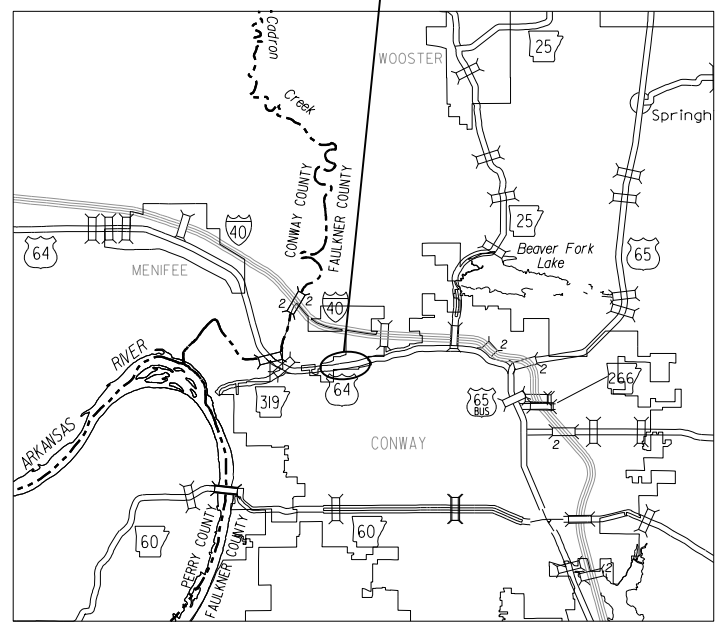


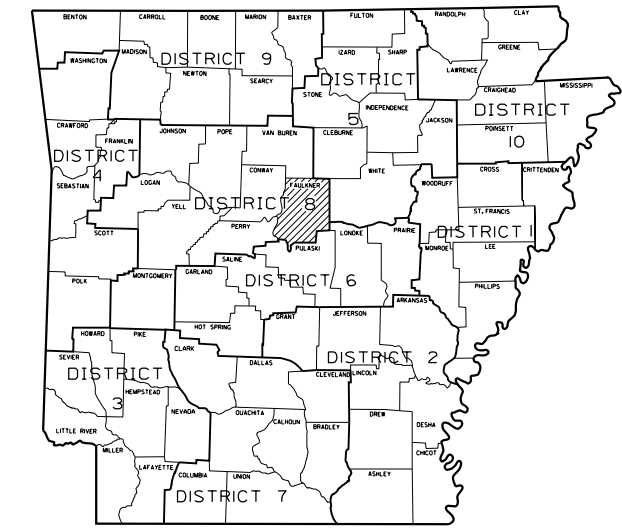
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
6/10/2024		6	ARK.	080634	1	80
HWY. 64/HOGAN LN. ROUNDABOUT (CONWAY) (S)						

PROJECT LOCATION

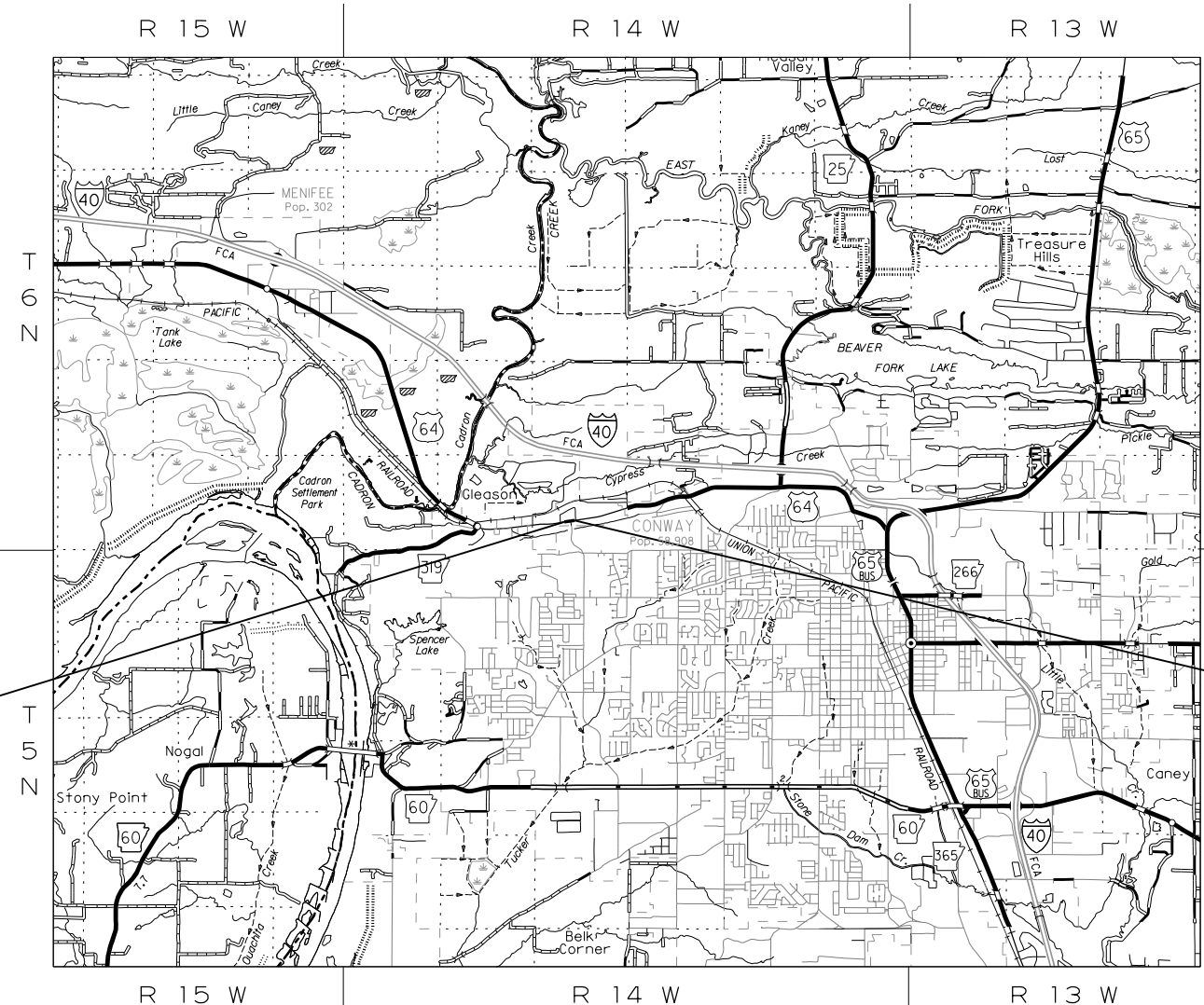


ARKANSAS DEPARTMENT OF TRANSPORTATION
 CONSTRUCTION PLANS FOR STATE HIGHWAY
 HWY. 64/HOGAN LN.
 ROUNDABOUT (CONWAY) (S)
 FAULKNER COUNTY
 ROUTE 64 SECTION 8
 JOB 080634
 FED. AID PROJ. CRTLC-STPC-STPLC-9095(40)

NOT TO SCALE



ARKANSAS HIGHWAY DISTRICT 8



DESIGN TRAFFIC DATA

DESIGN YEAR	-----	2044
2024 ADT	-----	11,000
2044 ADT	-----	14,000
2044 DHV	-----	1,540
DIRECTIONAL DISTRIBUTION	-----	60%
TRUCKS	-----	5%
DESIGN SPEED	-----	55 MPH

STA. 12+00.00
 BEGIN JOB 080634
 L.M. 1.31

STA. 25+50.00
 END JOB 080634

PROJECT COORDINATES

	BEGIN	MID-POINT	END
LATITUDE	N 35°06'42"	N 35°06'42"	N 35°06'44"
LONGITUDE	W 92°30'06"	W 92°29'58"	W 92°29'51"
STATION	12+00.00	19+00.00	25+50.00

GROSS LENGTH OF PROJECT	1350.00 FEET OR 0.256 MILES
NET LENGTH OF ROADWAY	1350.00 FEET OR 0.256 MILES
NET LENGTH OF BRIDGES	0.00 FEET OR 0.00 MILES
NET LENGTH OF PROJECT	1350.00 FEET OR 0.256 MILES

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 WORKSPACE: AHTD
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 REVISED DATE:



Digitally Signed 06/10/2024

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
6/10/2024		6	ARK.	080634	3	80
GOVERNING SPECIFICATIONS AND GENERAL NOTES						

GOVERNING SPECIFICATIONS

ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2014, AND THE FOLLOWING SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS:

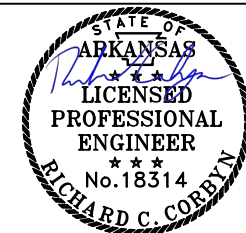
NUMBER	TITLE
ERRATA	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
FHWA-1273	REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - NOTICE TO CONTRACTORS
FHWA-1273	SUPPLEMENT - SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C. 140)
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - GOALS AND TIMETABLES
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - FEDERAL STANDARDS
FHWA-1273	SUPPLEMENT - POSTERS AND NOTICES REQUIRED FOR FEDERAL-AID PROJECTS
FHWA-1273	SUPPLEMENT - WAGE RATE DETERMINATION
100-3	CONTRACTOR'S LICENSE
100-4	DEPARTMENT NAME CHANGE
102-2	ISSUANCE OF PROPOSALS
102-3	PREQUALIFICATION OF BIDDERS
103-2	CONTACT INFORMATION FOR MOTORIST DAMAGE CLAIMS
105-4	MAINTENANCE DURING CONSTRUCTION
107-2	RESTRAINING CONDITIONS
108-1	LIQUIDATED DAMAGES
108-2	WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER
110-1	PROTECTION OF WATER QUALITY AND WETLANDS
210-1	UNCLASSIFIED EXCAVATION
303-1	AGGREGATE BASE COURSE
306-1	QUALITY CONTROL AND ACCEPTANCE
400-1	TACK COATS
400-4	DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES
400-5	PERCENT AIR VOIDS FOR ACHM MIX DESIGNS
400-6	LIQUID ANTI-STRIP ADDITIVE
400-7	TRACKLESS TACK
404-3	DESIGN OF ASPHALT MIXTURES
409-2	ASPHALT LABORATORY FACILITY
410-1	CONSTRUCTION REQUIREMENTS AND ACCEPTANCE OF ASPHALT CONCRETE PLANT MIX COURSES
410-2	DEVICES FOR MEASURING DENSITY FOR ROLLING PATTERNS
410-4	EVALUATION OF ACHM SUBLOT REPLACEMENT MATERIAL
416-1	RECYCLED ASPHALT PAVEMENT
501-2	CEMENT
502-1	WELDED WIRE REINFORCEMENT
505-1	PORTLAND CEMENT CONCRETE DRIVEWAY
600-2	INCIDENTAL CONSTRUCTION
603-1	LANE CLOSURE NOTIFICATION
604-1	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
604-3	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES (MASH)
605-1	CONCRETE DITCH PAVING
620-1	MULCH COVER
621-1	FILTER SOCKS
632-1	CONCRETE ISLAND
634-1	CURBING
700-2	TRAFFIC CONTROL FACILITIES
723-1	GENERAL REQUIREMENTS FOR SIGNS
730-1	BREAKAWAY SIGN SUPPORT
800-1	STRUCTURES
802-4	CEMENT
804-2	REINFORCING STEEL FOR STRUCTURES
JOB 080634	BASIC ELECTRICAL REQUIREMENTS
JOB 080634	BIDDING REQUIREMENTS AND CONDITIONS
JOB 080634	BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
JOB 080634	BROADBAND INTERNET SERVICE FOR FIELD OFFICE
JOB 080634	BUY AMERICA - CONSTRUCTION MATERIALS
JOB 080634	CARGO PREFERENCE ACT REQUIREMENTS
JOB 080634	CLASS C FLY ASH IN PORTLAND CEMENT CONCRETE PAVEMENT AND CLASS S(AE) CONCRETE
JOB 080634	COLD MILLING - COUNTY PROPERTY
JOB 080634	CONCRETE PULL BOX
JOB 080634	DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES
JOB 080634	DISADVANTAGED BUSINESS ENTERPRISE BIDDER'S RESPONSIBILITIES
JOB 080634	ELECTRICAL CONDUCTORS FOR LUMINAIRES
JOB 080634	ELECTRICAL CONDUCTORS-IN-CONDUIT
JOB 080634	ELECTRICAL DEMOLITION AND RELOCATION WORK
JOB 080634	GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
JOB 080634	LED ROADWAY ILLUMINATION POLE
JOB 080634	LIQUIDATED DAMAGES PROCEDURE FOR BID LETTINGS
JOB 080634	LONGITUDINAL JOINT DENSITIES FOR ACHM SURFACE COURSES
JOB 080634	LONGITUDINAL TILING
JOB 080634	MANDATORY ELECTRONIC CONTRACT
JOB 080634	MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
JOB 080634	OFF-SITE RESTRAINING CONDITIONS FOR INDIANA AND NORTHERN LONG-EARED BATS
JOB 080634	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORT
JOB 080634	PARTNERING REQUIREMENTS
JOB 080634	PEDESTAL TYPE SERVICE POINT ASSEMBLY
JOB 080634	PERCENT AIR VOIDS AND NDESIGN FOR ACHM MIX DESIGNS
JOB 080634	PRICE ADJUSTMENT FOR ASPHALT BINDER
JOB 080634	PRICE ADJUSTMENT FOR FUEL
JOB 080634	PROHIBITION OF CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT
JOB 080634	RESTRICTIONS ON THE USE OF RECYCLED ASPHALT PAVEMENT MATERIAL
JOB 080634	SHORING FOR CULVERTS
JOB 080634	SOIL STABILIZATION
JOB 080634	STORM WATER POLLUTION PREVENTION PLAN
JOB 080634	SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB 080634	TEXTURED COATING FINISH (CAST-IN PLACE RETAINING WALLS)
JOB 080634	UTILITY ADJUSTMENTS
JOB 080634	VALUE ENGINEERING
JOB 080634	WARM MIX ASPHALT
JOB 080634	WATER POLLUTION CONTROL

GENERAL NOTES

- GRADE LINE DENOTES FINISHED GRADE WHERE SHOWN ON PLANS.
- ALL PIPE LINES, POWER, TELEPHONE, AND TELEGRAPH LINES TO BE MOVED OR LOWERED BY THE RESPECTIVE OWNERS AS PER AGREEMENT WITH SUCH OWNERS.
- ANY EQUIPMENT OR APPURTENANCE THAT INTERFERES WITH THE PROPOSED CONSTRUCTION AND WHICH MAY BE THE PROPERTY OF UTILITY SERVICE ORGANIZATIONS SHALL BE MOVED BY THE OWNERS UNLESS OTHERWISE PROVIDED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING U. S. MAILBOXES WITHIN THE PROJECT LIMITS IN SUCH A MANNER THAT THE PUBLIC MAY RECEIVE CONTINUED MAIL SERVICE. PAYMENT WILL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE VARIOUS BID ITEMS.
- ALL LAND MONUMENTS LOCATED WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 107.12 OF THE STANDARD SPECIFICATIONS.
- ALL TREES THAT DO NOT DIRECTLY INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE SPARED AS DIRECTED BY THE ENGINEER. CARE AND DISCRETION SHALL BE USED TO ENSURE THAT ALL TREES NOT TO BE REMOVED SHALL BE HARMED AS LITTLE AS POSSIBLE DURING THE CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A FENCE TO CONTROL LIVESTOCK IN AREAS WHERE PASTURES ARE SEVERED. WIRE FENCE MAY BE CONSTRUCTED INITIALLY, OR IN LIEU THEREOF, THE CONTRACTOR AT HIS OWN EXPENSE, MAY ELECT TO PROVIDE TEMPORARY FENCING SUITABLE TO CONTAIN LIVESTOCK.
- THE SEQUENCE AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS IS A GENERAL OUTLINE FOR THE CONSTRUCTION OF THIS PROJECT, AND IN NO WAY IS IT INTENDED TO COVER EVERY ITEM IN THE PROJECT. ITEMS NOT CRITICAL TO THE CONSTRUCTION SEQUENCE MAY BE CONSTRUCTED IN ANY STAGE AS APPROVED BY THE RESIDENT ENGINEER.
- ALL FLEXIBLE BASE AND ASPHALTIC PAVEMENTS REMOVED SHALL BE PAID FOR UNDER THE ITEM NO. 210 - UNCLASSIFIED EXCAVATION.
- THE EXISTING ASPHALT PAVEMENT TO BE REMOVED FROM THE REMAINING PAVEMENT SHALL BE SEPARATED BY SAWING ALONG A NEAT LINE. AFTER SAWING, THE PAVEMENT TO BE REMOVED SHALL BE CAREFULLY REMOVED IN A MANNER THAT WILL NOT DAMAGE THE PAVEMENT THAT IS TO REMAIN. ANY DAMAGE OF THE ASPHALT PAVEMENT THAT IS TO REMAIN IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THIS PROJECT IS COVERED UNDER A SECTION 404 NATIONWIDE 14 PERMIT. REFER TO SECTION 110 OF THE STANDARD SPECIFICATIONS, EDITION OF 2014, FOR PERMIT REQUIREMENTS.



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DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
6/10/2024		6	ARK.	080634	23	80
QUANTITIES						

CONCRETE DITCH PAVING

STATION	STATION	LOCATION	LENGTH		CONC. DITCH PAVING (TYPE B) SQ. YD.	SOLID SODDING SQ. YD.	WATER M. GAL.
			LIN. FT.	FEET			
12+27.00	12+62.00	HWY. 64 (WEST) RT.	36.00	6.00	24.00	16.00	0.20
14+80.00	15+45.00	HWY. 64 (WEST) RT.	69.00	6.00	46.00	30.67	0.39
15+05.00	15+18.00	HWY. 64 (WEST) RT.	36.00	6.00	24.00	16.00	0.20
19+84.22	20+58.00	HWY. 64 (EAST) RT.	81.00	6.00	54.00	36.00	0.45
20+58.00	21+30.00	HWY. 64 (EAST) RT.	74.00	6.00	49.33	32.89	0.41
20+58.00	20+90.00	HWY. 64 (EAST) RT.	39.00	6.00	26.00	17.33	0.22
23+13.00	25+54.00	HWY. 64 (EAST) RT.	281.00	4.00	124.89	124.89	1.57
24+85.00	25+60.00	HWY. 64 (EAST) RT.	81.00	6.00	54.00	36.00	0.45
19+96.00	20+23.00	HWY. 64 (EAST) LT.	88.00	6.00	58.67	39.11	0.49
05+66.63	06+06.38	CIRCULATORY ROADWAY	49.00	6.00	32.67	21.78	0.27
52+00.00	52+35.00	HOGAN LN. RT.	35.00	6.00	23.33	15.56	0.20
52+40.00	54+68.89	HOGAN LN. RT.	242.00	6.00	161.33	107.56	1.36
53+20.00	53+80.00	HOGAN LN. LT.	64.00	6.00	42.67	28.44	0.36
TOTALS:					720.89	522.23	6.57

BASIS OF ESTIMATE:
WATER..... 12.6 GAL. / SQ. YD. OF SOLID SODDING.

DRIVEWAYS & TURNOUTS

STATION	SIDE	LOCATION	WIDTH FEET	**MODIFIED CURB		PORTLAND CEMENT CONCRETE DRIVEWAY SQ. YD.	ACHM SURFACE COURSE (3/8") 220 LBS. PER SQ. YD. (PG 64-22)		AGGREGATE BASE COURSE (CLASS 7) TON	STANDARD DRAWINGS
				STATION	STATION		SQ. YD.	TON		
14+49	LT.	HWY. 64 WEST	14	14+28	14+65	32.92	50.34	5.54	20.56	DR-1
14+50	RT.	HWY. 64 WEST	24	14+24	14+76	46.22				DR-1
14+81	LT.	HWY. 64 WEST	14	14+65	15+02	32.85	69.01	7.59	28.18	DR-1
16+59	LT.	HWY. 64 WEST	12	16+39	16+79	35.56	77.47	8.52	31.63	DR-1
22+40	RT.	HWY. 64 WEST	24	22+14	22+66	46.22				DR-1
* ENTIRE PROJECT TEMPORARY DRIVES										100.00
TOTALS:						193.77	196.82	21.65	180.37	

BASIS OF ESTIMATE:
ACHM SURFACE COURSE (3/8")..... 93.7% MIN. AGGR..... 6.3% ASPHALT BINDER
THE CONTRACTOR, WITH THE APPROVAL OF THE ENGINEER, WILL BE ALLOWED TO SUBSTITUTE A HIGHER PERFORMANCE GRADE ASPHALT SURFACE COURSE FOR DRIVEWAYS AND MINOR SIDE STREET CONSTRUCTION AT NO ADDITIONAL COST TO THE DEPARTMENT.

* QUANTITY ESTIMATED
SEE SECTION 104.03 OF THE STD. SPECS.
TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.

** FOR INFORMATION ONLY

PAVEMENT REPAIR OVER CULVERTS (ASPHALT)

STATION	LOCATION	WIDTH		LENGTH	TON
		FEET	FEET		
12+45	HWY. 64 (WEST)	9.67	25.26	24	
17+93	HWY. 64 (WEST)	7.92	23.13	18	
20+15	HWY. 64 (EAST)	9.08	21.8	19	
20+11	HWY. 64 (EAST)	9.08	14.94	13	
25+05	HWY. 64 (EAST)	10.25	27.42	27	
TOTAL:				101	

AVG. DEPTH = 16"

SELECTED PIPE BEDDING

LOCATION	SELECTED PIPE BEDDING CU.YD.
ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER	210
TOTAL:	210

NOTE: QUANTITY ESTIMATED.
SEE SECTION 104.03 OF THE STD. SPECS.

FENCING

STATION	STATION	LOCATION	WIRE FENCE
			(TYPE A) LIN. FT.
24+57	26+50	HWY. 64 (EAST) LT.	203
TOTAL:			203

EROSION CONTROL

STATION	STATION	LOCATION	PERMANENT EROSION CONTROL						TEMPORARY EROSION CONTROL										
			SEEDING ACRE	LIME TON	MULCH COVER ACRE	WATER M.GAL.	SECOND SEEDING APPLICATION ACRE	SOLID SODDING SQ.YD.	TEMPORARY SEEDING ACRE	MULCH COVER ACRE	WATER M.GAL.	FILTER SOCKS (18") LIN. FT.	SAND BAG DITCH CHECKS BAG	ROCK DITCH CHECKS CU.YD.	DROP INLET SILT FENCE LIN. FT.	SILT FENCE LIN. FT.	SEDIMENT BASIN CU.YD.	OBLITERATION OF SEDIMENT BASIN CU.YD.	*SEDIMENT REMOVAL & DISPOSAL CU. YD.
ENTIRE PROJECT	PROJECT	CLEARING AND GRUBBING									46	396	48		1772			102	
ENTIRE PROJECT	PROJECT	STAGE 1									368	264	30					38	
ENTIRE PROJECT	PROJECT	STAGE 2									161							7	
*ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.			3.97	7.94	3.97	452.6	3.97	3786	4.77	4.77	97.3	100	100		100		100	104	
TOTALS:			3.97	7.94	3.97	452.6	3.97	3786	4.77	4.77	97.3	675	760	78	100	1772	100	100	251

BASIS OF ESTIMATE:
LIME 2 TONS / ACRE OF SEEDING
WATER 102.0 M.G. / ACRE OF SEEDING
WATER 20.4 M.G. / ACRE OF TEMPORARY SEEDING
WATER 12.6 GAL. / SQ. YD. OF SOLID SODDING
FILTER SOCKS 23 LIN. FT./LOCATION
SAND BAG DITCH CHECKS 22 BAGS / LOCATION
ROCK DITCH CHECKS 3 CU.YD./LOCATION

NOTE: THE TEMPORARY EROSION CONTROL DEVICES SHOWN ABOVE AND ON THE PLANS SHALL BE INSTALLED IN SUCH A SEQUENCE AS TO DETER EROSION AND SEDIMENTATION ON U.S. WATERWAYS AS EXPLAINED BY THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT.

*QUANTITIES ESTIMATED.
SEE SECTION 104.03 OF THE STD. SPECS.

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SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM	QUANTITY	UNIT
201	CLEARING	18	STATION
201	GRUBBING	18	STATION
202	REMOVAL AND DISPOSAL OF CURB AND GUTTER	809	LN. FT.
202	REMOVAL AND DISPOSAL OF FENCE	266	LN. FT.
202	REMOVAL AND DISPOSAL OF DROP INLETS	3	EACH
202	REMOVAL AND DISPOSAL OF PIPE CULVERTS	5	EACH
202	REMOVAL AND DISPOSAL OF HEADWALLS	5	EACH
202	REMOVAL AND DISPOSAL OF SIGNS	9	EACH
SP & 202	REMOVAL AND DISPOSAL OF LUMINAIRE POLE AND FOUNDATION	2	EACH
SS & 206	FLOWABLE SELECT MATERIAL	11	CU. YD.
SP, SS, & 210	UNCLASSIFIED EXCAVATION	15731	CU. YD.
SP & 210	COMPACTED EMBANKMENT	8592	CU. YD.
SP & 210	SOIL STABILIZATION	100	TON
SP, SS, & 303	AGGREGATE BASE COURSE (CLASS 7)	1877	TON
SP, SS, & 309	PORTLAND CEMENT CONCRETE BASE (5" UNIFORM THICKNESS)	189	SQ. YD.
SP, SS, & 309	PORTLAND CEMENT CONCRETE BASE (10" UNIFORM THICKNESS)	733	SQ. YD.
SS & 401	TACK COAT	1646	GAL.
SP, SS, & 405	MINERAL AGGREGATE IN ACHM BASE COURSE (1 1/2")	1269	TON
SP, SS, & 405	ASPHALT BINDER (PG 64-22) IN ACHM BASE COURSE (1 1/2")	57	TON
SP, SS, & 406	MINERAL AGGREGATE IN ACHM BINDER COURSE (1")	652	TON
SP, SS, & 406	ASPHALT BINDER (PG 64-22) IN ACHM BINDER COURSE (1")	31	TON
SP, SS, & 407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (3/8")	3148	TON
SP, SS, & 407	ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (3/8")	1	TON
SP, SS, & 407	ASPHALT BINDER (PG 70-22) IN ACHM SURFACE COURSE (3/8")	210	TON
SP & 412	COLD MILLING ASPHALT PAVEMENT	2359	SQ. YD.
SP, SS, & 414	ASPHALT CONCRETE PATCHING FOR MAINTENANCE OF TRAFFIC	10	TON
SP, SS, & 501	PORTLAND CEMENT CONCRETE PAVEMENT (11" UNIFORM THICKNESS)	536	SQ. YD.
SP, SS, & 505	PORTLAND CEMENT CONCRETE DRIVEWAY	15377	SQ. YD.
601	MOBILIZATION	1.00	LUMP SUM
SP & 602	FURNISHING FIELD OFFICE	1	EACH
SS & 603	MAINTENANCE OF TRAFFIC	1.00	LUMP SUM
SS & 604	SIGNS	257	SQ. FT.
SS & 604	TRAFFIC DRUMS	174	EACH
SS & 604	VERTICAL PANELS	20	EACH
604	CONSTRUCTION PAVEMENT MARKINGS	9884	LN. FT.
604	CONSTRUCTION PAVEMENT MARKINGS (ARROWS)	1	EACH
604	REMOVAL OF CONSTRUCTION PAVEMENT MARKINGS	1	EACH
SP, SS, & 605	CONCRETE DITCH PAVING (TYPE B)	1182	LN. FT.
SS & 606	18" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	721	SQ. YD.
SS & 606	18" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	140	LN. FT.
SS & 606	18" SMOOTH LINED POLYMER PRECOATED METALLIC COATED CORRUGATED STEEL PIPE (ALTERNATE NO. 1)	1304	LN. FT.
SS & 606	24" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	1304	LN. FT.
SS & 606	24" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	7	LN. FT.
SS & 606	24" SMOOTH LINED POLYMER PRECOATED METALLIC COATED CORRUGATED STEEL PIPE (ALTERNATE NO. 1)	384	LN. FT.
SS & 606	30" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	384	LN. FT.
SS & 606	30" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	122	LN. FT.
SS & 606	30" SMOOTH LINED POLYMER PRECOATED METALLIC COATED CORRUGATED STEEL PIPE (ALTERNATE NO. 1)	430	LN. FT.
SS & 606	36" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	430	LN. FT.
SS & 606	42" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	67	LN. FT.
SS & 606	18" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS	105	LN. FT.
SS & 606	20" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS	1	EACH
SS & 606	34" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS	1	EACH
SS & 606	36" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS	3	EACH
SS & 606	42" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS	2	EACH
SS & 606	SELECTED PIPE BEDDING	2	EACH
SS & 609	DROP INLETS (TYPE C)	210	CU. YD.
SS & 609	DROP INLETS (TYPE E)	3	EACH
SS & 609	DROP INLETS (TYPE MO)	1	EACH
SS & 609	JUNCTIONBOXES (TYPE E)	19	EACH
SS & 609	DROP INLET EXTENSIONS (4')	2	EACH
SS & 609	DROP INLET EXTENSIONS (8')	12	EACH
SS & 615	PAVEMENT REPAIR OVER CULVERTS (ASPHALT)	1	EACH
SS & 619	WIRE FENCE (TYPE A)	101	TON
620	LIME	203	LN. FT.
620	SEEDING	8	TON
SS & 620	MULCH COVER	3.97	ACRE
620	WATER	8.74	ACRE
621	TEMPORARY SEEDING	538.1	M. GAL.
621	SILT FENCE	4.77	ACRE
621	SAND BAG DITCH CHECKS	1772	LN. FT.
621	DROP INLET SILT FENCE	760	BAG
621	SEDIMENT BASIN	100	LN. FT.
621	OBLITERATION OF SEDIMENT BASIN	100	CU. YD.
621	SEDIMENT REMOVAL AND DISPOSAL	100	CU. YD.
621	ROCK DITCH CHECKS	251	CU. YD.
SS & 621	FILTER SOCK (18")	78	CU. YD.
623	SECOND SEEDING APPLICATION	675	LN. FT.
624	SOLID SODDING	3.97	ACRE
626	EROSION CONTROL MATTING (CLASS 3)	4440	SQ. YD.
SP, SS, & 632	CONCRETE ISLAND	941	SQ. YD.
SS & 634	CONCRETE COMBINATION CURB AND GUTTER (TYPE A) (1' 6")	957	SQ. YD.
SS & 634	CONCRETE COMBINATION CURB AND GUTTER (TYPE E-1) (2' 0")	3020	LN. FT.
635	ROADWAY CONSTRUCTION CONTROL	440	LN. FT.
637	MAILBOXES	1.00	LUMP SUM
637	MAIL BOX SUPPORTS (SINGLE)	1	EACH
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/8 A.W.G. E.G.C.)	1	EACH
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/10 A.W.G. E.G.C.)	850	LN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/16 A.W.G. E.G.C.)	1400	LN. FT.
SP	ELECTRICAL CONDUCTORS FOR LUMINAIRES	1200	LN. FT.
710	NON-METALLIC CONDUIT (2")	630	LN. FT.
SP, SS, & 711	CONCRETE PULL BOX (TYPE 2 HD)	2300	LN. FT.
SP	LED ROADWAY ILLUMINATION POLE (18,700 LUMENS, DECORATIVE, T-BASE, 30')	19	EACH
SP	PEDESTAL TYPE SERVICE POINT (100 AMP)	14	EACH
718	REFLECTORIZED PAINT PAVEMENT MARKING WHITE (1/2")	1	EACH
718	REFLECTORIZED PAINT PAVEMENT MARKING YELLOW (1/2")	119	LN. FT.
719	THERMOPLASTIC PAVEMENT MARKING WHITE (6")	1505	LN. FT.
719	THERMOPLASTIC PAVEMENT MARKING WHITE (12")	1167	LN. FT.
719	THERMOPLASTIC PAVEMENT MARKING YELLOW (6")	31	LN. FT.
719	THERMOPLASTIC PAVEMENT MARKING YELLOW (12")	2991	LN. FT.
719	THERMOPLASTIC PAVEMENT MARKING YELLOW (18")	1626	LN. FT.
719	THERMOPLASTIC PAVEMENT MARKING (ARROWS)	4	EACH
719	THERMOPLASTIC PAVEMENT MARKING (BKE EMBLEMS)	2	EACH
719	THERMOPLASTIC PAVEMENT MARKING (YIELD LINE)	1	EACH
721	RAISED PAVEMENT MARKERS (TYPE II)	51	LN. FT.
SS & 725	GUIDE SIGN-ROADSIDE MOUNTED (DEMOUNTABLE LEGEND)	85	SQ. FT.
SS & 726	STANDARD SIGN	176	SQ. FT.
SS & 730	BREAKAWAY SIGN SUPPORT (TYPE G-2)	698	POUND
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G-1)	15	EACH
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G-2)	3	EACH
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G-3)	3	EACH
SP, SS, & 802	UNCLASSIFIED EXCAVATION FOR STRUCTURES-ROADWAY	104	CU. YD.
SP	CLASS S CONCRETE-ROADWAY	30.91	CU. YD.
SS & 804	TEXTURED COATING FINISH	42	SQ. YD.
SS & 816	REINFORCING STEEL-ROADWAY (GRADE 60)	3887	POUND
SS & 816	FILTER BLANKET	78	SQ. YD.
SS & 816	DUMPED RPRAP	70	CU. YD.

* DENOTES ALTERNATE BID ITEMS.

REVISIONS

DATE	REVISION	SHEET NUMBER
6/10/2024	ADDED FED. AID PROJ. NUMBER, ADDED SS 102-3 "PREQUALIFICATION OF BIDDERS", ADDED SP "ELECTRICAL CONDUCTORS FOR LUMINAIRES", "LED ROADWAY ILLUMINATION POLE", AND "PEDESTAL TYPE SERVICE POINT". REVISED SP "CONCRETE PULL BOX" AND "ELECTRICAL CONDUCTORS-IN-CONDUIT". REMOVED SP "ROADWAY ILLUMINATION ASSEMBLY" AND "SERVICE POINT ASSEMBLY (UNDERGROUND SECONDARY SERVICE, ROADWAY LIGHTING)". REVISED SUMMARY OF QUANTITIES FOR LIGHTING SP AND PLAN REVISIONS. REVISED "ELECTRICAL CONDUCTORS-IN-CONDUIT (C/A W.G. ___)" PAY ITEM NAMES AND QUANTITIES. REVISED CONCRETE PULL BOX, ROADWAY ILLUMINATION POLE, AND SERVICE POINT PAY ITEM NAMES. ADDED "ELECTRICAL CONDUCTORS FOR LUMINAIRES" PAY ITEM AND QUANTITY. REVISED ELECTRICAL LEGEND AND NOTES, LIGHTING INSTALLATION PLAN, AND ELECTRICAL DETAILS. REVISED DRIVEWAYS & TURNOUTS ASPHALT BINDER CONTENT TO MATCH BASE AND SURFACING ASPHALT BINDER CONTENT.	1, 3, 23, 27, 38, 40, 43-44

CONSTRUCTION NOTES:

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE (NFPA70, CURRENT EDITION), LIFE SAFETY CODE (NFPA 101, CURRENT EDITION), UNDERGROUND FACILITIES DAMAGE PREVENTION ACT (§4-271-101 ET SEQ.), AND LOCAL ELECTRICAL CODE. IN ADDITION, ALL PARTS OF THIS INSTALLATION SHALL BE IN ACCORDANCE WITH THE ARKANSAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE DOCUMENTATION TO PROJECT ENGINEER, TO ENSURE ARKANSAS STATE CODES (14-28-101 ET SEQ. AND 20-31-101 ET SEQ.) ARE MET. THE DOCUMENTATION SHALL INCLUDE:
 - ELECTRICIANS' LICENSE INFORMATION AND EXPIRATION DATE.
 - THE RATIO OF LICENSED-ELECTRICIAN-TO-APPRENTICE-ELECTRICIANS.
 - PRINTED SEARCH RESULT OF LICENSED ELECTRICIANS FROM ARKANSAS DEPARTMENT OF LABOR ELECTRICIAN LICENSE DIRECTORY (<https://www.ark.gov/labor/electrician/search.php>) ALL LICENSES SHALL BE VALID AND CURRENT
- THE CONTRACTOR SHALL NOT ENGAGE IN EXCAVATION OR DEMOLITION ACTIVITIES WITHOUT HAVING FIRST NOTIFIED THE ARKANSAS ONE CALL CENTER IN ACCORDANCE WITH UNDERGROUND FACILITIES DAMAGE PREVENTION ACT. NOT ALL UTILITY COMPANIES ARE MEMBERS OF THE ARKANSAS ONE CALL SYSTEM. THE CONTRACTOR IS ADVISED TO CONTACT ALL NON-MEMBER UTILITIES AS WELL AS THE ONE CALL CENTER.
- UNDERGROUND UTILITIES EXIST WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION. SOME UTILITIES MAY HAVE BEEN RELOCATED SINCE THE TIME OF DESIGN AND THE CONTRACTOR'S NOTICE TO PROCEED. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES INVOLVED AND VERIFY THE LOCATIONS OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL IT IS NO LONGER NECESSARY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS OF REPAIR OR REPLACEMENT OF EXISTING UTILITIES DAMAGED DURING THE CONSTRUCTION.
- ANY EQUIPMENT OR APPURTENANCE THAT INTERFERES WITH THE PROPOSED CONSTRUCTION AND WHICH MAY BE THE PROPERTY OF UTILITY SERVICE ORGANIZATIONS SHALL BE MOVED BY THE OWNERS UNLESS OTHERWISE NOTED.
- CONDUIT INSTALLED UNDER ROADWAY SURFACES SHALL BE INSTALLED BY A PUSHING OR BORING METHOD OR AS DIRECTED BY ENGINEER. PVC OR HDPE CONDUIT SHALL BE USED. PVC CONDUIT SHALL BE MARKED "DIR, BORING" OR "DIRECTIONAL BORING" AS PER NEC.
- NON-DESTRUCTIVE MEG TEST AND CURRENT LEAKAGE TEST SHALL BE PERFORMED ON NEW CONDUCTORS, IN THE PRESENCE OF FIELD INSPECTOR. THE TEST VOLTAGE SHALL BE LIMITED TO 600 VOLTS. ANY CONDUCTORS NOT MEETING THE MINIMUM ACCEPTABLE VALUE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE USING NEW CONDUCTOR. THE RESULTS SHALL BE DOCUMENTED AND PROVIDED TO THE JOB ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES CAUSED BY MEG TEST WHILE DEVICES OR ACCESSORIES ARE STILL CONNECTED AND SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. SEE ELECTRICAL SPECIAL PROVISIONS.
- PULL BOX LIDS SHALL CLOSE FLUSH WITHOUT PINCHING ANY CONDUCTORS. CONDUIT LENGTHS IN PULL BOXES SHALL BE SET ACCORDINGLY. ANY CONDUCTORS THAT HAVE BEEN DAMAGED BY PINCHING SHALL BE COMPLETELY REPLACED AT CONTRACTOR'S EXPENSE.
- EACH ROADWAY ILLUMINATION POLE SHALL BE BONDED TO EQUIPMENT GROUNDING CONDUCTOR PER NEC. SEE ARTICLES 250 AND 410.
- ALL ELECTRICAL COMPONENTS SHALL BE UL LISTED.
- ALL LUMINAIRE ASSEMBLIES SHALL HAVE BUG RATING OF U-0.
- BEFORE FINAL ACCEPTANCE, CONTRACTOR SHALL PROVIDE TWO (2) SETS OF LEDGER SIZE (11" X 17") AS-BUILT PLANS TO THE MAINTENANCE AUTHORITY AND ARDOT.
- PULL CABLE SHALL BE MINIMUM 1/4" PULL NYLON OR POLYESTER ROPE, OR 1200 LBS PULL TAPE WHEN PULLING CONDUCTORS. STEEL CABLE OR FISH TAPE SHALL NOT BE USED. CONNECT PULLING DEVICES TO COPPER WIRE AND NOT TO JACKET. USE PULLING COMPOUND PER MANUFACTURER'S REQUIREMENTS. ALL BENDS SHALL NOT BE LESS THAN RECOMMENDED BY NEC FOR CONDUCTORS USED.
- ALL CONCRETE PULL BOXES SHALL BE TYPE 2 HD UNLESS OTHERWISE INDICATED ON THE PLANS.
- SLACK CABLES IN PULL BOXES SHALL BE 3 FEET.
- CONDUCT A MINIMUM 14-DAY BURN TEST FOR THE COMPLETE LIGHTING SYSTEM. REPLACE BURNED OUT AND NOTICEABLY DIM LUMINAIRES; MALFUNCTIONING EQUIPMENT SHALL BE CORRECTED, AND RETEST THE SYSTEM. OTHERWISE REMOVE AND REPLACE WITH NEW EQUIPMENT.
- SEE STANDARD DRAWING SD-6 FOR PULL BOX CONSTRUCTION.
- ALL METAL POLES SHALL BE BONDED TO E.G.C. PER NEC 410 PART IV AND PART V.
- THE CONTRACTOR SHALL LABEL ALL CONDUCTORS IN PULL BOXES AND AT SPLICE POINTS.
- CONDUCTORS SHALL CONTINUOUSLY RUN DIRECTLY FROM SERVICE POINTS TO ELECTRICAL DEVICES AND/OR PULL BOXES WITHOUT SPLICES BEING MADE IN THE CONDUIT. ANY CONDUCTORS THAT HAVE BEEN DAMAGED BY PINCHING SHALL BE COMPLETELY REPLACED AT THE CONTRACTOR'S EXPENSE.
- ALL SPLICES SHALL BE WATERTIGHT AND UL-LISTED FOR CONTINUOUS USE IN SUBMERSIBLE INSTALLATION.
- E.G.C. SHALL BE EXOTHERMICALLY BONDED TO GROUND ROD.

- 2C/.A.W.G.,# E.G.C. INDICATES TWO CURRENT CARRYING CONDUCTORS AND ONE E.G.C.
- FOUNDATION FOR ALL POLES SHALL BE EXTENDED IF NECESSARY TO ACCOMMODATE THE REQUIREMENT FOR CLEARANCE ABOVE ROADWAY AND MEET POLE SCHEDULE AT LOCATIONS WHERE THE GROUND ELEVATION AT THE POLE IS BELOW THE ELEVATION OF THE ROADWAY. POLE FOUNDATION SHALL BE AT THE SAME ELEVATION LEVEL OF THE ROADWAY. WORK WILL BE SUBSIDIARY TO THE LED ROADWAY ILLUMINATION POLE PAY ITEM.
- ELECTRICAL SERVICE SHALL BE PROVIDED BY THE CITY/COUNTY (MAINTENANCE AUTHORITY) TO A SERVICE POLE WITH EXTERNAL RAIN-TIGHT BREAKER (MAIN BREAKER), GALVANIZED STEEL SERVICE RISER, METER LOOP (IF REQUIRED), AND WEATHERHEAD AT A MUTUALLY ACCEPTABLE POINT WITHIN THE RIGHT-OF-WAY. THE CONTRACTOR SHALL PROVIDE THE SERVICE POINT ASSEMBLY PER PLANS SET AND CONTRACT PRIOR TO THE DATE ELECTRICAL COMPANIES PROVIDE SERVICE.
- CONTRACTOR SHALL ATTACH A PERMANENT TAG OF RIGID PLASTIC OR NON-FERROUS METAL TO EACH CONDUIT AT PULLBOXES, POLE BASES, AND JUNCTION BOXES. TAGS SHALL BE EMBOSSED, STAMPED, OR ENGRAVED WITH LETTERS 1/4" OR GREATER IN HEIGHT AND SECURED TO THE CONDUIT WITH NYLON OR PLASTIC TIES. EACH TAG SHALL INDICATE THE END LOCATION OF CONDUIT RUN. THE COST OF THE TAGS SHALL BE SUBSIDIARY TO THE CONDUIT PAY ITEM.

EXAMPLES FOR CONDUIT:

 - SERVICE POINT TO PULL BOX 1 (SP TO PB-1)
 - PULL BOX 1 TO SERVICE POINT (PB-1 TO SP)
 - PULL BOX 1 TO PULL BOX 2 (PB-1 TO PB-2)
- CONDUIT BELL END FITTINGS SHALL BE INSTALLED ON ALL TERMINATING ENDS OF NON-METALLIC CONDUIT RUNS. THIS INCLUDES PULL BOXES AND POLE BASES. THE COST OF THE FITTINGS SHALL BE CONSIDERED SUBSIDIARY TO THE PAY ITEM. ALL NON-METALLIC CONDUIT SHALL USE LONG SWEEP 90 DEGREE ELBOWS ON ALL CONDUIT BENDS.
- CONDUIT SHALL BE BURIED NOT LESS THAN 18" DEPTH BELOW THE FINAL GRADE, AND MINIMUM 24" DEPTH UNDER THE ROADWAY AND SIDEWALK, UNLESS OTHERWISE INDICATED ON THE PLANS.
- PRIOR TO THE ORDERING OF ALL LIGHTING EQUIPMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A COPY OF THE APPLICABLE BROCHURES CONTAINING THE DESIGN CRITERIA FOR THE EQUIPMENT WHICH THE CONTRACTOR PROPOSES TO INSTALL FOR APPROVAL. THE SPECIFIC ITEMS THAT ARE PROPOSED FOR USE SHALL BE CLEARLY MARKED IN THE APPLICABLE BROCHURES. A LIST SHALL BE ATTACHED TO IDENTIFY THE PAY ITEM AND CONTAIN THE MANUFACTURER, QUANTITY, MODEL, AND IDENTIFYING DESCRIPTIONS OF EACH ITEM. ADEQUATE ENGINEERING DATA, ESSENTIAL SHOP DRAWINGS, AND SCHEMATIC DIAGRAMS SHALL BE PROVIDED FOR REVIEW. PARTIAL SUBMITTALS WILL NOT BE ACCEPTED FOR CONSIDERATION AND SHALL BE RETURNED FOR CORRECTION WITHOUT REVIEW.

IF ENGINEER DETERMINED THAT THE EQUIPMENT SUBMITTAL MEETS THE DESIGN CRITERIA, AN APPROVAL WILL BE PROVIDED. IF THE EQUIPMENT SUBMITTAL FOR USE IS REJECTED, THE CONTRACTOR SHALL RE-SUBMIT THE EQUIPMENT SUBMITTAL WITHIN FIFTEEN (15) DAYS OF NOTIFICATION OF EQUIPMENT REJECTION. THE EQUIPMENT RE-SUBMITTAL WILL BE CONSIDERED THE STARTING POINT OF A NEW APPROVAL CYCLE AS DESCRIBED.

ELECTRICAL SYMBOLS LEGEND

- EXISTING DECORATIVE LIGHT FIXTURE TO BE REMOVED AND FOUNDATION DEMOLISHED, SEE NOTES, PLANS AND SCHEDULES FOR MORE INFORMATION.
- EXISTING DECORATIVE LIGHT FIXTURE TO REMAIN, SEE NOTES, PLANS AND SCHEDULES FOR MORE INFORMATION.
- NEW LUMINAIRE, ARM, LIGHT POLE, FOUNDATION AND PULLBOX ASSEMBLY, SEE NOTES, PLANS AND SCHEDULES FOR MORE INFORMATION.
- REMOVE EXISTING STREET LIGHTING CIRCUIT(S) AND ABANDON CONDUIT
- EXISTING STREET LIGHTING CIRCUIT(S) AND CONDUIT TO REMAIN
- CONDUIT & WIRE AS NOTED IN NOTES AND IN SCHEDULES.
- PULL BOX
- RELAY CONTACT, NORMALLY OPEN.
- CIRCUIT BREAKER, TRIP RATING SHOWN, 2-POLE UNLESS NOTED OTHERWISE.
- SURGE PROTECTIVE DEVICE WITH INDICATING LIGHTS.
- 3/4" x 10' COPPER CLAD GROUND ROD.
- SERVICE POINT LOCATION
- 20 AMP DUPLEX RECEPTACLE, WITH GROUND WIRE, "GFCI" INDICATES GROUND FAULT CIRCUIT INTERRUPTER.

ABBREVIATIONS

A	AMP	LO	LUGS ONLY
ABC	ABOVE COUNTER	LOR	LOCAL-OFF-REMOTE
ACS	ACCESS CONTROL SYSTEM	LSI	LONG, SHORT, INSTANTANEOUS
ACU	AIR CONDITIONING UNIT	LSIG	LONG, SHORT, INSTANTANEOUS, GROUND
AHU	AIR HANDLING UNIT	LV	LOW VOLTAGE
AIC	AMPS INTERRUPTING CAPACITY	MCB	MAIN CIRCUIT BREAKER
AM	AMP-METER	MCC	MOTOR CONTROL CENTER
ANN	ANNUNCIATOR	MCP	MOTOR CIRCUIT PROTECTOR
AP	AERIAL PRIMARY	MFR	MANUFACTURER
AS	AERIAL SECONDARY	MIN	MINIMUM
ATS		MLO	MAIN LUGS ONLY
AUX	AUXILIARY	MN	MASS NOTIFICATION
BFI	BLOWN FUSE INDICATOR	MON	MONACO
BI	BYPASS ISOLATION	MS	MOTOR STARTER
BKR	BREAKER	MTS	MANUAL TRANSFER SWITCH
C	CONDUIT	N	NEUTRAL
CB	CIRCUIT BREAKER	NFDS	NON-FUSED DISCONNECT SWITCH
CCTV	CLOSED CIRCUIT TELEVISION	NL	NIGHT LIGHT
CGRS	PVC COATED GALVANIZED RIGID STEEL	OH	OVERHEAD
		OHP	OVERHEAD PRIMARY
CKT	CIRCUIT	OHS	OVERHEAD SECONDARY
COM	COMMON	OL	OVERLOAD
CONT	CONTINUOUS	PB	PUSH BUTTON
CP	CONTROL PANEL	PEC	PHOTO ELECTRIC CELL
CPT	CONTROL POWER TRANSFORMER	PF	POWER FACTOR
CR	CONTROL RELAY	PFCC	POWER FACTOR CORRECTION CAPACITOR
CRI	COLOR RENDERING INDEX	PL	PILOT LIGHT
CS	CORD SET	PMR	PHASE MONITOR RELAY
CJ	COEFFICIENT OF UTILIZATION	PNL	PANEL
DEB	DIRECT EARTH BURIED	PTT	PUSH-TO-TEST
EC	EMPTY OR EMBEDDED CONDUIT	PTZ	PAN-TILT-ZOOM
EF	EXHAUST FAN	PVC	SCHEDULE 40 POLYVINYL CONDUIT
EG	EQUIPMENT GROUND	RECPT	RECEPTACLE
EL	ELEVATION	RVAT	REDUCED VOLTAGE AUTO-TRANSFORMER STARTER
EMT	ELECTRICAL METALLIC TUBING	SA	SURGE ARRESTER
ETM	ELAPSED TIME METER	SDBC	SOFT DRAWN BARE COPPER
FC	FAN COIL	SE	SERVICE ENTRANCE
FDS	FUSED DISCONNECT SWITCH	SN	SOLID NEUTRAL
FOC	FIBER OPTIC CABLE	SPD	SURGE PROTECTIVE DEVICE
FVNR	FULL VOLTAGE NON-REVERSING STARTER	SS	STAINLESS STEEL
FVR	FULL VOLTAGE REVERSING STARTER	STA	STATION
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SW	SWITCH
GND	GROUND	TC	TIME CLOCK
GRS	GALVANIZED RIGID STEEL	TD	TIME DELAY
HID	HIGH INTENSITY DISCHARGE	TD	TIME DELAY ON DE-ENERGIZATION
HOA	HAND-OFF-AUTO	TDE	TIME DELAY ON ENERGIZATION
HP	HORSEPOWER OR HEAT PUMP	TEL	TELEPHONE
IDS	INTRUSION DETECTION SYSTEM	THD	TOTAL HARMONIC DISTORTION
HR	HOUR	TMGB	TELECOMMUNICATIONS MAIN GROUND BAR
IG	ISOLATED GROUND	TGB	TELECOMMUNICATIONS GROUND BAR
ISP	INDIVIDUALLY SHIELDED PAIR	TR	TAMPER RESISTANT
JB	JUNCTION BOX	UG	UNDERGROUND
KV	KILOVOLT-AMPERE	UGE	UNDERGROUND ELECTRIC
KVAR	KILOVOLT-AMPERE, REACTIVE	UGP	UNDERGROUND PRIMARY
KW	KILOWATT	UGS	UNDERGROUND SECONDARY
LA	LIGHTNING ARRESTER	UH	UNIT HEATER
LC	LIGHTING CONTACTOR	UON	UNLESS OTHERWISE NOTED
LLF	LIGHT LOSS FACTOR	UTP	UNSHIELDED TWISTED PAIR
		V	VOLT
		VA	VOLT-AMP
		VFD	VARIABLE FREQUENCY DRIVE
		VM	VOLT-METER
		W	WATT OR WIRE
		WAP	WIRELESS ACCESS POINT
		WH	WEATHER HEAD
		WM	WATT METER
		WP	WEATHERPROOF
		XFMR	TRANSFORMER

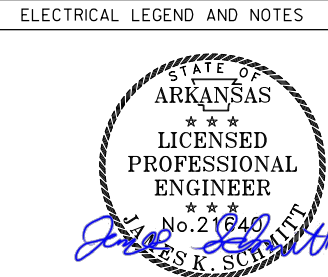
GENERAL NOTES:

- SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET BUT NOT BE UTILIZED ON THE PROJECT.
- LIGHTING LEGEND SHOWS EXAMPLE IDENTIFIERS. REFER TO LIGHT FIXTURE SCHEDULE FOR SPECIFIC REQUIREMENTS.
- ALL PARTS OF THIS INSTALLATION SHALL BE IN ACCORDANCE WITH THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARDS AND DETAILS, AND WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITIONS.
- CONDUIT INSTALLED UNDER ROADWAY SECTIONS SHALL BE INSTALLED BY PUSHING OR BORING METHODS. IF THE ENGINEER DETERMINES THIS IS NOT FEASIBLE, THEN A TRENCHING METHOD MAY BE USED.
- CONTRACTOR MAY USE HDPE OR PVC FOR BORING. SECTIONAL PVC SHALL BE UL LISTED AND MARKED FOR USE IN DIRECTIONAL BORING.

SUMMARY OF LIGHTING QUANTITIES

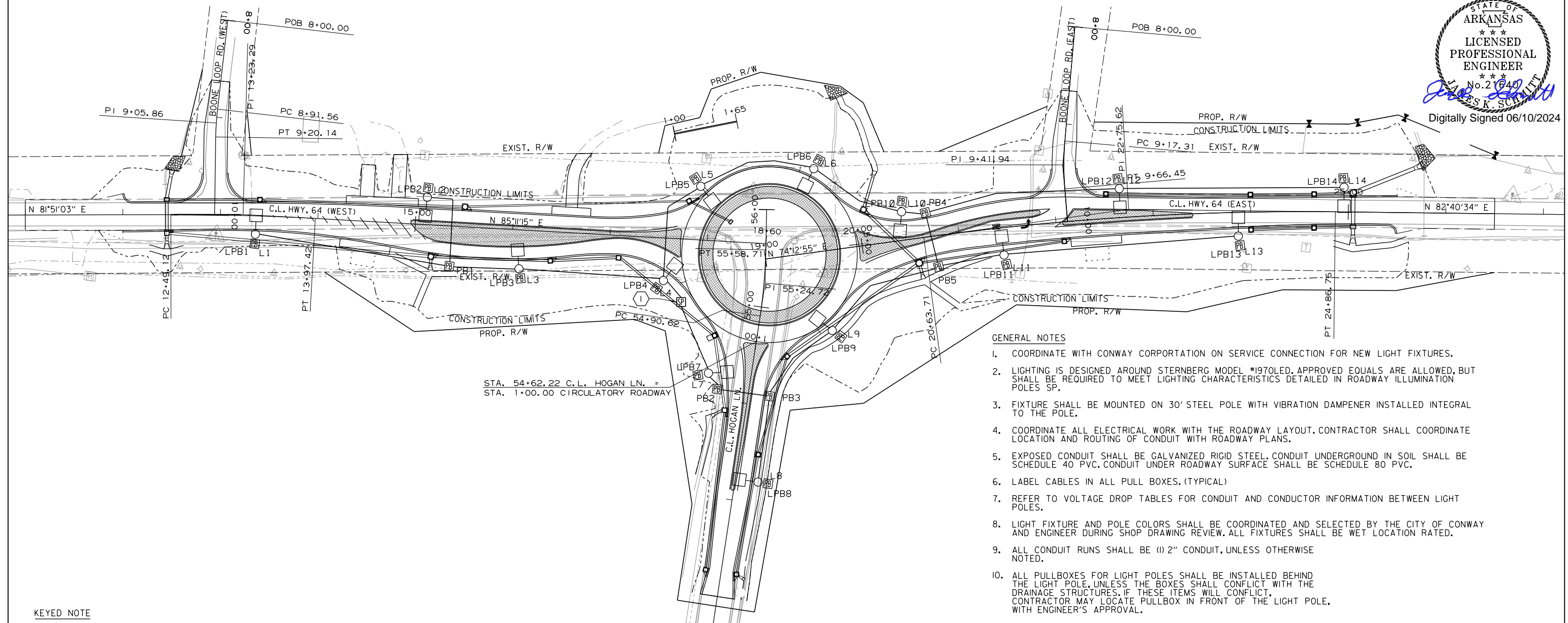
ITEM NO.	ITEM	QUANTITIES TOTAL	UNIT
SP&202	REMOVAL AND DISPOSAL OF LUMINAIRE POLE AND FOUNDATION	2	EACH
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/8 A.W.G., E.G.C.)	850	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/10 A.W.G., E.G.C.)	1400	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/6 A.W.G., E.G.C.)	1200	LIN. FT.
SP	ELECTRICAL CONDUCTORS FOR LUMINAIRES	630	LIN. FT.
710	NON-METALLIC CONDUIT (2")	2300	LIN. FT.
SP,SS,&711	CONCRETE PULL BOX (TYPE 2 HD)	19	EACH
SP	LED ROADWAY ILLUMINATION POLE (18,700 LUMENS, DECORATIVE, T-BASE, 30')	14	EACH
SP	PEDESTAL TYPE SERVICE POINT ASSEMBLY (100 AMP)	1	EACH

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
6/10/2024		6	ARK.	080634	38	80



Digitally Signed 06/10/2024

6/10/2024 7:36:11 AM
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 REVISION DATE:



- GENERAL NOTES**
- COORDINATE WITH CONWAY CORPORATION ON SERVICE CONNECTION FOR NEW LIGHT FIXTURES.
 - LIGHTING IS DESIGNED AROUND STERNBERG MODEL #1970LED. APPROVED EQUALS ARE ALLOWED, BUT SHALL BE REQUIRED TO MEET LIGHTING CHARACTERISTICS DETAILED IN ROADWAY ILLUMINATION POLES SP.
 - FIXTURE SHALL BE MOUNTED ON 30' STEEL POLE WITH VIBRATION DAMPENER INSTALLED INTEGRAL TO THE POLE.
 - COORDINATE ALL ELECTRICAL WORK WITH THE ROADWAY LAYOUT. CONTRACTOR SHALL COORDINATE LOCATION AND ROUTING OF CONDUIT WITH ROADWAY PLANS.
 - EXPOSED CONDUIT SHALL BE GALVANIZED RIGID STEEL. CONDUIT UNDERGROUND IN SOIL SHALL BE SCHEDULE 40 PVC. CONDUIT UNDER ROADWAY SURFACE SHALL BE SCHEDULE 80 PVC.
 - LABEL CABLES IN ALL PULL BOXES. (TYPICAL)
 - REFER TO VOLTAGE DROP TABLES FOR CONDUIT AND CONDUCTOR INFORMATION BETWEEN LIGHT POLES.
 - LIGHT FIXTURE AND POLE COLORS SHALL BE COORDINATED AND SELECTED BY THE CITY OF CONWAY AND ENGINEER DURING SHOP DRAWING REVIEW. ALL FIXTURES SHALL BE WET LOCATION RATED.
 - ALL CONDUIT RUNS SHALL BE (1) 2" CONDUIT, UNLESS OTHERWISE NOTED.
 - ALL PULLBOXES FOR LIGHT POLES SHALL BE INSTALLED BEHIND THE LIGHT POLE, UNLESS THE BOXES SHALL CONFLICT WITH THE DRAINAGE STRUCTURES. IF THESE ITEMS WILL CONFLICT, CONTRACTOR MAY LOCATE PULLBOX IN FRONT OF THE LIGHT POLE, WITH ENGINEER'S APPROVAL.

KEYED NOTE

① APPROXIMATE SERVICE POINT LOCATION, COORDINATE WITH CONWAY CORPORATION TO DETERMINE FINAL PLACEMENT.

POLE SCHEDULE							
POLE NO.	LIGHT FIXTURE	PULL BOX AT BASE	HEIGHT	ALIGNMENT	STATION	OFFSET	ORIENTATION ANGLE (PLAN NORTH=0°, ROTATION CCW)
L1	IX A	YES	30'	HWY. 64 (WEST)	13+43	18.7' RT.	358°
L2	IX A	YES	30'	HWY. 64 (WEST)	15+11	28.2' LT.	174°
L3	IX A	YES	30'	HWY. 64 (WEST)	16+09	39.8' RT.	4°
L4	IX A	YES	30'	HWY. 64 (WEST)	17+57	43.6' RT.	322°
L5	IX A	YES	30'	HWY. 64 (WEST)	17+90	54.9' LT.	217°
L6	IX A	YES	30'	HWY. 64 (EAST)	19+61	85.0' LT.	154°
L7	IX A	YES	30'	HOGAN LN.	54+25	43.5' LT.	274°
L8	IX A	YES	30'	HOGAN LN.	53+22	23.6' RT.	82°
L9	IX A	YES	30'	HWY. 64 (EAST)	19+58	81.8' RT.	52°
L10	IX A	YES	30'	HWY. 64 (EAST)	20+45	29.1' LT.	175°
L11	IX A	YES	30'	HWY. 64 (EAST)	21+43	27.9' RT.	7°
L12	IX A	YES	30'	HWY. 64 (EAST)	22+67	29.6' LT.	182°
L13	IX A	YES	30'	HWY. 64 (EAST)	23+87	24.4' RT.	0°
L14	IX A	YES	30'	HWY. 64 (EAST)	24+95	25.1' LT.	180°
SP-1	N/A	N/A	N/A	HWY. 64 (EAST)	17+76	64.6' RT.	310°

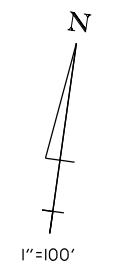
FIXTURE SCHEDULE					
TYPE	DESCRIPTION	DISTRIBUTION	LAMPS		REMARKS
		LUMEN OUTPUT (MINIMUM)	WATTS	TYPE	
A	FIXT STERN I-GL1970-S-BFS-40L40T2 -MDL012SA-R7-PE-HSHB OLD UBK	TYPE 2 18,700 LUMENS	158W	LED	120V 1,2,3,4

- FIXTURE SCHEDULE NOTES:**
- PROVIDE FIXTURES LISTED AND LABELED FOR WET LOCATION.
 - PROVIDE FIXTURE WITH A 7-PIN RECEPTACLE FOR FUTURE CONTROLS.
 - PROVIDE FIXTURE WITH 4000K COLOR TEMPERATURE.
 - PROVIDE FIXTURE WITH A BUG RATING OF U0.

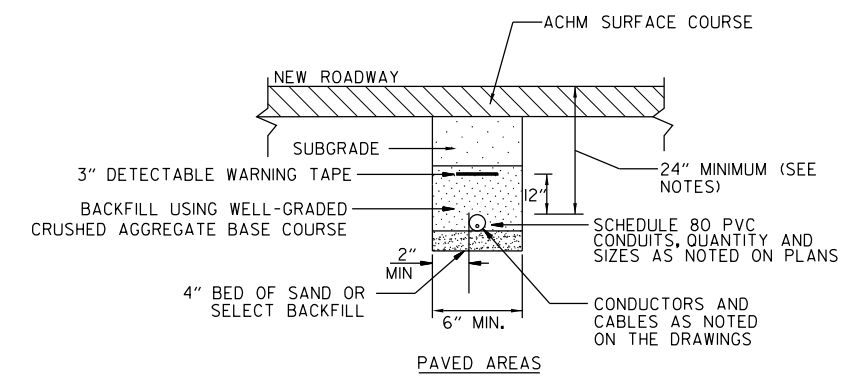
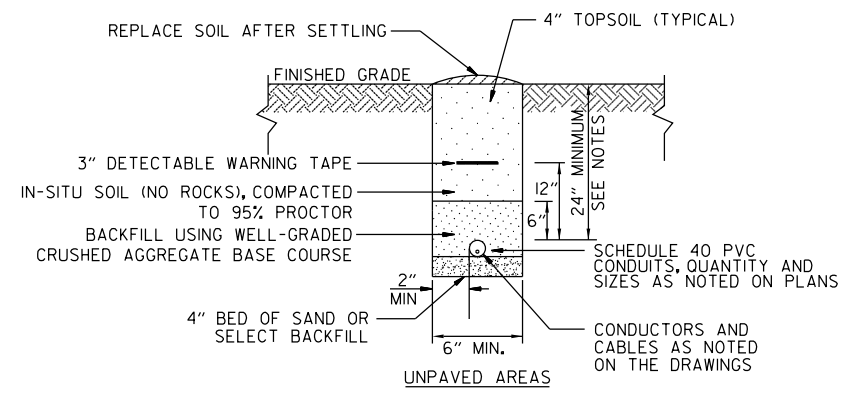
ILLUMINATION DESIGN CRITERIA TABLE		
DESCRIPTION	AVG	AVG/MIN
ROUNDAOUBTS AND APPROACHES	1.1 fc	4.0:1

CALCULATED STATISTICS (BASED ON 0.77 LLF)		
DESCRIPTION	AVG	AVG/MIN
ROUNDAOUBTS AND APPROACHES	1.6 fc	4.0:1

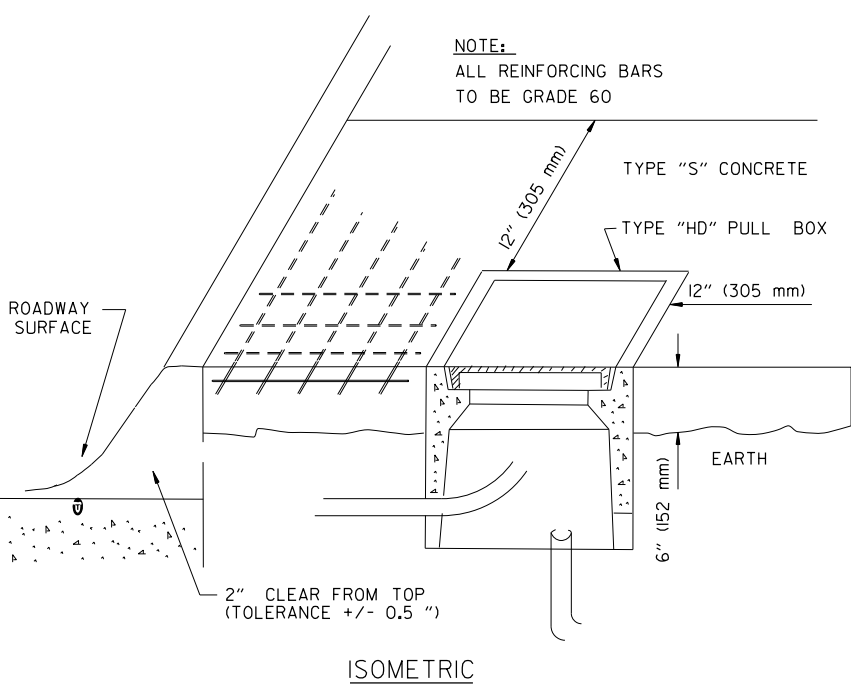
- LIGHTING CALCULATIONS NOTES:**
- LIGHTING CALCULATIONS WERE PERFORMED USING AGI32 VERSION 19.10 SOFTWARE.
 - LIGHTING LEVELS ARE IN FOOTCANDLE UNITS (fc).
 - DESIGN BASIS IS THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA, IESNA LIGHTING HANDBOOK, 10TH EDITION, IES RP-8-18, IES DG-19-08, AND AASHTO ROADWAY LIGHTING DESIGN GUIDE (OCT 2018).



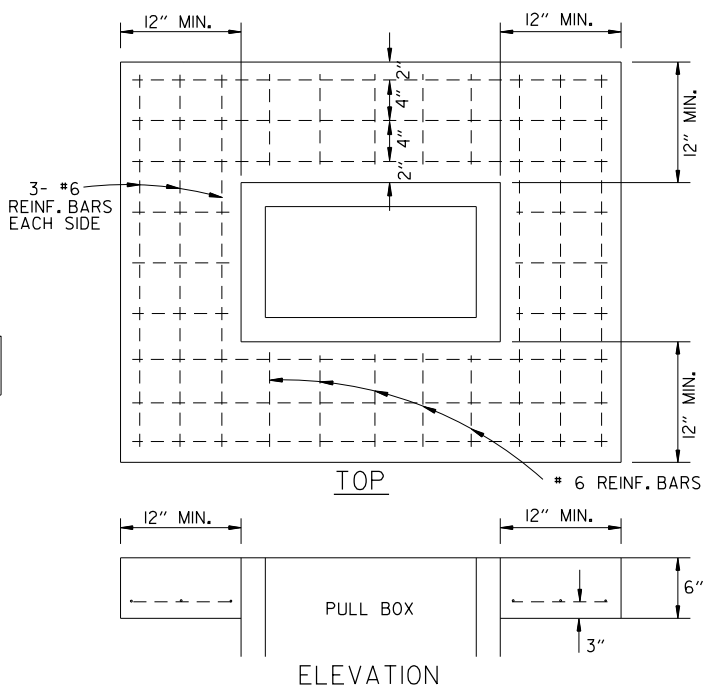
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A NON-ENCASED ELECTRICAL DUCT BANK DETAILS
SCALE: N.T.S.



ISOMETRIC



ELEVATION

B TYPE "HD" CONCRETE PULL BOX DETAIL
SCALE: N.T.S.

- ELECTRICAL DUCT NOTES:**
- CONTRACTOR SHALL STAKE THE DUCT INSTALLATION IN PLAN AND ELEVATION FOR NEW ELECTRICAL DUCTS TO AVOID EXISTING UTILITIES. STAKING PLAN SHALL BE APPROVED BY OWNER AND ENGINEER PRIOR TO WORK.
 - CONTRACTOR SHALL ADJUST THE DEPTH OF THE ELECTRICAL DUCTS AS REQUIRED TO MAINTAIN THE MINIMUM COVER REQUIREMENT INDICATED AND AVOID EXISTING AND NEW UTILITIES.
 - SIMILAR CONSTRUCTION FOR OTHER DUCT SIZES.
 - INSTALL DUCT CONDUIT SUPPORTS AT 5'-0" O.C. MAXIMUM SPACING. UTILIZE LOCKING COLLARS OR HOLD DOWN BARS WITH ANCHORS TO PREVENT DUCT FLOTATION. (TYPICAL ALL DUCTS).
 - NO PVC SHALL EMERGE FROM THE GROUND OR CONCRETE SLAB OR ENCASEMENT.
 - INSTALL CONDUCTORS AND CABLES AS NOTED ON DRAWING. INSTALL PULLWIRE IN ALL SPARE DUCTS/CONDUITS.
 - MINIMUM COVER REQUIREMENT FOR DUCT BANKS UNDER ROADS, DRIVEWAYS AND PARKING LOTS SHALL BE 24".
 - VERTICAL AND HORIZONTAL DISTANCES BETWEEN CONDUITS SHALL BE 3" MINIMUM FOR DUCTS CONTAINING CIRCUITS OVER 600 VOLTS.
 - END BELLS OR COUPLINGS WITH REMOVABLE FACTORY PLUGS SHALL BE INSTALLED FLUSH WITH THE CONCRETE ENCASEMENT AT ACCESS POINTS.
 - ROCK REMOVAL SHALL BE CONSIDERED SUBSIDIARY TO DUCT INSTALLATION.

KEYED NOTES:

- UTILITY TRANSFORMER BY CONWAY CORPORATION. SECONDARY SERVICE 240/120V, 1PHASE, 3W, COORDINATE ALL WORK AND EQUIPMENT WITH CONWAY CORPORATION
- 3*2, 2"C, UTILIZE ALUMINUM CONDUCTOR FOR SERVICE
- WEATHERPROOF PHOTOCELL FOR LIGHTING CONTROL
- 100A PANEL BOARD AND APPURTENANCES WITH ENCLOSURE
- TEN POLE 30A LIGHTING CONTACTOR
- 2*10, 1*10 EGC, 2"C.
- 2" CONDUIT WITH PULL TAPE
- 3*6, 3/4"C.
- 2*12, 1*12 EGC, 3/4"C.
- 2*8, 1*8 EG, 2"C
- 2*6, 1*6 EGC, 2"C.

GENERAL NOTES

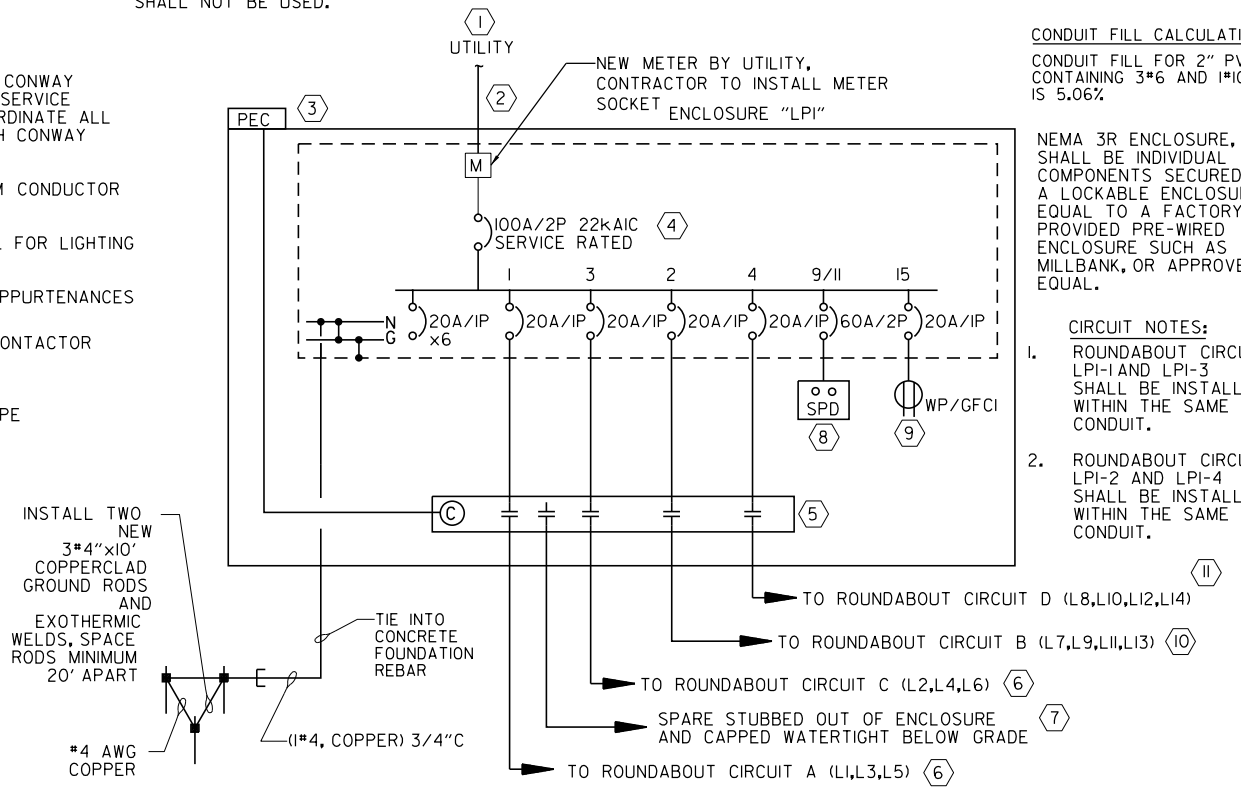
- ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE NFPA 70 (2023) NATIONAL ELECTRICAL CODE, NFPA 101 (2021) LIFE SAFETY CODE, STATE ELECTRICAL CODE, AND LOCAL ELECTRICAL CODE.
- COORDINATE ELECTRICAL POWER SUPPLY WITH EQUIPMENT SUPPLIED.
- COORDINATE ALL ELECTRICAL WORK AND POWER OUTAGES WITH CITY AND POWER UTILITY.
- SERVICE WIRING SHALL BE MINIMUM TYPE THHN/THWN-2.
- FEEDER AND BRANCH WIRING SHALL BE MINIMUM TYPE THHN/THWN-2.
- EQUIPMENT SHORT CIRCUIT CURRENT RATINGS AND AVAILABLE INTERRUPTING CURRENT RATINGS SHALL BE FULLY RATED TO INTERRUPT SYMMETRICAL SHORT CIRCUIT CURRENT AVAILABLE AT TERMINALS. SERIES RATED SYSTEMS SHALL NOT BE USED.

- NEUTRAL BUSES SHALL BE COPPER 100% RATED UNLESS OTHERWISE NOTED.
- GROUND BUSES SHALL BE COPPER UNLESS OTHERWISE NOTED.
- INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDER AND BRANCH CIRCUITS.
- INSTALL ALL CONDUCTORS AND CABLES IN CONDUIT UNLESS OTHERWISE NOTED.
- INSTALL LUGS AND JUNCTION BOXES AS REQUIRED TO FIT WIRING.
- INSTALL NEW TYPED PANEL SCHEDULES IN ALL ELECTRICAL PANELS INDICATING WORK PERFORMED.
- THE POWER UTILITY POINT OF CONTACT IS DALE GOTTSPONER, CONWAY CORPORATION, PHONE NUMBER 501-450-6049.
- CONDUIT FILL IS PER NEC 2023 CHAPTER 9 CALCULATIONS AND TABLES.

CONDUIT FILL CALCULATIONS:
CONDUIT FILL FOR 2" PVC CONTAINING 3*6 AND 1*10 EGC IS 5.06%

NEMA 3R ENCLOSURE, SHALL BE INDIVIDUAL COMPONENTS SECURED IN A LOCKABLE ENCLOSURE EQUAL TO A FACTORY PROVIDED PRE-WIRED ENCLOSURE SUCH AS MILBANK, OR APPROVED EQUAL.

- CIRCUIT NOTES:**
- ROUNDBOUT CIRCUIT LPI-1 AND LPI-3 SHALL BE INSTALLED WITHIN THE SAME 2" CONDUIT.
 - ROUNDBOUT CIRCUIT LPI-2 AND LPI-4 SHALL BE INSTALLED WITHIN THE SAME 2" CONDUIT.



C PROPOSED ONE LINE DIAGRAM FOR ROUNDBOUT LIGHTING
SCALE: N.T.S.

NOTES:

- ALL TYPE HD PULL BOXES ARE INSTALLED WITH AN APRON OF CONCRETE 12" (305 MM) WIDE AND 6" (152 MM) IN DEPTH. ALL PAYMENT SHALL BE INCLUDED IN THE PRICE OF THE TYPE HD PULL BOX. PULL BOX SHALL BE INSTALLED FLUSH TO SURROUNDING GRADE UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER. THE CONCRETE SHALL BE CLASS "S." THREE #6 REINFORCING BARS IN THE APRON ON ALL SIDES OF THE PULL BOX ARE REQUIRED IN CONCRETE.
- UL LISTED PULL BOX AND EXTRA HEAVY-DUTY COVER SHALL BE DESIGNED FOR A TEST LOAD OF 33,750 LBS AND A DESIGN LOAD OF 22,500 LBS.
- PULL BOX INTERIOR DIMENSIONS SHALL BE 24" L x 18" W x 18" D (OPEN BOTTOM).
- PROVIDE MINIMUM 3' SLACK CABLE LOOP FOR EACH CABLE.
- COLOR CODE, TAG AND IDENTIFY ALL CABLES IN UL LISTED PULL BOX.
- EXACT LOCATION OF EACH UL LISTED PULL BOX SHALL BE APPROVED BY THE OWNER AND ENGINEER.

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PANEL NAME: LP1		VOLTAGE 120/240		PHASE: 1		WIRE: 3		NEUTRAL RATING: 100%		PANEL DESCRIPTION: Lighting Panel								
MAINS: 100A MCB		MOUNTING: Surface		MAX. NO. OF CIRCUITS: 16		MANUFACTURER:		PANEL A.I.C. RATING: 22,000		LOCATION: Exterior Pedestal								
NO	DESCRIPTION	BRANCH		WIRE (AWG)	VA		Load Type	Load Type	VA		WIRE (AWG)	BRANCH		DESCRIPTION	NO.			
		POLES	BKR		L1	L2			L1	L2		L1	L2			BKR	POLES	
1	ROUNABOUT CIRCUIT A (L1,L3,L5)	1	20	10		474			L	L	632			8	20	1	ROUNABOUT CIRCUIT C (L2,L4,L6)	2
3	ROUNABOUT CIRCUIT B (L7,L9,L11,L13)	1	20	10		474			L	L	632			6	20	1	ROUNABOUT CIRCUIT D (L8,L10,L12,L14)	4
5	SPARE	1	20	-					-	-				-	20	1	SPARE	6
7	SPARE	1	20	-					-	-				-	20	1	SPARE	8
9	SPD	2	60	6					E	-				-	-	-	SPACE	10
11		-	-	6					E	-				-	-	-	SPACE	12
13	SPARE	1	20	-					-	-				-	-	-	SPACE	14
15	GFCI RECEPTACLE	1	20	12					R	-				-	-	-	SPACE	16

Description	Code	L1	L2	Total	
				SUM	%
LIGHTING	L	1106	1106	2212	100
RECEPT	R	0	0	0	0
EQUIP.	E	0	0	0	0
OTHER		0	0	0	0
HVAC	H	0	0	0	0
CUSTOM	HC	0	0	0	0
ADDITIONAL		0	0	0	0
TOTAL		1106	1106	2212	
DEMAND		1106	1106	2212	100
%		50	50		

Design Load (kVA)		
2.77		
0.00		
0.00		
0.00		
0.00		
0.00		
0.00		
2.77		

Total Connected Load		
9.2 Amps	2.21 kVA	

Total Design Load *		
13.6 Amps	3.25 kVA	

* Total Design Load includes calculated Design Loads per NEC Demand Factors and the stated Spare Capacity.

Spare	15%
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Panel ID	Location Description	# of Sets	Wire Size	One-Way Length (ft)	Line Current (Amps)	Voltage (Line-to-Line)	Phase	Power Factor (100% or 85%)	Wire Type	Conduit Type	Impedance (Ω /1000 ft)	Voltage Drop (Volts)	%VD
LP1-A	LP1-L4	1	10	55	3.96	120	1	85%	Copper	PVC	1.1	0.47916	0.40%
LP1-A	L4-L5	1	10	140	1.32	120	1	85%	Copper	PVC	1.1	0.40656	0.34%
LP1-A	L4-L3	1	10	175	2.64	119	1	85%	Copper	PVC	1.1	1.0164	0.85%
LP1-A	L3-L1	1	10	300	1.32	118	1	85%	Copper	PVC	1.1	0.8712	0.74%
Total %VD												2.33%	

Project: 17017654

Panel ID	Location Description	# of Sets	Wire Size	One-Way Length (ft)	Line Current (Amps)	Voltage (Line-to-Line)	Phase	Power Factor (100% or 85%)	Wire Type	Conduit Type	Impedance (Ω /1000 ft)	Voltage Drop (Volts)	%VD
LP1-C	LP1-L4	1	10	55	3.96	120	1	85%	Copper	PVC	1.1	0.47916	0.40%
LP1-C	L4-L6	1	10	260	1.32	120	1	85%	Copper	PVC	1.1	0.75504	0.63%
LP1-C	L4-L2	1	10	340	1.32	119	1	85%	Copper	PVC	1.1	0.98736	0.83%
Total %VD												1.86%	

Project: 17017654

Panel ID	Location Description	# of Sets	Wire Size	One-Way Length (ft)	Line Current (Amps)	Voltage (Line-to-Line)	Phase	Power Factor (100% or 85%)	Wire Type	Conduit Type	Impedance (Ω /1000 ft)	Voltage Drop (Volts)	%VD
LP1-B	LP1-L7	1	8	110	5.28	120	1	85%	Copper	PVC	0.69	0.801504	0.67%
LP1-B	L7-L9	1	8	190	3.96	119	1	85%	Copper	PVC	0.69	1.038312	0.87%
LP1-B	L9-L11	1	8	225	2.64	118	1	85%	Copper	PVC	0.69	0.81972	0.69%
LP1-B	L11-L13	1	8	270	1.32	117	1	85%	Copper	PVC	0.69	0.491832	0.42%
Total %VD												2.65%	

Project: 17017654

Panel ID	Location Description	# of Sets	Wire Size	One-Way Length (ft)	Line Current (Amps)	Voltage (Line-to-Line)	Phase	Power Factor (100% or 85%)	Wire Type	Conduit Type	Impedance (Ω /1000 ft)	Voltage Drop (Volts)	%VD
LP1-D	LP1-PB	1	6	155	5.28	120	1	85%	Copper	PVC	0.44	0.720192	0.60%
LP1-D	PB-L8	1	6	115	1.32	119	1	85%	Copper	PVC	0.44	0.133584	0.11%
LP1-D	PB-PB	1	6	285	3.96	119	1	85%	Copper	PVC	0.44	0.993168	0.83%
LP1-D	PB-L10	1	6	50	1.32	118	1	85%	Copper	PVC	0.44	0.05808	0.05%
LP1-D	PB-L12	1	6	230	2.64	118	1	85%	Copper	PVC	0.44	0.534336	0.45%
LP1-D	L12-L14	1	6	260	1.32	118	1	85%	Copper	PVC	0.44	0.302016	0.26%
Total %VD												2.30%	

Project: 17017654

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