2. PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THE DEPARTMENT DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES, INCLUDING SPRINKLER SYSTEMS, EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL ALSO VERIFY THE DEPTHS OF THE EXISTING UTILITIES IF NECESSARY TO VERIFY THAT GRADE CONFLICTS WILL NOT OCCUR WITH ANY PROPOSED UTILITIES PRIOR TO CONSTRUCTION AND ORDERING ANY MATERIALS. ANY RELOCATION OR LOWERING OF UTILITIES SHALL BE COORDINATED BY THE CONTRACTOR. THE COST OF THIS EXPLORATION SHALL BE INCLUDED IN THE COST OF THE PROPOSED UTILITY CONSTRUCTION.

THE CONTRACTOR SHALL NOTIFY THE CITY PUBLIC WORKS ADMINISTRATOR AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK TO OBTAIN CITY UTILITY LOCATIONS.

4. THE ENGINEER WILL FURNISH A RESIDENT PROJECT REPRESENTATIVE (RPR) TO ASSIST THE ENGINEER IN PROVIDING JOB-SITE OBSERVATION OF THE CONTRACTOR'S WORK. THE RPR WILL PROVIDE BASE LINES, BENCHMARKS AND REFERENCE POINTS, ASSIST THE CONTRACTOR WITH INTERPRETATION OF THE PLANS AND SPECIFICATIONS, OBSERVE IN GENERAL IF THE CONTRACTOR'S WORK IS IN CONFORMITY WITH THE CONTRACT DOCUMENTS, AND MONITOR THE CONTRACTOR'S PROGRESS AS RELATED TO THE DATE OF COMPLETION. THE LIMITATIONS ON AUTHORITY AND RESPONSIBILITY OF THE ENGINEER SHALL ALSO APPLY TO THE ENGINEER'S CONSULTANTS, RESIDENT PROJECT REPRESENTATIVE AND ASSISTANTS.

5. THE CONTRACTOR MAY OBTAIN MUNICIPAL WATER IN BULK, AT NO CHARGE, AS LONG AS THERE IS NOT A "WATERING BAN" IN EFFECT. THE INDISCRIMINATE USE OF FIRE HYDRANTS IS STRICTLY PROHIBITED. WATER FOR CONSTRUCTION SHALL BE METERED OR OTHERWISE ACCOUNTED FOR AND A DAILY LOG MAINTAINED. THE CONTRACTOR SHALL PROVIDE THE WATER TRUCK AND DRIVER REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE CITY RESERVES THE RIGHT TO RESTRICT OR REFUSE THE USE OF CITY WATER IF DEEMED NECESSARY.

 THE CONTRACTOR SHALL CONTACT THE LOCAL AGENCY MATERIAL INSPECTOR AT LEAST 48 HOURS PRIOR TO ANY CONCRETE OR HOT-MIX ASPHALT MATERIAL DELIVERIES.

7. DETECTABLE WARNINGS SHALL BE CONSTRUCTED WITH THE INSTALLATION OF A CAST-IN-PLACE EAST JORDAN OR NEENAH DETECTABLE WARNING. PANELS SHALL BE CAST IRON AND COMPLY WITH ADA REQUIREMENTS. THE DOMES LOCATED ON THE PANEL SHALL PARALLEL THE PAVEMENT CROSS WALK WITH THE CLOSEST EDGE LOCATED AT THE BACK OF CURB. THE PANEL COLOR SHALL BE RED. INSTALLATION SHALL OCCUR IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

8. THE COST OF MAKING SEWER CONNECTIONS TO EXISTING DRAINAGE STRUCTURES OR PIPE SHALL BE INCLUDED IN THE COST OF THE NEW SEWER OR STRUCTURE. ANY ADDITIONAL STORM SEWER PIPE REQUIRED TO MAKE THE CONNECTION SHALL BE OF THE SAME SIZE AND MATERIAL TYPE AS THE EXISTING STORM SEWER AND SHALL BE INCLUDED IN THE COST OF THE SEWER OR STRUCTURE.

IF ANY STORM SEWER LATERALS ARE FOUND DURING CONSTRUCTION AND ARE NOT IDENTIFIED ON THE PLANS, THEY SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM AND INCLUDED IN THE COST OF THE STORM SEWER CONSTRUCTION.

10. STORM STRUCTURE OFFSET LOCATIONS ARE TO THE EDGE OF PAVEMENT IF THE STRUCTURE IS IN THE CURB LINE OR TO THE CENTER OF STRUCTURE IF THE STRUCTURE IS NOT IN THE CURBLINE.

11. IN ALL TRENCHES CROSSING DRIVEWAYS, SIDEWALKS, AND ALL PROPOSED AND EXISTING ROADWAYS, THE MATERIAL FOR THE TOP 12 INCHES SHALL BE CA-6 CRUSHED GRAVEL OR CRUSHED STONE AND BE INCLUDED IN THE PAY ITEM FOR TRENCH BACKFILL.

12. FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES SHALL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF COST OF THE STRUCTURE.

13. A PORTABLE BATHROOM(S) SHALL BE PLACED ON THE JOB SITE(S) AND RELOCATED WHEN NECESSARY SO IT IS ACCESSIBLE TO WORKERS. IF WORK IS OCCURRING AT SEVERAL LOCATIONS, ONE PORTABLE BATHROOM SHALL BE PLACED AT EACH LOCATION WITHIN A REASONABLE DISTANCE FROM THE WORK AS DETERMINED BY THE ENGINEER. THIS SHALL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION.

14. FOR STEEL BARS CERTIFICATION, PLEASE CONTACT IDOT BUREAU OF MATERIALS AT (847) 705-4337.

15. ALL STRUCTURAL STEEL, REBAR AND DECORATIVE FENCING INCORPORATED IN THE WORK SHALL BE DOMESTICALLY MANUFACTURED OR PRODUCED AND FABRICATED.

16. ALL AGGREGATE USED ON THIS PROJECT SHALL BE CRUSHED MATERIAL.

17. COMED OVERHEAD TRANSMISSION LINES EXIST OVER THE MATHON AVENUE BRIDGE. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH COMED.

18. FRAMES AND GRATES OR LIDS THAT ARE REMOVED AS PART OF ADJUSTMENTS OR REMOVALS SHALL BE DELIVERED TO THE CITY PUBLIC WORKS FACILITY.

19. IT IS THE CONTRACTOR'S RESPONSIBLY TO COORDINATE WITH THE UNION PACIFIC RAILROAD AND OR CANADIAN NATIONAL RAILROAD WHENEVER CONSTRUCTION ACTIVITY IS WITHIN 25 FEET OF THE RAILROAD RIGHT-OF-WAY. THE CONTRACTOR SHALL RETAIN FLAGMEN EMPLOYED AND DESIGNATED BY THE UNION PACIFIC RAILROAD TO MONITOR ON-COMING TRAIN TRAFFIC, AND ADVISE CONTRACTOR PERSONNEL WHEN ACTIVITY ON OR NEAR THE RAILROAD RIGHT-OF-WAY MAY PROCEED. THIS ITEM WILL BE PAID FOR ACCORDING TO ARTICLE 109.15.

20. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT 847-705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

 ALL SIGNS, CONCRETE POLES AND STEEL POSTS THAT ARE REMOVED SHALL BE DELIVERED TO TOM HAGGERTY OF THE CITY PUBLIC WORKS FACILITY.

22. THE ILLINOIS DEPARTMENT OF TRANSPORTATION IS NOT THE OWNER OF RECORD FOR THIS BRIDGE. THOSE SEEKING HISTORIC AS-BUILT OR OTHER RECORD PLANS AND DOCUMENTS MUST CONTACT THE OWNER OF RECORD TO MAKE ARRANGEMENTS FOR ACCESS TO THIS INFORMATION.

RAILROAD GENERAL NOTES

1. WITHIN THESE NOTES, THE UNION PACIFIC RAILROAD SHALL BE REFERRED TO AS THE "RAILROAD".

A CONTRACTOR'S RIGHT-OF-ENTRY PERMIT IS REQUIRED BEFORE ANY WORK CAN COMMENCE ON RAILROAD PROPERTY.
THE COST TO OBTAIN THIS PERMIT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

3. NO DISRUPTIONS OF RAILROAD OPERATIONS WILL BE PERMITTED.

4. ALL WORK WITHIN 25 FEET OF THE NEAREST TRACK WILL REQUIRE A RAILROAD FLAGMAN. TO SCHEDULE A FLAGMAN FOR WORK ON A COMMUTER LINE, CALL CANDICE MILLER AT (312) 496-4738, A MINIMUM 72 HOURS IN ADVANCE OF START OF WORK. TO SCHEDULE A FLAGMAN FOR WORK ON FREIGHT LINES, CALL DARYL CLARK AT (708) 649-5273, A MINIMUM OF 72 HOURS IN ADVANCE OF START OF WORK.

5. WORK WINDOWS WITHIN THE 25 FOOT ZONE ARE ONLY AVAILABLE FROM 9:00 AM - 3:00 PM.

6. MONDAY THROUGH FRIDAY. NIGHT WORK WINDOWS ARE AVAILABLE FROM 8:00 PM - 4:00 AM. PLEASE PROVIDE AT LEAST 72 HOURS OF ADDITIONAL NOTICE WHEN REQUESTING TO WORK AT NIGHT TO ENSURE APPROPRIATE FLAGGING COVERAGE. EXTENDED WORK WINDOWS MAY BE AVAILABLE ON THE WEEKENDS. NOT WITHSTANDING THE FORGOING, DUE TO INTERSTATE FREIGHT TRAIN AND COMMUTER PASSENGER TRAIN OPERATIONS AND SCHEDULES ALL WORK WINDOWS WITHIN THE TIMES LISTED ABOVE ARE SUBJECT TO ON SITE UNILATERAL ADJUSTMENT OR DENIAL FROM THE RAILROAD'S LOCAL FIELD MANAGER AND/OR CORRIDOR MANAGER. THIS MAY RESULT IN DENIAL OR ADJUSTMENT OF ACCESS FOR ANY AND ALL CONTRACTORS, SUBCONTRACTORS AND MATERIAL MEN DURING WORK WINDOWS.

7. NO UN-USED WORK EQUIPMENT WILL BE ALLOWED TO REMAIN ON THE RAILROAD'S COMMUTER PLATFORM IF PRESENT.

8. RAILROAD UTILITIES ARE NOT INCLUDED UNDER JULIE, CALL CANDICE MILLER AT (312) 496-4738 FOR LOCATES.

 FIBER OPTICS MAY BE PRESENT IN THIS AREA. CALL (800) 336-9193 TO COORDINATE ANY REQUIRED PROTECTION OR RELOCATION, PRIOR TO CONSTRUCTION.

10. RAILROAD REVIEW AND APPROVAL OF SHORING, DEMOLITION, ERECTION, AND FALSEWORK IS REQUIRED.

11. ERECTION OVER THE RAILROAD'S RIGHT-OF-WAY SHALL BE DESIGNED TO CAUSE NO INTERRUPTIONS TO RAILROAD'S OPERATIONS. ERECTION OVER THE RAILROAD'S TRACK SHALL BE DEVELOPED SUCH THAT IT ENABLES THE TRACKS(S) TO REMAIN OPEN TO TRAIN TRAFFIC PER RAILROAD'S REQUIREMENTS.

12. MINIMUM CONSTRUCTION CLEARANCE ENVELOPE OF 21 FEET VERTICAL ABOVE THE PLANE OF TOP-OF-RAIL AND 12 FEET HORIZONTAL AT RIGHT ANGLE FROM CENTERLINE OF TRACK SHALL BE MAINTAINED AT ALL TIME DURING CONSTRUCTION.

13. FALSEWORK CLEARANCE SHALL COMPLY WITH THE RAILROAD'S MINIMUM CONSTRUCTION CLEARANCE ENVELOPE,

14. FOR RAILROAD COORDINATION PLEASE REFER TO THE RAILROAD MINIMUM REQUIREMENTS AS PART OF SPECIAL PROVISIONS.

15. THE CONTRACTOR MUST SUBMIT A PROPOSED METHOD OF EROSION AND SETTLEMENT CONTROL AND HAVE THE METHOD APPROVED BY THE RAILROAD.

S. THE PROPOSED GRADE SEPARATION PROJECT SHALL NOT CHANGE THE QUANTITY AND/OR CHARACTERISTICS OF THE FLOW IN THE RAILROAD DITCHES AND/OR DRAINAGE STRUCTURES.

17. THE ELEVATION OF THE EXISTING TOP-OF-RAIL PROFILE SHALL BE VERIFIED BEFORE BEGINNING CONSTRUCTION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE RAILROAD PRIOR TO CONSTRUCTION

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
420101-04	24' (7.2 m) JOINTED PCC PAVEMENT
420111-03	PCC PAVEMENT ROUNDOUTS
420401-10	BRIDGE APPROACH PAVEMENT CONNECTOR
420601-05	24' (7.2 m) PCC PAVEMENT
421001-02	BAR RENFORCEMENT FOR CRC PAVEMENT
424001-07	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-01	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-01	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424031-01	MEDIAN PEDESTRIAN CROSSINGS
515001-03	NAME PLATE FOR BRIDGES
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
602001-02	CATCH BASIN TYPE A
602301-04	NLET - TYPE A
602401-03	MANHOLE TYPE A
602406-06	MANHOLE TYPE A 6' DIAMETER
602601-03	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS TYPE 1
604051-03	FRAME AND GRATE TYPE 11
604091-02	FRAME AND GRATE TYPE 24
606001-05	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-09	TRAFFIC BARRIER TERMINAL, TYPE 2
631026-05	TRAFFIC BARRIER TERMINAL, TYPE 5
631031-12	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-01	DELINEATORS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
664001-02	CHAIN LINK FENCE
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701101-04	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701456-03	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-03	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-04	-TYPICAL PAYEMENT MARKINGS
05001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-02	HANDHOLES
\$ 10211b1 11	LUMINAIRE WIRING DIAGRAM X
> -825021-02	LIGHTING CONTROLLER BASE MOUNTED, 240V

INDEX TO SHEETS

SHEET NO.

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	3 -7	SUMMARY OF QUANTITIES
	8 - 9	TYPICAL SECTIONS
	10	SUGGESTED MAINTENANCE OF TRAFFIC GENERAL NOTES
	11	SUGGESTED MAINTENANCE OF TRAFFIC DETOUR ROUTE
	12	GEOMETRIC PLAN AND PROFILE: MATHON DRIVE
	13 - 14	GEOMETRIC PLAN AND PROFILE: PERSHING ROAD
	15	EROSION CONTROL PLAN
	16	DRAINAGE AND UTILITY MATHON DRIVE
	17 -18	DRAINAGE AND UTILITY PERSHING ROAD
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	20	LIGHTING GENERAL NOTES, QUANTITIES AND ONE-LINE DIAGRAM
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	25-29	LIGHTING DETAILS
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7		ELECTRIC SERVICE INSTALLATION AERIAL REMOTE DISCONNECT (BE-220)
	80	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWA
		(TC-10)
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	82	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16)
	83	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS (TC-21)
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1	85 -88	CROSS SECTIONS PERSHING ROAD
	(25A	LIGHTING DETAILS

BENCHMARKS

DATUM IS NAV 88

BM*2 "X" ON CONCRETE ISLAND WITH STOP SIGN AT SOUTHWEST CORNER OF GRAND AVENUE AND PERSHING ROAD. ELEV = 617.85

BM*3 "X" ON CONCRETE ISLAND (LOCATED ON THE SOUTH SIDE OF GRAND AVENUE DIRECTLY OVER THE CENTER OF AMSTUTZ EXPRESSMAY.

BM=4 CHISEL SQUARE ON TOP OF SOUTHWEST BRIDGE ABUTMENT ON THE SOUTH SIDE OF GRAND AVENUE OVER RAILROAD YARD JUST EAST OF AMSTUTZ EXPRESSWAY. ELEV = 628.05

BM*6 CHISEL SQUARE ON NORTHEAST BRIDGE ABUTMENT NORTH SIDE OF GRAND AVENUE OVER RAILROAD AT NORTHWEST CORNER OF PERSHING ROAD. ELEV = 619.68

BM *8 SOUTH OF THE NORTHEAST BOLTS AT BASE OF COM-ED TOWER AT BASE OF SLOPE ON WEST SIDE OF PERSING ROAD APPROX. 450' NORTH OF GRAND AVENUE. ELEV = 597.44

BM=10 RAILROAD SPIKE IN POWER POLE WITH LIGHT AT SOUTHWEST CORNER OF PERSHING ROAD AND CLAYTON STREET ELEV = 589,01

BM*1015 ACM MONUMENT WK 107 AT SOUTHEAST CORNER OF GRAND AVENUE AND SHERIDAN ROAD IN BRICK SIDEWALK WITH ENCLOSURE. ELEV = 633.75

BA

2014 NOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

ETS, TYPE A, TYPE 11 FRAME AND GRATE	UNIT	TOTAL QUANTITY	ROAI 00 STU	OWAY 04 STP-BR	BRIDGE 0014 STP-BR	-	CODE NUMBER	пем	UNIT	TOTAL QUANTITY	STU ROAL	DWAY 04 STP-BR	BRIDGE 0014
ETS, TYPE A, TYPE 11 FRAME AND GRATE	5100											011 011	STP-BR
	EACH	5	5				66300105	CALCIUM CHLORIDE APPLIED	TON	3	2	1	
42						4.1				A ~~	400		
ETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	2	j ± 3	2		- 1	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	△ 400	400	, -	•
TCH BASINS TO BE ADJUSTED	EACH	2	2			*	66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	1	•	15
NHOLES TO BE ADJUSTED	EACH	2	2	-			66900530	SOIL DISPOSAL ANALYSIS	EACH	A (2)	2) .	. *
LVE BOXES TO BE ADJUSTED	EACH	1	1		-		67000400	ENGINEER'S FIELD OFFICE, TYPE A	CALMO	11	2	1	8
MOVING MANHOLES	EACH	1	1	•			67100100	MOBILIZATION	LSUM	1	0.17	0.05	0.78
MOVING INLETS	EACH	5	3	2			72000100	SIGN PANEL - TYPE 1	SQFT	78	56	22	-
MBNATION CONCRETE CURB AND GUTTER, TYPE 8-6.12	FOOT	1,932	1,865	67			72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	8	5	3	-
MBNATION CONCRETE CURB AND GUTTER, TYPE 8-6-24	FOOT	40)(#)	40.0			72400310	REMOVE SIGN PANEL - TYPE 1	SQFT	18	18	≥ 5//	
EEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	826	763	63	-		72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	192	144	48	
AFFIC BARRIER TERMINAL, TYPE 5	EACH	1	ŭ≨l	1			78005100	EPOXY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQFT	148	2	148	
NFFIC BARRIER TERMINAL, TYPE 6	EACH	2		2			78005110	EPOXY PAVEMENT MARKING - LINE 4*	FOOT	3,744	1,580	2,164	-
AFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1				78005130	EPOXY PAVEMENT MARKING - LINE 6"	FOOT	363		363	
ARDRAIL REMOVAL	FOOT	1,280	1,159	121			78005150	EPOXY PAVEMENT MARKING - LINE 12*	FOOT	357	,	357	
MOVE AND REERECT STEEL PLATE BEAM GUARDRAL, TYPE A	FOOT	25	25				78005180	EPOXY PAVEMENT MARKING - LINE 24"	FOOT	63	31	32	
NI N	CH BASINS TO BE ADJUSTED HOLES TO BE ADJUSTED PE BOXES TO BE ADJUSTED DVING MANHOLES DVING MANHOLES BINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 BINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 BINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 EL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS FICE BARRIER TERMINAL, TYPE 5 FICE BARRIER TERMINAL, TYPE 6 FICE BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH HOLES TO BE ADJUSTED EACH PEROXES TO BE ADJUSTED EACH DVING MANHOLES EACH DVING MANHOLES EACH DVING MANHOLES EACH EACH	CHE BASINS TO BE ADJUSTED EACH 2 EACH 2 EACH 1 EACH 1 EACH 1 DVING MANHOLES EACH 1 DVING NULTS EACH 5 BINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 EINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 EINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 EINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 FOOT 40 ELPLATE BEAM GUARDRAL, TYPE A, 9 FOOT POSTS FOOT 826 FFC BARRIER TERMINAL, TYPE 5 EACH 1 FFC BARRIER TERMINAL, TYPE 6 EACH 2 FFC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT EACH 1 RDRAL REMOVAL FOOT 1.280	EACH 2 2 HOLES TO BE ADJUSTED EACH 2 2 HOLES TO BE ADJUSTED EACH 2 2 EBOXES TO BE ADJUSTED EACH 1 1 DVING MAINHOLES EACH 1 1 DVING MAINHOLES EACH 1 1 DVING NUETS EACH 5 3 BINATON CONCRETE CURB AND GUTTER, TYPE B-6.12 FOOT 1,892 1,865 BINATON CONCRETE CURB AND GUTTER, TYPE B-6.24 FOOT 40	CLES TO BE ADJUSTED EACH 2 2 - COLES TO BE ADJUSTED EACH 2 2 - COLES TO BE ADJUSTED EACH 2 2 - COLES TO BE ADJUSTED EACH 1 1 1 - COVER BOXES TO BE ADJUSTED EACH 1 1 1 - COVER MANHOLES EACH 1 1 1 - COVER MANHOLES EACH 5 3 2 BRATTON CONCRETE CURB AND GUTTER, TYPE B-6.12 BRATTON CONCRETE CURB AND GUTTER, TYPE B-6.12 BRATTON CONCRETE CURB AND GUTTER, TYPE B-6.24 FOOT 40 - 40.0 CLE LATE BEAM GUARDRAL, TYPE A, 9 FOOT POSTS FOOT 5 CACH 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	EACH 2 2	HASANS TO BE ADJUSTED	EACH 2 2 2 66900300 EGOXESTO BE ADJUSTED EACH 2 2 2 67000400 EGOXESTO BE ADJUSTED EACH 1 1 1 67000400 EGOXESTO BE ADJUSTED EACH 5 3 2 2 70000400 EGOXESTO BE ADJUSTED EACH 5 3 2 2 70000400 EGOXESTO BE ADJUSTED EACH 5 3 2 2 70000400 EGOXESTO BE ADJUSTED EACH 5 3 2 2 70000400 EGOXESTO BE ADJUSTED EACH 5 3 2 2 70000400 EGOXESTO BE ADJUSTED EACH 5 3 2 2	MANNET TO BE ADJUSTED	MANISTORE AQUISTED	MARRIET TORRE ADJUSTED	MARKET TERMINAL, TYPE & MARKET TERMINAL THE MARKET TERMINAL TYPE & MARKET TERMINAL TYPE & MARKET TERMINAL THE MARKET TE	MARIEN TO MAJORITO MAJORITO

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BAXTERSWOODMAN	DESIGNED - DJS	REVISED -5-8-14 PER IDOT REVIEW
	DRAWN - UKB	REVISED -5-16-14 PER IDOT REVIEW
BAXTER WOODMAN	CHECKED - RWL	REVISED A - ADDENOUM 7-34-14
~	DATE - 03/14/14	FILE - 110511_PH2_SHT-S01.dgn

	STATE	OF	ILLINOIS	
DEPART	MENT (DF 1	TRANSPORTATION	

SCALE:

SUMMARY OF QUANTITIES		•	F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
SUMMARY OF	QUANTITIE	:5	3719	12-00239-00-BR	LAKE	88	5
					CONTRAC	T NO. 6	61A57
	STA.	TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED.	AID PROJECT M-	8HM-9003(95	52)

SUMMARY OF QUANTITIES

CODE			TOTAL	ROADW	TRUCTION TYPE CODE	BRIDGE
NUMBER	ITEM	UNIT	QUANTITY	0004 STU	STP-BR	0014 STP-BR
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	132		*	13.
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	0.17	0.05	0.7
X7240200	REMOVE SIGN PANEL ASSEMBLY-TYPE B (SPECIAL)	EACH	1	1.00	-	
X8211000	UNDERPASS LUMINAIRE (SPECIAL)	EACH	8		-	-
XX006653	FENCE (SPECIAL)	FOOT	400	400	-	
XX008367	DECORATIVE LIGHTING UNIT, TYPE "D1"	EACH	A 6	6)		
XX008368	DECORATIVE LIGHTING UNIT, TYPE "D2"	EACH	6		6	
XX008369	DECORATIVE LIGHTING UNIT, TYPE "03"	EACH	4	9		
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQFT	350			350
Z0007510	ENGINEERED BARRIER	SQYD	120	150)		1377
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQFT	50			, 5
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.17	0.05	0,78
Z0018002	DRANAGE SCUPPERS, DS-11	EACH	6			6.0
Z0018800	DRANAGE SYSTEM	L SUM	1	. •		
Z0026407	TEMPORARY SHEET PILING	SQFT	634			634
Z0030850	TEMPORARY INFORMATION SIGNING	SQFT	104	52	52	
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CALMO	11	-11		

CODE	CODE NUMBER ITEM		_		STRUCTION TYPE CODE	
	пем	UNIT	TOTAL QUANTITY	ROADWAY 0004		BRIDGE
		ONI	QUANTITY	STU 0004	STP-BR	0014 STP-BR
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4**	FOOT	220			220
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1		1	•
Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 NCH	FOOT	777	77	-	•
Z0065700	SLOPE WALL REPAIR	SQYD	100		-	100
Z0073410	TEMPORARY SUPPORT SYSTEM, LOCATION 1	EACH	1	-	-	
ZD073420	TEMPORARY SUPPORT SYSTEM, LOCATION 2	EACH	1		-	
Z0076600	TRANEES	HOUR	1,000	1,000	-	
20076804	TRANEES TRAINING PROGRAM GRADUATE	HOUR	1,000	1,000		

NDICATES SPECIALITY ITEM
NDICATES CONSTRUCTION CODE 0042 TRAINEES

	EARTHWORK									
LOCATION	UNDERCUT (CU YD)	UNSUITABLE EXCAVATION (TOPSOIL) (CU YD)	REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL (CU YD)	EARTH EXCAVATION (CU YD)	UTILITY EXCAVATION (CU YD)	EXCESS STRUCTURE EXCAVATION (CU YD)	TOTAL SUITABLE EXCAVATION (CU YD)	EXCAVATION TO BE USED IN EMBANKMENT (15% SHRINKAGE) (CU Y D)		EARTHWORK BALANCE WASTE (- OR SHORTAGE (-) (CU YD)
PERSHING RD	251	170	421	1,302	4)	4	1,302	1,107	102	1,005
MATHON DR	67	39	106	87		218	305	260	2	258
TOTAL	318	209	527	1.389	-	218	1.607	1 367	104	1 263

BAXTER WOODMAN

REVISED -5-8-14 PER IDOT REVIEW
REVISED -5-16-14 PER IDOT REVIEW
REVISED APPENDUM 7-24-14
FILE - 110511_PH2_SHT-SQ1.dgn DESIGNED - DJS DRAWN - UKB CHECKED - RWL

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

COUNTY | TOTAL | SHEET | NO. |

LAKE | 88 | 7 |

CONTRACT | NO. | 61A57 F.A.U. SECTION 3719 12-00239-00-BR SUMMARY OF QUANTITIES SCALE: STA. TO STA.

GENERAL NOTES
THE EXACT LOCATIONS OF ALL UTILITIES SHALL BE VERIFIED BY THE
CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE
LIGHTING SYSTEM. FOR THE LOCATIONS OF THE UTILITIES, CALL JULIE
TOLL FREE AT 1-800-892-0123. IT IS THE CONTRACTOR'S RESPONSIBILITY
TOLL FREE FEVENING, TRACES (SIGNAL CREES AND COMPULES. TO LOCATE EXISTING TRAFFIC SIGNAL CABLES AND CONDUITS.

- EXISTING STREET LIGHTING UNITS (NOTED IN PLANS) TO REMAIN IN OPERATION ARE TO BE MAINTAINED BY THE CONTRACTOR UNTIL NEW STREET LIGHTS ARE OPERATIONAL AND ACCEPTED BY THE CITY.
- ANY DAMAGE TO EXISTING CONDUITS, CONDUCTORS, AND EQUIPMENT TO REMAIN SHALL BE REPAIRED AND/OR REPLACED AT NO COST TO THE DEPARTMENT.
- ANY TURF AND/OR SOIL DISTURBED THAT CANNOT REMAIN OR BE RE-USED SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND INCLUDED IN THE COST OF THE ASSOCIATED PAY ITEM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATING THE FINISHED GRADE ELEVATION WITH THE TOP OF FOUNDATION AND THE LIGHT SHALL REMAIN WITH THE CONTRACTOR.
- 6. ALL DISTURBED AREAS SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER AND INCLUDED IN THE COST OF THE ASSOCIATED PAY ITEM.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR BURIED WARNING TAPE, SPECIFIED AS PART OF "UNDERGROUND RACEWAYS". THE INSTALLATION OF THE TAPE SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO BACKFILLING.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR WIRE MARKERS AND SHALL TAG ALL WIRE ACCORDINGLY.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR GROUNDING. GROUNDING CONNECTIONS AT THE FOUNDATION SHALL BE EXOTHERMICALLY WELDED, AS SPECIFIED, AND SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO BACKFILLING. EQUIPMENT GROUND CONDUCTORS SHALL BE SPULICED AND/OR BONDED AT EACH LIGHT POLE OR OTHER PIECE OF EQUIPMENT.
- CONDUIT AND UNIT DUCT MUST BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH TREES, BUSHES, DRAINS, OTHER UTILITIES, AND LANDSCAPING.
- NO UNDERGROUND SPLICES OR SPLICES IN HANDHOLES WILL BE PERMITTED. ELECTRIC HANDHOLES SHALL BE USED FOR THE PURPOSE OF PULLING CABLES ONLY.
- 12. LIGHTING UNIT SETBACK SHALL BE AS CALLED OUT ON DRAWINGS.
- 13. NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY THE ENGINEER.
- ALL CONDUITS UNDER PROPOSED ROADWAYS AND DRIVEWAYS IN TRENCHES SHALL BE INSTALLED BEFORE PAVEMENT IS PLACED. CONDUIT LENGTHS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE ACTUAL LENGTH REQUIREMENTS IN THE FIELD.
- ALL ELECTRICAL DEVICES AND MATERIALS SHALL BE U/L LISTED WHERE APPLICABLE.

		© PERSCHING ROAD STA 5 © MATHON DRIVE STA 0+				
	C1-A2 STA 56+29	e ————————————————————————————————————		C1-A1 STA 58+53	PERSHING RO	AD
	1.55+00	- 6		k	1 60+00	
			*	*	*	
	LEGEND	ſ				
	SERVICE PEDESTAL	PROPOSED LIGHTING /	/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		C1-B7	
₽	PROPOSED UNDERDECK LIGHTING	STA 57+47	-	STA	59+38 STA 60+9	
X	PROPOSED LIGHTING UNIT TYPE "DI", 86W, 240V LED TYPE III, 30' MH	C1-B1 -/ STA 0+69	PIER	C1-B4 STA 1+24		C1-C7 STA 62+4
₩-	PROPOSED LIGHTING UNIT TYPE "D2", 86W, 240V LED TYPE III, 25' MH	C1-C1 STA 1+22	1	C1-B9		
{ p -	PROPOSED LIGHTING UNIT TYPE "D3", 282W, 240V LED TYPE III, 35' MH		I-B10	∠-C1-C9		
	PROPOSED CONTROLLER	<u></u>	C1-C8-			
Ø	PROPOSED HANDHOLE		PIER	C1-C4 STA 2+54		
0-4	EXISTING STREET LIGHT	C1-B2 STA				
			C1-C10	C1-C11		
			1 1			

C1-B12-

C1-C2 -STA 4+12

C1-B3 STA 5+41

C1-C3 -

- C1-B11

-C1-B5 STA 4+13

MATHON

DRIVE

SCALE: 1"=50"

-C1-C5 STA 5+71

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
80400200	ELECTRIC UTILITY SERVICE CONNECTION	LSUM	1
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	290
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	600
81100320	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	150
81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	802
81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	3
81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	4
81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	4
81400730	HANDHOLE, COMPOSITE CONCRETE	EACH	1
81603100	UNIT DUCT, 600V, 4-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	2165
81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	1305
81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	680
82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP	EACH	1
83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	130
84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	11
84200804	REMOVAL OF POLE FOUNDATION	EACH	8
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1
89502380	REMOVE EXISTING HANDHOLE	EACH	2
X8211000	UNDERPASS LUMINAIRE (SPECIAL)	EACH	8
XX008367	DECORATIVE LIGHTING UNIT, TYPE "D1"	EACH	6
XX008368	DECORATIVE LIGHTING UNIT, TYPE "D2"	EACH	6
XX008369 Z0033028	DECORATIVE LIGHTING UNIT, TYPE "D3" MAINTENANCE OF LIGHTING SYSTEM	EACH CAL MO	4,

BAXTER WOODMAN

Ĭ	DESIGNED	-	MWH	REVISED -7-14-14 ADDENDUM ⚠
	DRAWN	-	UKB	REVISED -5-16-14 PER IDOT REVIE
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	DATE	+	03/14/14	FILE - 110511_PH2_SHT-SL-Diagra

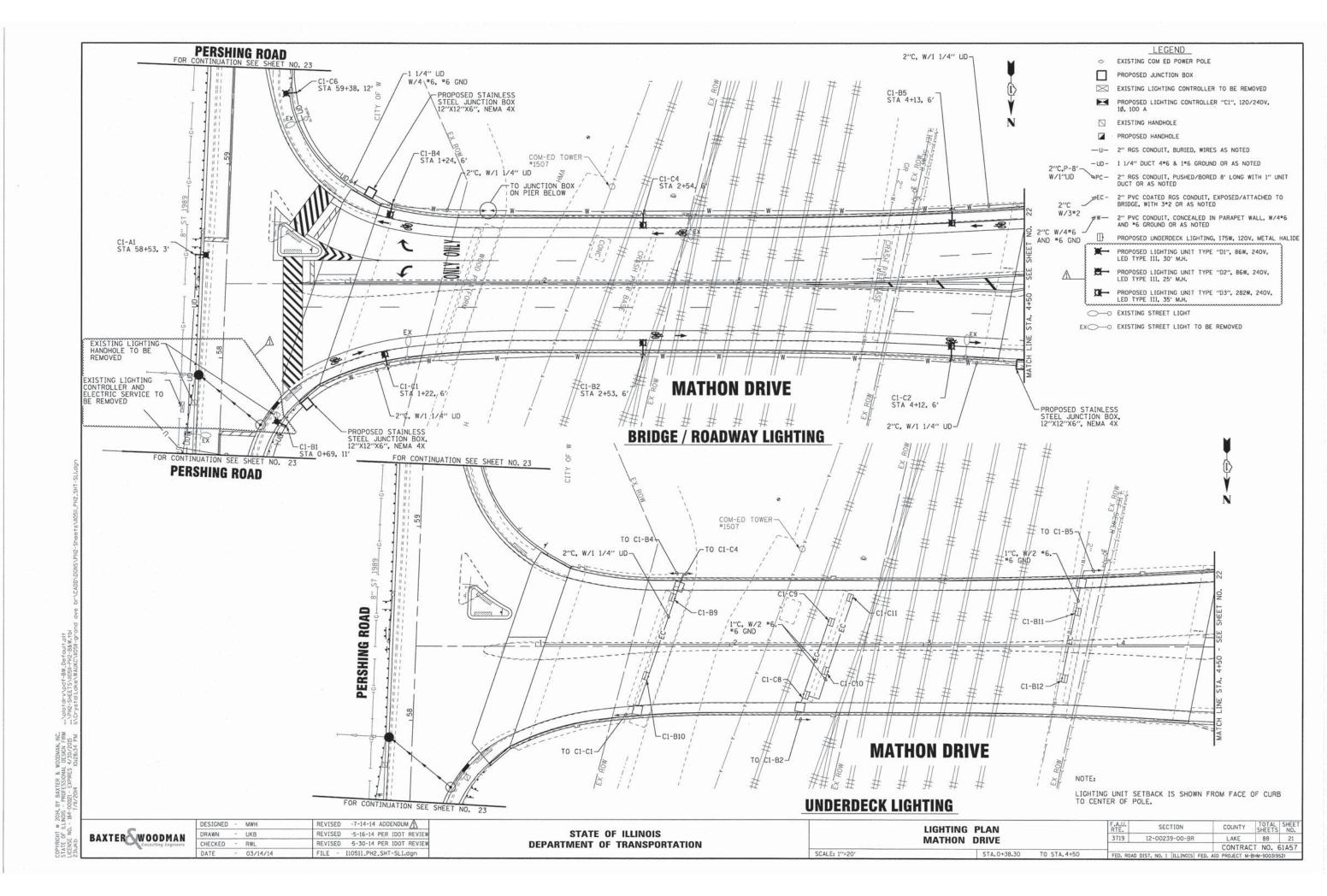
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

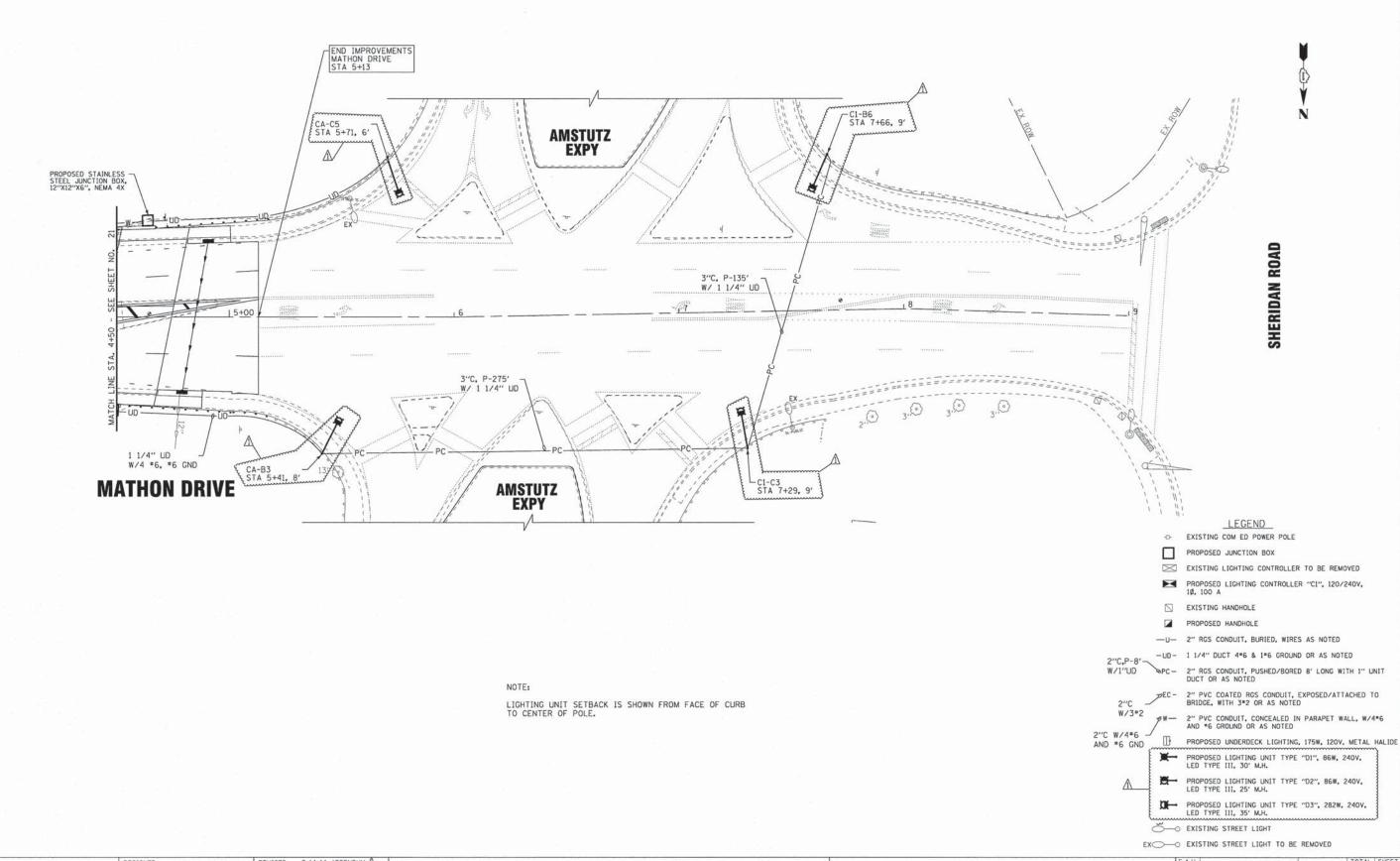
LIGHTING GENERAL NOTES, QUANTITIES	F.A.U. RTE. SECTION COUNTY TOTAL SHEE SHEETS NO.
AND ONE-LINE DIAGRAM	3719 12-00239-00-BR LAKE 88 20
AND ONE EINE DIAGRAM	CONTRACT NO. 61A57
STA. TO STA.	FED. ROAD DIST, NO. 1 ILLINOIS FED. AID PROJECT M-BHM-9003(952)

Z

-C1-B8 STA 64+05

2014, INOIS 184-





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BAXTER WOODMAN

 DESIGNED MWH
 REVISED -7-14-14 ADDENDUM ⚠

 DRAWN UKB
 REVISED -5-16-14 PER IDOT REVIEW

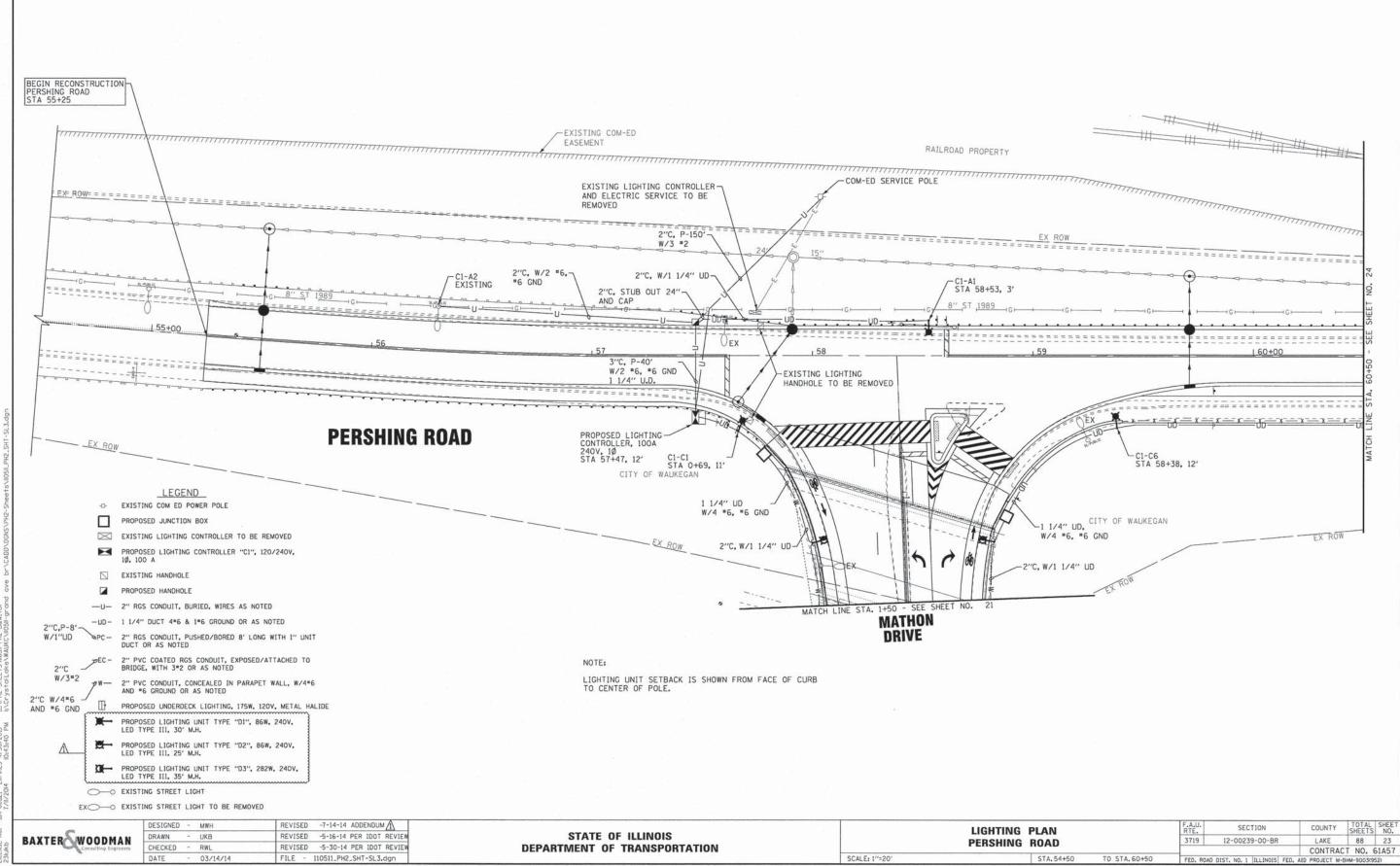
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 REVISED -5-30-14 PER IDOT REVIEW

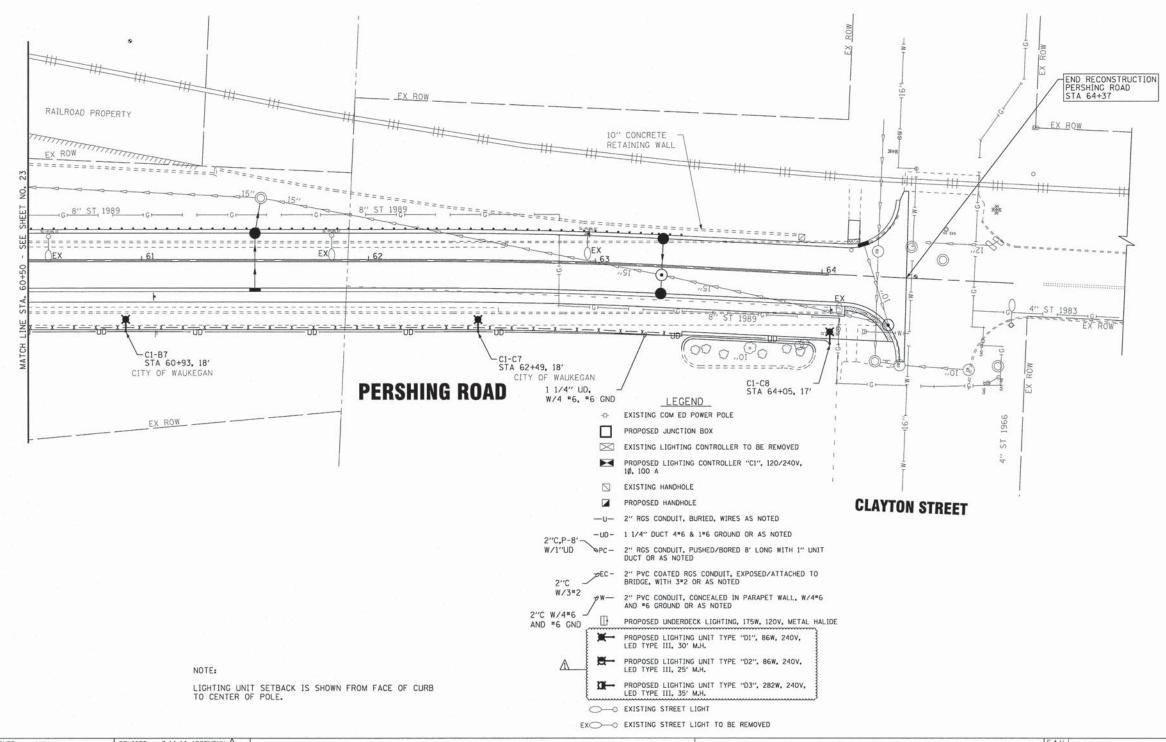
 DATE 03/14/14
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN MATHON DRIVE

SCALE: 1"=20"





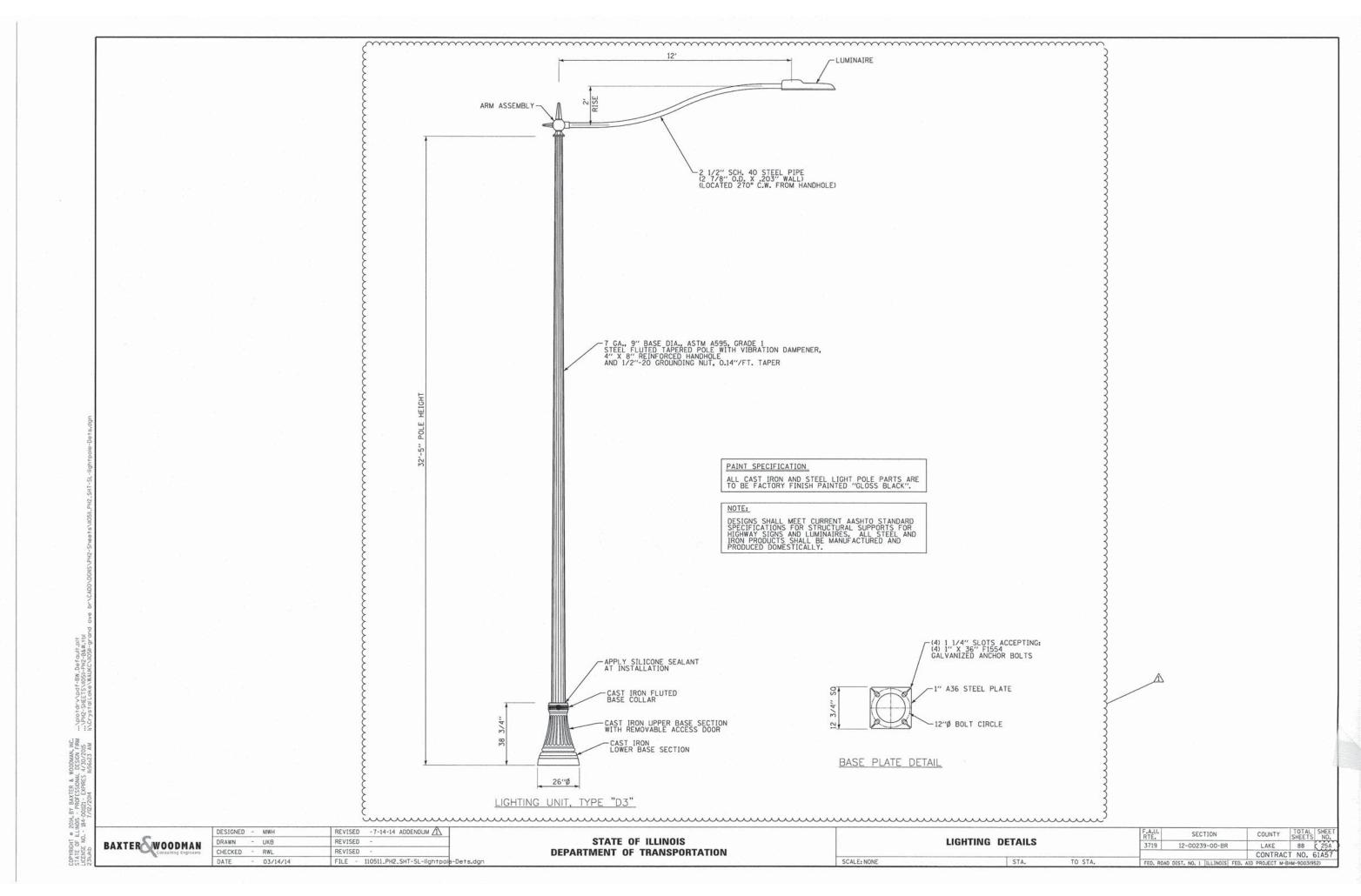
TRUCHT 6-2017-10 1904-1804
TROOT 6-1804-00121 - EXPIRES 4/30/2015NPH2-SHEE
NNSE NO. - 184-00121 - EXPIRES A/30/2015NPH2-SHEE

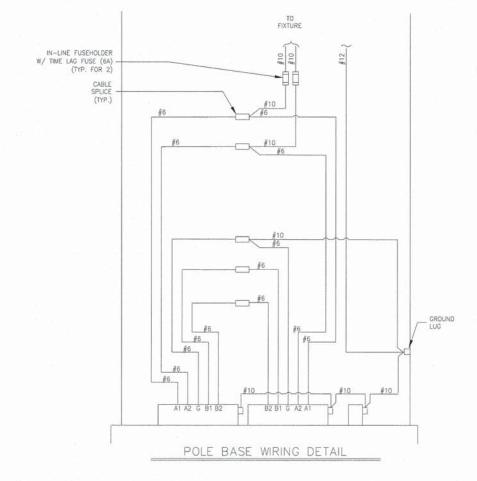
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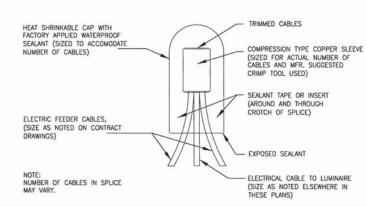
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DRAWN	-	UKB	REVISED	-5-16-14	PER	IDOT	REVIEW
CHECKED	-	RWL	REVISED	-5-30-14	PER	IDOT	REVIEW
DATE	-	03/14/14	FILE -	110511_PH2	SHT	-SL4.	dgn
	DRAWN CHECKED	DRAWN - CHECKED -	CHECKED - RWL	DRAWN - UKB REVISED CHECKED - RWL REVISED	DRAWN - LIKB REVISED -5-16-14 CHECKED - RWL REVISED -5-30-14	DRAWN - UKB REVISED -5-16-14 PER CHECKED - RWL REVISED -5-30-14 PER	DRAWN - LIKB REVISED -5-16-14 PER IDOT CHECKED - RWL REVISED -5-30-14 PER IDOT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	LIGHTING	PLAN		F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	PERSHING	ROAD		3719	12-00239-00-BR	LAKE	88	24
I Elisiling HOAD						CONTRACT	NO.	61A57
ALE: 1"=20"		STA.60+50	TO STA. 64+50	FED. ROAD	DIST. NO. 1 ILLINOIS FED.	AID PROJECT M-BH	m-9003(9	52)



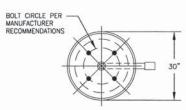




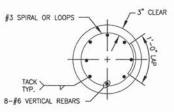
SPLICING ELECTRICAL CABLES BASIC MATERIALS AND METHODS

NOTES:

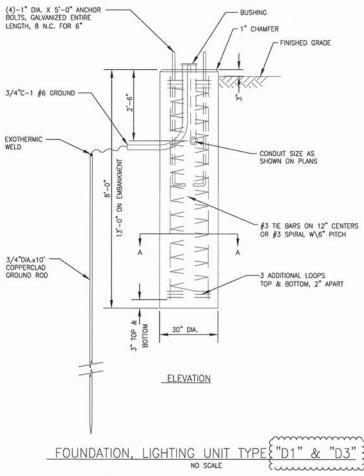
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY CENTERED AND SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- 2. CONCRETE SHALL BE 3500 PSI AT 14 DAYS (CLASS SI).
- THE HOLE FOR THE FOUNDATION SHALL BE MADE WITH AN AUGER OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- 4. THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 1 INCH.
- CABLE TRENCHES AND FOUNDATIONS SHALL BE BACKFILLED AND COMPACTED, AND CONCRETE CURED ACCORDING TO APPLICABLE STANDARDS BEFORE LIGHT POLES MAY RE INSTALLED.
- 6. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE ANCHOR ROD SHALL BE THREADED A MINIMUM OF 6 INCHES WITH A MINIMUM OF 3" OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION AND PROJECT A MINIMUM OF 2 3/4" ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFED THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- 7. RACEWAYS SHALL PROJECT 1" ABOVE THE TOP OF THE FOUNDATION.



TOP VIEW



SECTION A-A



NOTE:

MINIMUM DEPTH OF FOUNDATIONS INSTALLED ON EMBANKMENTS SHALL BE INCREASED BY (2) TWO TIMES THE FOUNDATION DIAMETER AS NOTED.

BAXTER WOODMAN

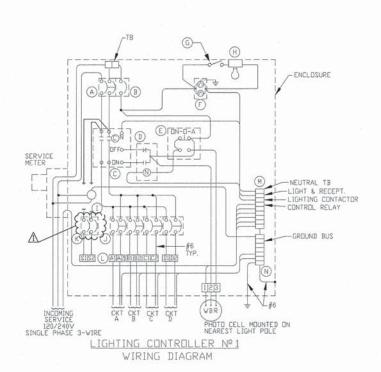
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CKED -	RWL	REVISED -7-14-14 ADDENDUM
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	WN -	WN - UKB CKED - RWL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

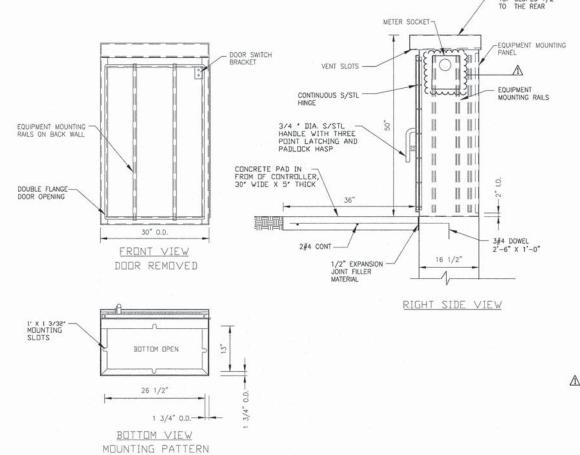
				F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	LIGHTING	3719	12-00239-00-BR	LAKE	88	26		
					CONTRAC	T NO.	61A57	
CALE: NONE		STA.	TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED.	AID PROJECT M-E	3HM-9003(9	52)

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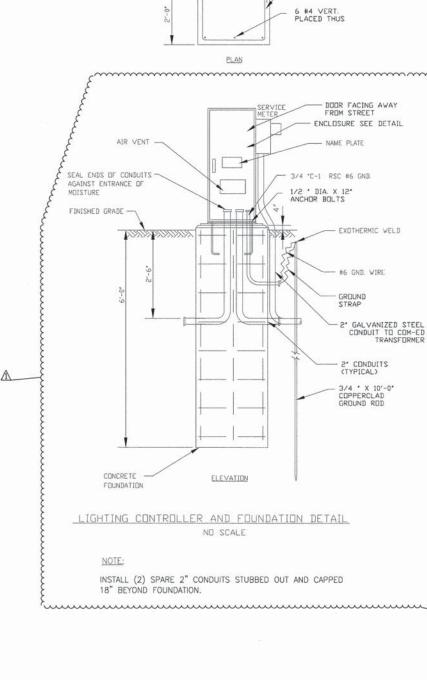




NOTES:

- CABINET SHALL BE FABRICATED FROM 0.125-INCH SHEET ALUMINUM #3003H14,
- FORMED AND ARC WELDED ASSEMBLY WITH NEMA 3R RATING.
 ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVINIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL.
- NAME PLATE SHALL HAVE ENGRAVED 0.75-INCH HIGH LETTERS FILLED IN BLACK:
- "STREET LIGHTING".
 CABINET SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- ELECTRIC UTILITY METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET AS SHOWN ON THE PANEL LAYOUT DIAGRAM.
 THE COMPLETED CONTROLLER SHALL BE U.L. LISTED AS AN INDUSTRIAL CONTROL
- PANEL UNDER UL508.
- METAL MOUNTING PANEL SHALL BE #10 GAUGE GALVINIZED SHEET STEEL FLANGED BACK 0.75-INCHES I.D. ON 4 SIDES.
- CIRCUIT BREAKERS AND CONTACTORS AND OTHER COMPONENTS SHALL BE MOUNTED ON 0.125-INCH THICK GLASTIC INSULATION BACK PANEL.
- ALL DEVICES SHALL BE FRONT REMOVABLE. BUS BAR SHALL HAVE 22 LUG TERMINALS SIZED TO ACCOMODATE REQUIRED WIRE SIZES. NEUTRAL BUS SHALL BE PAINTED WHITE. GROUND BUS SHALL BE PAINTED
- 11. ALL LUGS SHALL BE COPPER SCREWS AND CONNECTORS, SPRING HELD.

 12. ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE
- CENTIGRADE.
- 13. ALL CONTROL WIRING SHALL BE 600V MACHINE TOOL WIRE TYPE MTW.
- 14. ALL POWER WIRING SHALL BE 600V TYPE RHH/RHW.
 15. A LAMINATED COPY OF THE CIRCUIT SCHEMATIC DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER.
- 16. ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE #12 AWG STRANDED UNLESS OTHERWISE INDICATED.
- 17. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.



2'-6"

#4 TIES @12"

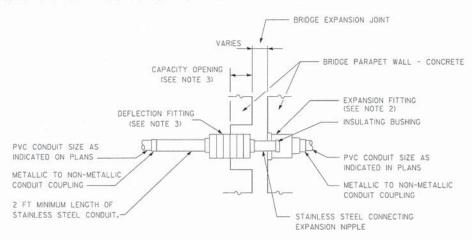
BAXTER	WOODMAN Consulting Engineers
	Contracting mighters

DESIGNED	-	MWH	REVISED -5-8-14 PER IDOT REVIEW
DRAWN	-	UKB	REVISED -5-16-14 PER IDOT REVIEW
CHECKED	-	RWL	REVISED - 7-14-14 ADDENDUM
DATE	8-	03/14/14	FILE - 110511_PH2_SHT-SL-Controller

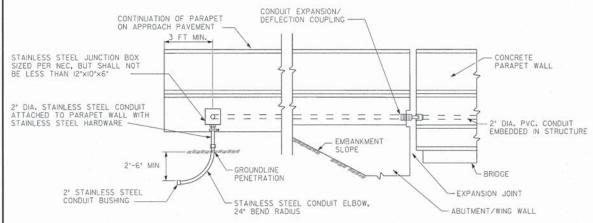
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	ICUTING DETAILS	F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.	
L	IGHTING DETAILS	3719	12-00239-00-BR	LAKE	88	27	
					CONTRAC	T NO. 6	51A57
SCALE: NONE	STA.	TO STA.	FED. ROAL	DIST. NO. 1 ILLINOIS FED.	AID PROJECT M-E	3HM-9003(9	52)

- 2. THE BARREL IN THE EXPANSION FITTING SHALL BE FULLY EMBEDDED IN THE CONCRETE ON ONE SIDE OF THE EXPANSION JOINT. ONE HALF THE LENGTH OF THE DEFLECTION FITTING SHALL BE EMBEDDED IN THE CONCRETE ON THE OTHER SIDE OF
- 3. A CAVITY OPENING 3' LARGER IN DIAMETER THAN THE DEFLECTION FITTING SHALL BE PROVIDED IN THE CONCRETE TO ENSURE PROPER PERFORMANCE OF THE COUPLING.
- CAREFUL ATTENTION TO JOINT MOVEMENT OVER A RANGE OF TEMPERATURES SHALL BE COORDINATED WITH THE SELECTION AND INSTALLATION OF THE COUPLING TO ENSURE THE RANGE OF MOVEMENT OF THE COUPLING IS NOT EXCEEDED AT TEMPERATURE
- ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE CAREFULLY FOLLOWED TO ENSURE OPTIMUM PERFORMANCE OF THE EXPANSION/DEFLECTION COUPLING.
- 6. THE CONTRACTOR SHALL INSTALL COUPLINGS AT ALL BRIDGE EXPANSION JOINTS AND SHALL BE RESPONSIBLE TO DETERMINE THE PROPER NUMBER OF COUPLINGS REQUIRED.



CONDUIT EXPANSION/ DEFLECTION COUPLING DETAIL



CONDUIT AT PARAPET NOTES

- I. STAINLESS STEEL CONDUIT, COUPLINGS, AND ELBOWS SHALL BE ACCORDING TO SECTION BIO OF THE STANDARD SPECIFICATIONS. AS APPLICABLE, SHALL BE TYPE 304 OR TYPE 316, AND SHALL BE MANUFACTURED ACCORDING TO UL STANDARD 6A AND ANSI STANDARD C 80.1.
- 2. CONDUIT FITTINGS SHALL BE THE THREADED TYPE, SHALL BE TYPE 304 OR TYPE 316 STAINLESS STEEL, AND SHALL BE MANUFACTURED ACCORDING TO UL STANDARD 514B.
- 3. ALL STAINLESS STEEL AND LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT, INCLUDING ALL FITTINGS, BUSHINGS, COUPLINGS, AND ELBOWS SHALL BE INCLUDED IN THE COST OF THE "JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6" " PAY ITEM.

B" DIA, STEEL POLE I' SELF-LOCKING NUT OR DOUBLE NUT. INSTALL WITH TORQUE WRENCH AND TORQUE TO THE ISOLATION PAD MANUFACTURER'S SPECIFICATIONS. 21/2" O.D. CALVANIZED STEEL FLAT WASHER EITHER SIDE OF 21/2" O.D. X 1/2" ISOLATION WASHER. 1" DIA. X 4'-4" HIGH STRENGTH ANCHOR BOLTS (ASTM A687). PROVIDE 2 FLAT WASHERS, 1 REGULAR NUT, AND 1 LOCKNUT FOR EACH BOLT. ALL NUTS AND WASHERS MUST BE GALVANIZED. 4/1 2" DIA. PVC CONDUIT UNLESS OTHERWISE INDICATED ON PLAN SHEETS. RADIUS = 24". 90 DEGREE ELBOW (TYP.). Ξ΄ Δ \triangleleft \triangleleft SECTION A-A

POLE MOUNTED ON BRIDGE PARAPET (INSTALLATION DETAIL)

- POLE BASE PLATE

/2" MIN. ISOLATION PAD (SEE NOTE 3) 4 AND 5

" MIN. GALVANIZED STEE

LEVELING PLATE, SIZE TO MATCH POLE BASE PLATE

HIGH STRENGTH ANCHOR

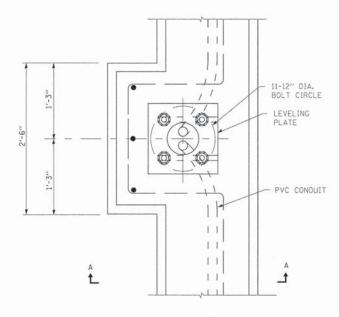
BOLTS IN BRIDGE PARAPET.

(SEE NOTE -3)4

PARAPET MOUNTED LIGHT POLE NOTES

I" LEVELING NUTS

- 1. THE OUTLINE OF THE POLE LEVELING PLATE AND VIBRATION ISOLATION PAD SHALL MATCH THAT OF THE POLE BASE PLATE.
- THE COST OF ANCHOR BOLTS, AND FOUNDATION IS INCLUDED WITH CONCRETE SUPERSTRUCTURE. SEE BRIDGE PLANS.
- 3. ANCHOR BOLTS SHALL BE THREADED A MINIMUM OF G INCHES WITH A MINIMUM OF 3" OF THREADED ANCHOR BOLTS EMBEDDED IN THE FOUNDATION AND PROJECT A MINIMUM OF 2 3/4" ABOVE THE TOP OF THE FOUNDATION.
- 4. THE VIBRATION ISOLATION PAD AND LEVELING PLATE SHALL MATCH THE FOOTPRINT OF THE POLE BASE PLATE.
- 5. THICKNESS OF ISOLATION PAD AND WASHERS SHALL BE ACCORDING TO THE ISOLATION PAD MANUFACTURER'S RECOMMENDATIONS BASED UPON POLE HEIGHT AND LOADING.



PLAN

LIGHT POLE MOUNTED ON CONCRETE PARAPET

	_
BAXTER	WOODMAN

DESIGNED	+	MWH	REVISED -5-8-14 PER IDOT REVIEW
DRAWN	(E	UKB	REVISED -5-16-14 PER IDOT REVIEW
CHECKED	(*)	RWL	REVISED -7-14-14 ADDENDUM
DATE	-	03/14/14	FILE - 110511_PH2_SHT-SL-Controler-Dets.dgn

CONDUIT AT PARAPET DETAIL

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

THREAD AND CAP END OF CONDUIT. WHEN READY FOR WIRING REPLACE

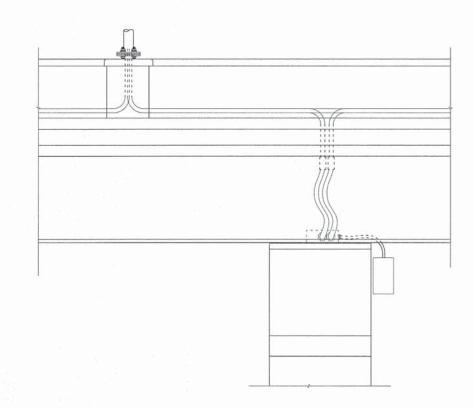
VIBRATION ISOLATION PAD AND

LEVELING PLATE UNDER POLE. SEE INSTALLATION DETAIL. —

CAP WITH BUSHING.

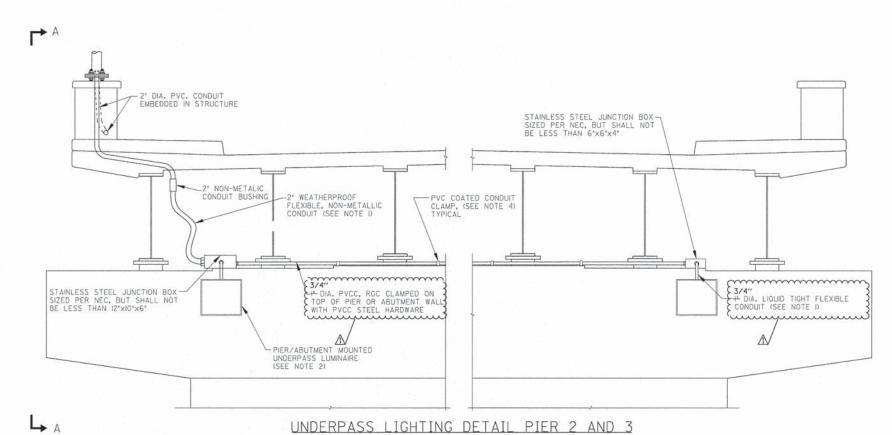
	LICUTING	DETAILS		F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	LIGHTING	DETAILS	3719	12-00239-00-BR	LAKE	88	28	
				MILANIA DA CANDO PARA CARA MANDE	CONTRAC	T NO.	61A57	
SCALE: NONE		STA.	TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED.	AID PROJECT M-E	HM-9003(9	52)

- 2. UNDERPASS LUMINAIRE MOUNTED TO FACE OF PIER OR ABUTMENT WALL. MOUNTING HEIGHT OF 1" BELOW THE TOP OF PIER OR ABUTMENT WALL TYPICAL FOR ALL PIER/ABUTMENT MOUNTED UNDERPASS LUMINAIRES UNLESS OTHERWISE NOTED.
- EXPANSION ANCHOR, POWDER ACTUATED FASTENERS WILL NOT BE ALLOWED. EXPANSION ANCHOR MUST BE SIZED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- 4. SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
- ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.



SIDEVIEW A-A

SCALE:NONE



UN FHRM ...,NpiotdryNpdT-BW_Defour.pit //2015 ...,NPH2-SHEETS\NIOSII-PH2-B&W.tbl 39 AM \\Corp.boxwood.com\projects\Crysfd|L

NO. - 184-00121 - EXPIRES 4/30/2015 ...\P

BAXTER WOODMAN

Salekb

Consulting Engineers

Consulting Engineers

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

 LIGHTING DETAILS
 F.A.U. SECTION

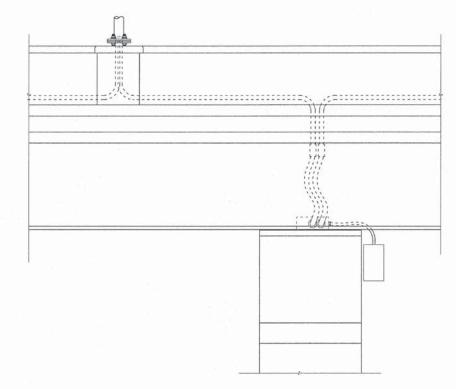
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 FED. ROAD DIST. NO. 1 | ILLINOIS|

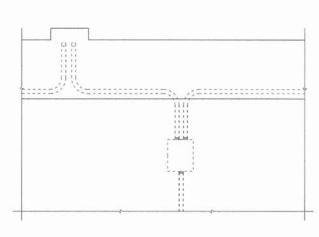
COUNTY

LAKE 88 29A

CONTRACT NO. 61A57

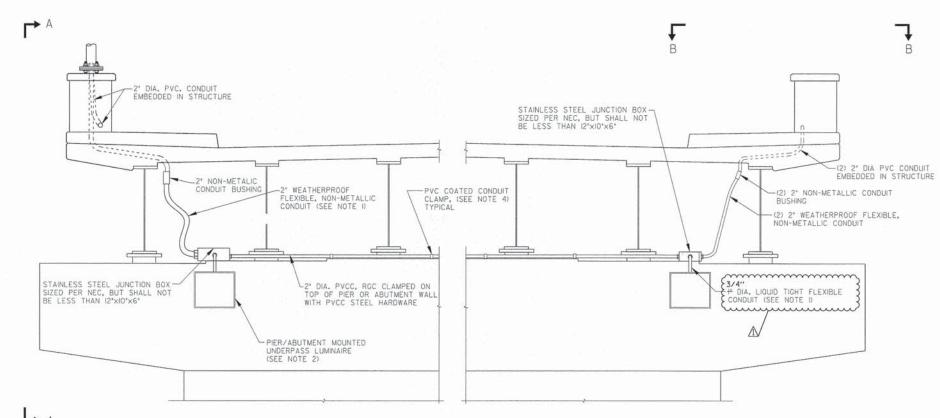
- 1. LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT THE COST OF THE 3/4 " DIA. RIGID STEEL CONDUIT AND 3/4 " DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE LUMINAIRE INSTALLATION.
- 2. UNDERPASS LUMINAIRE MOUNTED TO FACE OF PIER OR ABUTMENT WALL. MOUNTING HEIGHT OF 1" BELOW THE TOP OF PIER OR ABUTMENT WALL TYPICAL FOR ALL PIER/ABUTMENT MOUNTED UNDERPASS LUMINAIRES UNLESS OTHERWISE NOTED.
- 3. EXPANSION ANCHOR, POWDER ACTUATED FASTENERS WILL NOT BE ALLOWED. EXPANSION ANCHOR MUST BE SIZED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- 4. SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
- 5. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.





TOP VIEW B-B

SIDEVIEW A-A



2014, INDIS

REVISED -5-8-14 PER IDOT REVIEW DESIGNED - MWH BAXTER WOODMAN REVISED -5-16-14 PER IDOT REVIEW REVISED -7-14-14 ADDENDUM CHECKED - RWL 03/14/14 FILE - 110511_PH2_SHT-SL-Controler-Dets.dgn

DEPARTMENT OF TRANSPORTATION

SECTION LIGHTING DETAILS 3719 12-00239-00-BR STA. TO STA.

STATE OF ILLINOIS

SCALE: NONE

UNDERPASS LIGHTING DETAIL PIER 1

LAKE 88 29 CONTRACT NO. 61A57

COUNTY

GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts (in painted areas and ASTM A325 Type 3 in unpainted areas). Bolts 3_4 in. $^\phi$, holes $^{15}_{16}$ in. $^\phi$, unless otherwise noted.

..... -i Calculated weight of Structural Steel = 923,680 lbs. (AASHTO M 270 Grade 50W). I All structural steel shall be AASHTO M 270 Grade 50W except as noted.

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $^{l}_{8}$ inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

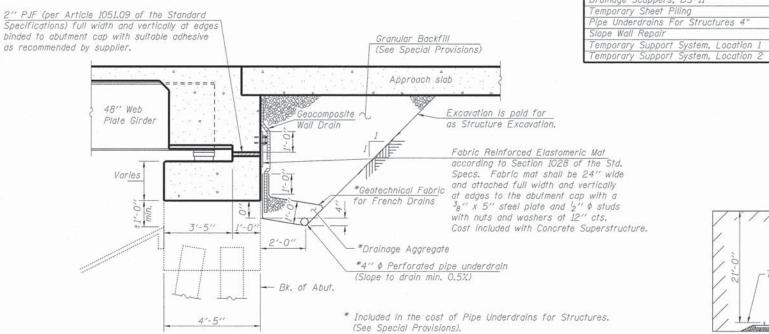
The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.

See Roadway General Notes and Special Provisions for additional requirements by Union Pacific. Protective Shield was installed in 2013 throughout all of Span 2, and Span 3 over the UPRR tracks. This protective shield can be assumed to be in acceptable condition for use during superstructure removal. Existing protective shield shall become the property of the Contractor after removal.

The overhead power lines crossing Span 2 will remain active and will require a minimum construction clearance to avoid arcing. As of the printing of these contract documents, ComEd is expected to raise these lines prior to construction to increase the allowable work zone height under the wires to approximately 30 feet above the bridge deck. The Contractor shall verify available vertical clearances and safe distances with ComEd prior to beginning work.

Copies of record drawings for the existing bridge are available upon request. Contact Baxter & Woodman at (815) 459-1260 and allow up to two business days.



SECTION THRU SEMI-INTEGRAL ABUTMENT

All drainage system components shall extend to the inside face of the existing wingwalls. 4" perforated pipe drains shall be extended through field-cored holes in the wingwalls and until intersecting the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal Of Existing Superstructures	Each	1		1
Concrete Removal	Cu Yd		135.1	135.1
Protective Shield	Sa Yd	1185		1185
Structure Excavation	Cu Yd		218	218
Concrete Structures	Cu Yd		295.5	295.5
Concrete Superstructure	Cu Yd	966.2		966.2
Bridge Deck Grooving	Sq Yd	2630		2630
Form Liner Textured Surface	Sq Ft	4590		4590
Protective Coat	Sq Yd	3624		3624
Furnishing And Erecting Structural Steel	L Sum	1		1
Stud Shear Connectors	Each	11955		11955
Reinforcement Bars, Epoxy Coated	Pound	223670	39160	262830
Bar Splicers	Each	1196	132	1328
Name Plates	Each	1		1
Preformed Joint Strip Seal	Foot	202	-	202
Elastomeric Bearing Assembly, Type I	Each	24		24
Elastomeric Bearing Assembly, Type II	Each	24		24
Anchor Bolts, 1"	Each		48	48
Anchor Bolts, 14"	Each		24	24
Anchor Bolts, 1'z"	Each		24	24
Anchor Bolts, 2"	Each		24	24
Epoxy Crack Injection	Foot		80	80
Geocomposite Wall Drain	Sa Yd		90	90
Drainage System	L Sum	1		1
Concrete Surface Color Treatment	Sa Ft	4050		4050
Concrete Wearing Surface, 5"	Sa Yd	353		353
Concrete Wearing Surface (Variable Depth)	Sa Yd	134		134
Precast Bridge Approach Slab	Sa Ft	3933		3933
Parapet Railing, Special	Foot	811		811
Granular Backfill For Structures	Cu Yd		132	132
Structural Repair Of Concrete (Depth Equal To Or Less	Sa Ft		350	350
Than 5 Inches)	STORES .			
Structural Repair Of Concrete (Depth Greater Than 5	Sq Ft		50	50
Inches)				
Drainage Scuppers, DS-11	Each	6		6
Temporary Sheet Piling	Sq Ft		634	634
Pipe Underdrains For Structures 4"	Foot		220	220
Slope Wall Repair	Sq Yd		100	100
Temporary Support System, Location 1	Each		1	1
Temporary Support System, Location 2	Each		1	1

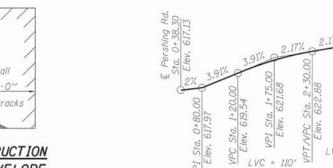
Top of Rail - @ Tracks

MINIMUM CONSTRUCTION CLEARANCE ENVELOPE

From BNSF/UPRR Guidelines Dimensions perpendicular to tracks

INDEX OF SHEETS

- General Plan
- General Data
- Stage Construction Details Top of Deck Elevations
- Top of East Approach Slab Elevations Top of West Approach Slab Elevations
- Superstructure
- Superstructure Plan
- Superstructure Plan II
- 15. Superstructure Plan III
- Superstructure Details I
- Superstructure Details II
- 18. East Abutment Diaphragm Details 19. West Abutment Diaphragm Details
- 20. Drainage Scupper, DS-11
- 21. Drainage System Details
- 22. East Approach Slab Details 23. East Approach Slab Details
- 24. East Approach Slab Details
- 25. East Approach Slab Details
- 26. West Approach Slab Details
- 27. West Approach Slab Details
- 28. West Approach Slab Details
- 29. West Approach Slab Details
- 30. Parapet Extension Layout Parapet Extension Details
- 32. Railing and Form Liner Details
- 33. Framing Plan
- 34. Structural Steel Details
- 35. Plate Girder Details
- 36. Field Splice Details
- 37. Cross Frame Details
- 38. Bearing Details at Abutments
- 39. Bearing Details at Piers
- 40. Removal Details
- 41. East Abutment
- 42. West Abutment
- 43. Pier 1 44. Pier 2
- 45. Pier 3
- 46. Pier Repairs 47. Abutment and Slope Wall Repairs
- 48. Bar Splicer Assembly & Mechanical Splicer Details
- 49. Boring Logs
- 50. Boring Logs



LVC = 110'

P	$\neg \cap$	FI	IF	GRA	NDE
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AVTERNINODMAN		CHECKED - DCD	REVISED -
BAXTER WOODMAN	PLOT SCALE =	DRAWN - BLB	REVISED -
	PLOT DATE = 7/14/2014	CHECKED - DCD	REVISED -

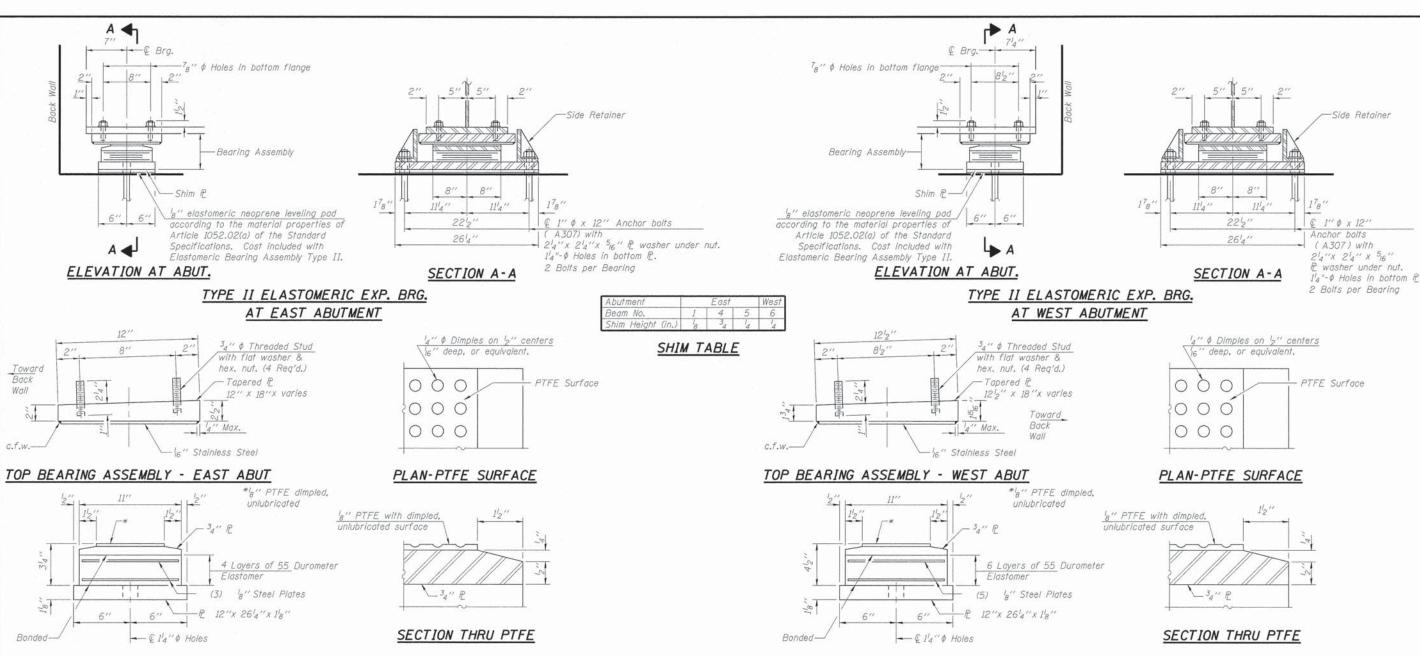
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

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GENERAL DATA				
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F.A.U. RTE.	SECTION		COUNTY	TOTAL	SHEE
3719	12-00239-00-BR		LAKE	88	31
			CONTRAC	CT NO. 6	1A5
	ILLINOIS	FED. AIC	PROJECT	M-BHM-9003	3(952)

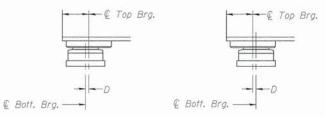
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BOTTOM BEARING ASSEMBLY - EAST ABUT

SIDE RETAINER AT EAST AND WEST ABUTMENTS

will be allowed in lieu of welded plates.



BELOW 50°F.

(Move bott. brg. away from fixed brg.) (Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

D='g'' per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

BOTTOM BEARING ASSEMBLY - WEST ABUT

Notes.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Anchor bolts for Type II bearings shall be placed in holes drilled in the concrete through holes in the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type II. The structural steel plates of the Bearing Assembly

The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50W.

Two $^{l}_{\mathcal{B}}$ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

The 'a" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 'g'' PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	24
Anchor Bolts, 1"	Each	48

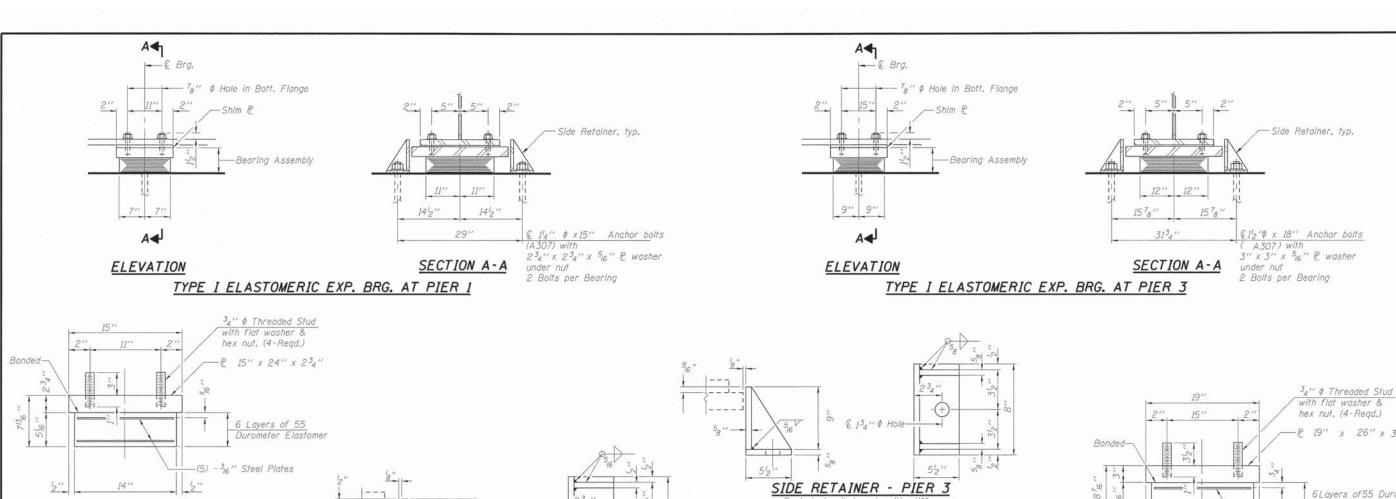
BAXTER	WOODMAN Consulting Engineers
BAXTER	WOODMAN Consulting Engineers

USER NAME = 611blb	DESIGNED - ABW	REVISED / 7/11/2014 BLB
	CHECKED - DCD	REVISED -
PLOT SCALE =	DRAWN - ABW	REVISED -
PLOT DATE = 7/14/2014	CHECKED - DCD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS AT ABUTMENTS	F.A.U. RTE.
STRUCTURE NO. 049-2050	3719
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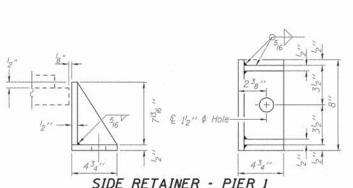
F.A.U. RTE.	SECTION		COUNTY	TOTAL	SHEET NO.
3719	12-00239-00-BR		LAKE	88	67
			CONTRAC	T NO. 6	51A57
	ILLINOIS	FED. AID	PROJECT N	M-BHM-900	3(952)



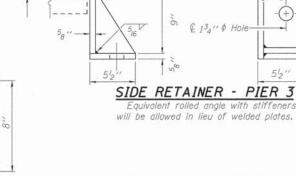
BEARING ASSEMBLY AT PIER 1

PINTLE

Shim plates shall not be placed under Bearing Assembly.



SIDE RETAINER - PIER 1 Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



SHIM TABLE

3₄'' ¢ Threaded Stud 19" x 26" x 3" 6Layers of 55 Durometer Elastomer (5) - 316" Steel Plates

BEARING ASSEMBLY AT PIER 3

Shim plates shall not be placed under Bearing Assembly.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Anchor bolts for side retainers may be cast in place or installed in holes drilled before or after members are in

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications. Side retainers and other steel members required for

the elastomeric bearing assembly shall be included in the

The structural steel plates of the Bearing shall conform to the requirements of AASHTO M 270

Grade 50W.

Two 'g in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

Cost of fixed bearings shall be included with Furnish & Erect Structural Steel.

RIII	OF	MATERIAL
DILL	U	MAILMIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	24
Anchor Bolts, 14"	Each	24
Anchor Bolts, 12"	Each	24
Anchor Bolts, 2"	Each	24

BOTTOM	P	PLA
 	-	

L1"x2'5"

corner clip, typ.

FIXED BEARING AT PIER 2

USER NAME = 611blb	DESIGNED - ABW	REVISED / 7/11/2014 BLB
	CHECKED - DCD	REVISED -
PLOT SCALE =	DRAWN - ABW	REVISED -
PLOT DATE = 7/14/2014	CHECKED - DCD	REVISED -

 $B \blacktriangleleft 1$

--- € Brg.

734" 734"

ELEVATION AT PIER

-R 9"x 15½" x 2"

P 15/2"x 26"x 234"

18" elastomeric neoprene leveling pad

Article 1052.02(a) of the Standard

Specifications. Cost included with

according to the material properties of

-Shim ₽

Structural Steel.

STATE	01	ILLINOIS	
DEPARTMENT	OF	TRANSPORTATION	

SECTION B-B

 $^{\prime}$ $^{\phi}$ Holes-1" deep in top $^{\mathcal{P}}$ for 17 $_{8}$ " $^{\phi}$ pintles. Thread or press fit in bottom $^{\mathcal{P}}$.

2" \$ x 24" Anchor bolts

2¹2" Φ Holes in bottom Æ. 2 Bolts per Bearing

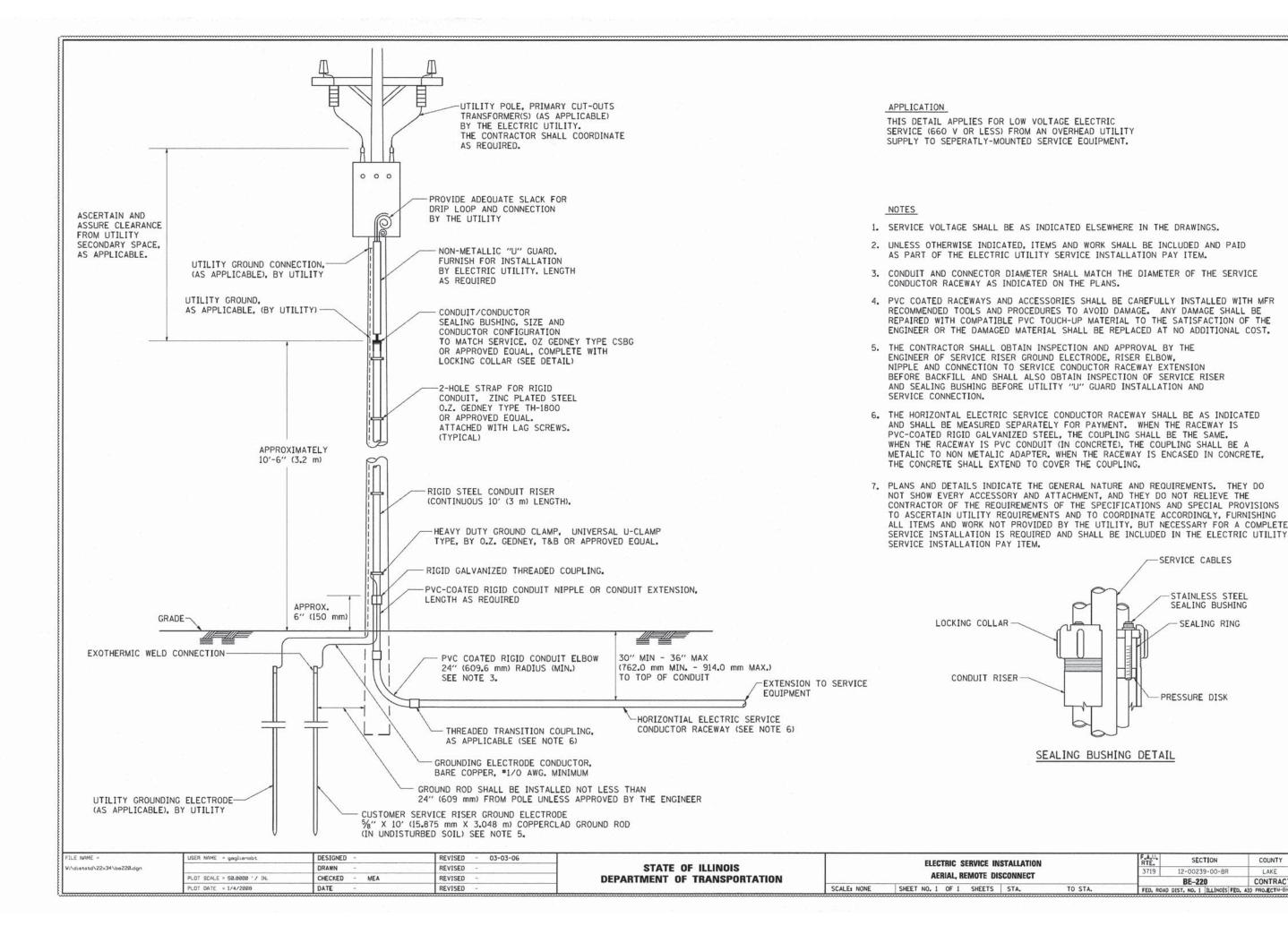
312" x 312" x 516" 12 washer under nut

BEARIN	G I	ET	AIL	S	ΑT	PIER	S
STRUCTURE NO. 049-2050							
SHEET	NO.	39	OF	50	SHE	ETS	

	SECTION	COUNTY	SHEETS	NO.
3719	12-00239-00-BR	LAKE	88	68
		CONTRAC	CT NO. 6	51A57

€ Pier 2-

BAXTEREWOODMAN



1

TOTAL SHEE NO.

COUNTY

LAKE

CONTRACT NO. 61A57