ABBREVIATIONS

AAM AASHTO	ADVANCED ARTERIAL MANAGEMENT AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	PROPOS
AMC	ARTERIAL MANAGEMENT CENTER	
ASCT	ADAPTIVE SIGNAL CONTROL TECHNOLOGY	_
ATMS	ADVANCED TRAFFIC MANAGEMENT SYSTEM	
CTSS	CONTROLLED TRAFFIC SIGNAL SYSTEM	J.B.
EB	EASTBOUND	
FNMC	FLEXIBLE NONMETALLIC CONDUIT	ΗX
IP	INTERNET PROTOCOL	
ITS	INTELLIGENT TRANSPORTATION SYSTEM	-•
JB	JUNCTION BOX	
MAX.	MAXIMUM	
MIN.	MINIMUM	
M.P.	MILE POST	
MM_	MOBILITY MANAGEMENT_	_
MSĒ	MOBILITY & SYSTEMS ENGINEERING	-
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES	
NB	NORTHBOUND	((●
PDU	POWER DISTRIBUTION UNIT	
POE	POWER OVER ETHERNET	
RMC, R.M.C.		
RNMC, R.N.M.C.		
ROW, R.O.W.	RIGHT-OF-WAY	
RTE., RT.	ROUTE	
SB	SOUTHBOUND	
STMC	STATEWIDE TRAFFIC MANAGEMENT CENTER	
TOD		
TYP.		
WB	WESTBOUND	

ELECTRICAL EQUIPMENT ABBREVIATIONS

SFXSIGNAL FOUNDATION, TYPE "X"STFSTEEL TRAFFIC SIGNAL POLE FOUNDATIONTSATRAFFIC SIGNAL ASSEMBLYTSHTRAFFIC SIGNAL HEADTSMA-ATRAFFIC SIGNAL MAST ARM, ALUMINUMTSMA-STRAFFIC SIGNAL MAST ARM, STEELTSOTRAFFIC SIGNAL OPERATIONTSS-CTRAFFIC SIGNAL STANDARD, ALUMINUM "C"TSS-KTRAFFIC SIGNAL STANDARD, ALUMINUM "K"TSS-STRAFFIC SIGNAL STANDARD, STEELTSS-SCTRAFFIC SIGNAL STANDARD, STEELTSS-SCTRAFFIC SIGNAL STANDARD, STEELTSS-TTRAFFIC SIGNAL STANDARD, ALUMINUM "T"UL-PUNDERDECK LIGHTING, TYPE "P"UL-WUNDERDECK LIGHTING, TYPE "W"	DN

FIRM NAME	AME		
DEL	MODELNAME	PROJECT #	PROJECTNAME
ERNAME	ERNAME USERNAME	PROJECT NAME PROJECTDESCR	PROJECTDESCR
DT DATE DATE	DATE TIME	PLOTDRIVER	PLOTDRIVERABBREV
UNNME	עב אואאבן עבפג פאאנסו ב מו איו - טמוטואיו פחבבב		

<u>LEGEND</u>

ROPOSED	EXISTING	
	\leftarrow	SYSTEM DETECTOR, TYPE RADAR
-		18" X 36" JUNCTION BOX
J.B.	J.B.	JUNCTION BOX ITS, TYPE C
$\boxplus \boxtimes$		CONTROLLER CABINET WITH SKIRT
-	۲Ţ	IMAGE DETECTOR
	Ø	TRAFFIC SIGNAL POLE
−	<'	TRAFFIC SIGNAL HEAD
⊩	[⊢	PEDESTRIAN SIGNAL HEAD
(((●	(((O	WIRELESS ANTENNA

GENERAL NOTES

- 1. EXISTING INFORMATION WAS OBTAINED IN THE FIELD.
- 2. FIELD VERIFY THE LOCATION OF EXIST UNDERGROUND UTILITIES AND DRAINAG UNDERGROUND UTILITY OWNERS IS MAI ITS/ELECTRICAL FACILITIES. PROTECT AL BEFORE DIGGING AND NOTIFY THE RE
- 3. FIELD VERIFY EXISTING CONDUITS AND
- 4. COORDINATE WITH NEW JERSEY OFFIC SUBMITTING SHOP DRAWINGS.
- 5. REFER TO NJDOT WEBSITE (http://www. UNDERGROUND WIRES AND CABLES. PR START OF ANY WORK. STANDARD PRO CONTRACTOR TO PROVIDE TRAFFIC CO
- 6. COORDINATE WITH UTILITY COMPANIES
- 7. PROVIDE SUPPORT TO ANY UTILITY PO
- 8. SALVAGE AND RETURN REMOVED IMAG PERMITS, ELECTRICAL MAINTENANCE, ANI ENGINEER DETERMINES THAT THE CON REPAIR OR REPLACE THE EQUIPMENT
- 9. MOUNT AND INSTALL IMAGE DETECTOR LOCATIONS DEPICTED ON THE PLANS, TRAFFIC SIGNAL MAST ARM, MOUNT TH COVERAGE FOR THE TRAVEL LANES A OF THE STOP LINE TO EITHER A MINIM RECOMMENDED BY THE MANUFACTURE DETECTION ZONE SHALL EXTEND 10 FE THE DETECTION ZONE SHALL BE AS S OVERHEAD UTILITY PROXIMITY STANDA WIRES OBSCURING THE VISIBILITY OF COMPROMISING DETECTION ACCURACY. REMOVAL OF ANY EXISTING VEHICLE
- 10. RESTORE ALL DISTURBED OR DAMAGED ORIGINAL CONDITION.
- 11. ALL ELECTRICAL MATERIAL AND EQUIPM
- 12. EQUIP ALL SPARE/ EMPTY CONDUITS WI
- 13. COORDINATE WITH MOBILITY MANAGEM PORTS AT FIBER CROSS CONNECT CAR PORTS FOR USE ON THIS PROJECT.
- 14. SUBMIT WORKING DRAWINGS FOR ALL AND MODEL FOR ALL EQUIPMENT INSTA FOLLOW STANDARD ELECTRICAL/ITS D
- 15. FOR ITS GENERAL NOTES, LEGEND, AND

NOTE TO DESIGNER:

THIS SHEET REQUIRES DESIGN SPECIFIC INFOR THE CONTRACT PLANS. THESE NOTES CAN BE SPECIFIC CONDITIONS. ADDITIONAL NOTES MAY

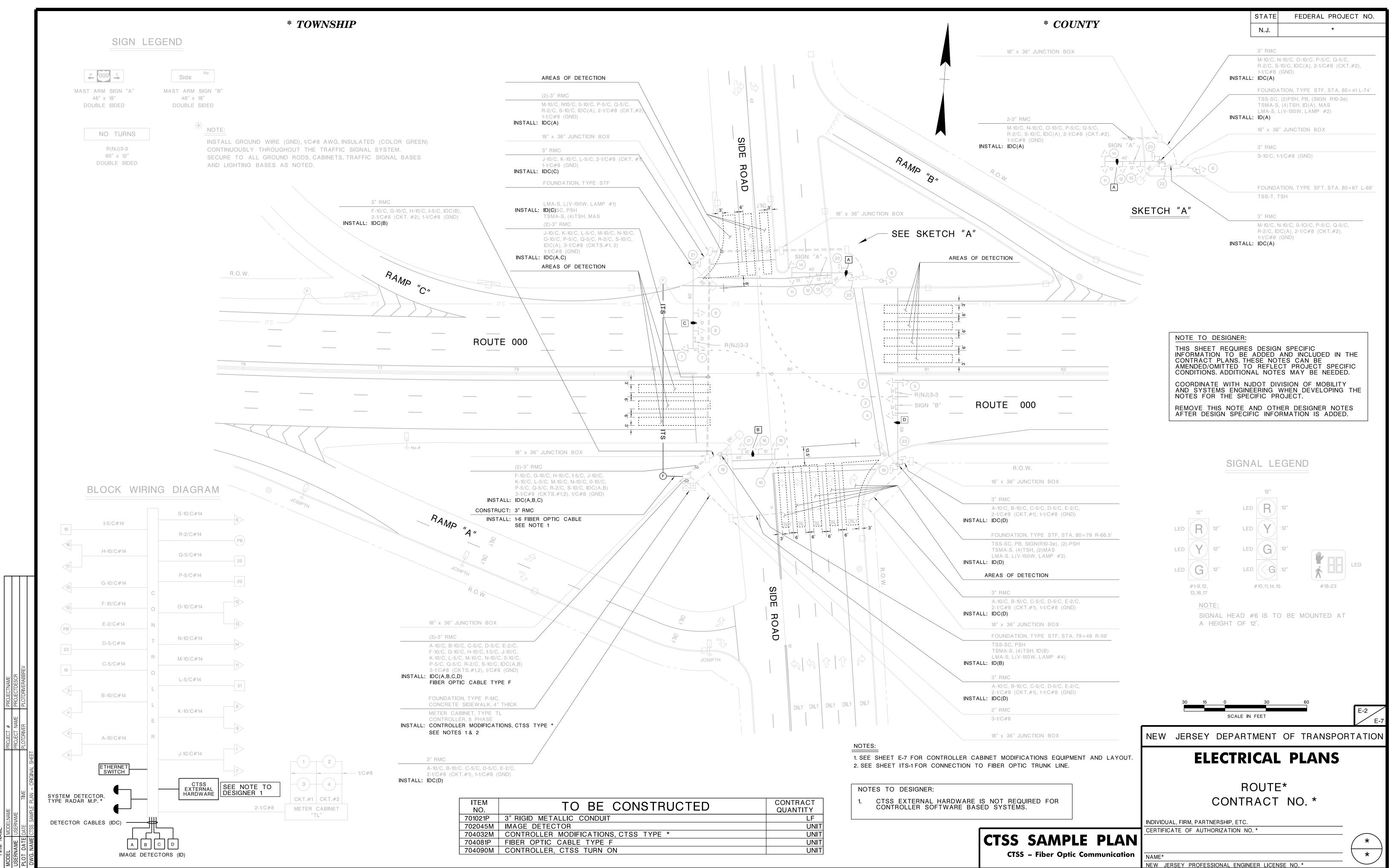
COORDINATE WITH NJDOT DIVISION OF MOBILI DEVELOPING THE NOTES FOR THE SPECIFIC

REMOVE THIS NOTE AND OTHER DESIGNER NO IS ADDED.

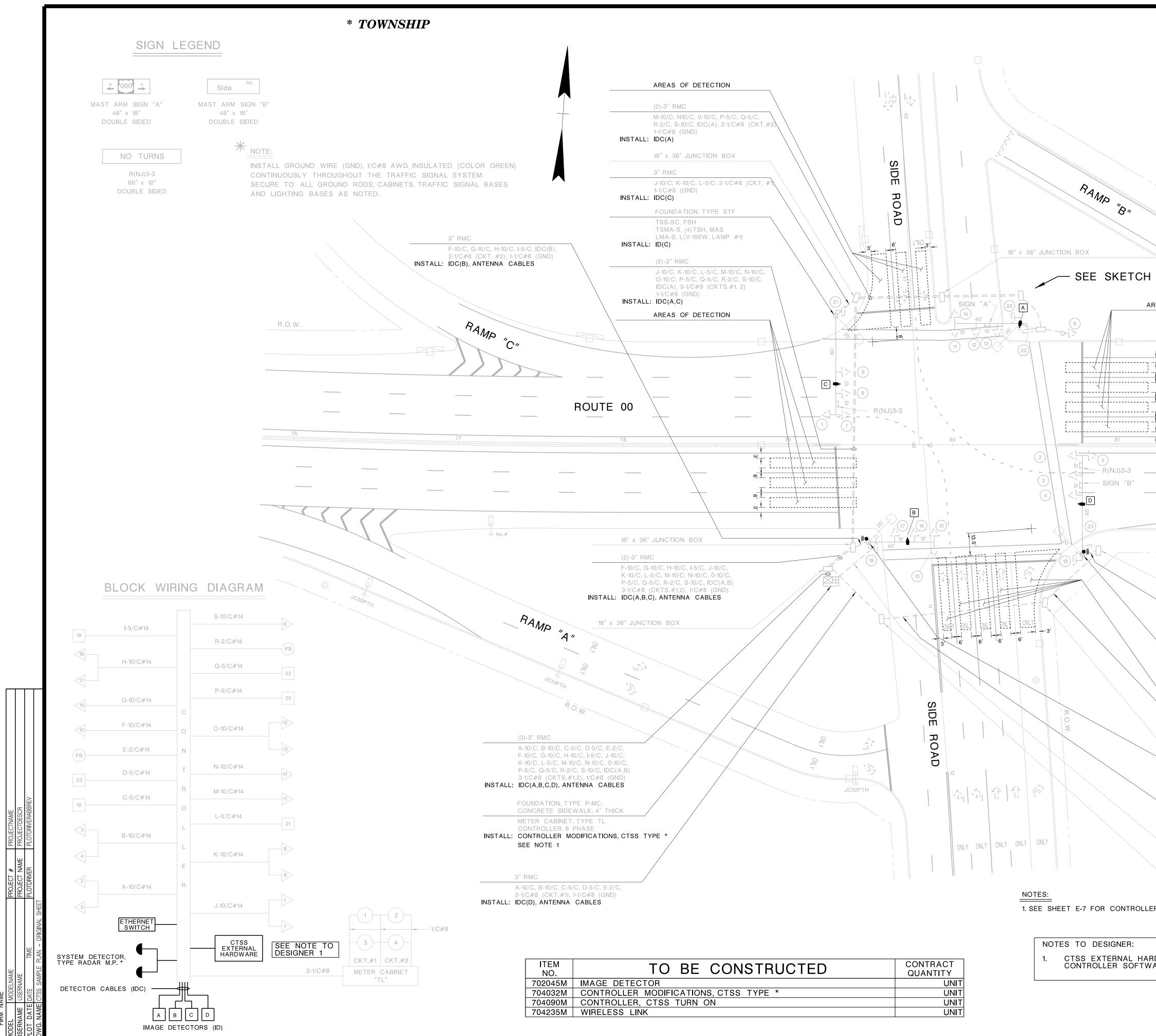


		STATE	FEDERAL PROJECT NO.	
		N.J.	*	
D FROM AVAILABLE AS-BUILT AND CONTRACTUA				
FROM AVAILABLE AS-BUILT AND CONTRACTUA	L PLANS FROM THE DEFART			
TING AERIAL UTILITIES BEFORE CONSTRUCTION. I GE FACILITIES BEFORE CONSTRUCTION. ENSURE M AINTAINED BETWEEN THE EXISTING SUBSURFACE ILL UTILITIES PER NJDOT 2007 SPECIFICATIONS, S OF ANY CONFLICTS BETWEEN EXISTING AND F	INIMUM DISTANCE REQUIRED AND AERIAL UTILITIES AND UBSECTION 105.07. CONTACT	BY THE THE PR "NJ ONE	OPOSED	
D JUNCTION BOXES THAT ARE TO BE USED IN	THIS PROJECT.			
CE OF INFORMATION TECHNOLOGY (NJOIT) TO C	BTAIN NETWORKING INFORM	ATION P	RIOR TO	
v.state.nj.us/transportation/eng/elec/ITS/markout.shtm) ROVIDE A MINIMUM OF 10 STATE BUSINESS DAYS OVISIONS 105 AND 701 APPLY FOR EXISTING ITS ONTROL REQUIRED FOR MARK OUT OPERATIONS	S NOTICE TO TRAFFIC OPEF SYSTEMS. IT IS THE RESPOI	ATIONS	PRIOR TO	
S FOR THE INSTALLATION OF AERIAL AND SUBS	URFACE UTILITIES.			
OLE WHERE THERE IS AN EXCAVATION FOR TH	E INSTALLATION OF UNDERG	ROUND	JTILITIES.	
GE DETECTORS, MOUNTING HARDWARE, AND OTHIND ND CLAIMS, OR OTHER LOCATION AS DIRECTED IN ITRACTOR'S REMOVAL OPERATIONS RESULTED IN TO THE SATISFACTION OF THE RESIDENT ENGIN	BY THE RESIDENT ENGINEER. DAMAGE TO THE TRAFFIC	IF THE SIGNAL	RESIDENT EQUIPMENT,	
AND IN CONFORMANCE TO THE LATEST AASHTO AND IN ACCORDANCE WITH THE MANUFACTUREN HE IMAGE DETECTOR AT A POSITION ALONG TH AND DETECTION ZONE INDICATED. THE DETECTION MUM OF 40 FEET BEYOND THE STOP LINE OR A R OF THE CTSS/ASCT SYSTEM, WHICHEVER IS G EET FROM IN FRONT OF THE STOP LINE TO 10 SHOWN ON THE PLANS. INSTALLATION OF IMAGE ARDS FOR THE DEPARTMENT. THE IMAGE DETEC THE DETECTION ZONE. MAXIMIZE IMAGE DETECT . ENSURE NEW IMAGE DETECTORS ARE OPERATION DETECTION.	R'S RECOMMENDATIONS. WHE IE MAST ARM THAT PROVID N ZONE SHALL EXTEND FRO S FAR BACK FROM THE ST REATER. DURING ITS GREEN FEET BEYOND THE STOP LIN DETECTORS SHALL CONFOR TORS SHALL BE POSITIONED OR SURVEILLANCE COVERAG	N MOUN ES OPTI OP LINE PHASE, JE. THE RM TO TO AV E AREA	TED ON A MAL ET IN FRONT AS THE WIDTH OF ALL OID UTILITY WITHOUT	
D GUIDE RAIL, PAVEMENT, SIDEWALKS, CURBS, CO	NDUITS, OR OTHER INFRASTR	UCTURE	TO THEIR	
MENT FOR WHICH THERE ARE ESTABLISHED UL	STANDARDS SHALL REAR TH	4E 10 17		
/ITH DRAG/ PULL WIRE, TERMINATE IN A JUNCTIO				
MENT THROUGH ACCESS FORM ON WEB TO RES				
EQUIPMENT AND EQUIPMENT LIST TABLE SHOW ALLED UNDER THIS PROJECT. REFER TO TABLE DETAILS. D ABBREVIATIONS, REFER TO ITS SAMPLE PLANS	105.05-1 OF THE SPECIAL PRC	VISIONS	FOR DETAILS	
PRMATION TO BE ADDED AND INCLUDED IN				
Y BE NEEDED.				
ITY AND SYSTEMS ENGINEERING WHEN PROJECT.				
IOTES AFTER DESIGN SPECIFIC INFORMATION				
			E-1	
				E-7
	NEW JERSEY DEPART	MENT	OF TRANSPORTATIO)N
	ELECTRICAL	GFN		5
				•
	CONTE	OUTE RACT	-	
	INDIVIDUAL, FIRM, PARTNERSHIP, ETC.			
SAMPLE PLAN	CERTIFICATE OF AUTHORIZATION NO). *		
	NAME*			\rightarrow

NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. *

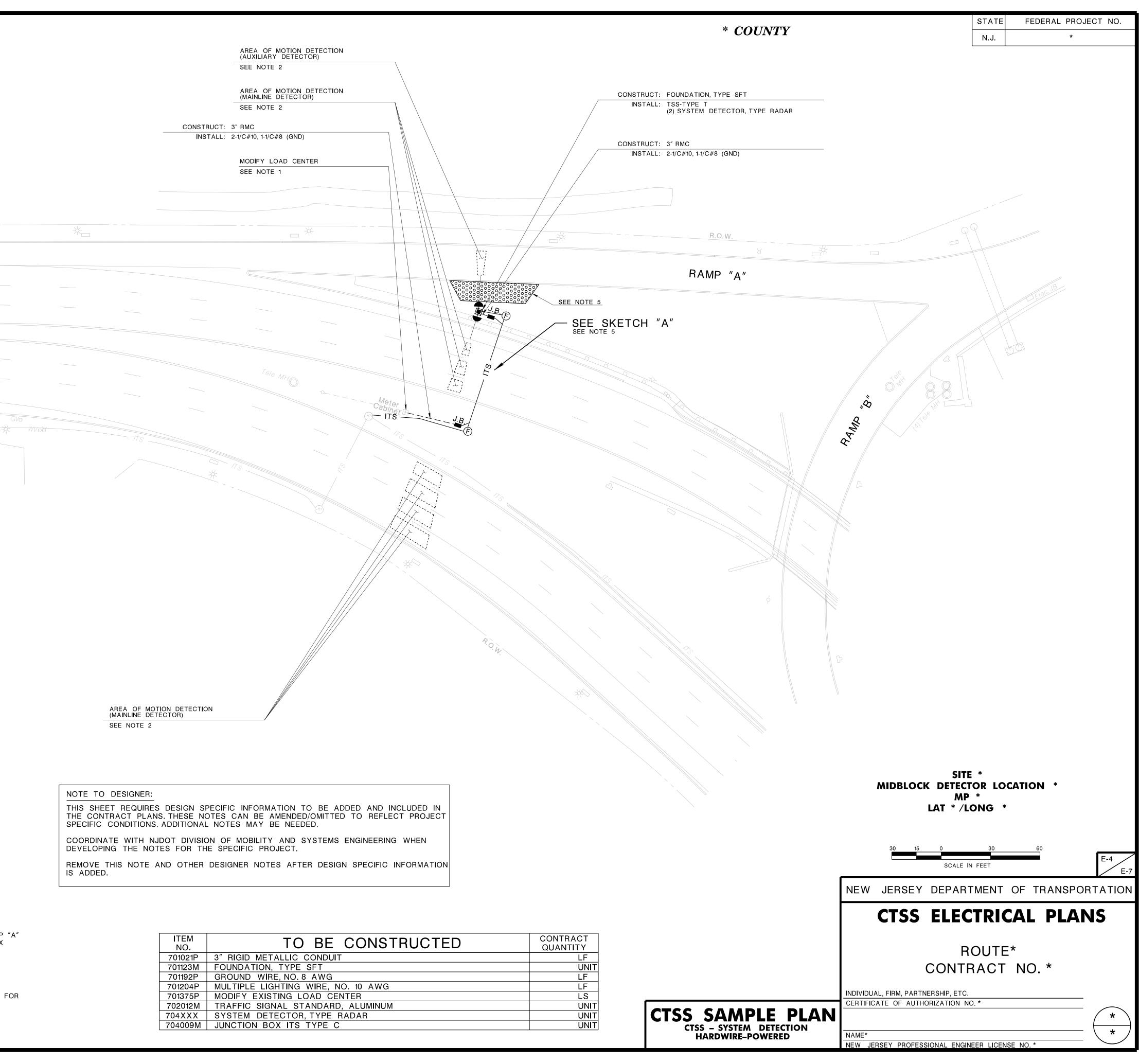


ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
701021P	3" RIGID METALLIC CONDUIT	LF
702045M	IMAGE DETECTOR	UNIT
704032M	CONTROLLER MODIFICATIONS, CTSS TYPE *	UNIT
704081P	FIBER OPTIC CABLE TYPE F	UNIT
704090M	CONTROLLER, CTSS TURN ON	UNIT

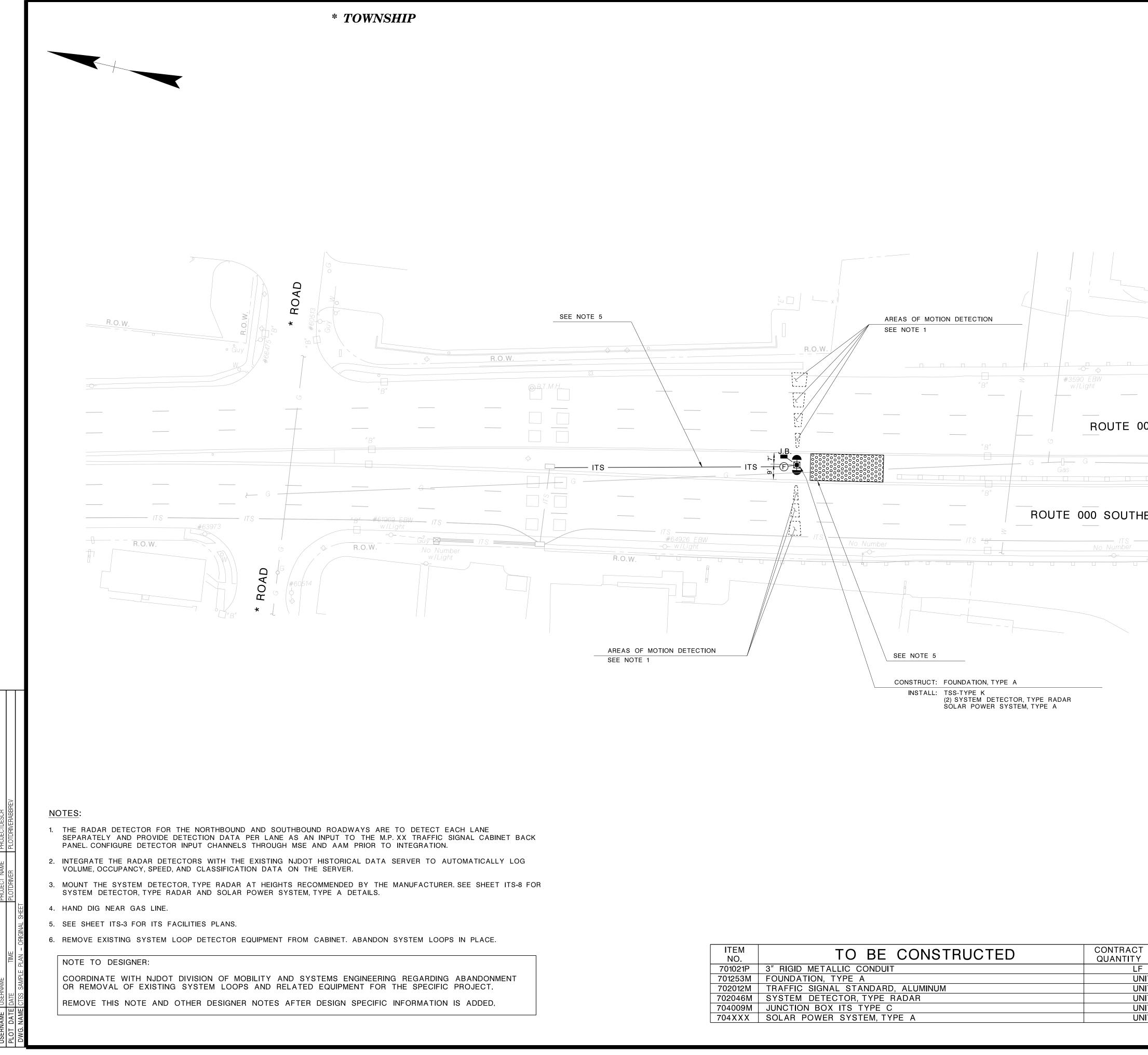


	* COUNTY		STATEFEDERAL PROJECN.J.*	CT NO.
	18" x 36" JUNCTION BOX	INSTALL:		
	2-3″ RMC		FOUNDATION, TYPE STF, STA. 80+41 TSS-SC, (2)PSH, PB, (SIGN R10-3e) TSMA-S, (4)TSH, ID(A), MAS LMA-S, L(V-150W, LAMP #2) ID(A)	L-74
	M-10/C, N-10/C, O-10/C, P-5/C, Q-5/C, R-2/C, S-10/C, IDC(A), 2-1/C#8 (CKT.#2),		18" x 36" JUNCTION BOX	
	FI/C#8 (GND)		3" RMC S-10/C, 1-1/C#8 (GND)	
	$(1) \int (12) (13) (12) (13) (13) (12) (13) (13) (13) (13) (13) (13) (13) (13$		FOUNDATION, TYPE SFT, STA. 80+67 TSS-T, TSH	L-68'
"A"	<u>SKE</u>		3" RMC M-10/C, N-10/C, 0-10/C, P-5/C, Q-5/C, R-2/C, IDC(A), 2-1/C#8 (CKT.#2), 1-1/C#8 (GND) IDC(A)	_
AS OF DI ٣ ٣ ٣ ٣ ٣ ٣ ٣ ٣ ٣ ٣ ٣ ٣ ٣ ٣ ٣ ٣ ٣ ٣ ٣		CONTRACT PLANS. THE	DDED AND INCLUDED IN THE	
σ	82	CONDITIONS. ADDITIONAL	- NOTES MAY BE NEEDED. OT DIVISION OF MOBILITY	
		NOTES FOR THE SPECI	RING WHEN DEVELOPING THE FIC PROJECT. ID OTHER DESIGNER NOTES	≣
RO	UTE 000		C INFORMATION IS ADDED.	
	R.O.W. 18" x 36" JUNCTION BOX 3" RMC A-10/C, B-10/C, C-5/C, D-5/C, E-2/C,	SIGN	AL LEGEND 12'' D R $12''$	
	2-1/C#8 (CKT.#1), 1-1/C#8 (GND) IDC(D), ANTENNA CABLES FOUNDATION, TYPE STF, STA. 80+79 R-66.5' TSS-SC, PB, SIGN(R10-3e), (2)-PSH TSMA-S, (4)TSH, (2)MAS LMA-S, L(V-150W, LAMP #3) ID(D), WIRELESS LINK AREAS OF DETECTION	LED R 12" LE LED Y 12" LE LED G 12" LE	D Y 12" D G 12"	LED
INSTALL:	3" RMC A-10/C, B-10/C, C-5/C, D-5/C, E-2/C, 2-1/C#8 (CKT.#1), 1-1/C#8 (GND) IDC(D), ANTENNA CABLES 18" x 36" JUNCTION BOX	#1-9,12, 13,16,17 <u>NOTE:</u> SIGNAL HEAD	#10,11,14,15 #18-23 #6 IS TO BE MOUNTED AT	
INSTALL:	FOUNDATION, TYPE_STF, STA. 79+49 R-59' TSS-SC, PSH TSMA-S, (4)TSH, ID(B) LMA-S, L(V-150W, LAMP #4) ID(B), WIRELESS LINK 3" RMC	A HEIGHT OF		
INSTALL	A-10/C, B-10/C, C-5/C, D-5/C, E-2/C, 2-1/C#8 (CKT.#1), 1-1/C#8 (GND) IDC(D), ANTENNA CABLES			
	2" RMC 3-1/C#6	30 15 0	30 60	E-3
	18" x 36" JUNCTION BOX	NEW JERSEY DEPART	MENT OF TRANSPOR	
CABINE	T MODIFICATIONS EQUIPMENT AND LAYOUT.		ICAL PLANS	
WARE I	S NOT REQUIRED FOR ED SYSTEMS.		OUTE* RACT NO. *	
		INDIVIDUAL, FIRM, PARTNERSHIP, ETC. CERTIFICATE OF AUTHORIZATION NO	D. *	
	CTSS SAMPLE PLAN			*
	CTSS – Wireless Communication	NAME* NEW JERSEY PROFESSIONAL ENGIN	EEB LICENSE NO *	*

	* TOWNSHIP
	R.O.W.
	ROUTE 000 NORTHBOUND
	ROUTE 000 SOUTHBOUND
	X
	R.O.W.
	ITS HUB
	JUNCTION BOX ITS, TYPE C
	ITS CONDUIT, TYPE A
	SEE NOTE 5 INSTALL: 2-1/C#10, 1-1/C#8 (GND)
	JUNCTION BOX ITS, TYPE C
~	J.B.
PLOTDRIVERABBREV	F
	<u>SKETCH "A"</u>
PROJECT NAME PLOTDRIVER SHEET	(N.T.S.)
	<u>NOTES:</u> 1. SEE SHEET E-XX FOR LOAD CENTER MODIFICATION DETAIL.
AN - ORIGINAL	2. THE SYSTEM DETECTORS, TYPE RADAR FOR THE ROUTE 000 NORTHBOUND AND SOUTHBOUND ROADWAYS AND RAMP ARE TO DETECT EACH LANE SEPARATELY AND PROVIDE DETECTION DATA PER LANE AS AN INPUT TO THE M.P. XX TRAFFIC SIGNAL CABINET BACK PANEL. CONFIGURE DETECTOR INPUT CHANNELS THROUGH MSE AND AAM PRIOR TO
AME TIME SAMPLE PLAN	INTEGRATION. 3. INTEGRATE THE SYSTEM DETECTORS, TYPE RADAR WITH THE EXISTING NJDOT HISTORICAL DATA SERVER TO
USERNAME USERNAME PLOT DATE DATE DWG. NAME CTSS SAM	AUTOMATICALLY LOG VOLUME, OCCUPANCY, SPEED, AND CLASSIFICATION DATA ON THE SERVER. 4. MOUNT THE SYSTEM DETECTOR, TYPE RADAR AT HEIGHTS RECOMMENDED BY THE MANUFACTURER. SEE SHEET ITS-8 F SYSTEM DETECTOR, TYPE RADAR AND SOLAR POWER SYSTEM, TYPE A DETAILS.
G NAME	5. SEE SHEET ITS-2 FOR ITS FACILITIES PLANS. 6. SEE SHEET ITS-9 FOR DETAILS.



ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
701021P	3" RIGID METALLIC CONDUIT	LF
701123M	FOUNDATION, TYPE SFT	UNIT
701192P	GROUND WIRE, NO. 8 AWG	LF
701204P	MULTIPLE LIGHTING WIRE, NO. 10 AWG	LF
701375P	MODIFY EXISTING LOAD CENTER	LS
702012M	TRAFFIC SIGNAL STANDARD, ALUMINUM	UNIT
704XXX	SYSTEM DETECTOR, TYPE RADAR	UNIT
704009M	JUNCTION BOX ITS TYPE C	UNIT



ITEM	TO BE CONSTRUCTED	CONTRACT
NO.	TO DE CONSTRUCTED	QUANTITY
701021P	3" RIGID METALLIC CONDUIT	LF
701253M	FOUNDATION, TYPE A	UNIT
702012M	TRAFFIC SIGNAL STANDARD, ALUMINUM	UNIT
702046M	SYSTEM DETECTOR, TYPE RADAR	UNIT
704009M	JUNCTION BOX ITS TYPE C	UNIT
704XXX	SOLAR POWER SYSTEM, TYPE A	UNIT

* COUNTY		STATEFEDERAL PROJN.J.*	
	/ / /	1	
R.O.W.			
	No Number		7
	#3569 EBW		-0-
© B.T.M.H.	#3569_EBW w/Light	/ /	
00 NORTHBOUND			
G G G			
BOUND			
ITS#3643_EBW 		ITS #364- w/Ligh	
R.O.W.	No Aumber		
	$\begin{bmatrix} \hat{G} & \\ G & \\ \end{bmatrix}$		
	SITE MIDBLOCK DETECT MILE P	OR LOCATION X	
	30 15 0	30 60	
	SCALE IN		E-5 E-7
	NEW JERSEY DEPART	MENT OF TRANSPO	RTATION
	ELECTR	ICAL PLANS	
	R	OUTE*	
		RACT NO.*	
	INDIVIDUAL, FIRM, PARTNERSHIP, ETC. CERTIFICATE OF AUTHORIZATION NO	D. *	\frown
T CTSS SAMPLE PLAN CTSS - SYSTEM DETECTION SOLAR POWERED	NAME*		* *
	NEW JERSEY PROFESSIONAL ENGIN	IEER LICENSE NO. *	\checkmark

PHASE

NOTES TO DESIGNER:

- 1. The maximum cycle length shall be fixed between 210 and 240 seconds during CTSS operation. Coordinate with NJDOT to determine cycle length.
- 2. During the transition into emergency vehicle or transit priority control, the shortening of any pedestrian walk interval below that time shall not be permitted. During the transition into railroad preemption control, the shortening or omission of any pedestrian walk interval and/or pedestrian change interval shall be permitted, in accordance with MUTCD guidelines.
- 3. Remove this note and other designer notes after design specific information is added.

A.RTE 00 PEDEST CHANGE CLEARA

B. SIDE RD. LEAD C

C. SIDE RD. CHANGE CLEARA

A.RTE 00 PEDEST CHANGE CLEARA

B. SIDE RD LEAD

C. SIDE RD PEDEST CHANGE CLEARA

EMERGENC

A.RTE 00

A.RTE 00 PEDEST CHANGE CLEARA

B. SIDE RD

A.RTE 00

HOURS OF OPERATION

	A.RTE 00 R.O.W.	G	R	R	W	DW 🔨	
			PREEMP	PTION A	CTUATION	1	> 7 (Min)
	A.RTE 00 R.O.W.	G	R	R	W	DW	
CYCLE LENGTH	PEDESTRIAN CLEARANCE	G	R	R	FDW	DW	17
100	CHANGE	Y	R	R	DW	DW	6
120	CLEARANCE	R	R	R	DW	DW	2
150	B. SIDE RD EB R.O.W.	R	G	R	DW	DW	30 (Min)
		R	Y	R	DW	DW	3
240		R	R	R	DW	DW	4
240	A.RTE 00 R.O.W.	G	R	R	W	DW	10 (Min)
240			R	ESUME I	NORMAL (OPERATION	

	PROJECT # PROJECTNAME	PROJECT NAME PROJECTDESCR	PLOTDRIVER PLOTDRIVERABBREV	SHEET
(ME	MODELNAME	USERNAME	DATE TIME	DWG. NAME CTSS SAMPLE PLAN - ORIGINAL SHEET
FIRM NAME	MODEL	USERNAME USERNAME	PLOT DATE DATE	DWG. NAME

			F
Plan I:	6:00 A.M 9:30 A.M. Monday thru Friday	120	CI
Plan II:	All Other Times	150	B. SI
Plan XI:	Incident Management Northbound Progression - Soft Diversion	240	
Plan XII:	Incident Management Northbound Progression - Hard Diversion	240	A. RT
Plan XI:	Incident Management Southbound Progression - Soft Diversion	240	
Plan XI:	Incident Management Southbound Progression - Hard Diversion	240	

ROUTE 000 AND SIDE ROAD

Ē		SIGN	AL INDICA	TIONS			TIME (SE	CONDS)	
			NORM	IAL OPER	RATION		FALLE	BACK TOD P	LANS
	1-7	8, 10	9, 11	12, 13, 16, 17	14, 15	ADAPTIVE MODE*	PLAN I	PLAN II	PLAN XI, XI XIII, XIV
0 R.O.W.	G	R	R	W	DW	7 (Min)	73-53	103-85	193-165
STRIAN CLEARANCE	G	R	R	FDW	DW	17	17	17	17
GE	Y	R	R	DW	DW	6**	6	6	6
RANCE	R	R	R	DW	DW	2	2	2	2
D. WB LEAD	R	R	G/ <g-< td=""><td>DW</td><td>DW</td><td>5 (Min)</td><td>5-12</td><td>5-10</td><td>5-15</td></g-<>	DW	DW	5 (Min)	5-12	5-10	5-15
CHANGE	R	R	G/ <y-< td=""><td>DW</td><td>DW</td><td>3</td><td>3</td><td>3</td><td>3</td></y-<>	DW	DW	3	3	3	3
RD. R.O.W.	R	G	G	DW	DW	7 (Min)	7-20	7-20	7-25
GE	R	Y	Y Y	DW	DW	3	3	3	3
RANCE	R	R	R	DW	DW	4	4	4	4
		W	/ITH PEDE	ESTRIAN	ACTUATION				
00 R.O.W.	G	R	R	W	DW	7 (Min)	42	72	162
STRIAN CLEARANCE	G	R	R	FDW	DW	17	17	17	17
GE	Y	R	R	DW	DW	6**	6	6	6
RANCE	R	R	R	DW	DW	2	2	2	2
RD. WB LEAD	R	R	G/ <g-< td=""><td>DW</td><td>DW</td><td>5 (Min)</td><td>5</td><td>5</td><td>5</td></g-<>	DW	DW	5 (Min)	5	5	5
CHANGE	R	R	G/ <y-< td=""><td>DW</td><td>DW</td><td>3</td><td>3</td><td>3</td><td>3</td></y-<>	DW	DW	3	3	3	3
	П	C	0		14/	7 (Min)	7	7	7
RD. R.O.W. STRIAN CLEARANCE	R R	G G	G G	DW DW	W FDW	7 (Min) 31	7 31	7 31	7 31
GE	R	Y	Y	DW	DW	3	3	3	3
RANCE	R	R	R	DW	DW	4	4	4	4
ICY FLASHING OPERATION	Y	R	R	DARK	DARK	-	-	-	-
		SIDE			EQUENCE ION ACTUAT	ΓΙΟΝ			
0 R.O.W.	G	R	R	W	DW 🔨				
		PREEM	PTION AC	CTUATIO	N	7 (Min)			
0 R.O.W.	G	R	R	W	DW				
STRIAN CLEARANCE	G	R	R	FDW	DW	17			
GE	Y	R	R	DW	DW	6			
RANCE	R	R	R	DW	DW	2			
RD WB R.O.W.	R	R	G/ <g-< td=""><td>DW</td><td>DW</td><td>30 (Min)</td><td></td><td></td><td></td></g-<>	DW	DW	30 (Min)			
	R	R	Y Y	DW	DW	3			
	R	R	R	DW	DW	4			
0 R.O.W.	G	R	R	W	DW	10 (Min)			
		F	RESUME N	IORMAL	OPERATION				
		SIDE	RD EB P	REEMPTI	ON ACTUAT	ION			
0 R.O.W.	G	R	R	W	DW 🔨				

NOTES:

- 1. Vehicle interval is to be set at 2 seconds.
- 2. The memory circuit is to be off.
- 3. The controller is to rest in mainline R.O.W. green.
- 4. The manual control is to be disconnected.
- 5. Any unactuated phases shall be skipped.
- 6. Calls to non-actuated CNA shall be set to off.
- 7. Detector switching shall be provided so that the Side Rd. WB Lead (Phase B) movement may extend the Side Rd ROW (Phase C) movement.

STATE

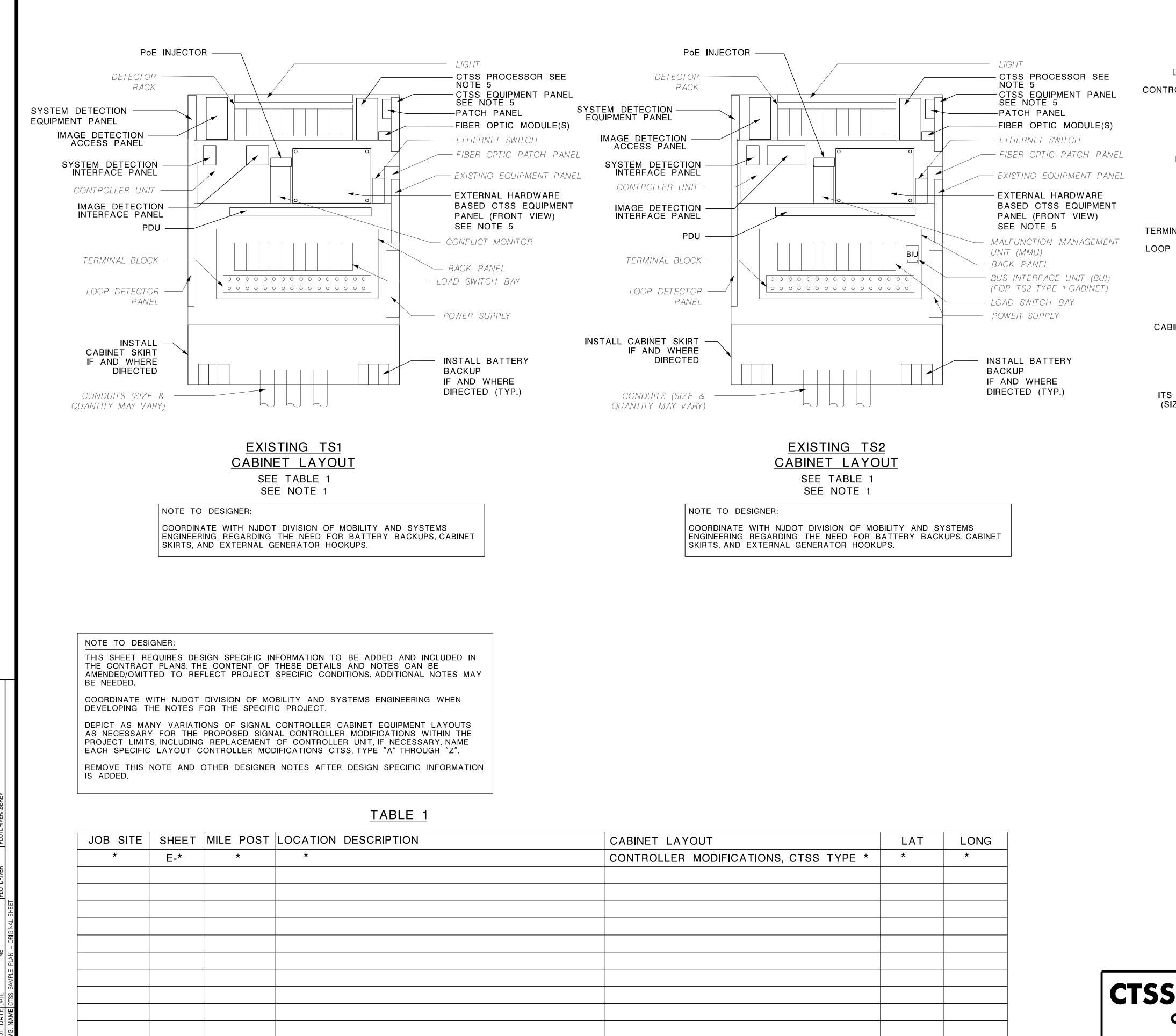
N.J.

FEDERAL PROJECT NO.

*

- 8. *The maximum cycle length shall be XXX seconds.
- 9. If adaptive system fails or is turned off, controller will revert to Timing Plans I - II and XI - XIV.
- 10. **Offsets are to be measured from the beginning of yellow to Route 00 traffic at this intersection.
- 11. Phase C must follow Phase B.

	E-6 E-7
	NEW JERSEY DEPARTMENT OF TRANSPORTATION
	ELECTRICAL DETAILS
	ROUTE* CONTRACT NO. *
TSS SAMPLE PLANS	INDIVIDUAL, FIRM, PARTNERSHIP, ETC. CERTIFICATE OF AUTHORIZATION NO. *
CTSS TIMING DIRECTIVE	NAME* NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. *

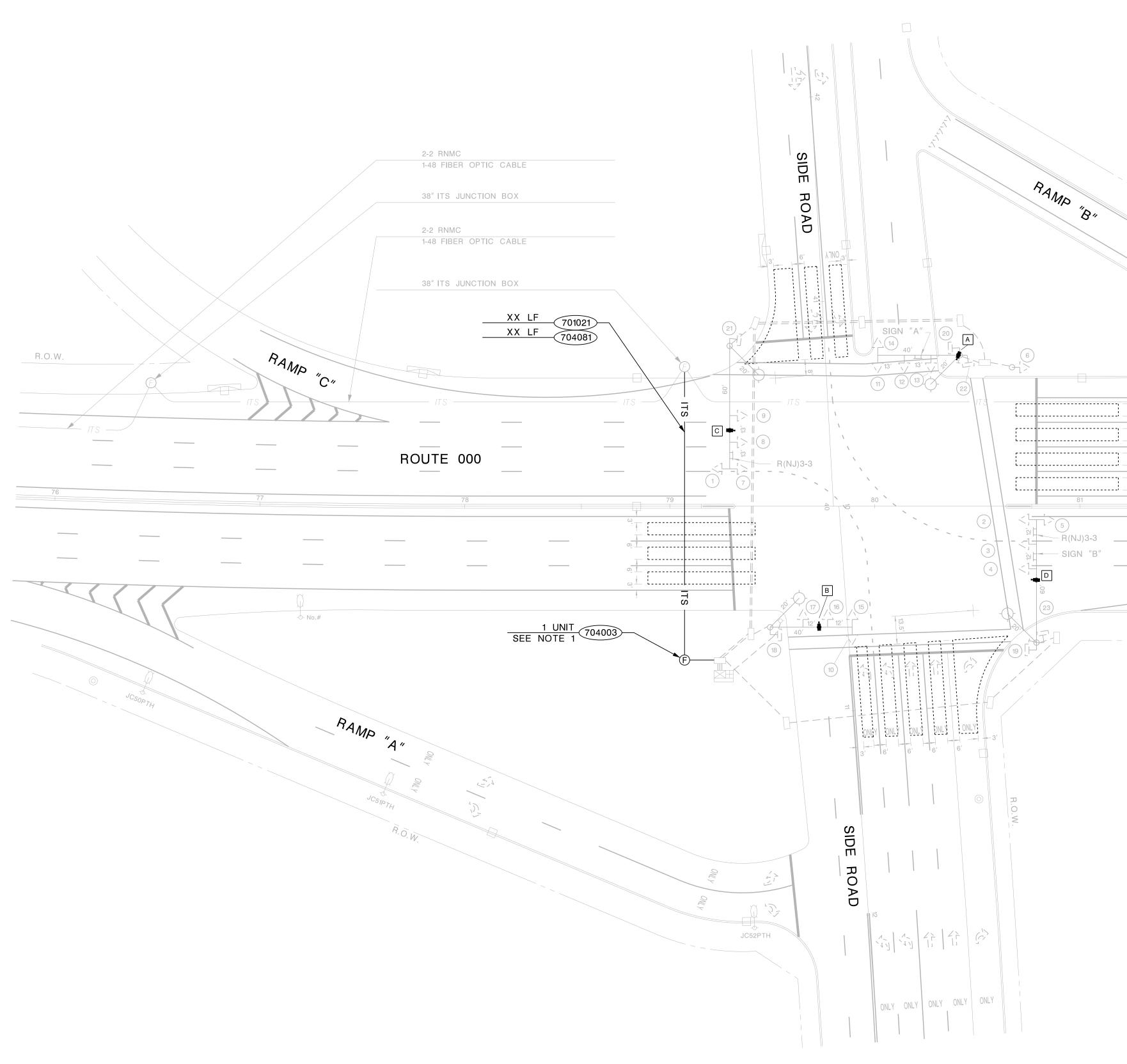


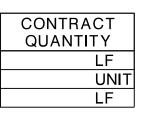
CABINET LAYOUT	LAT	LONG
CONTROLLER MODIFICATIONS, CTSS TYPE *	*	*
	<u>.</u>	

				STATE	FEDERAL I	PROJECT NO.
				N.J.		*
OLLER UNIT		1			CH PANEL	
					⁻ PANEL SE R SEE NOT	
]◀ ┼┼	<u> </u>				
				PTIC MO T MONIT	· · ·	
		-	ETHERNE	ET SWITC	ЭН	
			IMAGE D	ETECTIO	N ACCESS	PANEL
PDU				ETECTIO	N INTERFAC	ЭЕ
NAL BLOCK			PANEL SYSTEM	DETECT	ION	
DETECTOR PANEL			INTERFA	CE PANE	L	
		<u> </u>	BACK P	ANEL		
			LOAD S	WITCH B	AY	
INET SKIRT -		-	- POWER	SUPPLY		
	\backslash					
			PoE INJE	ECTOR		
CONDUIT (TYP)		*	BATTER	γ ΒΑСΚυ	P (TYP.)	
ZE & QUANTITY MAY VARY)			(SIZE AN MAY VA			
				,		
PROPOSED TS						
CABINET LAYO SEE TABLE 1						
SEE NOTE 1						
NOTE TO DESIGNER:						
COORDINATE WITH NJDOT DIVISION OF MOBIL ENGINEERING REGARDING THE NEED FOR BA SKIRTS, AND EXTERNAL GENERATOR HOOKUPS	TTERY BACKU		NET			
	<u>NOTES:</u> 1. INDIVIDUAL					
	2. FIELD VEF					VANI.
	3. REMOVE E AND RETU			NT NO L	ONGER IN S	SERVICE
	4. IF NECESS	SARY, REA	ARRANGE			MENT TO
	5. THE INDIC	ATED EG		IS ONLY	REQUIRED	FOR
	EXTERNAL	. HARDW	ARE BASE		SYSTEMS.]
	NOTE TO			DWARF F	ROM LAYOU	IT AND
					OFTWARE B	
	6. INSTALL L					SOFTWARE
	FOR A SC	JEIWARE	E BASED	CISS SY	STEM.	
						E-7 E-7
	NEW JE	RSEY I	DEPART	MENT C	OF TRANS	PORTATION
		· 22'			LAYO	UT
		55 (-	NE I	-	
				DUTE*		
	4	С	CONTR	АСТ	NO. *	
SAMPLE PLAN	INDIVIDUAL, FIF					
•	CERTIFICATE	OF AUTHOR	RIZATION NO.	*		
CTSS CABINET LAYOUT	NAME*					— (*)
	NEW JERSEY	PROFESSIO	ONAL ENGINE	ER LICENSE	NO. *	-

FIRM NAME	AME		
MODEL	MODELNAME	PROJECT #	PROJECTNAME
USERNAME USERNAME	USERNAME	PROJECT NAME	PROJECTDESCR
PLOT DATE DATE	DATE TIME	PLOTDRIVER	PLOTDRIVERABBREV
DWG. NAME	DWG. NAME CTSS SAMPLE PLAN - ORIGINAL SHEET		

ITEM NO.	TO BE CONSTRUCTED	
701021P	3" RIGID METALLIC CONDUIT	
704003M	JUNCTION BOX ITS TYPE A	
704081P	FIBER OPTIC CABLE TYPE F	

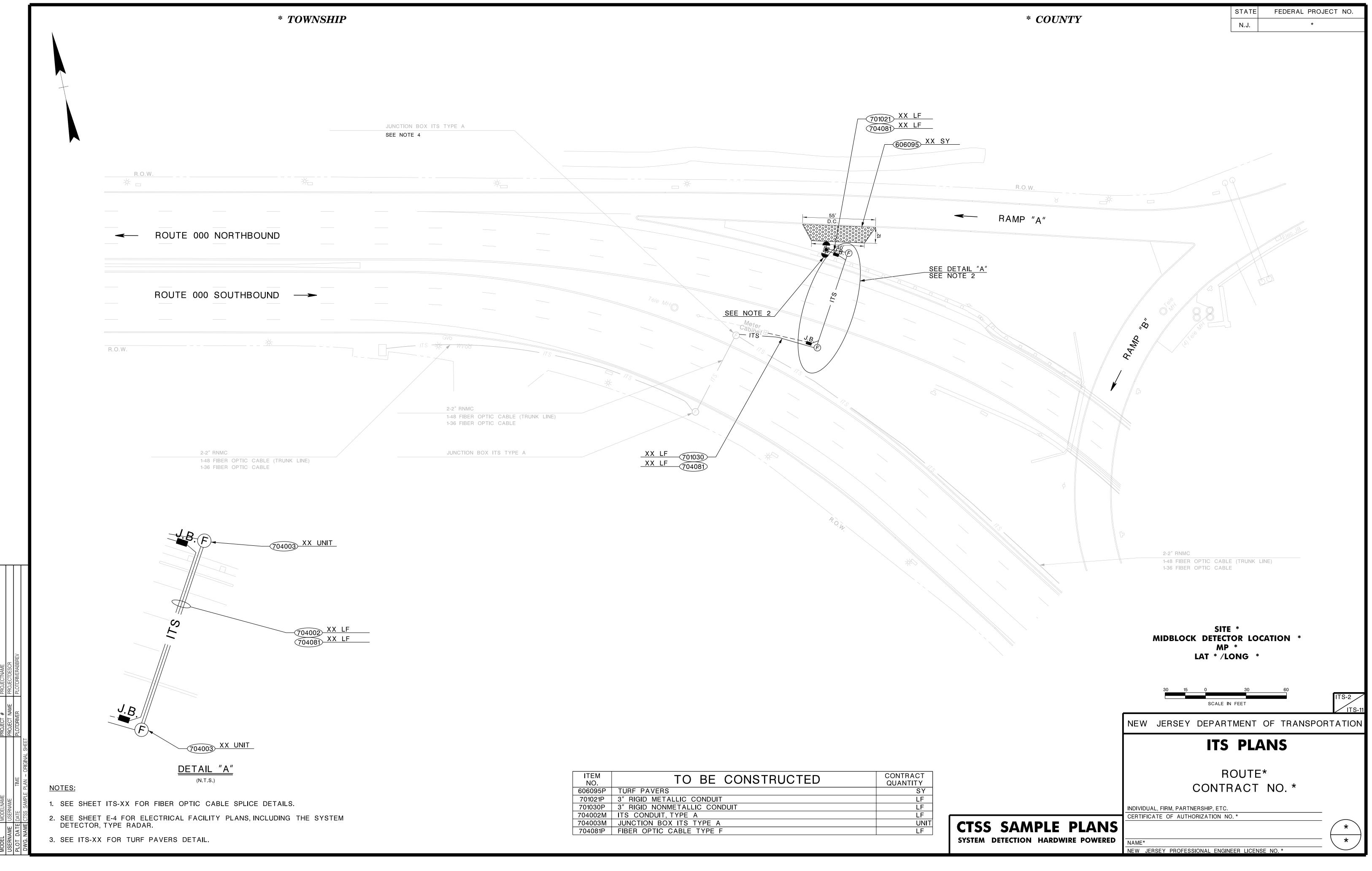




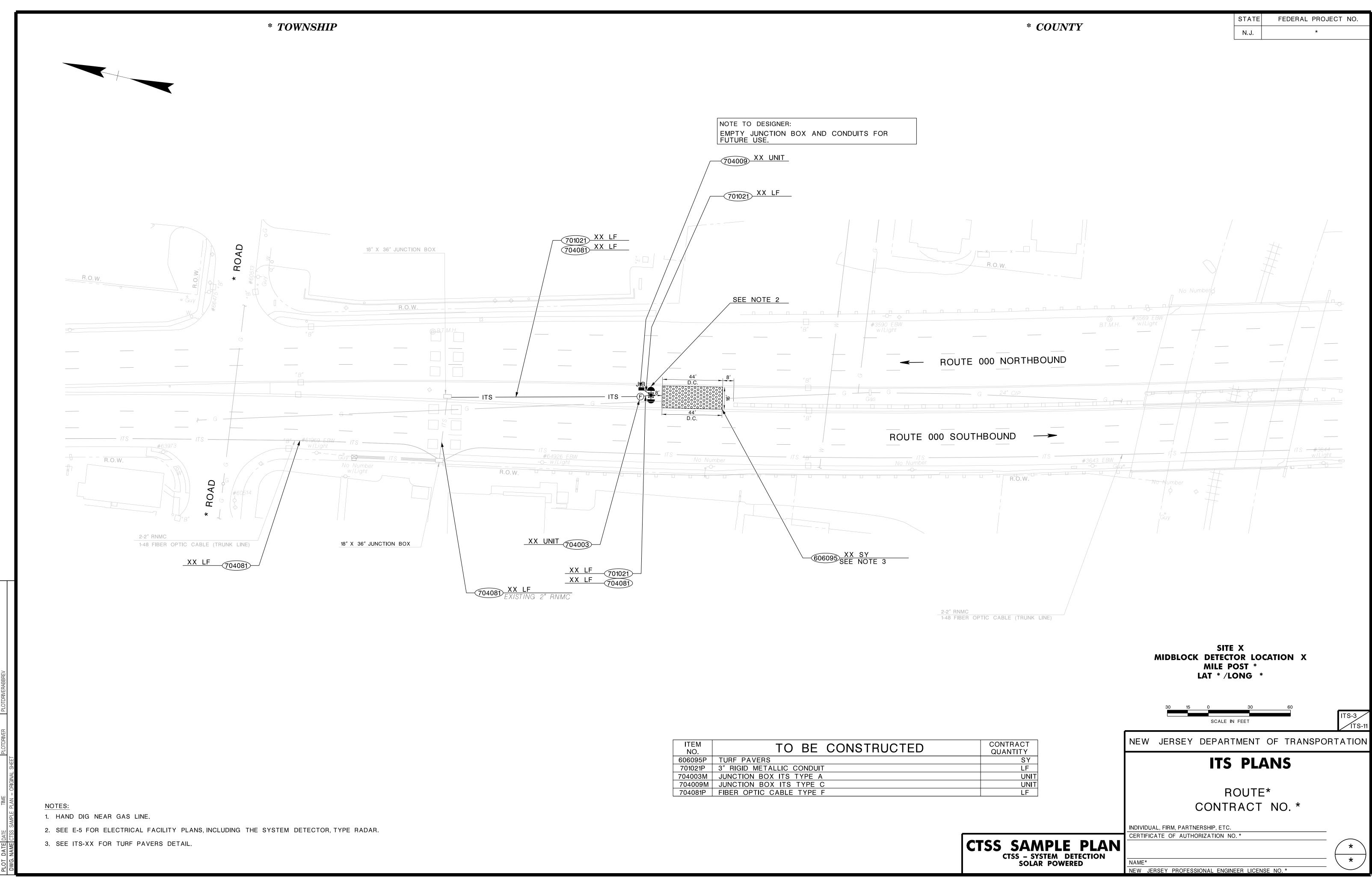
NOTE:

1. SEE E-2 FOR ELECTRICAL PLAN FIBER INSTALLATION TO CONTROLLER CABINET.

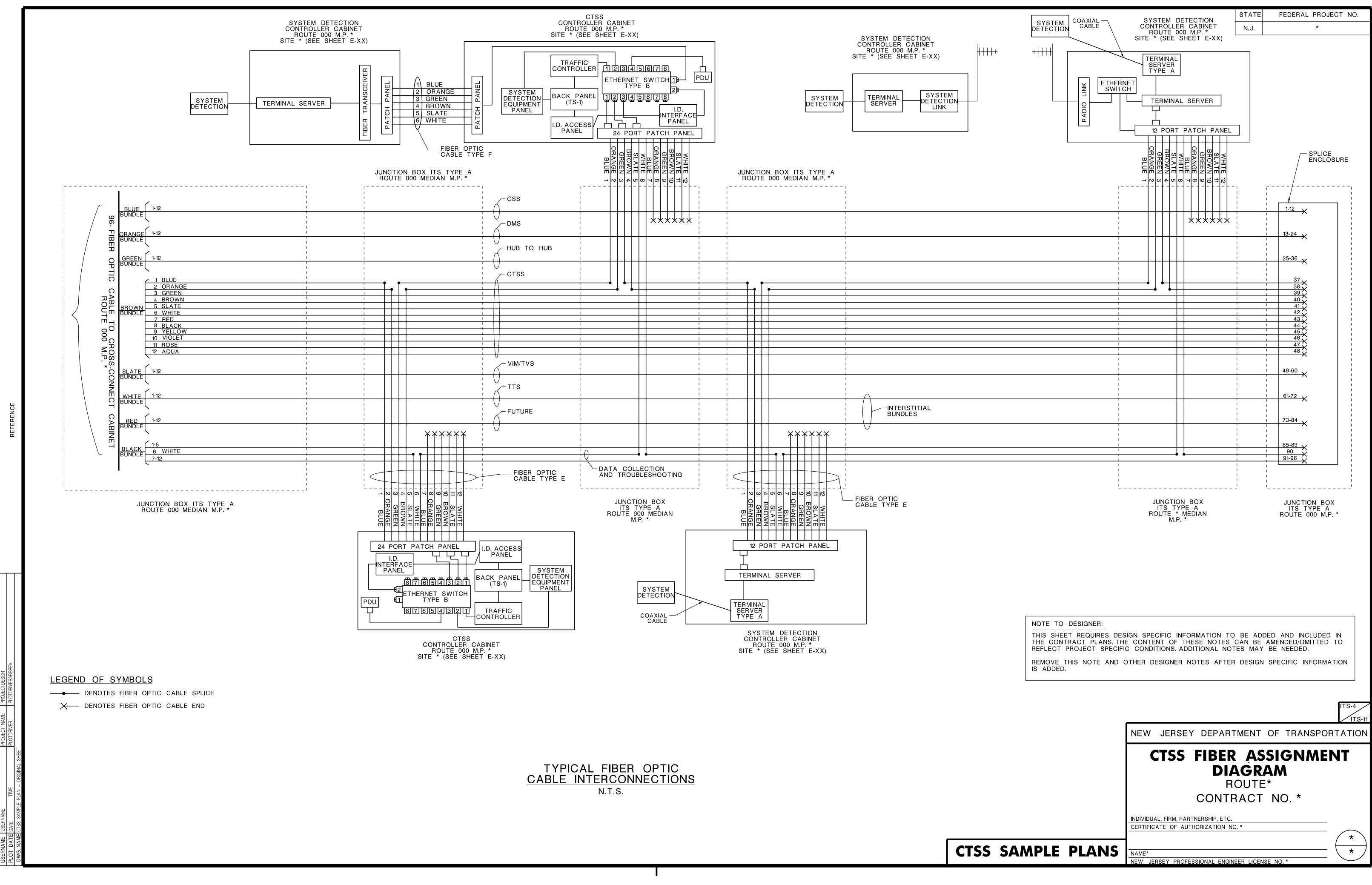
			OTATE			
* COUNTY			STATE N.J.	FEDERAL	*	טאו.
1						
Ro						
R.O.W.						
	~					
Time ITS						
<u>۵</u> <u>۵</u> ω						
82						
ROUTE 000						
R.O.W.						
	30	15 0	30	60		
		SCALE IN			Γ	TS-1
	NEW JERSE	EY DEPART	MENT	OF TRANS	I ∠ SPORTA	TION
		115	PL/	AIN S		
		R	OUTE	*		
		CONTF				
	_INDIVIDUAL, FIRM, PA	ARTNERSHIP, ETC.				
CTSS SAMPLE PLAN	CERTIFICATE OF AU). *		_	*
CTSS – Fiber Optic Communication	NAME*				(*
	NEW JERSEY PROF	FESSIONAL ENGIN	EER LICENS	SE NO. *	\	

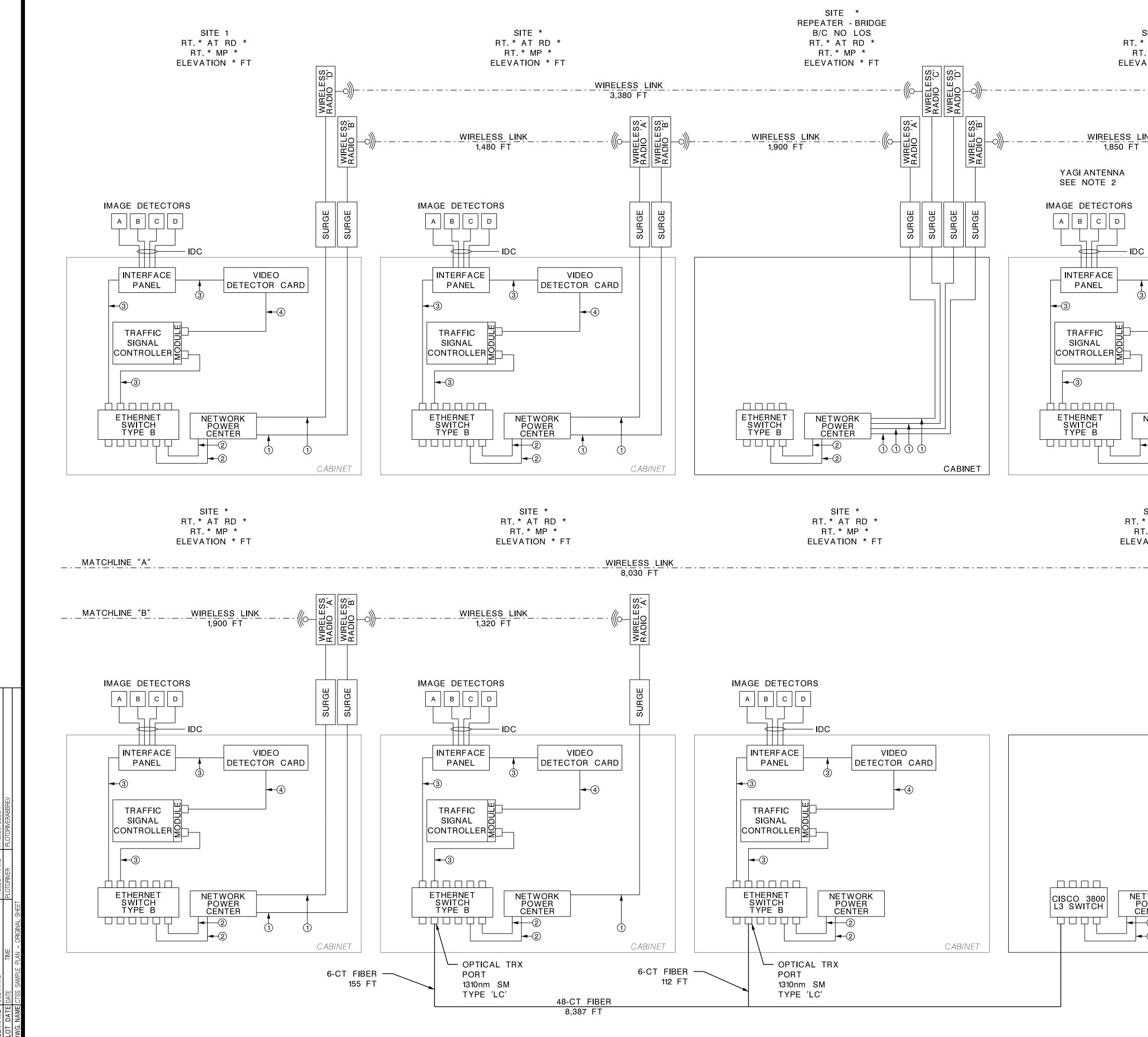


ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
606095P	TURF PAVERS	SY
701021P	3" RIGID METALLIC CONDUIT	LF
701030P	3" RIGID NONMETALLIC CONDUIT	LF
704002M	ITS CONDUIT, TYPE A	LF
704003M	JUNCTION BOX ITS TYPE A	UNIT
704081P	FIBER OPTIC CABLE TYPE F	LF



ITEM NO.	TO BE CONSTRUCTED
606095P	TURF PAVERS
701021P	3" RIGID METALLIC CONDUIT
704003M	JUNCTION BOX ITS TYPE A
704009M	JUNCTION BOX ITS TYPE C
704081P	FIBER OPTIC CABLE TYPE F





 AME
 AME

 MODELNAME
 PROJECT #

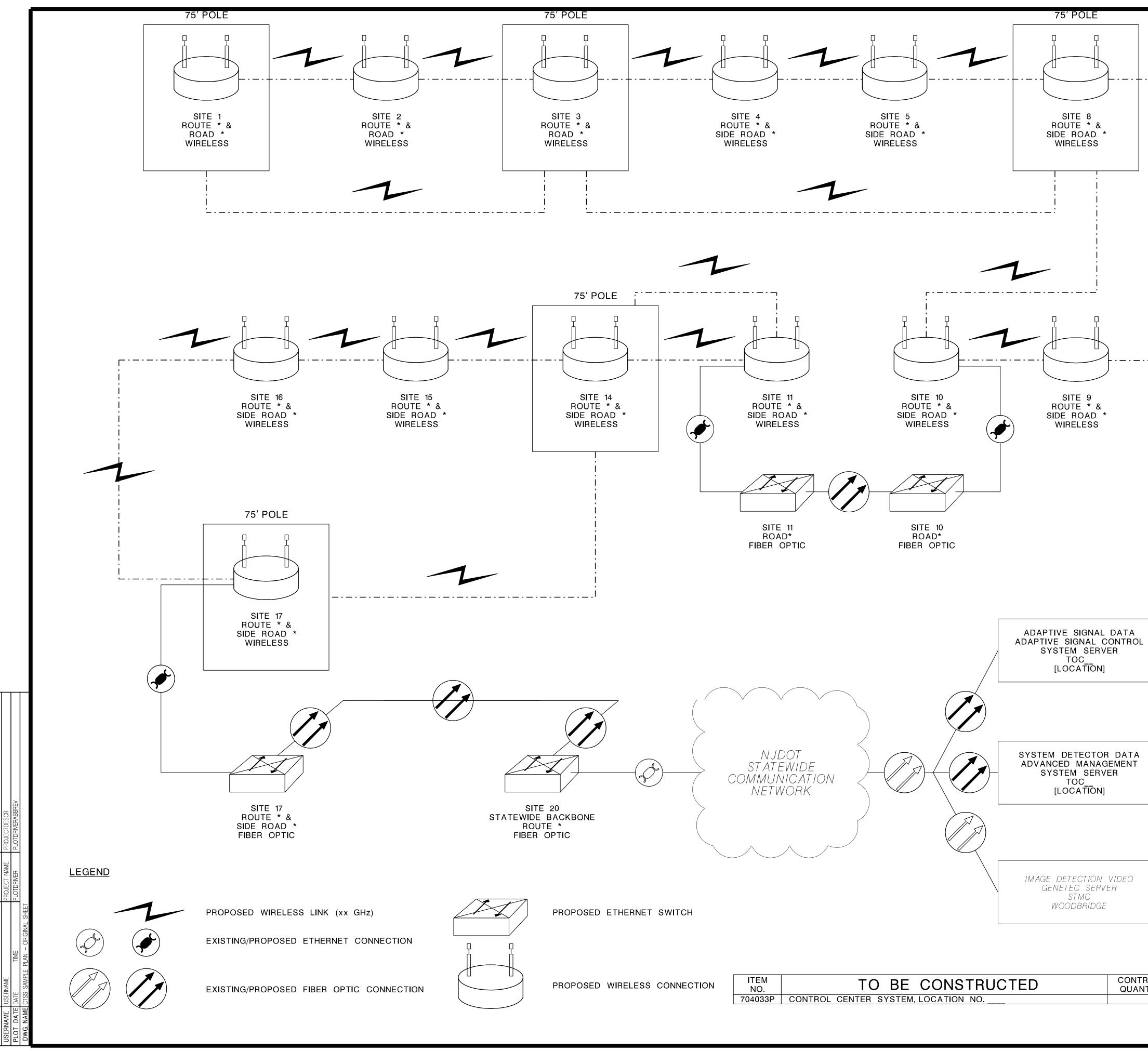
 USERNAME
 PROJECT NAME

 DATE
 TIME

 PLOTDRIVER
 PLOTDRIVER

FIRM N EL

	1	or	
	-	STATE FEDERAL PROJ N.J. *	ECT NO.
SITE * AT RD *	L		
* MP * ATION * FT			
	IE "A"		
	NE "B"		
SURGE SURGE			
VIDEO DETECTOR CARD			
	<u>E SCHEDULE:</u>		
	T 6 JUMPER OUTDOOR RATE T 6 JUMPER INDOOR RATED		
3. CA	T 6 JUMPER		
4. SD	LC JUMPER		
POWER CENTER	LEVATIONS GIVEN AT SITE L	OCATIONS ARE	
CABINET A T	PPROXIMATE GROUND LEVEL O THE FOUNDATIONS.	ELEVATION ADJACENT	
2. T	HE TYPES AND QUANTITIES (I THE CABLE SCHEDULE MAY ANUFACTURERS' RECOMMENDA	UF CABLES DEPICTED VARY. REFER TO ATIONS.	
SITE * 3. R	EFER TO FIBER ASSIGNMENT S-XX.		
ATRD ^ . * MP * ATION * FT			
SURGE			
δ			
		C	ITS-5
			ITS-11
WORK		MENT OF TRANSPOR	TATION
-⊘ ① -② HUB		GRAM DUTE*	
		ACT NO. *	
	INDIVIDUAL, FIRM, PARTNERSHIP, ETC.	*	
	CERTIFICATE OF AUTHORIZATION NO.		*
CTSS SAMPLE PLANS	NAME* NEW JERSEY PROFESSIONAL ENGINE	ER LICENSE NO. *	*

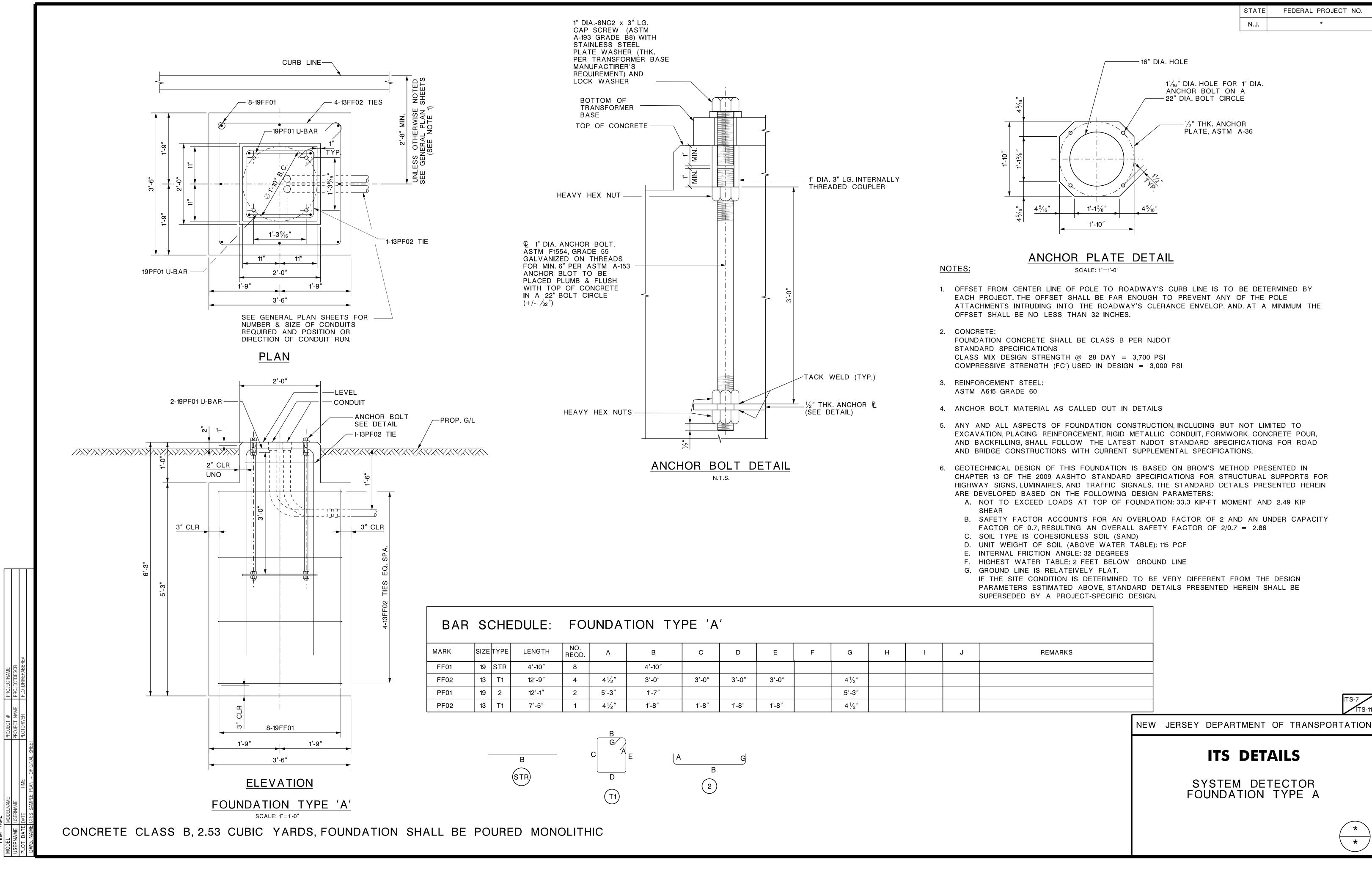


 M NAME
 MODELNAME
 PROJECT #
 PROJECTNAME

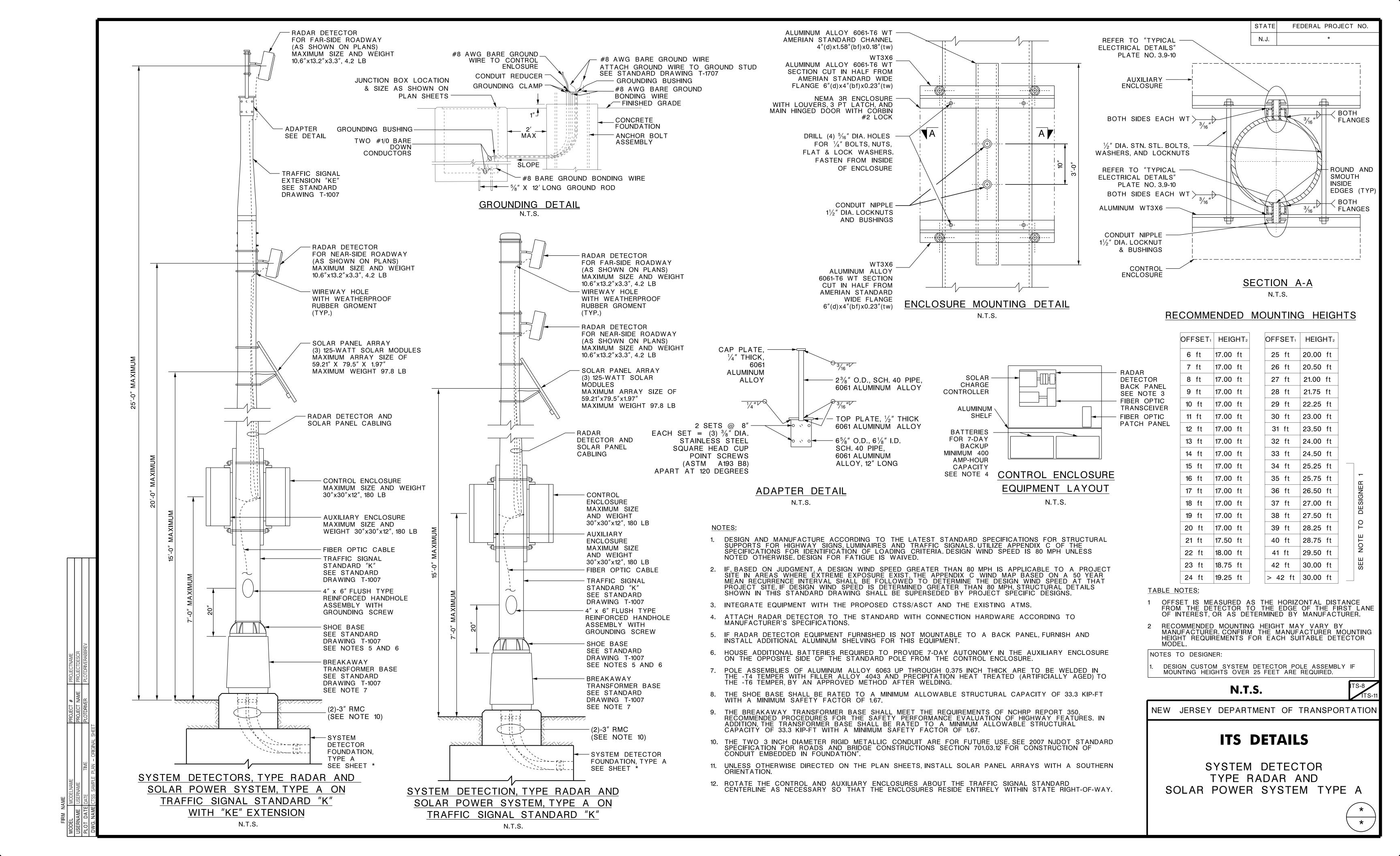
 ME
 USERNAME
 PROJECT NAME
 PROJECT NAME

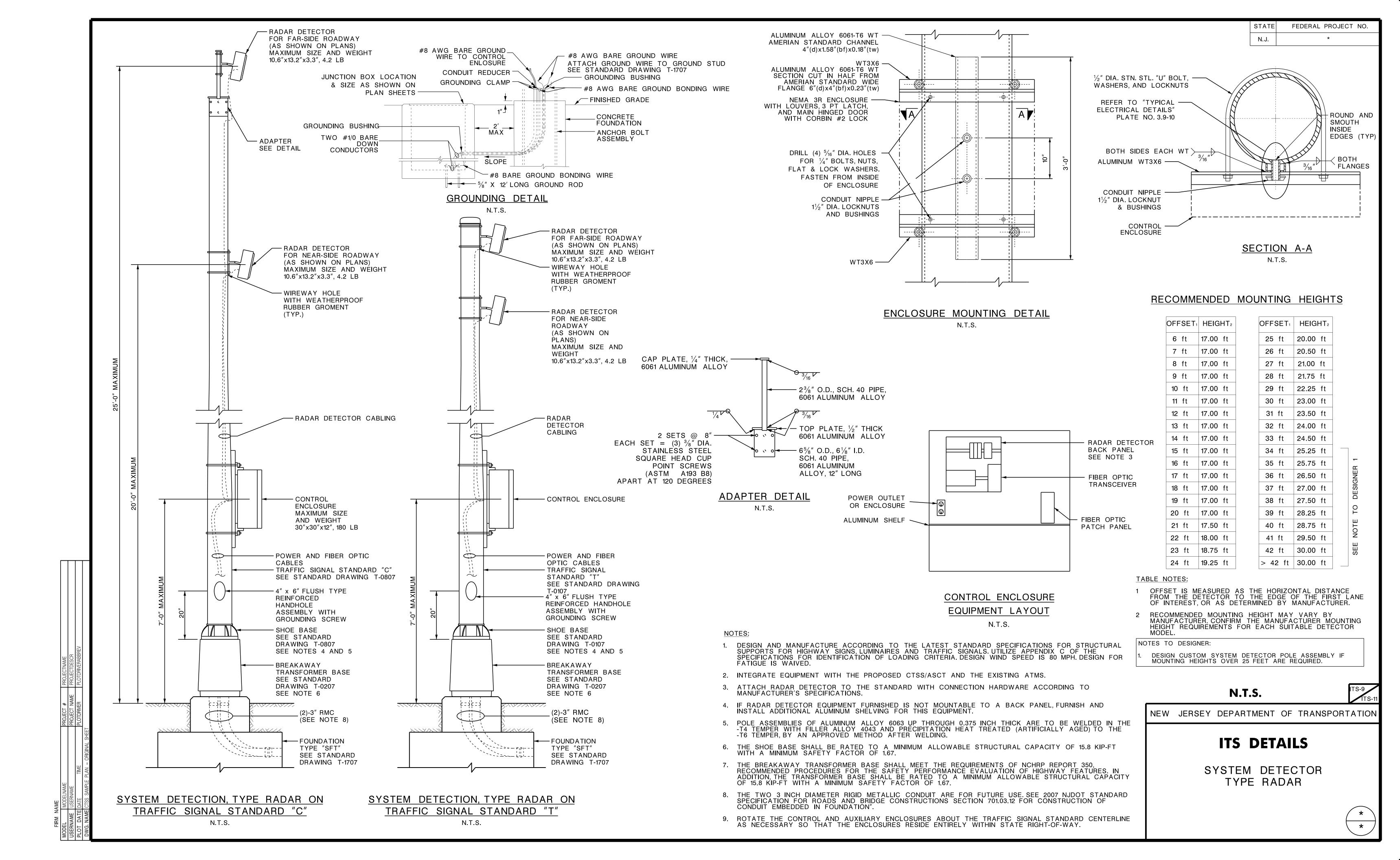
 ATE
 DATE
 TIME
 PLOTDRIVER

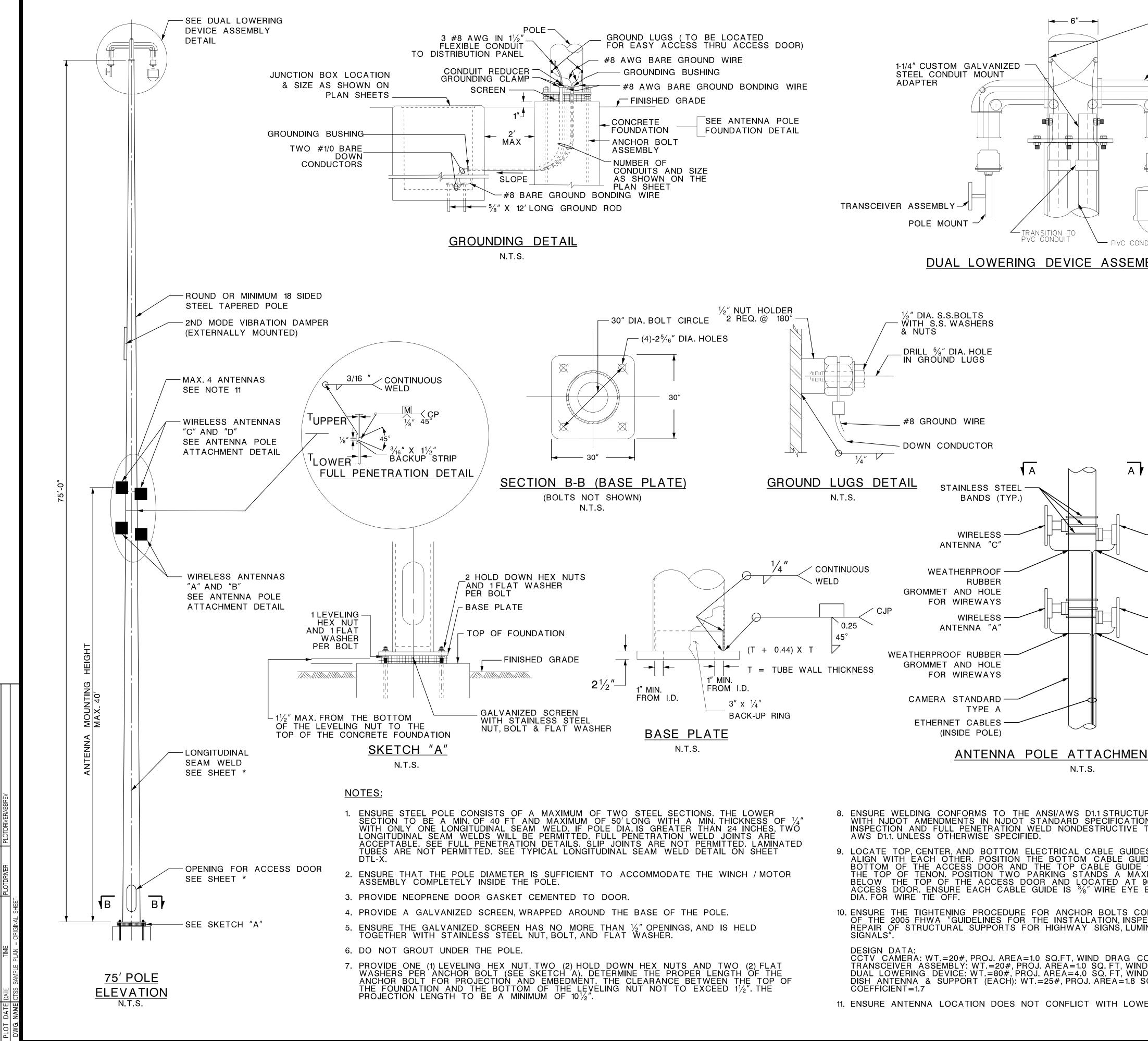
						STATE	FEDERA	L PROJECT	NO.
						N.J.		*	
	-								
		! لــ - ـ							
_									
	_								
				<u>NOTE:</u>					
				1. SEE	SHEET ITS-X	X FOR	ANTENNA	DETAILS.	
								_	
					N.T.	.S.		ſ	ITS-6 ITS-11
				NEW JERSE	EY DEPAR	FMENT	OF TRA	NSPORT	
					SYSTE				
					DIA				
						OUTE			
					CONT	RACT	NO. *		
RA NTI	ΤΥ			INDIVIDUAL, FIRM, PA		→ +			
	LS			CERTIFICATE OF AU	UTHUKIZATION N	J. ^		(*
	CTSS	SAMPLE	PLANS	NAME*					*
				NEW JERSEY PRO	LESSIONAL ENGIN	ICEK LICEN	ISE NU. "		



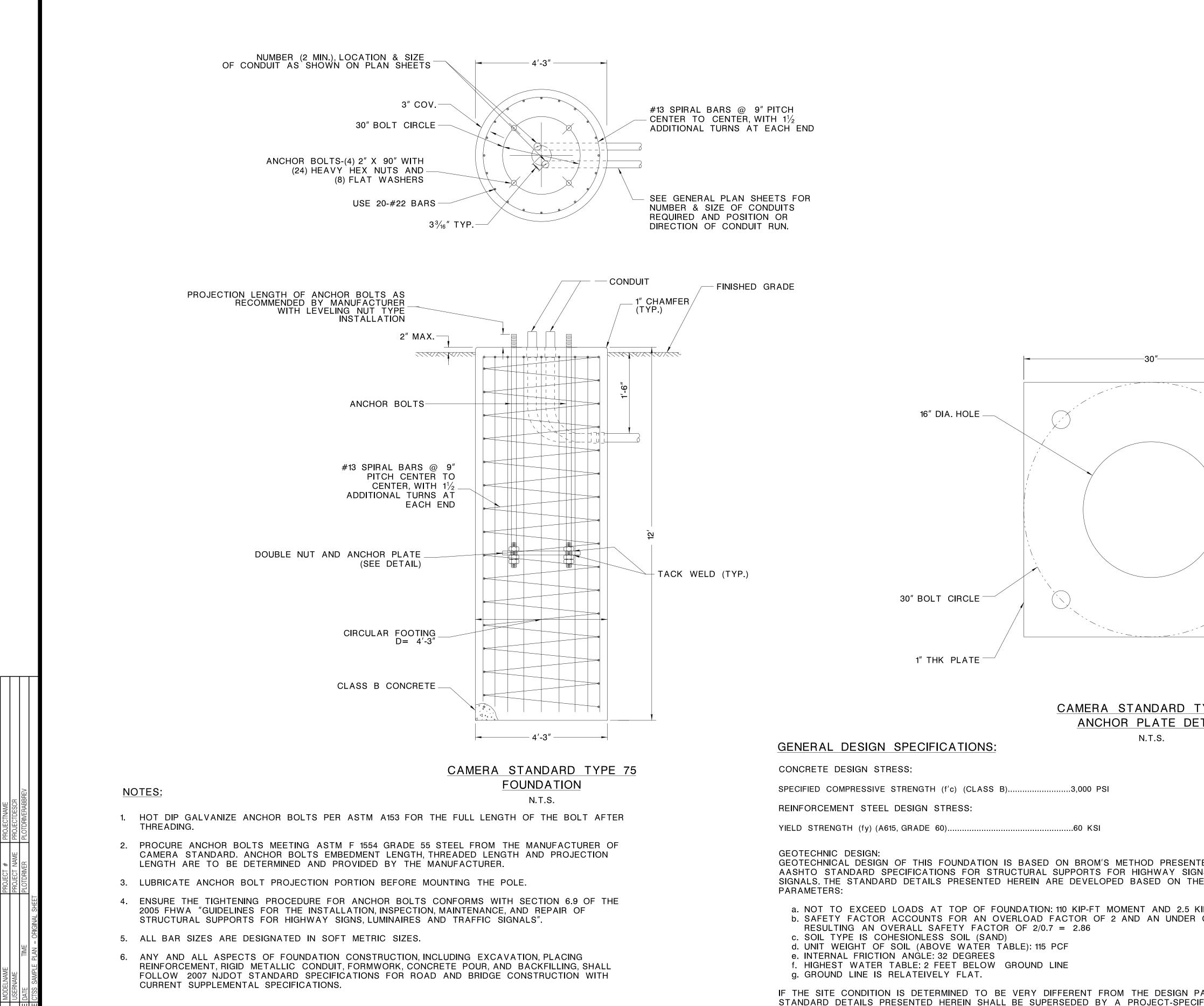
ARK	SIZE	ТҮРЕ	LENGTH	NO. REQD.	А	В	С	D	Е	F	G	Н	I	
FF01	19	STR	4'-10"	8		4'-10"								
FF02	13	T1	12'-9″	4	4 ½ ″	3'-0"	3'-0″	3'-0"	3'-0″		4 ½″			
PF01	19	2	12'-1″	2	5'-3"	1'-7″					5′-3″			
PF02	13	T1	7'-5″	1	4 ½ ″	1'-8″	1′-8″	1′-8″	1′-8″		4 ½″			







TENON CABLE			STATE N.J.	FEDERAL PROJECT NO.
HOT DIPPED G	AL. STEEL MAST ARM VER. VIDEO			
	CATIONS			
CABLE GUIDE PULLEY (TYP.)				
PERMANENT DI				
	NECT UNIT COVER,			
CONNECTORS CONTROL CAB	LE			
CAMERA JUNC PROVIDED WIT STEEL QUICK I	H STAINLESS DISCONNECT			
WEATHER DOM	IE			
NDUIT CAMERA HOUS				
<u>IBLY DETAIL</u>				
	DESIGN SPECIFICA	TIONS		
	UTILIZE LATEST AA STRUCTURAL SUPPO	<u>FIONS.</u> SHTO STANDARD SF NT FOR HIGHWAY S VITH THE LATEST IN	PECIFICATIONS FO	OR S AND
	DESIGN WIND VELO	CITY 80 M.P.H. 3 P.S.F.		
	FATIQUE CATEGORY DESIGN LIFE ENSURE ALL LOADS	50 YEARS APPLIED TO ALL M	MEMBERS HAVE E	BEEN
	TAKEN INTO ACCOU WELDED STRUCTUR	JNT FOR STRENGTH AL DETAILS HAVE B THE DESIGN ANALYS NENTS LIKE ACCESS BASE PLATE, POLE-TO	DESIGN, AND AL EEN ANALYZED	L
	WINCH ASSEMBLY, E ANCHOR BOLTS EM	BASE PLATE, POLE-TO BEDMENT, ETC., MUST	D-BASE CONNECT ALSO BE CONS	ION, SIDERED.
L	ENSURE MAXIMUM H THE POLE COMPLET AND ALL FIXTURES FROM THE CENTER	IORIZONTAL DEFLEC ELY ASSEMBLED WI ATTACHED DOES N LINE DUE TO A 4	TION AT THE TC ITH CCTV CAME OT EXCEED 2 IN 0 MPH (GUST FA	POF AA CHES CTOR 13)
Ţ	WIND SPEED (APPE)	NDIX C WIND PRESS	URE FORMULA)	
	OUDINI DETAIL PLA POLES WITH CAMER CHECKS SHOW CA AND EFFECTIVE PRO	NS AND DESIGN CA RA SHOWING STRE MERA ASSEMBLY W OJECTED AREA (EP/	LOULATIONS OF NGTH, FATIGUE A EIGHT, INCLUDING A). ENSURE THE	CAMERA STANDARD ND DEFLECTION LOWERING DEVICE DESIGN CALCULATIONS Y A
WIRELESS ANTENNA "D"	AND WORKING DRA PROFESSIONAL ENG MATERIALS:	WINGS ARE SIGNED INEER.	AND SEALED BY	Y A
		MATERIAL CONFORM 95,GRADE A (MIN. YIE	S TO ASTM LD POINT 55 KS	I) OR GRADE B
RUBBER GROMMET AND HOLE FOR WIREWAYS	B (MIN. YIELD POINT TWO SEGMENTS MU (18 SIDED MIN.) AND	35 KSI) THE POLE JST BE THE SAME N TENON MAY_BE FO	TAPER TO BE 0 ATERIAL AS AN RMED FROM STE	I) OR GRADE B TO ASTM A53, GRADE 14 IN./FT. MAX. ALTERNATE THE POLE EEL CONFORMING TO
WIRELESS				CONFORMS TO ASTM E 50. ENSURE ALL TEEL PLATES GREATER TS FOR NOTCH H UNITS OF THE
				H UNITS OF THE
RUBBER GROMMET AND HOLE	THE MANUFACTURE	R. ,		
FOR WIREWAYS	F1554, GRADE 55. GA PER ASTM A153, CL FULL LENGTH OF TI	OLT MATERIALS CON LVANIZE THE ANCHO ASS C AFTER THRE HE BOLT, AS WELL A	DR BOLTS ADING FOR THE AS NUTS AND W	ASHERS.
	HIGH STRENGTH BO ASTM A153 CLASS	LTS, NUTS AND WAS C.	SHERS TO BE G	ALVANIZED PER
NT DETAIL	PROVIDE STAINLESS NUTS AND WASHER A320, GRADE B8, CL/ HARDENED. ALTERN	STEEL FASTENERS S) CONFORMING TO ASS 2 (AISI TYPE 304 ATE MATERIALS PRO	(INCLUDING BOL CURRENT ASTM) AND STRAIN POSED TO BF I	TS, JSED FOR FASTNERS SSION OF WORKING
	DRAWINGS.			SSION OF WORKING
URAL WELDING CODE-STEEL	NJDOT STANDARD	BE "CLASS B" AS E SPECIFICATIONS.	LI INCO IN THE	
ONS. ENSURE WELDING TESTING CONFORM TO				. <u></u>
ES WITHIN THE POLE AND IDE 2 INCHES BELOW THE 1 INCH DIRECTLY BELOW			N.T.S.	ITS-10 ITS-11
XIMUM OF 2 ³ /4" INCHES 90° AND 270° FROM THE BOLT HAVING 1" INTERNAL		NEW JERSEY D	DEPARTMENT (OF TRANSPORTATION
ONFORMS WITH SECTION 6. PECTION, MAINTENANCE AND	9		ITS DETA	AILS
/INARIES AND TRAFFIC			-	
COEFFICIENT=1.2 ID DRAG COEFFICIENT=1.7 ID DRAG COEFFICIENT=1.45			NTENNA F	ULE
SQ.FT, WIND DRAG VERING DEVICES.				\frown
				$\begin{pmatrix} \star \\ \star \end{pmatrix}$



			STATE	FEDERAL PRO	ECT NO.
			N.J.	*	
30"					
$2\frac{1}{8}$ " DIA. BOLT HOLES					
YPE 75 TAIL					
		N.1			ITS-11 ITS-11
ED IN CHAPTER 13 OF THE 2009 NS, LUMINAIRES, AND TRAFFIC E FOLLOWING DESIGN	NEW JE	ERSEY DEPAR	TMENT (F TRANSPO	
E FOLLOWING DESIGN					
IP SHEAR CAPACITY FACTOR OF 0.7,		ITS	DETA	ILS	
		· · ·			
		ANTEI FOUNDA1	NNA P TON D	ULE ETAILS	
ARAMETERS ESTIMATED ABOVE, FIC DESIGN.					*
					(<u>*</u>)