

D:\LOCAL\FULL\2904.2792336\gov_rtmco\c-sy_dr-f
5/6/03
16:04:25
Plot 1 copies
rtmco\ghey

June 03
Tennessee D.O.T.
DESIGN DIVISION
FILE NO. X-11

INDEX OF SHEETS

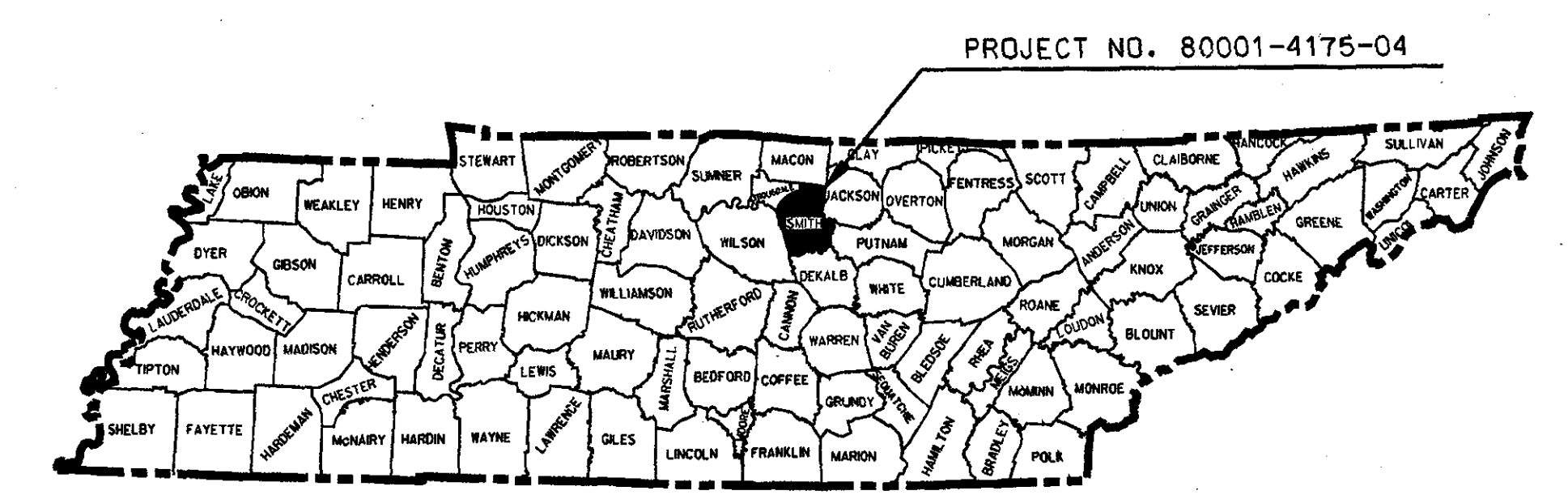
SHEET NO.	SHEET NAME
1	TITLE SHEET
2	ESTIMATED ROADWAY QUANTITIES
2A	GENERAL NOTES
2B	SPECIAL NOTES
2C-2D	DETAILS AND SCHEDULES
3	LIGHTING MODIFICATIONS
4	ELECTRICAL SERVICE SITE PLAN
5-5A	TRAFFIC CONTROL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING AND DEVELOPMENT

TENN.	YEAR	SHEET NO.
	2003	1
FED. AID PROJ. NO.		
STATE PROJ. NO.	80001-4175-04	

SMITH COUNTY
REST AREA LIGHTING
1.04 MILES WEST OF S.R. 96
REST AREA REPAIRS

STATE HIGHWAY NO. F.A.H.S. NO. 1-40



STANDARD ROADWAY & STRUCTURE DRAWINGS

DRAWING NO.	CURRENT REVISION DATE	DESCRIPTION
-------------	--------------------------	-------------

ROADWAY DESIGN STANDARDS

RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	02-28-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-3	02-28-01	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	05-27-01	STANDARD LEGEND FOR EROSION AND SEDIMENT CONTROL

TRAFFIC CONTROL APPURTENANCES

T-L-1	11-12-93	LIGHTING DETAILS - SUPPORTS
T-L-1A	10-26-95	LIGHTING DETAILS - FOUNDATIONS
T-L-3	4-15-96	LIGHTING DETAILS - PULL BOXES
T-L-4	7-29-96	LIGHTING DETAILS - CONDUIT AND CABLE INSTALLATION

EROSION CONTROL AND LANDSCAPING

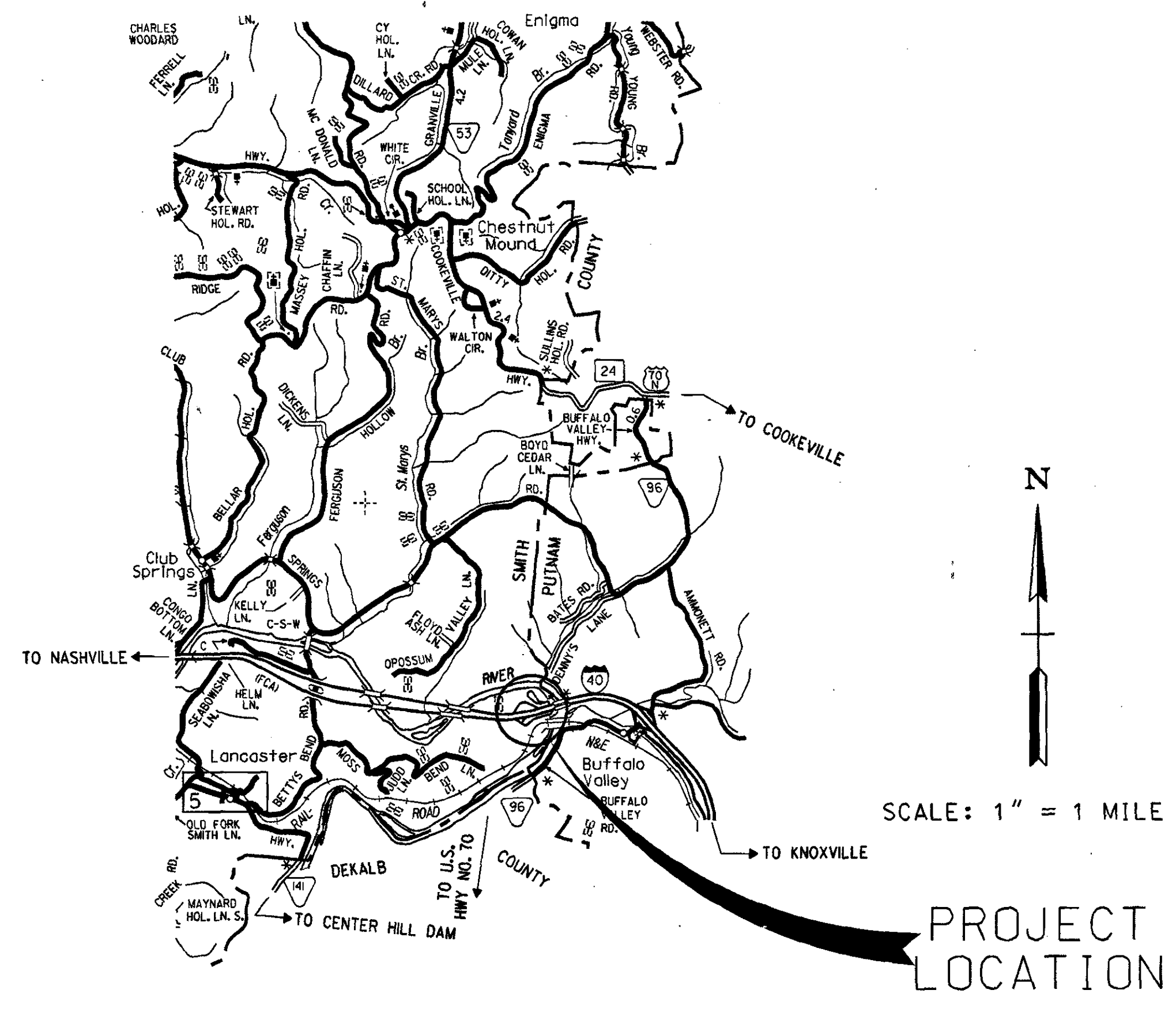
EC-STR-1	05-27-01	TEMPORARY DEWATERING STRUCTURE, PAY ITEMS & GENERAL NOTES
EC-STR-3	05-27-01	TEMPORARY SILT FENCE & FILTER BARRIER
EC-STR-5	05-27-01	STRAW OR HAY BALE OR FABRIC TEMPORAY EROSION CHECKS STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED MARCH 1, 1995 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT

TDOT C.E. MANAGER 2 CARL COBBLE
DESIGNED BY BARGE, WAGGONER, SUMNER, & CANNON, INC.
DESIGNER JIM GILLIAM CHECKED BY FORT MEGGS
P.E. NO. 80001-4166-04



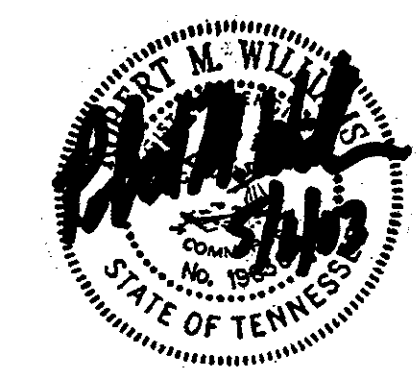
NO EQUATIONS
NO EXCLUSIONS

APPROVED: *JHC Jones* DESIGN DIVISION
DATE: _____
APPROVED: *Samuel F. Kelly* COMMISSIONER

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED: _____
DIVISION ADMINISTRATOR

DATE: _____



PROJECT LENGTH 0.000 MILES

ESTIMATED ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1 209-05	SEDIMENT REMOVAL	CY	30
1 209-06	BALED HAY OR STRAW EROSION CHECKS	BALE	120
1 209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	LF	1200
712-01	TRAFFIC CONTROL	LS	1
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	160
712-05.01	WARNING LIGHTS (TYPE A)	EACH	8
712-05.03	WARNING LIGHTS (TYPE C)	EACH	25
712-06.10	NEW SIGNS (CONSTRUCTION)	SF	142
712-07.03	TEMPORARY BARRICADES (TYPE III)	LF	80
3 714-01.64	ELECTRICAL SYSTEM	LS	1
6 2 714-03	JACKED OR BORED CONDUIT	LF	400
6 5 714-03.01	DIRECT BURIAL CONDUIT (2" PVC, SCHEDULE 40)	LF	5580
6 5 714-03.02	DIRECT BURIAL CONDUIT (3" PVC, SCHEDULE 40)	LF	1560
6 714-05.02	PULL BOXES (TYPE A)	EACH	19
6 714-05.03	PULL BOXES (TYPE B)	EACH	5
714-06.03	CABLE (1/C#10 AWG)	LF	6840
714-06.04	CABLE (1/C#8 AWG)	LF	2300
714-06.05	CABLE (1/C#6 AWG)	LF	4600
714-06.06	CABLE (1/C#4 AWG)	LF	6900
714-06.08	CABLE (1/C#4/O AWG)	LF	1610
6 714-08.09	LIGHT STANDARDS (30' POLE.. 8' ARM) (TYPE A)	EACH	12
6 714-08.10	LIGHT STANDARDS (40' POLE.. 8' ARM) (TYPE B)	EACH	2
714-08.11	LIGHT STANDARDS FURNISHED BY TDOT (CONTRACTOR INSTALLED)	EACH	2
714-08.12	LIGHT STANDARDS (30' POLE, BULLHORN BRACKET)	EACH	1
714-08.20	FOUNDATION (ONLY) FOR LIGHT STANDARD	EACH	13
714-08.21	FOUNDATION (ONLY) FOR LIGHT STANDARD	EACH	7
8 7 714-08.30	REMOVE AND RELOCATE LIGHT STANDARD	EACH	3
7 714-08.31	REMOVAL OF FOUNDATION (ONLY) FOR LIGHT STANDARD	EACH	5
7 714-08.32	REMOVAL OF LIGHT STANDARD & FOUNDATION	EACH	4
714-09.10	LUMINAIRES (CLEAN EXISTING LUMINAIRE & RELAMP W 150W HPS)	EACH	28
714-09.11	LUMINAIRES (CLEAN EXISTING LUMINAIRE & RELAMP W 250W HPS)	EACH	24
714-09.12	LUMINAIRES (70 WATT FLOOD)	EACH	2
714-09.13	LUMINAIRES (150 WATT FLOOD)	EACH	2
714-09.14	LUMINAIRES FURNISHED BY TDOT (CONTRACTOR INSTALLED)	EACH	2
8 714-30.01	AS-BUILT PLANS (PHASE I)	LS	1
717-01	MOBILIZATION	LS	1
801-01	SEEDING (WITH MULCH)	UNIT	26
801-03	WATER (SEEDING & SODDING)	MG	2

FOOT NOTES:

- 1 SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE AND REPLACEMENT. SEE SPECIAL NOTE 8.18: QUANTITIES MAY BE INCREASED, DECREASED OR ELIMINATED AS DIRECTED BY THE ENGINEER.
- 2 ALL NEW CONDUITS CROSSING UNDER EXISTING ROADWAYS OR WALKWAYS SHALL BE INSTALLED BY JACKING/BORING METHODS.
- 3 THE COST OF THE ELECTRICAL SYSTEM SHALL INCLUDE ALL WORK ASSOCIATED WITH THE REPLACEMENT OF THE PHOTOCELL AND LIGHTING CONTACTOR LOCATED IN THE MAIN ELECTRICAL ROOM
- 4 THE CONTRACTOR SHALL INCLUDE THE COST FOR ANY WORK/EQUIPMENT INDICATED ON THE PLANS AND NOT SPECIFICALLY LISTED IN THE QUANTITIES TABLE IN AN ASSOCIATED PAY ITEM. PROVIDE TDOT, AT BID OPENING, A LIST OF THESE ITEMS, THE ITEMS THEY ARE ASSOCIATED WITH AND A PERCENTAGE OF THE TOTAL COST OF THAT ITEM.
- 5 ALL TRENCHING AND BACKFILLING IS A SUBSIDIARY OBLIGATION OF THE UNDERGROUND CONDUIT AND SHALL BE INCLUDED IN THAT COST.
- 6 FIELD VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING FOR NEW UNDERGROUND CONDUITS AND EXCAVATION FOR POLES, PULL BOXES, OR USE OF JACKING/BORING EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL DAMAGES RESULTING FROM NEW CONSTRUCTION.
- 7 THE COST OF MAINTAINING ELECTRIC SERVICE TO EQUIPMENT WHICH USES THE LIGHT FIXTURES AS PULL/JUNCTION BOXES, AND THE LIGHT FIXTURE RACEWAYS IS A SUBSIDIARY OBLIGATION OF THE LIGHT STANDARD AND FOUNDATION REMOVAL AND SHALL BE INCLUDED IN THAT COST.
- 8 FINAL AS-BUILT LIGHTING PLANS (2 SETS).

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2003	80001-4175-04	2



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2003	80001-4175-04	2A

GENERAL NOTES

1.0 GRADING

- 1.1 ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- 1.2 THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

2.0 SEEDING AND SODDING

- 2.1 ITEM NO. 801-01, SEEDING (WITH MULCH), SHALL BE USED ON ALL SLOPES.

3.0 UTILITIES

- 3.1 THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.
- 3.2

THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

- 3.3
- THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106.

4.0 MISCELLANEOUS

- 4.1 NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

5.0 CONSTRUCTION WORK ZONE AND TRAFFIC CONTROL NOTES

- 5.1 ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.
- 5.2 IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM 712-06.10, NEW SIGNS (CONSTRUCTION) PER SQUARE FOOT.
- 5.3 TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.
- 5.4 USE OF BARRICADES, PORTABLE BARRIER RAILS, VERTICAL PANELS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS 30 FOOT SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

- 5.5 THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC, UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO BE PARKED WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS 30 FOOT SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

- 5.6 ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

6.0 LIGHTING

- 6.1 INSTALLATION AND MATERIALS SHALL COMPLY WITH SECTION 714 AND 917 OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED MARCH 1, 1995 AND WITH THE LATEST REVISIONS TO THE NATIONAL ELECTRIC CODE, NFPA 70.
- 6.2 ALL INCIDENTAL EQUIPMENT AND MATERIAL REQUIRED FOR THE SUCCESSFUL EXECUTION OF THIS WORK SHALL BE FURNISHED IN 714 ITEMS WHETHER SPECIFICALLY NOTED OR NOT.
- 6.3 LIGHT STANDARDS SHALL BE ROUND TAPERED POLES. LENGTH SHALL BE DETERMINED BY REQUIRED MOUNTING HEIGHT.
- 6.4 STANDARDS SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE STANDARDS SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS.
- 6.5 STANDARDS SHALL BE DESIGNED FOR 80 MPH WIND PRESSURE AND SHALL SUPPORT A 62-POUND LUMINAIRE ON A 15-FOOT ARM.
- 6.6 BRACKET ARMS SHALL BE ROUND TAPERED TRUSS TYPE WITH STRAP MOUNTING AND LENGTHS AS SCHEDULED.
- 6.7 BRACKET ARM UPSWEEP SHALL BE THE SAME FOR ALL LIGHT STANDARDS OF THE SAME TYPE.
- 6.8 ALL WIRING SHALL BE CONCEALED UNDERGROUND IN 2 INCH SCHEDULE 40 PVC RIGID CONDUIT, UNLESS OTHERWISE NOTED.
- 6.9 THE GROUND WIRE SHALL BE RUN INSIDE CONDUIT WITHIN STRUCTURES, SHALL BE COLORED GREEN AND HAVE THW INSULATION.
- 6.10 EXISTING FOUNDATIONS TO BE ENTIRELY REMOVED.

7.0 EROSION CONTROL NOTES

- 7.1 ALL DISTURBED AREAS SHALL BE PROPERLY STABILIZED AS SOON AS PRACTICABLE.
- 7.2 INSPECTION AND MAINTENANCE OF STRUCTURES IS TO BE PERFORMED ON A REGULAR BASIS AND SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT. DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT STRUCTURAL COMPONENTS OF EROSION CONTROL STRUCTURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE STRUCTURES AT THE CONTRACTOR'S OWN EXPENSE.
- 7.3 SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS AND DOES NOT MIGRATE INTO WATERS OF THE STATE / U.S. COST FOR THIS TREATMENT IS TO BE INCLUDED IN PRICE BID FOR ITEM NO. 209-05 SEDIMENT REMOVAL PER CUBIC YARD.
- 7.4 THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A POSITIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OR DEPOSIT OF SEDIMENT ON ROADWAYS USED BY THE GENERAL PUBLIC.

- 7.5 SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE / U.S. EROSION AND SEDIMENTATION CONTROL MEASURES TO PROTECT WATER QUALITY MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. HAY BALES AND/OR SILT FENCE MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG STREAM BANKS IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS. THEY MUST BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED, AND EXTEND THE WIDTH OF THE AREA TO BE CLEARED.

- 7.6 THE CONTRACTOR SHALL INSTALL A RAIN GAUGE ON-SITE AND MAINTAIN IT IN GOOD WORKING CONDITION. THE CONTRACTOR SHALL RECORD DAILY PRECIPITATION ON THE PROJECT AND PROVIDE THIS INFORMATION TO THE ENGINEER ON A MONTHLY BASIS. THE COST FOR THE RAIN GAUGE IS TO BE INCLUDED IN THE UNIT BID PRICES FOR OTHER ITEMS.

- 7.7 INSPECTIONS OF EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DONE BEFORE ANTICIPATED STORM EVENTS (OR SERIES OF STORM EVENTS SUCH AS INTERMITTENT SHOWERS OVER ONE OR MORE DAYS) AND WITHIN 24 HOURS AFTER THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER, AND AT LEAST ONCE PER WEEK.

- 7.8 OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING IMPACTS TO SURROUNDING WATERS. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.

- 7.9 UPON CONCLUSION OF THE INSPECTIONS, EROSION AND SEDIMENT CONTROL MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE MORE THAN SEVEN DAYS AFTER THE CONDITION IS IDENTIFIED.

- 7.10 THE CONTRACTOR SHALL MAINTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN ON-SITE (OR AT A NEARBY OFFICE) AND SHALL PLACE COPIES OF ANY PROJECTED-RELATED PERMITS ON THE PROJECT BULLETIN BOARD.

- 7.11 THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS FROM ENTERING WATERS OF THE STATE / U.S.

- 7.12 THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE / U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE UTILIZED. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE / U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.

- 7.13 BORROW AND WASTE DISPOSAL AREAS SHALL BE LOCATED IN NON-WETLAND AREAS AND ABOVE THE 100-YEAR, FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD PLAIN. BORROW AND WASTE DISPOSAL AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE / U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY AN ARAP, 404, OR NPDES PERMIT, OBTAINED SOLELY BY THE CONTRACTOR.

- 7.14 WETLAND AREAS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, UNLESS PROVIDED FOR IN THE PLANS.

- 7.15 ANY DISAGREEMENT BETWEEN THE PROJECT PLANS, THE PROJECT AS CONSTRUCTED AND THE PERMIT OR PERMITS ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE ENVIRONMENTAL PLANNING AND PERMITS DIVISION SHALL DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT PLANS REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL PREVAIL.



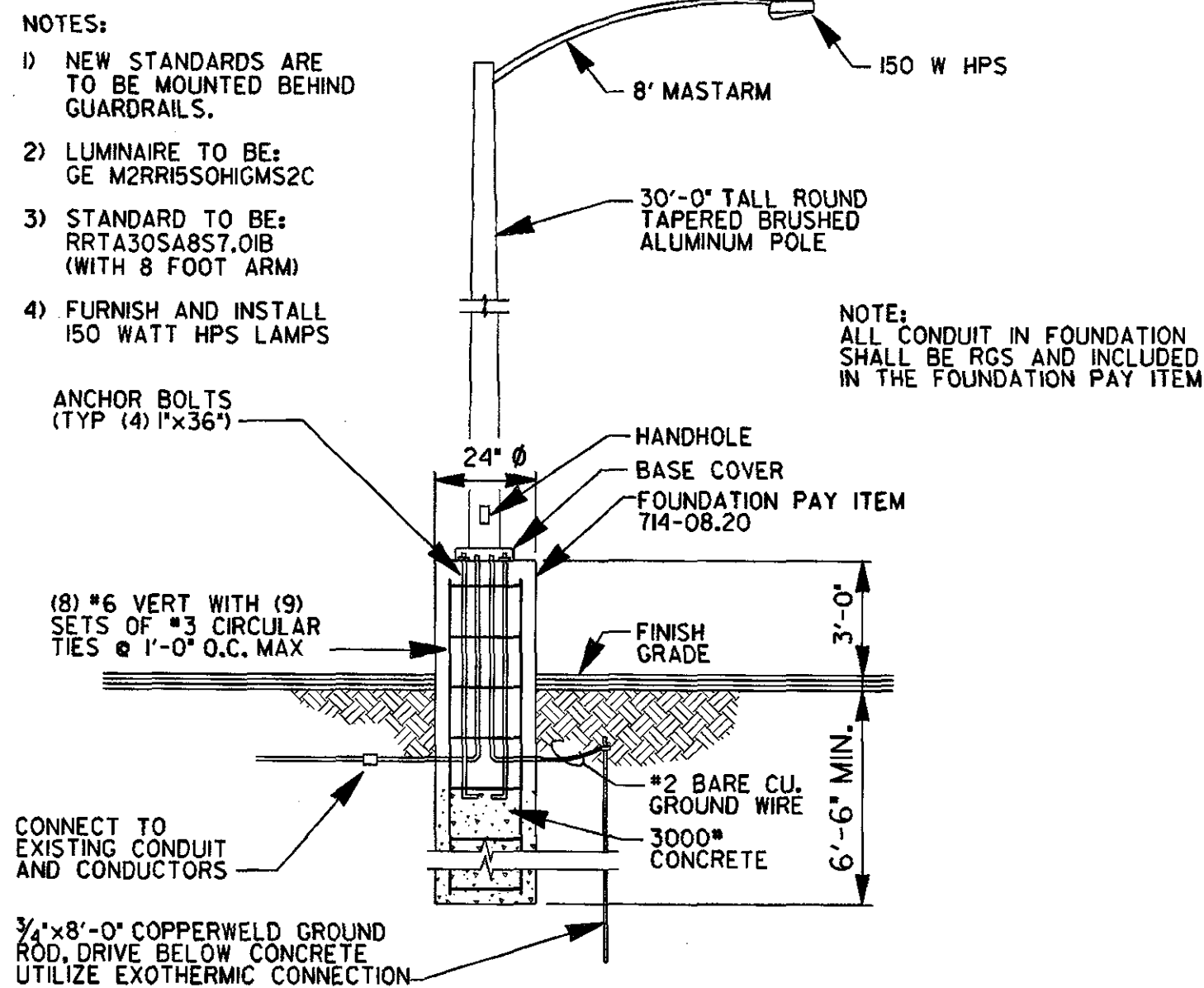
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

GENERAL
NOTES

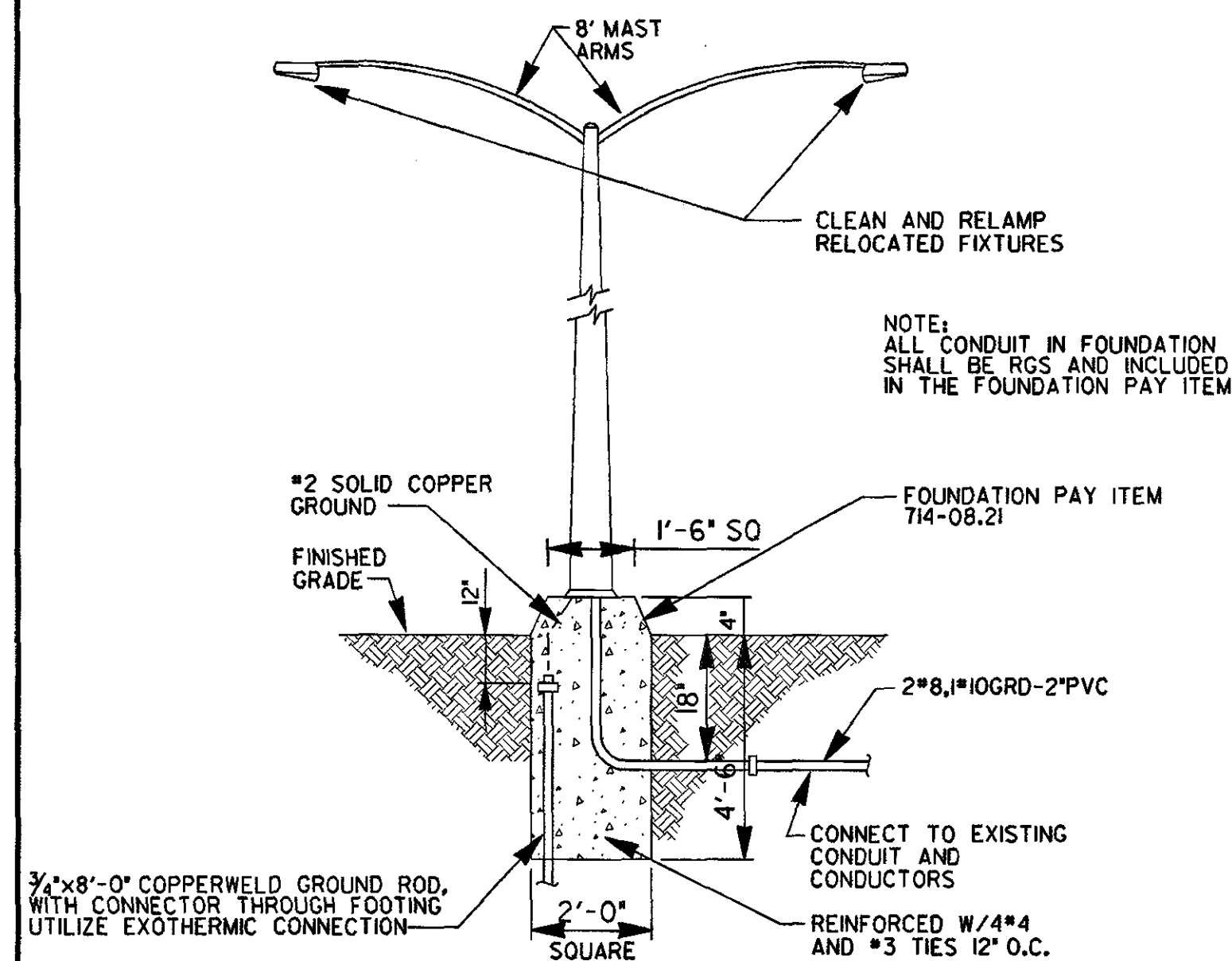
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

SPECIAL
NOTES

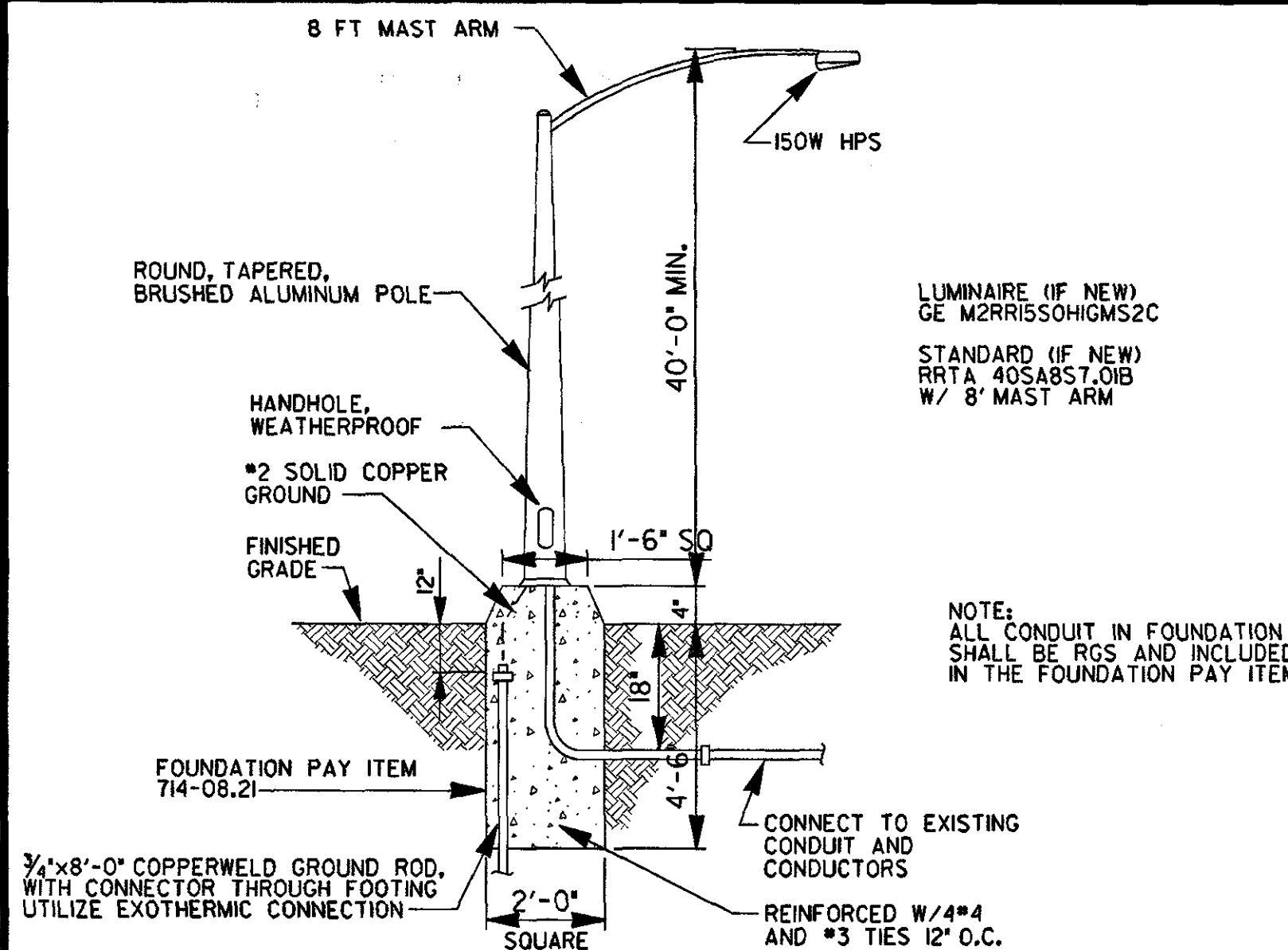
- SPECIAL NOTES
- 8.0 THE CONTRACTOR SHALL COORDINATE WITH THE TENNESSEE STATE DEPARTMENT OF TRANSPORTATION FOR STAGING AREA.
 - 8.2 THE CONTRACTOR SHALL COORDINATE ANY POWER OUTAGES AND INTERRUPTIONS OF SITE USE AT THE REST AREA WITH THE TENNESSEE DEPARTMENT OF TRANSPORTATION.
 - 8.3 THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE TO THE TENNESSEE DEPARTMENT OF TRANSPORTATION.
 - 8.4 EXCAVATION FOR POLE FOUNDATIONS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF THE OTHER ITEMS.
 - 8.5 BEFORE BEGINNING ANY EXCAVATION, THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ANY ELECTRICAL, DRAINAGE, OR UTILITY IN THE VICINITY AND CONDUCT HIS WORK IN SUCH A MANNER AS TO AVOID DAMAGE TO SAME.
 - 8.6 IF ROCK IS ENCOUNTERED IN THE DITCHES, MINIMUM COVER SHALL BE AS ALLOWED BY TABLE 300-5 OF THE NATIONAL ELECTRICAL CODE.
 - 8.7 IT IS SUGGESTED THAT THE CONTRACTOR PROBE THE AREA FOR ROCK DEPTH PRIOR TO BIDDING. NO ADDITIONAL COST WILL BE ALLOWED FOR ROCK EXCAVATION.
 - 8.9 THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY ROADWAY, ROADSIDE ELEMENTS THAT MAY OCCUR DURING CONSTRUCTION OF THIS PROJECT DUE TO HIS OPERATIONS. THIS INCLUDES DAMAGE TO SLOPES AND ANY VEGETATION WITHIN THE PROJECT LIMITS. ANY COST OF SUCH REPAIRS SHALL BE BORNE BY THE CONTRACTOR.
 - 8.10 UNDERDRAIN OUTLETS MAY HAVE BEEN PLACED ALONG THE ROADWAY. THE CONDUIT AND CONDUCTORS REQUIRED BETWEEN THE LIGHTING UNITS MUST BE PLACED TO AVOID DAMAGE TO THE OUTLETS AND/OR DRAINS.
 - 8.11 ANY HOLES EXCAVATED FOR LUMINAIRE POLE FOUNDATIONS SHALL BE COVERED IF LEFT OVERNIGHT. THE COVERING SHALL BE SUFFICIENTLY SECURE TO AVOID UNINTENTIONAL DISPLACEMENT BY PERSONS, WIND OR VEHICLES AS APPROVED BY THE ENGINEER. THIS SHALL BE A SUBSIDIARY OBLIGATION OF PAY ITEM NO. 714-08.
 - 8.12 PLACE MATERIAL EXCAVATED FROM FOUNDATION AROUND THE SIDES OF THE FOUNDATION WHERE NECESSARY TO PROVIDE CONTINUITY WITH THE ORIGINAL SLOPE. THIS EXCAVATED MATERIAL SHALL BE SEEDED AND MULCHED.
 - 8.13 ALL THE 714-03 CONDUIT PLACED UNDER EXISTING ROADWAY BY BORING OR JACKING SHALL BE PERFORMED WITH A PRECISION METHOD AS APPROVED BY THE ENGINEER. UPHEAVAL IN EXISTING PAVEMENT WILL NOT BE ALLOWED.
 - 8.14 THE REQUIRED CHARACTERISTICS OF EACH LUMINAIRE ASSEMBLY (I.E.; POLE HEIGHT, SETBACK DISTANCE, TYPE OF FOUNDATIONS, ETC.) SHALL BE AS SHOWN ON THE PLANS
 - 8.15 THE PULL BOXES ARE TO BE INSTALLED AT LOCATIONS APPROXIMATELY AS SHOWN ON PLAN SHEETS.
 - 8.16 THE CONTRACTOR SHALL STAKE THE NEW LOCATION OF ALL NEW AND/OR RELOCATED LIGHT STANDARDS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE TENNESSEE DEPARTMENT OF TRANSPORTATION WHEN STAKING IS COMPLETED.
 - 8.17 THE CONTRACTOR SHALL PROVIDE THREE SETS OF AS-BUILT DRAWINGS (FULL SIZE), SHOWING CONDUIT ROUTING, SERVICE POINTS, PULL BOX LOCATIONS, PANELBOARD LOCATIONS, SCHEDULES, ROADWAY CROSSINGS AND OTHER INFORMATION AS DIRECTED. THE PROJECT ENGINEER SHALL VERIFY THE ACCURACY OF THE DRAWINGS AND DELIVER THEM TO THE DIVISION CONSTRUCTION ENGINEER. THE PROJECT ENGINEER SHALL REVISE THE CONSTRUCTION DOCUMENTS PER THE AS-BUILT DRAWINGS AND PROVIDE THREE (3) SETS OF RECORD DRAWINGS TO THE DEPARTMENT OF TRANSPORTATION.
 - 8.18 THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK. WORK SHALL NOT BEGIN UNTIL THE PLAN HAS BEEN APPROVED. ALL COSTS TO BE INCLUDED IN PRICE BID FOR EROSION CONTROL ITEMS.



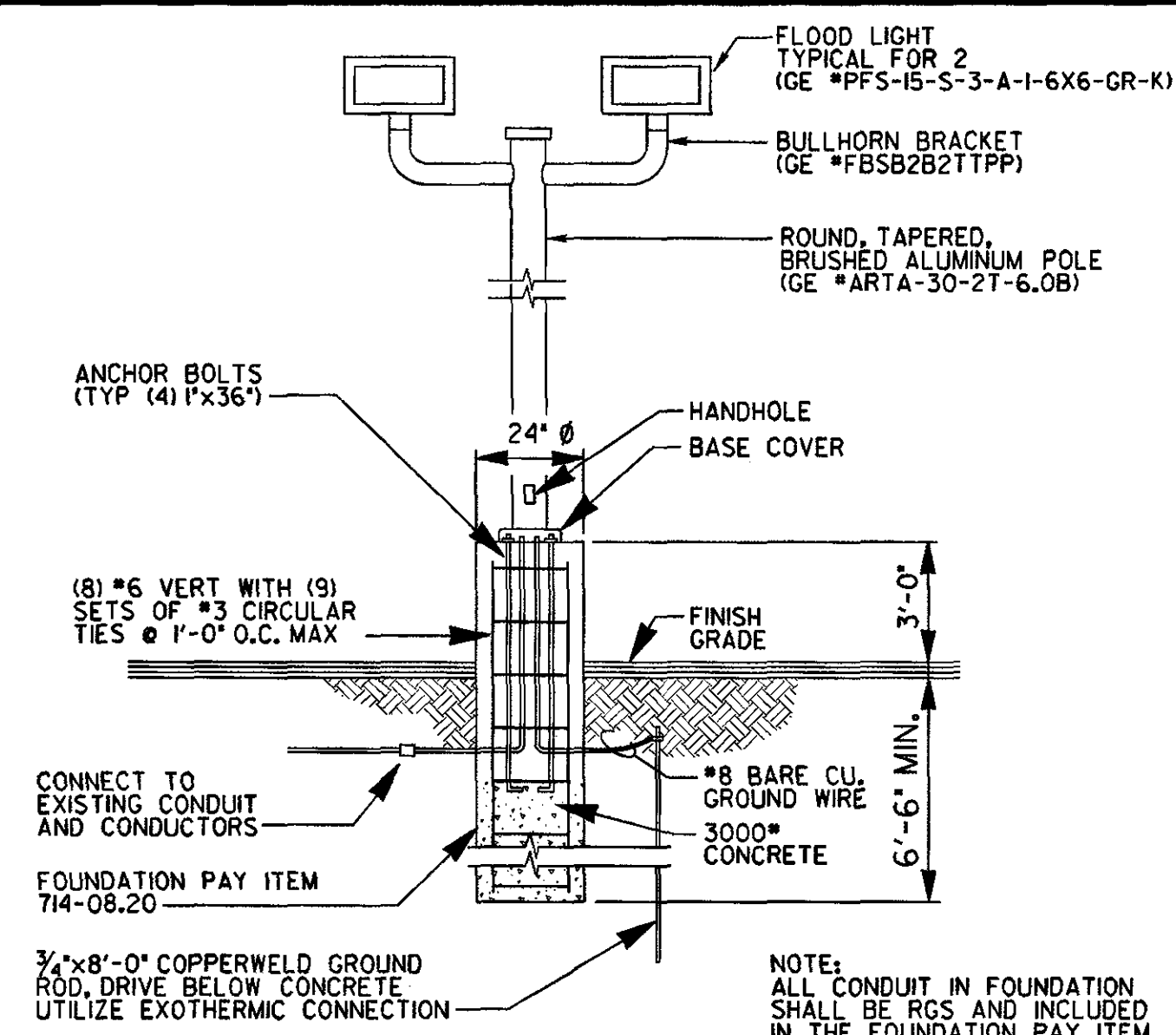
1 SINGLE ARM STANDARD (TYPE A)
N.T.S.



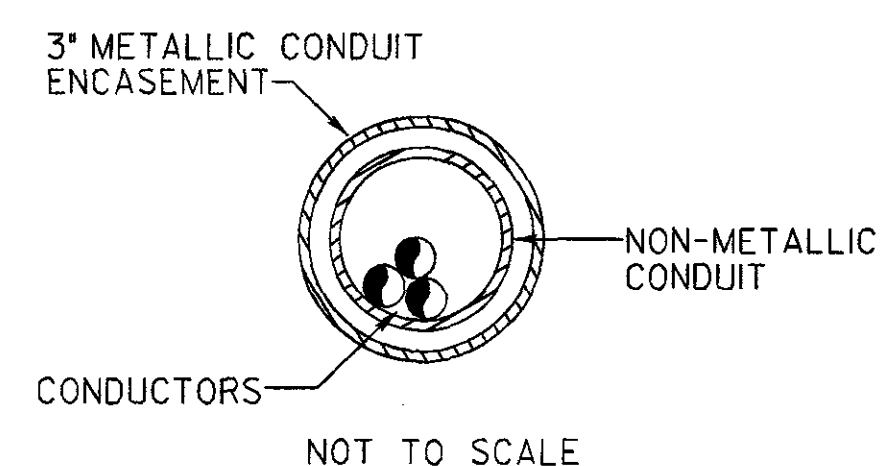
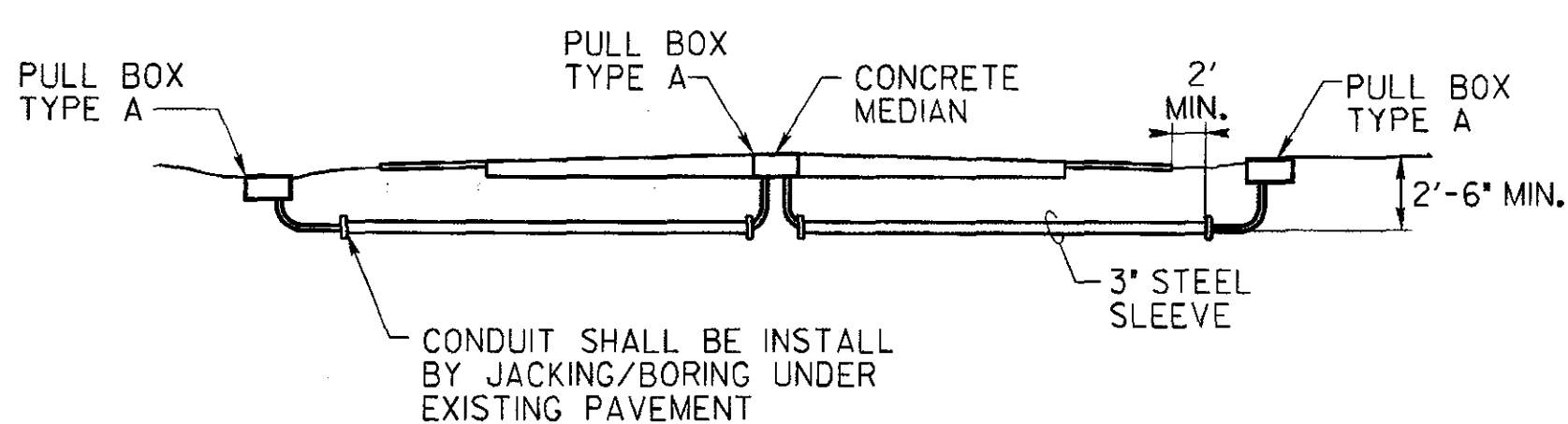
2 EXISTING DOUBLE ARM POLE TO BE RELOCATED
N.T.S.



3 NEW/RELOCATED SINGLE STANDARD (TYPE B)
N.T.S.



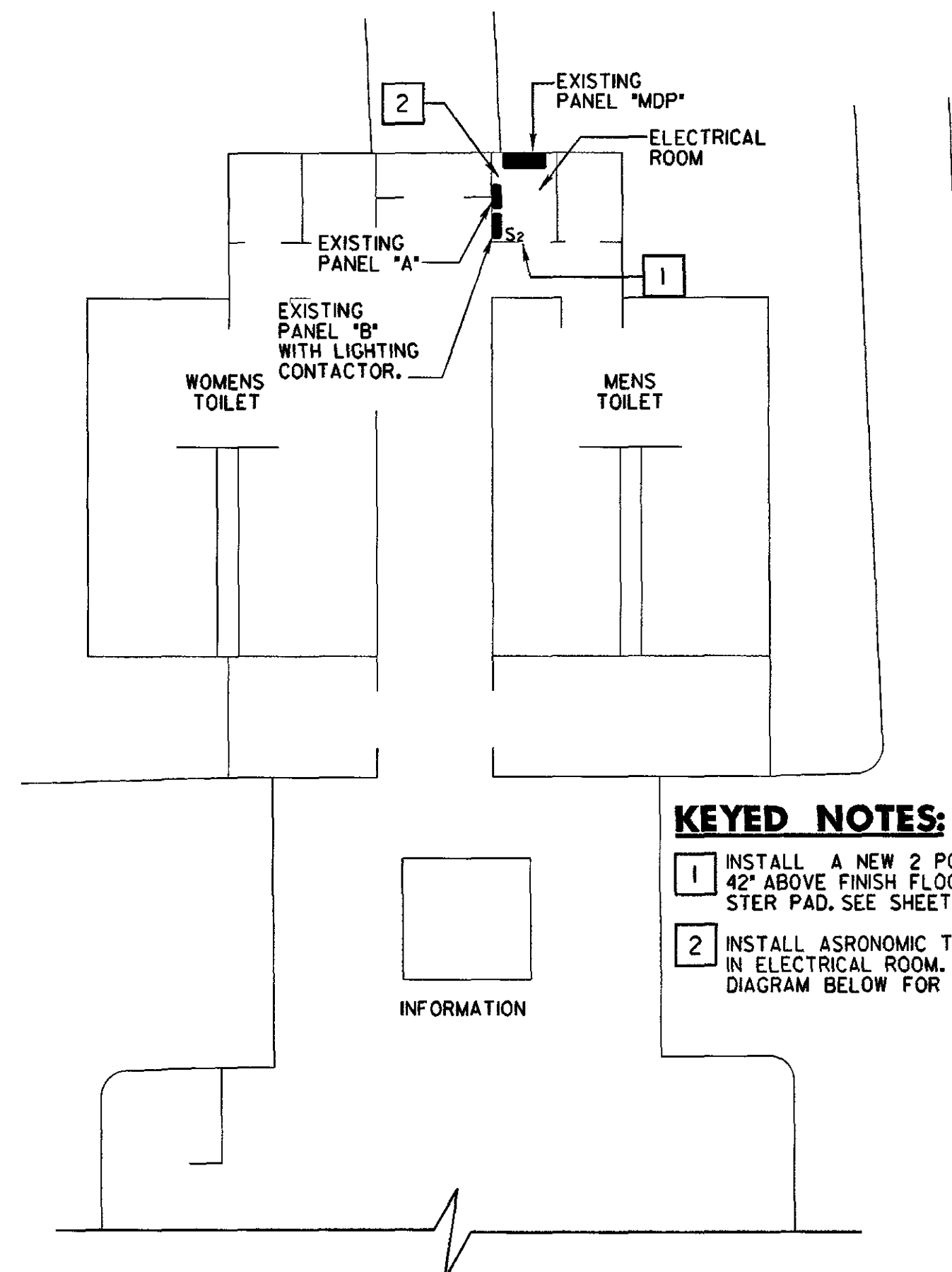
4 FLOOD LIGHT STANDARD
N.T.S.



INSTALLATION OF CONDUIT UNDER EXISTING ROADWAY

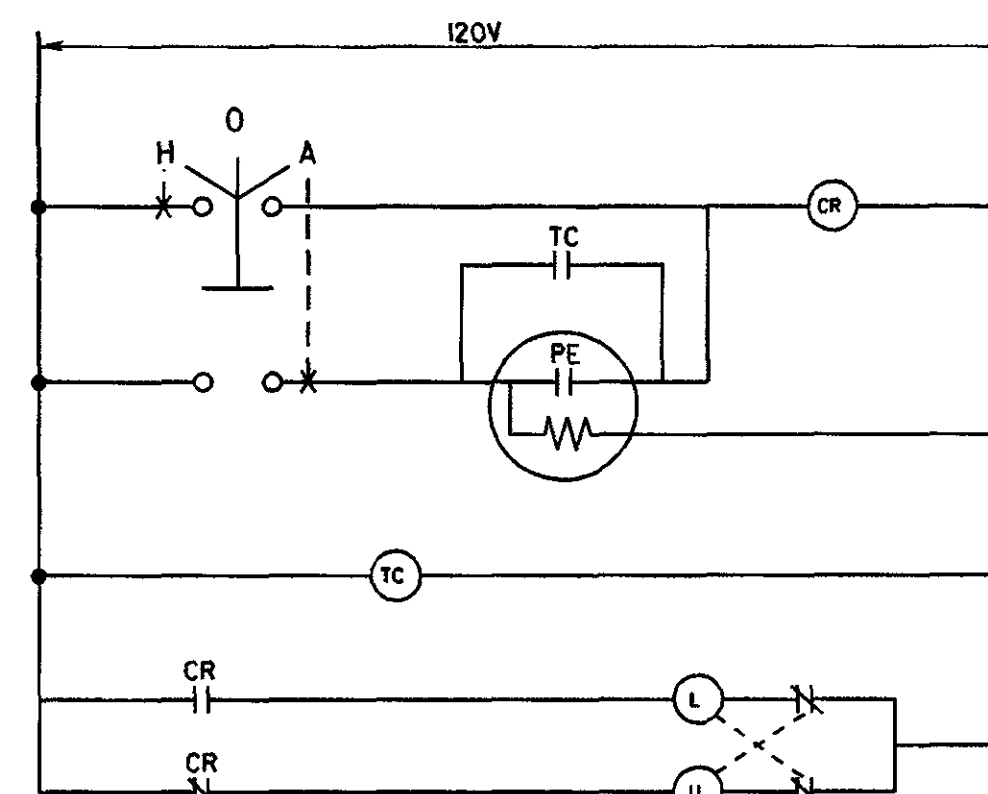
NOT TO SCALE

NOTE: THE 2" NON-METALLIC CONDUIT PLACED INSIDE THE ENCASEMENT SHALL BE MEASURED SEPARATE FROM THE ENCASEMENT AND PAID FOR UNDER ITEM 714-03.01



KEYED NOTES:

- INSTALL A NEW 2 POLE TOGGLE SWITCH MOUNTED 42" ABOVE FINISH FLOOR FOR LIGHTS AT THE DUMPSTER PAD. SEE SHEET 4 FOR CIRCUIT ROUTING.
- INSTALL ASRONOMIC TIME SWITCH (TORK *7120ZL) IN ELECTRICAL ROOM. SEE LIGHTING CONTROL DIAGRAM BELOW FOR WIRING.



NOTE: THE LIGHTS WILL NORMALLY BE CONTROLLED BY THE TIME SWITCH. DURING NORMAL DAY LIGHT HOURS WHEN LIGHT LEVEL IS LOW THE PHOTO CELL WILL OPERATE THE LIGHTS.

4 LIGHTING CONTROL DIAGRAM

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2003	80001-4175-04	2C



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

DETAILS

SCALE : N.T.S.

REMOVE EXISTING SPARE 20 AMP, 1-POLE
BREAKER AND COVER SPACE.
B PHASE IS HIGH

EXISTING PANEL: B				SERVICE: 120/240 VOLT, 3 PHASE, 4 WIRE LOCATION: REST AREA BLDG ELEC RM				
CKT NO.	DIRECTORY	CKT BKR	LOAD (KVA)	ØA ØB ØC	LOAD (KVA)	CKT BKR	DIRECTORY	CKT NO.
1	EASTBOUND PRKG LTS	20/2				20/2	WESTBOUND PRKG LTS	2
3		-/2				-/2		4
5	EASTBOUND PRKG LTS	20/2				20/2	WESTBOUND PRKG LTS	6
7		-/2				-/2		8
9	SPACE	-/1				20/2		10
11	SPACE	-/1				-/2		12
13	EASTBOUND PRKG LTS	20/2				20/1		14
15		-/2				20/2		16
17	SPARE	20/2				-/2		18
19		-/2				20/2		20
21	SPARE	20/1				-/2		22
23	SPARE	20/1				20/1		24
25	EASTBOUND RAMP LTS	20/3				20/3		26
27		-/3				-/3		28
29		-/3				-/3		30
31	SPACE	/				/	SPACE	32
33	SPACE	/				/	SPACE	34
35	SPACE	/				/	SPACE	36
37	SPACE	/				/	SPACE	38
39	LIGHT - DUMPSTER	20/2				.78 20/2	EASTBOUND PRKG LTS	40
41	--	-/2				.78 -/2		42

BUS DATA		ENCLOSURE		FEEDS FROM:	
125	AMPERE RATING - CONT.	<input type="checkbox"/> SURFACE	<input type="checkbox"/> FLUSH	REMARK/ACCESSORIES: THIS PANEL IS 240V DELTA HIGH LEG PHASE B IS HIGH. DO NOT USE SINGLE POLE BREAKERS ON ANY CIRCUIT ON PH. B	
	AMPERE RATING - FAULT	<input type="checkbox"/> NEMA 1	<input type="checkbox"/> NEMA 3R		
<input type="checkbox"/> COPPER	<input type="checkbox"/> ALUMINUM	<input type="checkbox"/> NEMA 12	<input type="checkbox"/>		
<input type="checkbox"/> GROUND BUS	<input type="checkbox"/> NEUTRAL BUS	MANUFACTURER:		NOTE: FILL OPEN SPACES WITH PLASTIC BLANKS	
<input type="checkbox"/> TOP FEED	<input checked="" type="checkbox"/> MAIN LUGS ONLY	TYPE:			
<input type="checkbox"/> BOTTOM FEED	<input type="checkbox"/> MAIN BREAKER				
N/A	AT N/A AF				

BUS DATA		ENCLOSURE		FEEDS FROM:	
225	AMPERE RATING - CONT.	<input type="checkbox"/> SURFACE	<input type="checkbox"/> FLUSH	REMARK/ACCESSORIES: THIS PANEL IS 240V DELTA HIGH LEG PHASE B IS HIGH. DO NOT USE SINGLE POLE BREAKERS ON ANY CIRCUIT ON PH. B	
10,000	AMPERE RATING - FAULT	<input type="checkbox"/> NEMA 1	<input type="checkbox"/> NEMA 3R		
<input checked="" type="checkbox"/> COPPER	<input type="checkbox"/> ALUMINUM	<input type="checkbox"/> NEMA 12	<input type="checkbox"/>		
<input checked="" type="checkbox"/> GROUND BUS	<input type="checkbox"/> NEUTRAL BUS	MANUFACTURER:		NOTE: FILL OPEN SPACES WITH PLASTIC BLANKS	
<input type="checkbox"/> TOP FEED	<input type="checkbox"/> MAIN LUGS ONLY	TYPE:			
<input checked="" type="checkbox"/> BOTTOM FEED	<input checked="" type="checkbox"/> MAIN BREAKER				
225	AT 225 AF				

PANEL: S1				SERVICE: 120/240 VOLT, 3 PHASE, 4 WIRE LOCATION: MAINTENANCE SHED				
CKT NO.	DIRECTORY	CKT BKR	LOAD (KVA)	ØA ØB ØC	LOAD (KVA)	CKT BKR	DIRECTORY	CKT NO.
1	PANEL S (EXISTING)	100/3				100/3	SPARE	2
3		-/3				-/3		4
5		-/3				-/3		6
7	SPARE	100/2				100/2	SPARE	8
9		-/2				-/2		10
11	SPARE	60/2				60/2	SPARE	12
13		-/2				-/2		14
15	SPARE	30/2				30/2	SPARE	16
17		-/2				-/2		18
19	SPARE	20/1				20/1	SPARE	20
21	SPACE	/				/	SPACE	22
23	SPACE	/				/	SPACE	24
25	SPACE	/				/	SPACE	26
27	SPACE	/				/	SPACE	28
29	SPACE	/				/	SPACE	30
31	SPACE	/				/	SPACE	32
33	SPACE	/				/	SPACE	34
35	SPACE	/				/	SPACE	36
37	SPACE	/				/	SPACE	38
39	SPACE	/				/	SPACE	40
41	SPACE	/				/	SPACE	42

BUS DATA		ENCLOSURE		FEEDS FROM:	
225	AMPERE RATING - CONT.	<input type="checkbox"/> SURFACE	<input type="checkbox"/> FLUSH	REMARK/ACCESSORIES: THIS PANEL IS 240V DELTA HIGH LEG PHASE B IS HIGH. DO NOT USE SINGLE POLE BREAKERS ON ANY CIRCUIT ON PH. B	
10,000	AMPERE RATING - FAULT	<input type="checkbox"/> NEMA 1	<input type="checkbox"/> NEMA 3R		
<input checked="" type="checkbox"/> COPPER	<input type="checkbox"/> ALUMINUM	<input type="checkbox"/> NEMA 12	<input type="checkbox"/>		
<input checked="" type="checkbox"/> GROUND BUS	<input type="checkbox"/> NEUTRAL BUS	MANUFACTURER:		NOTE: FILL OPEN SPACES WITH PLASTIC BLANKS	
<input type="checkbox"/> TOP FEED	<input type="checkbox"/> MAIN LUGS ONLY	TYPE:			
<input checked="" type="checkbox"/> BOTTOM FEED	<input checked="" type="checkbox"/> MAIN BREAKER				
225	AT 225 AF				

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2003	80001-4175-04	2D

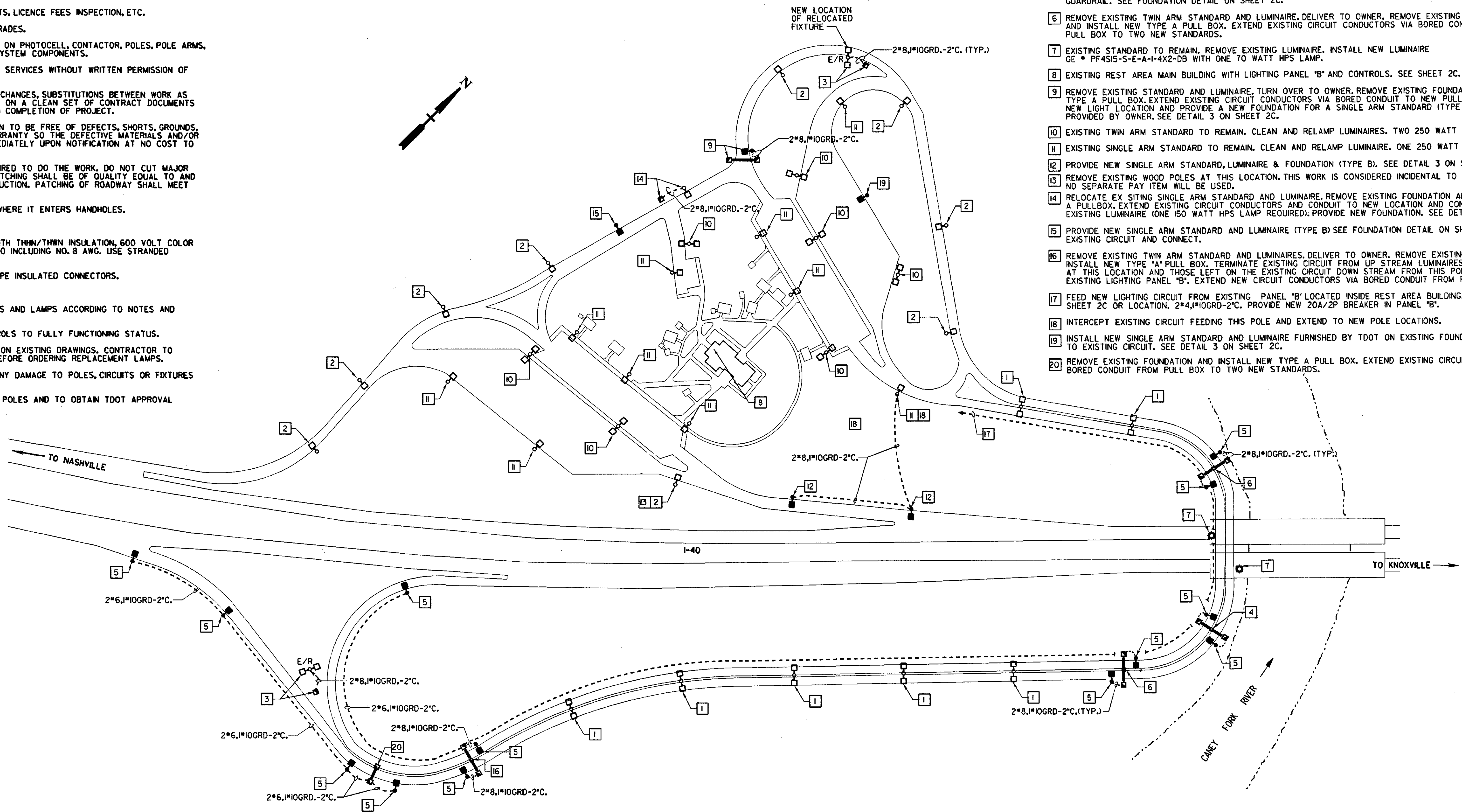


ELECTRICAL SPECIFICATIONS AND GENERAL NOTES:

- SCOPE: PROVIDE LABOR, MATERIAL, EQUIPMENT, ETC. REQUIRED TO COMPLETE THE INSTALLATION SHOWN ON THE DRAWINGS.
- CODES AND STANDARDS: INSTALLATION SHALL COMPLY WITH APPLICABLE LAWS AND ORDINANCES, UTILITY COMPANY REGULATIONS AND APPLICABLE REQUIREMENTS OF LATEST EDITIONS OF:
NFC - NATIONAL FIRE CODES
UL - UNDERWRITERS LABORATORIES
NEC - NATIONAL ELECTRICAL CODE
NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
SBC - STANDARD BUILDING CODE
- PERMITS: OBTAIN AND PAY FOR REQUIRED PERMITS, LICENCE FEES INSPECTION, ETC.
- COORDINATION: COORDINATE WORK WITH OTHER TRADES.
- SUBMITTALS: SUBMIT BROCHURES FOR APPROVAL ON PHOTOCELL, CONTACTOR, POLES, POLE ARMS, LIGHTING FIXTURES, LAMPS AND OTHER MAJOR SYSTEM COMPONENTS.
- EXISTING SERVICES: DO NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
- RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS BETWEEN WORK AS SPECIFIED AND AS INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DOCUMENTS WHICH SHALL BE TURNED OVER TO OWNER UPON COMPLETION OF PROJECT.
- GUARANTEE/WARRANTY: GUARANTEE INSTALLATION TO BE FREE OF DEFECTS, SHORTS, GROUNDS, ETC. FOR A PERIOD OF ONE YEAR. FURNISH WARRANTY SO THE DEFECTIVE MATERIALS AND/OR WORKMANSHIP WILL BE REPAIRED/REPLACED IMMEDIATELY UPON NOTIFICATION AT NO COST TO OWNER FOR PERIOD OF WARRANTY.
- CUTTING AND PATCHING: PROVIDE CUTTING REQUIRED TO DO THE WORK. DO NOT CUT MAJOR STRUCTURAL ELEMENTS WITHOUT APPROVAL. PATCHING SHALL BE OF QUALITY EQUAL TO AND OF MATCHING APPEARANCE OF EXISTING CONSTRUCTION. PATCHING OF ROADWAY SHALL MEET TDOT STANDARDS.
- RACEWAYS: 1/2" INCH MINIMUM SIZE; SEAL CONDUIT WHERE IT ENTERS HANDHOLES.
- SUPPORTS: AS REQUIRED BY NEC.
- CONDUCTORS: USE 98% CONDUCTIVITY COPPER WITH THHN/THWN INSULATION, 600 VOLT COLOR CODED. USE SOLID CONDUCTORS FOR WIRE UP TO INCLUDING NO. 8 AWG. USE STRANDED CONDUCTORS FOR WIRE ABOVE NO. 8 AWG.
- CONNECTORS: USE SPRING LOADED PRESSURE TYPE INSULATED CONNECTORS.
- GROUNDING: AS REQUIRED BY NEC.
- LIGHTING AND LAMPS: PROVIDE LIGHTING FIXTURES AND LAMPS ACCORDING TO NOTES AND DETAILS ON THE DRAWINGS.
- CONTROLS: RESTORE AUTOMATIC LIGHTING CONTROLS TO FULLY FUNCTIONING STATUS.
- POLE TYPES, FIXTURES AND LAMPS ARE BASED ON EXISTING DRAWINGS. CONTRACTOR TO FIELD VERIFY TYPE AND WATTAGE OF LAMPS BEFORE ORDERING REPLACEMENT LAMPS.
- CONTRACTOR TO NOTIFY TDOT IN WRITING OF ANY DAMAGE TO POLES, CIRCUITS OR FIXTURES DISCOVERED IN THE RELAMPING PROCESS.
- CONTRACTOR TO STAKE LOCATION OF ALL NEW POLES AND TO OBTAIN TDOT APPROVAL PRIOR TO INSTALLATION.

LEGEND

E/R □ □ EXISTING TWIN ARM STANDARD TO BE RELOCATED
E/R □ □ EXISTING SINGLE ARM STANDARD TO BE RELOCATED
□ □ EXISTING TWIN ARM STANDARD
□ □ EXISTING SINGLE ARM STANDARD
■ NEW SINGLE ARM STANDARD
■ PULL BOX, TYPE A
■ JACKED/BORED CONDUIT WITH PULL BOXES
--- UNDERGROUND CONDUIT



KEYED NOTES:

- EXISTING TWIN ARM STANDARD TO REMAIN. CLEAN AND RELAMP LUMINAIRES. TWO 150 WATT HPS LAMPS REQUIRED.
- EXISTING SINGLE ARM STANDARD TO REMAIN. CLEAN AND RELAMP LUMINAIRE. ONE 150 WATT HPS LAMP REQUIRED.
- RELOCATE EXISTING TWIN ARM STANDARD AND LUMINAIRE. REMOVE EXISTING FOUNDATION AND REPLACE WITH TYPE A PULL BOX. EXTEND EXISTING CIRCUIT CONDUCTORS TO NEW LOCATION AND CONNECT. PROVIDE NEW FOUNDATION AT THE NEW LOCATION. SEE DETAIL 2 ON SHEET 2C. CLEAN & RELAMP EXISTING LUMINAIRES (TWO 150 WATT HPS LAMPS REQUIRED).
- EXISTING TWIN ARM STANDARD HAS BEEN DESTROYED. REMOVE FOUNDATION AND INSTALL NEW TYPE A PULL BOX. EXTEND EXISTING CIRCUIT CONDUCTORS VIA BORED CONDUIT FROM PULL BOX TO NEW STANDARDS.
- PROVIDE NEW SINGLE ARM STANDARD & LUMINAIRE (TYPE A). STANDARD IS TO BE LOCATED BEHIND EXISTING GUARDRAIL. SEE FOUNDATION DETAIL ON SHEET 2C.
- REMOVE EXISTING TWIN ARM STANDARD AND LUMINAIRE. DELIVER TO OWNER. REMOVE EXISTING FOUNDATION AND INSTALL NEW TYPE A PULL BOX. EXTEND EXISTING CIRCUIT CONDUCTORS VIA BORED CONDUIT FROM PULL BOX TO TWO NEW STANDARDS.
- EXISTING STANDARD TO REMAIN. REMOVE EXISTING LUMINAIRE. INSTALL NEW LUMINAIRE GE # PF4515-S-E-A-I-4X2-DB WITH ONE TO WATT HPS LAMP.
- EXISTING REST AREA MAIN BUILDING WITH LIGHTING PANEL "B" AND CONTROLS. SEE SHEET 2C.
- REMOVE EXISTING STANDARD AND LUMINAIRE. TURN OVER TO OWNER. REMOVE EXISTING FOUNDATION AND INSTALL NEW TYPE A PULL BOX. EXTEND EXISTING CIRCUIT CONDUCTORS TO NEW PULL BOX. EXTEND CIRCUIT TO NEW LIGHT LOCATION AND PROVIDE A NEW FOUNDATION FOR A SINGLE ARM STANDARD (TYPE B). POLE AND LUMINAIRE PROVIDED BY OWNER. SEE DETAIL 3 ON SHEET 2C.
- EXISTING TWIN ARM STANDARD TO REMAIN. CLEAN AND RELAMP LUMINAIRES. TWO 250 WATT HPS LAMPS REQUIRED.
- EXISTING SINGLE ARM STANDARD TO REMAIN. CLEAN AND RELAMP LUMINAIRE. ONE 250 WATT HPS LAMP REQUIRED.
- PROVIDE NEW SINGLE ARM STANDARD, LUMINAIRE & FOUNDATION (TYPE B). SEE DETAIL 3 ON SHEET 2C.
- REMOVE EXISTING WOOD POLES AT THIS LOCATION. THIS WORK IS CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE PAY ITEM WILL BE USED.
- RELOCATE EXISTING SINGLE ARM STANDARD AND LUMINAIRE. REMOVE EXISTING FOUNDATION AND REPLACE WITH TYPE A PULL BOX. EXTEND EXISTING CIRCUIT CONDUCTORS AND CONDUIT TO NEW LOCATION AND CONNECT. CLEAN AND RELAMP EXISTING LUMINAIRE (ONE 150 WATT HPS LAMP REQUIRED). PROVIDE NEW FOUNDATION. SEE DETAIL 3 ON SHEET 2C.
- PROVIDE NEW SINGLE ARM STANDARD AND LUMINAIRE (TYPE B) SEE FOUNDATION DETAIL ON SHEET 2C. INTERCEPT EXISTING CIRCUIT AND CONNECT.
- REMOVE EXISTING TWIN ARM STANDARD AND LUMINAIRES. DELIVER TO OWNER. REMOVE EXISTING FOUNDATION AND INSTALL NEW TYPE "A" PULL BOX. TERMINATE EXISTING CIRCUIT FROM UP STREAM LUMINAIRES. CONNECT NEW LUMINAIRES AT THIS LOCATION AND THOSE LEFT ON THE EXISTING CIRCUIT DOWN STREAM FROM THIS POINT TO A NEW CIRCUIT FROM EXISTING LIGHTING PANEL "B". EXTEND NEW CIRCUIT CONDUCTORS VIA BORED CONDUIT FROM PULL BOX TO NEW STANDARDS.
- FEED NEW LIGHTING CIRCUIT FROM EXISTING PANEL "B" LOCATED INSIDE REST AREA BUILDING. SEE FLOOR PLAN ON SHEET 2C OR LOCATION. 2" 4" 1" 10GRD-2"C. PROVIDE NEW 20A/2P BREAKER IN PANEL "B".
- INTERCEPT EXISTING CIRCUIT FEEDING THIS POLE AND EXTEND TO NEW POLE LOCATIONS.
- INSTALL NEW SINGLE ARM STANDARD AND LUMINAIRE FURNISHED BY TDOT ON EXISTING FOUNDATION AND CONNECT TO EXISTING CIRCUIT. SEE DETAIL 3 ON SHEET 2C.
- REMOVE EXISTING FOUNDATION AND INSTALL NEW TYPE A PULL BOX. EXTEND EXISTING CIRCUIT CONDUCTORS VIA BORED CONDUIT FROM PULL BOX TO TWO NEW STANDARDS.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2003	80001-4175-04	3

SITE LIGHTING MODIFICATIONS



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

LIGHTING MODIFICATIONS

SCALE: 1"=100'

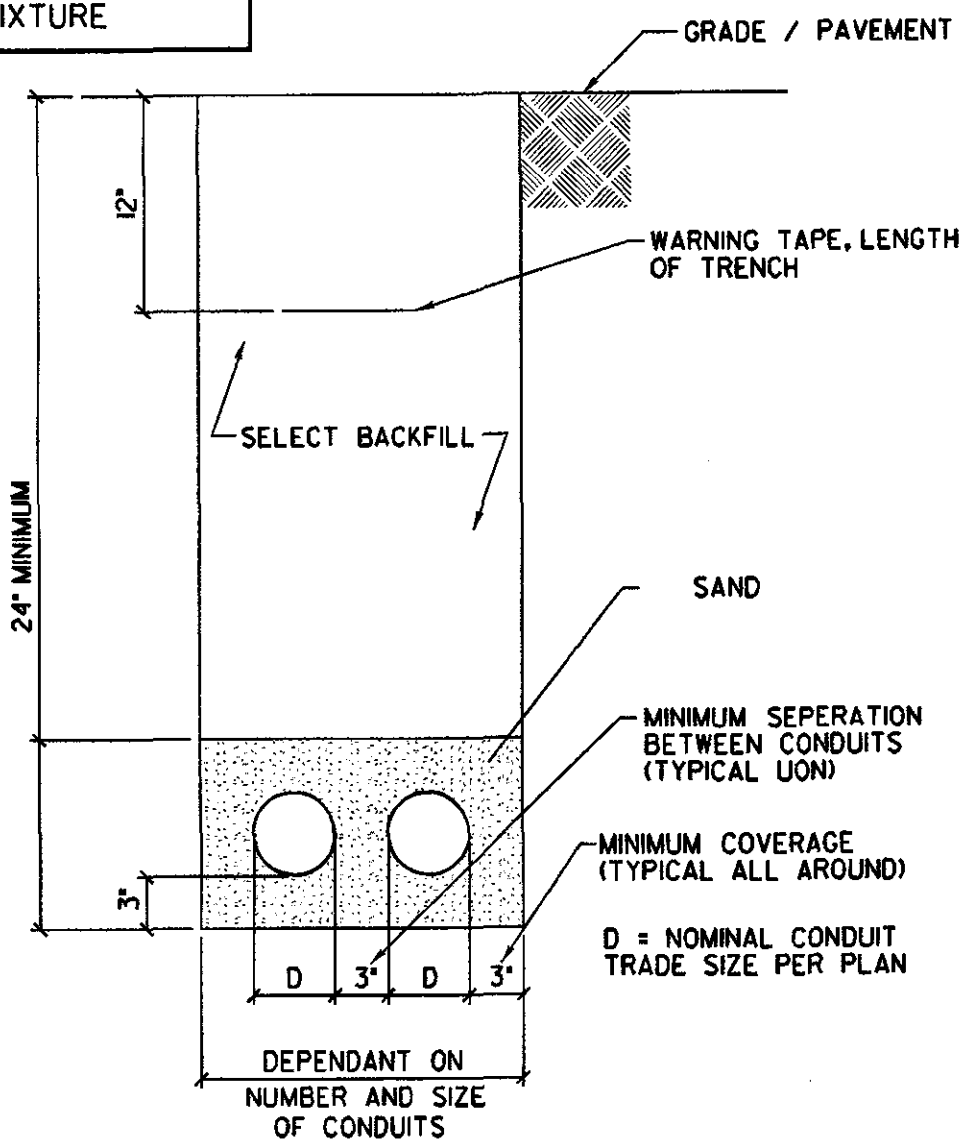
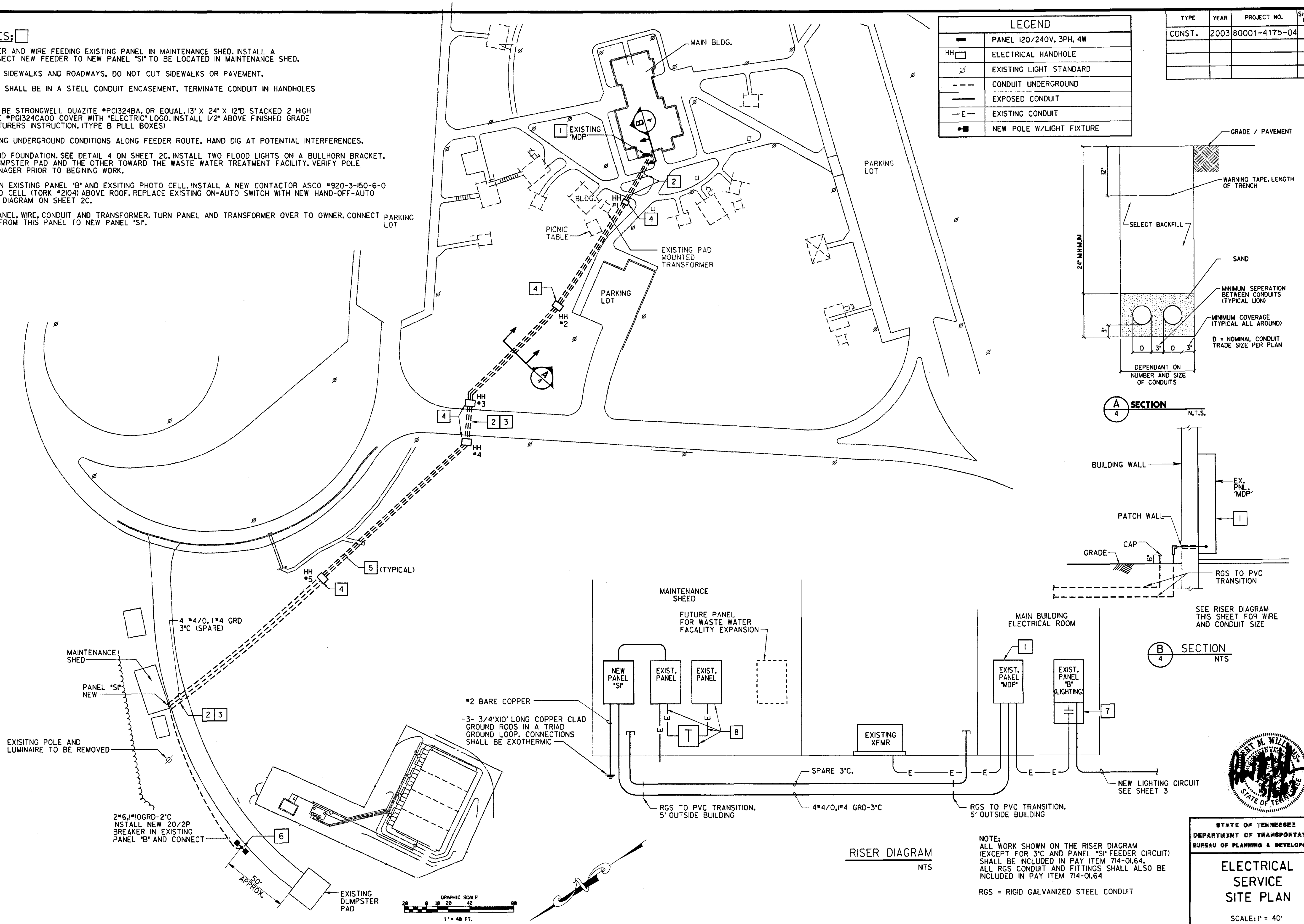
FILE NO. C-11
TENNESSEE D.O.T.
DESIGN DIVISION

KEYED ELECTRICAL NOTES:

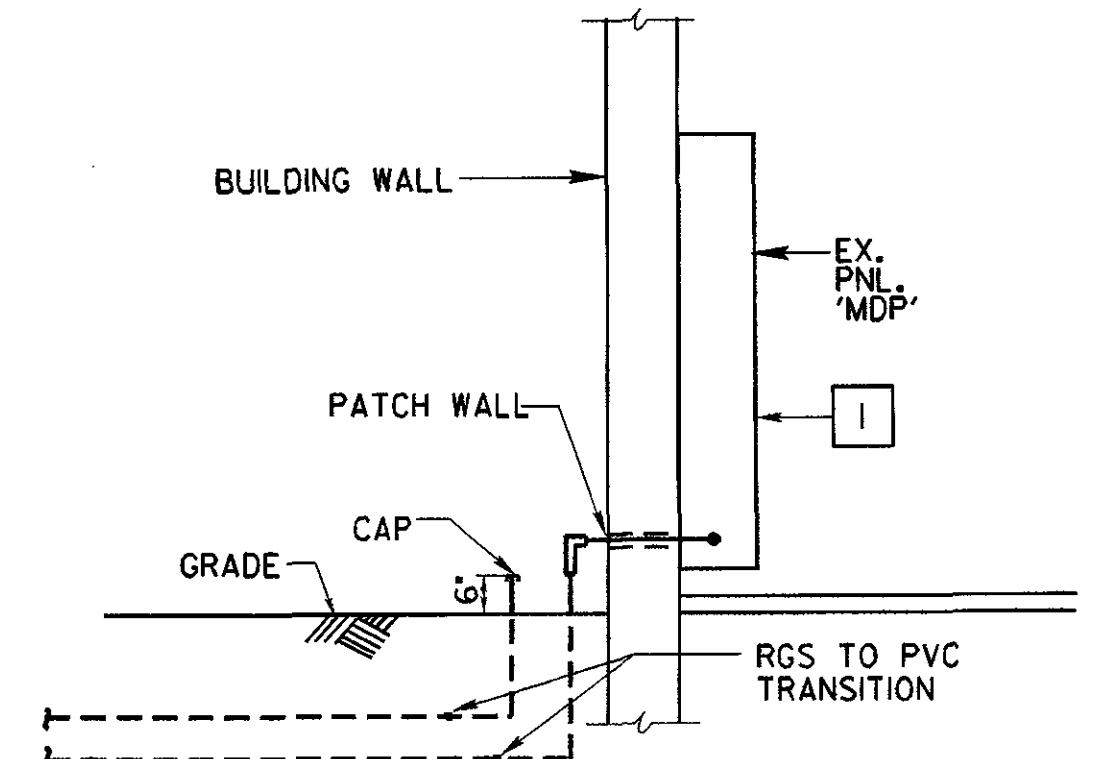
- 1 REMOVE EXISTING 150/3 BREAKER AND WIRE FEEDING EXISTING PANEL IN MAINTENANCE SHED. INSTALL A NEW 225/3 BREAKER AND CONNECT NEW FEEDER TO NEW PANEL "SI" TO BE LOCATED IN MAINTENANCE SHED.
- 2 JACK OR BORE CONDUIT UNDER SIDEWALKS AND ROADWAYS. DO NOT CUT SIDEWALKS OR PAVEMENT.
- 3 ALL CONDUIT UNDER PAVEMENT SHALL BE IN A STEEL CONDUIT ENCASEMENT. TERMINATE CONDUIT IN HANDHOLES ON EACH SIDE OF ROADWAY.
- 4 ELECTRICAL HANDHOLES SHALL BE STRONGWELL QUAZITE *PC1324BA, OR EQUAL, 13" X 24" X 12"D STACKED 2 HIGH FOR TOTAL 24" DEPTH. PROVIDE *PG1324CA00 COVER WITH "ELECTRIC" LOGO. INSTALL 1/2" ABOVE FINISHED GRADE IN ACCORDANCE WITH MANUFACTURERS INSTRUCTION. (TYPE "B" PULL BOXES)
- 5 CONTRACTOR TO VERIFY EXISTING UNDERGROUND CONDITIONS ALONG FEEDER ROUTE. HAND DIG AT POTENTIAL INTERFERENCES.
- 6 INSTALL A LIGHT STANDARD AND FOUNDATION. SEE DETAIL 4 ON SHEET 2C. INSTALL TWO FLOOD LIGHTS ON A BULLHORN BRACKET. AIM ONE LUMINAIRE TOWARD DUMPSTER PAD AND THE OTHER TOWARD THE WASTE WATER TREATMENT FACILITY. VERIFY POLE LOCATION WITH REST AREA MANAGER PRIOR TO BEGINNING WORK.
- 7 REMOVE EXISTING CONTACTOR IN EXISTING PANEL "B" AND EXISTING PHOTO CELL. INSTALL A NEW CONTACTOR ASCO #920-3-150-6-0 IN PANEL "B" AND A NEW PHOTO CELL (TORK #2104) ABOVE ROOF. REPLACE EXISTING ON-AUTO SWITCH WITH NEW HAND-OFF-AUTO SWITCH. SEE LIGHTING CONTROL DIAGRAM ON SHEET 2C.
- 8 REMOVE EXISTING 16 CIRCUIT PANEL, WIRE, CONDUIT AND TRANSFORMER. TURN PANEL AND TRANSFORMER OVER TO OWNER. CONNECT THE 2 EXISTING CIRCUITS FED FROM THIS PANEL TO NEW PANEL "SI".

LEGEND	
	PANEL 120/240V, 3PH, 4W
	ELECTRICAL HANDHOLE
	EXISTING LIGHT STANDARD
	CONDUIT UNDERGROUND
	EXPOSED CONDUIT
	EXISTING CONDUIT
	NEW POLE W/LIGHT FIXTURE

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2003	80001-4175-04	4



SECTION A
4 N.T.S.



SECTION B
4 N.T.S.

RISER DIAGRAM
NTS

NOTE:
ALL WORK SHOWN ON THE RISER DIAGRAM (EXCEPT FOR 3"C AND PANEL "SI" FEEDER CIRCUIT) SHALL BE INCLUDED IN PAY ITEM 714-01.64.
ALL RGS CONDUIT AND FITTINGS SHALL ALSO BE INCLUDED IN PAY ITEM 714-01.64
RGS = RIGID GALVANIZED STEEL CONDUIT



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

ELECTRICAL
SERVICE
SITE PLAN

SCALE: 1" = 40'

D:\MCDAL\FULL\4800\2504_2792336_27923364_rmmcdghey.dwg
5/6/04
16:04:06
Plot 1 copies :
rmmcdghey

TRAFFIC CONTROL NOTES

1. ADVANCE WARNING SIGNS TO BE PLACED PRIOR TO CONSTRUCTION AND TO REMAIN IN PLACE UNTIL THE COMPLETION OF THIS PROJECT.
2. THE TRAFFIC CONTROL PLAN DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR INSTALLING TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
3. TYPE "A" WARNING LIGHTS SHALL BE PLACED ON DESIGNATED ADVANCE WARNING SIGNS.
4. THE LOCATION OF ALL TRAFFIC CONTROL DEVICES ARE TO BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
5. THESE TRAFFIC CONTROL PLANS ARE TO SERVE AS A GUIDE ONLY. OTHER TRAFFIC CONTROL DEVICES MAY BE REQUIRED AS CONSTRUCTION PROGRESSES. THE CONTRACTOR WILL BE RESPONSIBLE FOR ASSURING THAT ALL TRAFFIC CONTROL IS APPROPRIATE FOR CURRENT CONSTRUCTION CONDITIONS. THE CONTRACTOR MAY SUBMIT ANOTHER TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH THE REQUIREMENTS IN THE MUTCD, TO THE ENGINEER FOR APPROVAL.
6. THE CONTRACTOR WILL BE REQUIRED TO HAVE A RESPONSIBLE PERSON ON CALL (WITHIN ONE HOUR), AT ALL TIMES, FOR TRAFFIC CONTROL DURING THE CONSTRUCTION OF THIS PROJECT.
7. CLOSURE OF THE EASTBOUND ENTRANCE AND EXIT RAMP SHALL BE LIMITED TO WORKING HOURS ONLY. WHEN NO WORK IS UNDERWAY, THE RAMP SHOULD BE REOPENED TO TRAFFIC.
8. SEE ELECTRICAL SHEETS FOR NATURE OF WORK TO BE DONE.
9. USE TYPE "C" LIGHTS ON DRUMS ACROSS RAMP CLOSURE.

TRAFFIC CONTROL LEGEND	
●●●	FLEXIBLE DRUMS (CHANNELIZING)
+	SIGN
A	TYPE "A" WARNING LIGHT
	TYPE III BARRICADE

SEQUENCE OF CONSTRUCTION

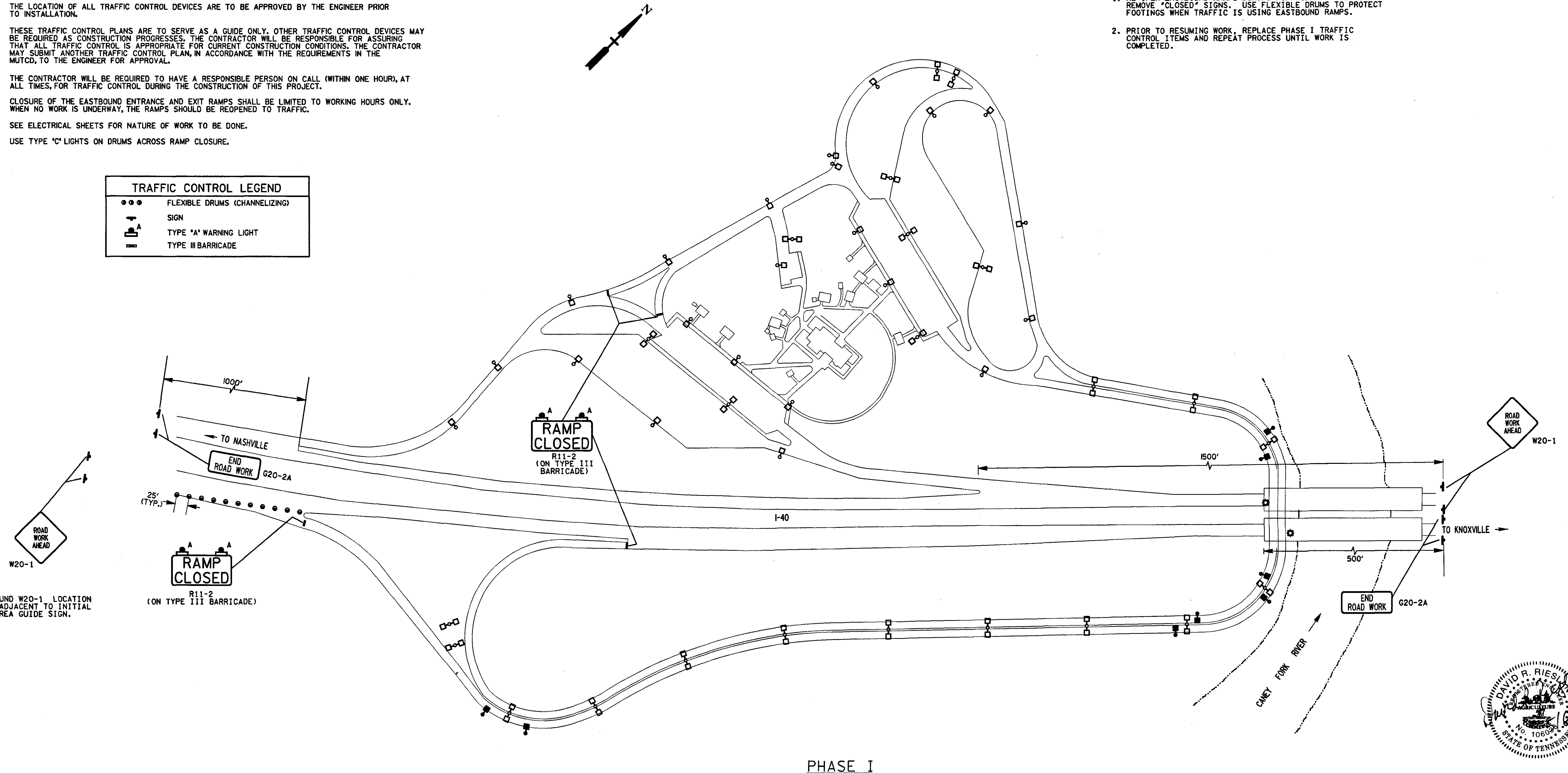
PHASE I

1. CLOSE EASTBOUND ENTRANCE AND EXIT RAMP. POST "CLOSED" SIGNS ON EASTBOUND REST AREA GUIDE SIGNS.
2. PERFORM SITE LIGHTING REVISIONS DURING WORKING HOURS USING FLEXIBLE DRUMS FOR WORK AREA PROTECTION ON WESTBOUND SIDE OF REST AREA.

PHASE II

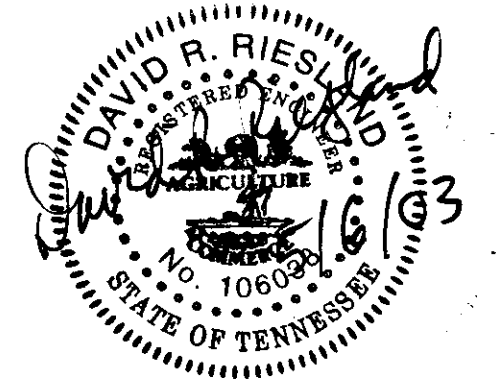
1. RE-OPEN EASTBOUND RAMP DURING NON-WORKING HOURS. REMOVE "CLOSED" SIGNS. USE FLEXIBLE DRUMS TO PROTECT FOOTINGS WHEN TRAFFIC IS USING EASTBOUND RAMP.
2. PRIOR TO RESUMING WORK, REPLACE PHASE I TRAFFIC CONTROL ITEMS AND REPEAT PROCESS UNTIL WORK IS COMPLETED.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2003	80001-4175-04	5



NOTE: EASTBOUND W20-1 LOCATION TO BE ADJACENT TO INITIAL REST AREA GUIDE SIGN.

PHASE I



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

SMITH COUNTY
REST AREA
TRAFFIC CONTROL
PHASE I

SCALE : 1"=100'

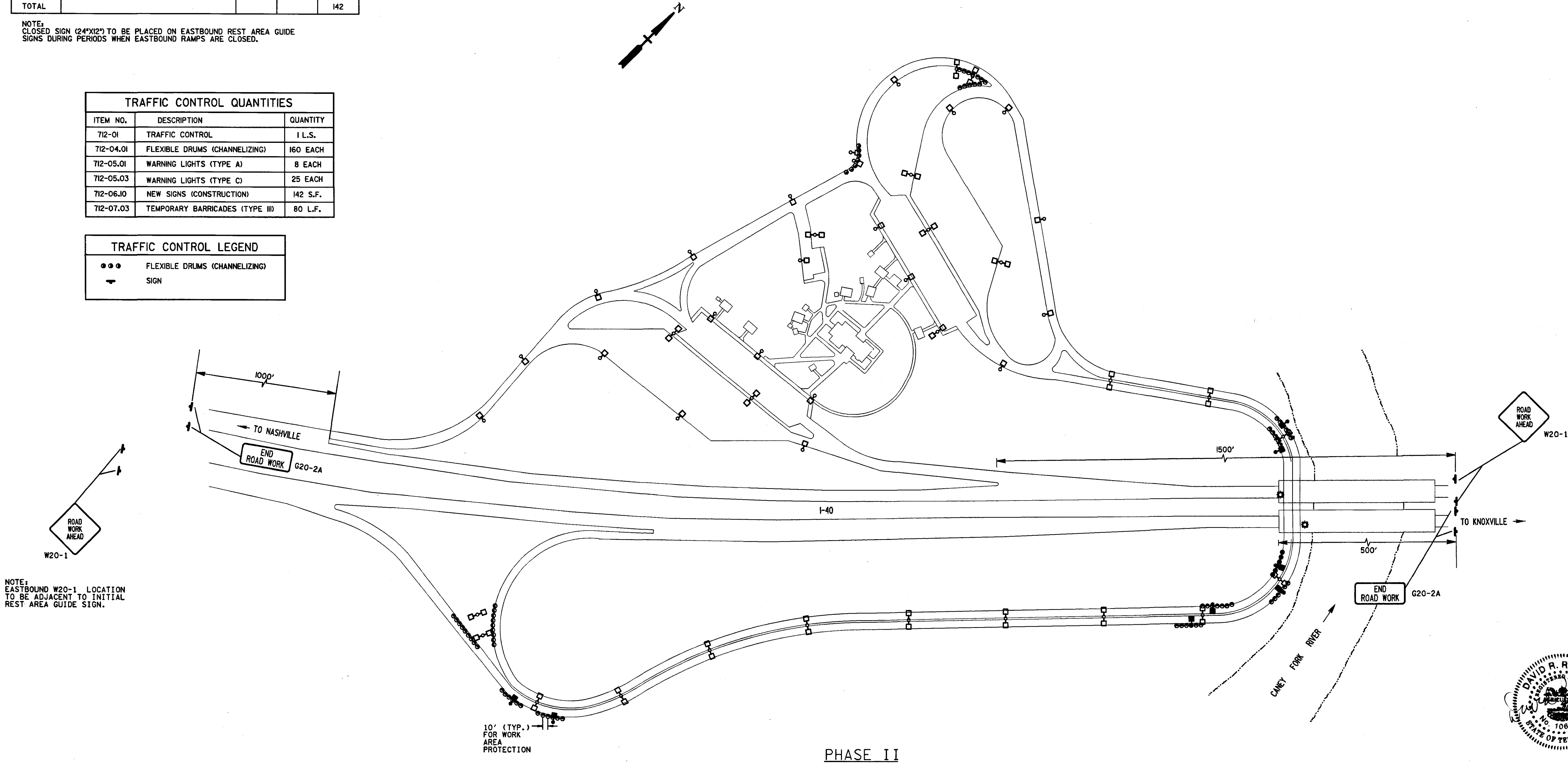
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2003	80001-4175-04	5A

TRAFFIC CONTROL SIGN QUANTITIES				
TYPE	DESCRIPTION	SIZE	EACH	S.F.
W20-1	ROAD WORK AHEAD	48"X48"	4	64
R11-2	RAMP CLOSED	48"X30"	4	40
SPECIAL	CLOSED	24"X12"	3	6
G20-2A	END ROAD WORK	48"X24"	4	32
TOTAL				142

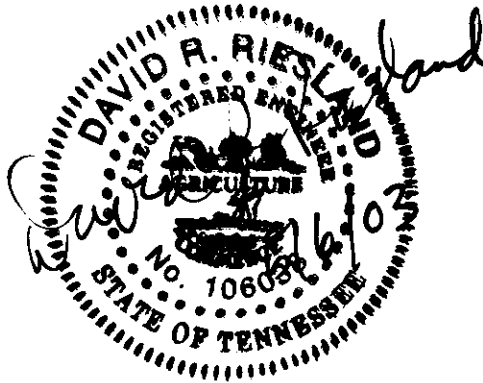
NOTE:
CLOSED SIGN (24"X12") TO BE PLACED ON EASTBOUND REST AREA GUIDE
SIGNS DURING PERIODS WHEN EASTBOUND RAMP ARE CLOSED.

TRAFFIC CONTROL QUANTITIES		
ITEM NO.	DESCRIPTION	QUANTITY
712-01	TRAFFIC CONTROL	1 L.S.
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	160 EACH
712-05.01	WARNING LIGHTS (TYPE A)	8 EACH
712-05.03	WARNING LIGHTS (TYPE C)	25 EACH
712-06.10	NEW SIGNS (CONSTRUCTION)	142 S.F.
712-07.03	TEMPORARY BARRICADES (TYPE III)	80 L.F.

TRAFFIC CONTROL LEGEND	
●●●	FLEXIBLE DRUMS (CHANNELIZING)
+	SIGN



NOTE:
EASTBOUND W20-1 LOCATION
TO BE ADJACENT TO INITIAL
REST AREA GUIDE SIGN.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

SMITH COUNTY
REST AREA
TRAFFIC CONTROL
PHASE II
SCALE : 1"=100'