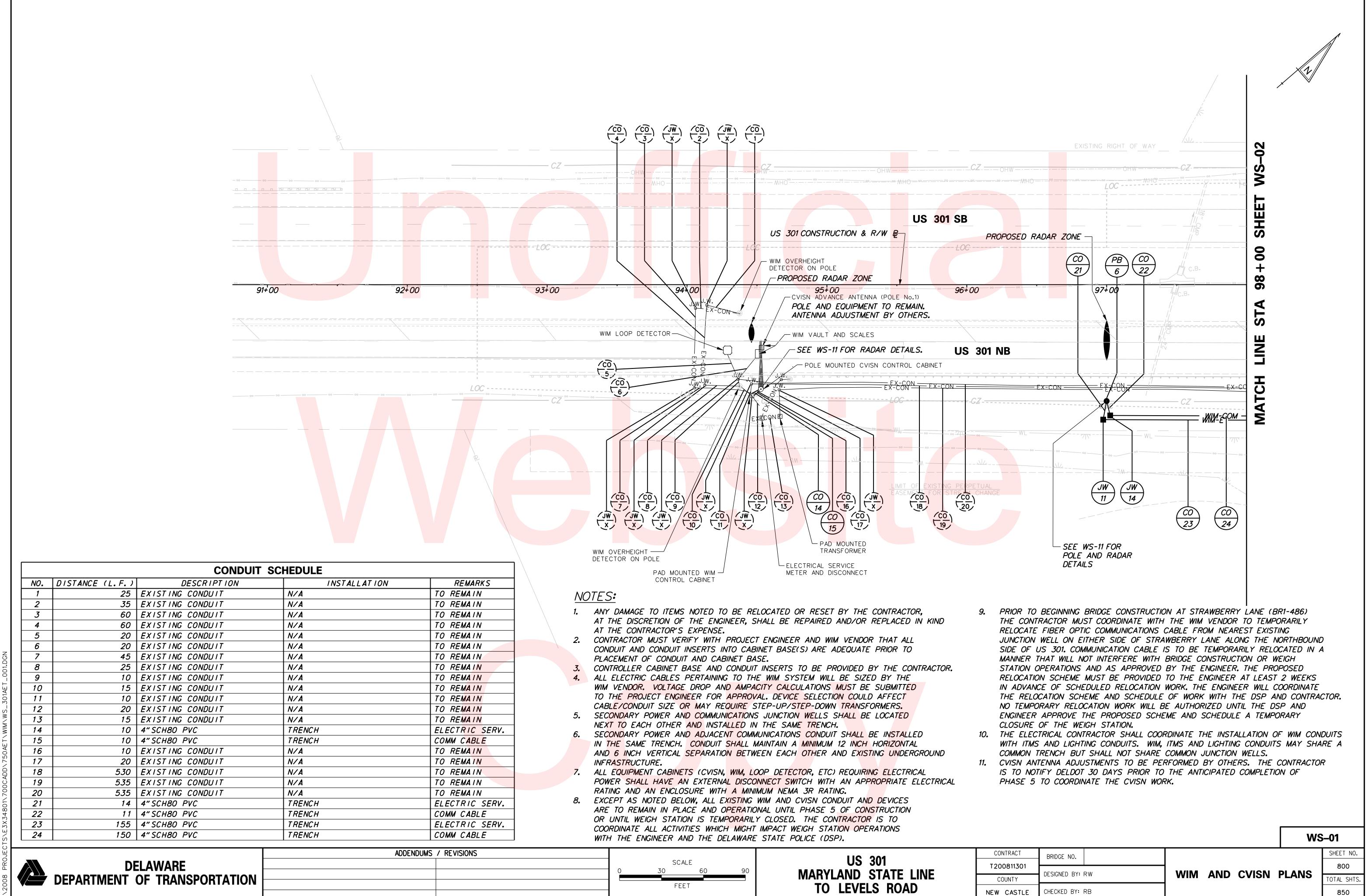
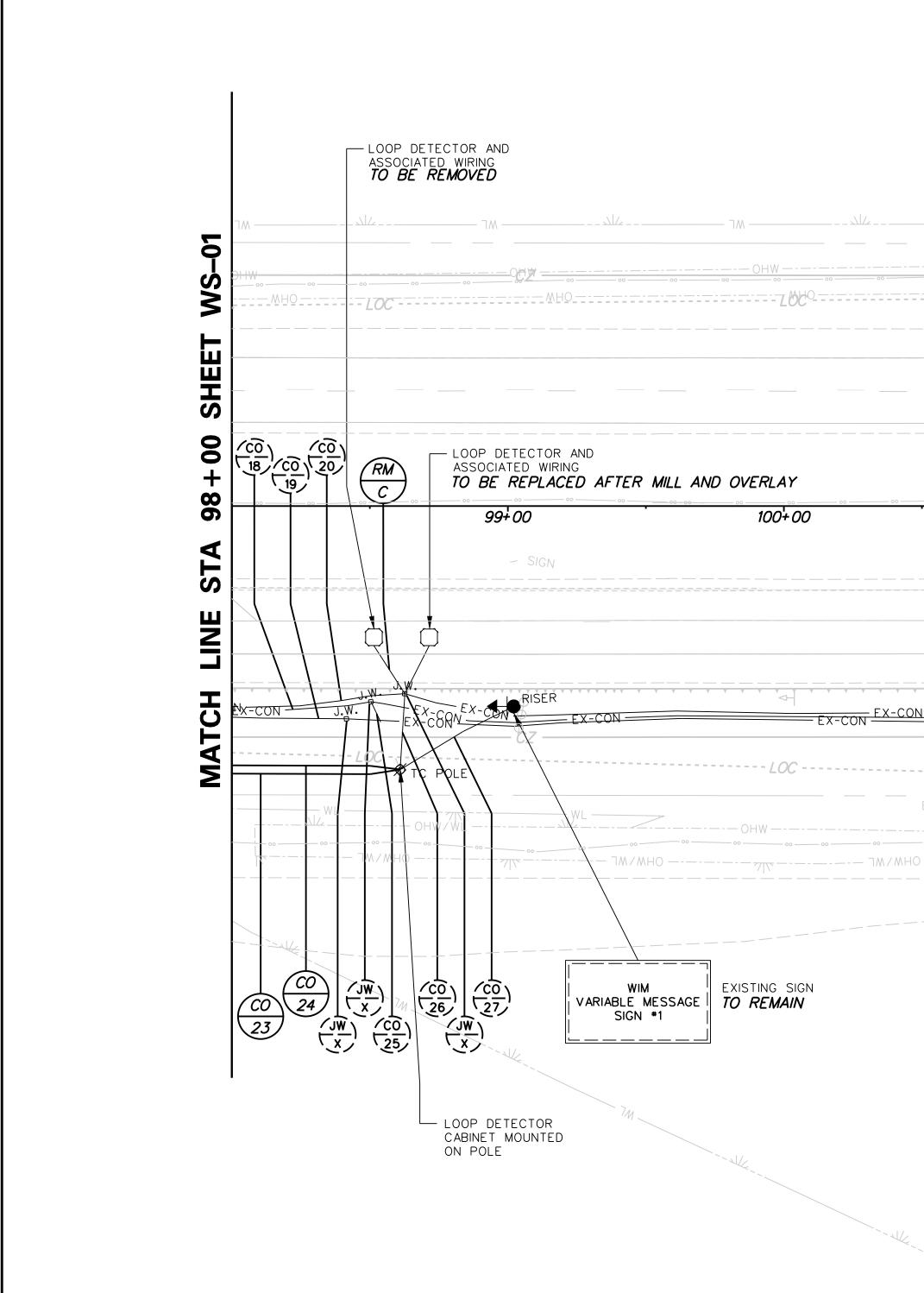


NO.	DISTANCE (L.F.)	DESCRIPTION	INSTALLATION	REMAR
1	25	EXISTING CONDUIT	N/A	TO REMAII
2	35	EXISTING CONDUIT	N/A	TO REMAIL
3	60	EXISTING CONDUIT	N/A	TO REMAIL
4	60	EXISTING CONDUIT	N/A	TO REMAIN
5	20	EXISTING CONDUIT	N/A	TO REMAIN
6	20	EXISTING CONDUIT	N/A	TO REMAIN
7	45	EXISTING CONDUIT	N/A	TO REMAIN
8	25	EXISTING CONDUIT	N/A	TO REMAI
9	10	EXISTING CONDUIT	N/A	TO REMAI
10	15	EXISTING CONDUIT	N/A	TO REM <mark>AII</mark>
11	10	EXISTING CONDUIT	N/A	TO REMAI
12	20	EXISTING CONDUIT	N/A	TO REMAI
13	15	EXISTING CONDUIT	N/A	TO REMAI
14	10	4" SCH80 PVC	TRENCH	ELECTRIC
15	10	4" SCH80 PVC	TRENCH	COMM CAB
16	10	EXISTING CONDUIT	N/A	TO REMAII
17	20	EXISTING CONDUIT	N/A	TO REMAT
18	530	EXISTING CONDUIT	N/A	TO REMAIN
19	535	EXISTING CONDUIT	N/A	TO REMAIN
20	535	EXISTING CONDUIT	N/A	TO REMAIN
21	14	4" SCH80 PVC	TRENCH	ELECTRIC
22	11	4" SCH80 PVC	TRENCH	COMM CAB
23	155	4" SCH80 PVC	TRENCH	ELECTRIC
24	150	4" SCH80 PVC	TRENCH	COMM CABL





G	
$\Box$	
Ň	
ö	
õ	
- I	
$\vdash$	
ЧE	
-	
0	
° ⊓	
Ś	
$\geq$	
>	
Ś	
۸I	
Ş	
ŕ	
ш	
$\triangleleft$	
0	
Ū.	
$\sum$	
á	
ă	
CAD	
õ	
00	
$\tilde{\sim}$	
/	
É	
80	
4	
Ň	
$\times$	
M	
Щ	
б	
Ĕ	
C	
Щ	
0	
Ř	
đ	
_	
$\sim$	

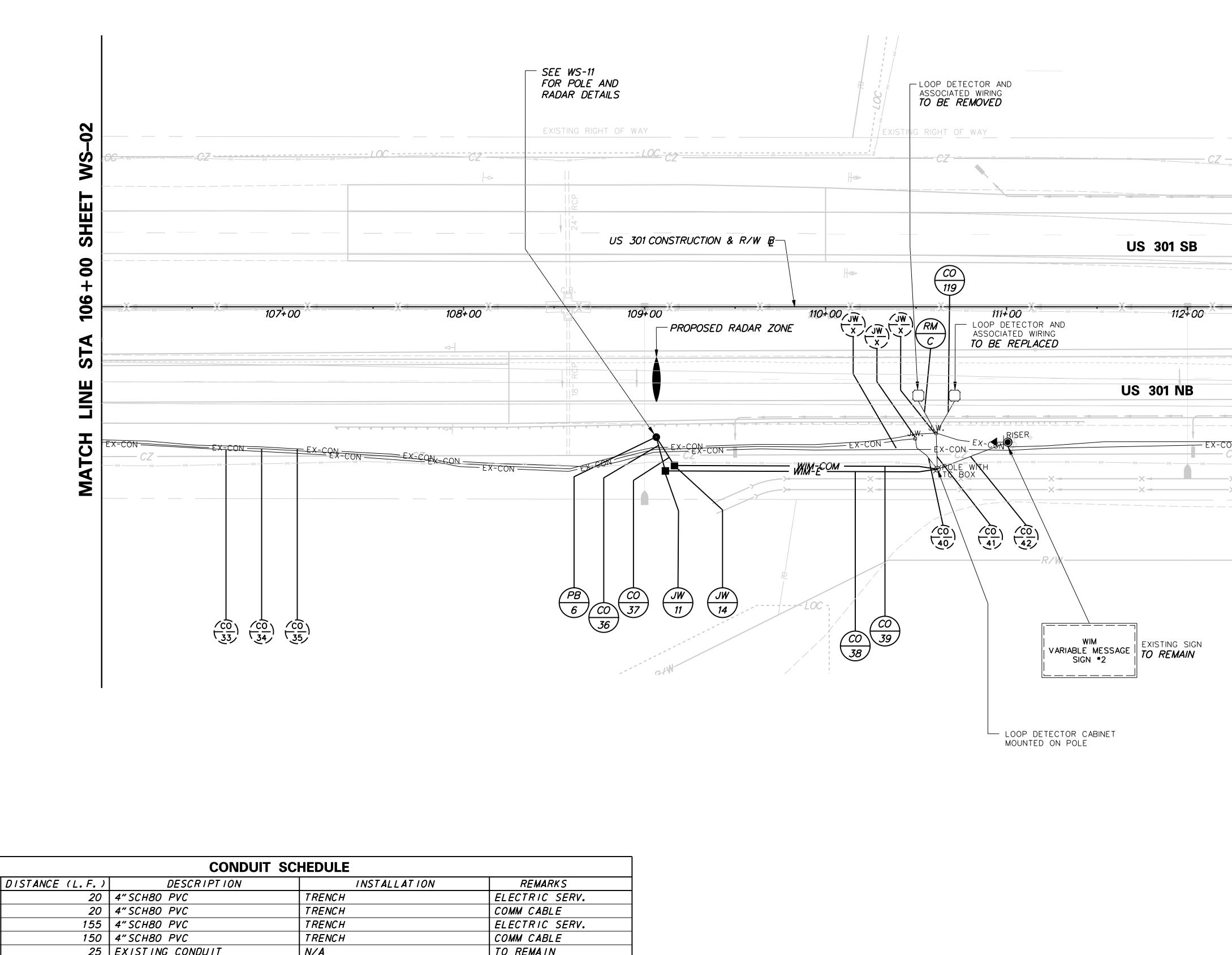
		CONDUIT	SCHEDULE	
NO.	DISTANCE (L.F.)	DESCRIPTION	INSTALLATION	REMARK
25	30	EXISTING CONDUIT	N/A	TO REMAIN
26	30	EXISTING CONDUIT	N/A	TO REMAIN
27	50	EXISTING CONDUIT	N/A	TO REMAIN
28	535	EXISTING CONDUIT	N/A	TO REMAIN
29	530	EXISTING CONDUIT	N/A	TO REMAIN
30	535	EXISTING CONDUIT	N/A	TO REMAIN
31	35	EXISTING CONDUIT	N/A	TO REMAIN
32	25	EXISTING CONDUIT	N/A	TO REMAIN
33	670	EXISTING CONDUIT	N/A	TO REMAIN
34	675	EXISTING CONDUIT	N/A	TO REMAIN
35	675	EXISTING CONDUIT	N/A	TO REMAIN
	•			) FNDUMS / REVISIONS



ADDENDUMS / REVISIONS

ЛМЛМЛМ ОНWОН ОНWОН МНQОС	W CZ MH0H0	1.M 	CVISN IN-CAB NOTIFICATION ANTENNA (POLE NO. 2 POLE AND EQUIPMENT TO REMAIN. ANTENNA ADJUSTMENT BY OTHERS.	2) <b>5)</b> <b>6)</b>	2
US 301 CONSTRUCTION & R/W B	US 301 SB			O SHE	
101+00	102+00	103+00 //C.B. //	0 ··· ··· ··· ··· ··· ··· ··· ··· ··· ·	radius 2000 - 20	
U	S 301 NB		24 " 24 "		
EX EQUEON	EX-CON EX EXONON	<u>J.W.</u> <u>J.W.</u> <u>J.W.</u> <u>EX-CON</u> <u>CZ</u> <u>//</u> //      	EX-CON EX-CON EX-CON		
EXISTING RIGHT OF WAY			EXISTING RIGHT OF	WAY	
XKS					
			CONTRACT BRIDGE NO.		WS-02 SHEET NO.
0 	SCALE 30 60 90 FEET	US 301 MARYLAND STATE LINE TO LEVELS ROAD	T200811301     DESIGNED BY: RW       COUNTY     DESIGNED BY: RW       NEW CASTLE     CHECKED BY: RB	WIM AND CVISN	801           TOTAL SHTS.           850

\_\_\_\_\_

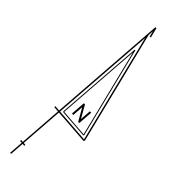


_003.DGN
_301AET
WIM/WS.
750AET
00CADD/
4801/7
TS/E3X3
PROJEC
ω

NO.	DISTANCE (L.F.)	DESCRIPTION	INSTALLATION	REMARI
36	20	4" SCH80 PVC	TRENCH	ELECTRIC
37	20	4" SCH80 PVC	TRENCH	COMM CABL
38	155	4" SCH80 PVC	TRENCH	ELECTRIC
39	150	4" SCH80 PVC	TRENCH	COMM CABL
40	25	EXISTING CONDUIT	N/A	TO REMAIN
41	25	EXISTING CONDUIT	N/A	TO REMAIN
119	5	2" GALVANIZED RIGID STEEL	TRENCH	LOOP CABL
42	45	EXISTING CONDUIT	N/A	TO REMAIN
43	430	EXISTING CONDUIT	N/A	TERMINATE
44	410	EXISTING CONDUIT	N/A	TERMINATE

43     430     EXISTING CONDUIT       44     410     EXISTING CONDUIT		RMINATE IN NEW JW. RMINATE IN NEW JW.			-	
	ADDENDUMS / R	REVISIONS	SCALE	US 301	CONTRACT	BRIDGE NO.
DELAWARE DEPARTMENT OF TRANSPORTATION			0 30 60 90	MARYLAND STATE LINE	T200811301 COUNTY	DESIGNED BY: RW
			FEET	TO LEVELS ROAD	NEW CASTLE	CHECKED BY: RB

\_\_\_\_\_

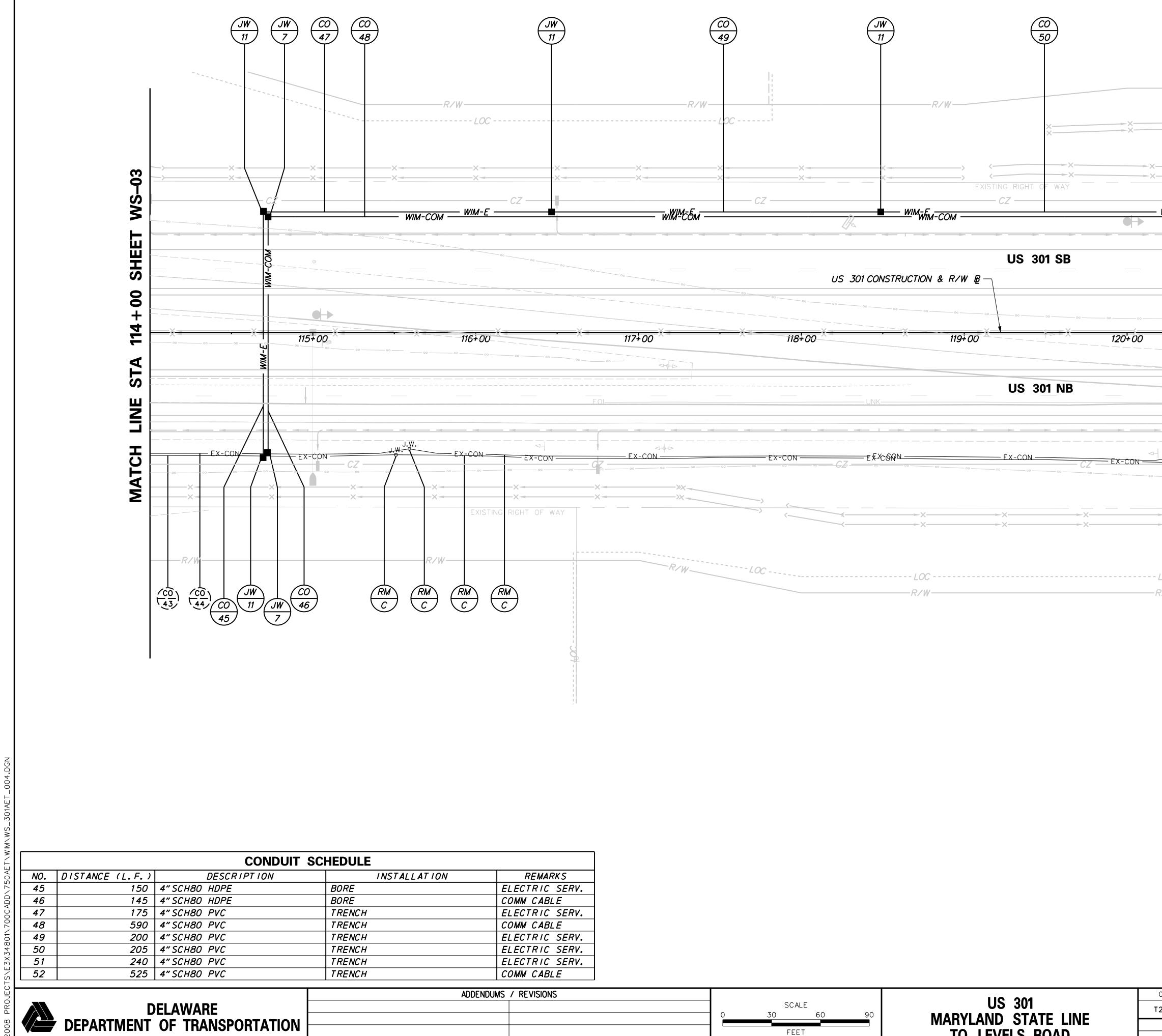


					_	
00		00	00 00	<i>C</i>	Z	
00	_ <u>x</u> =	113+00	×	00 00	00	
	00 00					
	00 00					
	0000					
				- EX-CON	—— EX	-CON
			00	- EX-CON	00	-CON
X-CON —				- EX-CON	00	-CON
X-CON —			 X	00 00	00	-CON
X-CON —			 X	00 00	00	-CON

			WS	-03
				SHEET NO.
\		0)//ON		802
WIM	AND	CVISIN	PLANS	TOTAL SHTS.

850

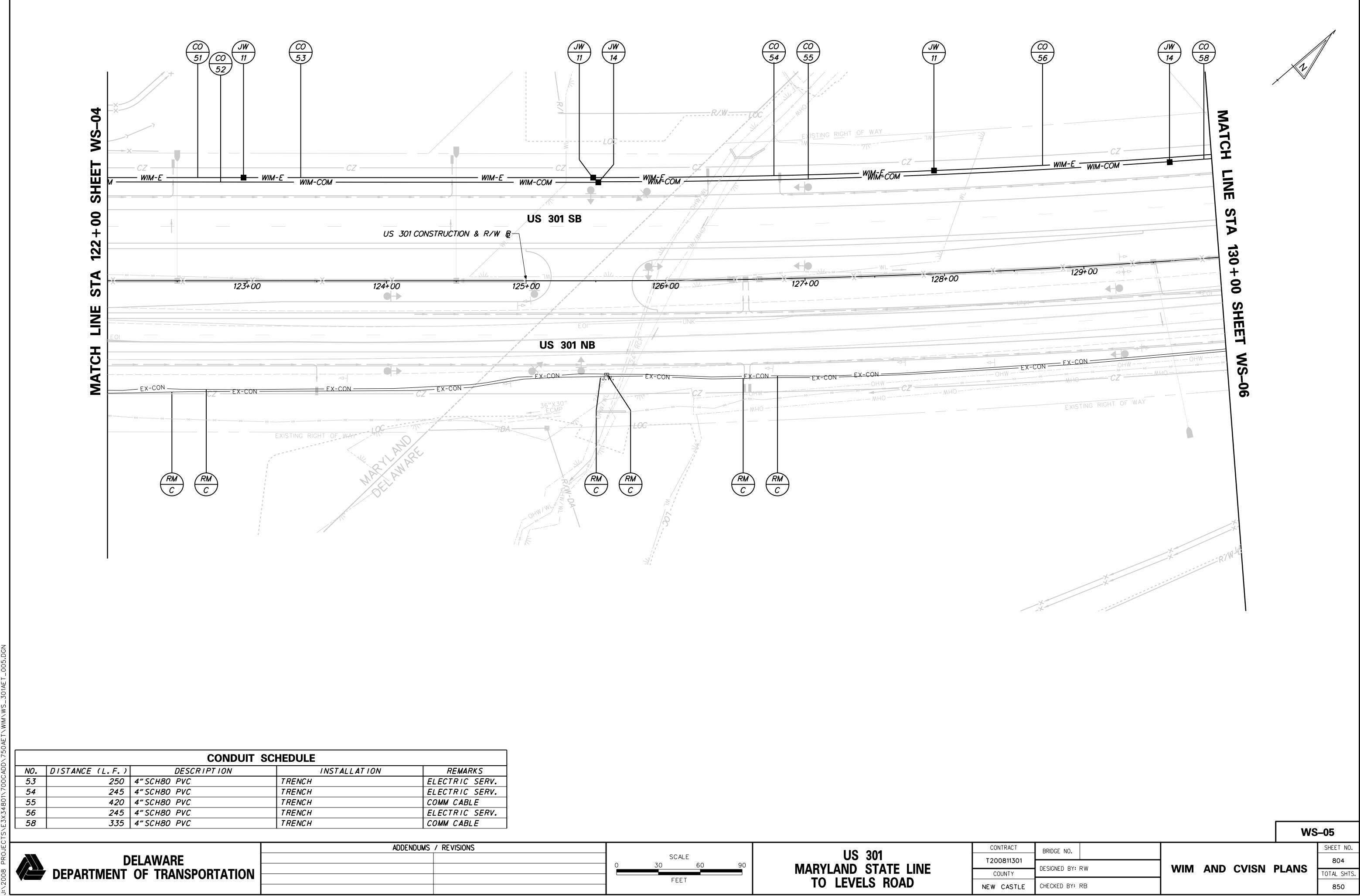
1



\_\_\_\_\_

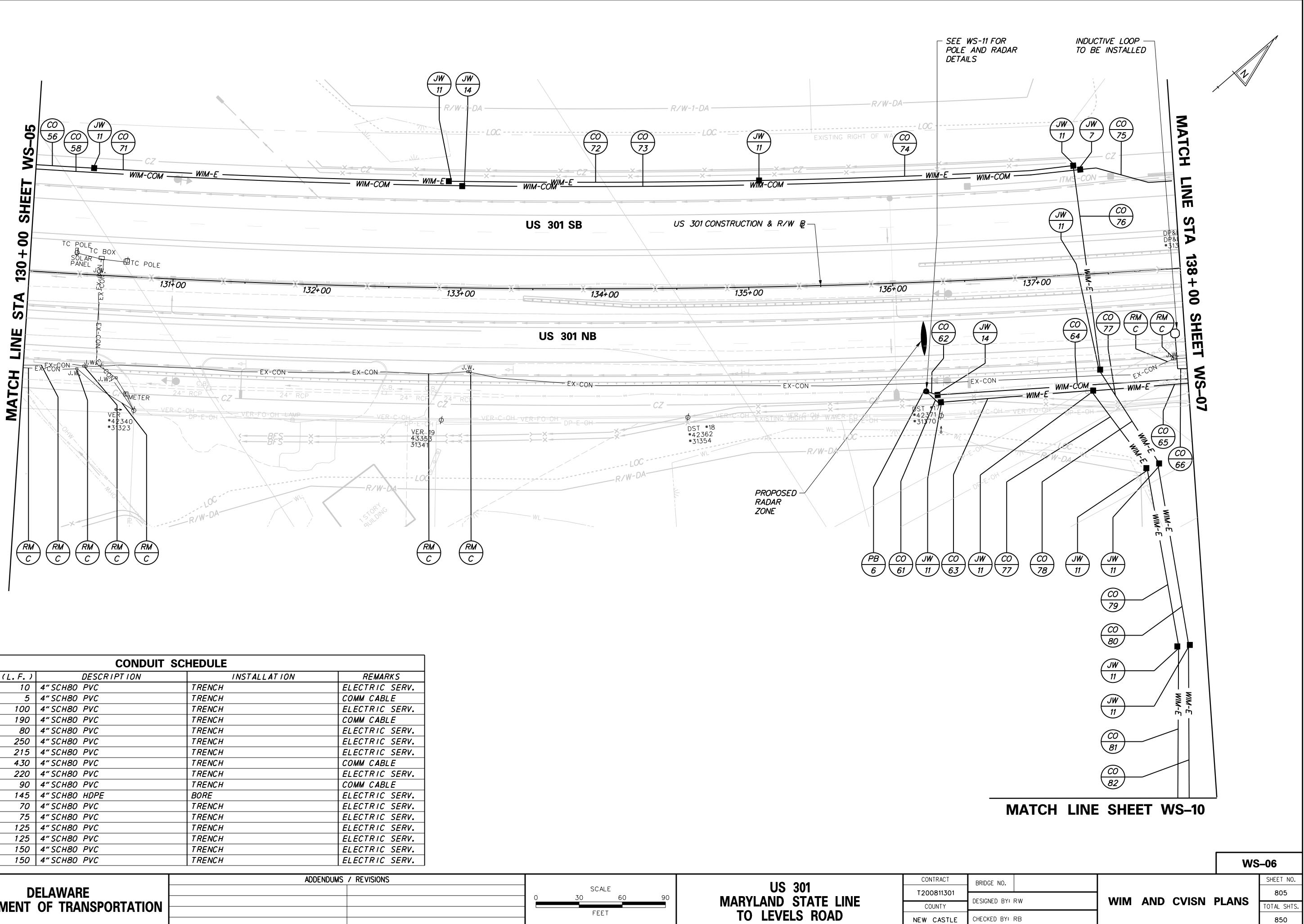
RK S	
SERV.	
LE	
SERV.	
LE	
SERV.	
SERV.	
SERV.	
LE	

₩ n 		W 1 		$ \begin{array}{c}                                     $		1	
×		X		СZ WW-Е	СО <b>СО К</b>		
<ul> <li>∞</li> <li>∞</li></ul>	US 301 CO	US 301 S	∞ ∞ ∞ ∞ ≥× 120+00	00 00 00 00 00 00 00 X 121+00 F 01 UNK	STA 122 + 00 SHEE		
N FX-CON N FX-CON 00	$\frac{E X - CON}{CZ} = E E$		CZ     EX-CON	$\frac{J.W.}{JW.} = EX-CON$			
		R/W					
RKS SERV. LE SERV. SERV. SERV. LE						WS-	
IS	SCALE 0 30 60 90 FEET	US 301 MARYLAND STATE TO LEVELS ROA	LINE CONTRACT T200811301 COUNTY NEW CASTLE	BRIDGE NO. DESIGNED BY: RW CHECKED BY: RB	WIM AND CVISN	PLANS	SHEET NO. 803 TOTAL SHTS. 850



RKS	
SERV.	
SERV.	
E	
SERV.	
E	

S		SCALE		US 301	С
	0 30		90	MARYLAND STATE LINE	12
		FEET		TO LEVELS ROAD	NEV



CONDUIT SCHEDULE					
NO.	DISTANCE (L.F.)	DESCRIPTION	INSTALLATION	REMAR	
61	10	4" SCH80 PVC	TRENCH	ELECTRIC	
<i>62</i>	5	4" SCH80 PVC	TRENCH	COMM CABL	
63	100	4" SCH80 PVC	TRENCH	ELECTRIC	
64	190	4" SCH80 PVC	TRENCH	COMM CABL	
65	80	4" SCH80 PVC	TRENCH	ELECTRIC	
71	250	4" SCH80 PVC	TRENCH	ELECTRIC	
72	215	4" SCH80 PVC	TRENCH	ELECTRIC	
73	430	4" SCH80 PVC	TRENCH	COMM CABL	
74	220	4" SCH80 PVC	TRENCH	ELECTRIC	
75	90	4" SCH80 PVC	TRENCH	COMM CABL	
76	145	4" SCH80 HDPE	BORE	ELECTRIC	
77	70	4" SCH80 PVC	TRENCH	ELECTRIC	
78	75	4" SCH80 PVC	TRENCH	ELECTRIC	
79	125	4" SCH80 PVC	TRENCH	ELECTRIC	
80	125	4" SCH80 PVC	TRENCH	ELECTRIC	
81	150	4" SCH80 PVC	TRENCH	ELECTRIC	
82	150	4" SCH80 PVC	TRENCH	ELECTRIC	

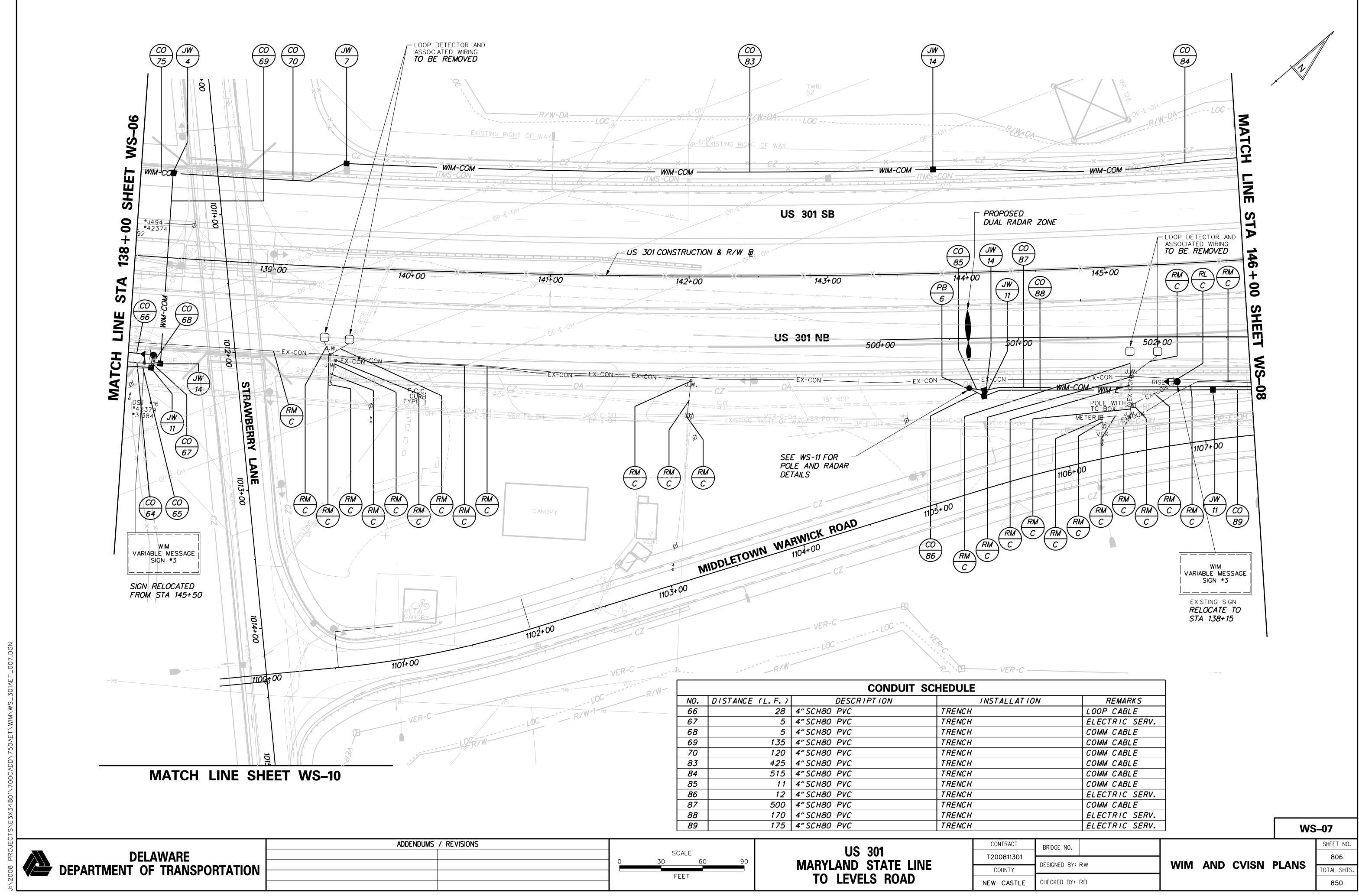


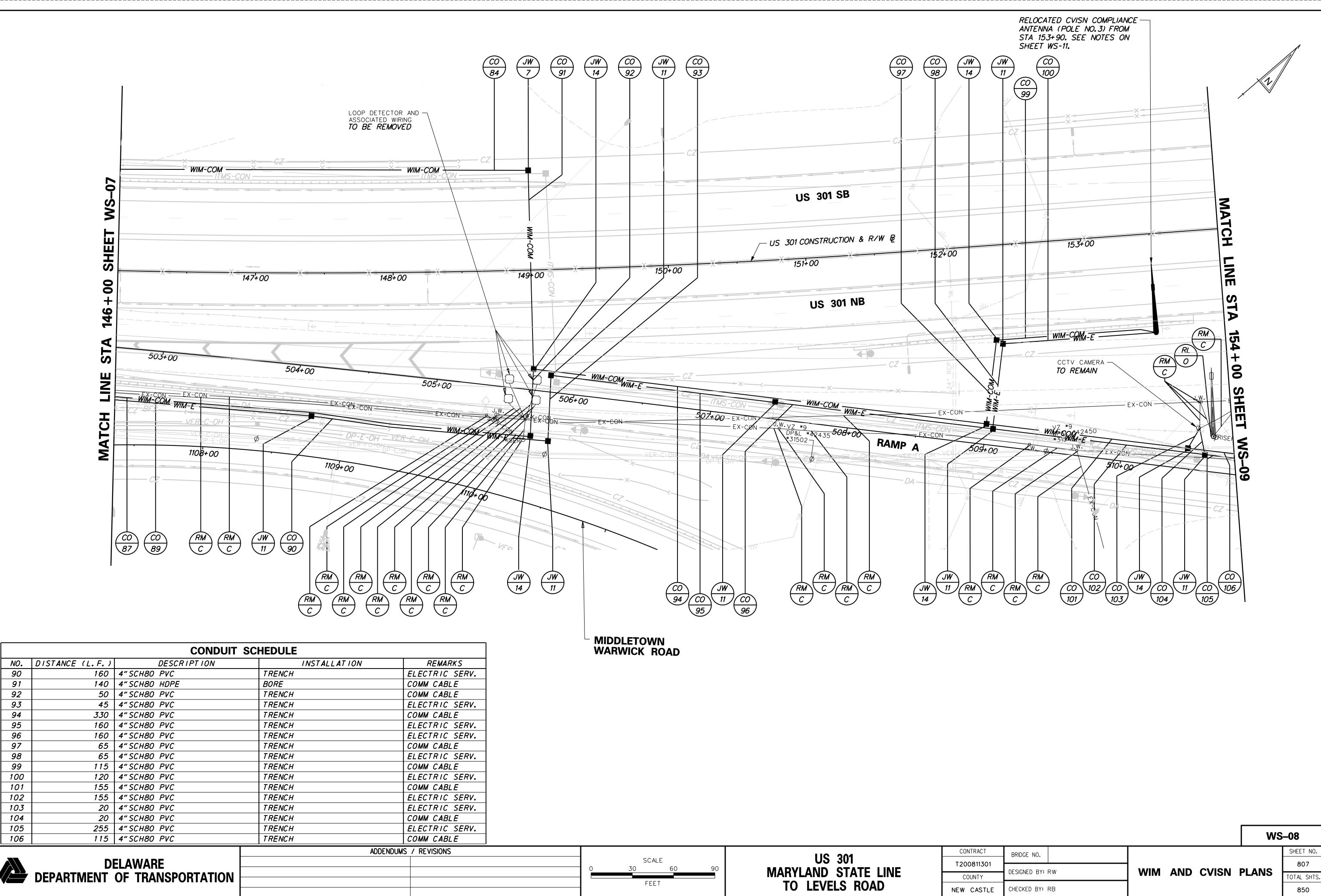
S	 60 90	US 301 MARYLAND STATE LINE	С Т2
SERV. SERV.			
SERV.			
SERV.			
PLE			
SERV.			
SERV.			
RKS			

850

NEW CASTLE

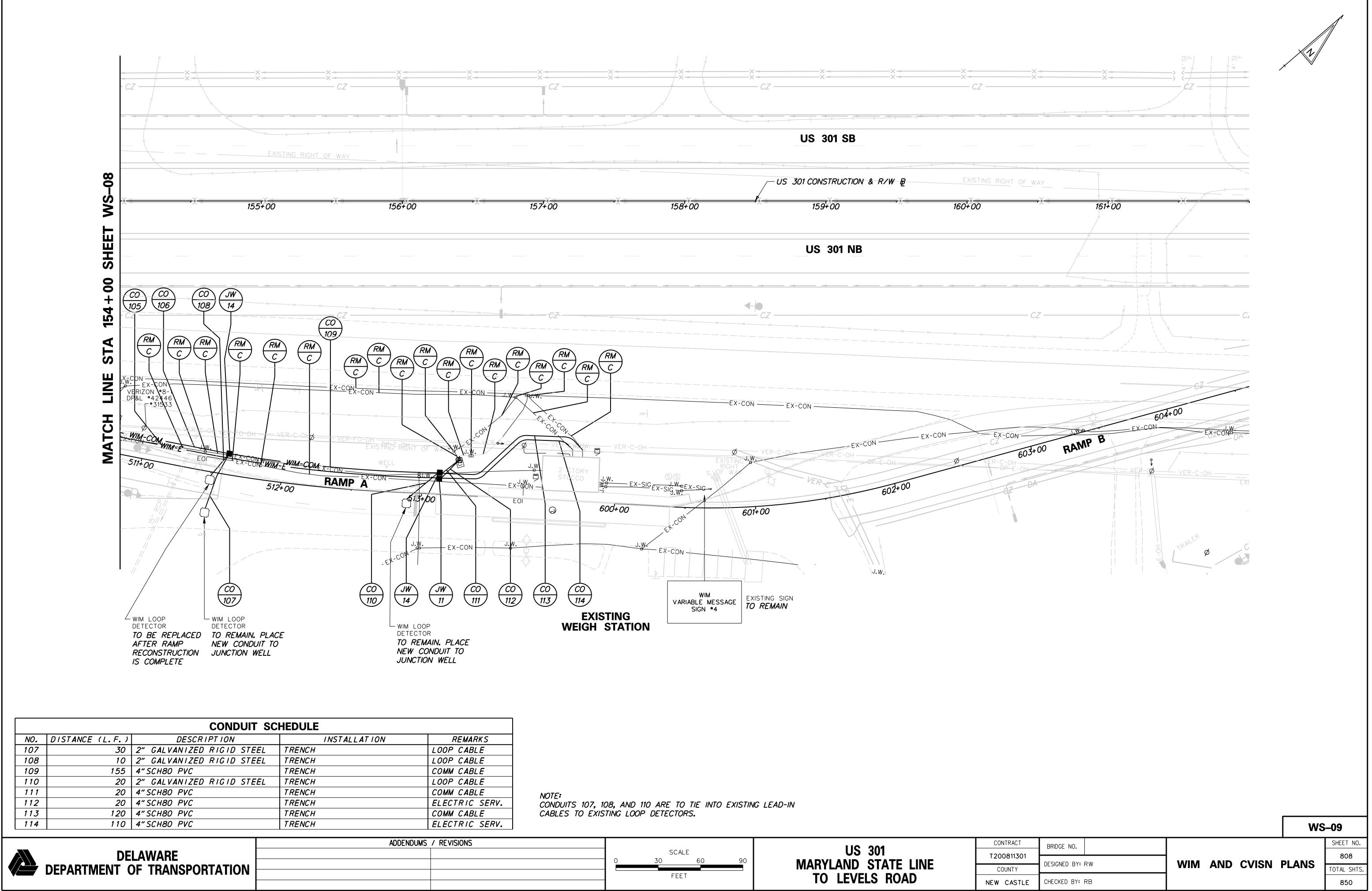
CHECKED BY: RB





008.DGN
_301AET_
<b>NIM/WS</b>
V750AET
700CADD
X34801\
JECTS/E3
0

		CONDU	JIT SCHEDULE	
NO.	DISTANCE (L.F.)	DESCRIPTION	INSTALLATION	REMAR
90	160	4" SCH80 PVC	TRENCH	ELECTRIC
91	140	4" SCH80 HDPE	BORE	COMM CABL
92	50	4" SCH80 PVC	TRENCH	COMM CABL
93	45	4" SCH80 PVC	TRENCH	ELECTRIC
94	330	4" SCH80 PVC	TRENCH	COMM CABL
95	160	4" SCH80 PVC	TRENCH	ELECTRIC
96	160	4" SCH80 PVC	TRENCH	ELECTRIC
97	65	4" SCH80 PVC	TRENCH	COMM CABL
98	65	4" SCH80 PVC	TRENCH	ELECTRIC
99	115	4" SCH80 PVC	TRENCH	COMM CABL
100	120	4" SCH80 PVC	TRENCH	ELECTRIC
101	155	4" SCH80 PVC	TRENCH	COMM CABL
102	155	4" SCH80 PVC	TRENCH	ELECTRIC
103	20	4" SCH80 PVC	TRENCH	ELECTRIC
104	20	4" SCH80 PVC	TRENCH	COMM CABL
105	255	4" SCH80 PVC	TRENCH	ELECTRIC
106	115	4" SCH80 PVC	TRENCH	COMM CABL
			A	ADDENDUMS / REVISIONS
	D	ELAWARE		



CONDUIT SCHEDULE					
NO.	DISTANCE (L.F.)	DESCR IPT ION	INSTALLATION	REMA	
107	30	2" GALVANIZED RIGID STEEL	TRENCH	LOOP CAE	
108	10	2" GALVANIZED RIGID STEEL	TRENCH	LOOP CAE	
109	155	4" SCH80 PVC	TRENCH	COMM CAE	
110	20	2" GALVANIZED RIGID STEEL	TRENCH	LOOP CAE	
111	20	4" SCH80 PVC	TRENCH	COMM CAE	
112	20	4" SCH80 PVC	TRENCH	ELECTRIC	
113	120	4" SCH80 PVC	TRENCH	COMM CAE	
114	110	4" SCH80 PVC	TRENCH	ELECTRIC	

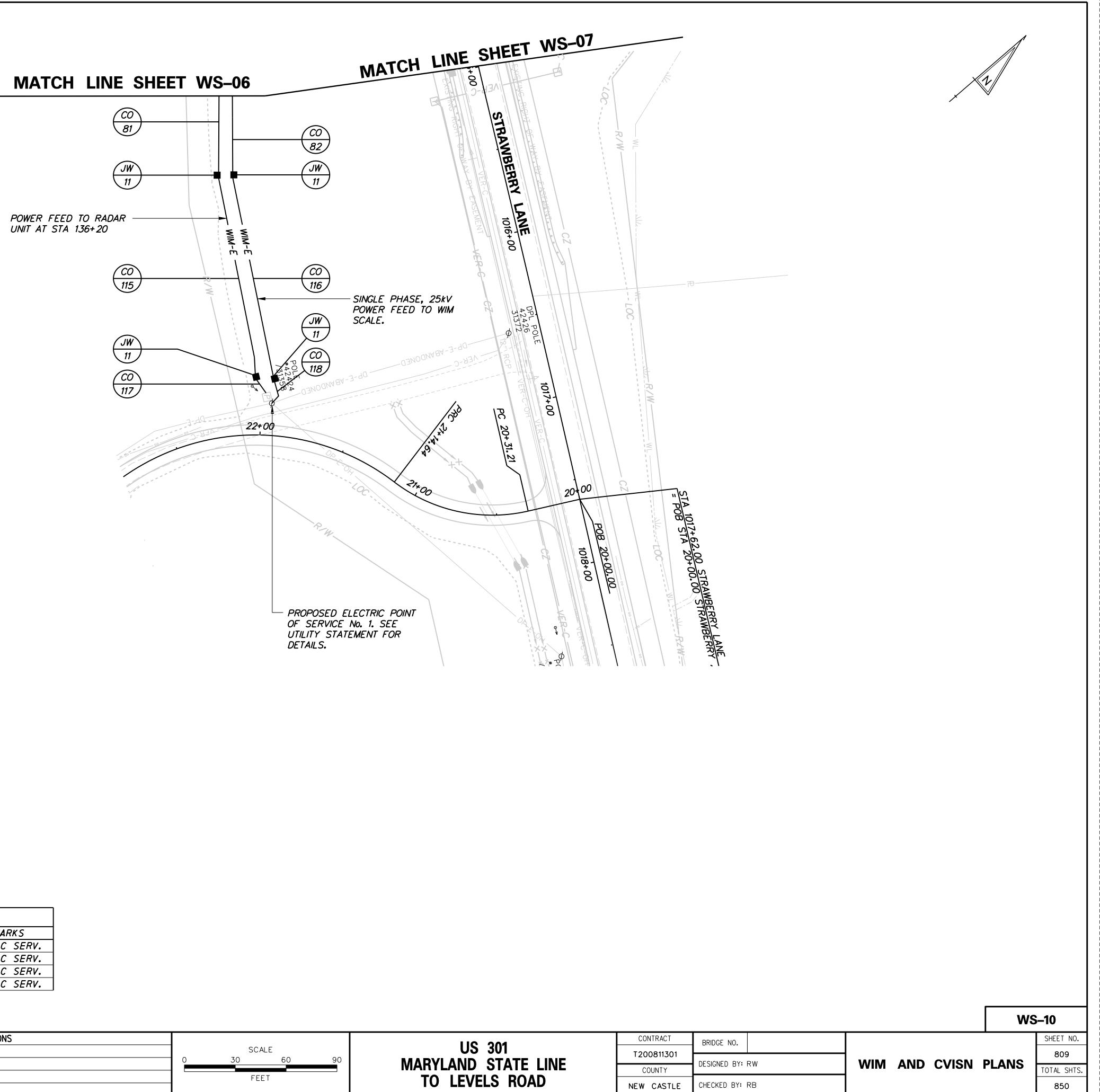


ARKS	
BLE	
C SERV.	
BLE	
C SERV.	

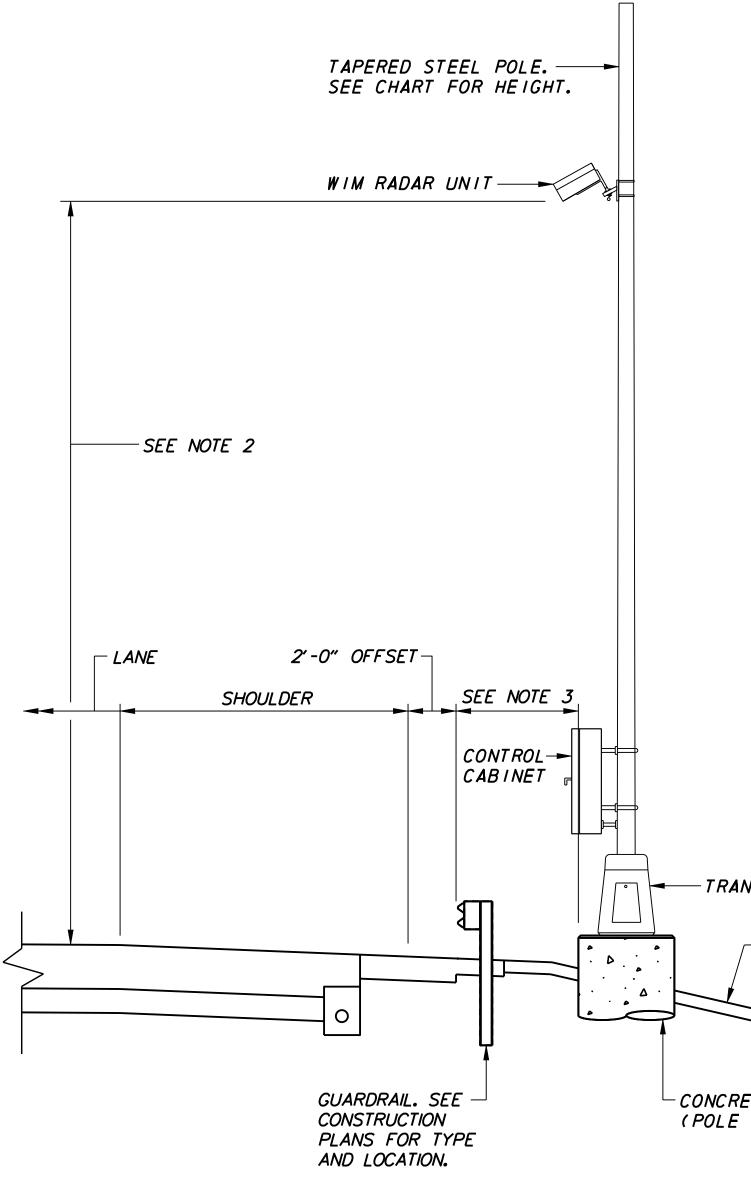
S					110 004	С
		SC	ALE		US 301	T2
	0	30	60	<u>9</u> 0	MARYLAND STATE LINE -	· 2
		FE	ET		TO LEVELS ROAD	
						NEV

	CONDUIT SCHEDULE						
NO.	DISTANCE (L.F.)	DESCRIPTION	INSTALLATION	REMA			
115	125	4" SCH80 PVC	TRENCH	ELECTRIC			
116	125	4" SCH80 PVC	TRENCH	ELECTRIC			
117	15	4" GALVANIZED RIGID STEEL	TRENCH	ELECTRIC			
118	20	4" GALVANIZED RIGID STEEL	TRENCH	ELECTRIC			

	ADDENDUMS /	/ REVISIONS				110 004	
DELAWARE			0 30	SCALE 60	90	US 301	T,
DEPARTMENT OF TRANSPORTATION				FEET		MARYLAND STATE LINE TO LEVELS ROAD	NF



RK S
SERV.
SERV.
SERV.
SERV.

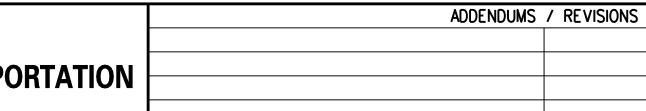


## WIM RADAR SUPPORT DETAIL

	WIM RADAR INFORMATION CHART						
RADAR NO.	POLE HEIGHT	POLE BASE TYPE	STATION	POLE LO	OCATION NORTHING	EASTING	REMARKS
1	-	-	94+53	75′	-	-	MOUNT TO EXISTING POLE.
2	25′	6	97+00	83. 25′	512277.9933	554714.9791	NEW INSTALLATION.
3	25′	6	109+06	72.00′	513198.1449	555495. 4090	NEW INSTALLATION.
4	30′	6	136+20	76.00ʻ	515317.9679	557204.9210	NEW INSTALLATION.
5	30'	6	144+00	83.50′	516018.4142	557568. 3778	NEW INSTALLATION.

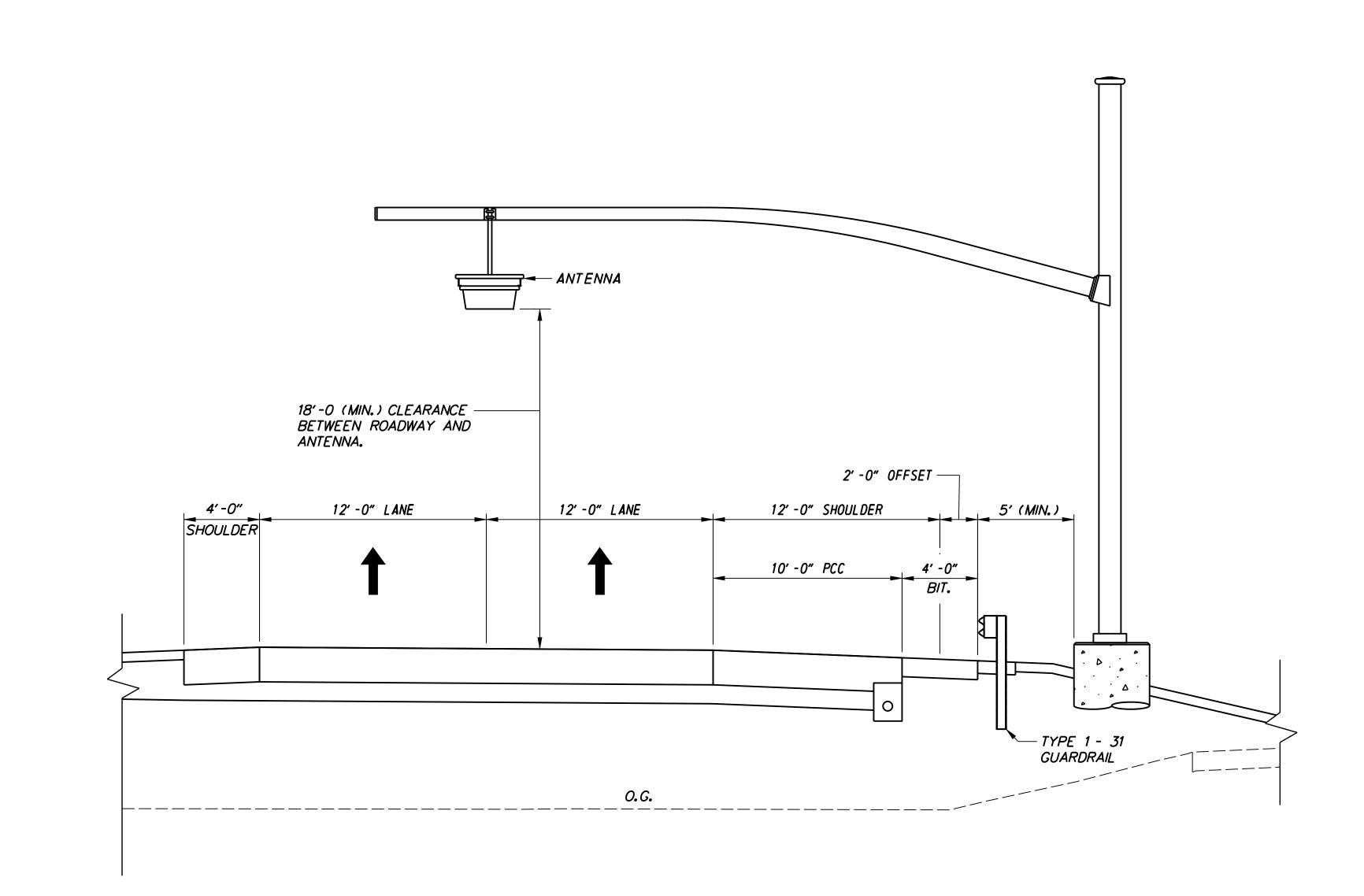
### NOTES

- 1. LOCATIONS NOTED ARE GIVEN TO CENTER OF POLE.
- RADAR MOUNTING HEIGHT TO BE DETERMINED BY WIM VENDOR. 2.
- 5' (MIN.) FOR TYPE 1-31 GUARDRAIL, AND 5'-6" (MIN.) FOR TYPE 1-27 GUARDRAIL. 3.
- FURNISHING AND INSTALLATION OF RADAR UNIT AND CONTROL CABINET TO BE INCLUDED WITH ITEM 763619 WEIGH IN MOTION 4. SYSTEM (WIM).
- PROPOSED POLES AND TRANSFORMER BASES TO BE FURNISHED AND INSTALLED BY DELDOT TRAFFIC FORCES. CONTRACTOR SHALL COORDINATE WITH DELDOT TRAFFIC FORCES AT 302.222.5920 TEN (10) WORKING DAYS PRIOR TO INSTALLING POLE BASES. 5.





DELAWARE **DEPARTMENT OF TRANSPORTATION** 



TRANSFORMER BASE

- FINISHED GRADE

CONCRETE FOUNDATION (POLE BASE TYPE 6)

## CVISN POLE AND MAST ARM DETAIL NB US 301 STATION 153+50

NOTES

- 1. EXISTING CVISN COMPLIANCE POLE, CONTROLLER CABINET, MAST ARM, AND ANTENNA TO BE RELOCATED FROM STA 153+90 TO STA 153+50. RELOCATION AND NEW POLE BASE TO BE INCLUDED WITH ITEM 746951 RELOCATING POLE AND MAST ARM. SEE POLE BASE DETAIL ON SHEET DT-22.
- PRIOR TO PHASE 5 OF CONSTRUCTION, THE ENGINEER WILL COORDINATE THE CVISN EQUIPMENT RELOCATIONS WITH THE CONTRACTOR AND CVISN REPRESENTATIVE. 2.
- THE CONTRACTOR WILL BE REQUIRED TO REMOVE THE CONDUIT, JUNCTION WELLS, AND POLE BASE(S) DESIGNATED TO BE REMOVED AS NOTED ON THE PLANS. THE REMOVAL OF THESE ITEMS SHALL OCCUR ONLY AFTER APPROVAL FROM THE ENGINEER. 3.
- 4. PAYMENT FOR REMOVING CONDUIT, CABLE, AND JUNCTION WELLS WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 211000 REMOVAL OF STRUCTURES AND OBSTRUCTIONS.

CVISN POLE AND MAST ARM INFORMATION CHART					
	POLE LOCATION DEMARKS				REMARKS
POLE NO.	STATION	OFFSET	NORTHING	EASTING	
1	94+53	75′	-	-	ANTENNA ADJUSTMENT ONLY.
2	104+10	75′	-	-	ANTENNA ADJUSTMENT ONLY.
3	153+50	72.00′	516930.8864	557866.2859	RELOCATE FROM STA 153+90.

	US 301	CONTRACT	BRIDGE NO.
NOT TO SCALE	MARYLAND STATE LINE	T200811301 COUNTY	DESIGNED BY: RWW
	TO LEVELS ROAD	NEW CASTLE	CHECKED BY: SKH

WIM AND **CVISN DETAILS**  WS-11

SHEET NO. 810 TOTAL SHTS. 850

		DECODIDION
SHEET N♀	DRAWING Nº	DESCRIPTION
GENERAL		
311	IS-06	INDEX OF SHEETS
312	LG-03	LEGEND
	UT-46	UTILITY CONSTRUCTION PLAN
ARCHITECTURAL	A-1	
314 315	A-1 A-2	ARCHITECTURAL LEGENDS AND ABBREVIATIONS
315	A-2 A-3	ARCHITECTURAL PLAN, ELEVATION AND DETAILS ARCHITECTURAL WALL SECTIONS
STRUCTURAL	A-2	ARCHITECTURAL WALL SECTIONS
STRUCTURAL 317	ST-01	STRUCTURAL GENERAL NOTES & ABBREVIATIONS
318	ST-02	STRUCTURAL GANTRY PLAN
319	ST-03	STRUCTURAL GANTRY ELEVATION
320	ST-04	STRUCTURAL GANTRY FOUNDATION
321	ST-05	STRUCTURAL GANTRY ELEVATION & SECTIONS
322	ST-06	STRUCTURAL GANTRY TRUSS DETAILS I
323	ST-07	STRUCTURAL GANTRY TRUSS DETAILS II
324	ST-08	STRUCTURAL STRUCTURES SECTIONS & DETAILS
<b>MECHANICAL</b>		
325	M-01	MECHANICAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES
326	M-02	MECHANICAL HUT PLAN 301 SB
327	M-03	MECHANICAL HUT PLAN 301 NB
328	M-04	MECHANICAL DETAILS & SCHEDULES
IRE PROTECTION	N	
329	FP-01	FIRE PROTECTION BASEMENT FLOOR PLAN, GENERAL NOTES & SYMBOL
330	FP-02	FIRE PROTECTION HUT PLAN 301 SB
331	FP-03	FIRE PROTECTION HUT PLAN 301 NB
332	FP-04	FIRE PROTECTION DETAILS & SCHEDULES
LECTRICAL		
333	E-01	ELECTRICAL LEGEND, SYMBOLS, & ABBREVIATIONS
334	E-02	ELECTRICAL SITE PLAN
335	E-03	ELECTRICAL HUT POWER PLAN 301 SB
336	E-04	ELECTRICAL HUT LIGHTING PLAN 301 SB
337	E-05	ELECTRICAL HUT POWER PLAN 301 NB
338	E-06	ELECTRICAL HUT LIGHTING PLAN 301 NB
339	E-07	ELECTRICAL PANEL SCHEDULES
340	E-08	ELECTRICAL PANEL SCHEDULES
341	E-09	ELECTRICAL DETAILS
342	E-10	ELECTRICAL LUMINAIRE SCHEDULE
343	E-11	ELECTRICAL MAIN ONE LINE DIAGRAM
<u>TC</u>		
344		ETC LEGEND, SYMBOLS & ABBREVIATIONS
345	ETC-02	ETC OVERALL SITE PLAN
346	ETC-03	ETC SITE & HUT 301 SB AET CONDUIT PLAN
347	ETC-04	ETC GANTRY CONDUIT PLAN AET SB
348	ETC-05	ETC SITE & HUT 301 NB AET CONDUIT PLAN
349	ETC-06	ETC GANTRY CONDUIT PLAN AET NB

.| REVISED: 5/12/2008 50343\_TOLL-PLAZA\GENERAL\XREFS\SB\_A1.[

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

S		110 001	CONTRACT
	NOT TO SCALE	US 301 MADVLAND STATE LINE	T20081130
		MARYLAND STATE LINE	COUNTY
		TO LEVELS ROAD	NEW CAST

			IS-06
ACT	BRIDGE NO.		SHEET NO.
1301			811
ΓY	DESIGNED BY: TD	INDEX SHEET	TOTAL SHTS.
STLE	CHECKED BY: BP		850

### FOR INFORMATION ONLY (BY OTHERS)

# EXISTING

	DRAINAGE
00	DITCH OR STREAM CENTERLINE
	DIRECTIONAL STREAM FLOW ARROW
С.В.	DRAINAGE CATCH BASIN
J.B.	DRAINAGE JUNCTION BOX
D	DRAINAGE MANHOLE
SIZE/TYPE LABEL	DRAINAGE PIPE AND FLOW ARROW
	DRAINAGE PIPE HEADWALL
	RIPRAP - AREA FEATURE
680	RIPRAP - LINEAR FEATURE

MANMADE ROADSIDE FEATURES				
(TYPE LABEL)	CURB			
(TYPE LABEL)	CURB AND GUTTER			
——х———	FENCE - CHAINLINK OR STRANDED			
o	FENCE - STOCKADE OR SPLIT RAIL			
FP	FLAG POLE			
	GUARDRAIL - STEEL BEAM			
_0	GUARDRAIL - WIRE ROPE			
L AMP ©	LAMP AND POST - RESIDENTIAL			
MB	MAILBOX			
PM	PARKING METER AND POST			
	PAVEMENT - FLEXIBLE			
	PAVEMENT - RIGID			
	PILE - BRIDGE			
0	PILLAR OR MISCELLANEOUS POST			
$\overline{\forall}$	TRAFFIC SIGN AND POST			
	WALL - BRICK OR BLOCK			
00000	WALL - STONE			

SYMBOLS			
	UTILITY		
$\mathbf{e}$	SOIL BORING LOCATION		
	UTILITY TEST HOLE LOCATION		
TV	CABLE TV DISTRIBUTION BOX		
E	ELECTRIC MANHOLE		
EM	ELECTRIC METER		
E	ELECTRIC TRANSFORMER		
$\square $	POLE MOUNTED LUMINAIRE		
G	GAS MANHOLE		
G.M.	GAS METER		
G.V.	GAS VALVE		
G.P.	GAS PUMP - SERVICE STATION		
	RAILROAD TRACKS		
S	SANITARY SEWER MANHOLE		
S.V.	SANITARY SEWER VALVE		
VENT	SANITARY SEWER VENT OR CLEANOUT		
S.D.F.	SEPTIC DRAIN FIELD		
В	TELEPHONE BOOTH		
()	TELEPHONE MANHOLE		
Τ	TELEPHONE TEST POINT		
J.W.	TRAFFIC - CONDUIT JUNCTION WELL		
$\bigcirc$	TRAFFIC - LIGHT POLE AND BASE		
٥	TRAFFIC - PEDESTRIAN POLE & BASE		
	TRAFFIC - SIGNAL CABINET & BASE		
8	TRAFFIC - SIGNAL POLE AND BASE		
U	UTILITY BOX		
0->	UTILITY POLE GUY WIRE ANCHOR		
Q	UTILITY POLE		
F. <b>H</b> .	WATER - FIRE HYDRANT		
W.M.	WATER METER		
₩.∀.	WATER VALVE		
WELL	WELL HEAD		

NATURAL ROADSIDE FEATURES		
	GRASS LAWN	
	HEDGEROW OR THICKET	
<u></u>	MARSH BOUNDARY LINE	
$\rightarrow$	TREE - CONIFEROUS	
	TREE - DECIDUOUS	
凤	TREE STUMP	
Ø	SHRUBBERY	
	DELINEATED WETLAND BOUNDARY LINE	
	WOODS LINE BOUNDARY	

SURVEY C	ONTROL & MONUMENTATION
B.M.	SURVEY BENCHMARK LOCATION
T.P.	SURVEY TIE POINT LOCATION
$\bigtriangleup$	SURVEY TRAVERSE POINT
۲	POINT OF CURVATURE OR TANGENCY
0	POINT OF INTERSECTING TANGENTS
C.M.	PROPERTY MARKER - CONCRETE MON.
I.P.	PROPERTY MARKER - IRON PIPE



ADDENDUMS / REVISIONS

CONSTRUCTION			
	CONCRETE SAFETY BARRIER - PERMANENT		
×BFS×	BIOFILTRATION SWALE		
	BUTT JOINT		
100+00	CONSTRUCTION BASELINE		
	CURB, TYPE 1 & TYPE 3		
	CURB, TYPE 2		
	CURB & GUTTER, TYPE 1		
	CURB & GUTTER, TYPE 2		
	CURB & GUTTER, TYPE 3		
	CURB & GUTTER, TYPE 4		
CZ	CLEAR ZONE		
•	DRAINAGE INLET		
××	DITCH		
°	FENCE - METAL		
• • •	FENCE - WOOD		
	FLARED END SECTION		
<u> </u>	GUARDRAIL, TYPES 1 & 3		
<u> </u>	GUARDRAIL, TYPE 2		
• • • • • • • • •	GUARDRAIL END TREATMENT - PARALLEL		
· · · · · · · · · · · · · · · · · · ·	GUARDRAIL END TREATMENT - PARABOLIC		
—— НС ——	HORIZONTAL CLEARANCE		
-	JUNCTION BOX - DRAINAGE		
<i>LOC</i>	LIMIT OF CONSTRUCTION		
•	MANHOLE		
	PAVEMENT PATCH		
	PIPE & DIRECTIONAL FLOW ARROW		
07107407107860070860 07107407107490710749	RIPRAP		
	P.C.C. SIDEWALK @ 6"		
·	UNDERDRAIN		
	UNDERDRAIN OUTLET		

## **PROPOSED SYMBOLS** CONTROL IDENTIFIERS (DS) (SW) DOWNSPOUT

EROSIO	N & SEDIMENT
- DWB -	DEWATERING BASIN
	EROSION CONTROL BL
ED /	EARTH DIKE
	INLET SEDIMENT CONT
·=====================================	PERIMETER DIKE/SWA
est.	PORTABLE SEDIMENT
RSF	REINFORCED SILT FE
SB0	SANDBAG DIKE
SB SB	SANDBAG DIVERSION
	STONE CHECK DAM
SCE	STABILIZED CONSTRU
SF	SILT FENCE
SP-1	SUMP PIT, TYPE 1
OF- SP-2	SUMP PIT, TYPE 2
ST	SEDIMENT TRAP
Ж,	SEDIMENT TRAP WITH
Q <sup>−</sup>	SEDIMENT TRAP PIPE
	STILLING WELL
	TEMPORARY SWALE
	TEMPORARY SLOPE L

	IDENTIFIERS
A C	ADJUST BY CONTRACTOR
Â	ADJUST BY OTHERS
B	CONCRETE SAFETY BARRI
Ć	CURB OR CURB & GUT
	CONVERT TO JUNCTION BO
CMH	CONVERT TO DRAINAGE M.
$\bigcirc$	CURB OPENING
CR	CURB RAMP / TYPE
<u>CR-N</u>	CURB RAMP / TYPE - WIT
	DRAINAGE INLET
DND	DO NOT DISTURB
(FES)	FLARED END SECTION
(FS)	FILTRATION STRUCTURE
<u>CR</u>	GUARDRAIL
JB	JUNCTION BOX
	LANDSCAPE PLANTINGS
	MANHOLE
M	MONUMENT - RIGHT-OF-V
P	PIPE
(RL) C	RELOCATE BY CONTRACTO
RLO	RELOCATE BY OTHERS
RM C	REMOVE BY CONTRACTOR
(RM)	REMOVE BY OTHERS
<u></u>	SEDIMENT TRAP
	SILT FENCE
	UNDERDRAIN

CONSTRU	CTION PHASING SYMBOLS
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
	CONSTRUCTION WARNING SIGN LOCATION
END ROAD WORK	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
Pur ->	PHASING TRAFFIC FLOW ARROW

LANDSCAPING					
	SHRUBBERY				
鏺	CONIFEROUS TREE				
œ	DECIDUOUS TREE				

BLANKET

NTROL 

NALE

TANK

ENCE

PUCTION ENTRANCE

ITH INLET AS OUTLET PE OUTLET

DRAIN

BARRIER

& GUTTER

ION BOX

AGE MANHOLE

\_ WITHOUT SIDEWALK SURFACE DETECTABLE WARNING SYSTEM

T-OF-WAY

RACTOR

RS ACTOR

CHEC

РА	VEMENT SECTION(S)
	OVERLAY PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS
	RECONSTRUCTED PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS
	DRIVEWAY AND ENTRANCE PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS

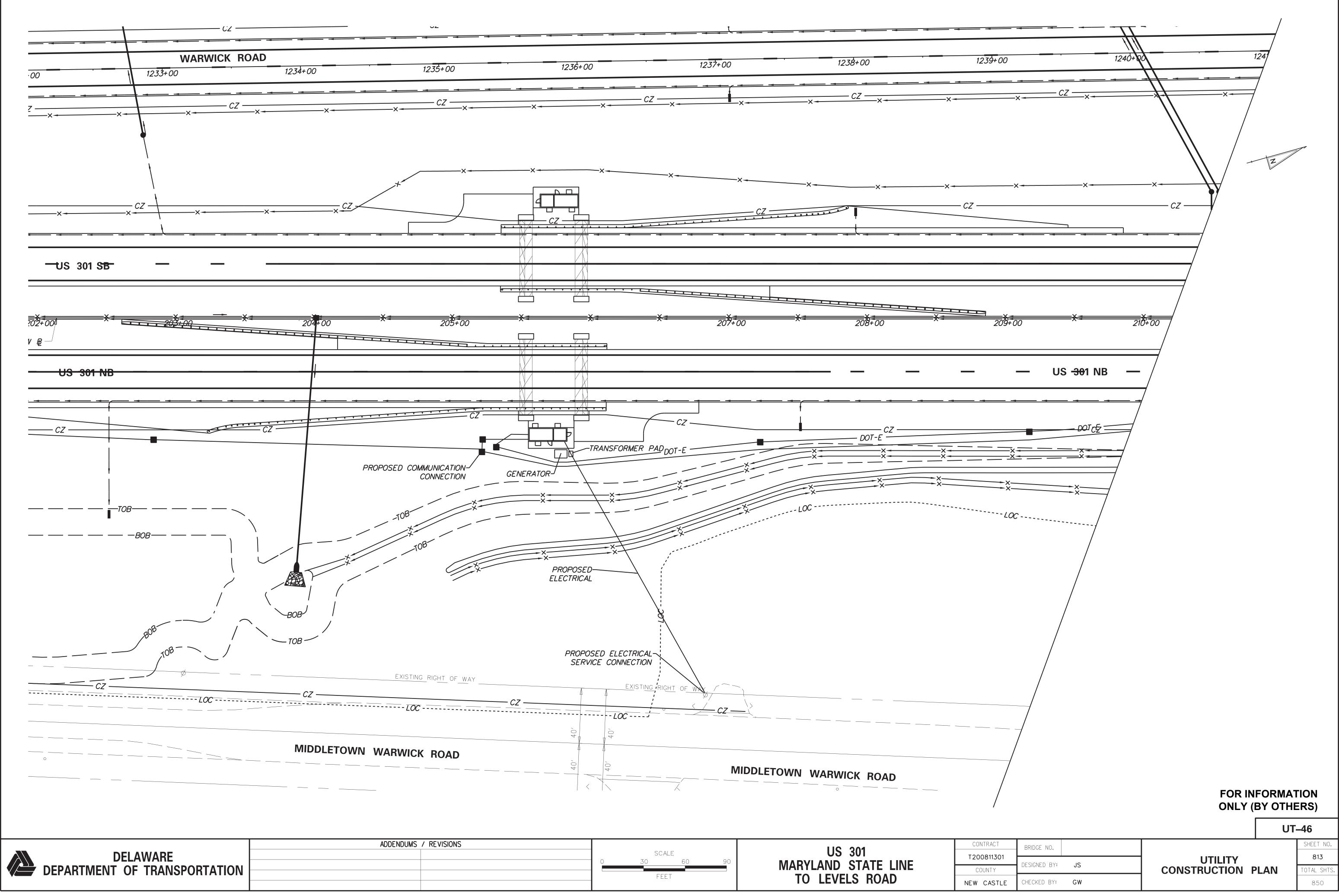
SIDEWALK

RIGHT-OF-WAY SYMBOLS					
0	PROPOSED RIGHT-OF-WAY MONUMENT				
	EXISTING PROPERTY LINE				
— EASEMENT TYPE —	EXISTING EASEMENT				
	EXISTING RIGHT-OF-WAY				
DA	PROPOSED DENIAL OF ACCESS				
—— – <i>PE</i> —— —	PROPOSED PERMANENT EASEMENT				
—— R/W ——	PROPOSED RIGHT-OF-WAY				
— R/W-DA —	PROPOSED R/W & DENIAL OF ACCESS				
—— - TCE —— -	TEMPORARY CONSTRUCTION EASEMENT				
100+00	PROPOSED RIGHT-OF-WAY BASELINE				
100+00	HISTORIC RIGHT-OF-WAY BASELINE				

TRAFFIC				
	ITMS CONDUIT			
	SIGNAL CONDUIT			
	CONDUIT JUNCTION WELL			
·	LUMINAIRE			
$\rightarrow$	PAVEMENT MARKINGS			
	PAVEMENT STRIPING			
	TRAFFIC SIGN			

### FOR INFORMATION ONLY (BY OTHERS)

		LG–03
DGE NO.		SHEET NO.
		812
GNED BY: TD	LEGEND	TOTAL SHTS.
KED BY: BP		850

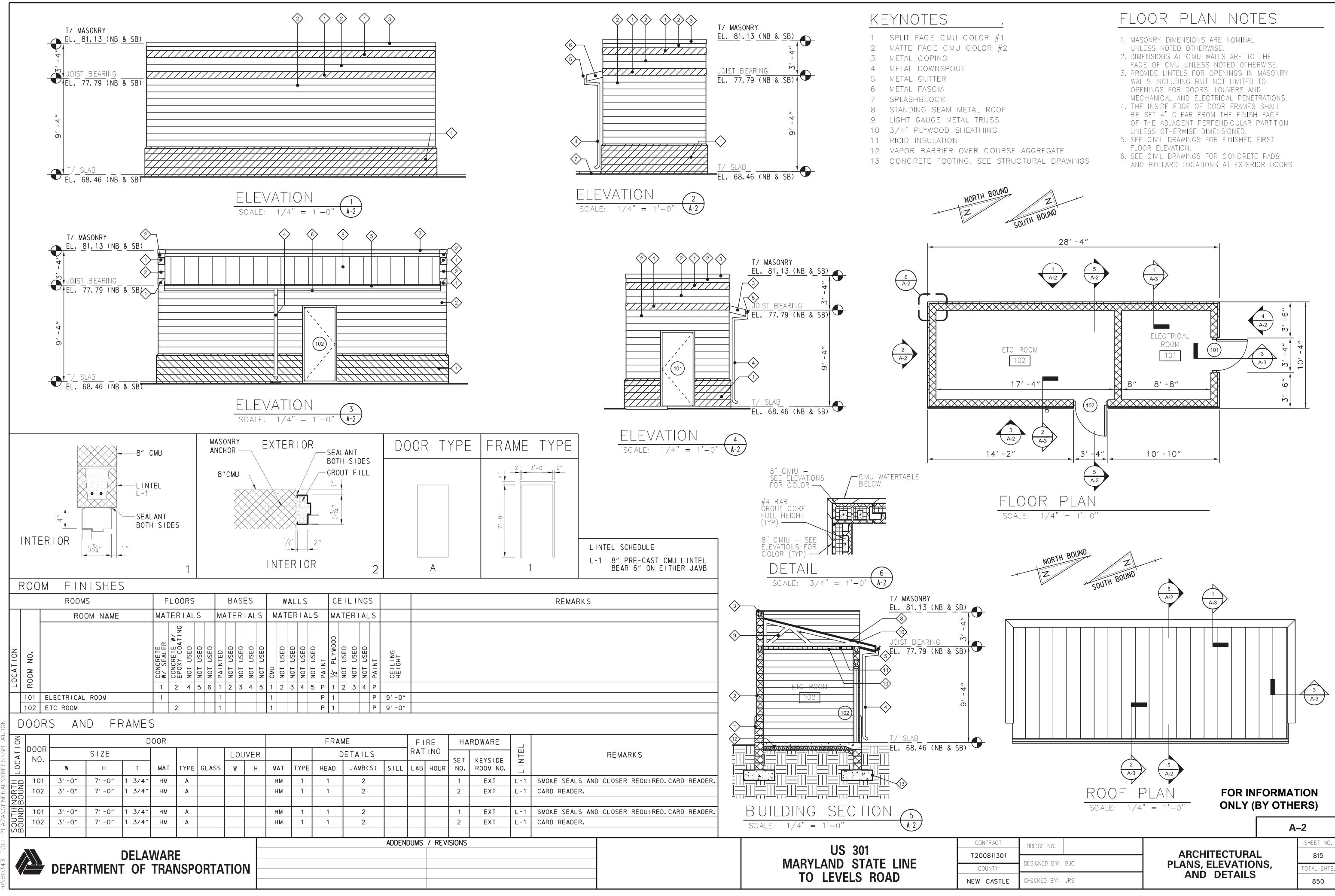


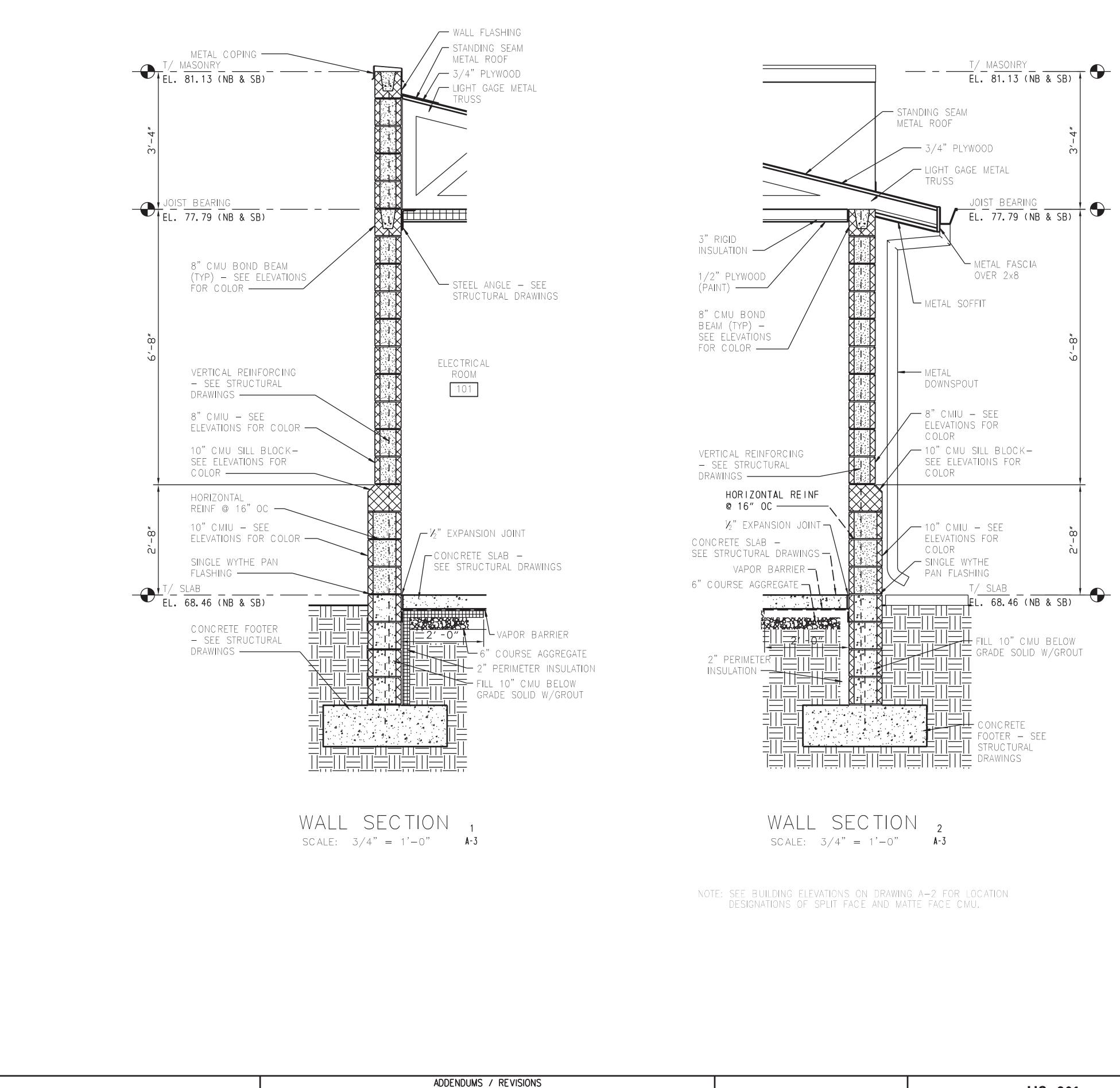
S	SCALE 0 30 60 90	US 301	С Т2
	FEET	MARYLAND STATE LINE TO LEVELS ROAD	NEV

GENERAL NOTES	ARCH	HITECTURAL ABBRE
1. ALL WORK SHALL BE COORDINATED WITH DELDOT.	ABV AC	ABOVE AIR CONDITIONER
	ACST	ACOUSTIC
2. COORDINATION OF WORK: THE CONTRACTOR HAS THE	ADDL	ADDITIONAL
RESPONSIBILTY TO COORDINATE THE WORK OF SUBCONTRACTORS TO SUIT PROJECT CONDITIONS. THE	ADJ	ADJACENT
CONTRACT SCOPE OF WORK SHALL INCLUDE ALL WORK	AFF	ABOVE FINISH FLOOR
TO PROVIDE A FINISHED CLEAN AND NEAT	AGGR	AGGREGATE ALUMINUM
APPEARANCE.	AL ALT	ALTERNATE
Z VERIEY AND COORDINATE THE LOCATION OF	ARCH	ARCHITECTURAL
3. VERIFY AND COORDINATE THE LOCATION OF EQUIPMENT WITH ELECTRICAL, AND MECHANICAL	ASB	ASBESTOS
DRAWINGS.	ASPH	ASPHALT
4. ALL DIMENSIONS SHOWN TO FACE OF	ASPHRS	ASPHALT ROOF SHINGLES
CMU OR CENTERLINE OF COLUMN GRID	ASSN	ASSOCIATION
UNLESS OTHERWISE NOTED. DIMENSIONS	ASST ASSY	ASSISTANT ASSEMBLY
NOTED "CLEAR" SHALL BE FROM FINISH	AVE	AVENUE
FACE TO FINISH FACE.	AVG	AVERAGE
5. ALL DIMENSIONS SHALL BE FIELD VERIFIED	B/0	BOTTOM OF
PRIOR TO FABRICATION, ERECTION, AND/OR	BALC	BALCONY
INSTALLATION. THE CONTRACTOR SHALL BE	BD BETW	BOARD BETWEEN
RESPONSIBLE FOR REMEDYING ANY DIMENSIONAL	BLDG	BUILDING
ERRORS IN FABRICATION, ERECTION, AND/OR	BLKG	BLOCKING
INSTALLATION WITHOUT ADDITIONAL COST TO	BLR	BOILER
THE OWNER AND WITHOUT ADDITIONAL TIME TO	BM	BEAM
PROJECT SCHEDULE.	BP	BASE PLATE
6. FOR ALL DIMENSIONS NOT SHOWN ON FLOOR	BRDG	BRIDGING
PLAN REFER TO ENLARGED PLANS.	BRG BS	BEARING BOTH SIDES
	BSMT	BASEMENT
7. ALL MASONRY DIMENSIONS, MO, ETC ARE NOMINAL DIMENSIONS UNLESS OTHERWISE NOTED.	CAB	CABINET
DIMENSIONS UNLESS OTHERWISE NOTED.	CAP	CAPACITY
8. SEE SPECIFICATIONS FOR ALL INTERIOR	CARP	CARPET
AND EXTERIOR SIGNAGE REQUIREMENTS.	CDR	COILING DOOR
9. FE INDICATES FIRE EXTINGUISHER. SURFACE MOUNTED	CER	CERAMIC
UNITS	CER TILE CI	CERAMIC TILE CAST IRON
10 INTERIOR DOOR DIMENSIONS ARE TO MASONRY	CIP	CAST-IRON PIPE
10. INTERIOR DOOR DIMENSIONS ARE TO MASONRY OPENINGS UNLESS OTHERWISE NOTED.	CJ	CONTROL JOINT
OFENINGS UNLESS UTHERWISE NUTED.	CL	CENTERLINE
11. SEE MECHANICAL / ELECTRICAL DRAWINGS FOR EXACT	CLG	CEILING
LOCATION OF CURB AND TYPE OF EQUIPMENT. SEE	CLO	CLOSET
STRUCTURAL DRAWINGS FOR REINFORCING REQUIREMENTS.	CLR CMIU	CLEAR CONCRETE MASONRY INSULATED UNIT
REQUIREMENTS.	CMU	CONCRETE MASONRY UNIT
12. ALL PARTITIONS SHALL EXTEND TO THE UNDERSIDE OF	CNCL	CONCEALED
THE STRUCTURAL DECK AND/OR TO BOTTOM OF TRUSS	СО	CLEANOUT
AND BE SEALED TIGHTLY WITH NON-COMBUSTIBLE	СОМ	COMPANY
SEALANT.	COL	COLUMN
13. ALL CEILINGS TO RECEIVE SAME PAINT FINISH AS THE	COMP CONC	COMPOSITION CONCRETE
ROOM WALLS UNLESS OTHERWISE NOTED.	CONC	CONSTRUCTION
	CONT	CONTINUOUS
	CONTR	CONTRACTOR
	CRV	CURVED
	CSK	COUNTERSINK
	CTD	COATED
	CTR CUH	CENTER CABINET UNIT HEATER
	D	DEPTH
	DBL	DOUBLE
	DEG	DEGREE
	DEPT	DEPARTMENT
	DET	DETAIL
	DGL	DIAGONAL
	DIA DIM	DIAMETER DIMENSION
	DIV	DIVISION
	DL	DEAD LOAD
	DMPF	DAMPPROOFING
	DN	DOWN
	DPN DR	DEMOUNTABLE PARTITION MANUFACTURER
	DR	DOUR DOWNSPOUT
	DW	DISHWASHER
	DWG	DRAWING
	E	EAST
	EA	EACH
	EGEN	EMERGENCY GENERATOR
	EF EIFS	EXHAUST FAN EXTERIOR INSULATION & FINISH SYSTEM
	EL	ELEVATION
	ELEC	ELECTRICAL
	ELEV	ELEVATOR
	ENTR	ENTRANCE
	EPDM	ETHYLENE PROPYLENE DIENE MONOMER
	ETC EQ	ETCETERA EQUAL
	EQUIP	EQUIPMENT
	EWC	ELECTRIC WATER COOLER
	EXH	EXHAUST
	EXIST	EXISTING
	EXP	EXPANSION
	EXP JT	EXPANSION JOINT
	EXT FAB	EXTERIOR FABRICATE
		ADDENDUMS / REVISIONS

TURAL ABBREVI.	FBD	FIBERBOARD	OSB	ORIENTED ST	RAND BOARD	(101) - DOOR I	NUMBER REFERENCE		
NDITIONER	FC	FILE CABINET	P/L	PROPERTY L	INE		NOWBER REFERENCE		A SECTION REFERENCE
TIC DNAL	FD FDN	FLOOR DRAIN FOUNDATION	PASS PERF	PASSENGER PERFORATEL	)	101 - ROOM	NUMBER REFERENCE	A3	DRAWING ON WHICH SECTION APPEARS
ENT	FDR	FIRE DOOR	PL	PLATE					ſ
FINISH FLOOR GATE	FE FEC	FIRE EXTINGUISHER FIRE EXTINGUISHER & CABINET	PLAS PLBG	PLASTER PLUMBING		$\langle w_2 \rangle$ - window	V TYPE REFERENCE		DETAIL REFERENCE
IUM	FHY	FIRE HYDRANT	PLYWD	PLYWOOD					
IATE	FIN	FINISH	PNL	PANEL		L-1 - LINTEL	TYPE REFERENCE		DRAWING ON WHICH DETAIL APPEARS
ECTURAL TOS	FL FLEX	FLASHING FLEXIBLE	PNT PORC	PAINT PORCELAIN					MULTIPLE ELEVATION REFERENCE
LT	FLG	FLANGE	PR	PAIR		LVI - LOUVEF	R TYPE REFERENCE		MULTIPLE ELEVATION REFERENCE
T ROOF SHINGLES	FLR	FLOOR	PREFAB	PREFABRICA	TED				
A <i>TION</i> ANT	FLRG FP	FLOORING FIREPROOF	PROJ PSF	PROJECT POUNDS PEI	R SQUARE FOOT	(0.0) - COLUMI	N REFERENCE		DRAWING ON WHICH ELEVATIONS APPEAR
3LY	FRP	FIBERGLASS-REINFORCED	PSI	POUNDS PEI	R SQUARE INCH				<b>N</b>
- :E	FT	PLASTICS FOOT	PT PTD	POINT PAINTED		5 - TOILET	ACCESSORY REFERENC	· · ·	
OF	FTG	FOOTING	PTD PTN	PARTITION				(43	DRAWING ON WHICH ELEVATION APPEARS
1Y	FURN	FURNITURE	PVC	POLYVINYL C			ON TYPE REFERENCE		
N	GA GAL V	GAUGE GALVANIZED	QTF R	QUARRY-TILE RADIUS	FLOOR	INDICATES	S PARTITION HEIGHT TO CEILING	BE (	
G	GAR	GARAGE	RI	RISER			S PARTITION HEIGHT TO		
VG	GEN	GENERATOR	RD	ROOF DRAIN		UNDERSIE	DE OF STRUCTURAL DEC	CK ABOVE	LARGE SCALE PLAN/SECTION/ DETAIL REFERENCE
	GL GLU-LAM	GLASS GLUE-LAMINATED	REF REINF	REFRIGERATO REINFORCE	JR			Ň	DETAIL REFERENCE
LATE	GOVT	GOVERNMENT	REQD	REQUIRED		- ELEVAT	TION INDICATION		A401 DRAWING ON WHICH LARGE SCALE
G	GR	GRADE GROUND	RET	RETURN					DRAWING ON WHICH LARGE SCALE
G SIDES	GRD GVL	GRAVEL	REV REG	REVISION REGISTER		<u>/0</u> - REVISIO	ON REFERENCE		
ENT	GWB	GYPSUM WALLBOARD	RFG	ROOFING					
Τ ΓΥ	GYP H	GYPSUM HIGH	RH RM	RIGHT HAND ROOM			ON CLOUD	*	- NORTH ARROW REFERENCE
Γ	HCP	HANDICAP	RWC		CONDUCTOR				$\checkmark$
DOOR	HDWE	HARDWARE	S	SOUTH				·	
IC IC TILE	HM HMD	HOLLOW METAL HOLLOW METAL DOOR	SAPC SB	SUSPENDED SOUTH BOUI	ACOUSTICAL PANEL CEILING	MATERIALS			
RON	HORIZ	HORIZONTAL	SCHED	SCHEDULE			LLGLIND		
RON PIPE	HPT	HIGH POINT	SDG	SIDING					
DL JOINT RLINE	HT HTR	HEIGHT HEATER	SEC SF	SECTION SQUARE FOO	)T	— ВRIСК		— STEEL	- CONCRETE - PLYWOOD
	HVAC	HEATING, VENTILATING, &	SGFT		GLAZED FACING TILE			<b>林林林林林林林</b> 林林林林	
	10	AIR CONDITIONING	SH	SHOWER		СМИ		— ALUMINUM	- GYP BD / GROUT - ACOUSTICA PANEL
TE MASONRY INSULATED UNIT	IE IE	INSIDE DIAMETER THAT IS	SHM SHT	SHEET	OLLOW METAL	ACOUSTICAL O		— FINISH	- BATT INSULATION TILE
TE MASONRY UNIT	IH	INTAKE HOOD	SI		AL SYSTEM OF UNITS	- ACOUSTICAL (			
LED UT	IN INSUL	INCH INSULATION	SIM SKY	SIMILAR SKYLIGHT		СМІИ		- DIMENSIONAL	— RIGID INSULATIONOSB
lY	INTR	INTERIOR	SLDR	SLIDING DOO	R			LUMBER	
	JST	JOIST	SMLS	SEAMLESS		$\left\langle \left\langle \left$		- SHIM	– COARSE EARTH
SITION TE	JT LAB	JOINT LABORATORY	SPA SPEC	SPACED SPECIFICATIC	)N	GLAZED CMU		radadad	AGGREGATE /
RUCTION	LAM	LAMINATE	SPKLR	SPRINKLER					BALLAST
JOUS	LAV	LAVATORY	SPKR	SPEAKER		CODE CRITER		REFERENCES ARE FROM THE INTER	
CTOR	LG LH	LENGTH LEFT HAND	SQ SS	SQUARE STAINLESS S	STEEL	CODE CRITER	TA ALL CODE	REFERENCES ARE FROM THE INTER	VATIONAL BUILDING CODE 2006
RSINK	LIB	LIBRARY	STD	STANDARD		DESCRIPTION	CODE REFERENC	CE REQUIREMENT	PROVIDED
	LIN	LINEAR LIVE LOAD	STL STOR	STEEL STORAGE		GENERAL			
UNIT HEATER	LL LLH	LONG LEG HORIZONTAL	STOR	STORAGE STRUCTURE/	STRUCTURAL	USE GROUP SIMILAR TO:	312.1	UTILITY AND MISCELLANEOU	US GROUP (U) UTILITY AND MISCELLANEOUS GROUP (
	LLV	LONG LEG VERTICAL	STWY	STAIRWAY		CONSTRUCTION TYPE:	TABLES 601	TYPE 2-B	TYPE 2-B
	LPT LT	LOW POINT LIGHT	SUPT SUPVR	SUPERINTEN SUPERVISOR		NO. OF STORIES	TABLE 503	2 STORIES (MAX)	1 STORY
MENT	LWC	LIGHTWEIGHT CONCRETE	SURF	SURFACE		BUILDING AREA	TABLE 503	8,500 SF (MAX)	293 SF
	MAINT	MAINTENANCE	SUSP		SUSPENSION	SPECIAL REQUIREMENTS	CHAPTER 4 - N/A		
NL F.R	MAS MATL	MASONRY MATERIAL	SYS T	SYSTEM TREAD		SPRINKLERED	DELAWARE STATE	NOT REQUIRED	CLEAN AGENT FIRE SUPRESSION SYSTE
ON	MAX	MAXIMUM	Τ/Ο	TOP OF			FIRE PREVENTION	REG.	PROVIDED FOR ETC ROOM
ı OAD	MECH MEMB	MECHANICAL MEMBRANE	T&B T&G	TOP AND BO TONGUE AND		FIRE ALARM SYSTEM	907	FIRE ALARM	FIRE ALARM
OAD ROOFING	MEZZ	MEMBRANE MEZZANINE	TAN	TONGUE ANL TANGENT		FIRE RESISTANCE RATING		NOT REQUIRED	PROVIDED
	MFR	MANUFACTURER	TDD	TELECOMMUN	ICATION DISPLAY DEVICE	BUILDING ELEMENTS			
ITABLE PARTITION MANUFACTURER	MGR MH	MANAGER MANHOLE	TEL TEMP	TELEPHONE TEMPORARY		1. STRUCTURAL FRAME	TABLE 601	0 HOURS	0 HOURS
OUT	MIL	MILITARY	TER	TERRAZZO		2. BEARING WALLS	TABLE 601	0 HOURS	0 HOURS
SHER	MIN	MINIMUM	THRU	THROUGH		3. NON BEARING WALLS 4. FLOOR CONSTRUCTION	TABLE 601 TABLE 601	0 HOURS 0 HOURS	0 HOURS 0 HOURS
	MISC MET	MISCELLANEOUS METAL	TLT TRTD	TOILET TREATED		4. FLOOR CONSTRUCTION 5. ROOF CONSTRUCTION	TABLE 601 TABLE 601	0 HOURS 0 HOURS	0 HOURS 0 HOURS
	ML	METAL LATH	TYP	TYPICAL		OTHER ELEMENTS			
NCY GENERATOR	MLDG	MOLDING	UNO		ED OTHERWISE	1. SHAFT ENCLOSURES	707	N/A	
T FAN IR INSULATION & FINISH SYSTEM	MLP MO	METAL LATH AND PLASTER MASONRY OPENING	VAT VCT	VINYL ASBES VINYL COMPO		2. EXIT ENCLOSURES	1020.1	N/A	
ON	MOD	MOTOR OPERATED DAMPER	VEND	VENDING MA					
CAL	MTG	MOUNTING	VERT	VERTICAL					
DR CE	N NA	NORTH NOT APPLICABLE	VIF VTR	VERIFY IN F VENT THRU					
E PROPYLENE DIENE MONOMER	NB	NORTH BOUND	W	WEST					
A	NIC	NOT IN CONTRACT	WI W/Z	WIDE					
NT	NO NRC	NUMBER NOISE-REDUCTION COEFFICIENT	W/ W/O	WITH WITHOUT					
WATER COOLER	NTS	NOT TO SCALE	WBD	WALLBOARD					
r	OA OC	OVERALL	WC WD	WATER CLOS	ΈT				
ON	OC OD	ON CENTER OUTSIDE DIAMETER	WD WDR	WOOD WOOD DOOR					
ON JOINT	OFF	OFFICE	WH	WATER HEAT					
R	OH	OPPOSITE HAND	WTRPRF	WATERPROOF					FOR INFORMATION
ΤΕ	OHDR OPNG	OVERHEAD DOOR OPENING	WWF XFMR	WELDED WIR TRANSFORME					ONLY (BY OTHERS)
	OPP	OPPOSITE	232 IV(I)						· · · · · · · · · · · · · · · · · · ·
									A–1
ADDENDUMS / REVISIONS		I					CONTRACT		SHEE
		———————————————————————————————————————			11	5 301		BRIDGE NO.	
							T200811301		- AKCHITECTURAL   81
		I		I	ΜΔΡΥΓΛΝΓ	STATE LINE		DESIGNED BY: DRF	I FGENDS SYMBOLS
						) STATE LINE ELS ROAD	COUNTY	DESIGNED BY: DRE CHECKED BY: JRS	AND ABBREVIATIONS

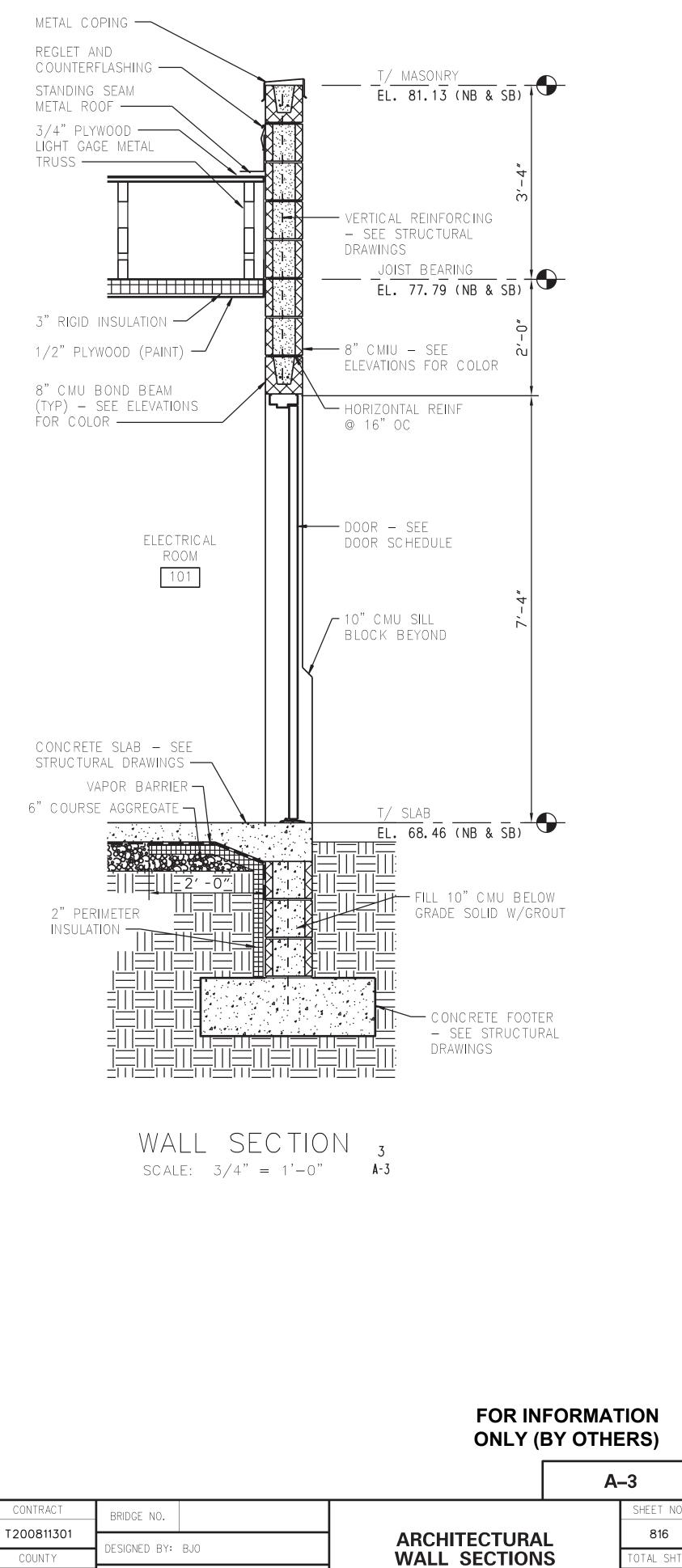
US	301	
MARYLAND	STATE	LINE
TO LEVE	LS ROA	١D





DELAWARE **DEPARTMENT OF TRANSPORTATION** 

NS	110.004	CONTRACT
		T200811301
	MARYLAND STATE LINE	COUNTY
	TO LEVELS ROAD	NEW CASTLE



CHECKED BY: JRS

OTAL SHTS 850

GENERAL	STRUCTURAL	NOTES:

<u>GENERAL</u>

- 1. THE STRUCTURE IS DESIGNED TO ACT AS A STRUCTURAL UNIT UPON COMPLETION. CONTRACTOR SHALL DESIGN AND PROVIDE NECESSARY BRACING, TEMPORARY SUPPORTS, AND SHORING TO RESIST FORCES, INCLUDING UPLIFT, ON THE STRUCTURE DURING CONSTRUCTION.
- 2. WORK SHALL BE COORDINATED WITH THE VARIOUS TRADES TO AVOID CONFLICT OR INTERFERENCE WITH REINFORCING STEEL OR STRUCTURAL STEEL MEMBERS.
- 3. THE LOCATION OF ALL AERIAL FACILITIES SHALL BE IDENTIFIED IN THE FIELD BEFORE CONSTRUCTION COMMENCES AND PSE&G PROXIMITY REQUIREMENTS ADHERED TO.

DESIGN CRITERIA

1. APPLICABLE CODES AND SPECIFICATIONS IBC 2006 W/ NEW CASTLE COUNTY CODE ASCE 7-05, MINIMUM BUILDING LOADS - AS APPLICABLE AISC 360-05, MANUAL OF STEEL CONSTRUCTION - LOAD AND RESISTANCE FACTOR DESIGN ACI 318-05, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY

<u>GANTRY NOTES:</u>

- PROVIDE MATERIALS AND WORKMANSHIP IN THE ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, ANSI/AASHTO/AWS/D1.5-2002 BRIDGE WELDING CODE AND CONTRACT SPECIAL PROVISIONS. USE ANSI/AWS/D1.1-2002 FOR WELDING NOT COVERED IN ANSI/AASHTO/AWS/D1.5-2002.
- 2. DESIGN SPECIFICATIONS: AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS 2009, 5TH EDITION.
- 3. ALL DIMENSIONS SHOWN ARE HORIZONTAL, EXCEPT AS NOTED.
- 4. USE CLASS A CEMENT CONCRETE I'C = 3000 PSIIN PEDESTALS AND FOOTINGS.
- 5. CHAMFER EXPOSED CONCRETE EDGES 1" X 1" EXCEPT AS NOTED.
- 6. PROVIDE A MINIMUM OF 2" CONCRETE COVER ON REINFORCEMENT BARS, EXCEPT AS NOTED.
- 7. PROVIDE GRADE 60 REINFORMENT BARS THAT MEET THE REQUIREMENTS OF ASTM A615/A 615-96A FOR CONCRETE REINFORCEMENT. DO NOT WELD REINFORCEMENT BARS.
- 8. USE UNCOATED REINFORCEMENT BARS.
- 9. PROVIDE MINIMUM LAP AND EMBEDMENT LENGTH OF 20 DIAMETERS OR IN ACCORDANCE WITH AASHTO.
- 10. PROVIDE ANCHOR BOLT HOLES 1/4" LARGER THAN BOLT DIAMETER FOR BASE PLATE. PROVIDE BOLT HOLES 1/6" LARGER THAN BOLT DIAMETER FOR ANCHOR PLATE.
- 11. USE TEMPLATES TO ACCURATELY SET BASE PLATE ANCHOR BOLTS TO CORRECT ELEVATION AND ALIGNMENT. SECURELY BRACE ANCHOR BOLTS AGAINST DISPLACEMENT BEFORE PEDESTAL CONCRETE IS PLACE AND DURING CONCRETE CURING.
- 12. GROUT PADS SHALL NOT BE USED. BASE PLATES AND EXPOSED ANCHOR BOLTS SHALL BE PLACED SO RUN-OFF AND/OR RAIN WATER CANNOT RUN ONTO OR POND AT THIS AREA.
- 13. PROVIDE DOUBLE NUTS AND WASHERS FOR EACH ANCHOR BOLT.
- 14. GALVANIZED HIGH STRENGTH BOLTS SHALL CONFORM TO AASHTO M164/ASTM A325.
- 15. GALVANIZED HEAT TREATED NUTS SHALL CONFORM TO AASHTO M292/ASTM A1494 OR AASHTO M291/ASTM A563 GRADE 2H, DH. GALVANIZED HARDENED STEEL WASHERS SHALL CONFORM TO AASHTO M293/ASTM F436.
- 16. GALVANIZED ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM F1554 GRADE 55.
- 17. FOOTINGS WILL BE POURED AGAINST FILL COMPACTED TO 98% RELATIVE MAXIMUM DENSITY OR ON UNDISTURBED MATERIAL.
- 18. DIVERT ALL SURFACE RUNOFF AWAY FROM EXCAVATIONS. PERFORM ALL EXCAVATIONS IN ACCORDANCE WITH OSHA REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SUFFICIENT DEWATERING SO THAT EXCAVATIONS ARE DRY ENOUGH FOR INSPECTION AND CONSTRUCTION.
- 19. COORDINATE, LOCATE AND CONDUCT ALL WORK RELATED TO PUBLIC AND PRIVATE UTILITIES IN ACCORDANCE WITH DELDOT UTILITIES MANUAL.
- 20. VERIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO STARTING WORK. CONDUCT OPERATIONS IN A MANNER WHICH ENSURES THAT THE UTILITIES WILL NOT BE DISTURBED OR ENDANGERED, AND ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE TO UTILITIES DURING CONSTRUCTION. THE DEPARTMENT DOES NOT ASSUME RESPONSIBILITY FOR REIMBURSEMENT, PARTICIPATION IN DESIGN AND/OR REVISIONS, OR LIABILITY FOR ACCURACY OF TYPE, SIZE AND LOCATION OF ANY UTILITY.

Ø	ΑΤ
AL. OR ALUM.	ALUMINUM
APPROX.	APPROXIMATE
B/B	ΒΑϹΚ ΤΟ ΒΑϹΚ
BOTT.	BOTTOM
B/	BOTTOM OF
BTWN	BETWEEN
CJ	CONSTRUCTION JOINT
C/C	CENTER TO CENTER
CIR	CIRCULAR
Ę	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT	CONTINUOUS
DIA.	DIAMETER
EA.	EACH
EF	EACH FACE
EL OR ELEV	ELEVATION
EMBED.	EMBEDMENT
EQ.	EQUAL
EQUIP.	EQUIPMENT
EW	EACH WAY
EXIST	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
FD	FLOOR DRAIN
FIN.	FINISHED
FLR.	FLOOR
FT	FEET
FTG.	FOOTING
HORIZ.	HORIZONTAL
HP	HIGH POINT
I. D.	INSIDE DIAMETER
INT.	INTERIOR
JT.	JOINT
KSF	THOUSAND POUNDS PER S

NS			100
		US 301	Т20
		MARYLAND STATE LINE	C(
		TO LEVELS ROAD	
	1		NEW

## STRUCTURAL ABBREVIATIONS

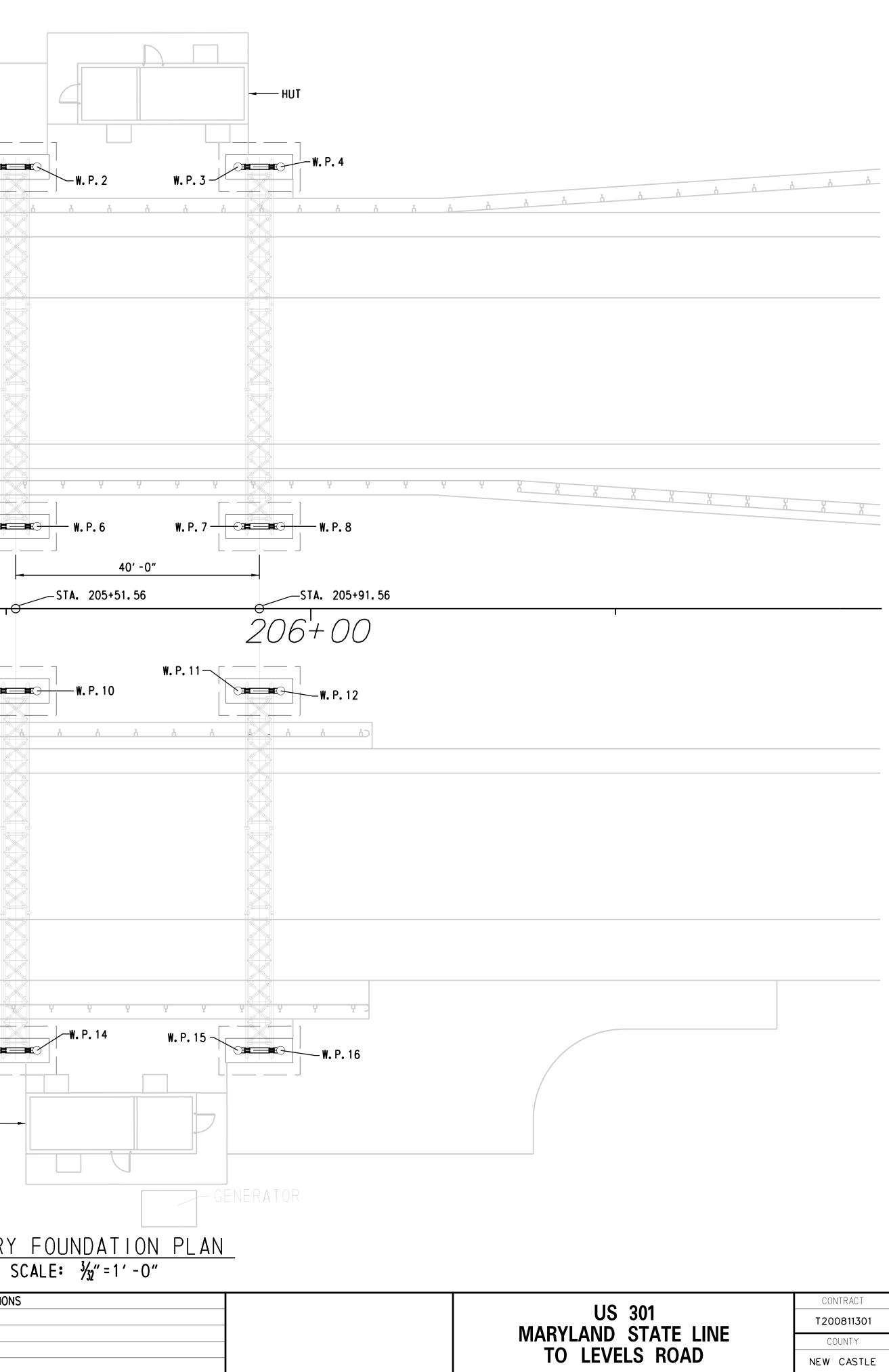
LG.	LONG
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
MAX.	MAXIMUM
MIN.	MINIMUM
NO.	NUMBER
N. T. S.	NOT TO SCALE
0/C	ON CENTER
0.D.	OUTSIDE DIAMETER
OPP.	OPPOSITE
Æ	PLATE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
R	RISER
RAD.	RADIUS
REINF.	REINFORCEMENT
REQ'D	REQUIRED
SC	SLIP CRITICAL
SCH	SCHEDULE
SF	SQUARE FOOT
SIM	SIMILAR
SPA.	SPACES
SQ.	SQUARE
S <b>.</b> S <b>.</b>	STAINLESS STEEL
ST	STRUCTURAL TUBE
STD <b>.</b>	STANDARD
Τ	TREAD
T&B	TOP AND BOTTOM
T/	TOP OF
TYP.	TYPICAL
U. N. O.	UNLESS NOTED OTHERWISE
W/	WITH
WWF	WELDED WIRE FABRIC

SQUARE FOOT

ONTRACT	BRIDGE NO.				SHEET NO.
200811301			STRUCTURAL		817
.00811301	DESIGNED BY:	٨B	GENERAL NOTE	S	617
COUNTY	DESIGNED DI.	AD	& ABBREVIATIO	_	TOTAL SHTS.
V CASTLE	CHECKED BY:	CAM		NO NO	850

ST-01

	W. P. 1 —
"0 -	
ບS 301 SB	
	C <u>Y</u> Y
3, - 5,	W. P. 5 —
ېنې 205'+00	
- - -	W. P. 9
US 301 NB	
- 0, 29, - 0,	
	U U 0
Y Y Y Y Y Y Y Y Y Y Y Y Y Y	<u> </u>
	W. P. 13 -
	HUT -
	GAN
	ADDENDUMS / RE
DELAWARE DEPARTMENT OF TRANSPORTATION	



- Z
Ľ

WORKING POINT COORDINATES				
WORKING POINTS	NORTHING	EASTING	STATION	OFFSET
W.P. 1	517595.9129	573133.8094	205+48.06	72.50 LT.
W.P. 2	517602.6524	573135.7013	205+55.06	72.50 LT.
W.P. 3	517634.4243	573144.6204	205+88.06	72.50 LT.
W.P. 4	517641.1637	573146.5123	205+95.06	72.50 LT
W.P. 5	517579.9667	573190.6136	205+48.06	13.50 LT.
W.P. 6	517586.7062	573192.5055	205+55.06	13.50 LT.
W.P. 7	517618.4780	573201.4246	205+88.06	13.50 LT.
W.P. 8	517625.2175	573203. 3165	205+95.06	13.50 LT.
W.P. 9	517572.6715	573216.6005	205+48.06	13.50 RT.
W.P. 10	517579.4110	573218.4925	205+55.06	13.50 RT.
W.P. 11	517611.1829	573227.4116	205+88.06	13.50 RT.
W.P. 12	517617.9223	573229.3035	205+95.06	13.50 RT.
W.P. 13	517556.7253	573273.4047	205+48.06	72.50 RT.
W.P. 14	517563.4648	573275.2967	205+55.06	72.50 RT.
W.P. 15	517595.2366	573284.2158	205+88.06	72.50 RT.
W.P. 16	517601.9761	573286.1077	205+95.06	72.50 RT.

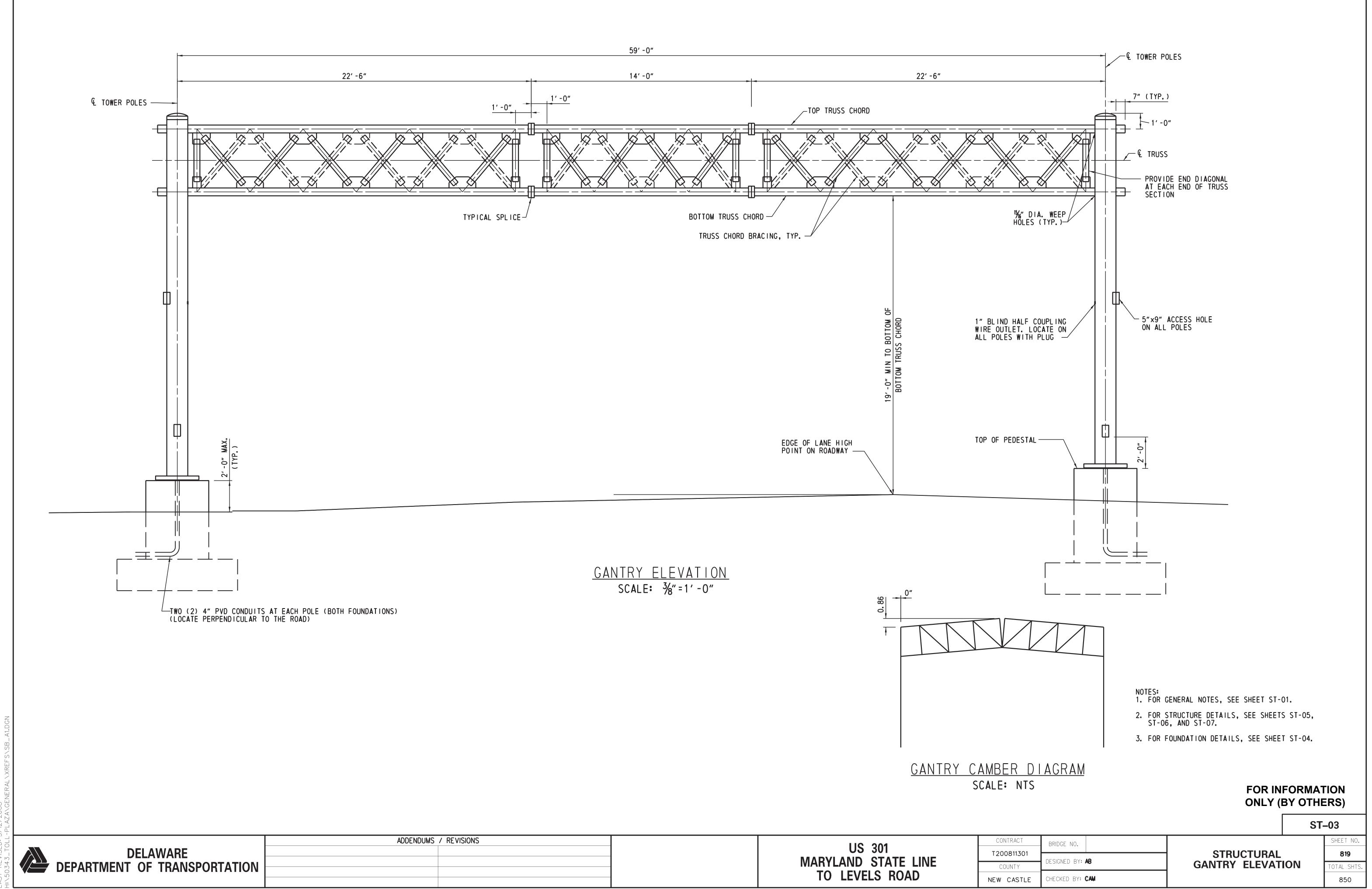
NOTES: 1. FOR GENERAL NOTES, SEE SHEET ST-01. 2. FOR FOUNDATION DETAILS, SEE SHEET ST-04.

TRACT	BRIDGE NO.	CTRUCTURAL
0811301		STRUCTURAL
011301	DESIGNED BY: AB	GANTRY FOUNDATION
UNTY		PLAN
CASTLE	CHECKED BY: CAM	

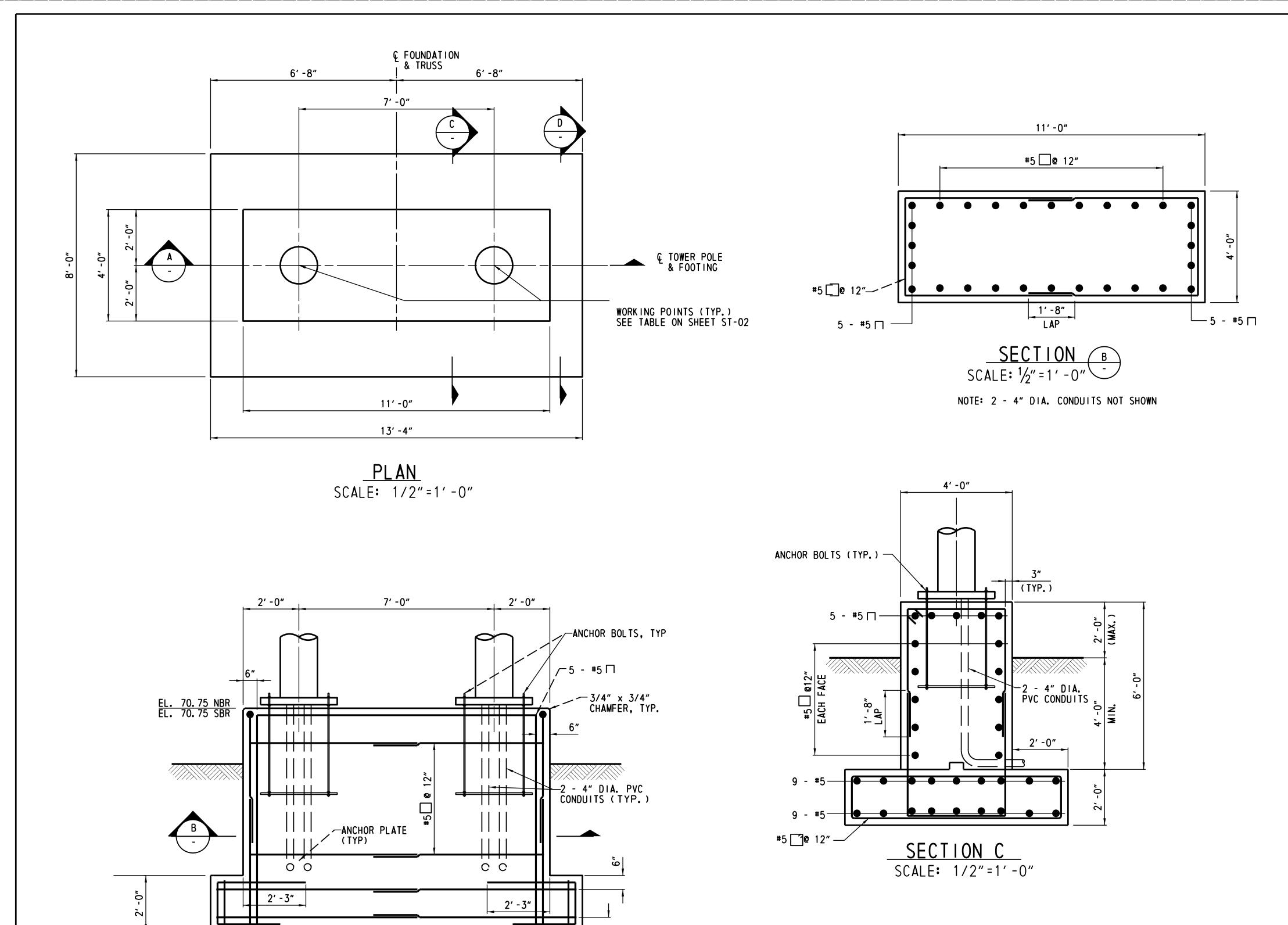
ST-02
-------

SHEET NO. 818

fotal shts



5	110 004	C
	US 301	Т2
	MARYLAND STATE LINE	
	TO LEVELS ROAD	``````````````````````````````````````
		NEW







6″\_\_\_\_

11"

2' - 3"

ADDENDUMS / REVISION

11"

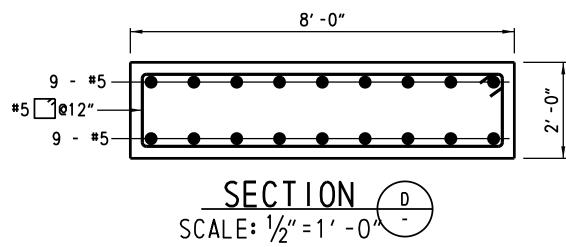
2' - 3"

" 0

6"

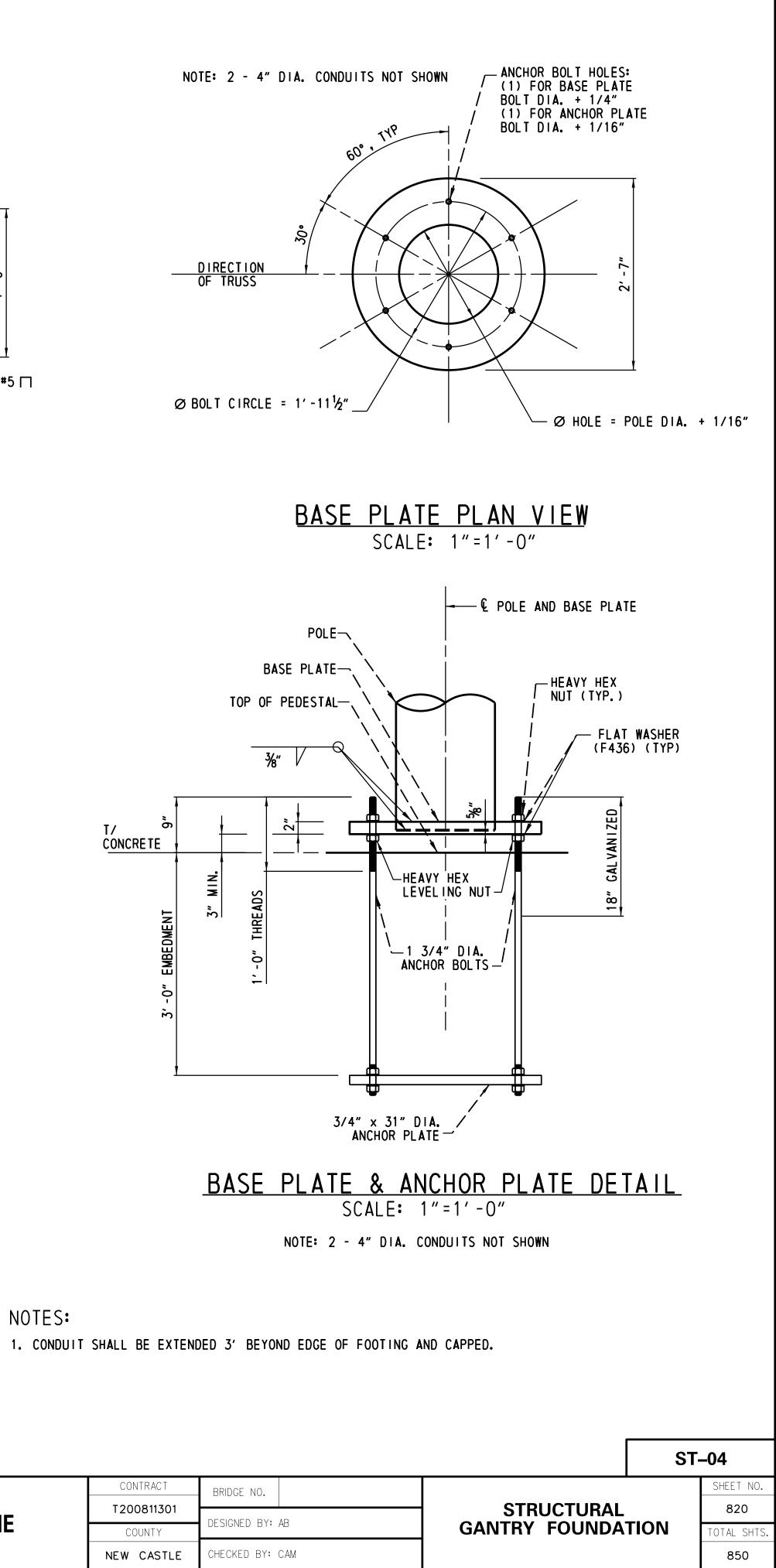
**#**5 🗌 @ 12"

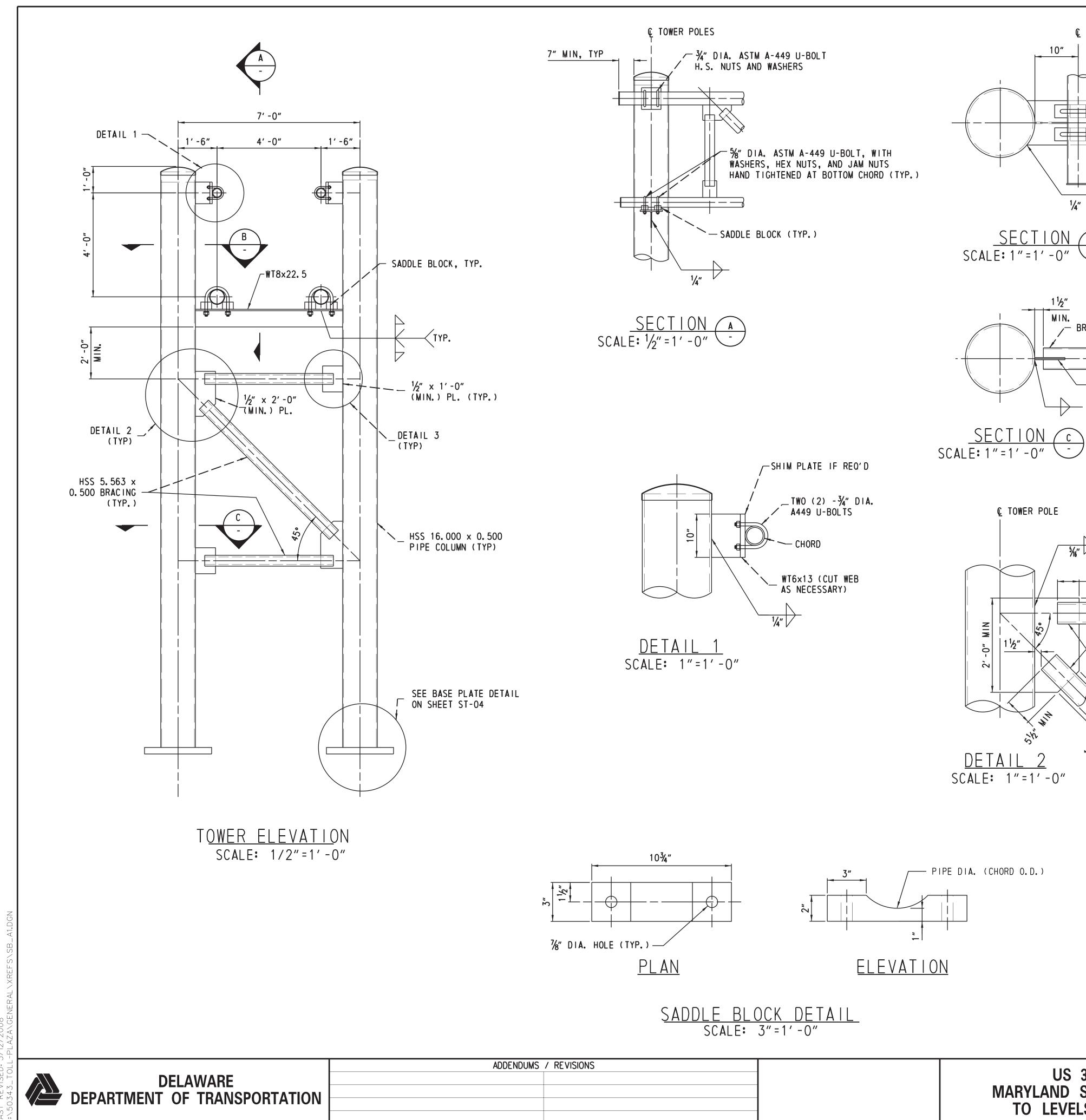
SCALE: 1/2" = 1' - 0"

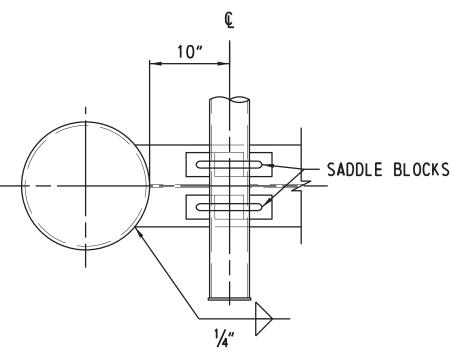


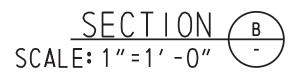


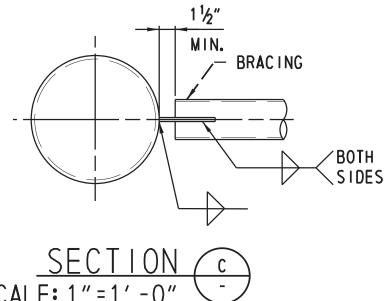
S	110 001	(
	US 301	Т
	MARYLAND STATE LINE	
	TO LEVELS ROAD	
		NE

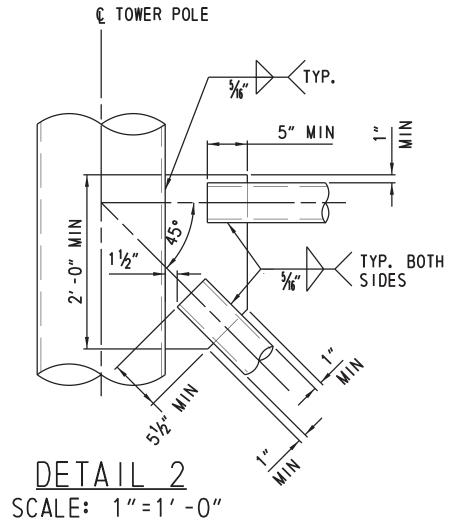




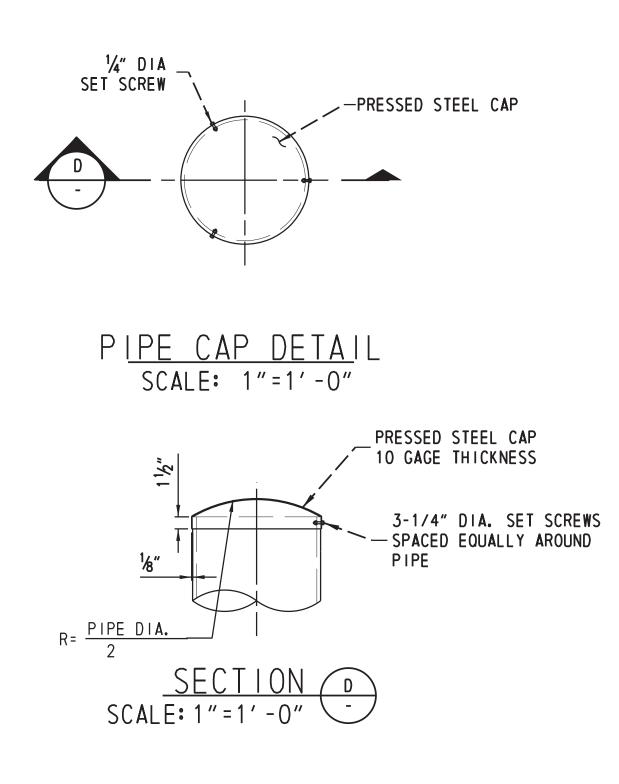


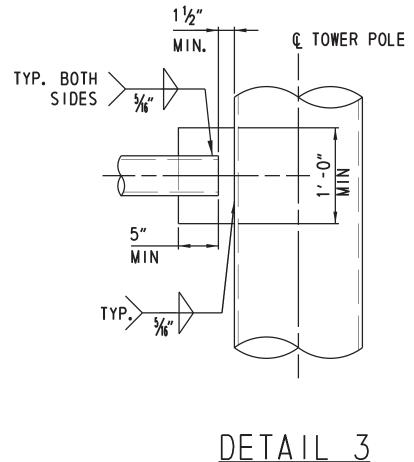






|--|





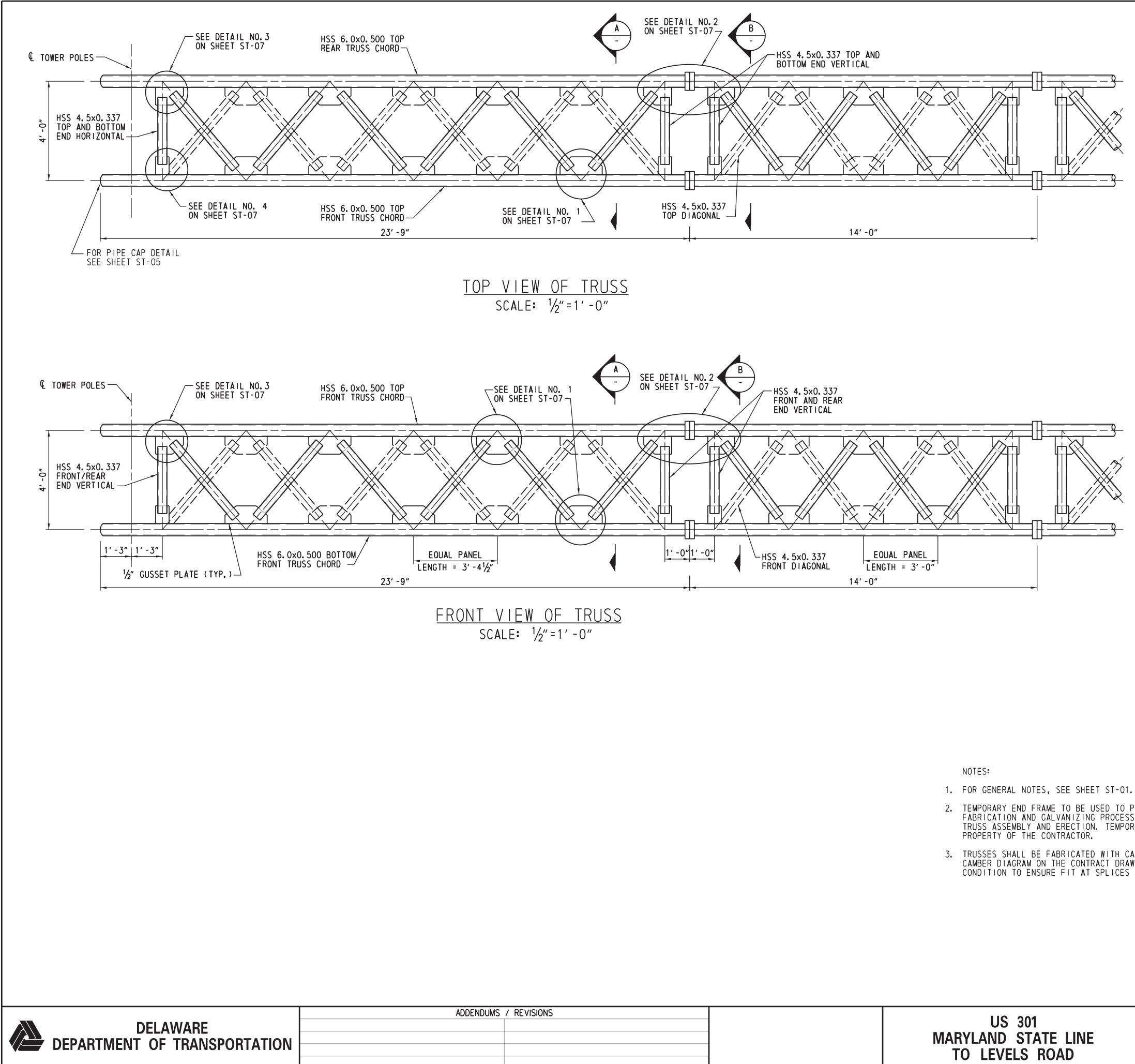
NOTES:

- 1. FOR GENERAL NOTES, SEE SHEET ST-01.
- 2. FOR BASE PLATE, ANCHOR BOLT AND ANCHOR PLATE DETAILS, SEE SHEET ST-04,
- 3. FOR COPE HOLE DETAILS, SEE SHEET ST-07.
- 4. TO PREVENT INTERSECTING FILLET WELDS ON OPPOSITE SIDES OF COMMON PLANE, PROVIDE A WELD "HOLDBACK" AT THE EDGE OF THE GUSSET PLATE IN THE BRACING MEMBERS EQUAL TO THE MINIMUM WELD SIZE REQUIRED. ENSURE MINIMUM TOTAL WELD LENGTHS ARE ACHIEVED.

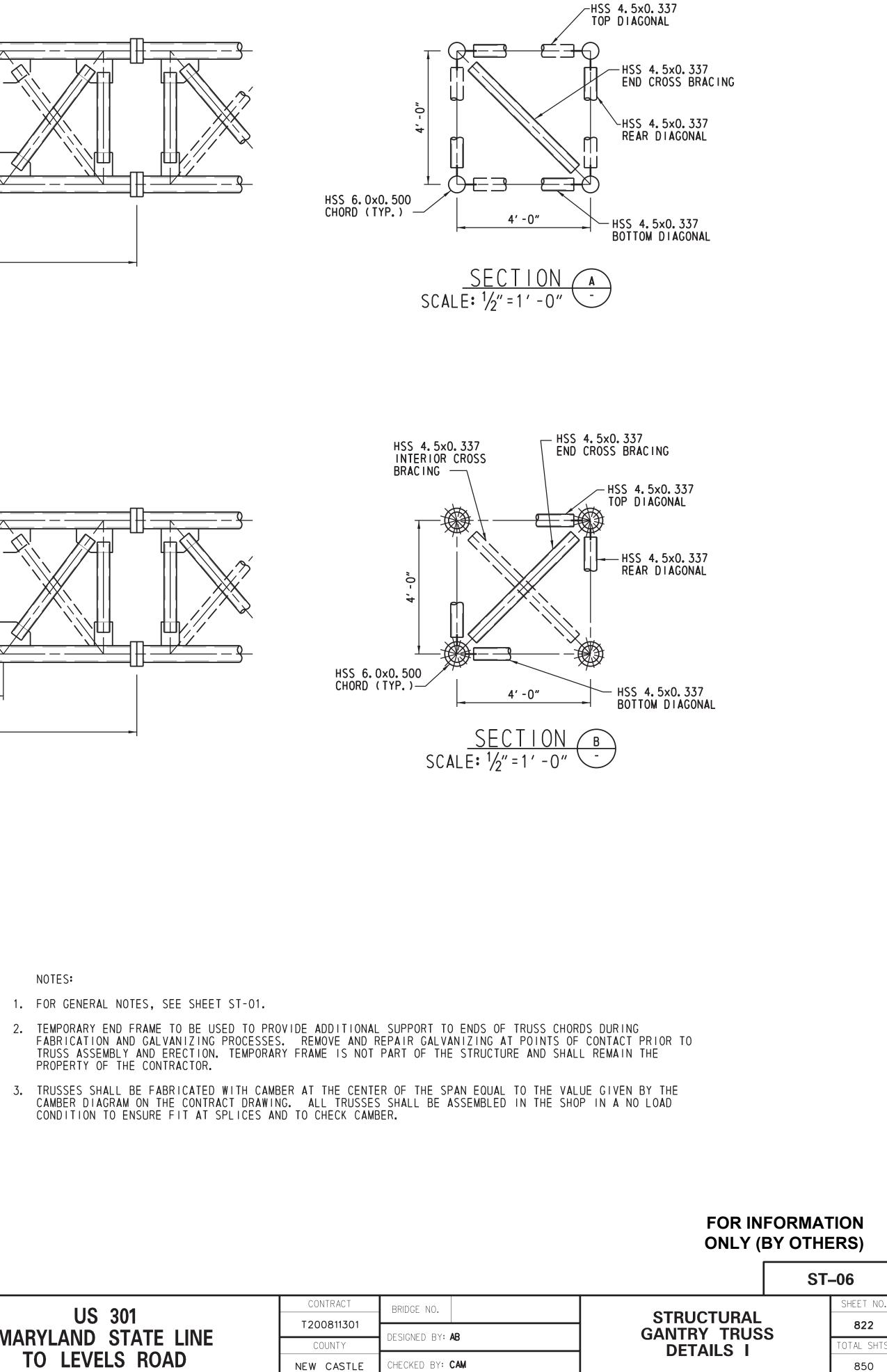
FOR INFORMATION
ONLY (BY OTHERS)

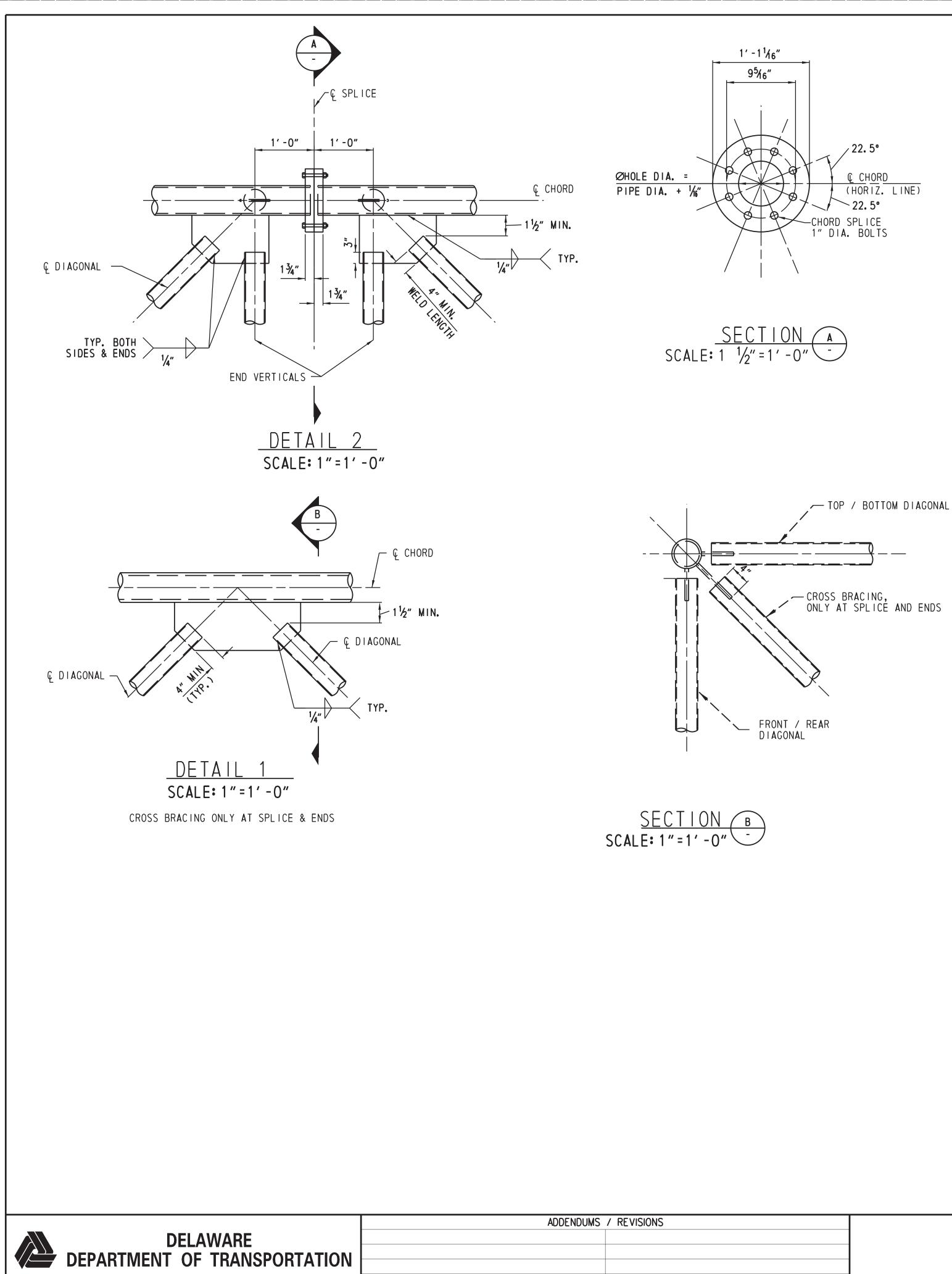
SHEET N

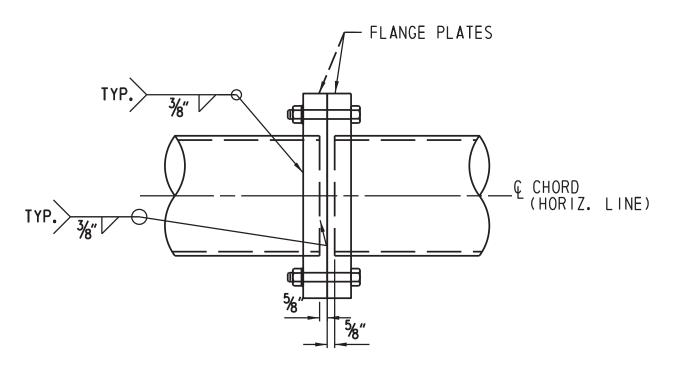
821



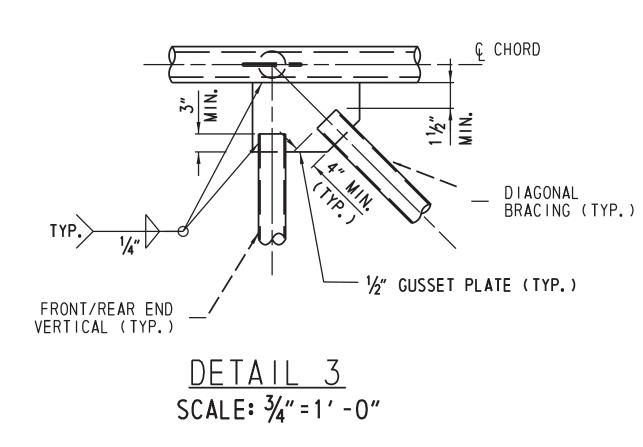
S	110.001	(
	US 301	T2
	MARYLAND STATE LINE	
	TO LEVELS ROAD	NE



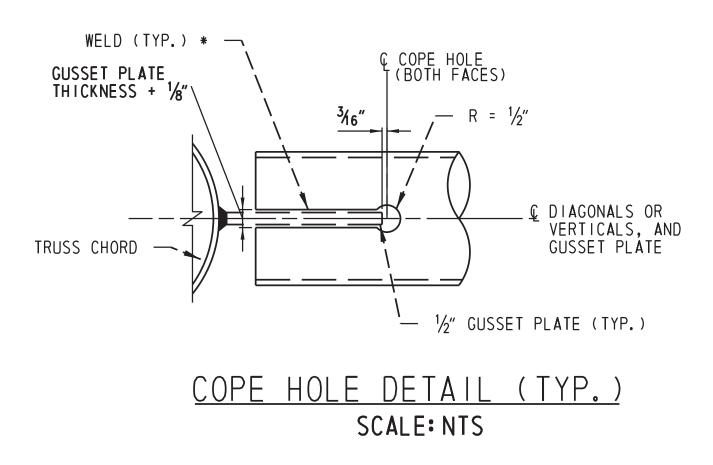




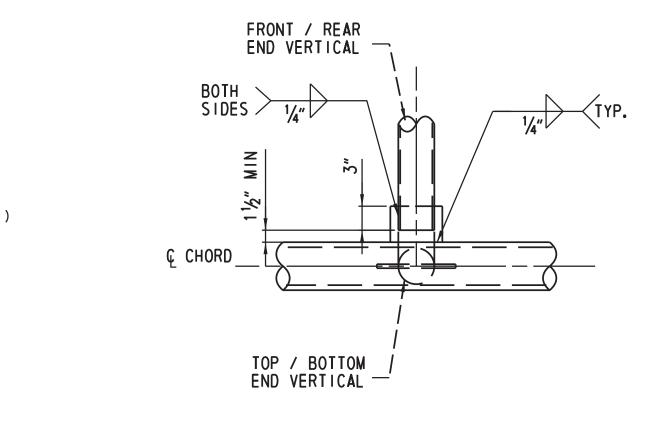




NS	110 004	C
	US 301	Т2
	MARYLAND STATE LINE	(
	TO LEVELS ROAD	NEW



\* - PROVIDE A WELD "HOLDBACK" AT THE EDGE OF THE GUSSET PLATE IN THE BRACING MEMBER EQUAL TO THE MINIMUM WELD SIZE REQUIRED.



DETAIL 4 SCALE: 1"=1'-0"

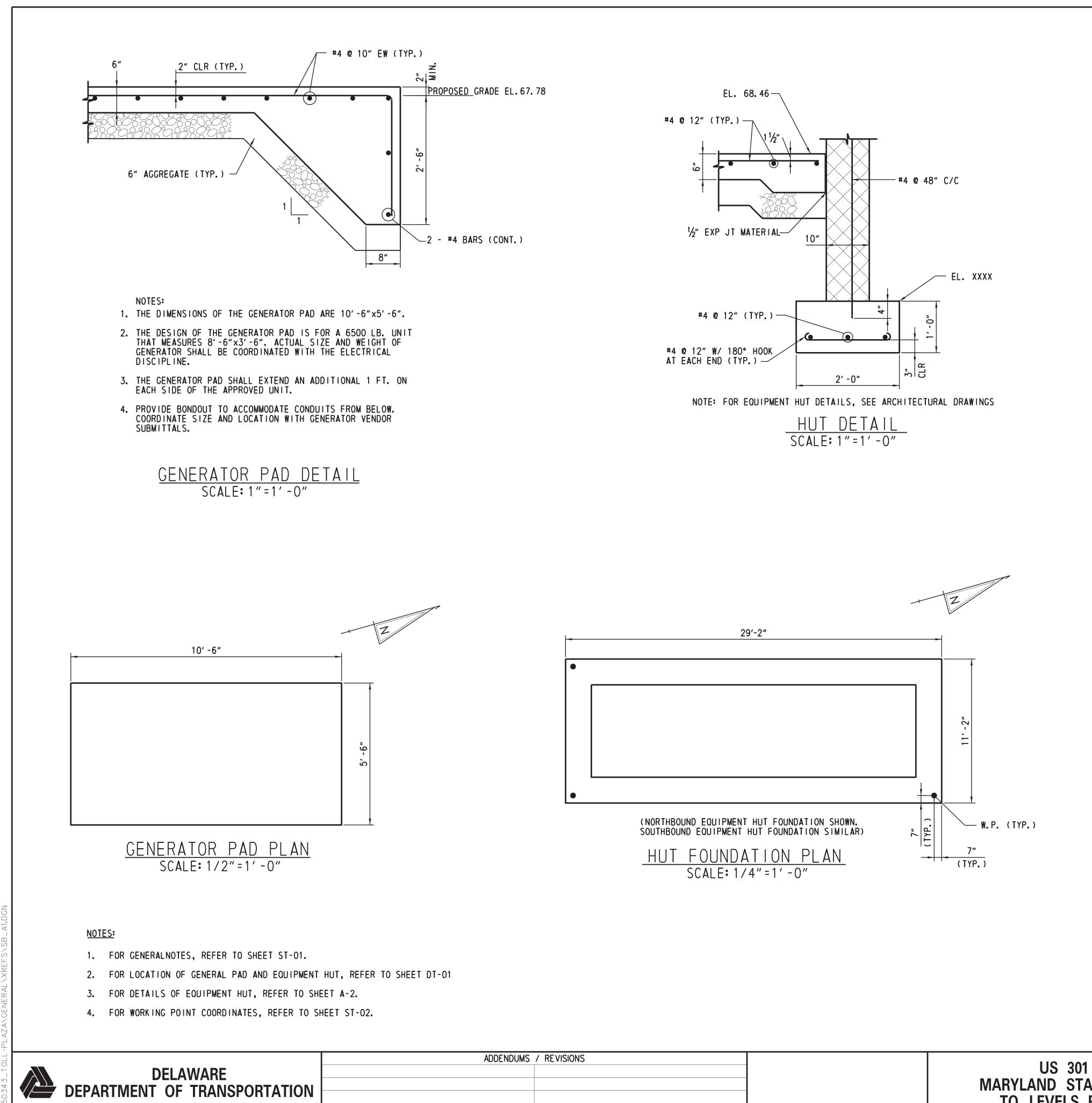
NOTES:

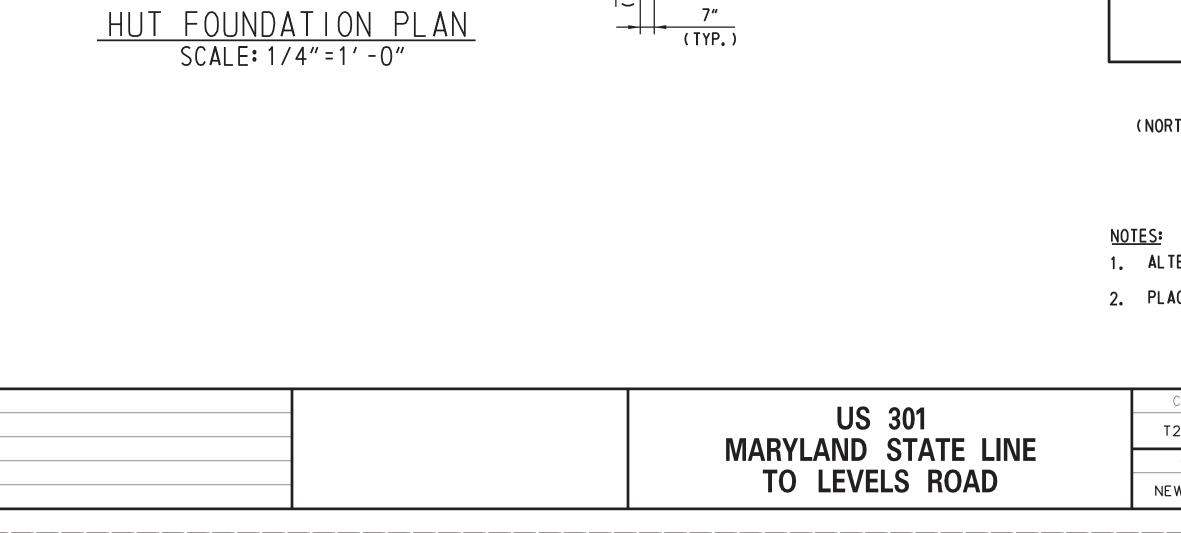
- 1. FOR GENERAL NOTES, SEE SHEET ST-01.
- 2. CHORD SPLICE BOLTS SHALL BE ASTM A325 HIGH STRENGTH STEEL BOLTS, HOLES IN SPLICE PLATE SHALL BE 1/16" LARGER THAN BOLT DIAMETER.
- 3. ASTM A325 SPLICE BOLTS SHALL BE HEAVY HEXAGON TYPE AND SHALL BE FURNISHED WITH HEAVY HEXAGON NUTS AND WASHER.
- 4. THE THREADED PORTION OF THE SPLICE BOLTS SHALL BE EXCLUDED FROM THE SHEAR PLANE OF THE SPLICE.
- 5. TO PREVENT INTERSECTING FILLET WELDS ON OPPOSITE SIDES OF COMMON PLANE, PROVIDE A WELD "HOLDBACK" AT THE EDGE OF THE GUSSET PLATE IN THE BRACING MEMBERS EQUAL TO THE MINIMUM WELD SIZE REQUIRED. ENSURE MINIMUM TOTAL WELD LENGTH ARE ACHIEVED.

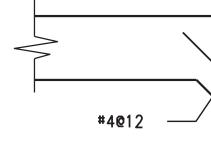
### FOR INFORMATION **ONLY (BY OTHERS)**

**ST 07** 

			51-07
CONTRACT	BRIDGE NO.		SHEET NO.
200811301			023
COUNTY	DESIGNED BY: AB	GANTRY TRUS	TOTAL SHTS.
W CASTLE	CHECKED BY: CAM	DETAILS II	850











	1.5t
2" RIGID PERIMETER INSULATION AND VAPOR BARRIER (SEE ARCH. DRAWINGS FOR DETAILS) 6" AGGREGATE (TYP.)	
THICKENED SLAB ED scale: nts	<u>GE</u>
	LL
#4@12	
3-#4 1'-0" T 1'-0"	<u> </u>
T + 2' -0"	
THICKENED SLAB AT MASONR	Y WALLS
SCALE: NTS	<u>I WALLJ</u>
	Z
13' - 4"	9' -0"
CONTRACTION JOINT	-THICKENED SLAB
	õ
(NORTHBOUND EQUIPMENT HUT SLAB SHOWN. SOUTHB	DUND EQUIPMENT HUT SLAB SIMILAR)
HUT SLAB PLAN	
SCALE: 1/4"=1'-0"	
<ol> <li>ALTERNATE BARS SHALL BE STOPPED 2" ON BOTH</li> <li>PLACE 1" DEEP SAW CUT CONTRACTION JOINT.</li> </ol>	FOR INFORMATION JOINT. FOR INFORMATION ONLY (BY OTHERS)
	ST-08
CONTRACT BRIDGE NO.	SHEET NO. 824
T200811301       COUNTY         DESIGNED BY:	MISC. STRUTURES SECTIONS AND DETAILS
NEW CASTLE CHECKED BY: CAM	850

ABBREVIA (NOT ALL	ABBREVIATIONS MAY		
	ON THESE CONTRACT		
ABV	ABOVE	ET	EXPANSI
AC	AIR COMPRESSOR	EUH	ELECTRIC
ACCU	AIR COOLED CONDENSING UNIT	EWT	ENTERIN
ACU	AIR CONDITIONING UNIT	EXP	EXPANSI
AD	ACCESS DOOR	*F	DEGREES
AFF	ABOVE FINISHED FLOOR	FA	
AFR	ABOVE FINISHED ROOF	FB	FROM B
AHU	AIR HANDLING UNIT	FC	FLEXIBLE
AP	ACCESS PANEL	FCU	FAN COL
APD APPROX.	AIR PRESSURE DROP	FCV	FLOW CO
APPROX.	APPROXIMATE	FD	FIRE DA
AS	AIR SEPERATOR	FIN	FINISHEL
ATC	AUTOMATIC TEMPERATURE CONTROL	FL	FLANGE
AUTO	AUTOMATIC	FLA	FULL LO
AVG	AVERAGE	FLEX	FLEXIBLE
AVS	AIR VOLUME MEASUREMENT STATION	FLR	FLOOR
AWT	AVERAGE WATER TEMPERATURE	FM	FLOW M
BCU	BUILDING CONTROL UNIT	FO	FAIL OPE
BDD	BACK DRAFT DAMPER	FOB	FLAT ON
BFP	BACK FLOW PREVENTOR	FOT	FLAT ON
BG	BLAST GATE	FP	FIRE PR
BLDG	BUILDING	FPB	FAN POI
BOL	BOTTOM OF LOUVER	FPM	FEET PE
BOD	BOTTOM OF DUCT/BASIS OF DESIGN	FPS	FEET PE
BOI	BOTTOM OF INSULATION	FS	FLOW S
BOT	BOTTOM	FT	FEET, FL
BTU	BRITISH THERMAL UNIT	FTR	FIN TUB
BTUH	BRITISH THERMAL UNIT PER HOUR	FV	FACE VE
CA	COMPRESSED AIR	GA	GAUGE
CAP	CAPACITY	GAL	GALLON
CAV	CONSTANT AIR VOLUME	GALV	GALVANI
CBV	CIRCUIT BALANCING VALVE	GC	GENERAL
CC	COOLING COIL	GPD	GALLONS
CD	CEILING DIFFUSER\CONDENSATE DRAIN	GPH	GALLONS
CFM	CUBIC FEET PER MINUTE	GPM	GALLONS
CH	CHILLER	GRD	GROUND
CHP	CONCRETE HOUSEKEEPING PAD	GRS/LB	GRAINS
CHWS	CHILLED WATER SUPPLY	GUH	GAS FIR
CHWR	CHILLED WATER RETURN	Н	HUMIDIFI
CI	CAST IRON	HC	HEATING
CLG	CEILING	HD	HEAD (F
CMU	CONCRETE MASONARY UNIT	HOA	HAND OI
CO	CLEAN OUT	HORIZ.	HORIZON
COL	COLUMN	HP	HORSEP
COMP	COMPRESSOR	HRU	HEAT RE
CONC	CONCRETE	HWHC	
COND	CONDENSATE	HWS	HOT WAT
CONN	CONNECTION	HWR	HOT WAT
CONTD	CONTINUED	HVAC	HEATING
CONV	CONVECTOR	HVU	HEATING
COP	COEFFICIENT OF PERFROMANCE	HX	HEAT EX
CT	COOLING TOWER	HZ	HERTZ
CU	CONDENSING UNIT	H20	WATER
CUH	CABINET UNIT HEATER	ID	INSIDE D
CV	CONSTANT AIR VOLUME BOX	IN	INCHES
CVS	CONTROL VALVE STATION	INFO	INFORMA
CW	COLD WATER	IN WG	INCHES
D	DAMPER	INV	INVERT
DDC DEPT	DIRECT DIGITAL CONTROL DEPARTMENT	IPLV	INTEGRA
DIA	DIAMETER	KE	KITCHEN
DIAG	DIAGRAM	KEH	KITCHEN
DIFF	DIFFERENTIAL	KW	KILOWAT
DISC	DISCONNECT	L	LENGTH
DIV	DIVISION	LAT	LEAVING
DIW	DOWN IN WALL	LBG	LINEAR
DL	DOOR LOUVER	LBS	POUNDS
DN	DOWN	LBS/HR	POUNDS
DWG	DRAWING	LD	LINEAR
DX	DIRECT EXPANSION	LDB	LEAVING
DPI DPT	DIFFERENTIAL PRESSURE INDICATOR	LIN	LINEAR
-	DIFFERENTIAL PRESSURE TRANSMITTER	LRA	LOCKED
	EXISTING	LVR	LOUVER
EA	EACH OR EXHAUST AIR	LWB	LEAVING
EAT	ENTERING AIR TEMPERATURE	LWT	LEAVING
EAV	EXHAUST AIR VALVE	М	MOTOR
ECC	ECCENTRIC	MAU	MAKE UI
EDB	ENTERING DRY BULB	MAX	MAXIMUN
EDH	ELECTRIC DUCT HEATER	MB	MIXING E
EER	ENERGEY EFFICIENCY RATING	MBH	THOUSAI
EF	EXHAUST FAN	MC	MECHAN
EG	EXHAUST GRILLE	MD	MOTORIZ
EL	ELEVATION	MED	MEDIUM
ELEC	ELECTRIC	MER	MECHAN
EQ	EQUAL	MFR	MANUFA
EQUIP	EQUIPMENT	MIN	
ER ES	EXHAUST REGISTER END SWITCH	MISC	MISCELL
ESP	EXTERNAL STATIC PRESSURE		

SION TANK MOD RIC UNIT HEATER N/A NG WATER TEMPERATURE NG SION NC NEG ES FAHRENHEIT ABOVE NIC BELOW No NO E CONNECTION NOM OIL UNIT CONTROL VALVE NTS AMPER/FLOOR DRAIN OA OAI OAT ОС OAD AMPS OCC OD ODP METER PEN PC IN BOTTOM PD N TOP PERF ROTECTION PNEU OWERED BOX POS PRV PER MINUTE PER SECOND PS PSA SWITCH PSI FLASH TANK BE RADIATION PSIG PT /ELOCITY PVC RA RD IIZED L CONTRACTOR RF RG VS PER DAY VS PER HOUR RH VS PER MINUTE RHC RL PER POUND RLA RM RED UNIT HEATER RPM FIER RR IG COIL RS PRESSURE IN FEET RTU OFF AUTO SWITCH RV NTAL POWER SA SAV RECOVERY UNIT SCH ATER HEATING COIL SD TER SUPPLY SF TER RETURN G VENTILATION AND AIR CONDITIONING SG IG AND VENTILATION UNIT SHT SP XCHANGER SPEC SQ DIMENSION SR SRV ATION SS ST IN WATER COLUMN SW PATED PART LOAD VALUE SUCT SUP N EXHAUST SYS N EXHAUST HOOD TAD TEMP TF IG AIR TEMPERATURE TG BAR GRILLE ΤK ΤP S PER HOUR TRAN DIFFUSER IG DRY BULB TEMPERATURE TS TYP ROTOR AMPS UΗ VAC IG WET BULB TEMPERATURE VAV IG WATER TEMPERATURE VD VEL JP AIR UNIT VERT VFD VTR BOX ANDS OF BTU PER HOUR W VICAL CONTRACTOR WB ZED DAMPER WG WH NICAL EQUIPMENT ROOM WPD WT ACTURER LANEOUS 2 POS

DELAWARE **DEPARTMENT OF TRANSPORTATION**  ADDENDUMS / REVISIONS

MODULATING NOT APPLICABLE NATURAL GAS NORMALLY CLOSED NEGATIVE NOT IN CONTRACT NUMBER NORMALLY OPEN NOMINAL NOT TO SCALE OUTSIDE AIR OUTSIDE AIR INTAKE OUTSIDE AIR TEMPERATURE ON CENTER OCCUPIED\* OUTSIDE DIMENSION OPEN DRIP PROOF PLUMBING CONTRACTOR PRESSURE DROP PERFORATED PNEUMATIC POSITIVE PRESSURE REDUCING VALVE PRESSURE SWITCH PRIMARY SUPPLY AIR POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH VALVE PRESSURE TRANSMITTER POLYVINYL CHOLORIDE RETURN AIR ROOF DRAIN RETURN FAN RETURN GRILLE RELATIVE HUMIDITY REHEAT COIL REFRIGERANT LIQUID RATED LOAD AMPS ROOM REVOLUTIONS PER MINUTE RETURN REGISTER REFRIGERANT SUCTION ROOFTOP AIR HANDLING UNIT RELIEF VALVE SUPPLY AIR SUPPLY AIR VALVE SCHEDULE SMOKE DAMPER SUPPLY FAN SUPPLY GRILLE SHEET STATIC PRESSURE SPECIFICATION SQUARE SUPPLY REGISTER SAFETY RELIEF VALVE STAINLESS STEEL SOUND TRAP SWITCH SUCTION SUPPLY SYSTEM THERMOSTAT TRANSFER AIT DUCT TEMPERATURE TRANSFER FAN TRANSFER GRILLE TANK TOTAL PRESSURE TRANSITION TEMPERATURE SWITCH TYPICAL UNIT HEATER VACUUM VARIABLE AIR VOLUME VOLUME DAMPER VELOCITY VERTICAL VARIABLE FREQUENCY DRIVE VENT THRU ROOF WIDTH WET BULB WATER GAUGE WATER HEATER WATER PRESSURE DROP WEIGHT VARIABLE TWO POSITION

PIPING ELEMENTS/VALVES (NOT ALL ELEMENTS MAY APPEAR ON THESE CONTRACT DOCUMENTS) GLOBE VALVE — PLUG VALVE, GAS COCK BUTTERFLY VALVE <u>k</u>− GATE VALVE, ANGLE GLOBE VALVE, ANGLE THREE WAY CONTROL VALVE TWO WAY CONTROL VALVE S PRESSURE REDUCING VALVE (PRV) SV COMBINATION STRAINER AND SHUT OFF VALVE WITH PETES PLUGS COMBINATION FLOW CONTROL FV VALVE AND SHUT OFF VALVE WITH PETES PLUGS CIRCUIT BALANCING VALVE -TEMPERATURE/PRESSURE RELIEF VALVE FLEXIBLE CONNECTION PIPE GUIDE \_\_\_\_\_\_<sup>\_</sup> ----- AUTOMATIC FILL VALVE MANUAL AIR VENT AV AUTOMATIC AIR VENT (EXTEND DISCHARGE TO DRAIN) DIRECTION OF FLOW ---- DIRECTION OF SLOPE STRAINER VALVE -BFP BACK-FLOW PREVENTOR ------O PIPE RISING UP -) PIPE DROPPING DOWN - TEE OUTLET DOWN ECCENTRIC REDUCER →II-- UNION - SCREWED OR FLANGED \_\_\_\_\_A PIPE ANCHOR E EXPANSION JOINT AQUASTAT ELECTRICALLY TRACED PIPING - W HEXPANSION LOOP (WxH) PRESSURE / TEMPERATURE TEST STATION THERMOMETER

<u>DUCTWORK</u> (NOT ALL CC APPEAR ON DOCUMENTS DOUBLE LINE FLEXIBLE DUCTWOR F NEW DUCTWORK -<u>- 20X12 -</u> SIZE INDICATED INC ALLOWANCE FOR A LINING WHERE APP RADIUS ELBOW VANED ELBOW BRANCH DUCT TAK RISE OR DROP DIRECTION OF AIR FLOW **← → ⊠ →** DIFFUSER SIZE CFM CEILING  $\square$ **RETURN/EXHAUST** SIZE CFM REGISTER (R) OR GRILLE (G) SUPPLY AIR GRILL SUPPLY AIR REGIS SIZE LAL CFM RETURN AND/OR SIZE CFM EXHAUST AIR GRIL OR REGISTER (R) VOLUME DAMPER —\_\_\_\_ *SD* SMOKE DAMPER —\_\_\_\_ *FD* FIRE DAMPER W  $----_{FSD}$ FIRE & SMOKE DA  $M \rightarrow / \rightarrow /$ MOTORIZED DAMPE CENTRIFUGAL FAN С DOME FAN AXIAL FAN AIR VOLUME MEA  $\overline{}$ THERMOSTAT (H)HUMIDISTAT S SMOKE DETECTOR UNDERCUT — U → <u>\_\_\_\_\_</u> 12X12 DOOR LOUVER CEILING MOUNTED  $\square$ GRILLE OR REGIST  $\boxtimes$ DIFFUSER, 4-WAY BLOW  $\mathbf{X}$ DIFFUSER, 3-WAY BLOW

US 301 MARYLAND STATE LINE TO LEVELS ROAD

MONITOR

MONITOR

CARBON DIOXIDE

-----

00

*C02* 

COMPONENTS MAY		REFERENCE SYMBOL	
N THESE CONTRACT		APPEAR ON THESE	
57	<u>SINGLE LINE</u>	DOCUMENTS)	
		(SEE	POWERED EQUIPMENT SCHEDULE)
RK			PMENT IDENTITY ABBREVIATION NAL CELL
DUCT ICLUDES	20X12		NAL CELL ' RATE
ACOUSTIC PLICABLE		EQUIPMEN	NT POWERED WITH
	1	LINE VOL	TAGE
			ENT IDENTITY ABREVIATION
	I		ENT NUMBER
			NUMBER (IF APPLICABLE) S DETAIL LETTER
	I	(APPLIES	S ONLY WHERE
KE-OFF			S DRAWINGS) S DRAWING ON WHICH APPEARS
-			S SECTION NUMBER
NECK			S ON WHICH DRAWING APPEARS
CFM			S REVISION & NUMBER
T TYPE -		ELEVATIO	ON REFERENCE
- NECK		$\mathbf{O}$	T NEW TO EXISTING
CFM		DEMOLITI	TION POINT OF ION
LE (G) OR ISTER (R)	I		T TO MANUFACTURER'S
TYPE			CHASED EQUIPMENT
NECK		X SHEET N	NOTE NUMBER (SN)
CFM	1		
LLE (G) - TYPE			
NECK		LINE DESIGNATION	<u>VS</u>
CFM		(NOT ALL LINETY)	
? W / LOCKING QUA	DRANT	APPEAR ON THE DOCUMENTS)	SE CUNTRACT
W / AD		CD	CONDENSATE DRAIN
		<i>D</i>	DRAIN
DAMPER W / AD PER (OPPOSED BLAL	DF)	——— EA ———	EXHAUST AIR
	<i>/_/</i>	—— <i>HWS</i> ——	HOT WATER SUPPLY
N		—— <i>HWR</i> ——	HOT WATER RETURN
		NG	NATURAL GAS
		——— RA ———	RETURN AIR
		RL	REFRIGERANT LIQUID
ASUREMENT STATION	,	<i>RS</i>	REFRIGERANT SUCTION
		SA	SUPPLY AIR
-		_PPP	VENDOR PROVIDED EQUIIP
R		<u> </u>	LOW VOLTAGE WIRING
ס			
STER			

DIFFUSER, 2-WAY BLOW

DIFFUSER, 1-WAY BLOW

LINEAR DIFFUSER

GAS CONCENTRATION

### FOR INFORMATION **ONLY (BY OTHERS)**

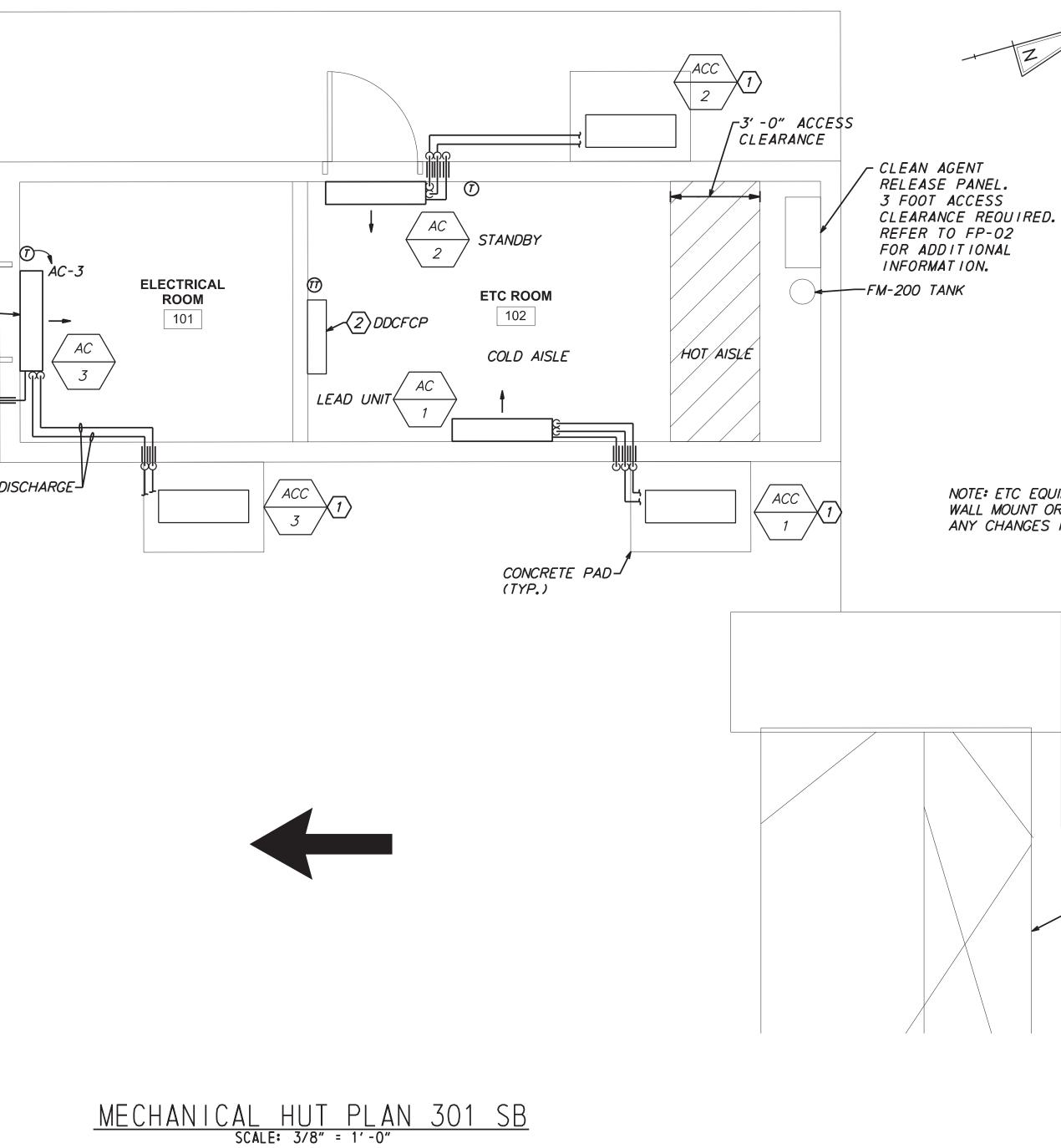
M–01

CONTRACT	BRIDGE NO.		SHEET NO.
T200811301		MECHANICAL	825
1200811301	DESIGNED BY: CLG	SYMBOLS, ABBREVIATIONS	025
COUNTY	DESIGNED DT. CEG	-	TOTAL SHTS.
NEW CASTLE	CHECKED BY: DWF	& GENERAL NOTES	850

NOMINAL 2-1/2" TON DUCTLESS SPLIT SYSTEM HEAT PUMP. 40" W X 13" H X 9" D, WALL MOUNTED. BOTTOM OF UNIT APPROX. 7'-3" ABOVE FLOOR. (TYP. 3) 1" CONDENSATE DRAIN. REFER TO-DETAIL 2/M-04 FOR CONDENSATE PIPING CONNECTION AT AC UNIT (TYP.) REFRIGERANT PIPING 5%" SUCTION, 3%" DISCHARGE SUPPORTED OFF WALL (TYP.)

# DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS



5		CONTRACT	BRIDGE NO.
	US 301	T200811301	
	MARYLAND STATE LINE	COUNTY	DESIGNED BY: CLG
	TO LEVELS ROAD		
		NEW CASTLE	CHECKED BY: DWF

<u>GENERAL NOTES:</u> 1. SEE ARCHITECTURAL DWG. A-1 FOR GENERAL NOTES.

### <u>SHEET NOTES:</u>

(1) REFER TO SCHEDULE ON DWG. M-04 FOR ADDITIONAL HEAT PUMP SYSTEM INFORMATION.

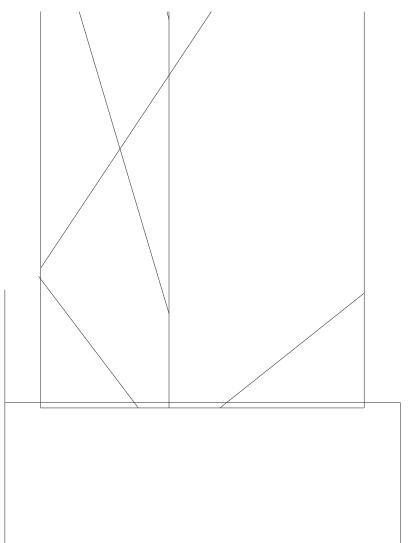
 $\langle 2 \rangle$ SEE DWG. M-04 FOR ADDITIONAL INFORMATION.

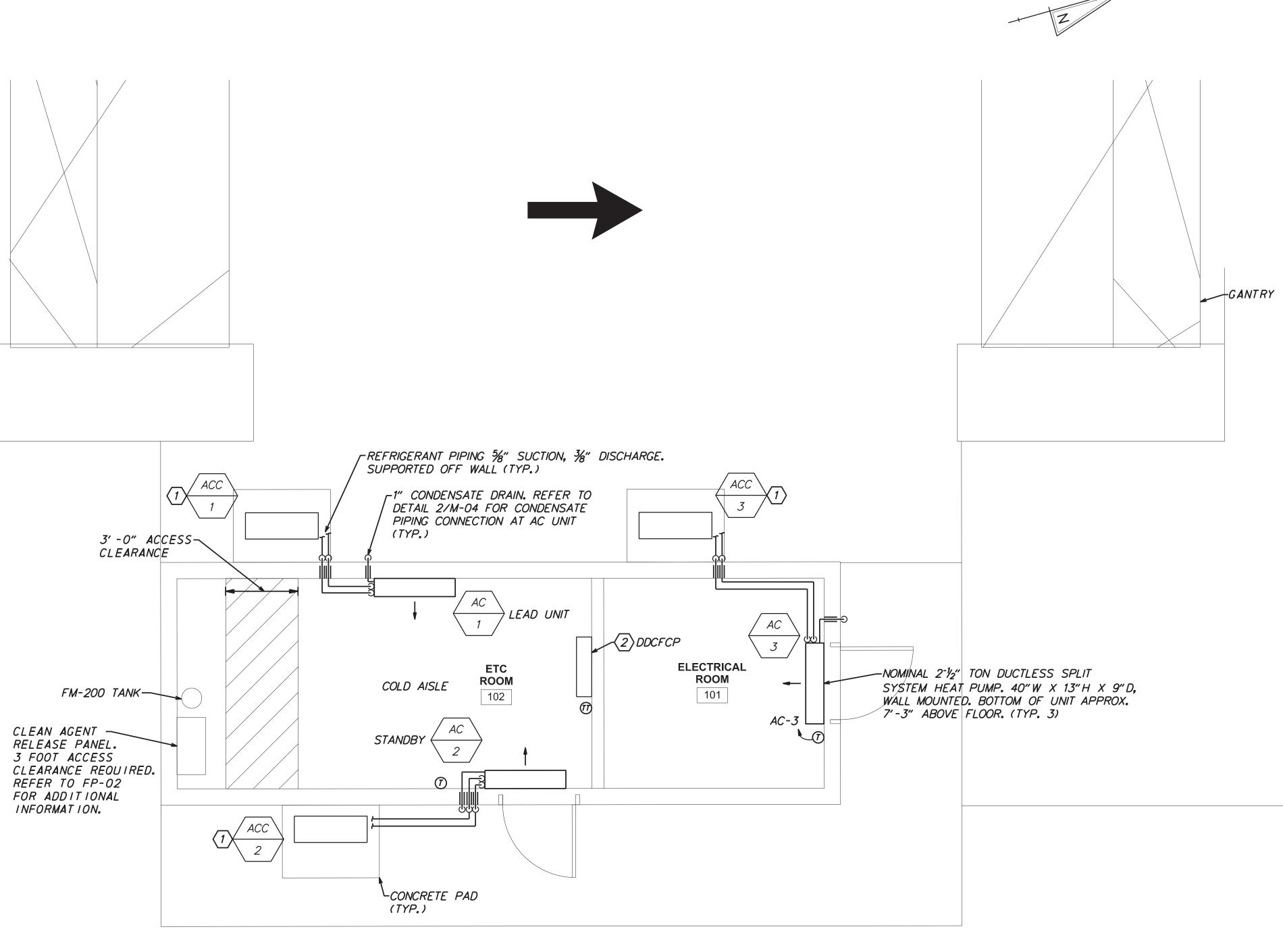
NOTE: ETC EQUIPMENT TO BE SUPPLIED BY OTHERS. WALL MOUNT OR OTHER SOLUTIONS MAY BE UTILIZED. ANY CHANGES MUST BE APPROVED BY THE ETC CONTRACTOR.

-GANTRY

	IFORMATION (BY OTHERS)				
	M-02				
		SHEET NO.			
MECHANICAL HUT PLAN		826			
301 SB		TOTAL SHTS.			

850





NOTE: ETC EQUIPMENT TO BE SUPPLIED BY OTHERS. WALL MOUNT OR OTHER SOLUTIONS MAY BE UTILIZED. ANY CHANGES MUST BE APPROVED BY THE ETC CONTRACTOR.



DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

MECHANICAL HUT PLAN 301 NB scale: 3/8" = 1'-0"

S	110 001	CONTRACT
	US 301	T200811301
	MARYLAND STATE LINE	COUNTY
	TO LEVELS ROAD	NEW CASTLE

### <u>GENERAL NOTES:</u>

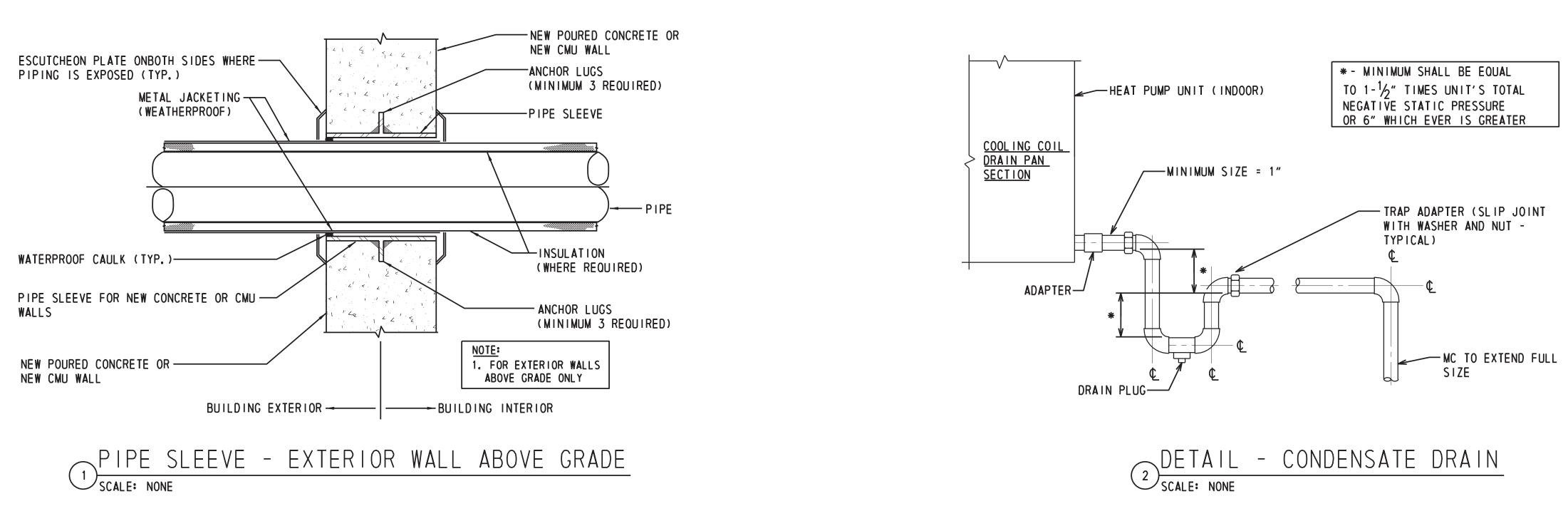
1. SEE ARCHITECTURAL DWG. A-1 FOR GENERAL NOTES.

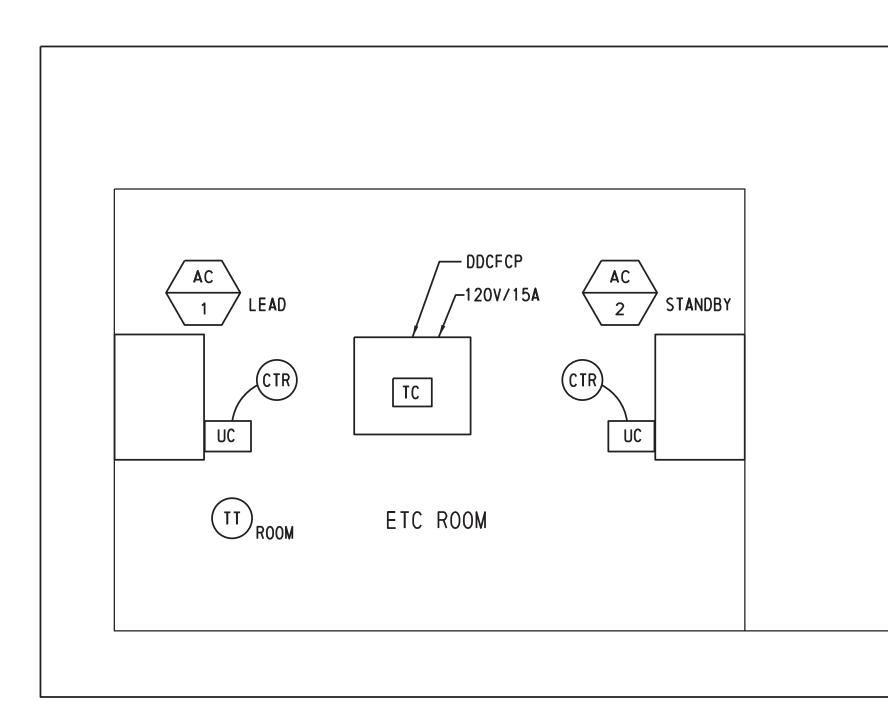
### <u>SHEET NOTES:</u>

(1) REFER TO SCHEDULE ON DWG. M-04 FOR ADDITIONAL HEAT PUMP SYSTEM INFORMATION.

(2) SEE DWG. M-04 FOR ADDITIONAL INFORMATION.

			FORMAT BY OTHE	
			M-	-03
BRIDGE NO.		МЕСНАЛІСАІ		SHEET NO. 827
DESIGNED BY: (	CLG	HUT PLAN		
CHECKED BY: I	DWF	301 NB		850



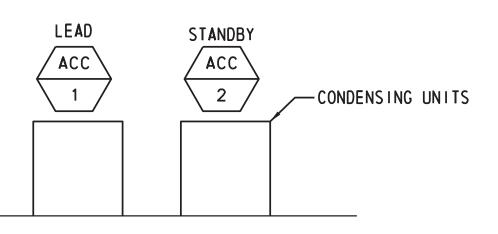


			INDOOR UNIT	DATA				OUTDOOR UNIT DATA			ELECTRICAL	DATA				
UNIT TAG	NOMINAL COOLING (MBH)	NOMINAL HEATING (MBH)	MAX AIRFLOW (CFM)	OA (CFM)	DIMENSIONS H/W/D (IN.)	WEIGHT (LBS.)	FAN RPM (CLG/HTG)	DIMENSIONS H/W/D (IN.)	WEIGHT (LBS.)	MAX AMPS HEATING	MAX AMPS COOLING	VOLTS	PHASE	HERTZ	MANUFACTURER/MODEL	REMARKS
AC-1/ACC-1	30	32	695	-	12-5/8 / 39-1/4 / 9	31	850/850	32-3/4 / 35-3/8 / 13	137	18.5	17	208	1	60	FUJITSU / 30 RLX	SEE NOTES 1 & 2
AC-2/ACC-2	30	32	695	-	12-5/8 / 39-1/4 / 9	31	850/850	32-3/4 / 35-3/8 / 13	137	18.5	17	208	1	60	FUJITSU / 30 RLX	SEE NOTES 1 & 2
AC-3/ACC-3	30	32	695	-	12-5/8 / 39-1/4 / 9	31	850/850	32-3/4 / 35-3/8 / 13	137	18.5	17	208	1	60	FUJITSU / 30 RLX	SEE NOTE 1
DTES:																

		ADDENDUMS / REVISIONS		110.004	T
	DELAWARE		-	US 301	Т
DEPARTMENT OF TRANSPORTATION		-	MARYLAND STATE LINE		
				TO LEVELS ROAD	NE

ETC ROOM TEMPERATURE CONTROL SEQUENCE

- 1. ON A RISE IN SPACE TEMPERATURE ABOVE 80°F OR ON A DROP SPACE TEMPERATURE BELOW 50°F (ADJUSTABLE), THE SELECTED LEAD HEAT PUMP UNIT (AC/ACC) SHALL BE ENERGIZED. SPACE TEMPERATURE SENSOR/TRANSMITTER SHALL CYCLE UNIT TO MAINTAIN SETPOINT TEMPERATURE.
- 2. ON A FAILURE OF THE LEAD UNIT TO START, THE STANDBY UNIT SHALL START. AN EQUIPMENT FAILURE ALARM SHALL BE ANNUNCIATED LOCALLY. PROVISIONS SHALL BE MADE FOR REMOTE ALARM ANNUNCIATION IN THE FUTURE.



	SYMBOL LIST	
TT	TEMPERATURE SENSOR AND TRANSMITTER	
	UNIT CONTROLLER (BY OEM)	
CTR	CURRENT TRANSFORMER RELAY	
ITC	TEMPERATURE CONTROLLER PROVIDED BY ATC	
TC	CONTRACTOR PARAGON: PART NUMBER PC 12931	
DDCFCP	DDC FIELD CONTROL PANEL ENCLOSURE BY ATC	
	CONTRACTOR. 110V WITH 24VDC TRANSFORMER,	
	PARAGON: A1008CHOR W/ A10P8 BACKPLATE	
	PARAGON: A1008CHOR W/ A10P8 BACKPLATE	

# 3 ETC ROOM TEMPERATURE CONTROL DIAGRAM/SYMBOLS/NOTES

GENERAL CONTROL NOTES:

- .ALL CONTROL COMPONENTS SHALL BE FIELD MOUNTED AND WIRED, EXCEPT FOR UNIT CONTROLLERS UC.
- 2. TEMPERATURE SENSORS (TT) SHALL BE CAPABLE OF PROVIDING A TEMPERATURE SIGNAL TO REMOTE BUILDING MANAGEMENT SYSTEM IN THE FUTURE.
- 3. DDCFCP SHALL INCLUDE FLUSHMOUNT LOCAL DISPLAYS INDICATING: SETPOINT, TEMPERATURE DISPLAY; LOCAL "SYSTEM START", "HAND, OFF, AUTO" AND MANUAL ON" SWITCHES WITH OPTIONAL REMOTE CONNECTIONS.

LEAD UNIT SHALL BE SELECTABLE FROM DDCFCP.

			FORMA1 BY OTHE	-
			M-	-04
ONTRACT	BRIDGE NO.			SHEET NO.
00811301		MECHANICAL		828
COUNTY	DESIGNED BY: CLG	DETAILS & SCHED	ULES	TOTAL SHTS.
CASTLE	CHECKED BY: CLG			850

	VALVE	SYMBOLS
--	-------	---------

### <u>PIPING ELEMENT SYMBOLS</u>

—— FM-200 —— FM-200 PIPING

○ FM-200 RELEASE NOZZLE



ADDENDUMS / REVISIONS

DEVICE SY	<u>(MBOLS</u>
$\Box \triangleleft$	ALARM HORN AND STROBE
$R \triangleleft$	RELEASE HORN AND STROBE
AB	MANUAL ABORT SWITCH
M	MANUAL PULL STATION
S	SMOKE DETECTOR
FCO	FUSED CUT-OUT

110 001	CONTRACT	BRIDGE NO.		SHEET NO.
US 301	T200811301		FIRE PROTECTION	829
MARYLAND STATE LINE	COUNTY	DESIGNED BY: MLW	SYMBOLS, ABBREVIATIONS	TOTAL SHTS.
TO LEVELS ROAD	NEW CASTLE	CHECKED BY: DWF	& GENERAL NOTES	850

### <u>GENERAL NOTES</u>

1. SEE ARCHITECTURAL DRAWING FOR GENERAL NOTES.

2. LEGENDS, SYMBOLS, NOTES AND ABBREVIATIONS SHOWN ON THIS DRAWING PERTAIN TO FIRE PROTECTION DRAWINGS ONLY.

3. COORDINATE WITH OTHER CONTRACTORS FOR CUTTING AND PATCHING OF ALL OPENINGS, EQUIPMENT PADS, PIPE SLEEVES, ETC.

4. PROVIDE OPENINGS THROUGH CONSTRUCTION AND SLEEVES AS REQUIRED.

5. PROVIDE ALL NECESSARY TEMPORARY OR PERMANENT CAPS OR PLUGS FOR PIPING. DO NOT LEAVE PIPING OPEN ENDED.

6. ENTIRE INSTALLATION SHALL MEET THE REQUIREMENTS OF THE FOLLOWING: A. NFPA 2001 - ALL APPLICABLE CHAPTERS B. OWNER'S INSURANCE COMPANY C. LOCAL AND STATE REGULATIONS

7. MAKE ALL NECESSARY SUBMISSIONS AND OBTAIN ALL NECESSARY PERMITS AND APPROVALS, INCLUDING ENGINEER'S APPROVAL PRIOR TO STARTING FABRICATION AND CONSTRUCTION.

8. REFER TO ARCHITECTURAL DRAWINGS FOR ROOM LAYOUTS, ROOM DIMENSIONS, CEILING HEIGHTS, BUILDING CONSTRUCTION, AND OTHER ARCHITECTURAL AND STRUCTRAL DETAILS IMPACTING DESIGN.

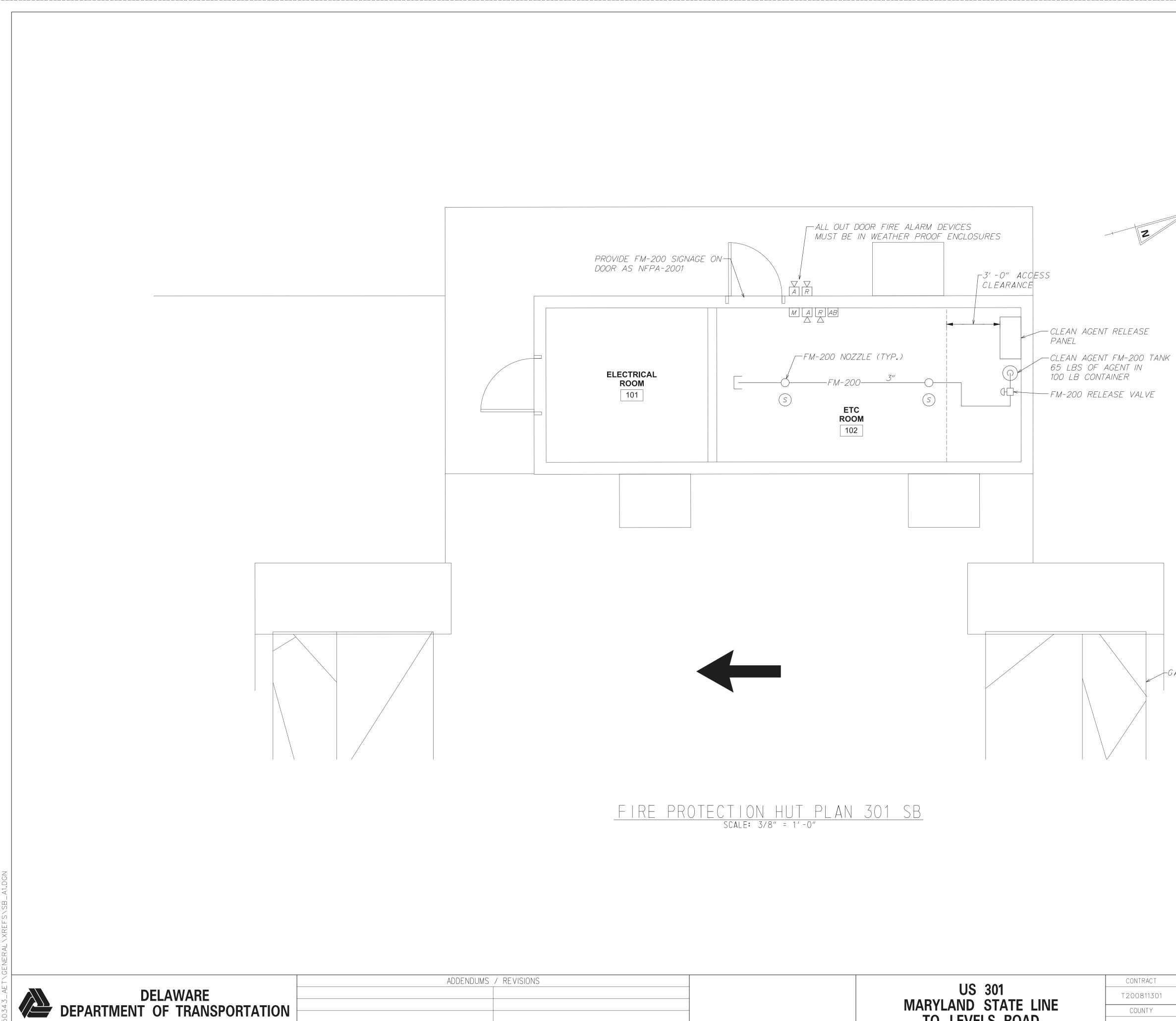
9. REFER TO FIRE PROTECTION SPECIFICATIONS FOR REQUIREMENTS ON MATERIALS, METHODS OF INSTALLATION, PRODUCTS AND GENERAL PROVISIONS.

10. IN ORDER TO FINALIZE THE PLAN REVIEW RELEASE FOR FIRE PROTECTION AND DEMONSTRATE COMPLIANCE WITH IFC 901.2 & IBC 907.1.1, THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER THE FOLLOWING:

- A. SHOP DRAWINGS, DETAILS, SPECIFICATIONS, FIRE SUPRESSION CALCULATIONS, WATER SUPPLY DATA, AND EQUIPMENT DATA SHEETS, FOR THE AUTOMATIC FIRE SPRINKLER SYSTEM TO BE INSTALLED.
- B. SHOP DRAWINGS, DETAILS, SPECIFICATIONS, EQUIPMENT DATA SHEETS, ETC. ON ALL COMPONENTS AND DEVICES TO BE INSTALLED AS PART OF THE AUTOMATIC FIRE ALARM SYSTEM
- C. THE SHOP DRAWING SUBMISSION MUST BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF DELEWARE.

### FOR INFORMATION **ONLY (BY OTHERS)**

FP-01



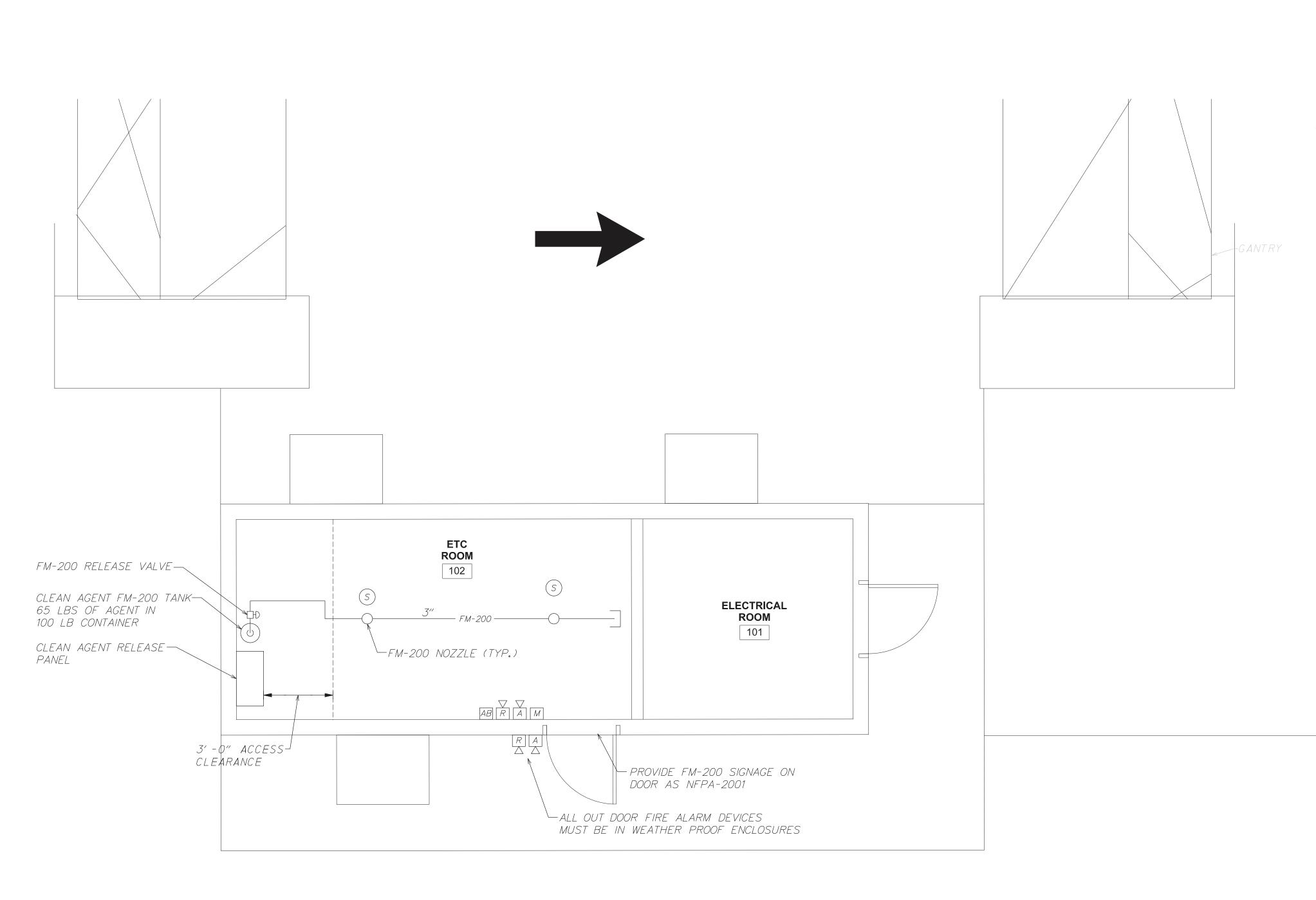
 $\simeq$ 

ŝ		CONTRACT	BRIDGE NO.		SHEET NO.
	US 301	T200811301		FIRE PROTECTION	830
	MARYLAND STATE LINE	COUNTY	COUNTY DESIGNED BY: MLW	HUT PLAN 301 SB	TOTAL SHTS.
	TO LEVELS ROAD	NEW CASTLE	CHECKED BY: DWF		850

FP-02

### FOR INFORMATION ONLY (BY OTHERS)

GANTRY





# DELAWARE DEPARTMENT OF TRANSPORTATION

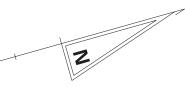
ADDENDUMS / REVISIONS

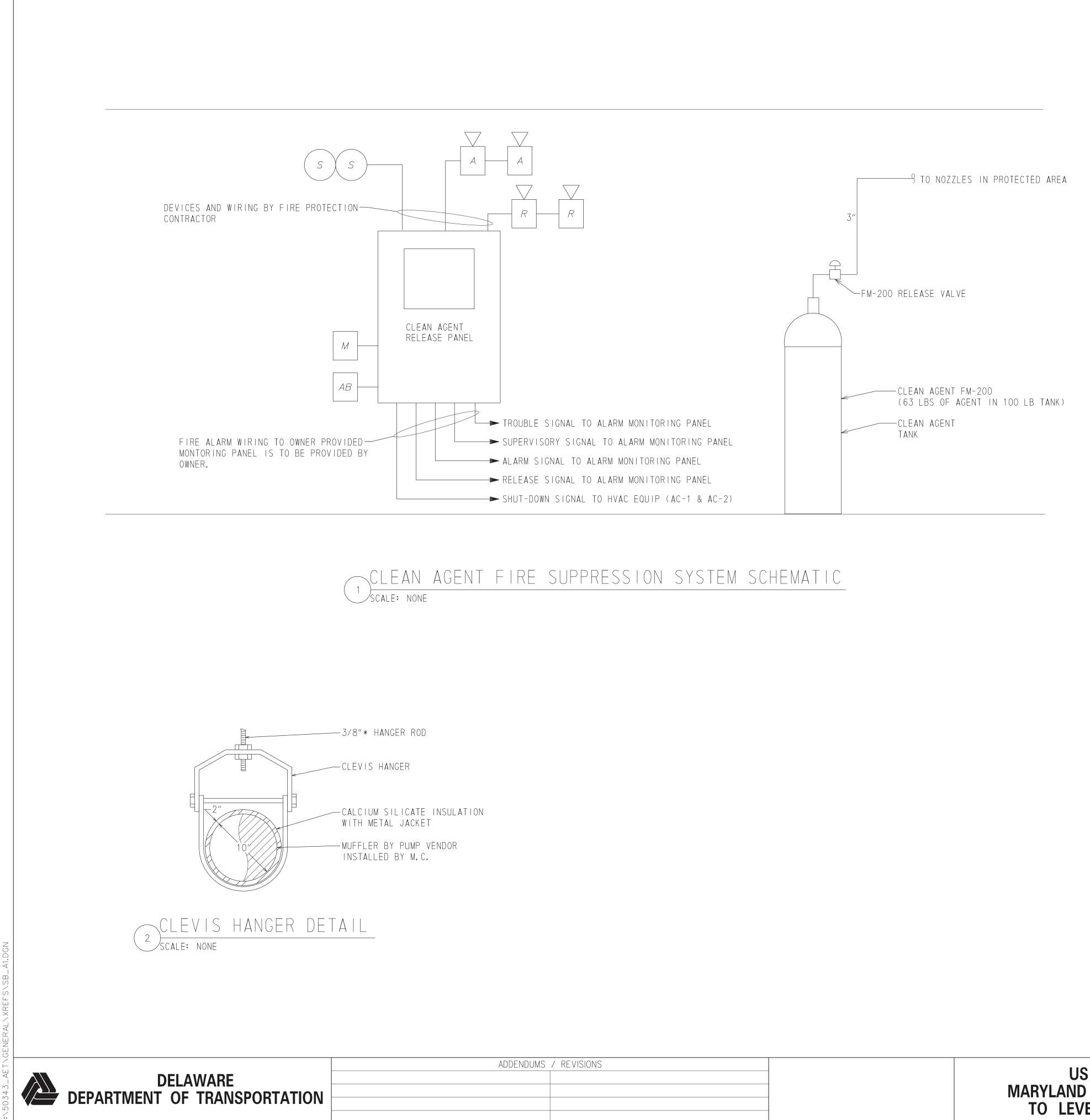
# FIRE PROTECTION HUT PLAN 301 NB scale: 3/8" = 1'-0"

S		110 001	CONTRACT	BRIDGE NO.		SHEET NO.
		US 301	T200811301		FIRE PROTECTION	831
		MARYLAND STATE LINE TO LEVELS ROAD	COUNTY	COUNTY DESIGNED BY: MLW		TOTAL SHTS.
			NEW CASTLE	CHECKED BY: DWF 301 NB	301 NB	850

FP-03

### FOR INFORMATION ONLY (BY OTHERS)





<u>SE</u>	QUENCE	OF O	PER	PAT/c
UF	PON THE	PULLI	NG	OF
1.	SEND ALA	ARM .	SIGN	VAL
2.	SEND SIG	GNAL	TO	SH
3.	RING ALA	ARM I	HOR	'N A
4.	ARM THE		IK V	AL I
5.	AT THE	END (	OF	30
6.	SEND SK	GNAL	TO	TAI
UF	PON THE	TRIPF	PING	OF
1.	SEND ALA	ARM .	SIGN	VAL
2.	RING ALA	ARM A	HOR	'N A
UF	PON THE	TRIPF	PING	OF
1.	ARM THE	TAN	K V	'AL V
2.	SEND SIC	GNAL	TO	SH
3.	AT THE I	END (	OF	THE
4.	SEND SK	GNAL	TO	TAN
UF	PON RECIE	VING	SIC	GNAL
1.	DISARM 1	ANK	VAL	VE

VS		CONTRACT	BRIDGE NO.		SHEET NO.
	US 301	T200811301		FIRE PROTECTION	832
	MARYLAND STATE LINE TO LEVELS ROAD	COUNTY	- DESIGNED BY: MLW	DETAILS & SCHEDULES	TOTAL SHTS.
	IU LEVELS NUAD	NEW CASTLE	CHECKED BY: DWF		850

### TIONS

A MANUAL PULL STATION THE CLEAN AGENT RELEASE PANEL SHALL: TO MAIN BUILDING FIRE ALARM PANEL HUT-DOWN HVAC EQUIPMENT AND STROBES LVE AND INITIATE 30 SECOND WAITING PERIOD SECOND WAITING PERIOD RING RELEASE HORN AND STROBE ANK VALVE TO RELEASE AGENT F ONE SMOKE DETECTOR THE CLEAN AGENT RELEASE PANEL SHALL: TO MAIN BUILDING FIRE ALARM PANEL AND STROBES. F A SECOND SMOKE DETECTOR THE CLEAN AGENT RELEASE PANEL SHALL: LVE AND INITATE 30 SECOND WAITING PERIOD. HUT DOWN HVAC EQUIPMENT AND DE-ENERGIZE ANY DOOR OPENERS/HOLDERS. E 30 SECOND WAITING PERIOD RING RELEASE HORN AND STROBES ANK VALVE TO RELEASE AGENT

AL FROM MANUAL ABORT SWITCH THE CLEAN AGENT RELEASE PANEL SHALL:

### FOR INFORMATION **ONLY (BY OTHERS)**

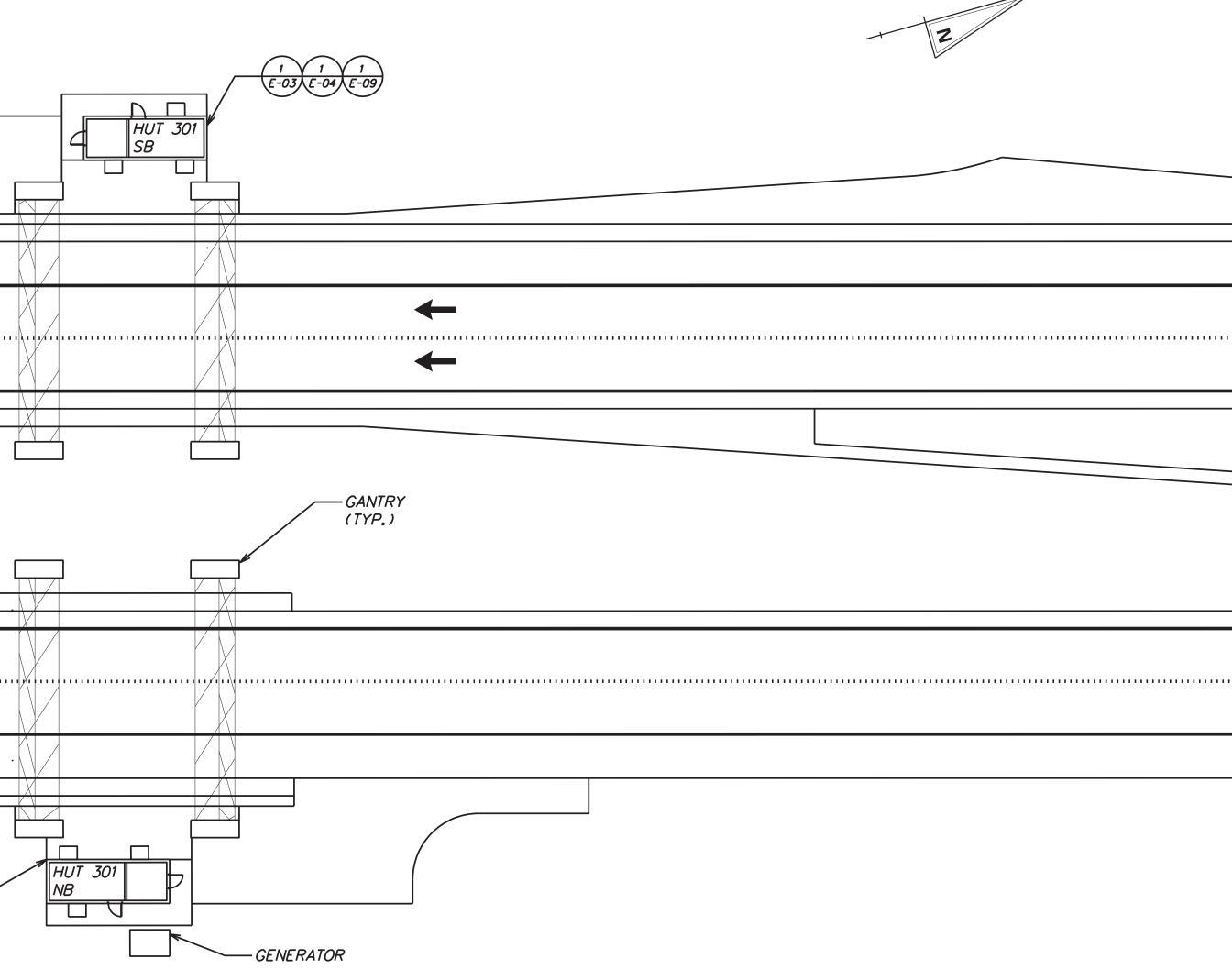
FP-04

	TE LIGHTING FIXUTRE SCHEDULE FOR FIXTURE TYPES) CIRCUIT 2x2 FLUORESCENT FIXTURE FIXTURE TYPE CONTROL DEVICE	IG S TR WP	POWER:         SINGLE RECEPTACLE (NEMA 5-20R)         RECEPTACLE WIRED TO GROUND         ISOLATED GROUND         SWITCHED         TAMPER RESISTANT         WEATHER RESISTANT RECEPTACL         WEATHER RESISTANT RECEPTACL	E W/IN-USE COVER (	WET LOCATION	, <del> </del>	E GROUND ROD EXOTHERMIC WELD CONNECTION MECHANICAL CONNECTION	V			<u>ABBREVIATIONS</u>	<u>z</u>			
·	2x4 FLUORESCENT FIXTURE	₽	DUPLEX RECEPTACLE (NEMA 5-20R)		, <i>Uruyu</i> i LU		(BOLTED OR COMPRESSION)					AMPERE	MC	METAL CLAD	
	4' FLUORESCENT FIXTURE		DOUBLE DUPLEX RECEPTACLE				BARE COPPER CONDUCTOR EXI	POSED	IISCELLANEOUS:		AFF	ALTERNATING CURRENT ABOVE FINISHED FLOOR	MCB MCC	MAIN CIRCUIT BREAKER MOTOR CONTROL CENTE	R
	8' FLUORESCENT FIXTURE		GROUND FAULT CIRCUIT INTERRUPTER (	DUPLEX NEMA 5-20R	)		BARE COPPER CONDUCTOR BUI EMBEDDED IN CONCRETE	IRIED OR	EDH EQUIPMENT IDENTIFICATION		AHJ	ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION	MFR MI	MANUFACTURE MINERAL INSULATED	
	LIGHT FIXTURE FOR EMERGENCY ILLUMINATION	-	SPECIAL PURPOSE RECEPTACLE (NEMA				GROUND BUS		SECTION IDENTIFICATION	v	AIC AL	AMPERE INTERRUPTING CAPACITY ALUMINUM	MLO MOA	MAIN LUG ONLY MULTI-OUTLET ASSEMBL	
0	CEILING MOUNTED DOWN LIGHT	س	RECEPTACLE FLOOR MOUNTED		0,20,			A E5	A SECTION NOMENCLATURE E5 SHEET NUMBER ON W		ATS AUTO	AUTOMATIC TRANSFER SWITCH AUTOMATIC	MOD MS	MOTOR OPERATED DAMI MOTOR STARTER	
ΞЮ	WALL MOUNT FIXTURE		SPECIAL PURPOSE RECEPTACLE FLOOR	Mounted (Nema	<u>ONE LINE DIA</u>	ACRAM:		SITE WORK	BLDG PLANS		BFG	AMERICAN WIRE GAUGE BELOW FINISHED GRADE	MT MTD	MANUAL TRANSFER SWI MOUNTED	ICH
	TRACK LIGHTING		CONFIGURATION AS NOTED)		▲		E DRAWOUT CIRCUIT BREAKER		2 DETAIL IDENTIFICATION			BUILDING BOTTOM OF STEEL	MV N/A	MEDIUM VOLTAGE NOT APPLICABLE	
	POLE STANDARD LIGHT FIXTURE (ONE LUMINAIRE INDICATED)	<u> </u>	MULTIOUTLET ASSEMBLY: LENGTH, TYPE OF RECEPTACLES AS NOTED	AND QUANTITY	52 ¥				E5 DETAIL NOMENCLATURE SHEET NUMBER ON WH	HICH DETAIL IS SHOWN	CB	CONDUIT CIRCUIT BREAKER	NC NEC	NORMALLY CLOSED NATIONAL ELECTRICAL C	ODE
a a a a a a a a a a a a a a a a a a a	LIGHTING BOLLARD	P	POWER POLE		朱	I OW VOLTAGE D	DRAWOUT CIRCUIT BREAKER		C COMMUNICATION		CP	CLOSED CIRCUIT TELEVISION CONTROL PANEL	NEUT NIC	NEUTRAL NOT IN CONTRACT	
	EXIT SIGN FIXTURE (SINGLE FACE UNIVERSAL MOUNT INDICAT		WALL BOX FOR MODULAR FURNITURE W	VHIP		- AMP FRAME			E ELECTRIC		CT	CONTROL POWER TRANSFORMER CURRENT TRANSFORMER	NO. No.	NORMALLY OPEN NUMBER	
	EXIT SIGN FIXTURE W/DIRECTIONAL ARROWS (DOUBLE FACE UNIVERSAL MOUNT INDICATED)		JUNCTION BOX			— AMP TRIP — ELECTRICALLY C	PERATED		T TELEPHONE		DISC	COPPER DISCONNECT	NIS PF	NOT TO SCALE POWER FACTOR	
S	SWITCH, SINGLE POLE		NON FUSED SAFETY SWITCH		)	CIRCUIT BREAKE	R		OHE OVERHEAD ELECTRIC		DN	DIVISION DOWN	PH PM DN"	PHASE POWER MONITOR	
S Sz	SWITCH, 3-WAY	(3R) 30A-	-SWITCH RATING ENCLOSURE NEMA RATING			ST - SHUNT TRI	IP		OHT OVERHEAD TELEPHONE		EC	DISCONNECT SWITCH ELECTRICAL CONTRACTOR	PNL PT	PANEL POTENTIAL TRANSFORME	R
	SWITCH, 4-WAY	ا ج	FUSED SAFETY SWITCH		<u> </u>	GF - GROUND F EO - ELECTRICA	FAULT		Ø UTILITY POLE		EF	ELECTRICAL METALLIC TUBING EXHAUST FAN	PVC RECP	POLYVINYL CHLORIDE RECEPTACLES	
54	SWITCH, DIMMER		SWITCH RATING				DLATION OR SAFETY SWITCH		HANDHOLE		EGC	ELECTRIC CABINET HEATER EQUIPMENT GROUNDING CONDUCTOR	RGS RTD	RIGID GALVANIZED STEE RESISTANCE TEMPERATI	URE DETECTOR
SD SD	SWITCH WITH PILOT LIGHT	$\square$	MAGNETIC MOTOR STARTER		7	,			MANHOLE MH-x		EWC	ELECTRIC UNIT HEATER ELECTRIC WATER COOLER	RVAT RVSS	REDUCED VOLTAGE AUT REDUCED VOLTAGE SOL	ID STATE
	TIME CLOCK		— NEMA SIZE — ENCLOSURE NEMA RATING			FUSED CUTOUT			CONDUIT FEEDERS & BRANCH CIRCUITS		FACP	FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM CONTROL PANEL FURNISHED BY OTHERS	SN SN	SURGE CAPACITOR SOLID NEUTRAL	
	DIRECTIONAL MOTION DETECTOR LIGHT CONTROL			<del>R</del>	ſ				CONDUIT		FC	FAILS CLOSED	STP	SURGE PROTECTIVE DE SHIELDED TWISTED PAIL	7
	MULTI-DIRECTIONAL MOTION DETECTOR LIGHT CONTROL		- NEMA SIZE		Ľ	FUSED LOAD BA	REAK SWITCH		CONDUIT - EMBEDDED I	N FLOOR OR EARTH	FU	FEED THROUGH FUSE FIBERGLASS REINFORCED EPOXY	STT SW SWBD	SHIELDED TWISTED TRIF SWITCH SWITCHBOARD	
l OS	CEILNG OCCUPANCY SENSOR	<i>டே</i> து	ENCLOSED CIRCUIT BREAKER									FURNISHED WITH EQUIPMENT	SWBD TC TOS	TRAY-CABLE	
PP	POWER PACK FOR CEILING OCCUPANCY SENSOR	$\square$	CONTACTOR		(⊒- □	MEDIUM VOLTAG	E MOTOR STARTER		CONDUIT TURNED DOWN			GROUND FAULT GROUND FAULT CIRCUIT INTERRUPTER GROUND	TUS TTB TTC	TOP OF STEEL TELEPHONE TERMINAL E TELEPHONE TERMINAL (	
VS	WALL VACANCY SENSOR	S <sub>T</sub>	TIME SWITCH		Ŧ		R STARTER. NUMERAL INDICATE.	S NEMA SIZE	CONDUIT CAPPED			HIGH INTENSITY DISCHARGE HORSEPOWER	TYP	TYPICAL UNDERWRITERS LABORA	
<u> </u>	SPECIAL PURPOSE LIGHT SWITCH; DESCRIPTION OF	SM	MANUAL MOTOR SWITCH (WITHOUT OVER	RLOADS)	$\boxtimes$ ,		OTHERWISE NOTED. LTAGE REVERSING		CIRCUIT HOME RUN			HIGH PRESSURE SODIUM HEAT-VENT-AIR CONDITIONING	UH UON	UNIT HEATER UNIESS OTHERWISE NO	
	SWITCH WILL BE AS NOTED ON DRAWINGS	S <sub>MT</sub>	MANUAL MOTOR STARTER (WITH THERM			2S - 2 SPEED	NG VOLTAGE AUTO TRANSFORME	ER	TO FEEDER IDENTIFICATION		IG	ISOLATED GROUND INDUSTRIAL	UPS	UNINTERRUPTIBLE POWE VOLT	
	PHOTOELECTRIC CONTROL	S <sub>MP</sub>	MANUAL MOTOR SWITCH WITH PILOT LIG	ΉT			ED VOLTAGE SOLID STATE		(SEE FEEDER LEGEND		JIC	JOINT INDUSTRIAL COUNCIL KILOVOLT	VA VAR	VOLT AMPERE VOLT AMPERE REACTIVE	-
	LIGHTING CONTACTOR: ——— REPRESENTS LIGHTING CONTACTOR IDENTIFICATION	hs	CONTROL STATION, TYPE AS NOTED			CAPACITOR			(3)*8 AWG, (1)*10 GRD-1"C		KVA	KILOVOLT AMPERE KILOVARS	W W WD	WIRE WEATHERPROOF	
	LIGHTING CONTACTOR REMOTE CONTROL:	€ □	MUSHROOM SWITCH		VFD	VARIABLE FREQ	UENCY DRIVE		5	NO SIZE IDENTIFICATION	KW	KILOVARS KILOWATT LIGHTNING ARRESTOR	WR XFMR	WEATHER RESISTANT TRANSFORMER	
LC1-	REPRESENTS LIGHTING CONTACTOR TO BE CONTROLLED		MOTOR (HORSEPOWER INDICATED ON PL		- miles	POWER TRANSFO	ORMER		SEE GENERAL NOTE 9	NO SIZE IDENTIFICATION	LC	LIGHTING CONTACTOR LIGHTING	лти 1-РН 3-РН	SINGLE PHASE THREE PHASE	
			TRANSFORMER	₽							210		5 - 11		
EMERGENCY	LIGHTING:		GENERATOR			- CONNECTION									
	EMERGENCY BATTERY PACK FIXTURE WITH TWO HEADS	MOD	MOTOR OPERATED DAMPER	4		SHIELDED ISOLA	TION TRANSFORMER	<u>VIRING METHODS:</u> A. INTERIOR 1 EXPOSI	D AREAS NOT SUBJECT TO PHYSICAL ABUSE	-FMT					
TD-	TD-TIME DELAY RESET		THERMOSTAT		480/12	) POTENTIAL TRAN — RATIO	ISFORMER	2. EXPOSI	TO AREAS SUBJECT TO ABUSE-RIGID STEEL ( OR PIT-RIGID STEEL CONDUIT.	CONDUIT.					
4~~	REMOTE HEADS FOR EMERGENCY BATTERY PACK		UNINTERRUPTIBLE POWER SUPPLY		2	— RATIO — NUMBER REQUIF	RED		ALED IN STUD WALL OR ABOVE SUSPENDED (	CEILING-EMT OR TYPE					
-	UNIT		SURGE PROTECTIVE DEVICE		¢	CURRENT TRANS	GFORMER	5. CONCE	ALED IN MASONRY WALLS - EMT OR RIGID ST						
FIRE ALARM	<u>SYSTEM:</u> FIRE ALARM CONTROL PANEL	ţ	UNIT HEATER		<u>−</u> 600/5- 2-	← RATIO — NUMBER REQUIR	RED E	B. TUNNEL 1 RIGID S	TEEL CONDUIT	<u>,</u>		: HALL BE PERFORMED IN ACCORDANCE WITH BY THE DELAWARE STATE FIRE MARSHALL.		ELECTRICAL CODE (NFPA-	70) AS ADOPTED
FAAP	FIRE ALARM ANNUNCIATOR PANEL	<u>COMMUNICAT</u>	TIONS:		⊈	GROUND FAULT	CURRENT TRANSFORMER	C. EXTERIOR				BI THE DELAWARE STATE FIRE MARSHALL.			
L F	FIRE ALARM MANUAL PULL STATION	S	CEILING SPEAKER		ି କ	MOTOR, NUMBER	? INDICATES HORSE POWER		STEEL CONDUIT		AND STRUCTUR	RAL FEATURES SHOWN ON THESE DRAWINGS RAL DRAWINGS FOR BUILDING DIMENSIONS, SU UILDING ELEMENTS.	ECTIONS, ELEV	ATIONS, PARTITION RATINGS	S AND CONSTRUCTION
	SMOKE DETECTOR (PHOTOELECTRIC U.O.N.)	শ	WALL MOUNTED SPEAKER			GENERATOR	Ľ	D. BELOW GRAU	DE TE ENCASED-SCHEDULE 40 PVC			OCATIONS ARE SHOWN FOR REFERENCE ON			
		<u>চাহ</u>	WALL MOUNTED DOUBLE SPEAKER		<u>ি</u> বিগ্লু		IC TRANSFER SWITCH		BURIED-SCHEDULE 40 PVC			ND EQUIPMENTPLANS FOR EQUIPMENT LOCAT		J ARCHITECTURAL, HVAC, P	LUMBING, FIRE
	HEAT DETECTOR (FIXED TEMP U.O.N.) — RATE OF RISE	<b>S</b>	POLE MOUNTED SPEAKER		ATS		TRANSFER SWITCH	E. PENETRATION 1. UP TH	NS ROUGH GRADE-PVC COATED RIGID STEEL		4. THE DRAWING	GS ARE DIAGRAMMATIC AND INDICATE THE G SUPPORT, OFFSET, FITTING OR COMPONENT.	ENERAL ARRAI	NGEMENT OF SYSTEMS AND MATERIALS FOR A COMPL	WORK AND DO NOT
	DUCT SMOKE DETECTOR	55	POLE MOUNTED DOUBLE SPEAKER		A	METER A - AMMETE V - VOLTME			GH FOUNDATION WALLS-PVC COATED RIGID ST	TEEL		AND FIELD VERIFY ALL DIMENSIONS.			
FS	SPRINKLER SYSTEM WATER FLOW SWITCH		VOICE DATA OUTLET			W - WATTM					5.COORDINATE	ALL WORK WITH OTHER TRADES TO AVOID	INTERFERENCE	S.	
TS	SPRINKLER SYSTEM TAMPER SWITCH		DATA OUTLET — INDICATES NUMBER OF PORTS			WH - WATT KWH - KILO KVAR - KILO	WATT HOUR				6. ALL MOTOR S	SAFETY SWITCHES, LOCAL DISCONNECTS, MOT INTRACTOR (DIVISION 26) UNLESS OTHERWISE	TOR STARTERS ד NOTED אי	AND DRIVES SHALL BE P THE DRAWINGS AS FURNISH	ROVIDED BY THE
F	FIRE ALARM SIRUDE		FLOOR MOUNTED OUTLET			VAR - VAR					(FWE).				
, (75)	_ CANDELL RATING (15 U.O.N.)		CABLE TELEVISION OUTLET				R FACTOR METER					ATIONS THROUGH FLOORS, WALLS AND RATE RIALS TO MAINTAIN THE RATING OF THE SEA		SHALL BE SEALED WITH U	IL LISTED FIRE
	FIRE ALARM SPEAKER/STROBE		TELEPHONE OUTLET		DPM	DIGITAL POWER	METER					NT GROUNDING CONDUCTOR SHALL BE PROVI		RY FEEDER AND BRANCH	CIRCUIT.
	FIRE ALARM SPEAKER	P- W-	- PAY PHONE WALL MOUNTED		AS	METER TRANSFE AS - AMME					9. ALL WIRING S	SHALL BE COPPER. WHERE CONDUCTOR SIZ	ES ARE NOT I	NDICATED ON THE DRAWING	SS, MINIMUM WIRING
	FIRE ALARM HORN/STROBE	C~•	WALL BOX FOR SYSTEMS FURNITURE	VOICE/DATA WHIP	Ĺ		IETER SWITCH				SHALL BE 2 N GROUND FOR T	IO. 12 AWG & 12 GRD FOR SINGLE PHASE C THREE PHASE CIRCUITS. WIRE SIZE FOR 20	IRCUITS LESS DAMP-120 VO	THAN 75 FEET AND 3 NO. LT BRANCH CIRCUITS WITH	. 12 & NO. 12 CIRCUIT LENGTH
MM	MONITOR MODULE	[ <i>TTC</i> ]	TELEPHONE TERMINAL CABINET		SPD	SURGE PROTECT	TIVE DEVICE				GREATER THAN THAN 125 FEE	N 75 FEET SHALL BE (2)*10, (1)*10 GRD IN T SHALL BE (2)*8, (1)*8 GRD IN ¾" C. BI	¾C. BRANCH RANCH CIRCUI	I CIRCUITS WITH CIRCUIT L TS WITH CIRCUIT LENGTH (	ENGTH GREATER GREATER THAN 200
СМ	CONTROL MODULE		CONTROL/INTRUSION ALARM:			LIGHTNING ARRE	STOR				FEET SHALL BU SHALL BE (2)*	E (2)*6,(1)*6 GRD IN ¾" C. BRANCH CII *4,(1)*4 GRD IN 1" C. SHORT TAPS OFF TI	RCUITS WITH (	CIRCUIT LENGTH GREATER	THAN 250 FEET
RTI	REMOTE-TEST-INDICATOR	AICP AC	CESS/INTRUSION ALARM CONTROL PANEL		~ <u>k</u> ~	KEY INTERLOCK					TO BE NO. 12		2 - 2 - <b>2</b> - <b>2</b>		
DH	MAGNETIC DOOR HOLDER		OR CONTACT			FUSE									
	CARBON MONOXIDE DETECTOR		CESS KEYPAD		e	ELECTRONIC PO	WER FUSE								
SD	SMOKE DAMPER		CESS CARD READER		f	DRAWOUT DEVIC	E			[				ONLY (BY	
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER		DTION DETECTOR		*	GROUND	-			SYMBOLS AND ABBREN	VIATIONS ARE FO	OR REFERENCE ONLY AND DO NOT			
		CCTVACLO	OSED CIRCUIT TELEVISION CAMERA		÷									8⁄07/15	E–01
			ADDENDUMS /	REVISIONS							CONTRACT	BRIDGE NO.			SHEET NO.
	DELAWARE								US 301 MARYLAND STATE		T200811301			ELECTRICAL GEND, SYMBOLS	833
DEP	PARTMENT OF TRANSPORTATION								TO LEVELS RO		COUNTY			ABBREVIATIONS	TUTAL SHIS.
									IU LEVELS RU	יהע	NEW CASTLE	E CHECKED BY: RAK			850

r amp	AMPERE	МС	METAL CLAD
	ALTERNATING CURRENT	MCB	MAIN CIRCUIT BREAKER
	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
	ABOVE FINISHED GRADE	MFR	MANUFACTURE
	AUTHORITY HAVING JURISDICTION	MI	MINERAL INSULATED
	AMPERE INTERRUPTING CAPACITY	MLO	MAIN LUG ONLY
	ALUMINUM	MOA	MULTI-OUTLET ASSEMBLY
	AUTOMATIC TRANSFER SWITCH	MOD	MOTOR OPERATED DAMPER
0	AUTOMATIC	MS	MOTOR STARTER
	AMERICAN WIRE GAUGE	MT	MANUAL TRANSFER SWITCH
	BELOW FINISHED GRADE	MTD	MOUNTED
<u>,</u>	BUILDING	MV	MEDIUM VOLTAGE
	BOTTOM OF STEEL	N/A	NOT APPLICABLE
	CONDUIT	NC	NORMALLY CLOSED
	CIRCUIT BREAKER	NEC	NATIONAL ELECTRICAL CODE
/	CLOSED CIRCUIT TELEVISION	NEUT	NEUTRAL
	CONTROL PANEL	NIC	NOT IN CONTRACT
	CONTROL POWER TRANSFORMER	NO	NORMALLY OPEN
	CURRENT TRANSFORMER	No.	NUMBER
	COPPER	NTS	NOT TO SCALE
•	DISCONNECT	PF	POWER FACTOR
•	DIVISION	PH	PHASE
	DOWN	PM	POWER MONITOR
	DISCONNECT SWITCH	PNL	PANEL
	ELECTRICAL CONTRACTOR	PT	POTENTIAL TRANSFORMER
	ELECTRICAL METALLIC TUBING	PVC	POLYVINYL CHLORIDE
	ELECTRICAL METALLIC TOBING	RECP	RECEPTACLES
	ELECTRIC CABINET HEATER	RGS	RIGID GALVANIZED STEEL(CONDUIT)
	EQUIPMENT GROUNDING CONDUCTOR	RTD	RESISTANCE TEMPERATURE DETECTOR
,		RVAT	
	ELECTRIC UNIT HEATER	RVSS	REDUCED VOLTAGE AUTOTRANSFORMER REDUCED VOLTAGE SOLID STATE
ρ	ELECTRIC WATER COOLER		
P D	FIRE ALARM ANNUNCIATOR PANEL	SC	SURGE CAPACITOR
	FIRE ALARM CONTROL PANEL	SN	SOLID NEUTRAL
	FURNISHED BY OTHERS	SPD	SURGE PROTECTIVE DEVICE
	FAILS CLOSED	STP	SHIELDED TWISTED PAIR
	FEED THROUGH	STT	SHIELDED TWISTED TRIPLET
	FUSE	SW	SWITCH
	FIBERGLASS REINFORCED EPOXY	SWBD	SWITCHBOARD
	FURNISHED WITH EQUIPMENT	TC	TRAY-CABLE
	GROUND FAULT	TOS	TOP OF STEEL
1	GROUND FAULT CIRCUIT INTERRUPTER	TTB	TELEPHONE TERMINAL BOARD
	GROUND	TTC	TELEPHONE TERMINAL CABINET
	HIGH INTENSITY DISCHARGE	TYP	TYPICAL
	HORSEPOWER	UL	UNDERWRITERS LABORATORIES
_	HIGH PRESSURE SODIUM	UH	UNIT_HEATER
С	HEAT-VENT-AIR CONDITIONING	UON	UNLESS OTHERWISE NOTED
	ISOLATED GROUND	UPS	UNINTERRUPTIBLE POWER SUPPLY
	INDUSTRIAL	V	VOLT
	JOINT INDUSTRIAL COUNCIL	VA	VOLT AMPERE
	KILOVOLT	VAR	VOLT AMPERE REACTIVE
	KILOVOLT AMPERE	W	WIRE
R	KILOVARS	WP	WEATHERPROOF
	KILOWATT	WR	WEATHER RESISTANT
	LIGHTNING ARRESTOR	XFMR	TRANSFORMER
	LIGHTING CONTACTOR	1-PH	SINGLE PHASE
	LIGHTING	3-PH	THREE PHASE

AST REVISED: 3/12/2008 :\50343 – DELDOT US301\05 WORK\02 CAD\AET\GENERAL\XREFS\SB_A1.DGN				

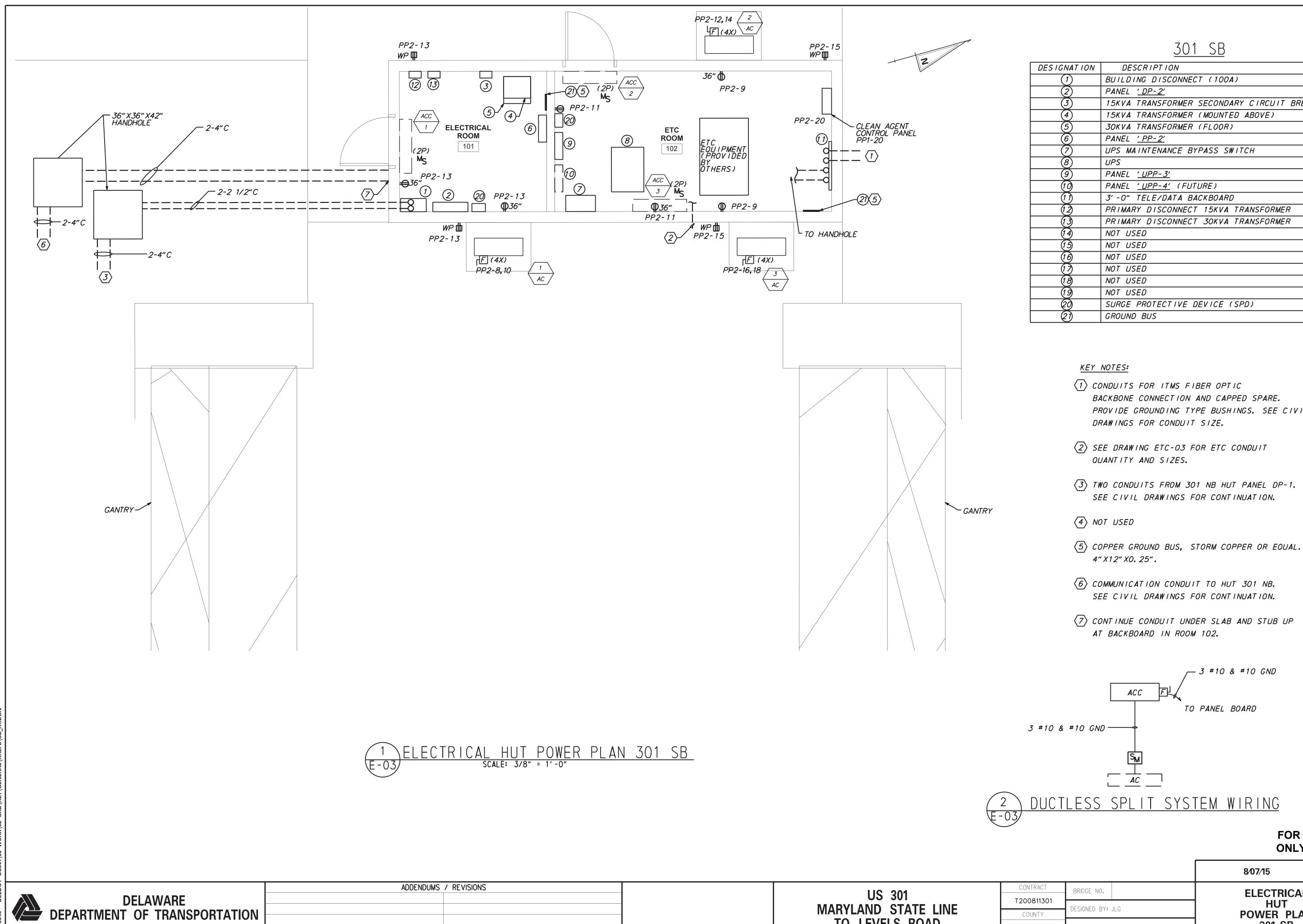
Lì C



# <u>SITE PLAN</u> scale: 1" = 20'

				8⁄07⁄15	E–02	2
ONS		CONTRACT	BRIDGE NO.		S	SHEET NO.
		US 301 T200811301		ELECTRICAL		834
	MARYLAN	COUNTI	DESIGNED BY: JLG	SITE PLAN	ТО	OTAL SHTS.
	TO LE	EVELS ROAD NEW CASTLE	CHECKED BY: RAK			850

	FOR INFORMATION ONLY (BY OTHERS)				
8⁄07⁄15	8⁄07/15 E–02				
	-	SHEET NO.			
		834			



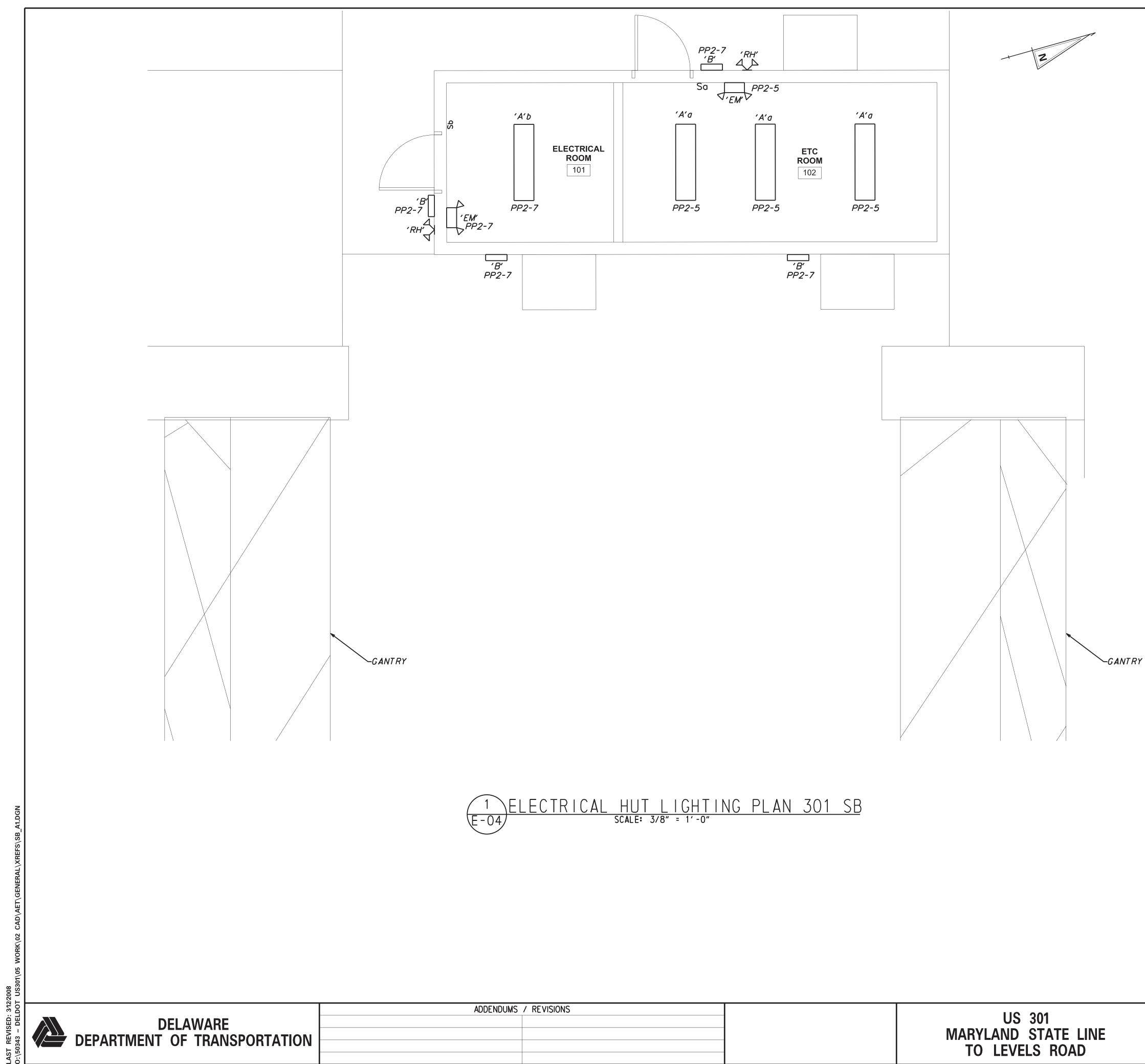
312

				8⁄07⁄15	E–03
S		CONTRACT	BRIDGE NO.	ELECTRICAL	SHEET NO.
	US 301	T200811301		HUT	835
	MARYLAND STATE LINE	COUNTY	DESIGNED BY: JLG	POWER PLAN	TOTAL SHTS.
	TO LEVELS ROAD	NEW CASTLE	CHECKED BY: RAK	301 SB	850

DESIGNATION	DESCRIPTION
	BUILDING DISCONNECT (100A)
2	PANEL <u>' DP-2'</u>
3	15KVA TRANSFORMER SECONDARY CIRCUIT BREAKER
4	15KVA TRANSFORMER (MOUNTED ABOVE)
5	30KVA TRANSFORMER (FLOOR)
6	PANEL <u>' PP-2'</u>
$\bigcirc$	UPS MAINTENANCE BYPASS SWITCH
8	UPS
9	PANEL <u>'UPP-3'</u>
10	PANEL <u>'UPP-4'</u> (FUTURE)
(1)	3' -O" TELE/DATA BACKBOARD
12	PRIMARY DISCONNECT 15KVA TRANSFORMER
(13)	PRIMARY DISCONNECT JOKVA TRANSFORMER
(14)	NOT USED
15	NOT USED
16	NOT USED
	NOT USED
18	NOT USED
19	NOT USED
20	SURGE PROTECTIVE DEVICE (SPD)
<u>(</u> )	GROUND BUS

- PROVIDE GROUNDING TYPE BUSHINGS. SEE CIVIL

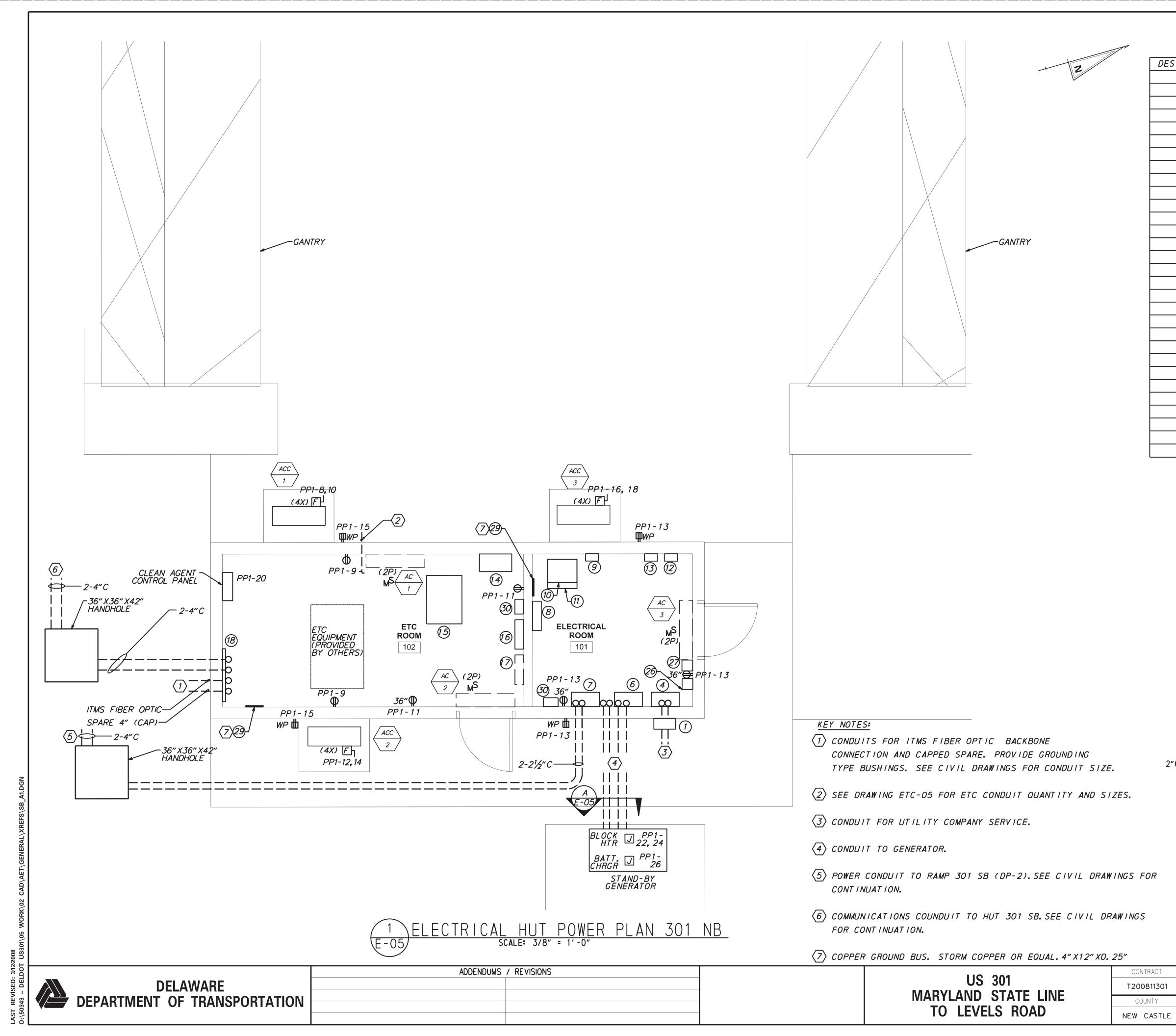
## FOR INFORMATION **ONLY (BY OTHERS)**



				ONLY (B	Y OTHERS)
				8⁄07⁄15	E–04
ONS	US 301	CONTRACT T200811301	BRIDGE NO.	ELECTRICAL	SHEET NO. <b>836</b>
	MARYLAND STATE LINE	COUNTY	DESIGNED BY: JLG	HUT LIGHTING PLAN	
	TO LEVELS ROAD	NEW CASTLE	CHECKED BY: RAK	301 SB	850

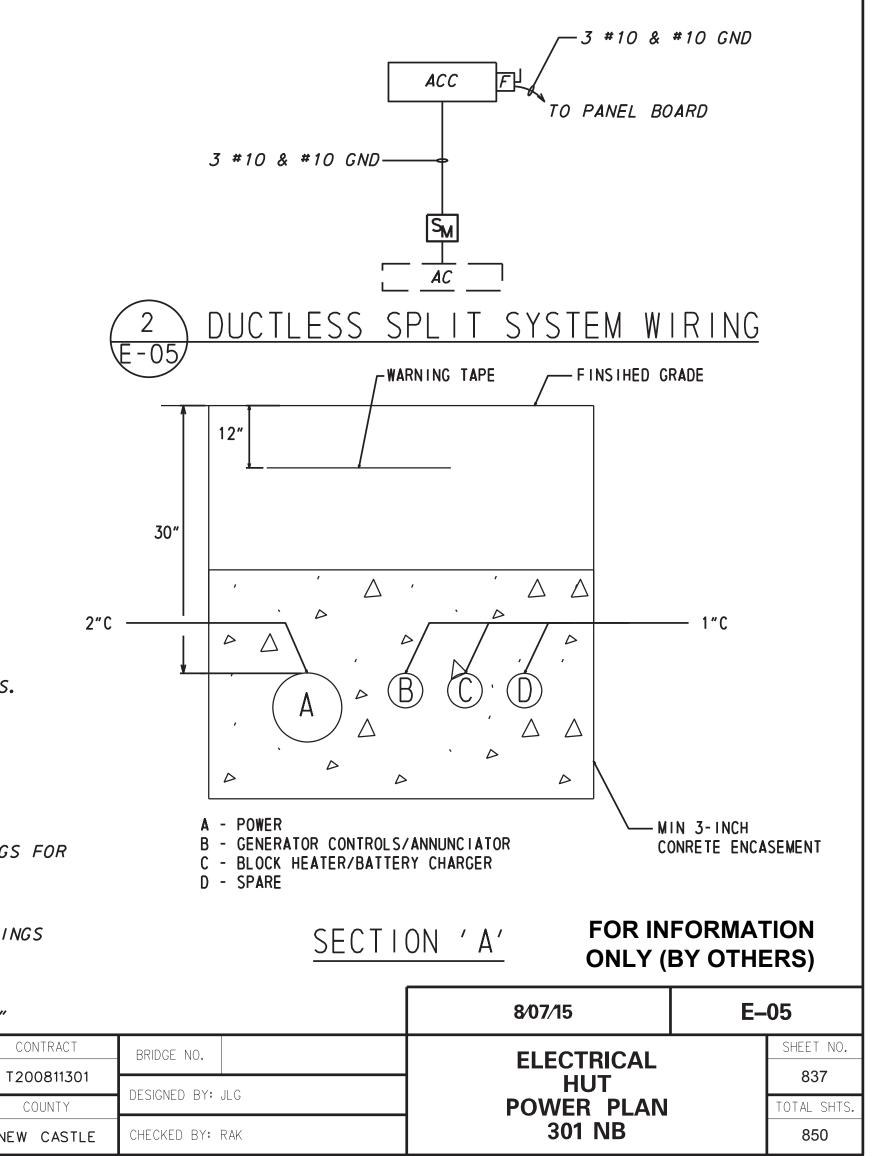
NOTES: 1. SEE DWG. E-10 FOR LUMINAIRE SCHEDULE.

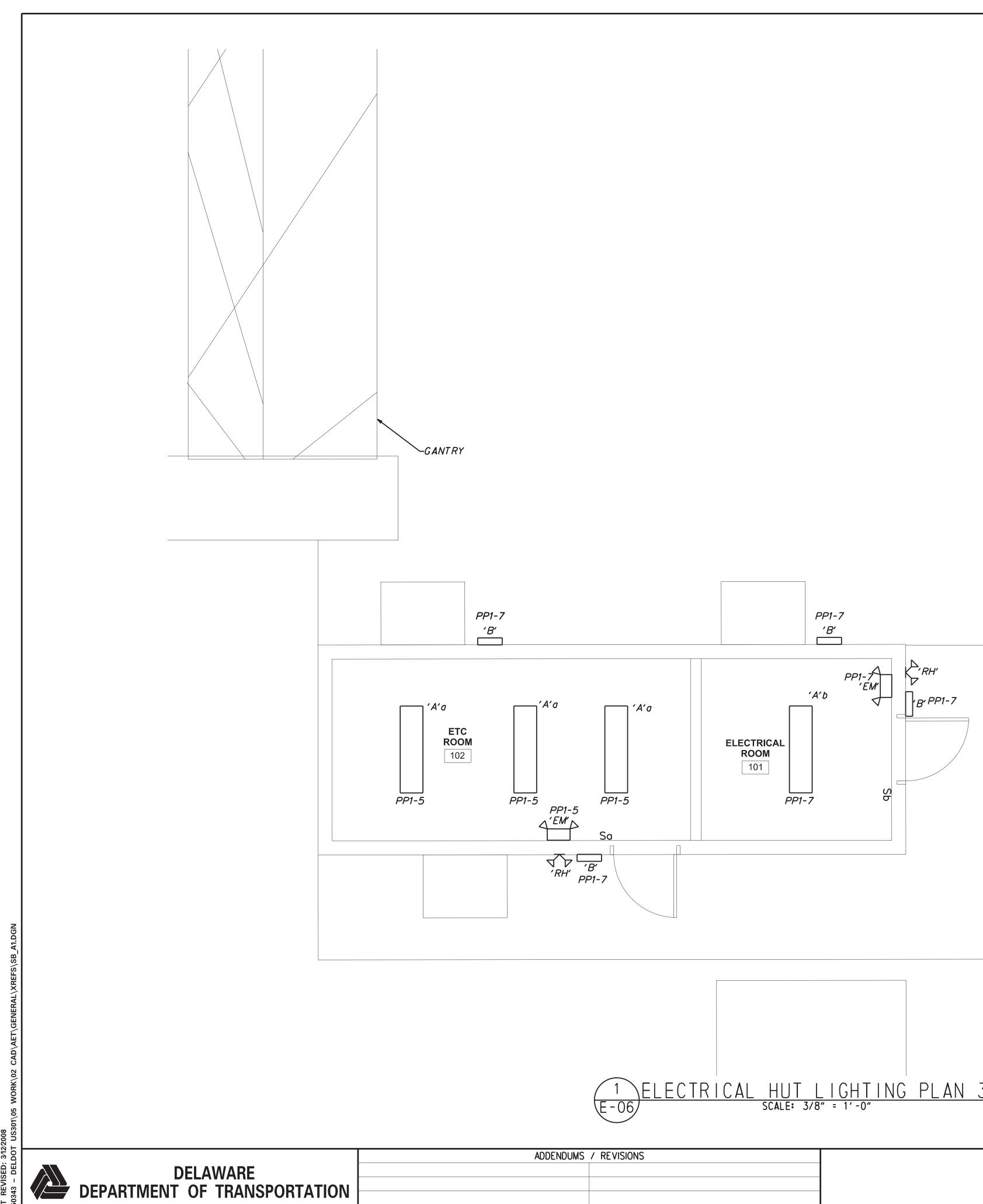
FOR INFORMATION



<u>301</u>	NB

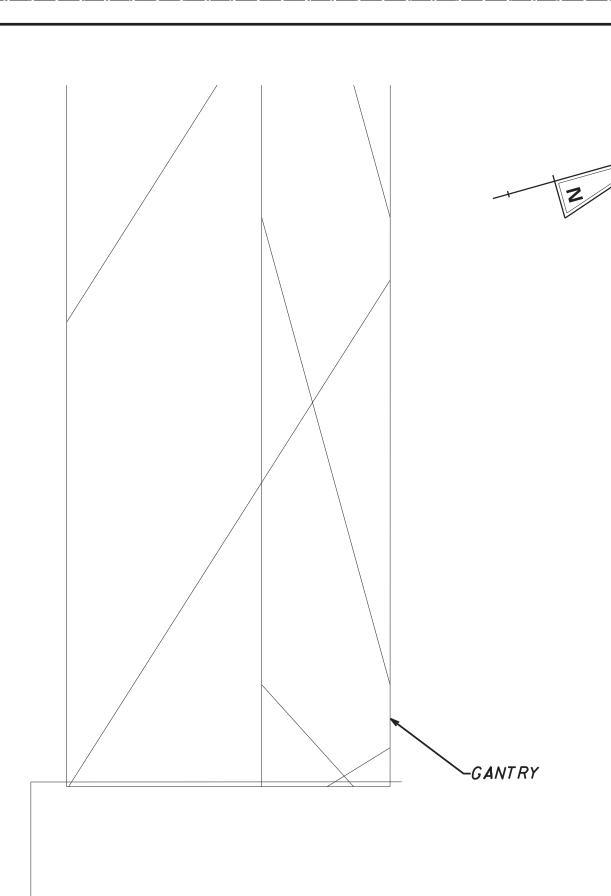
DESIGNATION	DESCRIPTION
(1)	UTILITY COMPANY METER
(2)	NOT USED
(3)	NOT USED
(4)	SERVICE DISCONNECT (200A)
(5)	NOT USED
6	AUTOMATIC TRANSFER SWITCH
$\bigcirc$	PANEL <u>' DP-1'</u>
8	PANEL <u>'PP-1'</u>
9	15KVA TRANSFORMER SECONDARY CIRCUIT BREAKER
10	15KVA TRANSFORMER (MOUNTED ABOVE)
	30KVA TRANSFORMER (FLOOR)
(2)	PRIMARY DISCONNECT 15KVA TRANSFORMER
(3)	PRIMARY DISCONNECT JOKVA TRANSFORMER
(14)	UPS MAINTENANCE BYPASS SWITCH
(15)	UPS
(6)	PANEL <u>'UPP-1'</u>
$\bigcirc$	PANEL <u>'UPP-2'</u> (FUTURE)
(8)	3' -O" TELE/DATA BACKBOARD
[19]	NOT USED
20	NOT USED
<u>(</u> )	NOT USED
22	NOT USED
23	NOT USED
24	NOT USED
25	NOT USED
20	GENERATOR ANNUNICIATOR
<u>()</u>	GENERATOR ESTOP
(8)	NOT USED
	GROUND BUS
30	SURGE PROTECTIVE DEVICE (SPD)





Ö Ř

			•
		TO LEVELS ROAD	COUN NEW CA
		MARYLAND STATE LINE	T20081
ONS		US 301	CONTRA
ELECTRICAL HUT LI	= 1' -0"		
VELECTRICAL HILT LI	CHTINC PLAN 301	NR	



<u>NOTES:</u> 1. SEE DWG. E-10 FOR LUMINAIRE SCHEDULE.

			FOR INFORMATION ONLY (BY OTHERS)				
			8⁄07⁄15	E-	06		
NTRACT	BRIDGE NO.		ELECTRICAL		SHEET NO.		
0811301	DESIGNED BY:		HUT		838		
DUNTY	DESIGNED DI.	JLG	POWER PLAN		TOTAL SHTS.		
CASTLE	CHECKED BY:	RAK	301 NB		850		

PANEL DESIGNATION DP1			TYPE: - NUMBER OF POLES: 42 MAIN BUS RATING:225A MAIN RATING:200A MCB							
CIR. No.	CIR. BKR.		DESCRIPTION	LO AØ	AD - BØ	KVA CØ	-	LOA AØ	D - 1 BØ	<i>(V)</i>
1				4.0			1  =	7.2		╞
3	30	15 KVA XMFR	(UPS)	/. 0	4.0		1	/ • 2	8.8	┢
5						4.0	1 [			7
7				3.5			┥┝	-		╞
9 11	50	30 KVA XMFR	(PP-1)		6.8	5.7	┥┝		-	+
13				-		J. /	+			+
15	30	SPARE			-		1			┢
17						-	1 [			
19							┥┝			╞
21							+			┢
<i>23</i> <i>25</i>							┥┝			┝
27							1			+
29							1 [			
31							[			$\downarrow$
33							┥┝			╞
35 37							┥┝			╀
39							┥┝			╀
41							1			$\uparrow$
CØ	<u>19.6</u> <u>17.4</u> <u>51.7</u> 7	TOTAL								
	NEL DE	TOTAL ESIGNATION PP 1	TYPE: - NUMBER OF PO MAIN BUS RAT MAIN RATING:	T I NG: 2	225A					
PA	NEL DE P	ES IGNAT ION PP 1	NUMBER OF PO MAIN BUS RA MAIN RATING	T I NG: 2 100A	225A MCB	KVA		1.04	10 - 4	
	NEL DE P	ES IGNAT ION PP 1	NUMBER OF PO MAIN BUS RAT	T I NG: 2 100A	225A	KVA CØ		LOA	D - 1 BØ	
PA CIR. No.	NEL DE P C I R. BK R. 20	ESIGNATION PP 1 SPARE	NUMBER OF PO MAIN BUS RA MAIN RATING	T I NG: 2 100A	225A MCB AD -				BØ	
PA C I R. No. 1 3	NEL DE F C I R. BK R. 20 20	ES IGNAT ION PP 1 SPARE SPARE	NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION	LO AØ	225A MCB AD -	CØ			T	
PA C I R. No. 1 3 5	NEL DE F C I R. BK R. 20 20 20 20	SIGNATION PP-1 SPARE SPARE ETC ROOM LIC	NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION	T I NG: 2 100A <u>L0</u> AØ -	225A MCB AD - BØ			AØ -	BØ	
PA PA No. 1 3 5 7	NEL DE F C I R. BK R. 20 20 20 20 20	SIGNATION PP 1 SPARE SPARE ETC ROOM LIC ELECT RM/EX	NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG	LO AØ	225A MCB AD - BØ	CØ			BØ	
PA C I R. No. 1 3 5	NEL DE F C I R. BK R. 20 20 20 20	SIGNATION PP-1 SPARE SPARE ETC ROOM LIC	NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM	T I NG: 2 100A <u>L0</u> AØ -	225A MCB AD - BØ -	CØ		AØ -	<i>BØ</i> -	
PA C I R. No. 1 3 5 7 9 11 13	NEL DE F C I R. BK R. 20 20 20 20 20 20 20 20 20 20	SIGNATION PP-1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ETC RECEPT - ELE	NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM	LO - 0. 2	225A MCB AD - BØ -	CØ 0.3		AØ -	<i>BØ</i> - 2.0	
PA C I R. No. 1 3 5 7 9 11 13 15	NEL DE P C I R. BK R. 20 20 20 20 20 20 20 20 20 20 20 20 20	SIGNATION PP1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ELE RECEPT - ELE RECEPT - OU	NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM	LO - 0. 2	225A MCB AD - BØ -	CØ 0.3		AØ - 2. 0	<i>BØ</i> -	
PA CIR. No. 1 3 5 7 9 11 13 15 17	NEL DE F CIR. BKR. 20 20 20 20 20 20 20 20 20 20 20 20 20	SIGNATION P1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ELE RECEPT - ELE RECEPT - OUT SPARE	NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM	LO - 0.2	225A MCB AD - BØ - 0.4	CØ 0.3		AØ - 2. 0	<i>BØ</i> - 2.0	
PA C I R. No. 1 3 5 7 9 11 13 15 17 19	NEL DE F CIR. BKR. 20 20 20 20 20 20 20 20 20 20 20 20 20	SIGNATION PP-1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ELE RECEPT - ELE RECEPT - OU SPARE SPARE	NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM	LO - 0.2	225A MCB AD - BØ - 0.4	CØ 0.3 0.4		AØ - 2. 0	BØ - 2.0 2.0	
PA CIR. No. 1 3 5 7 9 11 13 15 17	NEL DE F CIR. BKR. 20 20 20 20 20 20 20 20 20 20 20 20 20	SIGNATION P1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ELE RECEPT - ELE RECEPT - OUT SPARE	NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM	LO - 0.2	225A MCB AD - BØ - 0.4	CØ 0.3 0.4		AØ - 2. 0	<i>BØ</i> - 2.0	
PA C I R. No. 1 3 5 7 9 11 13 15 17 19 21	NEL DE P C I R. BKR. 20 20 20 20 20 20 20 20 20 20	SIGNATION PP-1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ELE RECEPT - ELE RECEPT - OU SPARE SPARE SPARE	NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM	LO - 0.2	225A MCB AD - BØ - 0.4	CØ 0.3 0.4		AØ - 2. 0	BØ - 2.0 2.0	
PA CIR. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27	NEL DE F CIR. BKR. 20 20 20 20 20 20 20 20 20 20	SIGNATION PP-1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ELE RECEPT - ELE RECEPT - ELE RECEPT - OU SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM	LO - 0.2	225A MCB AD - BØ - 0.4	CØ 0.3 0.4		AØ - 2.0 - 0.2	BØ - 2.0 2.0	
PA CIR. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29	NEL DE F CIR. BKR. 20 20 20 20 20 20 20 20 20 20	SIGNATION PP-1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ETC RECEPT - ELE RECEPT - ELE RECEPT - OU SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM	LO - 0.2	225A MCB AD - BØ - 0.4	CØ 0.3 0.4		AØ - 2.0 - 0.2	BØ - 2.0 2.0	
PA CIR. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31	NEL DE F CIR. BKR. 20 20 20 20 20 20 20 20 20 20	SIGNATION PP-1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ELE RECEPT - ELE RECEPT - ELE RECEPT - OU SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM	LO - 0.2	225A MCB AD - BØ - 0.4	CØ 0.3 0.4		AØ - 2.0 - 0.2	BØ - 2.0 2.0	
PA CIR. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33	NEL DE F CIR. BKR. 20 20 20 20 20 20 20 20 20 20	SIGNATION PP-1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ELE RECEPT - ELE RECEPT - ELE RECEPT - OU SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM	LO - 0.2	225A MCB AD - BØ - 0.4	CØ 0.3 0.4		AØ - 2.0 - 0.2	BØ - 2.0 2.0	
PA CIR. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31	NEL DE F CIR. BKR. 20 20 20 20 20 20 20 20 20 20	SIGNATION PP-1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ELE RECEPT - ELE RECEPT - ELE RECEPT - OU SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM	LO - 0.2	225A MCB AD - BØ - 0.4	CØ 0.3 0.4		AØ - 2.0 - 0.2	BØ - 2.0 2.0	
PA CIR. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39	NEL DE F CIR. BKR. 20 20 20 20 20 20 20 20 20 20	SIGNATION PP-1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ETC RECEPT - ELE RECEPT - ELE RECEPT - OU SPARE	NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM	LO - 0.2	225A MCB AD - BØ - 0.4	CØ 0.3 0.4 -		AØ - 2.0 - 0.2	BØ - 2.0 2.0	
PA CIR. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37	NEL DE F CIR BKR 20 20 20 20 20 20 20 20 20 20	SIGNATION PP-1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ELE RECEPT - ELE RECEPT - ELE RECEPT - OU SPARE	NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM C ROOM C ROOM C ROOM	LO LO AØ - 0.2 0.8 - - - - - - - - - - - - -	225A MCB AD - BØ - 0.4 0.4 0.4	CØ 0.3 0.4 - -		AØ - 2.0 - 0.2 0.3	<i>BØ</i> 2.0 2.0	
PA CIR. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 25 27 29 31 33 35 37 39 41 PAN	NEL DE F CIR. BKR. 20 20 20 20 20 20 20 20 20 20	SIGNATION PP-1 SPARE SPARE ETC ROOM LIC ELECT RM/EX RECEPT - ETC RECEPT - ELE RECEPT - ELE RECEPT - ELE RECEPT - OU SPARE	NUMBER OF PO MAIN BUS RAT MAIN RATING DESCRIPTION GHTING TERIOR LTG C ROOM C ROOM C ROOM C ROOM C ROOM TDOOR TDOOR TDOOR	LO LO AØ - 0.2 0.8 - - - - - - - - - - - - -	225A MCB AD - BØ - 0.4 0.4	CØ 0.3 0.4 -		AØ - 2.0 - 0.2 0.3 - 0.3 - 2.5	BØ - 2.0 2.0	

	ADDENDUMS / REVISIONS		_AWARE OF TRANSPORTATION		PARTMEI	PP-1	1343 - DELDUI UD3U
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				PP-1	UPP-1	DP-1	ראע פט/ד.
$\begin{bmatrix} PANEL CONNECTED LOAD \\ PANEL CONNECTED PANEL \\ PANEL PANEL \\ PANEL PANE$	SOLID NEUTR EOUIPMENT G	D	BØ <u>6.8</u> CØ <u>5.7</u>	ON KEY	GNATION KE	PANEL DESI	

LOCATION: ELECTRICAL ROOM - HUT 301NB VOLTAGE: 480/277V, 3Ø, 4W PANEL MOUNTING: SURFACE PANEL ENCLOSURE (NEMA): 1 PANEL MIN. A. I.C. RATING:65 KA									
KVA CØ	DESCRIPTION	CIR. BKR.	CIR. No.						
7.7	DP-2 (RAMP 301 SB)	100	2 4 6						
-	SURGE PROTECTIVE DEVICE	40	8 10 12						
			14						
			16						
			18 20						
			20						
			24						
			26						
			28						
			30						
			32						
ļ			34						
			36						
			38 40						
			40						
7.7	TOTAL		<u>'</u> ∠						
•	BUS ND BUS								

PANI PANI	TAGE:120/208V, 3Ø, 4W EL MOUNTING:SURFACE EL ENCLOSURE (NEMA):1 EL MIN. A.I.C. RATING:10	KA		
(VA CØ	DESCRIPTION	CIR. BKR.	CIR. No.	
-	SPARE	15	2 4 6	
	ACC-1	30	8 10	
-	ACC-2 (STAND BY)	30	<i>12</i> <i>14</i>	
2.0	ACC-3	30	16 18	
	CLEAN AGENT PANEL	20	20	(1)
2.0	GENERATOR BLOCK HEATER	30	22 24	
	GENERATOR BATT. CHARGER	20	26	
			28	
			30	
			32	
			34	
			36	
			38	
			40	
			42	
4. 0 TRAL GROU	TOTAL BUS ND BUS			

PA		NEL DESIGNATION UPP-1 WAIN BUS RATING: 225A MAIN RATING: 60A MCB TYPE: - NUMBER OF POLES: 42 MAIN BUS RATING: 225A MAIN RATING: 60A MCB LOCATION: ETC ROOM - HUT 301N VOLTAGE: 120/208V, 3Ø, 4W PANEL MOUNTING: SURFACE PANEL ENCLOSURE (NEMA): 1 PANEL MIN. A. I.C. RATING: 10 K											
CIR. No.	CIR. BKR.		DESCRIPTION	LO AØ	AD - BØ	KVA CØ		LOA	D - К ВØ	VA CØ	DESCRIPTION	CIR. BKR.	CIR.
				ДØ	DØ		│ ╞	Αψ	DΨ				
1				_			-	-					2
3								_					4
5													6 8
9													10
9 11							-						12
13													14
15													16
17							-						18
19							-						20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39											SURGE PROTECTIVE DEVICE	40	40
41											(SPD)		42
			TOTAL								TOTAL		•
AØ		NNECTED LOA	υ					SOL IL EOU IF FEED	) NEU PMENT THRU	TRAL GROL LUGS	BUS IND BUS		

(1) PROVIDE LOCKDOG ON CIRCUIT BREAKER HANDLE.

US	301
MARYLAND	STATE LINE
TO LEVE	LS ROAD

		FOR INFORMATION ONLY (BY OTHERS)					
		8⁄07⁄15	E-	07			
CONTRACT	BRIDGE NO.			SHEET NO.			
T200811301		ELECTRICAL		839			
COUNTY	DESIGNED BY: JLG	PANEL SCHEDUL	ES	TOTAL SHTS.			
NEW CASTLE	CHECKED BY: RAK			850			

DP:-	2 N 2 M	YPE: - IUMBER OF PO IAIN BUS RAT IAIN RATING:	' I NG <b>:</b> 225A				VOLTA PANEL PANEL	ION: ELECTRICAL ROOM GE:480/277V, 3Ø, 4W MOUNTING:SURFACE ENCLOSURE (NEMA):1 MIN. A.I.C. RATING:				PANE	L DESIGNATION UPP-3	TYPE: - NUMBER OF P MAIN BUS RA MAIN RATING	T I NG: 225A	4
CIR. CIR. No. BKR.	DE	SCRIPTION	LOAD AØ B(		LOA AØ	4D - KI   BØ	VA CØ	DESCRIPTION	CIR. CIF BKR. No.		C No	IR. (	CIR. BKR.	DESCRIPTION	LOAD - AØ BØ	
<u>1</u> 3 30 15	5 KVA XFMR (L	UPS)	4.0	)	3.2	4.8	3	O KVA XFMR (PP-2)	50 <u>2</u>			1 3			-	+
5				4.0			3.7		6			5				+
9 40 SL	IRGE PROTECT	IVE DEVICE				-	5	PARE	30 <u>8</u> 30 10	2		9				$\pm$
11 (S 13				-	┤		-		12			1 3				+
15									16	5	1	5				+
17 19					┤				18			7 9				+
21 23									22			?1 ?3				$\mp$
25									26	5	2	?5				
27 29					┤				28 30			?7 ?9				+
31									32	?	3	31				1
<i>33</i> <i>35</i>									34 36	5		33 35				$\pm$
<i>37</i> <i>39</i>									38 40		3	37 39				$\overline{+}$
41			4.0 4.0			4.8			42			1		ΤΟΤΑΙ		$\pm$
PANEL DEST	N N	YPE: - IUMBER OF PO IAIN BUS RAT	LES: 42 ING: 225A				LOCAT VOLTA PANEL	ION: ELECTRICAL ROOM GE:120/208V, 3Ø, 4W MOUNTING:SURFACE	- ' 301 SB'							
PP	2 N M M		ING: 225A 100A MCB LOAD	- KVA		4D - K	PANEL PANEL VA	ION: ELECTRICAL ROOM GE: 120/208V, 3Ø, 4W MOUNTING: SURFACE ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION	10 KA					(1) PROVIDE	LOCKDOG C	ON
PP C IR. C IR. No. BKR. 1 20 SF	2 N M M DE PARE	UMBER OF PO MAIN BUS RAT MAIN RATING:	ING: 225A 100A MCB LOAD AØ BQ	- KVA	LOA AØ -	<u>4D - K</u>	PANEL PANEL VA CØ	ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION	10 KA CIR. CIF BKR. No. 2	<b>R.</b>				(1) PROVIDE	LOCKDOG C	ON
PP CIR. CIR. No. BKR. 1 20 SF 3 20 SF	2 N M M DE	UMBER OF PO AIN BUS RAT AIN RATING: SCRIPTION	ING: 225A 100A MCB LOAD	- KVA	- -	4D - K BØ -	PANEL PANEL VA CØ	ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING:	10 KA CIR.CIF BKR.No.	R.				(1) PROVIDE	LOCKDOG C	ON
PP C I R. C I R. No. BK R. 1 20 SF 3 20 SF 5 20 ET 7 20 EL	2 N M M DE DE DE DE DE DE C C ROOM LIGHT EC RM/EXTER	UMBER OF PO AIN BUS RAT AIN RATING: SCRIPTION SCRIPTION TING IOR LTG	ING: 225A 100A MCB LOAD AØ BQ - - - 0. 2	- KVA Ø CØ 0.3		4D - K BØ -	PANEL PANEL VA CØ -	ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION	10 KA CIR. CIF BKR. No. 15 4 6	P.				(1) PROVIDE	LOCKDOG C	ON
PP CIR. CIR. No. BKR. 1 20 SF 3 20 SF 5 20 ET 7 20 EL 9 20 RE 11 20 RE	2 2 DE DE DE DE DE DE DE DE C C ROOM LIGHT EC RM/EXTER CEPT - ETC F CEPT - ETC F	UMBER OF PO AIN BUS RAT AIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM	ING: 225A 100A MCB LOAD AØ B( - - - 0. 2 0. 4	- KVA Ø CØ 0.3	- -	4D - K BØ -	PANEL PANEL VA CØ S - A	ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE	10 KA CIR. CIF BKR. No. 15 4 6 30 8 10 12	P.				(1) PROVIDE	LOCKDOG C	ON
PP CIR. CIR. BKR. 1 20 SF 3 20 SF 3 20 EI 7 20 EL 9 20 RE 11 20 RE 13 20 RE 15 20 RE	2 PARE PARE C ROOM L IGHT EC RM/EXTER CEPT - ETC F CEPT - ELEC CEPT - OUTDO	IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM RM/OUTDOOR	ING: 225A 100A MCB LOAD AØ B( - - - 0. 2 0. 4	- KVA Ø CØ 0.3 0.4	- -	4D - K BØ - 2.0 2.0	PANEL PANEL VA CØ S - A - A	ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY)	$ \begin{array}{c} 10  KA \\ \hline C \ IR. \\ BKR. \\ No. \\ \hline 15 \\ 4 \\ \hline 6 \\ \hline 30 \\ \hline 10 \\ \hline 30 \\ 14 \\ \hline 70 \\ \hline 16 \\ \hline 16 \\ \hline 70 \\ \hline 16 \\ \hline 16 \\ \hline 16 \\ \hline 10 \\ \hline 16 \\ $	P.				(1) PROVIDE	LOCKDOG C	ON
PP CIR. CIR. No. BKR. 1 20 SF 3 20 SF 5 20 ET 7 20 EL 9 20 RE 11 20 RE 13 20 RE 13 20 RE 15 20 RE 17 15 SF	2 PARE PARE PARE C ROOM LIGHT EC RM/EXTER CEPT - ETC F CEPT - ELEC CEPT - OUTDO PARE	IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM RM/OUTDOOR	ING: 225A 100A MCB LOAD AØ B( - - - 0.2 0.4 0.4 0.8	- KVA Ø CØ 0.3 0.4	AØ - 2.0 -	4D - K BØ - 2.0 2.0	PANEL PANEL VA CØ - - A 2.0	ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3	$ \begin{array}{c} 10  KA \\ \hline C \ IR. \\ BKR. \\ No. \\ \hline 15 \\ 4 \\ \hline 6 \\ \hline 30 \\ \hline 12 \\ \hline 30 \\ 14 \\ \hline 30 \\ 16 \\ \hline 18 \\ \hline 18 \\ \hline \end{array} $	P.				(1) PROVIDE	LOCKDOG C	ON
PP CIR. CIR. No. BKR. 1 20 SF 3 20 SF 3 20 EI 7 20 EL 9 20 RE 11 20 RE 13 20 RE 13 20 RE 15 20 RE 15 20 SF 19 20 SF 21 20 SF	2 2 2 2 2 2 2 2 2 2 2 2 2 2	IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM RM/OUTDOOR	ING: 225A 100A MCB LOAD AØ B( - - - 0.2 0.4 0.4 0.8	- KVA Ø CØ 0.3 0.4	- -	4D - K BØ - 2.0 2.0	PANEL PANEL VA CØ - - A 2.0	ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY)	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	P. P. P. P. P. P. P. P. P. P.				(1) PROVIDE	LOCKDOG C	ON
PP CIR. CIR. BKR. 1 20 SF 3 20 SF 3 20 EI 7 20 EL 9 20 RE 11 20 RE 13 20 RE 13 20 RE 13 20 RE 14 20 SF 21 20 SF 23 20 SF 25 20 SF	2 2 2 2 2 2 2 2 2 2 2 2 2 2	IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM RM/OUTDOOR	ING: 225A 100A MCB LOAD AØ B( - - - 0.2 0.4 0.4 0.8	- KVA Ø CØ 0.3 0.4	AØ - 2.0 -	4D - K BØ - 2.0 2.0	PANEL PANEL VA CØ - - A 2.0	ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	R.       R. <td></td> <td></td> <td></td> <td>(1) PROVIDE</td> <td>LOCKDOG C</td> <td>ON</td>				(1) PROVIDE	LOCKDOG C	ON
PP CIR. CIR. BKR. 1 20 SF 3 20 SF 3 20 EI 7 20 EL 9 20 RE 11 20 RE 13 20 RE 13 20 RE 13 20 RE 13 20 SF 21 20 SF 23 20 SF 23 20 SF 27 20 SF	2 2 2 2 2 2 2 2 2 2 2 2 2 2	IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM RM/OUTDOOR	ING: 225A 100A MCB LOAD AØ B( - - - 0.2 0.4 0.4 0.8	- KVA Ø CØ 0.3 0.4	AØ - 2.0 -	4D - K BØ - 2.0 2.0	PANEL PANEL VA CØ - - A 2.0	ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	R.       P.       P. <td></td> <td></td> <td></td> <td>(1) PROVIDE</td> <td>LOCKDOG C</td> <td>ON</td>				(1) PROVIDE	LOCKDOG C	ON
PP         CIR.       CIR.         No.       BKR.         1       20       SF         3       20       SF         3       20       SF         5       20       ET         7       20       EL         9       20       RE         11       20       RE         13       20       RE         15       20       RE         17       15       SF         19       20       SF         23       20       SF         23       20       SF         25       20       SF         27       20       SF         31       20       SF	2 N 2 DE DE DE DE DE DE DE DE DE DE	IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM RM/OUTDOOR	ING: 225A 100A MCB LOAD AØ B( - - - 0.2 0.4 0.4 0.8	- KVA Ø CØ 0.3 0.4	AØ - 2.0 -	4D - K BØ - 2.0 2.0	PANEL PANEL VA CØ - - A 2.0	ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	R.       R. <td></td> <td></td> <td></td> <td>(1) PROVIDE</td> <td>LOCKDOG C</td> <td>ON</td>				(1) PROVIDE	LOCKDOG C	ON
PP         CIR.       CIR.         No.       BKR.         1       20       SF         3       20       SF         3       20       SF         5       20       E1         7       20       EL         9       20       RE         11       20       RE         13       20       RE         15       20       RE         17       15       SF         19       20       SF         23       20       SF         23       20       SF         24       20       SF         25       20       SF         27       20       SF         31       20       SF         33       20       SF         35       20       SF	2 N 2 DE DE DE DE DE DE DE DE DE DE	IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM RM/OUTDOOR	ING: 225A 100A MCB LOAD AØ B( - - - 0.2 0.4 0.4 0.8	- KVA Ø CØ 0.3 0.4	AØ - 2.0 -	4D - K BØ - 2.0 2.0	PANEL PANEL VA CØ - - A 2.0	ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	R.       R. <td></td> <td></td> <td></td> <td>(1) PROVIDE</td> <td>LOCKDOG C</td> <td>ON</td>				(1) PROVIDE	LOCKDOG C	ON
PP         CIR.       CIR.         No.       BKR.         1       20       SF         3       20       SF         3       20       SF         5       20       EI         7       20       EL         9       20       RE         11       20       RE         13       20       RE         13       20       RE         14       20       RE         15       20       RE         17       15       SF         19       20       SF         21       20       SF         23       20       SF         24       20       SF         25       20       SF         27       20       SF         31       20       SF         33       20       SF         33       20       SF         37       20       SF         37       20       SF	2 N 2 DE DE DE DE DE DE DE DE DE DE	IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM RM/OUTDOOR	ING: 225A 100A MCB LOAD AØ B( - - - 0.2 0.4 0.4 0.8	- KVA Ø CØ 0.3 0.4	AØ - 2.0 -	4D - K BØ - 2.0 2.0	PANEL PANEL VA CØ - - A 2.0	ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	R.				(1) PROVIDE	LOCKDOG (	ON
PP         CIR.       CIR.         No.       BKR.         1       20       SF         3       20       SF         3       20       SF         5       20       EI         7       20       EL         9       20       RE         11       20       RE         13       20       RE         13       20       RE         14       20       RE         15       20       RE         17       15       SF         19       20       SF         21       20       SF         23       20       SF         24       20       SF         25       20       SF         27       20       SF         31       20       SF         33       20       SF         33       20       SF         35       20       SF         37       20       SF	2 N 2 N M M M M M M M M M M M M M	IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM ROOM RM/OUTDOOR DOR	I NG: 225A         100A       MCB         LOAD         AØ       BQ         -       -         0.2       -         0.2       0.4         0.8       -         0.8       -         0.4       -         0.5       -         0.6       -         0.7       -         0.8       -         0.8       -         0.9       -         1.9	- KVA 0 CØ 0.3 0.4 - 0.4 - 0.4 - 1.0		AD - K BØ - 2.0 2.0	PANEL PANEL VA CØ S - A 2.0 C 0 C 0 0 0 0 0 0 0 0 0 0 0 0 0	ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3 LEAN AGENT PANEL	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	R.         R.         P.				(1) PROVIDE	LOCKDOG C	ON
PP         CIR.       CIR.         No.       BKR.         1       20       SF         3       20       SF         3       20       SF         5       20       E1         7       20       EL         9       20       RE         11       20       RE         13       20       RE         15       20       RE         17       15       SF         19       20       SF         21       20       SF         23       20       SF         24       20       SF         25       20       SF         27       20       SF         33       20       SF         37       20       SF         39       20       SF         39       20       SF         39       20       SF         39       20       SF </td <td>2 N 2 N M M M M M DE DE DE DE DE DE DE DE DE DE</td> <td>IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM ROOM RM/OUTDOOR DOR</td> <td>ING: 225A 100A MCB LOAD AØ BQ - - 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4</td> <td>- KVA 0 CØ 0.3 0.4 - - - - - - - - - - - - -</td> <td></td> <td>AD - K BØ - 2.0 2.0 2.0 4.0</td> <td>PANEL PANEL VA CØ - A - A 2.0 C - A 2.0 C - A - A - A - A - A - A - A - A - A - A - - A - - A - - A - - - - - - - - - - - - -</td> <td>ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3 LEAN AGENT PANEL</td> <td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td> <td>R.         R.         P.         P.</td> <td></td> <td></td> <td></td> <td>(1) PROVIDE</td> <td>LOCKDOG (</td> <td>ON</td>	2 N 2 N M M M M M DE DE DE DE DE DE DE DE DE DE	IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM ROOM RM/OUTDOOR DOR	ING: 225A 100A MCB LOAD AØ BQ - - 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	- KVA 0 CØ 0.3 0.4 - - - - - - - - - - - - -		AD - K BØ - 2.0 2.0 2.0 4.0	PANEL PANEL VA CØ - A - A 2.0 C - A 2.0 C - A - A - A - A - A - A - A - A - A - A - - A - - A - - A - - - - - - - - - - - - -	ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3 LEAN AGENT PANEL	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	R.         R.         P.				(1) PROVIDE	LOCKDOG (	ON
PP         CIR. No.       CIR. BKR.         1       20       SF         3       20       SF         5       20       ET         7       20       EL         9       20       RE         11       20       RE         13       20       RE         14       20       RE         15       20       RE         17       155       SF         19       20       SF         21       20       SF         23       20       SF         23       20       SF         24       20       SF         25       20       SF         27       20       SF         33       20       SF         37       20       SF         39       20       SF         39       20       SF         39       20       SF         39	2 N 2 N M M M M M DE DE DE DE DE DE DE DE DE DE	IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM ROOM RM/OUTDOOR DOR	I NG: 225A         100A       MCB         LOAD         AØ       BQ         -       -         0.2       -         0.2       0.4         0.8       -         0.8       -         0.4       -         0.5       -         0.6       -         0.7       -         0.8       -         0.8       -         0.9       -         1.9	- KVA 0 CØ 0.3 0.4 - - - - - - - - - - - - -	AØ - 2.0 - 0.2 -	AD - K BØ - 2.0 2.0 2.0 4.0	PANEL PANEL VA CØ - A - A 2.0 C - A 2.0 C - A - A - A - A - A - A - A - A - A - A - - A - - A - - A - - - - - - - - - - - - -	ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3 LEAN AGENT PANEL	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	R.         R.         P.				(1) PROVIDE	LOCKDOG	ON
PP         CIR.       CIR.         No.       BKR.         1       20       SF         3       20       SF         3       20       SF         5       20       EI         9       20       RE         11       20       RE         13       20       RE         14       20       RE         15       20       RE         17       15       SF         19       20       SF         21       20       SF         23       20       SF         24       20       SF         25       20       SF         31       20       SF         33       20       SF         34       20       SF         35       20       SF         37       20       SF         39       20       SF	2 N 2 N M M M M M DE DE DE DE DE DE DE DE DE DE	IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM ROOM RM/OUTDOOR DOR	I NG: 225A         100A       MCB         LOAD         AØ       BQ         -       -         0.2       -         0.2       0.4         0.8       -         0.8       -         0.4       -         0.5       -         0.6       -         0.7       -         0.8       -         0.8       -         0.9       -         1.9	- KVA 0 CØ 0.3 0.4 - - - - - - - - - - - - -	AØ - 2.0 - 0.2 -	AD - K BØ - 2.0 2.0 2.0 4.0	PANEL PANEL VA CØ - A - A 2.0 C - A 2.0 C - A - A - A - A - A - A - A - A - A - A - - A - - A - - A - - - - - - - - - - - - -	ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3 LEAN AGENT PANEL	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	R.         R.         P.				(1) PROVIDE	LOCKDOG	ON
PP         CIR. No.       CIR. BKR.         1       20       SF         3       20       SF         3       20       SF         5       20       ET         7       20       EL         9       20       RE         11       20       RE         13       20       RE         14       20       RE         15       20       RE         17       15       SF         19       20       SF         21       20       SF         23       20       SF         24       20       SF         25       20       SF         27       20       SF         31       20       SF         33       20       SF         33       20       SF         37       20       SF         37       20       SF         39       20       SF         37       20       SF         39       20       SF         39       20       SF         39 <t< td=""><td>2 N 2 N M M M M M DE DE DE DE DE DE DE DE DE DE</td><td>IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM ROOM RM/OUTDOOR DOR</td><td>I NG: 225A         100A       MCB         LOAD         AØ       BQ         -       -         0.2       -         0.2       0.4         0.8       -         0.8       -         0.4       -         0.5       -         0.6       -         0.7       -         0.8       -         0.8       -         0.9       -         1.9</td><td>- KVA 0 CØ 0.3 0.4 - - - - - - - - - - - - -</td><td>AØ - 2.0 - 0.2 -</td><td>AD - K BØ - 2.0 2.0 2.0 4.0 4.0</td><td>PANEL         PANEL         VA         CØ         -         -         2.0         C         -      <t< td=""><td>ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3 LEAN AGENT PANEL</td><td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td>R.         R.         P.         P.</td><td></td><td></td><td></td><td>(1) PROVIDE</td><td>LOCKDOG</td><td>ON</td></t<></td></t<>	2 N 2 N M M M M M DE DE DE DE DE DE DE DE DE DE	IUMBER OF PO IAIN BUS RAT IAIN RATING: SCRIPTION SCRIPTION IOR LTG ROOM ROOM ROOM RM/OUTDOOR DOR	I NG: 225A         100A       MCB         LOAD         AØ       BQ         -       -         0.2       -         0.2       0.4         0.8       -         0.8       -         0.4       -         0.5       -         0.6       -         0.7       -         0.8       -         0.8       -         0.9       -         1.9	- KVA 0 CØ 0.3 0.4 - - - - - - - - - - - - -	AØ - 2.0 - 0.2 -	AD - K BØ - 2.0 2.0 2.0 4.0 4.0	PANEL         PANEL         VA         CØ         -         -         2.0         C         - <t< td=""><td>ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3 LEAN AGENT PANEL</td><td><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td>R.         R.         P.         P.</td><td></td><td></td><td></td><td>(1) PROVIDE</td><td>LOCKDOG</td><td>ON</td></t<>	ENCLOSURE (NEMA): 1 MIN. A. I.C. RATING: DESCRIPTION PARE CC-1 CC-2 (STAND BY) CC-3 LEAN AGENT PANEL	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	R.         R.         P.				(1) PROVIDE	LOCKDOG	ON

REVISED: 312/20 343 – DELDOT U r S

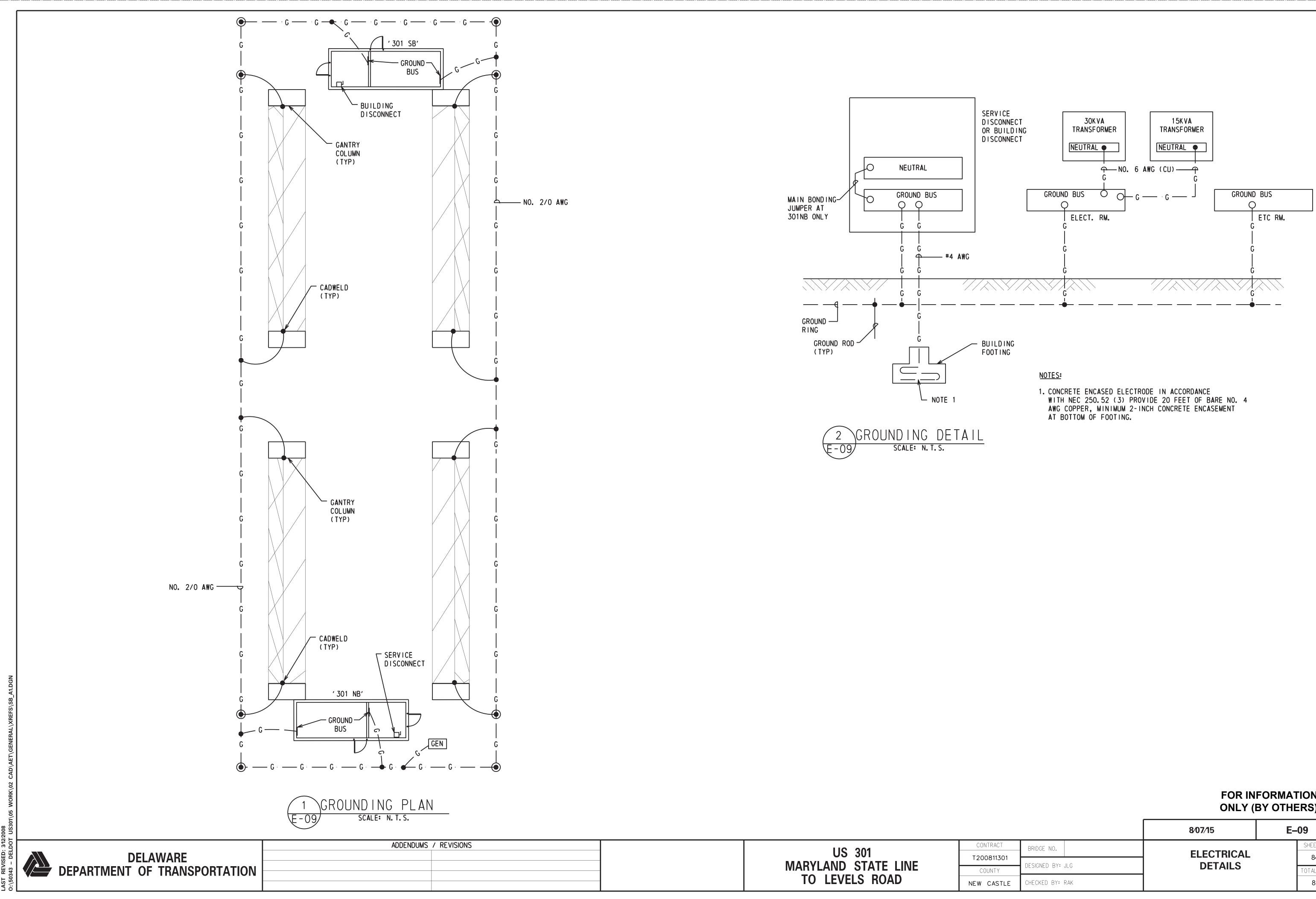
SCRIPTION	CIR. BKR.	CIR. No.
(FMR (PP-2)	50	2 4 6
	30	8 10 12
		14
		16 18
		20
		22
		24
		26
		28
		30
		32
		34 36
		38
		40
		40 42

SURE (NEMA): 1 A. I.C. RATING:10 SCRIPTION	KA CIR. BKR.	CIR. No.	
	15	2 4	
		4 6	
		8	
	30	10	
		12	
STAND BY)	30	14	
		16	
	30	18	
GENT PANEL	20	20	(1
	20	22	
		24	
		26	
		28	
		30	
		32	
		34	
		36	
		38	
		40	
		42	

PAN		EL DESIGNATION UP:P-3 MAIN BU MAIN R.		ING: 2	225A			LOCATION: ETC ROOM - '301 SB' VOLTAGE: 120/208V, 3Ø, 4W PANEL MOUNTING: SURFACE PANEL ENCLOSURE (NEMA): 1 PANEL MIN. A.I.C. RATING:10 KA							
CIR. No.	CIR. BKR.		DESCRIPTION		AD -			D - K		DESCRIPTION	CIR. BKR.	CIF			
////	DAN.			AØ	BØ	CØ	AØ	ΒØ	CØ		DRN.	_			
7				_			-								
3				-			-					4			
5 7												6			
9												<i>E</i>			
<del>9</del> 11												1			
13												1			
15												1			
17												1			
19												20			
21												2			
23												2			
25												2			
27												2			
29												3			
31												3.			
33												3.			
35												3			
37												38			
39										SURGE PROTECTIVE DEVICE	40	4(			
41												42			
		INECTED LOAL	n TOTAL [							JTOTAL					
AØ _ BØ _		OTAL	-			=	SOL II EOU II FEED	D NEU PMENT THRU	TRAL GROU LUGS	BUS IND BUS					

BREAKER HANDLE.

		_	FORMATION BY OTHERS)	
		8⁄07⁄15	E–08	
24	BRIDGE NO.	ELECTRICAL	SHEET	
)1	DESIGNED BY: JLG	PANEL SCHEDUL	.ES	
LE	CHECKED BY: RAK		850	)



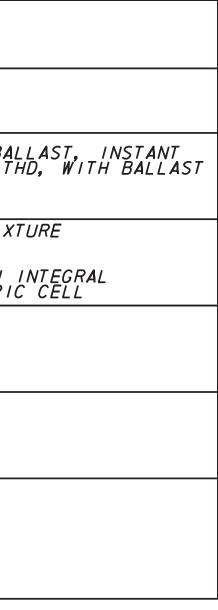
				FORMATION BY OTHERS)
			8⁄07⁄15	E–09
	CONTRACT	BRIDGE NO.		SHEET NO.
			ELECTRICAL	841
MARYLAND STATE LINE	COUNTY	DESIGNED BY: JLG	DETAILS	TOTAL SHTS.
TO LEVELS ROAD	NEW CASTLE	CHECKED BY: RAK		850

FIXTURE	MANUFACTURER AND			SYSTEM			LAMP	MOUNT ING				INPUT WATTS		DESCRIPTION	
TYPE	MANUFACTURER AND CATALOG NO.	VOL T	INCAND.			NO.	WATTS	SURF. RECESS WA		WALL	OTHER	WATTS	NOTES	DESCRIPTION	REMARKS
' A'	LITHONIA 'AFST' SERIES	120/277		•		3	32W T8	•				87	1	HEAVY DUTY INDUSTRIAL, SOLID REFLECTOR	ELECTRONIC BAL START & 10% TH DISCONNECT
' B'	LITHONIA 'TWF1' SERIES	120		•		2	26W DTT					49	1	EXTERIOR ARHCITECTURAL WALL PACK, POLYCARBONATE LENS, DIE-CAST METAL BEZEL, DARK BRONZE FINISH UL LISTED FOR WET LOCATIONS	BOTTOM OF FIXT MOUNTED AT 7'-O" AFG PROVIDE WITH I PHOTO ELECTRIC
′EM′	LITHONIA 'ELM' SERIES	120/277	•			2	9W KRYPTON			•		8	1	THERMOPLASTIC EMERGENCY UNIT, DUAL HEADS, HIGH CAPACITY 54W OUTPUT	-
' RH'	LITHONIA 'ELA' SERIES	120/277	•			2	9W KYRPTON			•		-	1	THERMOPLASTIC EMERGENCY REMOTE TWIN HEAD, 6 VOLT KRYPTON LAMPS.	-
NOTES:															

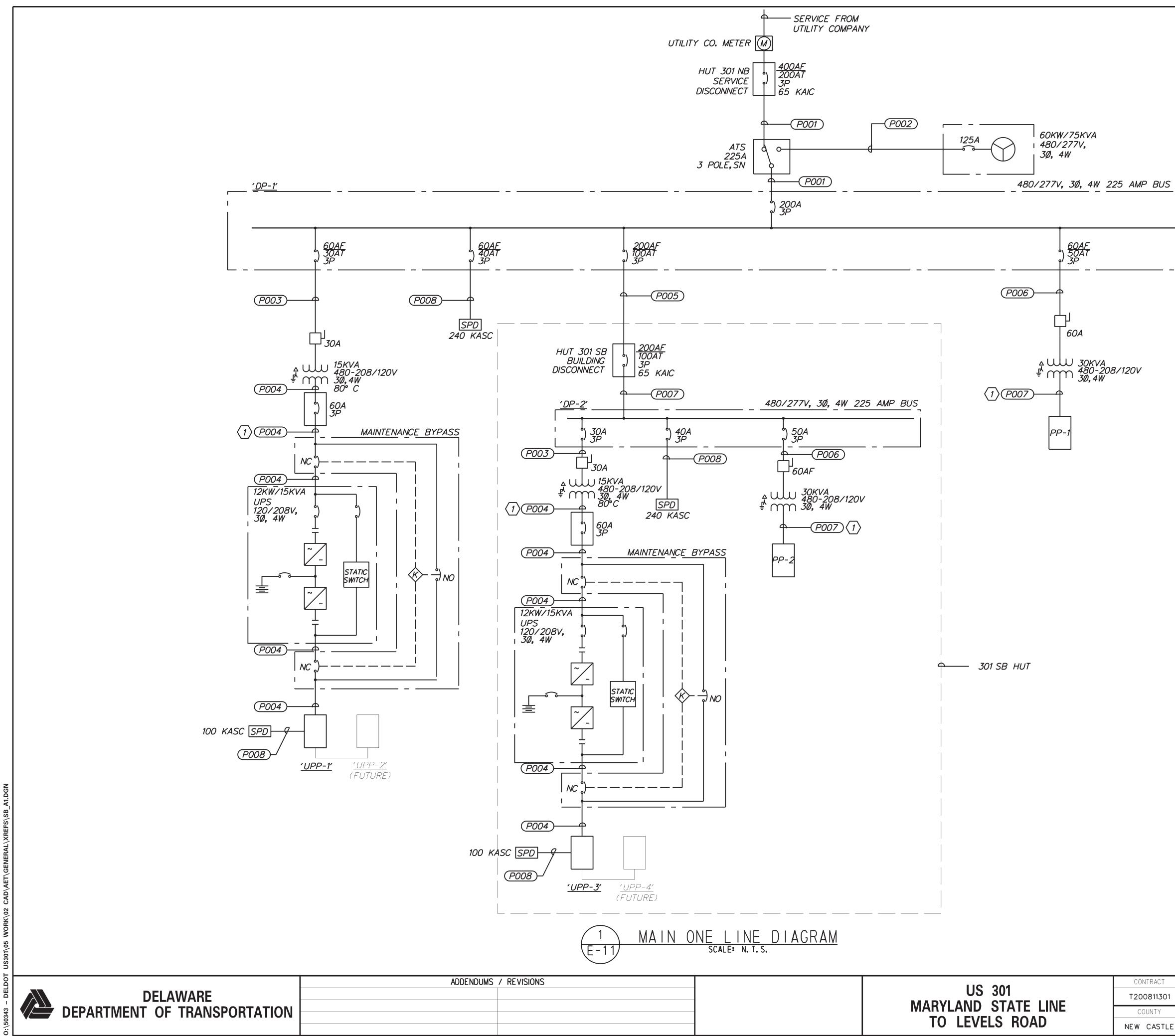
# DELAWARE EPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

				8⁄07⁄15	E–1	10
5		CONTRACT	BRIDGE NO.			SHEET NO.
	US 301	T200811301		ELECTRICAL		842
	MARYLAND STATE LINE	COUNTY	DESIGNED BY: JLG	LUMINAIRE SCHED	ULE	TOTAL SHTS.
	TO LEVELS ROAD	NEW CASTLE	CHECKED BY: RAK			850



# FOR INFORMATION ONLY (BY OTHERS)



	F	EEDER SCHEDULE
CABLE	SIZE	WIRE
P001	2″	4-1/C NO. 3/0 AWG & NO. 4 GND
P002	DUCT BANK	4-1/C NO. 1/0 AWG & NO. 4 GND
P003	<u>3/</u> "	3-1/C NO. 10 AWG & NO. 10 GND
P004	1-1/2″	4-1/C NO. 4 AWG & NO. 8 GND
P005	DUCT BANK	4-1/C NO. 2/0 AWG & NO. 4 GND
P006	1″	3-1/C NO. 6 AWG & NO. 10 GND
P007	1-1/2″	4-1/C NO. 1 AWG & NO. 6 GND
P008	1″	4-1/C NO. 6 AWG & NO. 6 GND

301 NB

KEY NOTES:

(1) MAXIMUM CONDUCTOR LENGTH 25 FEET.

		_	FORMA1 BY OTHE	-
		8⁄07⁄15	E-	-11
ONTRACT	BRIDGE NO.			SHEET NO.
00811301 County	DESIGNED BY: JLG	ELECTRICAL	GRAM	843 Total shts.
CASTLE	CHECKED BY: RAK			850

## LEGEND:

Ţ	GROUND CONNECTION
	CONDUIT - EXPOSED
<u> </u>	CONDUIT - EMBEDDED
<b></b>	CONDUIT - TURNED DOWN
o	CONDUIT - TURNED UP

Α *A.C.* A/C ADJ. AE A.F.F. A.F.G A. I. C. A. T. S.

AUTO AVI AWG BCC BLDG. С

CB С.Р.

CNTL CONTR COTB.

CNTOR

D.C. DE DIA.

D.S. E.C.

EM. EMB. *E*.*P*. ETC EXH.

F**.** A. FT.

FU. *G.C.* G.F.I. GRD. H.I.D. HP

H.P.S.

HVAC

HTR.

1.G. *I.M.C.* 

IN.

JB

KW.

LTG. MIN.

М. Н. *M.L.O.* 

MTD.

MCB *M.C.S.* 

NB

N. C.

NF

POWER OR CONTROL PULLBOX

## ABBREVIATIONS:

AMPERE ALTERNATING CURRENT AIR CONDITIONING ADJACENT AUTOMATIC ENTRY ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AMPERE INTERRUPTING CAPACITY AUTOMATIC TRANSFER SWITCH AUTOMATIC VEHICLE IDENTIFICATION AMERICAN WIRE GAUGE	N.I.C. N.O. No. N.T.S. O.C. OH PNL. PWR PVC PCRMC R.G.S. SB SCI	NOT IN CONTRACT NORMALLY OPEN NUMBER NOT TO SCALE ON CENTER OVERHEAD PANEL POWER CABLE/CONDUIT POLYVINYL CHLORIDE PVC-COATED RIGID METAL CON RIGID GALVANIZED STEEL SOUTHBOUND SIGN CONTROLLER INTERFACE
BOOTH CONTROL CENTER	SW	SWITCH
BUILDING	<i>T.B.</i>	TOLL BOOTH
CONDUIT	T.S. TVSS	TRAFFIC SIGNAL TRANSIENT VOLTAGE SURGE SI
CIRCUIT BREAKER CONTROL PANEL	TYP.	TYPICAL
CONTROL CABLE/CONDUIT	U.L.	UNDERWRITERS LABORATORIES
CONTRACTOR	U. N. O.	UNLESS NOTED OTHERWISE
CANOPY OVERRIDE TERMINATION BOX	UPS	UNINTERRUPTED POWER SUPP
CONTACTOR	V	VOLT
DIRECT CURRENT	VES	VEHICLE ENFORCEMENT SYSTE
DEDICATED ENTRY	W.P.	WEATHERPROOF
DIAMETER	X	EXIT
DISCONNECT SWITCH	PED. ACC.	PEDESTRIAN ACCESSWAY
ELECTRICAL CONTRACTOR		
EMERGENCY		
EMBEDDED		
EXPLOSION PROOF		
ELECTRONIC TOLL COLLECTOR		
EXHAUST		
FIRE ALARM		
FOOT, FEET		
FUSE GENERAL CONTRACTOR		
GENERAL CONTRACTOR GROUND FAULT INTERRUPTER		
GROUND FAULT INTERNOFTEN		
HIGH INTENSITY DISCHARGE		
HORSEPOWER		

	A1.DGN
	L\XREFS\SB_A1.DGN
	GENERAL
	:AD\AET\
	DELDOT US301/05 WORK/02 CAD\AET\GENERAI
008	US301\05 \
SEU: 3/12/2	DELDOT
REVISED	343 – D

DELAWARE **DEPARTMENT OF TRANSPORTATION** 

HIGH PRESSURE SODIUM

ISOLATED GROUND

MOUNTING HEIGHT

MAIN CIRCUIT BREAKER

MOLDED CASE SWITCH

MAIN LUG ONLY

NORTH BOUND

NONFUSIBLE

NORMALLY CLOSED

HEATER

KILOWATT LIGHTING

MINIMUM

MOUNTED

INCH

JB

HEAT-VENT-AIR CONDITIONING

INTERMEDIATE METAL CONDUIT

ADDENDUMS / REVISION

## <u>GENERAL NOTES:</u>

- 1. DRAWINGS ARE DIAGRAMMATIC IN NATURE, CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION. TO AVOID INTERFERENCE'S.
- FOR ACTUAL LOCATION OF EQUIPMENT.
- AND OPERABLE SYSTEM.
- GOVERNING LOCAL CODES, LAWS/OR REGULATIONS.

ONDUIT

SUPPRESSION

S

PPLY

TEM

IS	110 004	CONTE
	US 301	T2008
	MARYLAND STATE LINE	COUN
	TO LEVELS ROAD	NEW C

CONTRACTORS SHALL COORDINATE ALL WORK WITH OTHER DIVISION TRADES. LOCATE FIXTURES, DEVICES, ETC. IN ORDER

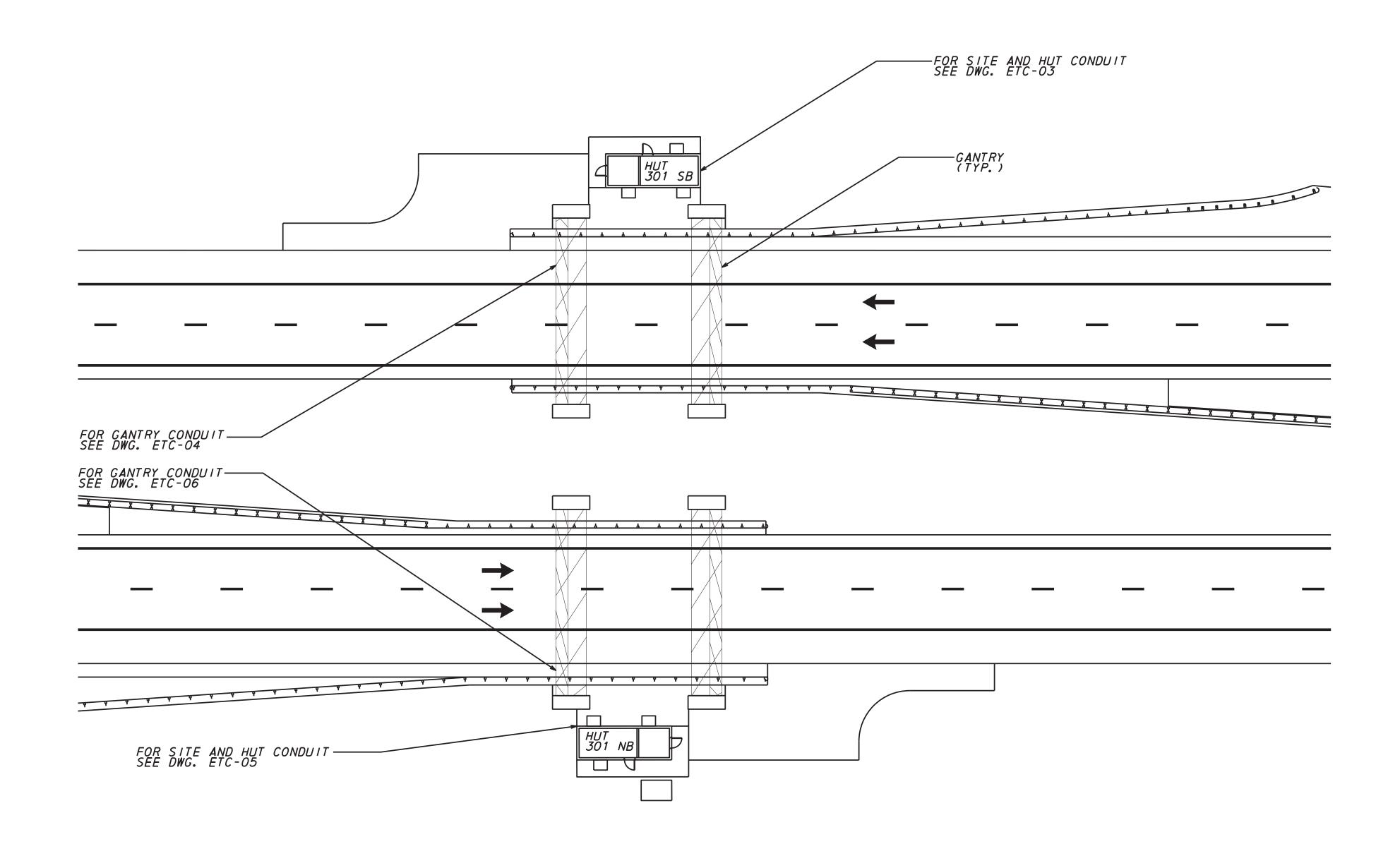
2. ARCHITECTURAL FEATURES SHOWN ON THESE DRAWINGS ARE FOR BACKGROUND INFORMATION ONLY. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ACTUAL BUILDING CONSTRUCTION OF WALLS AND CURBS. REFER TO MECHANICAL DRAWINGS

3. CONTRACTORS SHALL IN A WORKMANLIKE MANNER, PROVIDE A COMPLETE OPERABLE SYSTEM. OUTLINE DESCRIPTION AND DIAGRAMMATIC REPRESENTATION OF SYSTEM OPERATION AND EQUIPMENT DOES NOT LIMIT CONTRACTOR LIABILITY FOR INSTALLATION OF A COMPLETE

4. ALL WORK SHALL BE PERFORMED AS REQUIRED BY APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE, LATEST EDITION, AND ALL

5. ALL CONDUIT PENETRATIONS UP THROUGH GRADE AND THROUGH FOUNDATIONS SHALL BE PVC-COATED RIGID STEEL CONDUIT (PCRMC). ALL OTHER EXPOSED OUTDOOR CONDUITS SHALL BE GALVANIZED RIGID STEEL CONDUIT. MINIMUM SIZED DIAMETER SHALL BE 1" UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL UTILIZE THE CONDUIT MANUFACTURER'S RECOMMENDED SUPPORTS FOR ALL CONDUIT ROUTINGS.

			FOR INFORMATION ONLY (BY OTHERS)		
			8⁄07⁄15	ETC	C—01
CONTRACT	BRIDGE NO.				SHEET NO.
200811301			ETC		844
COUNTY	DESIGNED BY:	11R	LEGEND, SYMBO		TOTAL SHTS.
W CASTLE	CHECKED BY:	RAK	& ABBREVIATIO	NS	850



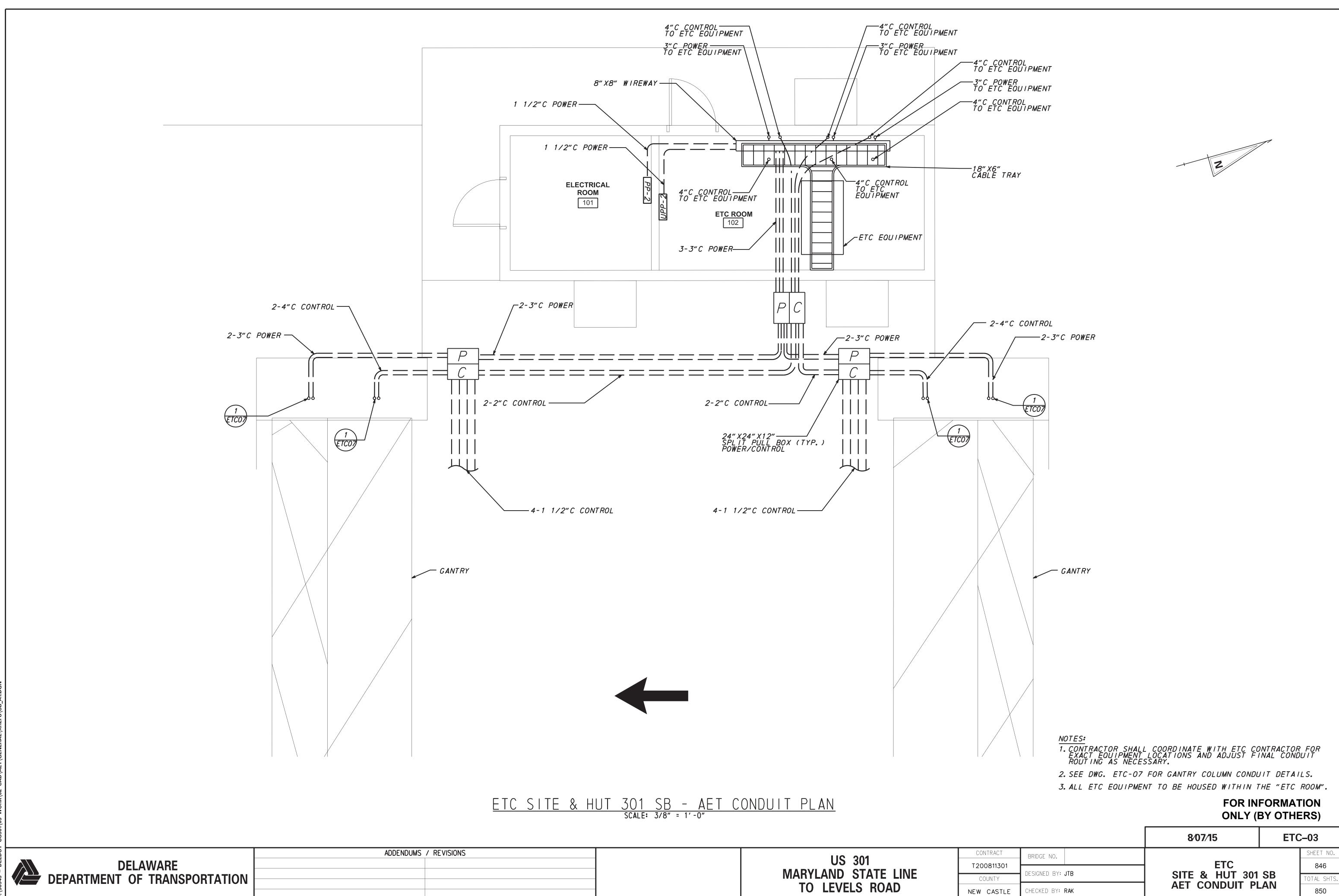


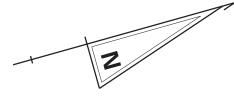
DELAWARE				
DEPARTMENT	OF	TRANSPORTATION		

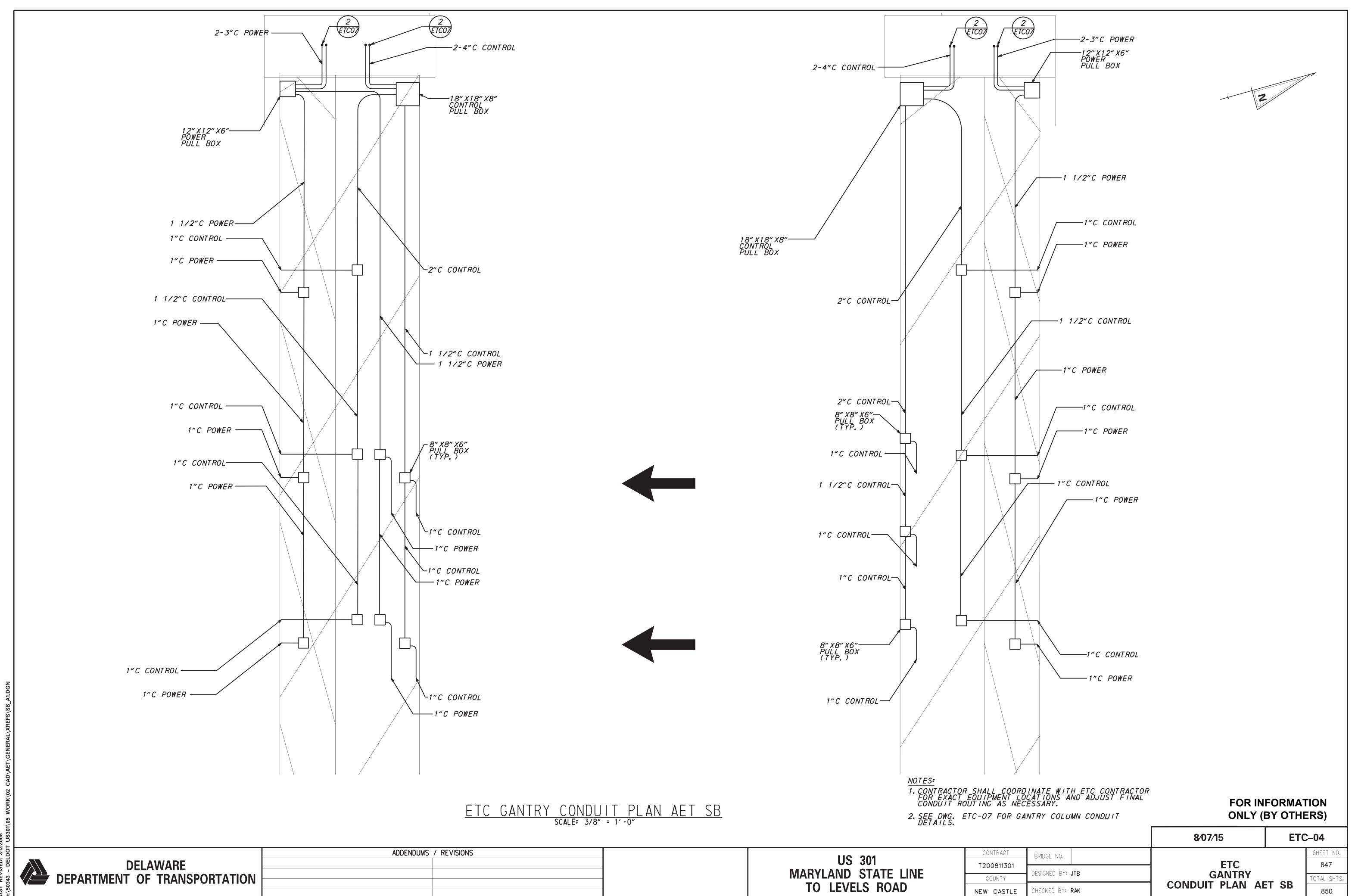
ADDENDUMS / REVISIONS

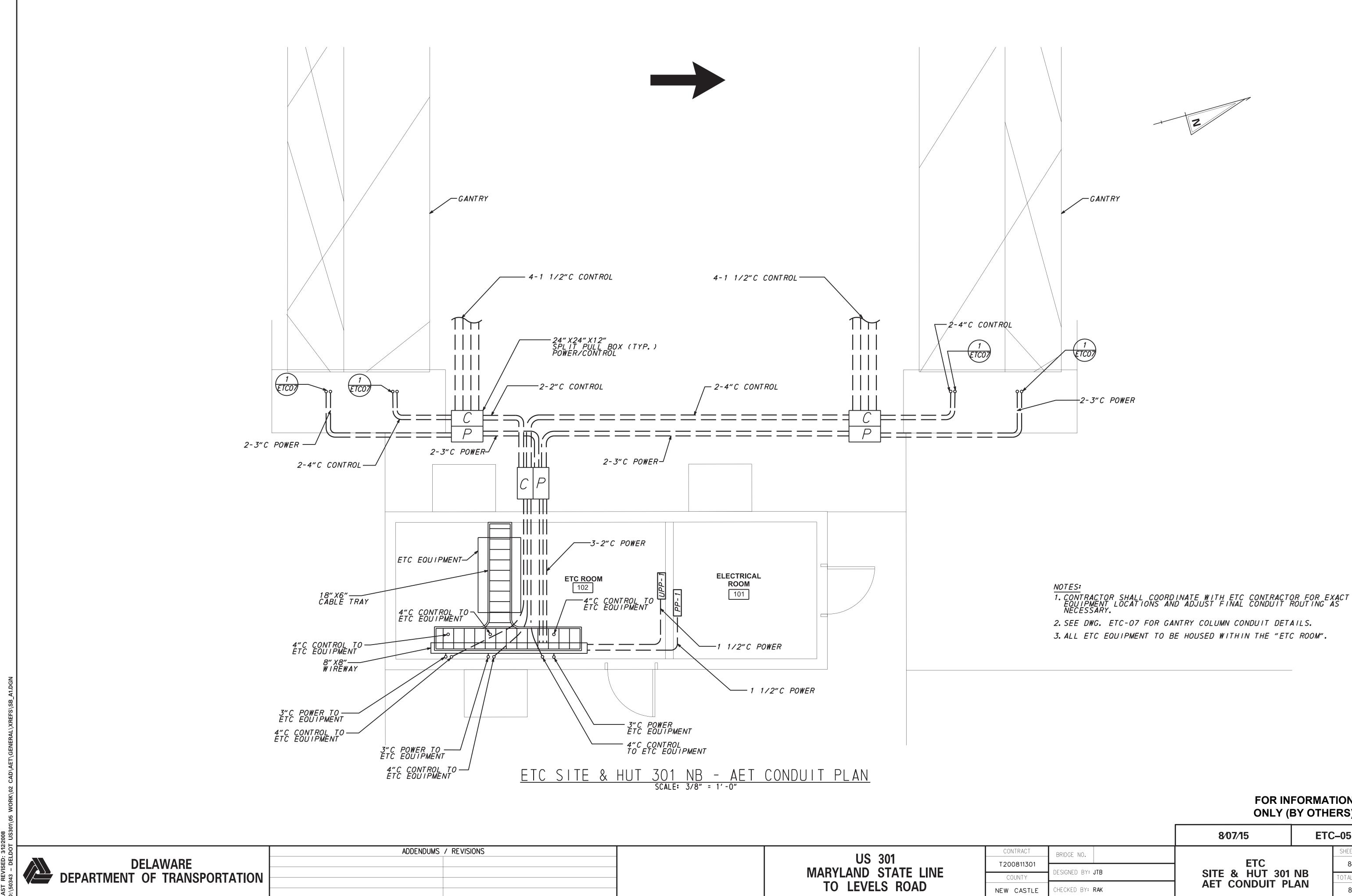
<u>SITE PLAN</u> scale: 1" = 20'-0		
5	110 001	CC
	US 301 MADVLAND STATE LINE	T20
	MARYLAND STATE LINE	(
	TO LEVELS ROAD	NEW

		UNET (	
		8⁄07⁄15	ETC-02
CONTRACT	BRIDGE NO.	ETC	SHEET NO.
200811301 COUNTY	DESIGNED BY: <b>JTB</b>	OVERALL	845 Total shts.
W CASTLE	CHECKED BY: <b>RAK</b>	SITE PLAN	850



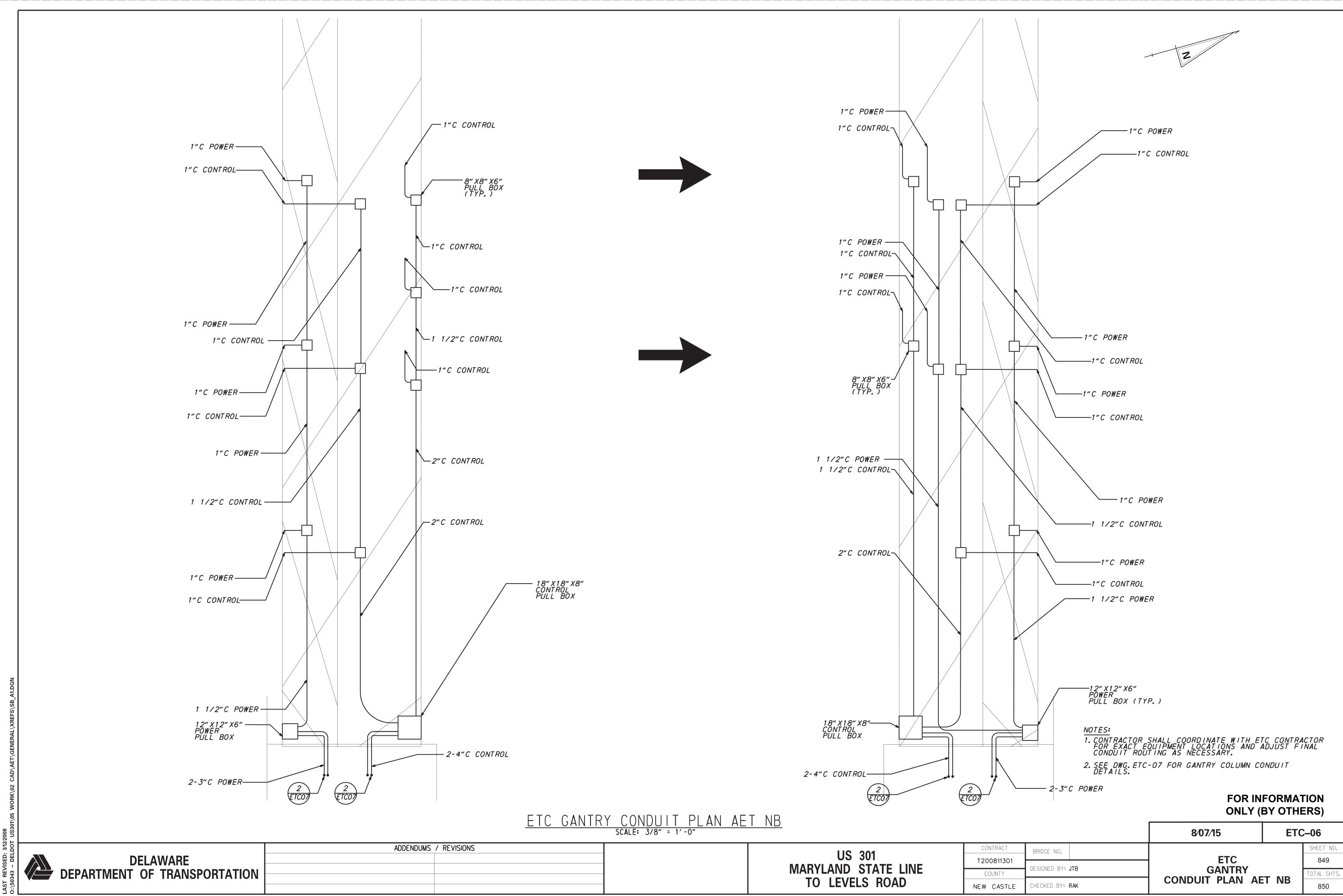


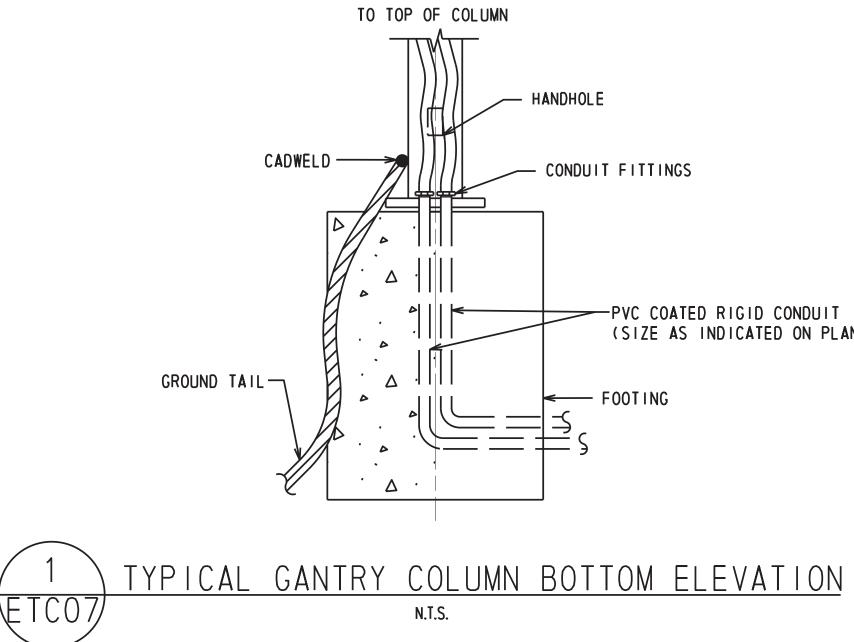


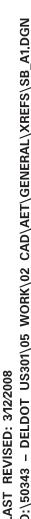


# FOR INFORMATION ONLY (BY OTHERS)

		8⁄07⁄15	ETC-05
CONTRACT	BRIDGE NO.		SHEET NO.
T200811301		ETC	848
COUNTY	DESIGNED BY: <b>JTB</b>	SITE & HUT 301	
NEW CASTLE	CHECKED BY: <b>RAK</b>	AET CONDUIT PL	<b>AN</b> 850





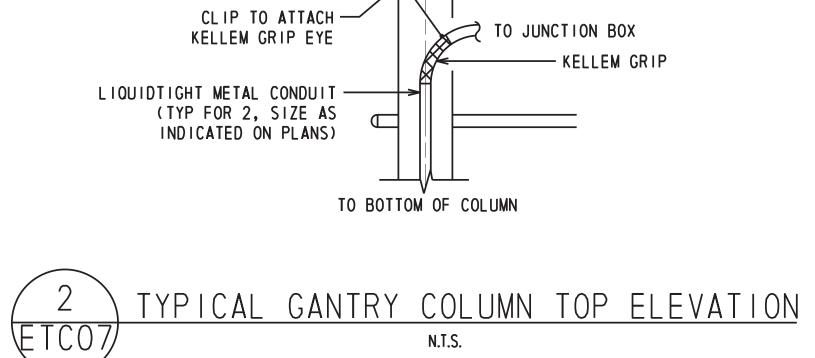


DF	-ΙΔ	WARE	-
		TRANSPORTATION	

ADDENDUMS / REVISIONS

- CONDUIT FITTINGS

FOOTING



					FORMATION BY OTHERS)
				8⁄07⁄15	ETC-07
ONS		CONTRACT	BRIDGE NO.		SHEET NO.
	US 301	T200811301		ETC	850
	MARYLAND STATE LINE	COUNTY	DESIGNED BY: JLG	DETAILS	TOTAL SHTS.
	TO LEVELS ROAD	NEW CASTLE	CHECKED BY: RAK		850

	T0	JUNCTION BC	X
1		KELLEM	GRIP

င့္ TOWER POLES