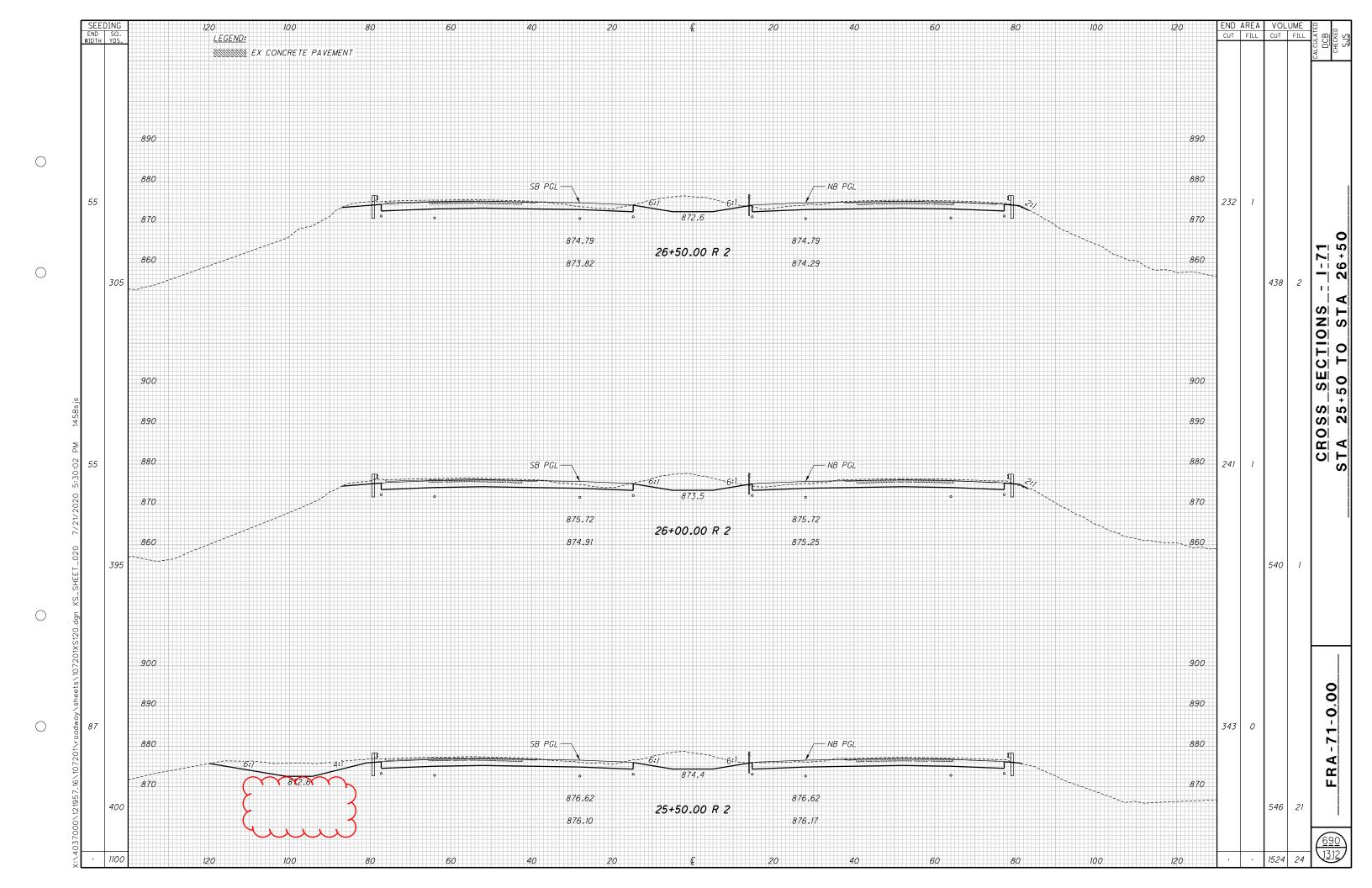






					202	202	202	202		601	601	602	>	611	611	611	611			$\Box$
REF.	SHEET NO.	STAT	TION	SIDE	HEADWALL REMOVED	GUTTER REMOVED	PIPE REMOVED, 24" AND UNDER	CATCH BASIN REMOVED		TIED CONCRETE BLOCK MAT, TYPE I	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	CONCRETE MASONRY		I5" CONDUIT, TYPE B, 706.02		30" CONDUIT, TYPE 4, GALVINIZED 707.01 AND 707.02 (0.188), ALUMINIZED 707.01 AND 707.02(0.064), 707.04(0.064), 707.05(0.064), 707.07(0.064) OR 707.25	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE CI			
		FROM	ТО		EACH	SY	FT	EACH		SY	CY	CY	>	FT	<u>)                                    </u>	FI	EACH			_
?-91 ?-92	667 668	174+64 178+12	174+64	LT/RT RT	2	5	69 11	1												+
-59	667	174+50	175+00	LT/RT							2.08	1.2				100				1
-60	668	180+15	110.00	LT/RT						1.78	2.00	0.27		53		100	1			1
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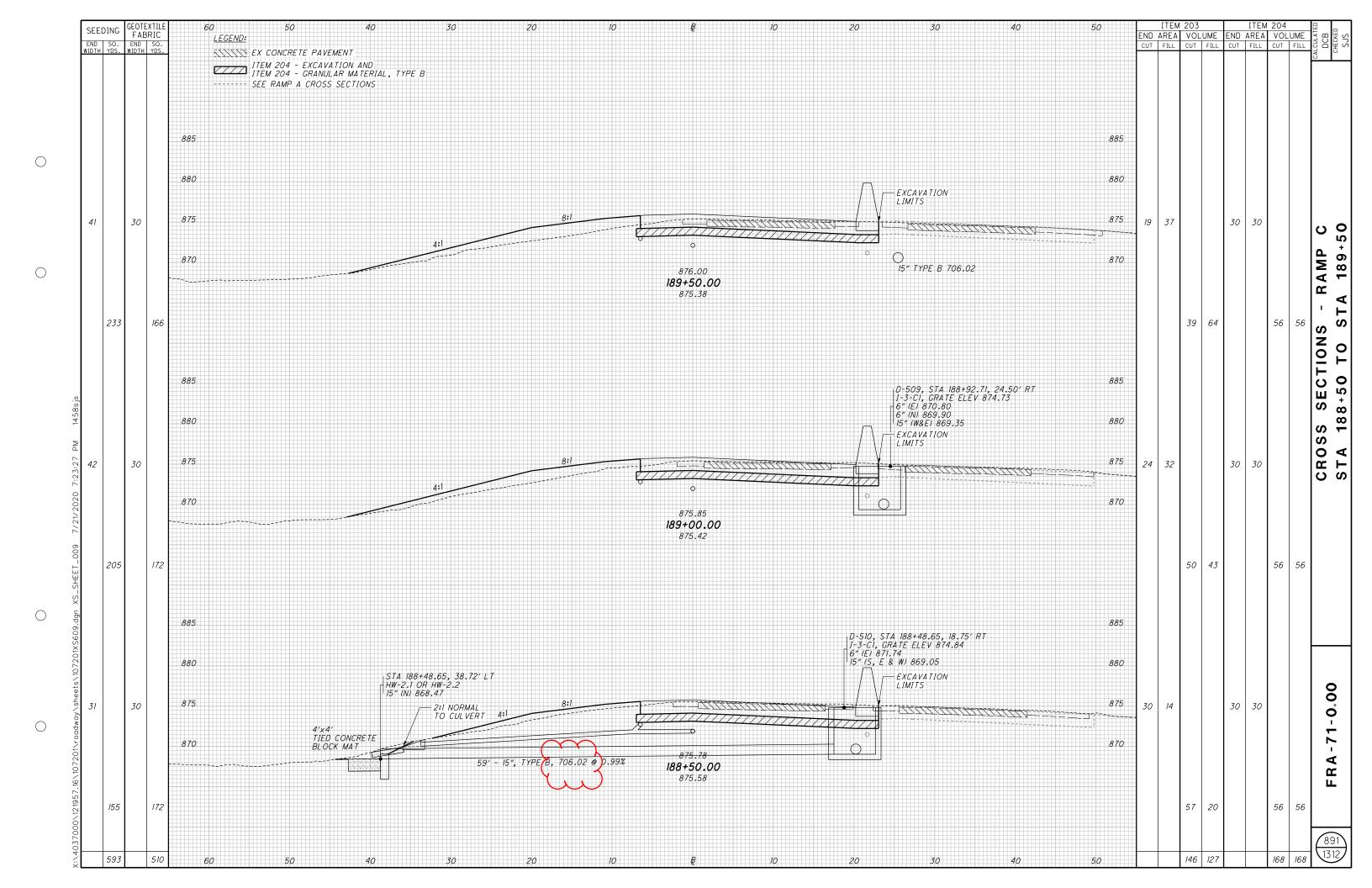
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EEDING GEOTEXTILE FABRIC  OTH YDS. WIDTH YDS.		0 40 30 20 10 & 10 20 30 40 50 <u>LEGEND:</u> <u>NYXYY</u> EX CONCRETE PAVEMENT	60	END ARE	A VOLUME L CUT FILL	END A	ITEM 2 AREA V FILL C	OLUME UT FILL	L'  '   Alculatee DCB
	885 880	ITEM 204 - EXCAVATION AND ITEM 204 - GRANULAR MATERIAL, TYPE B  SEE RAMP C CROSS SECTIONS  EXCAVATION LIMITS —	885						<u> </u>
7 27	875	4:1 8:1	8:/ 875	: ₇ 21 2		28	28		
	870	O 0 15" TYPE B 706.02	870						
105 150	865	874.42 167+50.00 874.42	865		38 5			51 51	
	885	0 500 CTA 160 100 70 24 504 DT	885						
	880	EXCAVATION   D-508, STA 166+80.39, 24.50' RT	880						PECT
27	875	4:1		:1 20 3		28	28		0
	870	0 15" TYPE"B, 706.02	870						100
100 150	865	874.57 167+00.00 874.51	865		39 3		į	51 51	
	885		885						
	880	EXCAVATION LIMITS —	880						
5 27	<u>87</u> 5	8:1	8:1 875	÷/ 22 0		28	28		
	870		870						
83 150	865	874.80 <b>166+50.00</b> 874.81	865		42 1			51 51	,
		874.81							

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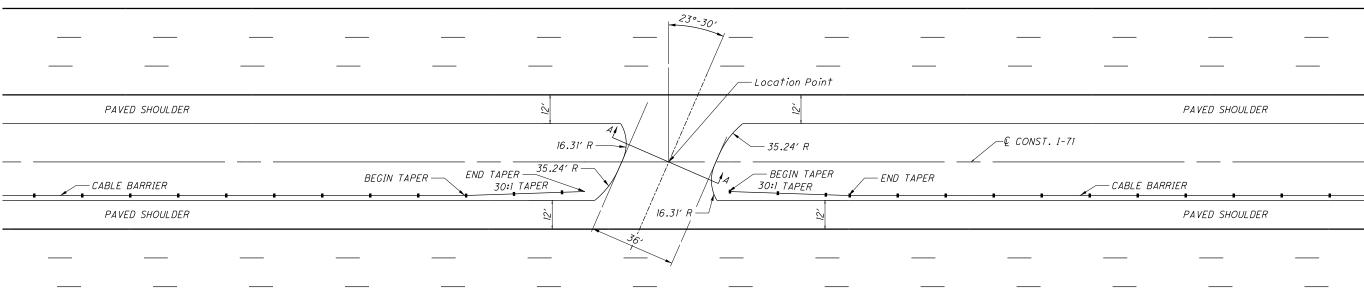
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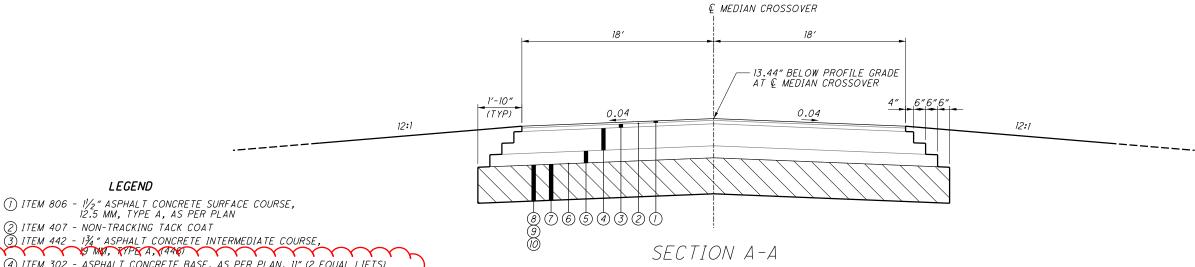
PAVED SHOULDER 230-30



BARRIER TAPER LOCATIONS BEGIN TAPER END TAPER

PAVED SHOULDER

## TYPICAL MEDIAN CROSSOVER DETAIL APPLIES: STA 13+75, 148+70 AND 201+40





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(2) ITEM 407 - NON-TRACKING TACK COAT

3) ITEM 442 - 134" ASPHALT CONCRETE INTERMEDIATE COURSE,

LEGEND

4 ITEM 302 - ASPHALT CONCRETE BASE, AS PER PLAN, 11" (2 EQUAL LIFTS) 5) INEM 304 - 6" ACCRECATE BASE

6) ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING (7) ITEM 206 - CEMENT STABILIZED SUBGRADE, 12" DEEP

8) ITEM 204 - EXCAVATION OF SUBGRADE, 12" DEEP 9 ITEM 204 - GEOTEXTILE FABRIC

NOTES: 1. SEE SHEET 7 FOR STATION RANGE OF WHEN EXCAVATION

OF SUBGRADE WITH GEOTEXTILE
FABRIC AND GRANULAR MATERIAL,
TYPE B ARE USED INSTEAD OF
CEMENT STABILIZED SUBGRADE.

(10) ITEM 204 - 12" GRANULAR MATERIAL, TYPE B

