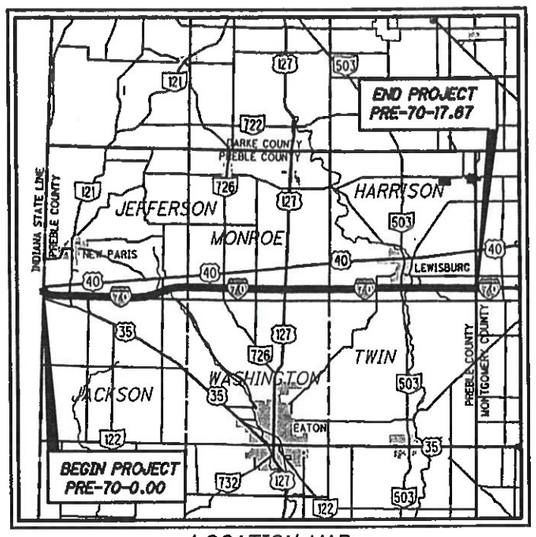
PRE - 70 - 0.00 Part 1&2
200043 PID - 96654
Dist 8 3/12/2020



LOCATION MAP

LATITUDE: 39°50'08" LONGITUDE: 84°38'59"

SCALE IN MILES

0 3 6 9 12

N

PORTION TO BE IMPROVED
INTERSTATE HIGHWAY
FEDERAL ROUTES
STATE ROUTES
COUNTY & TOWNSHIP ROADS
OTHER ROADS

STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

PRE-70-0.00

PART 1

JACKSON TOWNSHIP
JEFFERSON TOWNSHIP
MONROE TOWNSHIP
HARRISON TOWNSHIP

FOR PART 2, SEE PRE-35-1.95

INDEX OF SHEETS:

SHEETS NOT USED: 53, 63, 64, 65
ADDITIONAL SHEETS: 28A, 36A, 48A, 48B

DESIGN DESIGNATION

	I.R. 70 0.00-1.66	I.R. 70 1.66-9.91	I.R. 70 9.91-14.66	I.R. 70 14.66-17.67	S.R. 320	S.R. 726
CURRENT ADT (2020)	38000	32000	35000	38000	1300	1200
DESIGN YEAR ADT (2040)	54000	39000	42000	44000	1300	1300
DESIGN HOURLY VOLUME (2040)	4900	3500	3800	4400	120	160
DIRECTIONAL DISTRIBUTION	53%	52%	50%	52%	52%	55%
TRUCKS (24 HOUR B&C)	35%	37%	30%	31%	7%	7%
DESIGN SPEED	70MPH	70MPH	70MPH	70MPH	45MPH	55MPH
LEGAL SPEED	70MPH	70MPH	70MPH	70MPH	45MPH	55MPH

DESIGN FUNCTIONAL CLASSIFICATION:
I.R. 70 - 01 INTERSTATE (RURAL)
S.R. 320 - 05 MAJOR COLLECTOR (RURAL)
S.R. 726 - 05 MAJOR COLLECTOR (RURAL)
NHS PROJECT YES

DESIGN EXCEPTIONS

VERTICAL ALIGNMENT: STOPPING SIGHT DISTANCE — APPROVAL DATE 12/04/2018 — SHEET No. 40

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

PLAN PREPARED BY:
Stantec
11687 Lebanon Road
Cincinnati OH 45241
(513) 842-8200
CARPENTER MARTY transportation
6812 SINGLETREE DR. COLUMBUS, OH 43229
614.656.2424 * CARMAN.COM

ENGINEERS SEAL:
STATE OF OHIO — STEVEN N SHADIX E-63359 REGISTERED PROFESSIONAL ENGINEER
SIGNED: Steven N. Shadix
DATE: OCTOBER 28, 2019

ENGINEERS SEAL: SHEETS 118-126
STATE OF OHIO — SHANE THOMAS KALINOSKI 73569 REGISTERED PROFESSIONAL ENGINEER
SIGNED: Shane T. Kalinoski
DATE: OCTOBER 25, 2019

ENGINEERS SEAL: SHEETS 73-117, 127-147
STATE OF OHIO — MICHAEL R. STURDEVANT E-49864 REGISTERED PROFESSIONAL ENGINEER
SIGNED: Michael R. Sturdevant
DATE: OCTOBER 25, 2019

PROJECT DESCRIPTION

REPAIR AND RESURFACING OF ALL LANES, SHOULDERS, RAMPS AND MEDIAN CROSSOVERS ON I.R. 70 IN PREBLE COUNTY. THE PROJECT INCLUDES 22 BRIDGES THAT RECEIVE A RANGE OF WORK FROM SEALING TO DECK REPLACEMENT. THE EASTBOUND REST AREA IS ALSO INCLUDED FOR CONCRETE PAVEMENT REPAIR AND RESURFACING OF ASPHALT RAMPS. THE EASTBOUND WEIGH STATION ASPHALT PARKING AREA AND RAMPS ARE TO BE RESURFACED. REHABILIATION OF EXISTING LIGHTING SYSTEMS WEIGH STATION AND U.S. 127 INTERCHANGE. INSTALLATION OF PARTIAL INTERCHANGE LIGHTING AT U.S. 35 AND S.R. 503 INTERCHANGES. REMOVAL OF EXISTING PAVEMENT, LIGHTING AND OTHER APPURTENANCES IN THE FORMER WESTBOUND REST AREA.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	N/A*
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	N/A*
NOTICE OF INTENT EARTH DISTURBED AREA:	N/A*

* MAINTENANCE PROJECT

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.

2019 SPECIFICATIONS

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

PARTS 1 AND 2

STANDARD CONSTRUCTION DRAWINGS

BP-1.1	7/28/00	MGS-2.1	1/19/18	HL-30.21	1/17/14	MT-98.20	4/19/19	TC-22.10	10/18/13
BP-2.2	7/18/08	MGS-3.1	1/19/18	HL-30.22	1/17/14	MT-98.22	1/20/17	TC-41.20	10/18/13
BP-2.4	7/19/13	MGS-3.2	1/18/13	HL-40.10	1/20/17	MT-98.28	1/20/17	TC-41.30	10/18/13
BP-2.5	7/19/13	MGS-4.2	7/19/13	HL-50.21	1/18/19	MT-98.29	7/19/19	TC-41.50	10/18/13
BP-2.6	7/15/16	MGS-4.3	1/18/13	HL-60.11	7/21/17	MT-99.20	4/19/19	TC-42.20	10/18/13
BP-3.1	10/18/19	MGS-5.2	7/15/16	HL-60.21	7/20/18	MT-99.30	1/19/18	TC-52.10	10/18/13
BP-4.1	7/19/13	MGS-5.3	7/15/16	HL-60.31	1/18/19	MT-99.60	7/15/16	TC-52.20	7/20/18
BP-5.1	1/18/19	MGS-6.1	1/19/18	MT-95.30	7/19/19	MT-100.00	1/15/16	TC-61.30	7/19/19
BP-6.1	7/19/13	RM-4.2	10/24/19	MT-95.31	7/19/19	MT-101.60	1/20/17	TC-65.10	1/17/14
BP-9.1	1/18/19	AS-1-15	7/17/15	MT-95.40	1/20/17	MT-101.70	7/20/18	TC-65.11	7/21/17
DM-1.1	7/21/17	EXJ-4-87	1/19/18	MT-95.41	7/21/17	MT-101.75	7/15/16	TC-71.10	1/19/18
DM-1.2	1/18/13	SBR-1-13	7/20/18	MT-95.45	1/17/20	MT-101.90	7/21/17	TC-72.20	7/20/18
DM-4.2	7/20/12	HL-10.11	7/19/19	MT-95.50	7/21/17	MT-102.30	10/16/15	TC-73.20	7/21/17
DM-4.4	1/15/16	HL-10.12	1/20/17	MT-95.70	7/20/18	MT-103.10	1/19/18	TC-81.10	7/15/16
F-21	7/20/18	HL-10.13	7/20/18	MT-97.10	4/19/19	MT-104.10	10/16/15	TC-84.20	10/18/13
F-3.4	7/19/13	HL-20.11	4/21/17	MT-98.10	1/20/17	MT-105.10	7/19/13		
MGS-1.1	1/19/18	HL-30.11	7/19/19	MT-98.11	4/19/19	TC-21.20	7/20/18		

SUPPLEMENTAL SPECIFICATIONS

800	10/18/19
808	1/18/19
809	10/18/19
813	10/19/18
821	4/20/12
832	10/19/18
843	10/18/19
878	1/18/19
908	10/20/17
913	4/21/17
921	4/20/12

SPECIAL PROVISIONS

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT FOR THE FIVE LOCATIONS AS DESCRIBED ON SHEET 21 AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED Jamey K Cogswell
DATE 11/7/19 DISTRICT DEPUTY DIRECTOR

APPROVED
DATE 11/15/19 DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO. E150(996)
PID NO. 96654
CONSTRUCTION PROJECT NO.
RAILROAD INVOLVEMENT NONE

PRE-70-0.00 PART 1

1/147

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SCHEMATIC
PRE-70-2.59-3.13
REST AREA

SLM 2.400

REMOVAL WORK FOR WESTBOUND AREA

SLM 3.410

FORMER WESTBOUND
REST AREA

OH-Comb

OH-E

I.R. 70 WESTBOUND

I.R. 70 EASTBOUND

DO NOT DISTURB
ASPHALT PARKING LOT

SLM 2.434

SLM 2.590

SLM 3.133

SLM 3.367
EAST LIMIT OF
RAMP PAVING

AREAS TO BE PAVED

CONCRETE PAVEMENT JOINT REPAIR AREA FOR EASTBOUND REST AREA
SEE SHEET NOS. 47-48

HORIZONTAL
SCALE IN FEET
0 75 150 300

CALCULATED LBA
CHECKED PJD

SCHEMATIC
EASTBOUND REST AREA

PRE-70-0.00

7
147

Y:\I736\active\173620094\engineering\96654\ProjAdmin\PlanReviews\Tracings\Tracings- Revised Addendum 3 3.6.2020\96654_GP005.dgn 3/6/2020 4:29:12 PM pdurham

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, REPAIR SEEDING AND MULCHING
24713 SQ. YD. (S&M) x 0.05 = 1235.6 SQ. YD.
USE 1236 SQ. YD.

659, COMMERCIAL FERTILIZER
24713 / 7410 = 3.34 TON

659, LIME
24713 x 9 / 43560 = 5.11 ACRES

659, WATER
24713 x 2 x .0027 = 133.4 M. GAL
USE 134 M. GAL.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

ITEM 832 EROSION CONTROL

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR LOCATING, FURNISHING, INSTALLING AND MAINTAINING TEMPORARY SEDIMENT AND EROSION CONTROL FOR EARTH DISTURBED AREAS.

ITEM 832 EROSION CONTROL 5000 EACH

VERTICAL GRADE WARNING SIGNS

THE CONTRACTOR SHALL FURNISH AND INSTALL PERMANENT W7-6-36 "HILL BLOCKS VIEW" SIGNS WITH W13-1P-18 "ADVISORY SPEED PLAQUE" SIGNS ON SR 726 ON EITHER SIDE OF THE IR 70 OVERPASS BRIDGE TO WARN DRIVERS TO REDUCE SPEED APPROACHING THE CREST VERTICAL CURVE ON THE BRIDGE. THE ADVISORY SPEED TO BE LISTED ON THE W13-1P-18 SIGNS SHALL BE 45 MPH. THESE SIGNS SHOULD BE LOCATED AT APPROXIMATELY STA 6+00 AND STA 14+00.

SEE SHEET NO. 38 FOR QUANTITIES

COORDINATION BETWEEN CONTRACTORS

THE CONSTRUCTION AT PRE-70-0.00 MAY REQUIRE THE CONTRACTOR TO COORDINATE WITH THE ADJACENT PREBLE COUNTY CULVERT PROJECTS (PID 106504 AND PID 105967) AND PRE-35-1.76 (PID 100807).

COOPERATION WITH THE ENGINEER, INSPECTORS, AND ALL OTHER CONTRACTORS ON OR ADJACENT TO THE PROJECT IS REQUIRED, AS PER CMS 105.08.

ASBESTOS NOTIFICATION

SHOULD THE CONTRACTOR ENCOUNTER ASBESTOS CONTAINING MATERIALS (ACM) ON THE EXISTING STRUCTURES, THE HANDLING AND DISPOSAL OF SAID ACM WILL BE COVERED UNDER CMS ITEM 202 WITH PAYMENT IN ACCORDANCE WITH CMS 109.05.

A WEBLINK TO THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) NOTIFICATION OF DEMOLITION AND RENOVATION FORM, WILL BE PROVIDED TO THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING. ODOT WILL SUPPLY THE INFORMATION FOR SECTIONS I-VII AND XVII-XVIII OF THE FORM. THE CONTRACTOR WILL COMPLETE THE ONLINE FORMS AND SUBMIT THEM TO THE SOUTHWEST OEPA DISTRICT OFFICE (OEPA-SWDO) AT LEAST 10 DAYS PRIOR TO DEMOLITION/RENOVATION ACTIVITIES. THE COSTS ASSOCIATED WITH ASBESTOS NOTIFICATION SHALL BE INCIDENTAL TO ITEM 202, PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN.

IN THE EVENT THAT THE CONTRACTOR, OR THE ASSOCIATED SUB-CONTRACTORS, ENCOUNTER ANY MATERIAL SUSPECTED OF CONTAINING ACM, DEMOLITION ACTIVITIES SHALL CEASE AND THE SUSPECT AREAS WETTED. THE CONTRACTOR SHALL THEN NOTIFY THE PROJECT ENGINEER, OEPA-SWDO AND THE ODOT DISTRICT 08 CERTIFIED ASBESTOS HAZARD EVALUATION SPECIALIST (CAHES) (KEITH SMITH, (513) 933-6590).

ASBESTOS ABATEMENT

IN THE EVENT THAT ACM IS ENCOUNTERED, THE CONTRACTOR SHALL TAKE WHATEVER PRECAUTIONS ARE POSSIBLE TO ENSURE THAT THE ACM DOES NOT BECOME FRIABLE. TO ENSURE THAT THE NONFRIABLE ACM DOES NOT BECOME FRIABLE, OR IN THE EVENT THAT THE NONFRIABLE MATERIALS BECOME FRIABLE, THE CONTRACTOR SHALL PROVIDE AN INDIVIDUAL TRAINED IN THE PROVISIONS OF THE NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP) TO BE LOCATED ON-SITE DURING DEMOLITION AND/OR REMOVAL OF THE ACM. ALL ACM SHALL BE PROPERLY CONTAINERIZED, TRANSPORTED AND DISPOSED OF IN ACCORDANCE WITH THE ASSOCIATED STATE AND FEDERAL REGULATIONS.

THE CONTRACTOR SHALL FURNISH ALL THE LABOR (INCLUDING A CAHES), EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE, SUBMIT AND COMPLY WITH THE OEPA NOTIFICATION FOR, AND TO REMOVE, TRANSPORT AND DISPOSE OF ACM IN A LICENSED (BY THE LOCAL HEALTH DEPARTMENT) AND PERMITTED (BY THE OEPA) SOLID WASTE FACILITY.

NON-USE OF ASBESTOS-CONTAINING MATERIALS

THE CONTRACTOR SHALL AT NO TIME INCORPORATE ANY MATERIALS WHICH ARE COMPOSED OF OR CONTAIN ANY AMOUNTS OF ASBESTOS. THE SUBSTITUTION OF MATERIALS WHICH CONTAIN ANY AMOUNTS OF ASBESTOS WILL IN NO CIRCUMSTANCES BE ACCEPTABLE. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF CERTIFICATION ASSERTING THAT NO ASBESTOS CONTAINING MATERIALS WERE USED IN ANY PORTION OF THE CONSTRUCTION.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE TABLE ON THIS SHEET CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD:	ODOT VRS
MONUMENT TYPE:	AS NOTED IN PROJECT CONTROL TABLE BELOW

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM:	NAVD 88
GEOID:	12B

HORIZONTAL POSITIONING

REFERENCE FRAME:	NAD 83 (2011)
ELLIPSOID:	GRS 80
MAP PROJECTION:	LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM:	OHIO STATE PLANE (SOUTH ZONE)
COMBINED SCALE FACTOR:	1.000000000
ORIGIN OF COORDINATE SYSTEM:	0,0

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

LOCATION	203 EXCAVATION (CY)	203 EMBANKMENT (CY)	204 EXCAVATION OF SUBGRADE (CY)	204 GRANULAR MATERIAL, TYPE C (CY)	204 GEOTEXTILE FABRIC (AREA IS EQUAL TO SUBGRADE COMPACTION FROM PAVEMENT CALCS) (SY)	659 SEEDING AND MULCHING (SY)
SR 320	325	20	223	223	825	556
SR 726	455	19	443	443	1167	668
SR 320 STA 20+20.19 DRIVE LT	12	1				
SR 320 STA 24+66.22 DRIVE LT	10	2				
SR 320 STA 24+66.55 DRIVE RT	22	2				
FROM SHEET NO. 50 (LIGHTING)						10860
TOTALS CARRIED TO GENERAL SUMMARY	824	44	666	666	1992	12084

PROJECT CONTROL

PRE-70-0.00 Stantec Job#173620094

CONTROL POINT COORDINATES SUPPLIED BY ODOT

CONTROL FOR SR 320	Grid North	Grid East	Mon. Type	Elevation
SA1	674213.325	1324465.674	IPINS STA 22+71.20, 55.65 RT	1161.780
SA3	673998.722	1324443.235	MAGS STA 20+56.92, 16.89 RT	1183.520
VA2	674366.551	1324422.490	IPINS STA 24+27.06, 16.93 RT	1178.110

CONTROL FOR SR 726	Grid North	Grid East	TYPE	ELEVATION
SE2	675692.327	1357319.406	MAGS STA 7+93.86, 13.71 RT	1138.066
VE1	675186.493	1357277.530	MAGS STA 2+87.31, 18.30 LT	1118.836

CALCULATED JTK CHECKED PJD

GENERAL NOTES

PRE-70-0.00

SEQUENCE OF CONSTRUCTION

THE SEQUENCE OF CONSTRUCTION OUTLINED BELOW IS INTENDED TO GUIDE THE WORK IN A MANNER THAT PROVIDES A BASIC LEVEL OF SERVICE TO ALL MOTORISTS. ALTHOUGH THIS SEQUENCE OF CONSTRUCTION LISTS TASKS IN A SPECIFIC ORDER, NOT EVERY ITEM LISTED MUST BE COMPLETED BEFORE COMMENCING THE NEXT ITEM, AND SOME TASKS MAY BE PERFORMED CONCURRENTLY.

PHASE 1, TASK 1: MAJOR BRIDGE REHABILITATION OF PRE-320-0117

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD OF TIME AS DESCRIBED ON SHEET 24 WHEN TRAFFIC MAY BE DETOURED. THE DETOUR AND DETOUR SIGNING ARE SHOWN ON SHEET 26. ACCESS TO ALL DRIVES SHALL BE MAINTAINED AT ALL TIMES, INCLUDING DURING THE CLOSURE. FALSEWORK WILL BE REQUIRED ON THE BRIDGE DURING CONSTRUCTION AND SHOULD BE INSTALLED PRIOR TO ANY BRIDGE WORK. THE FALSEWORK CAN BE INSTALLED, AND SUBSUEQUENTLY REMOVED, USING SINGLE LANE CLOSURES ON I.R. 70 AT PERMISSIBLE TIMES AS SHOWN ON SHEET 24. LANE CLOSURES ON I.R. 70 SHOULD BE INSTALLED ACCORDING TO STANDARD CONSTRUCTION DRAWING (SCD) MT-95.30.

PHASE 1, TASK 2: MAJOR BRIDGE REHABILITATION OF PRE-726-0428

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD OF TIME AS DESCRIBED ON SHEET 24 WHEN TRAFFIC MAY BE DETOURED. THE DETOUR AND DETOUR SIGNING ARE SHOWN ON SHEET 27. ACCESS TO ALL DRIVES SHALL BE MAINTAINED AT ALL TIMES, INCLUDING DURING THE CLOSURE. FALSEWORK WILL BE REQUIRED ON THE BRIDGE DURING CONSTRUCTION AND SHOULD BE INSTALLED PRIOR TO ANY BRIDGE WORK. THE FALSEWORK CAN BE INSTALLED, AND SUBSEQUENTLY REMOVED, USING SINGLE LANE CLOSURES ON I.R. 70 AT PERMISSIBLE TIMES AS SHOWN ON SHEET 24. LANE CLOSURES ON I.R. 70 SHOULD BE INSTALLED ACCORDING TO SCD MT-95.30.

PHASE 1, TASK 3: BRIDGE PARAPET REPAIR ON PRE-70-0632

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION ON PENCE SHEWMAN ROAD SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD OF TIME AS DESCRIBED ON SHEET 24 WHEN TRAFFIC MAY BE DETOURED. THE DETOUR AND DETOUR SIGNING ARE SHOWN ON SHEET 28. ACCESS TO ALL DRIVES SHALL BE MAINTAINED AT ALL TIMES, INCLUDING DURING THE CLOSURE. FALSEWORK WILL BE REQUIRED ON THE BRIDGE DURING CONSTRUCTION AND SHOULD BE INSTALLED PRIOR TO ANY BRIDGE WORK. THE FALSEWORK CAN BE INSTALLED, AND SUBSEQUENTLY REMOVED, USING SINGLE LANE CLOSURES ON I.R. 70 AT PERMISSIBLE TIMES AS SHOWN ON SHEET 24. LANE CLOSURES ON I.R. 70 SHOULD BE INSTALLED ACCORDING TO STANDARD CONSTRUCTION DRAWING (SCD) MT-95.30.

THE DETOUR PLAN FOR THIS WORK UTILIZES S.R. 726. THEREFORE, TASK 2 AND TASK 3 SHALL NOT BE CONSTRUCTED CONCURRENTLY. ONLY ONE DETOUR MAY BE IN PLACE AT A TIME.

SEQUENCE OF CONSTRUCTION (CONTINUED)

PHASE 1, TASK 4: BRIDGE PARAPET REPAIR ON PRE-70-1541

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION ON LEWISBURG ROAD SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD OF TIME AS DESCRIBED ON SHEET 24 WHEN TRAFFIC MAY BE DETOURED. THE DETOUR AND DETOUR SIGNING ARE SHOWN ON SHEET 28A. FALSEWORK WILL BE REQUIRED ON THE BRIDGE DURING CONSTRUCTION AND SHOULD BE INSTALLED PRIOR TO ANY BRIDGE WORK. THE FALSEWORK CAN BE INSTALLED, AND SUBSEQUENTLY REMOVED, USING SINGLE LANE CLOSURES ON I.R. 70 AT PERMISSIBLE TIMES AS SHOWN ON SHEET 24. LANE CLOSURES ON I.R. 70 SHOULD BE INSTALLED ACCORDING TO SCD MT-95.30.

PHASE 2, TASK 1: MINOR BRIDGE REHABILITATION ON THE REMAINING STRUCTURES AS DETAILED IN THE PLANS.

REHABILITATION OF THE FOLLOWING BRIDGES AS DETAILED IN THE PLANS SHOULD NOT REQUIRE ANY LANE OR SHOULDER CLOSURES OR RESTRICTIONS. ALTHOUGH NONE ARE ANTICIPATED, ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED ACCORDING TO AND WHEN REQUIRED BY THE OMUTCD AND SCDs.

PRE-70-358
PRE-70-0489
PRE-70-0632
PRE-70-1366
PRE-503-1955
PRE-70-1665
PRE-70-1766

NIGHTTIME LANE CLOSURES WILL BE REQUIRED TO PERFORM BRIDGE REHABILITATION ON THE FOLLOWING STRUCTURES.

PRE-70-0504 L/R
PRE-70-0689 L/R
PRE-70-1072 L/R
PRE-70-1249 L/R
PRE-70-1349 L/R
PRE-70-1500 L/R

THE HOURS OF SUCH CLOSURES ARE SUBJECT TO THE PERMITTED LANE CLOSURE SCHEDULE AND LANE VALUE CONTRACT TABLE SHOWN IN THE PLANS. LANES SHOULD BE CLOSED AS OUTLINED ON SCD MT-95.30, CLOSING RIGHT OR LEFT LANE OF A MULTI-LANE DIVIDED HIGHWAY WITH DRUMS. SOME BRIDGES ARE LOCATED NEAR ENTRANCE AND EXIT RAMPS AND WILL ALSO REQUIRE SCDS MT-98.10 LANE CLOSURE AT ENTRANCE RAMP AND MT-98.20 LANE CLOSURE AT EXIT RAMP USING DRUMS. ONE LANE IN EACH DIRECTION MUST REMAIN OPEN TO TRAFFIC AT ALL TIMES.

PARAPET REPAIR ON PRE-70-1541 WILL REQUIRE ADDITIONAL MAINTENANCE OF TRAFFIC ON C.R. 34 (LEWISBURG RD). REPAIRS SHOULD NOT BE MADE ABOVE LIVE TRAFFIC ON I.R. 70. WORK MAY ONLY BE COMPLETED OVER ONE LANE AT A TIME, WHILE CLOSED, TO PREVENT DEBRIS FROM FALLING ONTO MOTORISTS. ALTERNATIVELY, AT THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY CHOOSE TO PROTECT I.R. 70 MOTORISTS BY INSTALLING A CATCHMENT SYSTEM ON THE BRIDGE TO PREVENT DEBRIS FROM FALLING ON THE HIGHWAY BELOW. A FLAGGER SHOULD BE USED TO MAINTAIN ONE LANE OF TRAFFIC ON C.R. 34 DURING PARAPET REPAIR. USE SCD MT-97.10 FLAGGER CLOSING 1 LANE OF A 2-LANE HIGHWAY - STATIONARY OPERATION.

SEQUENCE OF CONSTRUCTION (CONTINUED)

PHASE 2, TASK 2: LIGHTING INSTALLATIONS

IT IS ANTICIPATED THAT ALL WORK RELATED TO LIGHTING CAN BE COMPLETED WITHOUT LANE RESTRICTIONS ON ANY ROAD. ALL LIGHTING WORK, WITH THE EXCEPTION OF LUMINAIRE REPLACEMENTS, ARE OUTSIDE OF THE EXISTING SHOULDERS OF ALL ROUTES. USE SCD MT-95.45 CLOSING RIGHT OF LEFT SHOULDER OF A MULTILANE DIVIDED HIGHWAY TO CLOSE SHOULDERS AS NECESSARY. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED ACCORDING TO AND WHEN REQUIRED BY THE OMUTCD AND SCDs.

PHASE 2, TASK 3: MILLING AND FILLING OF WEIGH STATION PAVEMENT

THIS WORK SHALL CONSIST OF MILLING AND FILLING PAVEMENT WITHIN THE LIMITS OF THE WEIGH STATION. THE WEIGH STATION MAY BE CLOSED FOR A PERIOD NOT TO EXCEED THE NUMBER OF CONSECUTIVE CALENDAR DAYS SHOWN ON SHEET 24. CLOSURE OF THE WEIGH STATION SHALL BE PERFORMED AS OUTLINED ON SHEET NO. 29. A NOTICE OF CLOSURE SIGN SHALL BE INSTALLED PRIOR TO THE RAMP CLOSURE AS NOTED ON SHEET 21. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE BEFORE THE WEIGH STATION IS OPENED TO TRAFFIC.

PHASE 2, TASK 4: PAVEMENT REPAIR IN REST AREA

THIS WORK SHALL CONSIST OF CONCRETE PAVEMENT REPAIR ON THE RAMPS AND TRUCK PARKING AREAS WITHIN THE EASTBOUND REST AREA. THE REST AREA MAY BE CLOSED FOR A PERIOD NOT TO EXCEED THE NUMBER OF CONSECUTIVE CALENDAR DAYS SHOWN ON SHEET 24 IN ORDER TO COMPLETE THIS WORK. CLOSURE OF THE REST AREA SHALL BE COMPLETE AS OUTLINED ON SHEET NO. 30. A NOTICE OF CLOSURE SIGN SHALL BE INSTALLED PRIOR TO THE RAMP CLOSURE AS NOTED ON SHEET 21. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE BEFORE THE REST AREA IS OPENED TO TRAFFIC.

PHASE 3, TASK 1: WESTBOUND REST AREA

THE CONTRACTOR SHALL CLOSE THE SHOULDER OF WESTBOUND I.R. 70 AS NECESSARY TO PERFORM THE WORK. THE SHOULDER SHALL BE CLOSED ACCORDING TO SCD MT-95.45 CLOSING SHOULDER OF A MULTI-LANE DIVIDED HIGHWAY.

PHASE 3, TASK 2: PAVEMENT REPAIR ALONG IR 70 AND RAMPS

NIGHTLY LANE CLOSURES WILL BE REQUIRED TO PERFORM PAVEMENT REPAIRS ALONG MAINLINE I.R. 70. THE HOURS OF SUCH CLOSURES ARE SUBJECT TO THE PERMITTED LANE CLOSURE SCHEDULE AND LANE VALUE CONTRACT TABLE SHOWN IN THE PLANS. LANES SHOULD BE CLOSED AS OUTLINED ON SCD MT-95.30, CLOSING RIGHT OR LEFT LANE OF A MULTI-LANE DIVIDED HIGHWAY WITH DRUMS. SOME PAVEMENT REPAIRS ARE LOCATED NEAR ENTRANCE AND EXIT RAMPS AND WILL REQUIRE SCDS MT-98.10 LANE CLOSURE AT ENTRANCE RAMP AND MT-98.20 LANE CLOSURE AT EXIT RAMP USING DRUMS. ONE LANE IN EACH DIRECTION MUST REMAIN OPEN TO TRAFFIC AT ALL TIMES.

SEQUENCE OF CONSTRUCTION (CONTINUED)

PHASE 3, TASK 3: MILLING PAVEMENT AND PLACING INTERMEDIATE COURSE

THIS WORK SHALL CONSIST OF MILLING THE EXISTING ASPHALT SURFACE AND PLACING A NEW INTERMEDIATE COURSE ON I.R. 70 AS INDICATED IN THE PLANS. PAVEMENT REPAIRS SHALL BE COMPLETED PRIOR TO PLACING THE NEW PAVEMENT. A MINIMUM OF ONE LANE OF TRAFFIC SHALL BE MAINTAINED ON I.R. 70 IN EACH DIRECTION AT ALL TIMES, INCLUDING RAMPS. LANE CLOSURES SHOULD BE PERFORMED AS OUTLINED IN SCD MT-95.30 CLOSING RIGHT OR LEFT LANE OF A MULTI-LANE DIVIDED HIGHWAY WITH DRUMS. PAVING WORK IN THE VICINITY OF RAMPS SHALL ALSO BE ACCORDING TO SCDS MT-98.10 LANE CLOSURE AT ENTRANCE RAMP, MT-98.11 LANE CLOSURE AT ENTRANCE RAMP ACCELERATION LANE, MT-98.20 LANE CLOSURE AT EXIT RAMP USING DRUMS, MT-98.22 LANE CLOSURE IN DECELERATION LANE, AND MT-98.28 LANE CLOSURE WITHIN EXIT RAMP. INSTALL TEMPORARY PAVEMENT MARKINGS PRIOR TO OPENING ANY PAVED SECTION TO TRAFFIC.

A MINIMUM OF ONE 10' LANE SHALL BE MAINTAINED ON ALL RAMPS DURING MILLING AND PAVING OPERATIONS. HALF OF EACH RAMP SHOULD BE CLOSED AT A TIME AS OUTLINED ON SCD MT-98.28 LANE CLOSURE WITHIN EXIT RAMP. TEMPORARY PAVEMENT MARKINGS SHOULD BE PERFORMED AS OUTLINED IN SCD MT-99.20 TRAFFIC CONTROL FOR LONG LINE PAVEMENT MARKING OPERATIONS.

PHASE 4: PLACING FINAL SURFACE COURSE ON IR 70

THIS WORK SHALL CONSIST OF PAVING THE FINAL SURFACE COURSE ON IR 70, INCLUDING RAMPS, AS INDICATED IN THE PLANS. LANE CLOSURES FOR PAVING SHALL BE IN ACCORDANCE WITH THE PERMITTED LANE CLOSURE SCHEDULE AND LAE VALUE CONTRACT TABLE SHOWN IN THE PLANS. A MINIMUM OF ONE LANE OF TRAFFIC SHALL BE MAINTAINED ON IR 70 IN EACH DIRECTION AT ALL TIMES, INCLUDING RAMPS. LANE CLOSURES SHOULD BE PERFORMED AS OUTLINED IN SCD MT-95.30 CLOSING RIGHT OR LEFT LANE OF A MULTI-LANE DIVIDED HIGHWAY WITH DRUMS. PAVING WORK IN THE VICINITY OF RAMPS SHALL ALSO BE ACCORDING TO SCDS MT-98.10 LANE CLOSURE AT ENTRANCE RAMP, MT-98.11 LANE CLOSURE AT ENTRANCE RAMP ACCELERATION LANE, MT-98.20 LANE CLOSURE AT EXIST RAMP USING DRUMS, MT-98.22 LANE CLOSURE IN DECELERATION LANE, AND MT-98.28 LANE CLOSURE WITHIN EXIT RAMP. INSTALL PERMANENT PAVEMENT MARKINGS PRIOR TO OPENING ANY PAVED SECTION TO TRAFFIC.

A MINIMUM OF ONE 10' LANE SHALL BE MAINTAINED ON ALL RAMPS DURING PAVING OPERATIONS. HALF OF EACH RAMP SHOULD BE CLOSED AT A TIME AS OUTLINED ON SCD MT-98.28 LANE CLOSURE WITHIN EXIT RAMP. PERMANENT PAVEMENT MARKINGS SHOULD BE PERFORMED AS OUTLINED IN SCD MT-99.20 TRAFFIC CONTROL FOR LONG LINE PAVEMENT MARKING OPERATIONS.

CALCULATED PJD CHECKED SNS

MAINTENANCE OF TRAFFIC NOTES

PRE-70-0.00

SHEET NUM.										PART.				ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
16	17	19	20	35	36A	48				01/IMS/PV	02/IMS/BR	03/IMS/PV	05/STR/PV						
																		ROADWAY	
	LS									LS				201	11000	LS		CLEARING AND GRUBBING	
					3,688							3,688		202	23000	3,688	SY	PAVEMENT REMOVED	
				8,799	3,882					8,799		3,882		202	23010	12,681	SY	PAVEMENT REMOVED, ASPHALT	
					472							472		202	32000	472	FT	CURB REMOVED	
					76							76		202	35100	76	FT	PIPE REMOVED, 24" AND UNDER	
				19,109						19,109				202	38000	19,109	FT	GUARDRAIL REMOVED	
				46						46				202	42010	46	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E	
				14						14				202	42040	14	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T	
				12						12				202	42050	12	EACH	ANCHOR ASSEMBLY REMOVED, TYPE B	
				63						63				202	47000	63	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED	
					1							1		202	58100	1	EACH	CATCH BASIN REMOVED	
					2							2		202	58200	2	EACH	INLET REMOVED	
					1							1		202	58400	1	EACH	INLET ABANDONED	
		824			95					824		95		203	10000	919	CY	EXCAVATION	
		44								44				203	20000	44	CY	EMBANKMENT	
1,992										1,992				204	10000	1,992	SY	SUBGRADE COMPACTION	
		666								666				204	13000	666	CY	EXCAVATION OF SUBGRADE	
		666								666				204	30020	666	CY	GRANULAR MATERIAL, TYPE C	
1										1				204	45000	1	HOUR	PROOF ROLLING	
		1,992								1,992				204	50000	1,992	SY	GEOTEXTILE FABRIC	
				227						227				209	15000	227	STA	RESHAPING UNDER GUARDRAIL	
				734						734				209	70000	734	CY	BORROW	
				15,250						15,250				606	15050	15,250	FT	GUARDRAIL, TYPE MGS	
				4,213						4,213				606	15100	4,213	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS	
				12						12				606	26050	12	EACH	ANCHOR ASSEMBLY, MGS TYPE B	
				46						46				606	26150	46	EACH	ANCHOR ASSEMBLY, MGS TYPE E, (MASH 2016)	
				14						14				606	26550	14	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
				59						59				606	35002	59	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
				4						4				606	35102	4	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
				5						5				SPECIAL	69050100	5	EACH	MAILBOX SUPPORT SYSTEM, SINGLE	18
			LS							LS				SPECIAL	69098400	LS		CONSULTANT FOR CONCRETE QUALITY CONTROL/INCLUDING TESTING AND INSPECTION	20
																		EROSION CONTROL	
					1,261							1,261		659	00300	1,261	CY	TOPSOIL	
		12,084		12,629	11,355					24,713		11,355		659	10000	36,068	SY	SEEDING AND MULCHING	
		1,236								1,236				659	14000	1,236	SY	REPAIR SEEDING AND MULCHING	
		3.34			1.54					3.34		1.54		659	20000	4.88	TON	COMMERCIAL FERTILIZER	
		5.11			2.35					5.11		2.35		659	31000	7.46	ACRE	LIME	
		134			62					134		62		659	35000	196	MGAL	WATER	
					4,861							4,861		670	00500	4,861	SY	SLOPE EROSION PROTECTION	
		5,000			10,000					5,000		10,000		832	30000	15,000	EACH	EROSION CONTROL	
					LS							LS		832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
					LS							LS		832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
					LS							LS		832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
																		PAVEMENT	
	5,000									5,000				253	01000	5,000	SY	PAVEMENT REPAIR	
2,811										2,811				253	02000	2,811	CY	PAVEMENT REPAIR	
888,996										884,678			4,318	254	01000	888,996	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 3 1/4"	
8,890										8,847			43	254	01600	8,890	SY	PATCHING PLANED SURFACE	
						566						566		255	10160	566	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS	
						852						852		255	20000	852	FT	FULL DEPTH PAVEMENT SAWING	
						2,452						2,452		256	10000	2,452	SF	BONDED PATCHING OF PORTLAND CEMENT CONCRETE PAVEMENT, TYPE A	
						1,270						1,270		258	10000	1,270	EACH	RETROFIT DOWEL BAR	
374										374				301	46000	374	CY	ASPHALT CONCRETE BASE, PG64-22	
354										354				304	20000	354	CY	AGGREGATE BASE	
242										242				407	10000	242	GAL	TACK COAT	
124,460										123,855			605	407	20000	124,460	GAL	NON-TRACKING TACK COAT	
51										51				441	50000	51	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	

CALCULATED LBA
CHECKED SNS

GENERAL SUMMARY

PRE-70-0.00

SHEET NUM.										PART.				ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
18	35	37	36A	38	49	57				01/IMS/PV	02/IMS/BR	03/IMS/PV	05/STR/PV						
																		PAVEMENT CONTINUED	
										72				441	50300	72	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	
										13				441	50400	13	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), (DRIVEWAYS)	
										47,814			233	442	00100	48,047	CY	ANTI-SEGREGATION EQUIPMENT	
										42,809			210	442	10101	43,019	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN, PG64-28	17
										36,652			180	442	10300	36,832	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447)	
										211				442	20000	211	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448)	
										246				442	20201	246	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448), AS PER PLAN, PG64-28	17
	736									736				609	24510	736	FT	CURB, TYPE 4-C	
										70				618	40600	70	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	
																		LIGHTING	
						118				118				625	00450	118	EACH	CONNECTION, FUSED PULL APART	
						20				20				625	00451	20	EACH	CONNECTION, FUSED PULL APART, AS PER PLAN	50
						99				99				625	00480	99	EACH	CONNECTION, UNFUSED PERMANENT	
						42				42				625	10490	42	EACH	LIGHT POLE, CONVENTIONAL, AT20B40	
						42				42				625	14100	42	EACH	LIGHT POLE FOUNDATION, 24" X 8' DEEP	
						17				17				625	18400	17	EACH	BRACKET ARM, 20'	
						7,053				7,053				625	23200	7,053	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	
						10,725				10,725				625	23302	10,725	FT	NO. 6 AWG 2400 VOLT DISTRIBUTION CABLE	
						9,036				9,036				625	23400	9,036	FT	NO. 10 AWG POLE AND BRACKET CABLE	
						19,404				19,404				625	24320	19,404	FT	1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES	
						708				708				625	24324	708	FT	1-1/2" DUCT CABLE WITH THREE NO. 6 AWG 2400 VOLT CABLES	
						160				160				625	25500	160	FT	CONDUIT, 3", 725.04	
						1,926				1,926				625	25902	1,926	FT	CONDUIT, JACKED OR DRILLED, 725.04, 3"	
						67				67				625	26253	67	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, TES-M-M, LED, 8200-11600 LUMENS	49
						2				2				625	26273	2	EACH	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, TES-V-M, LED, 33400-42000 LUMENS	49
						19,552				19,552				625	29000	19,552	FT	TRENCH	
						32				32				625	30700	32	EACH	PULL BOX, 725.08, 18"	
			11			6				6		11		625	31510	17	EACH	PULL BOX REMOVED	
						59				59				625	32000	59	EACH	GROUND ROD	
						5				5				625	34001	5	EACH	POWER SERVICE, AS PER PLAN	49
						19,552				19,552				625	36000	19,552	FT	PLASTIC CAUTION TAPE	
					LS					LS				SPECIAL	62540000	LS		MAINTAIN EXISTING LIGHTING	49
					2					2				SPECIAL	62540010	2	EACH	REPLACEMENT OF EXISTING LIGHTING UNIT	49
						16				16				625	75350	16	EACH	LIGHT TOWER REMOVED	
			9									9		625	75351	9	EACH	LIGHT TOWER REMOVED, AS PER PLAN	36A
			50			82				82		50		625	75506	132	EACH	LUMINAIRE REMOVED	
						2				2				625	75510	2	EACH	POWER SERVICE REMOVED	
						1				1				625	75511	1	EACH	POWER SERVICE REMOVED, AS PER PLAN	49
			9			16				16		9		625	75540	25	EACH	LIGHT TOWER FOUNDATION REMOVED	
						3				3				625	75800	3	EACH	DISCONNECT CIRCUIT	
						3,722				3,722				632	29901	3,722	FT	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	50
						17				17				632	64000	17	EACH	STRAIN POLE FOUNDATION	
						17				17				632	84501	17	EACH	COMBINATION STRAIN POLE, TYPE TC-81.10, DESIGN 5, AS PER PLAN	50
																		TRAFFIC CONTROL	
		1,996								1,979			17	621	00100	1,996	EACH	RPM	
		1,927								1,910			17	621	54000	1,927	EACH	RAISED PAVEMENT MARKER REMOVED	
10	16										26			626	00102	26	EACH	BARRIER REFLECTOR, TYPE 1, ONE WAY	
	338									338				626	00110	338	EACH	BARRIER REFLECTOR, TYPE 2, ONE WAY	
				286						286				630	03100	286	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
				4						4				630	08004	4	FT	ONE WAY SUPPORT, NO. 3 POST	
				32						32				630	08600	32	EACH	SIGN POST REFLECTOR	
				186.5						186.5				630	80100	186.5	SF	SIGN, FLAT SHEET	
			2	8						8		2		630	84900	10	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
			4	8						8		4		630	86002	12	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	

LINE DELETED

LINE DELETED

LINE DELETED

CALCULATED LBA
CHECKED SNS

GENERAL SUMMARY

PRE-70-0.00

ITEM 625 - LIGHT TOWER REMOVED, AS PER PLAN

THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL LIGHT TOWER COMPONENTS ACCORDING TO C&MS 625 EXCEPT THAT THE LIGHT RINGS SHALL BE SALVAGED AND STORED ON THE PROJECT SITE. THE LIGHT RINGS WILL BE PICKED UP BY ODOT FOR USE ON ANOTHER PROJECT.

SUBSUMMARY

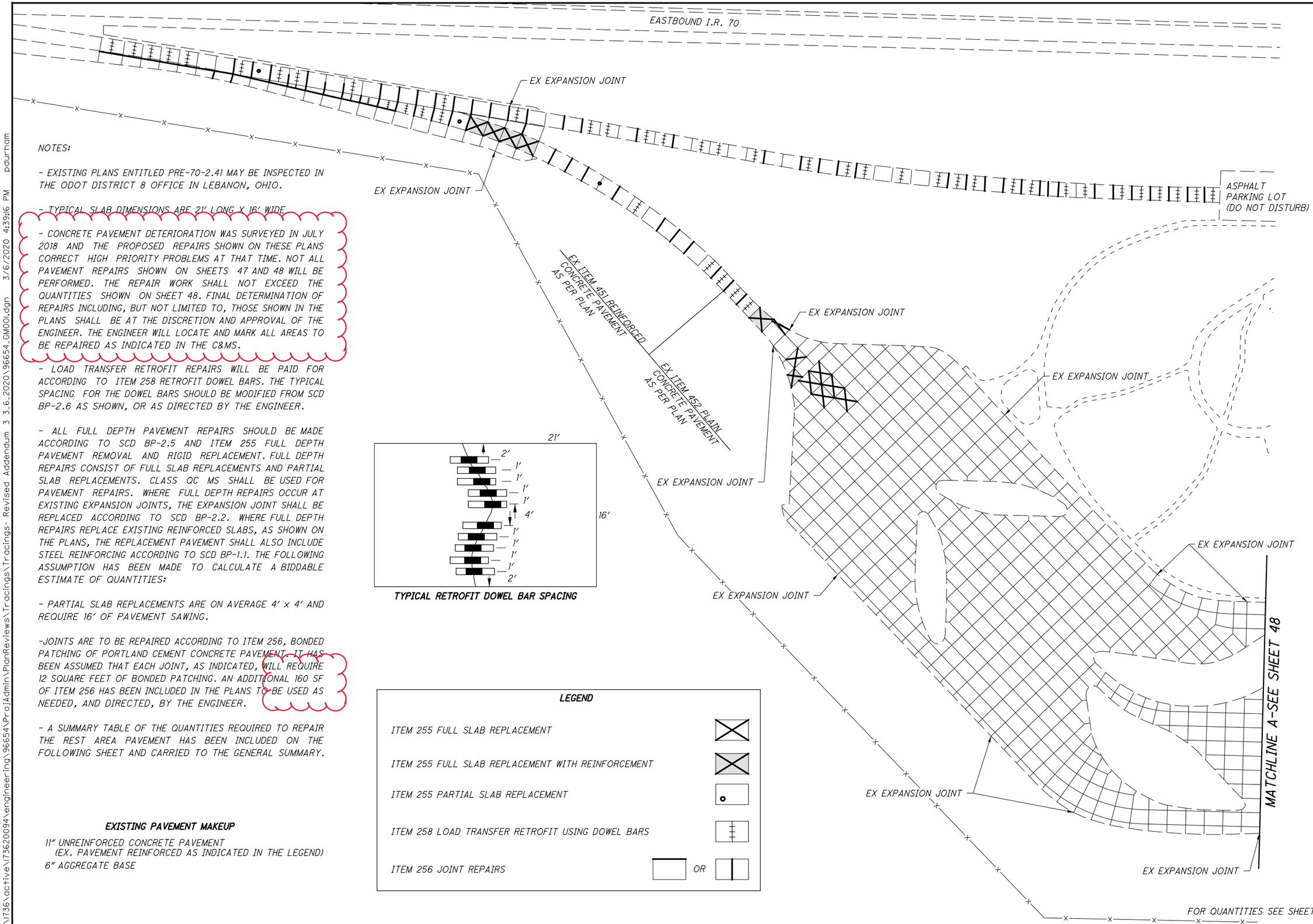
REF. NO	SHEET NO	202						203	614		622	625				626	630		659					832			
		PAVEMENT REMOVED	PAVEMENT REMOVED, ASPHALT	CURB REMOVED	PIPE REMOVED, 24" AND UNDER	CATCH BASIN REMOVED	INLET REMOVED	INLET ABANDONED	EXCAVATION	WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)	OBJECT MARKER, ONE WAY	PORTABLE BARRIER, UNANCHORED	PULL BOX REMOVED	LIGHT TOWER REMOVED, AS PER PLAN	LUMINAIRE REMOVED	LIGHT TOWER FOUNDATION REMOVED	BARRIER REFLECTOR, TYPE 1, ONE WAY	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	TOPSOIL	SEEDING AND MULCHING	COMMERCIAL FERTILIZER	LIME	WATER	EROSION CONTROL	STORM WATER POLLUTION PREVENTION PLAN	STORM WATER POLLUTION PREVENTION INSPECTIONS	STORM WATER POLLUTION PREVENTION SOFTWARE
		SY	SY	FT	FT	EACH	EACH	EACH	CY	EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	CY	SY	TON	ACRE	MGAL	EACH	LUMP	LUMP	LUMP
RA1	48A,48B																			1261	11355	1.54	2.35	62				
RA2	48A													1	4	1												
RA3	48A		1927																									
RA4	48A													1	6	1												
RA5	48A	2575		472					95																			
RA6	NOT USED																											
RA7	48A																	2	4									
RA8	48A		514																									
RA9	48A				28		1	1																				
RA10	48A												1															
RA11	48A													1	6	1												
RA12	48A												1															
RA13	48A												1															
RA14	48A													1	6	1												
RA15	48A												1															
RA16	48A												1															
RA17	48A													1	6	1												
RA18	48B												1															
RA19	48B													1	6	1												
RA20	48B												1															
RA21	48B												1															
RA22	48B												1															
RA23	48B												1															
RA24	48B													1	6	1												
RA25	48B												1															
RA26	48B	1113																										
RA27	48B													1	6	1												
RA28	48B				48	1	1																					
RA29	48B		1441																									
RA30	48B													1	4	1												
RA31	48A																								10000	LUMP	LUMP	LUMP
MAINTENANCE OF TRAFFIC										2	60	2950					60											
TOTALS CARRIED TO GENERAL SUMMARY		3688	3882	472	76	1	2	1	95	2	60	2950	11	9	50	9	60	2	4	1261	11355	1.54	2.35	62	10000	LUMP	LUMP	LUMP

CALCULATED LBA
CHECKED PJD

WESTBOUND REST AREA SUBSUMMARY

PRE-70-0.00

36A
147



NOTES:

- EXISTING PLANS ENTITLED PRE-70-2.41 MAY BE INSPECTED IN THE ODOT DISTRICT 8 OFFICE IN LEBANON, OHIO.

- TYPICAL SLAB DIMENSIONS ARE 21' LONG X 16' WIDE

- CONCRETE PAVEMENT DETERIORATION WAS SURVEYED IN JULY 2018 AND THE PROPOSED REPAIRS SHOWN ON THESE PLANS CORRECT HIGH PRIORITY PROBLEMS AT THAT TIME. NOT ALL PAVEMENT REPAIRS SHOWN ON SHEETS 47 AND 48 WILL BE PERFORMED. THE REPAIR WORK SHALL NOT EXCEED THE QUANTITIES SHOWN ON SHEET 48. FINAL DETERMINATION OF REPAIRS INCLUDING, BUT NOT LIMITED TO, THOSE SHOWN IN THE PLANS SHALL BE AT THE DISCRETION AND APPROVAL OF THE ENGINEER. THE ENGINEER WILL LOCATE AND MARK ALL AREAS TO BE REPAIRED AS INDICATED IN THE C&MS.

- LOAD TRANSFER RETROFIT REPAIRS WILL BE PAID FOR ACCORDING TO ITEM 258 RETROFIT DOWEL BARS. THE TYPICAL SPACING FOR THE DOWEL BARS SHOULD BE MODIFIED FROM SCD BP-2.6 AS SHOWN, OR AS DIRECTED BY THE ENGINEER.

- ALL FULL DEPTH PAVEMENT REPAIRS SHOULD BE MADE ACCORDING TO SCD BP-2.5 AND ITEM 255 FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT. FULL DEPTH REPAIRS CONSIST OF FULL SLAB REPLACEMENTS AND PARTIAL SLAB REPLACEMENTS. CLASS QC MS SHALL BE USED FOR PAVEMENT REPAIRS. WHERE FULL DEPTH REPAIRS OCCUR AT EXISTING EXPANSION JOINTS, THE EXPANSION JOINT SHALL BE REPLACED ACCORDING TO SCD BP-2.2. WHERE FULL DEPTH REPAIRS REPLACE EXISTING REINFORCED SLABS, AS SHOWN ON THE PLANS, THE REPLACEMENT PAVEMENT SHALL ALSO INCLUDE STEEL REINFORCING ACCORDING TO SCD BP-1.1. THE FOLLOWING ASSUMPTION HAS BEEN MADE TO CALCULATE A BIDDABLE ESTIMATE OF QUANTITIES:

- PARTIAL SLAB REPLACEMENTS ARE ON AVERAGE 4' x 4' AND REQUIRE 16' OF PAVEMENT SAWING.

-JOINTS ARE TO BE REPAIRED ACCORDING TO ITEM 256, BONDED PATCHING OF PORTLAND CEMENT CONCRETE PAVEMENT. IT HAS BEEN ASSUMED THAT EACH JOINT, AS INDICATED, WILL REQUIRE 12 SQUARE FEET OF BONDED PATCHING. AN ADDITIONAL 160 SF OF ITEM 256 HAS BEEN INCLUDED IN THE PLANS TO BE USED AS NEEDED, AND DIRECTED, BY THE ENGINEER.

- A SUMMARY TABLE OF THE QUANTITIES REQUIRED TO REPAIR THE REST AREA PAVEMENT HAS BEEN INCLUDED ON THE FOLLOWING SHEET AND CARRIED TO THE GENERAL SUMMARY.

TYPICAL RETROFIT DOWEL BAR SPACING

LEGEND

ITEM 255 FULL SLAB REPLACEMENT

ITEM 255 FULL SLAB REPLACEMENT WITH REINFORCEMENT

ITEM 255 PARTIAL SLAB REPLACEMENT

ITEM 258 LOAD TRANSFER RETROFIT USING DOWEL BARS

ITEM 256 JOINT REPAIRS OR

EXISTING PAVEMENT MAKEUP

11" UNREINFORCED CONCRETE PAVEMENT
(EX. PAVEMENT REINFORCED AS INDICATED IN THE LEGEND)
6" AGGREGATE BASE

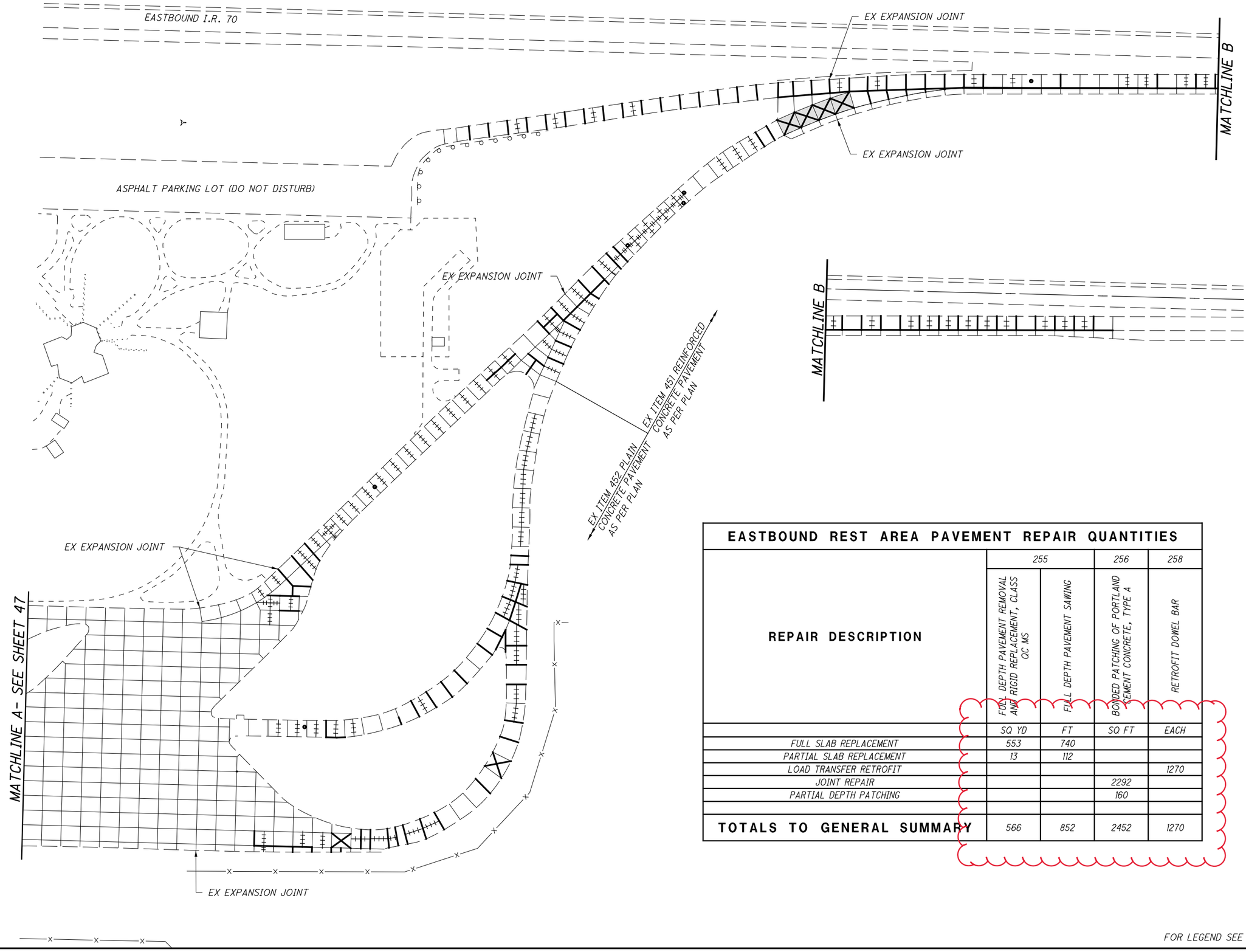
HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED JTK
CHECKED PJD

PAVEMENT REHABILITATION PLAN EASTBOUND REST AREA SHEET 1

PRE-70-0.00

47
147



EASTBOUND REST AREA PAVEMENT REPAIR QUANTITIES

REPAIR DESCRIPTION	255		256	258
	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS	FULL DEPTH PAVEMENT SAWING	BONDED PATCHING OF PORTLAND CEMENT CONCRETE, TYPE A	RETROFIT DOWEL BAR
	SQ YD	FT	SQ FT	EACH
FULL SLAB REPLACEMENT	553	740		
PARTIAL SLAB REPLACEMENT	13	112		
LOAD TRANSFER RETROFIT				1270
JOINT REPAIR			2292	
PARTIAL DEPTH PATCHING			160	
TOTALS TO GENERAL SUMMARY	566	852	2452	1270

FOR LEGEND SEE SHEET NO. 47

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED JTK
CHECKED PJD

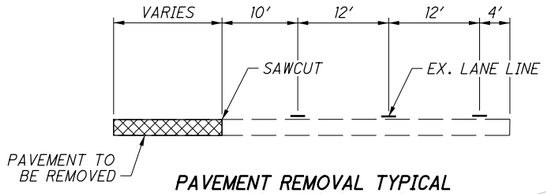
PAVEMENT REHABILITATION PLAN
EASTBOUND REST AREA SHEET 2

PRE-70-0.00

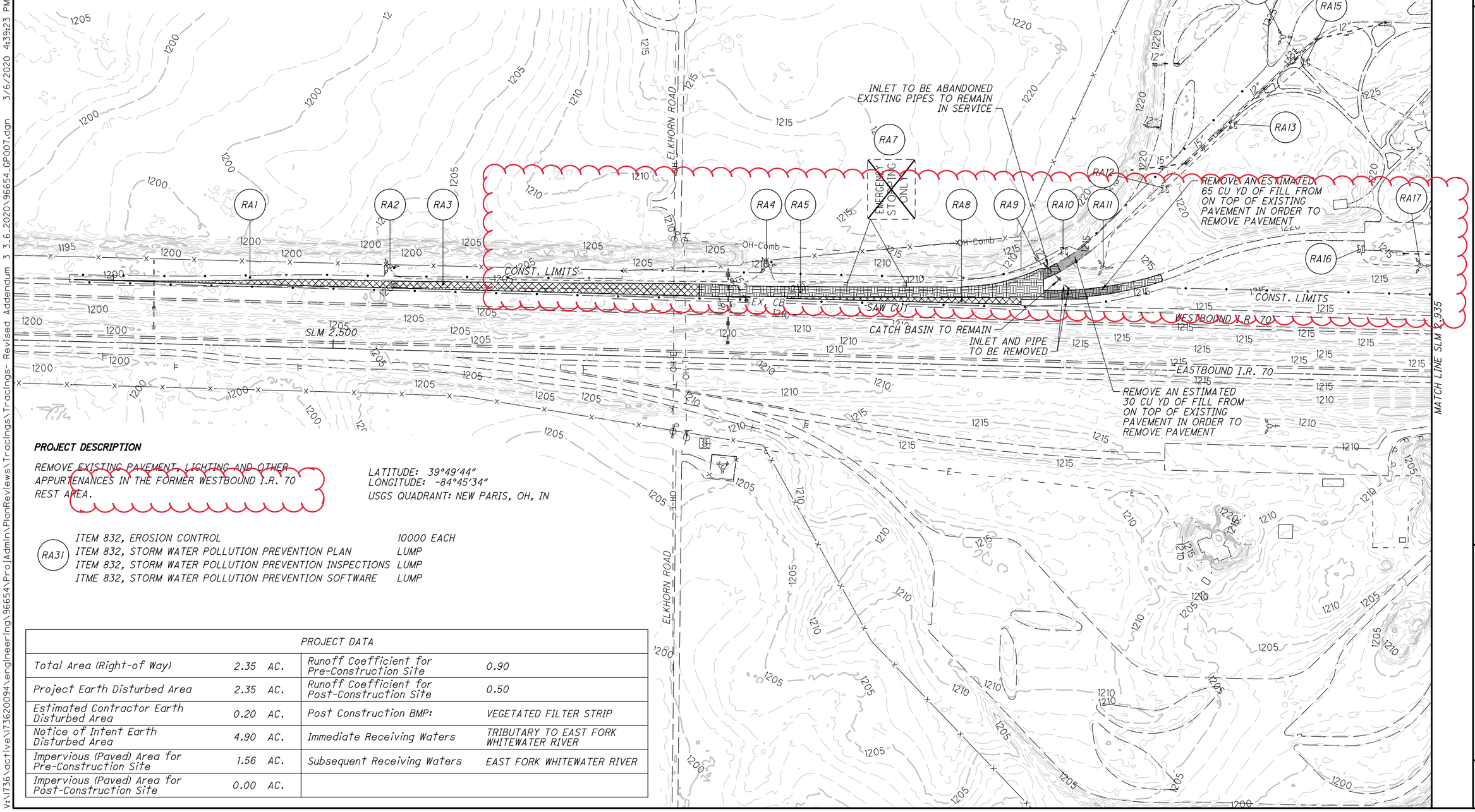
LEGEND

- ASPHALT PAVEMENT REMOVED
- CONCRETE PAVEMENT REMOVED (11" REINFORCED CONCRETE PAVEMTENT)
- FILL REMOVED

NOTE:
ALL BACKFILL MATERIAL REQUIRED BY C&MS 202.02 AND 202.05 THAT IS LOCATED WITHIN 15' OF THE EDGE OF TRAVELED WAY OF I.R. 70, SHALL HAVE A SLOPE OF NO MORE THAN 12:1.



PAVEMENT REMOVAL TYPICAL
WESTBOUND I.R. 70



PROJECT DESCRIPTION

REMOVE EXISTING PAVEMENT, LIGHTING AND OTHER APPURTENANCES IN THE FORMER WESTBOUND I.R. 70 REST AREA.

LATITUDE: 39°49'44"
LONGITUDE: -84°45'34"
USGS QUADRANT: NEW PARIS, OH, IN

RA31	ITEM 832, EROSION CONTROL		10000 EACH
	ITEM 832, STORM WATER POLLUTION PREVENTION PLAN		LUMP
	ITEM 832, STORM WATER POLLUTION PREVENTION INSPECTIONS		LUMP
	ITME 832, STORM WATER POLLUTION PREVENTION SOFTWARE		LUMP

PROJECT DATA					
Total Area (Right-of Way)	2.35	AC.	Runoff Coefficient for Pre-Construction Site		0.90
Project Earth Disturbed Area	2.35	AC.	Runoff Coefficient for Post-Construction Site		0.50
Estimated Contractor Earth Disturbed Area	0.20	AC.	Post Construction BMP:		VEGETATED FILTER STRIP
Notice of Intent Earth Disturbed Area	4.90	AC.	Immediate Receiving Waters		TRIBUTARY TO EAST FORK WHITEWATER RIVER
Impervious (Paved) Area for Pre-Construction Site	1.56	AC.	Subsequent Receiving Waters		EAST FORK WHITEWATER RIVER
Impervious (Paved) Area for Post-Construction Site	0.00	AC.			

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N

0 50 100 200 HORIZONTAL SCALE IN FEET

CALCULATED LBA
CHECKED PJD

WEST BOUND REST AREA PLAN
ENTRANCE RAMP REMOVAL

PRE-70-0.00

LEGEND

ASPHALT PAVEMENT REMOVED

CONCRETE PAVEMENT REMOVED

RA20 RA19 RA21 RA18 RA22 RA23 RA24 RA25 RA26 RA27 RA28 RA1 RA30 RA29 RA30

12" 12" 12" 15" 12" 12" 12" 12" 12" 12" 18" 6" 30" 12"

CONST. LIMITS

CONST. LIMITS

WESTBOUND I.R. 70

EASTBOUND I.R. 70

SAW CUT

CATCH BASIN AND PIPE TO REMAIN

MATCH LINE SLM 2.935

SLM 3.000

FOR TYPICAL, SEE SHEET NO 48A

NOTE:
ALL BACKFILL MATERIAL REQUIRED BY C&MS 202.02 AND 202.05 THAT IS LOCATED WITHIN 15' OF THE EDGE OF TRAVELED WAY OF I.R. 70, SHALL HAVE A SLOPE OF NO MORE THAN 12:1.

N

HORIZONTAL SCALE IN FEET
0 50 100 200

CALCULATED LBA
CHECKED PJD

WEST BOUND REST AREA PLAN
EXIT RAMP REMOVAL

PRE-70-0.00

ITEM 625, POWER SERVICE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF THE SPECIFICATIONS, THE FOLLOWING IS ADDED.

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

DAYTON POWER & LIGHT
1900 DRYDEN ROAD
DAYTON, OHIO 45439
(937) 331-4521 (BILL GOURLEY)
WILLIAM.GOURLEY@AES.COM

THE ENGINEER SHALL ENSURE THAT EACH POWER SERVICE ELECTRICAL ENERGY ACCOUNT IS IN THE NAME OF AND THAT THE BILLING ADDRESS IS TO THE MAINTAINING AGENCY NOTED IN THE PLANS. THIS SHALL BE DONE NOT ONLY FOR EACH NEW POWER SERVICE ESTABLISHED BY THIS PROJECT BUT ALSO FOR EACH EXISTING POWER SERVICE, SINCE THERE MAY BE A REASSIGNMENT OF THE RESPONSIBILITY FOR AN EXISTING SERVICE AS A RESULT OF THE WORK PERFORMED BY THIS PROJECT.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH C&MS ITEM 625, "POWER SERVICE, AS PER PLAN" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

PADLOCKS AND KEYS

PADLOCKS FURNISHED SHALL BE EITHER BRASS OR BRONZE, EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNAN 660A, AND SHALL BE KEYED IN ACCORDANCE WITH C&MS 631.06. PAYMENT SHALL BE INCLUDED IN THE BID FOR THE ITEMS BEING LOCKED.

ITEM SPECIAL, MAINTAIN EXISTING LIGHTING

DURING CONSTRUCTION OF THIS PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE ENTIRETY OF ANY CIRCUIT, INCLUDING BUT NOT LIMITED TO POLES, FIXTURES, CABLE, FUSES, ETC., THAT PASSES THROUGH THE PROJECT LIMITS.

BEFORE ANY WORK IS STARTED IN THE IMMEDIATE VICINITY OF THE EXISTING LIGHTING CIRCUITS, REPRESENTATIVES OF ODOT, THE MAINTAINING AGENCY AND THE CONTRACTOR SHALL MAKE A VISUAL INSPECTION OF THE EXISTING ROADWAY LIGHTING CIRCUITS TO BE MAINTAINED. DURING THIS INSPECTION, A WRITTEN RECORD OF THE CONDITION OF EXISTING LIGHTING SHALL BE MADE BY ODOT'S REPRESENTATIVE. THIS WRITTEN REPORT SHALL NOTE INDIVIDUAL LUMINAIRES WHICH ARE NOT IN WORKING ORDER, INDIVIDUAL POLES WHICH ARE NOT STANDING, AND INDIVIDUAL CIRCUITS WHICH ARE NOT IN WORKING ORDER. THE COMPLETED REPORT SHALL BE SIGNED BY THE REPRESENTATIVES OF ODOT, THE MAINTAINING AGENCY AND THE CONTRACTOR.

IF, AS A RESULT OF THIS INSPECTION, IT IS DETERMINED THAT THE CONDITION OF THE EXISTING SYSTEM IS BELOW THAT REQUIRED FOR THE SAFETY OF THE TRAVELING PUBLIC, THEN THE MAINTAINING AGENCY SHALL MAKE THE REPAIRS NECESSARY TO RETURN THE SYSTEM TO AN ACCEPTABLE CONDITION. FOLLOWING THESE REPAIRS, THE SYSTEM SHALL AGAIN BE INSPECTED AND A REPORT SHALL BE MADE AND SIGNED AS OUTLINED HEREIN.

WHEN THE EXISTING SYSTEM IS IN AN ACCEPTABLE CONDITION, IT SHALL BE TURNED OVER TO THE CONTRACTOR WHO SHALL THEN BE REQUIRED TO MAINTAIN THE EXISTING LIGHTING TO THE CONDITION OUTLINED IN THIS REPORT WITH THE EXCEPTION OF KNOCKDOWNS DUE TO TRAFFIC ACCIDENTS.

ITEM SPECIAL, MAINTAIN EXISTING LIGHTING (CONTINUED)

REPLACEMENT OF KNOCKED DOWN UNITS SHALL BE DONE ONLY WHEN THE ENGINEER HAS DETERMINED THAT THE REPLACEMENT OF THE KNOCKED DOWN UNIT IS NECESSARY AND SHALL BE PAID SEPARATELY ON A UNIT BASIS.

BETTERMENTS SHALL BE COVERED IN ITEMS OF WORK PERTAINING TO THE CONSTRUCTION OF PERMANENT IMPROVEMENT.

WHEN THE SEQUENCE OF CONSTRUCTION ACTIVITIES REQUIRES, OR SHOULD THE CONTRACTOR DESIRE, THE REMOVAL OF THE EXISTING LIGHTING BEFORE THE NEW LIGHTING IS OPERATIONAL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY LIGHTING OF THIS PORTION OF THE ROADWAY.

PRIOR TO INSTALLING SUCH LIGHTING, THE CONTRACTOR SHALL PREPARE AND SUBMIT FOUR SETS OF THE TEMPORARY LIGHTING PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL.

THIS PLAN SHALL SHOW LOCATIONS OF POLES, LENGTHS OF BRACKET ARMS, STYLES OF LUMINAIRES, MOUNTING HEIGHTS, WIRING METHODS AND OTHER PERTINENT INFORMATION. THE TEMPORARY LIGHTING SHALL PROVIDE AN AVERAGE INITIAL INTENSITY OF 1.2 FOOTCANDLES WITH AN AVERAGE TO MINIMUM UNIFORMITY NOT TO EXCEED 3:1. MOUNTING HEIGHT OF TEMPORARY LUMINAIRES SHALL NOT BE LESS THAN 30 FEET, AND THE MINIMUM OVERHEAD CONDUCTOR CLEARANCE SHALL BE 20 FEET. TEMPORARY OVERHEAD CONSTRUCTION SHALL NOT BE LESS THAN GRADE "B" FOR STRENGTH REQUIREMENTS AS DEFINED BY THE NATIONAL ELECTRIC SAFETY CODE. WOOD POLES WITH OVERHEAD WIRING MAY BE USED. HOWEVER, TEMPORARY LIGHTING SHALL MEET FEDERAL AND STATE SAFETY CRITERIA. IF BREAKAWAY POLES ARE USED TO MEET THESE CRITERIA, THEN UNDERGROUND WIRING SHALL BE USED. RECONDITIONED OR USED MATERIALS MAY BE FURNISHED FOR TEMPORARY LIGHTING.

ALL MATERIALS NECESSARY TO COMPLETE THE TEMPORARY LIGHTING SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. WHEN NO LONGER NEEDED, THE TEMPORARY LIGHTING INSTALLATION SHALL BE REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR.

THE MAINTAINING AGENCY WILL PAY FOR ELECTRICAL ENERGY CONSUMED BY EXISTING POWER SERVICES. THE CONTRACTOR WILL PAY FOR ELECTRICAL ENERGY, INSTALLATION, REMOVAL AND MAINTENANCE OF ANY TEMPORARY POWER SERVICES.

THE LUMP SUM PRICE BID FOR ITEM SPECIAL "MAINTAIN EXISTING LIGHTING" SHALL INCLUDE PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO MAINTAIN THE EXISTING LIGHTING AS SPECIFIED HEREIN.

THE UNIT PRICE BID FOR ITEM SPECIAL "REPLACEMENT OF EXISTING LIGHTING UNIT" SHALL BE FULL PAYMENT FOR THE REPLACEMENT OF AN EXISTING LIGHTING UNIT WHICH HAS BEEN KNOCKED DOWN AFTER THE AFOREMENTIONED INSPECTION AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO PROVIDE A REPLACEMENT FOR SUCH UNIT.

THE FOLLOWING ESTIMATED QUANTITES ARE INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM SPECIAL, MAINTAIN EXISTING LIGHTING LUMP
ITEM SPECIAL, REPLACEMENT OF EXISTING LIGHTING UNIT
2 EACH

ITEM 625, LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, IES-III-M, LED, 9200-11600 LUMENS

LUMINAIRES FOR CONVENTIONAL LIGHTING UNITS SHALL BE AMERICAN ELECTRIC LIGHTING "AUTOBAHN ATBM D 480 R2 4B", COOPER INDUSTRIES "VERDEON VERD-A02-E-U-T2-7030-10K-IP66-4B-AP", GENERAL ELECTRIC "EVOLVE ERLH-5-10-B3-30-E-GRAY", OR EQUAL AS APPROVED BY THE ENGINEER. PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH C&MS ITEM 625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), IES-III-M, LED, 9200-11600 LUMENS, AS PER PLAN FOR EACH LUMINAIRE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625, LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, IES-V-M, LED, 38400-42000 LUMENS

THE LUMINAIRE ARRAYS AND ASSOCIATED ILLUMINATION TEST AREAS SPECIFIED IN C&MS 725.11 ARE HEREBY WAIVED. INSTEAD, THE LUMINAIRES FOR LOW-MAST AND HIGH-MAST LIGHTING SHALL MEET THE FOLLOWING REQUIREMENTS:

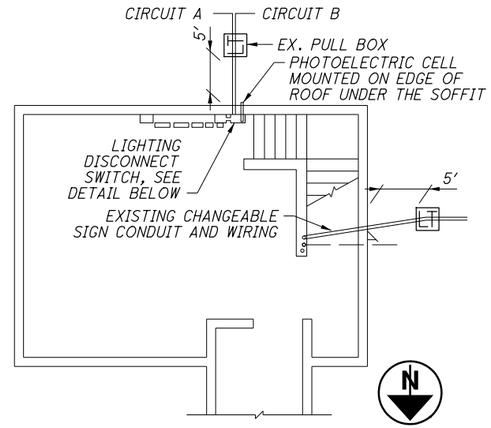
LUMINAIRES FOR LOW-MAST UNITS SHALL BE HOLOPHANE "HMLED3-PK2-30K-HVOLT- G-AW", CAROLINA HIGH MAST "CLED-4M-G-30-SO-B-05", GENERAL ELECTRIC "ERHM-01-5-40-VM-7-30-N-1-4B-GRAY-R", OR EQUAL AS APPROVED BY THE ENGINEER.

IN ADDITION, OTHER LUMINAIRES WILL BE CONSIDERED IF THE DESIGNED INTENSITY AND UNIFORMITY ARE PROVIDED USING THE DESIGNED POLE LOCATIONS AND THE DESIGNED NUMBER AND TYPE OF FIXTURES PER POLE.

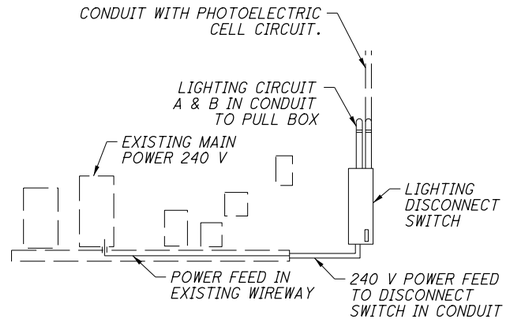
PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH C&MS ITEM 625, LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, IES-V-M, LED, 38400-42000 LUMENS FOR EACH LUMINAIRE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625, POWER SERVICE REMOVED, AS PER PLAN

REMOVE THE EXISTING POWER SERVICE FOR CIRCUITS A AND B FROM THE BASEMENT OF THE WEIGH STATION BUILDING AS SHOWN IN THE DETAILS BELOW. ALL ASPECTS OF ITEM 625.21 F SHALL APPLY WITH THE ADDITION THAT ANY HOLES IN THE WEIGH STATION BUILDING SHALL BE FILLED AND REPAIRED WITH MORTAR OR OTHER APPROPRIATE MATERIAL TO THE SATISFACTION OF THE ENGINEER.



WEIGH STATION BASEMENT PLAN



CONTROL CENTER ELEVATION

CONTROL CENTER DATA TABLE

CONTROL CENTER DESIGNATION	LINE VOLTS	CONNECTED LOAD (KVA)	SERVICE ENTRANCES CONDUCTOR SIZE - AWG	ENCLOSURE RATING (AMPS)	CIRCUIT	CIRCUIT LOAD (AMPS)	CIRCUIT FUSE SIZE	CIRCUIT CABLE SIZE AWG	MAINTAINING AGENCY
B	480	2.09	4	60	B	4.36	15	4	ODOT
C	480	1.3	4	60	C	2.7	15	4	ODOT
D	480	1.56	4	60	D	3.24	15	4	ODOT
E	480	1.56	4	60	E	3.24	15	4	ODOT
F	480	3.11	4	60	F	3.51	15	4	ODOT
					G	2.97	15	4	ODOT

NOTE: FOR ADDITIONAL CONTROL CENTER DETAILS, SEE STANDARD DRAWINGS.

CALCULATED PJD CHECKED SNS

LIGHTING NOTES

PRE-70-0.00

GROUNDING AND BONDING

THE REQUIREMENTS OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMS) AND THE TC SERIES OF STANDARD CONSTRUCTION DRAWINGS ARE MODIFIED AS FOLLOWS:

1. ALL METALLIC PARTS CONTAINING ELECTRICAL CONDUCTORS SHALL BE PERMANENTLY JOINED TO FORM AN EFFECTIVE GROUND FAULT CURRENT PATH BACK TO THE GROUNDED CONDUCTOR IN THE POWER SERVICE DISCONNECT SWITCH.
   A. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR IN METALLIC CONDUITS (725.04) IN ADDITION TO THE CONDUCTORS SPECIFIED AND BOND THE CONDUIT TO THIS GROUNDING CONDUCTOR.
   B. WHEN AN EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED IN PLASTIC CONDUIT (725.05), THE INSTALLATION SHALL INCLUDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN ADDITION TO THE CONDUCTORS SPECIFIED.
   C. METALLIC CONDUIT CARRYING THE LOOP WIRES FROM IN THE PAVEMENT TO THE PULL BOX SPLICE LOCATION WILL ONLY BE BONDED AT THE PULL BOX END, AND WILL NOT CONTAIN AN EQUIPMENT GROUNDING CONDUCTOR.
   D. IF MULTIPLE CONDUIT RUNS BEGIN AND END AT THE SAME POINTS, ONLY ONE EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED.
   E. THE MESSENGER WIRE AT SIGNALIZED INTERSECTIONS WILL BE USED AS THE CONDUCTIVE PATH FROM CORNER TO CORNER IF CONDUIT IS NOT PROVIDED UNDER THE ROADWAY. WHEN CONDUIT CONNECTS THE CORNERS OF AN INTERSECTION, AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE USED IN THE CONDUIT.
2. CONDUITS.
   A. THE 725.04 CONDUIT SHALL HAVE GROUNDING BUSHINGS INSTALLED AT ALL TERMINATION POINTS. THE BUSHING MATERIAL SHALL BE COMPATIBLE WITH GALVANIZED STEEL CONDUIT AND THE GROUNDING LUG MATERIAL SHALL BE COMPATIBLE FOR USE WITH COPPER WIRE. THREADED OR COMPRESSION TYPE BUSHINGS MAY BE USED.
   B. THE 725.05 CONDUIT SHALL HAVE THE INSIDE AND OUTSIDE DIAMETERS OF THE CONDUIT DEBURRED AT ALL TERMINATION POINTS.
   C. BOTH ENDS OF METALLIC CONDUIT SHALL BE BONDED TO THE EQUIPMENT GROUNDING CONDUCTOR.
   D. METALLIC CONDUIT MAY BE BONDED TO METALLIC BOXES THROUGH THE USE OF CONDUIT FITTINGS UL APPROVED FOR THIS TYPE OF CONNECTION, WITH THE BOX BONDED TO THE EQUIPMENT GROUNDING CONDUCTOR.
3. WIRE FOR GROUNDING AND BONDING.
   A. USE INSULATED, COPPER WIRE FOR THE EQUIPMENT GROUNDING CONDUCTOR. BONDING JUMPERS IN BOXES AND ENCLOSURES MAY BE BARE OR INSULATED COPPER WIRE. WIRE SIZE SHALL BE AS FOLLOWS:
      I. USE 4 AWG BETWEEN THE POWER SERVICE AND SUPPORTS, POLES, PEDESTALS, CONTROLLER OR FLASHER CABINETS.
      II. THE INSULATION SHALL BE GREEN OR GREEN WITH YELLOW STRIPE(S). FOR 4 AWG OR LARGER, INSULATION MAY ALSO BE BLACK WITH GREEN TAPE/LABELS INSTALLED AT ALL ACCESS POINTS.

GROUNDING AND BONDING (CONTINUED)

   B. IN A HIGHWAY LIGHTING SYSTEM, THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE THE SAME WIRE SIZE AS THE DUCT CABLE OR DISTRIBUTION CABLE CIRCUIT CONDUCTORS, WITH THE MINIMUM CONDUCTOR SIZE OF 4 AWG. BONDING JUMPERS WILL BE MINIMUM SIZE 4 AWG.
4. GROUND ROD.
   A. A ¾ INCH SCHEDULE 40 PVC CONDUIT WILL BE USED IN FOUNDATIONS AND CONCRETE WALLS FOR THE GROUNDING CONDUCTOR (GROUND WIRE) RACEWAY TO THE GROUND ROD. SHOULD METALLIC CONDUIT BE USED, BOTH ENDS OF THE CONDUIT SHALL BE BONDED TO THE GROUNDING CONDUCTOR.
   B. THE TYPICAL GROUNDING CONDUCTOR (GROUND WIRE) SHALL BE 4 AWG INSULATED, COPPER.
5. POWER SERVICE AND DISCONNECT SWITCH.
   A. AT THE POWER SERVICE LOCATION, THE GROUNDING CONDUCTOR (GROUND WIRE) FROM THE DISCONNECT SWITCH NEUTRAL (AC-) BAR TO THE GROUND ROD SHALL BE A CONTINUOUS, UN-SPLICED CONDUCTOR. IF SPLICED, IT SHALL BE AN EXOTHERMIC WELD BUTT SPLICE.
   B. THE SERVICE NEUTRAL (AC-) SHALL ONLY BE CONNECTED TO GROUND AT THE PRIMARY POWER SERVICE DISCONNECT SWITCH.
      I. NEMA CONTROLLER CABINETS: IF A POWER SERVICE DISCONNECT SWITCH IS LOCATED BEFORE THE CONTROLLER CABINET, THE NEUTRAL (AC-) AND THE GROUNDING BARS IN THE CONTROLLER CABINET SHALL NOT BE CONNECTED TOGETHER AS SHOWN IN NEMA TS-2, FIGURE 5-4.
      II. IF SECONDARY DISCONNECT SWITCHES ARE CONNECTED AFTER THE PRIMARY DISCONNECT SWITCH, THE NEUTRAL (AC-) SHALL ONLY BE GROUNDED AT THE PRIMARY SWITCH. EQUIPMENT GROUNDING CONDUCTORS SHALL BE BROUGHT TO THE PRIMARY SWITCH, BUT SHALL BE GROUNDED AT BOTH SECONDARY AND PRIMARY SWITCHES.
6. PAYMENT - ALL MATERIALS AND WORK REQUIRED TO COMPLETE THE EFFECTIVE GROUND FAULT CURRENT PATH SYSTEM ARE INCIDENTAL TO THE CONDUCTORS INSTALLED BY CONTRACT.

ITEM 625, CONNECTION, FUSED PULL APART, AS PER PLAN

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A FUSED PULL APART CONNECTION AS DETAILED IN C&MS 625. ADDITIONAL WORK INCLUDED WITH THIS ITEM SHALL CONSIST OF REMOVING AND DISPOSING OF THE REMAINING PORTION OF THE EXISTING PULL APART CONNECTION AT THE END OF THE POLE AND BRACKET CABLE. PAYMENT SHALL BE MADE AT THE UNIT PRICE BID UNDER C&MS ITEM 625, "CONNECTION, FUSED PULL APART, AS PER PLAN" FOR EACH CONNECTION AND SHALL INLCUDE ALL LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 632, MESSENGER WIRE, 7 STRAND, ¼" DIAMETER WITH ACCESSORIES, AS PER PLAN

ALL ASPECTS OF ITEM 632 SHALL APPLY WITH THE EXCEPTION THAT PVC COATED MESSENGER SUPPORT RINGS SHALL BE USED TO SUPPORT LIGHTING CONDUCTORS INSTEAD OF LASHING ROD. MESSENGER SUPPORT RINGS SHOULD BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. PAYMENT SHALL BE MADE AT THE UNIT PRICE BID UNDER C&MS ITEM 632 MESSENGER WIRE, 7 STRAND, ¼" DIAMETER WITH ACCESSORIES, AS PER PLAN PER FOOT AND SHALL INLCUDE ALL LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 632, COMBINATION STRAIN POLE, TYPE TC-81.10, DESIGN 5, AS PER PLAN

ALL ASPECTS OF 632 SHALL APPLY. ADDITIONALLY, LABEL EACH STRAIN POLE WITH THE ALPHA NUMERIC IDENTIFIER. PLACE THE IDENTIFIER ON THE QUADRANT OF THE SURFACE OF THE POLE THAT FACES ONCOMING TRAFFIC AT APPROXIMATELY 7 FEET (2 METERS) ABOVE THE ROADWAY SURFACE. APPLY THE IDENTIFIER LETTERS AND NUMERALS WHEN THE AMBIENT AIR TEMPERATURE, THE TEMPERATURE OF THE LABELING MATERIAL AND THE TEMPERATURE OF THE SURFACE TO WHICH THE LABELS ARE APPLIED ARE ALL ABOVE 40° F (4° C).

ITEM 659, SEEDING AND MULCHING

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL NOTES TO COVER SEEDING AND MULCHING OF DISTURBED AREAS DUE TO THE CONSTRUCTION OF THE PROPOSED LIGHTING CIRCUITS. THE ESTIMATED QUANTITY WAS CALCULATED BASED ON AN ASSUMPTION OF 5 FEET OF DISTURBANCE PER LINEAR FOOT OF TRENCH.

ITEM 659, SEEDING & MULCHING 10860 SY

CALCULATED PJD CHECKED SNS

LIGHTING NOTES

PRE-70-0.00

SHEET NO.	REFERENCE NO.	CIRCUIT	COORDINATES		CONNECTION, FUSED PULL APART	CONNECTION, FUSED PULL APART, AS PER PLAN	CONNECTION, UNFUSED PERMANENT	LIGHT POLE, CONVENTIONAL, AT20B40	LIGHT POLE FOUNDATION, 24" X 8' DEEP	BRACKET ARM, 20'	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 6 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 10 AWG POLE AND BRACKET CABLE	1-1/2" DUCT CABLE WITH THREE NO.4 AWG 2400 VOLT CABLES	1-1/2" DUCT CABLE WITH THREE NO.6 AWG 2400 VOLT CABLES	CONDUIT, 3", 725.04	CONDUIT, JACKED OR DRILLED, 725.04, 3"	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	TRENCH	PULL BOX, 725.08, 18"	PULL BOX REMOVED	GROUND ROD	POWER SERVICE, AS PER PLAN	PLASTIC CAUTION TAPE	LIGHT TOWER REMOVED	LUMINAIRE REMOVED	POWER SERVICE REMOVED	POWER SERVICE REMOVED, AS PER PLAN	LIGHT TOWER FOUNDATION REMOVED	DISCONNECT CIRCUIT	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	STRAIN POLE FOUNDATION	COMBINATION STRAIN POLE, TYPE TC-81.10, DESIGN 5, AS PER PLAN
			NORTHING	EASTING	EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	FT	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH	FT	EACH	EACH
58	1	B	674220	1320831		2												1									1						
	2	B												470						460					460								
	3	B	674173	1321287		2												1									1						
	4	B												243						233					233								
	5	B	674132	1321514		2												1									1						
	6	B												265						255					255								
	7	B	674065	1321756			6														1												
	8	B												200						190					190								
	9	B	673924	1321833		2												1									1						
	10	B												220						210					210								
	11	B	673918	1322041		2												1									1						
	12	B												221						211					211								
	13	B	674068	1322133			3														1												
	14	B												16						11					11								
	15	B	674064	1321728																				1									
	16	B									135					30				30					30								
	17	B									360						110																
	18	B	674087	1321864		2													1								1						
	19	B									315						95																
	20	B	674082	1322039		2													1								1						
	21	B	674087	1321746																		1											
	22	B	674068	1321996																		1							1		1		
59	1	B												1381						1381					1381								
60	1	B												40						35					35								
	2	B	674131	1323558		2												1									1						
	3	B												485						475					475								
	4	B	674129	1324032		2												1									1						
	5	B												520						510					510								
	6	B	674123	1324540		2												1									1						
TOTALS CARRIED TO SHEET NO. 57					0	20	9	0	0	0	810	0	0	4061	0	30	205	18	2	4001	2	2	0	1	4001	0	10	0	1	0	1	0	0	0

625

632

CALCULATED PJD
CHECKED SNS

LIGHTING QUANTITIES

PRE-70-0.00

51
147

V:\1736\active\173620094\engineering\96654\ProjAdmin\PlanReviews\Tracings\Tracings- Revised Addendum 3 3_6_2020\96654_LS001.dgn 3/7/2020 10:26:58 AM pdurham

SHEET NO.	REFERENCE NO.	CIRCUIT	COORDINATES		625																								632			
			NORTHING	EASTING	CONNECTION, FUSED PULL APART	CONNECTION, FUSED PULL APART, AS PER PLAN	CONNECTION, UNFUSED PERMANENT	LIGHT POLE, CONVENTIONAL, AT20B40	LIGHT POLE FOUNDATION, 24" X 8' DEEP	BRACKET ARM, 20'	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 6 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 10 AWG POLE AND BRACKET CABLE	1-1/2" DUCT CABLE WITH THREE NO.4 AWG 2400 VOLT CABLES	1-1/2" DUCT CABLE WITH THREE NO.6 AWG 2400 VOLT CABLES	CONDUIT, 3", 725.04	CONDUIT, JACKED OR DRILLED, 725.04, 3"	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	TRENCH	PULL BOX, 725.08, 18"	PULL BOX REMOVED	GROUND ROD	POWER SERVICE, AS PER PLAN	PLASTIC CAUTION TAPE	LIGHT TOWER REMOVED	LUMINAIRE REMOVED	POWER SERVICE REMOVED	POWER SERVICE REMOVED, AS PER PLAN	LIGHT TOWER FOUNDATION REMOVED	DISCONNECT CIRCUIT	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	STRAIN POLE FOUNDATION	COMBINATION STRAIN POLE, TYPE TC-81.10, DESIGN 5, AS PER PLAN
					EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	FT	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH	5.5	FT	EACH	EACH
60	7	C	674346	1324324																				1									
	8	C									195					50				50													
	9	C	674294	1324323			3														1												
	10	C												210						200				200									
	11	C	674294	1324523	2			1	1				180					1					1										
	12	C												277						272				272									
61	1	C												109						104				104									
	2	C	674291	1324897	2			1	1				180					1					1										
	3	C												366						356				356									
	4	C	674290	1325253	2			1	1				180					1					1										
	5	C												345						335				335									
	6	C	674288	1325587	2			1	1				180					1					1										
	7	C												320						310				310									
	8	C	674287	1325897	2			1	1				180					1					1										
	9	C												15						5				5									
	10	C	674282	1325897			3														1												
	11	C									624						138																
	12	C	674084	1325897			3														1												
	13	C												295						290				290									
62	1	C												451						446				446									
	2	C	674055	1326626	2			1	1				180					1					1										
	3	C												487						477				477									
	4	C	674035	1327102	2			1	1				180					1					1										
	5	C												185						175				175									
	6	C	674013	1327275	2			1	1				180					1					1										
	7	C												210						200				200									
	8	C	671977	1327470	2			1	1				180					1					1										
	9	C									171						47																
	10	C	674022	1327457			3														1												
	11	C												36						26				26									
	12	C	674046	1327450	2			1	1				180					1					1										
TOTALS CARRIED TO SHEET NO. 57					20	0	12	10	10	0	990	0	1800	3306	0	50	245	10	0	3246	4	0	10	1	3246	0	0	0	0	0	0	0	0	0

CALCULATED PJD
CHECKED SNS

LIGHTING QUANTITIES

PRE-70-0.00

52
147

LIGHTING QUANTITIES

CALCULATED PJD
CHECKED SNS

PRE-70-0.00

54
147

SHEET NO.	REFERENCE NO.	CIRCUIT	COORDINATES		625																						632		
			NORTHING	EASTING	CONNECTION, FUSED PULL APART	CONNECTION, FUSED PULL APART, AS PER PLAN	CONNECTION, UNFUSED PERMANENT	LIGHT POLE, CONVENTIONAL, AT20B40	LIGHT POLE FOUNDATION, 24" X 8' DEEP	BRACKET ARM, 20'	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 6 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 10 AWG POLE AND BRACKET CABLE	1-1/2" DUCT CABLE WITH THREE NO.4 AWG 2400 VOLT CABLES	1-1/2" DUCT CABLE WITH THREE NO.6 AWG 2400 VOLT CABLES	CONDUIT, 3", 725.04	CONDUIT, JACKED OR DRILLED, 725.04, 3"	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	TRENCH	PULL BOX, 725.08, 18"	PULL BOX REMOVED	GROUND ROD	POWER SERVICE, AS PER PLAN	PLASTIC CAUTION TAPE	LIGHT TOWER REMOVED	LUMINAIRE REMOVED	POWER SERVICE REMOVED	POWER SERVICE REMOVED, AS PER PLAN	LIGHT TOWER FOUNDATION REMOVED	DISCONNECT CIRCUIT	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	STRAIN POLE FOUNDATION	COMBINATION STRAIN POLE, TYPE TC-81.10, DESIGN 5, AS PER PLAN
					EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	FT	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH	FT	EACH	EACH
66	1	D	675698	1368143	2			1	1				180					1					1										
	2	D												384						374					374								
	3	D	675697	1368517	2			1	1				180					1					1										
	4	D												366						356					356								
	5	D	675696	1368873	2			1	1				180					1					1										
	6	D												344						334					334								
	7	D	675694	1369207	2			1	1				180					1					1										
	8	D												332						322					322								
	9	D	675694	1369529	2			1	1				180					1					1										
	10	D												91						86					86								
	11	D	675717	1368721																						1	4			1			
	12	D	675714	1369330																						1	4			1			
	13	E	675498	1368919	2			1	1				180					1					1										
	14	E												505						495					495								
	15	E	675478	1369413	2			1	1				180					1					1										
	16	E												186						176					176								
	17	E	675456	1369587	2			1	1				180					1					1										
	18	E												31						26					26								
	19	E	675468	1369085																						1	4			1			
	20	E	675432	1369578																						1	4			1			
67	1	D												1086						1081					1081								
	2	D	676103	1370589			3														1												
	3	D									159						48																
	4	D									276						82																
	5	D	676021	1370585			3														1												
	6	D												37						27					27								
	7	D	675995	1370584	2			1	1				180					1					1										
	8	D	675736	1369832																						1	4			1			
	9	D	675668	1369857																		1											
	10	D	675732	1370389																							6			1			
	11	E												123						118					118								
	12	E	675430	1369728			3														1												
	13	E												65						55					55								
	14	E	675417	1369782	2			1	1				180					1					1										
	15	E												820						810					810								
	16	E	675057	1370493			3														1												
	17	E									237						14																
	18	E									171						47																
	19	E	675475	1369739			3														1												
	20	E												37						27					27								
	21	E	675491	1369761	2			1	1				180					1					1										
	22	E												67						57					57								
	23	E	675012	1370527	2			1	1				180					1					1										
	24	E	675477	1369708																		1											
	25	E	675381	1370157																						1	6			1			
	26	E	675188	1370507																						1	4			1			
TOTALS CARRIED TO SHEET NO. 57					24	0	15	12	12	0	843	0	2160	4474	0	0	251	12	0	4344	5	2	12	0	4344	8	36	0	0	8	0	0	0	0

SHEET NO.	REFERENCE NO.	CIRCUIT	COORDINATES		625																								632			
			NORTHING	EASTING	CONNECTION, FUSED PULL APART	CONNECTION, FUSED PULL APART, AS PER PLAN	CONNECTION, UNFUSED PERMANENT	LIGHT POLE, CONVENTIONAL, AT20B40	LIGHT POLE FOUNDATION, 24" X 8' DEEP	BRACKET ARM, 20'	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 6 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 10 AWG POLE AND BRACKET CABLE	1-1/2" DUCT CABLE WITH THREE NO.4 AWG 2400 VOLT CABLES	1-1/2" DUCT CABLE WITH THREE NO.6 AWG 2400 VOLT CABLES	CONDUIT, 3", 725.04	CONDUIT, JACKED OR DRILLED, 725.04, 3"	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	TRENCH	PULL BOX, 725.08, 18"	PULL BOX REMOVED	GROUND ROD	POWER SERVICE, AS PER PLAN	PLASTIC CAUTION TAPE	LIGHT TOWER REMOVED	LUMINAIRE REMOVED	POWER SERVICE REMOVED	POWER SERVICE REMOVED, AS PER PLAN	LIGHT TOWER FOUNDATION REMOVED	DISCONNECT CIRCUIT	MESSENGER WIRE, 7 STRAND, 1/4" DIAMTER WITH ACCESSORIES, AS PER PLAN	STRAIN POLE FOUNDATION	COMBINATION STRAIN POLE, TYPE TC-81.10, DESIGN 5, AS PER PLAN
					EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH	FT	EACH	EACH
68	1	D									219						68																
	2	D	676124	1370701			3														1												
	3	D												378						368				368									
	4	D	675947	1371009			3														1												
	5	D												514						504				504									
	6	D	675719	1371452	2			1	1				180					1					1										
	7	D												45						35				35									
	8	D	675711	1371485			3														1												
	9	D												133						128				128									
	10	D												19						9				9									
	11	D	676133	1370700	2			1	1				180					1					1										
	12	D									180					45																	
	13	D	675985	1371043																			1										
	14	D									165						45																
	15	D	675668	1371476			3														1												
	16	D												32						22				22									
	17	D	675647	1371472	2			1	1				180					1					1										
	18	D																							1	4		1				
	19	D	675976	1371043																							1			1			
	20	D	675761	1371198																		1											
	21	D	675667	1371200																					1	6		1					
	22	E									261						82																
	23	E	675057	1370649			3														1												
	24	E												167						157				157									
	25	E	675130	1370788			3														1												
	26	E												892						887				887									
	27	E									264						78																
	28	E	675135	1370649			3														1												
	29	E												27						17				17									
	30	E	675144	1370635	2			1	1				180					1					1										
	31	E									150					35																	
	32	E	675092	1370813																			1										
	33	E	675104	1370815																							1			1			
	34	E	675299	1370900																		1											
	35	E	675362	1370810																					1	6		1					
69	1	D												41						36				36									
	2	D	675684	1371646	2			1	1				180					1					1										
	3	D												185						175				175									
	4	D	675666	1371820	2			1	1				180					1					1										
	5	D												543						533				533									
	6	D	675654	1372353	2			1	1				180					1					1										
	7	D	675692	1371764																					1	4		1					
	8	D	675674	1372366																					1	4		1					
	9	E												39						34				34									
	10	E	675448	1371664	2			1	1				180					1					1										
	11	E												332						322				322									
	12	E	675450	1371986	2			1	1				180					1					1										
	13	E												344						334				334									
	14	E	675455	1372320	2			1	1				180					1					1										
	15	E												366						356				356									
	16	E	675463	1372676	2			1	1				180					1					1										
	17	E												384						374				374									
	18	E	675469	1373050	2			1	1				180					1					1										
	19	E	675420	1371668																					1	4		1					
	20	E	675427	1372173																					1	4		1					
	21	E	675440	1372670																					1	4		1					
TOTALS CARRIED TO SHEET NO. 57					24	0	21	12	12	0	1239	0	2160	4441	0	80	273	12	0	4291	7	2	12	2	4291	8	36	2	0	8	2	0	0	0

LIGHTING QUANTITIES

CALCULATED PJD
CHECKED SNS

PRE-70-0.00

SHEET NO.	REFERENCE NO.	CIRCUIT	COORDINATES		625																									632		
					CONNECTION, FUSED PULL APART	CONNECTION, FUSED PULL APART, AS PER PLAN	CONNECTION, UNFUSED PERMANENT	LIGHT POLE, CONVENTIONAL, AT20B40	LIGHT POLE FOUNDATION, 24" X 8' DEEP	BRACKET ARM, 20'	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 6 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 10 AWG POLE AND BRACKET CABLE	1-1/2" DUCT CABLE WITH THREE NO.4 AWG 2400 VOLT CABLES	1-1/2" DUCT CABLE WITH THREE NO.6 AWG 2400 VOLT CABLES	CONDUIT, 3", 725.04	CONDUIT, JACKED OR DRILLED, 725.04, 3"	LUMINAIRE, CONVENTIONAL SOLID STATE (LED), AS PER PLAN	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN	TRENCH	PULL BOX, 725.08, 18"	PULL BOX REMOVED	GROUND ROD	POWER SERVICE, AS PER PLAN	PLASTIC CAUTION TAPE	LIGHT TOWER REMOVED	LUMINAIRE REMOVED	POWER SERVICE REMOVED	POWER SERVICE REMOVED, AS PER PLAN	LIGHT TOWER FOUNDATION REMOVED	DISCONNECT CIRCUIT	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN	STRAIN POLE FOUNDATION	COMBINATION STRAIN POLE, TYPE TC-81.10, DESIGN 5, AS PER PLAN
			NORTHING	EASTING	EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	FT	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH	FT	EACH	EACH
70	1	F	675773	1393545	2			1	1				180					1					1										
	2	F													385					375					375							
	3	F	675786	1393919	2					1			150					1					1									1	1
	4	F										1098																		356		
	5	F	675782	1394275	2					1			60					1					1									1	1
	6	F										1032																		334		
	7	F	675786	1394609	2					1			60					1					1									1	1
	8	F										1032																		334		
	9	F	675791	1394943	2					1			150					1					1									1	1
	10	F												58						53				53								
	11	F	675593	1393861	2			1	1				174					1					1										
	12	F													323					313				313								
	13	F	675576	1394171	2					1			150					1					1									1	1
	14	F										555																		175		
	15	F	675566	1394345	2					1			54					1					1									1	1
	16	F										555																		175		
	17	F	675560	1394519	2					1								1					1									1	1
	18	F										555																		175		
	19	F	675557	1394693	2					1			54					1					1									1	1
	20	F										615																		195		
	21	F	675555	1394888	2					1			150					1					1									1	1
	22	F												60						50				50								
	23	F	675554	1394938			3														1											
	24	F									153						41															
	25	F	675595	1394938			3														1											
	26	F												62						57				57								
71	1	F												218						213				213								
	2	F	675823	1395203			3														1											
	3	F									279						78															
	4	F, G	675893	1395168																					1							
	5	G												564						554				554								
	6	G	676209	1395609			3														1											
	7	G									216						62															
	8	G	676209	1395671			3														1											
	9	G												15						5				5								
	10	G	676209	1395676	2			1	1				180					1					1										
	11	G												704						699				699								
	12	G									390						120															
	13	G	676089	1395612			3														1											
	14	G												15						5				5								
	15	G	676084	1395612	2			1	1				180					1					1										
	16	F									162						44															
	17	F	675784	1395222			3														1											
	18	F									609						193															
	19	F	675592	1395220			3														1											
	20	F												230						225				225								
	21	F												532						522				522								
	22	F	675234	1395595			3														1											
	23	F									297						89															
	24	F	675146	1395604			3														1											
	25	F												26						16				16								
	26	F	675131	1395606	2			1	1				180					1					1										
	27	F									207						59															
	28	F	675240	1395653			3														1											
	29	F												21						11				11								
	30	F	675241	1395653	2			1	1				180					1					1										
TOTALS CARRIED TO SHEET NO. 57					30	0	33	6	6	9	2313	5442	1902	2505	708	0	686	15	0	3098	11	0	15	1	3098	0	0	0	0	0	0	1744	9	9

CALCULATED PJD CHECKED SNS

LIGHTING QUANTITIES

PRE-70-0.00

LIGHTING QUANTITIES

CALCULATED PJD CHECKED SNS

SHEET NO.	REFERENCE NO.	CIRCUIT	COORDINATES NORTHING	COORDINATES EASTING	CONNECTION, FUSED PULL APART EACH	CONNECTION, FUSED PULL APART, AS PER PLAN EACH	CONNECTION, UNFUSED PERMANENT EACH	LIGHT POLE, CONVENTIONAL, AT20B40 EACH	LIGHT POLE FOUNDATION, 24" X 8' DEEP EACH	BRACKET ARM, 20' EACH	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE FT	NO. 6 AWG 2400 VOLT DISTRIBUTION CABLE FT	NO. 10 AWG POLE AND BRACKET CABLE FT	1-1/2" DUCT CABLE WITH THREE NO.4 AWG 2400 VOLT CABLES FT	1-1/2" DUCT CABLE WITH THREE NO.6 AWG 2400 VOLT CABLES FT	CONDUIT, 3", 725.04 FT	CONDUIT, JACKED OR DRILLED, 725.04, 3" FT	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN EACH	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN EACH	TRENCH FT	PULL BOX, 725.08, 18" EACH	PULL BOX REMOVED EACH	GROUND ROD EACH	POWER SERVICE, AS PER PLAN EACH	PLASTIC CAUTION TAPE FT	LIGHT TOWER REMOVED EACH	LUMINAIRE REMOVED EACH	POWER SERVICE REMOVED EACH	POWER SERVICE REMOVED, AS PER PLAN EACH	LIGHT TOWER FOUNDATION REMOVED EACH	DISCONNECT CIRCUIT EACH	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN FT	STRAIN POLE FOUNDATION EACH	COMBINATION STRAIN POLE, TYPE TC-81.10, DESIGN 5, AS PER PLAN EACH
																		625															632		
72	1	G												121						116					116										
	2	G	675816	1396413	2			1	1				174					1						1											
	3	G												93						83					83										
	4	G	675800	1396494			3														1														
	5	G												125						115					115										
	6	G	675782	1396608	2					1			150					1						1										1	1
	7	G										555																					175		
	8	G	675763	1396782	2					1			60					1						1										1	1
	9	G										630																					200		
	10	G	675753	1396981	2					1			60					1						1										1	1
	11	G										861																					277		
	12	G	675750	1397258	2					1			60					1						1										1	1
	13	G									195						55															277		
	14	G	675746	1396494			3														1														
	15	G									663						211																		
	16	G	675535	1396494			3														1														
	17	G												207						197					197										
	18	G	675544	1396691	2					1			150					1						1										1	1
	19	G										960																					310		
	20	G	675548	1397001	2					1			60					1						1										1	1
	21	G										1032																					334		
	22	G	675554	1397335	2					1			60					1						1										1	1
	23	G										1245																					405		
	24	G	675558	1397740	2					1			60					1						1										1	1
	25	G												71						61					61										
	26	G	675746	1396434	2			1	1				180					1						1											
	TOTALS FROM SHEET 51				0	20	9	0	0	0	810	0	0	4061	0	30	205	8	2	4001	2	2	0	1	4001	10	10	0	1	0	1	0	0	0
	TOTALS FROM SHEET 52				20	0	12	10	10	0	990	0	1800	3306	0	50	245	10	0	3246	4	0	10	1	3246	0	0	0	0	0	0	0	0	0
	TOTALS FROM SHEET 54				24	0	15	12	12	0	843	0	2160	4474	0	0	251	12	0	4344	5	2	12	0	4344	8	36	0	0	8	0	0	0	0
	TOTALS FROM SHEET 55				24	0	21	12	12	0	1239	0	2160	4441	0	80	273	12	0	4291	7	2	12	2	4291	8	36	2	0	8	2	0	0	0
	TOTALS FROM SHEET 56				30	0	33	6	6	9	2313	5442	1902	2505	708	0	686	15	0	3098	11	0	15	1	3098	0	0	0	0	0	0	1744	9	9
	TOTALS THIS SHEET				20	0	9	2	2	8	858	5283	1014	617	0	0	266	10	0	572	3	0	10	0	572	0	0	0	0	0	0	1978	8	8
	TOTALS CARRIED TO GENERAL SUMMARY				118	20	99	42	42	17	7053	10725	9036	19404	708	160	1926	67	2	19552	32	6	59	5	19552	16	82	2	1	16	3	3722	17	17

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