

GENERAL NOTES

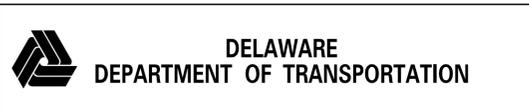
1. THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL MEASURES TO PROTECT STOCKPILE AREAS AND STORAGE AREAS. ALL AREAS USED BY THE CONTRACTOR FOR STAGING OPERATIONS SHALL BE FULLY RESTORED BY THE CONTRACTOR UPON COMPLETION OF THE PROJECT. THE STAGING AREA SHALL BE RE-GRADED, TOPSOILED, SEEDED AND MULCHED TO THE SATISFACTION OF THE ENGINEER. ALL COSTS ASSOCIATED WITH RESTORATION OF THE STAGING AREA SHALL BE AT THE CONTRACTOR'S EXPENSE. IF THE ENGINEER DETERMINES THAT A SATISFACTORY STAND OF GRASS DOES NOT EXIST AT THE TIME OF FINAL INSPECTION, ALL COSTS ASSOCIATED WITH RE-ESTABLISHING A SATISFACTORY STAND OF GRASS SHALL BE AT THE CONTRACTOR'S EXPENSE.
2. THE CONTRACTOR SHALL CONTACT TOWN OF MIDDLETOWN DEPARTMENT OF PUBLIC WORKS AT 302-378-2211 AT LEAST 48 HOURS IN ADVANCE OF STARTING CONSTRUCTION.
3. THE CONTRACTOR SHALL PROVIDE TEMPORARY SEED AND MULCH FOR ALL AREAS WHERE SOIL IS EXPOSED AND SILT FENCE IS NOT SPECIFIED, IN ACCORDANCE WITH DELDOT REQUIREMENTS.
4. THE CONTRACTOR SHALL MAINTAIN PUBLIC ROADS AND STREETS IN A BROOM SWEEP CONDITION AT ALL TIMES.
5. THE CONTRACTOR SHALL USE ONLY NEW MATERIALS, PARTS, AND PRODUCTS. ALL MATERIALS SHALL BE STORED SO AS TO ASSURE THE PRESERVATION OF THEIR QUALITY AND FITNESS FOR THE INTENDED WORK.
6. ALL UTILITIES PLOTTED ON THE DRAWINGS ARE FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR, PRIOR TO LAYING A RUN OF CONDUIT OR OTHER INVOLVED CONSTRUCTION, SHALL EXCAVATE WITHIN THE ALIGNMENT AT POINTS OF POSSIBLE CONFLICT TO DETERMINE IF A CONFLICT EXISTS. ANY CONFLICTS SHALL BE COORDINATED BY THE CONTRACTOR WITH THE ENGINEER AND THE UTILITY INVOLVED. THE ENGINEER SHALL DETERMINE THE SOLUTION. EXCAVATING, BACK FILLING AND RESTORATION OF THE TEST HOLES AS REQUIRED FOR UTILITY INVESTIGATIONS SHALL BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF THE UTILITIES AS SHOWN ON THE PLANS.
7. CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE EXECUTION OF THIS CONTRACT
8. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO LOCATE PROPERTY LINES AND RIGHT OF WAY LINES PRIOR TO CONSTRUCTION AND AVOID CONSTRUCTION ACTIVITIES ON PRIVATE PROPERTY AND/OR RIGHTS OF WAYS WHERE SAID CONSTRUCTION IS PROHIBITED.
9. ALL CONSTRUCTION SHALL BE PERFORMED TO THE SATISFACTION OF THE ENGINEER, TOWN OF MIDDLETOWN DEPARTMENT OF PUBLIC WORKS (DPW), DELAWARE DEPARTMENT OF TRANSPORTATION (DELDOT) AND ALL RESPECTIVE UTILITY OWNERS IN ACCORDANCE WITH ALL APPLICABLE CONTRACT DRAWINGS AND SPECIFICATIONS.
10. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND ORDERS OF ANY PUBLIC BODY HAVING JURISDICTION. THE CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY THE CONDITIONS AND PROGRESS OF THE WORK, ALL NECESSARY SAFEGUARDS FOR SAFETY AND PROTECTION IN ACCORDANCE W/APPLICABLE OSHA REGULATION.
11. THE CONTRACTOR SHALL INSTALL THE PROPOSED UTILITIES WITH A MINIMUM OF 1 FT. OF VERTICAL CLEARANCE AND 5' OF HORIZONTAL CLEARANCE FROM OTHER EXISTING AND PROPOSED UTILITIES. IN CASES WHERE THIS MINIMUM HORIZONTAL CLEARANCE IS NOT SHOWN OR FEASIBLE, THE CONTRACTOR MAY INSTALL THE PROPOSED UNDERGROUND ELECTRICAL LINE LESS THAN 5 FT. WITH APPROVAL OF THE TOWN OF MIDDLETOWN.
12. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL MATERIALS FOR APPROVAL TO THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL MATERIALS ORDERED AND INSTALLED PRIOR TO THE ENGINEER'S REVIEW AND ACCEPTANCE WILL BE AT THE CONTRACTOR'S RISK.
13. THE CONTRACTOR SHALL OPEN ONLY THAT SECTION OF TRENCH OR ACCESS PITS WHICH CAN BE BACKFILLED AND STABILIZED AT THE END OF EACH WORKING DAY. STEEL PLATES SHALL BE USED ON ANY TRENCH OR ACCESS PITS WHICH MUST REMAIN OPEN OVERNIGHT. THIS REQUIREMENT DOES NOT APPLY TO AREAS COMPLETELY CLOSED AND SECURE FROM VEHICULAR OR PEDESTRIAN TRAFFIC.
14. CONTRACTOR SHALL AT ALL TIMES MAINTAIN A SAFE AND DRY EXCAVATION. AT A MINIMUM, THIS INCLUDES SHEETING, SHEET PILES AND SHORING FOR TRENCHES IN ACCORDANCE W/ OSHA REGULATIONS AND SUFFICIENT DEWATERING FOR A DRY SUBGRADE.
15. ROUTINE PERIODIC INSPECTIONS DURING CONSTRUCTION WILL BE PROVIDED BY THE OWNER. THESE INSPECTIONS DO NOT RELIEVE THE CONTRACTOR FROM HIS OBLIGATION AND RESPONSIBILITY FOR CONSTRUCTING A UTILITY SYSTEM IN STRICT ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE OWNER.
16. AFTER TESTING IS COMPLETE AND ALL COMPONENTS OF THE UTILITY SYSTEM ARE DEEMED ACCEPTABLE TO THE OWNER, THE CONTRACTOR SHALL SUBMIT THE AS-BUILT DRAWINGS TO THE OWNER. ANY DISCREPANCIES NOTED DURING THE FINAL INSPECTION SHALL BE CORRECTED BY THE CONTRACTOR WITHIN 30 DAYS.
17. THE CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF CONTRACT DRAWINGS ON WHICH HE SHALL NOTE, IN RED, THE ALIGNMENTS AND INVERTS OF ALL UNDERGROUND UTILITIES THAT ARE INSTALLED OR ENCOUNTERED DURING THE EXECUTION OF THE WORK. ALL DISCREPANCIES BETWEEN THE PLAN LOCATIONS AND ELEVATIONS OF BOTH THE EXISTING AND PROPOSED UTILITIES SHALL BE SHOWN ON THE AS-BUILT DRAWINGS TO BE MAINTAINED BY THE CONTRACTOR IN THE FIELD.
18. ATLANTIC BROADBAND (ABB) MAINTAINS AN UNDERGROUND CABLE WITHIN THE SAME TRENCH AS THE EXISTING MIDDLETOWN-ELECTRIC FACILITIES. FOR ABB'S USE, THE STATE'S CONTRACTOR SHALL INSTALL TWO 2-INCH HDPE FLEX DUCTS IN THE SAME TRENCH, ADJACENT AND TO THE SAME LIMITS AS THE TWO 4" HDPE FLEX DUCTS THAT ARE BEING INSTALLED FOR MIDDLETOWN ELECTRIC. ABB WILL SUPPLY THE 2-INCH FLEX DUCTS AND DELIVER ALL MATERIALS TO THE STATE'S CONTRACTOR'S STAGING AREA WHERE THE STATE'S CONTRACTOR WILL BE RESPONSIBLE TO UNLOAD, STORE AND PROTECT THE MATERIALS UNTIL THEY CAN BE INSTALLED. THE STATE'S CONTRACTOR SHALL CONTACT ABB AT LEAST FOURTEEN (14) CALENDAR DAYS PRIOR TO REQUIRING DELIVERIES AND FIVE (5) CALENDAR DAYS PRIOR TO INSTALLATION FOR ARRANGEMENT OF ABB INSPECTION. THE STATE'S CONTRACTOR SHALL ALSO EXCAVATE THE TRENCH BETWEEN THE ENDS OF THE CONDUIT/FLEX DUCTS AND TO THE LIMITS OF THE ELECTRIC RELOCATION TO ALLOW ABB TO INSTALL UNDERGROUND CABLE. THE CONTRACTOR SHALL FURNISH AND INSTALL BACKFILL FOR THE TRENCH AND STABILIZE ALL DISTURBED AREAS. ABB CAN BEGIN THE WORK TO INSTALL THEIR NEW FACILITIES UPON COMPLETION OF THE FLEX DUCT BY THE STATE'S CONTRACTOR AND ACCEPTANCE BY ATLANTIC BROADBAND AND COMPLETION OF THE EXCAVATION FOR THE TRENCH BY THE STATE'S CONTRACTOR. ABB WILL THEN COMPLETE THEIR RELOCATION WORK AND ABANDON THE EXISTING FACILITIES WITHIN THEIR RELOCATED LIMITS WITHIN FOURTEEN (14) CALENDAR DAYS. ALL COSTS FOR COORDINATING WITH ABB, TRENCHING, BACKFILL, BACKFILLING, STABILIZATION, AND UNLOADING, STORING, PROTECTING AND INSTALLING THE ABB FLEX DUCT SHALL BE INCLUDED IN THE LUMP SUM COST FOR ITEM 753501 RELOCATING ELECTRIC UTILITY.

EXISTING UNDERGROUND UTILITIES COORDINATION NOTES:

1. THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER OR THE ARCHITECT/ENGINEER ASSUMES ANY RESPONSIBILITY WHATEVER IN RESPECT TO ACCURACY, COMPLETENESS, OR SUFFICIENCY OF THE INFORMATION SHOWN. THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED THAT THE LOCATIONS, SIZE AND TYPE OF MATERIALS OF EXISTING UNDERGROUND UTILITIES INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED DURING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH UTILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OWNER OF HIS OPERATIONAL PLANS. IN THE EVENT OF AN UNEXPECTED UTILITY INTERFERENCE DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER. ANY SUCH UTILITIES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED IMMEDIATELY AT HIS EXPENSE.
2. PRIOR TO PERFORMING ANY EXCAVATION GREATER THAN 6 INCHES, THE CONTRACTOR SHALL COORDINATE WITH TOWN OF MIDDLETOWN DEPARTMENT OF PUBLIC WORKS AND ALL PRIVATE UTILITY COMPANIES TO DETERMINE THE LOCATION OF UTILITY LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL ORGANIZATIONS THAT CONTROL EXISTING UTILITIES IN THE CONSTRUCTION AREA OR WOULD BE AFFECTED BY CONSTRUCTION WORK AROUND THE EXISTING UTILITIES.
3. THE CONTRACTOR SHALL NOT START EXCAVATION UNTIL ALL UTILITY LINE LOCATIONS HAVE BEEN STAKED OR OTHERWISE CLEARLY MARKED AND DOCUMENTATION FURNISHED TO THE OWNER. ALL MARKINGS SHALL BE CONSIDERED APPROXIMATE, AND UTILITIES OTHER THAN THOSE SHOWN SHALL BE CONSIDERED TO EXIST.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEFINITE LOCATION OF EACH UTILITY WITHIN THE WORK AREA. CARE SHOULD BE EXERCISED DURING EXCAVATION WORK TO AVOID DAMAGING OR DISRUPTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING (AT CONTRACTOR'S EXPENSE) DAMAGE TO ANY UTILITY CAUSED BY THE CONTRACTOR'S WORK.
5. WHERE EXISTING UNDERGROUND UTILITIES OR OTHER CONSTRUCTION ARE EXPECTED TO BE IN PROXIMITY TO PROPOSED CONSTRUCTION, OR WHEN APPROACHING EXISTING UTILITIES OR STRUCTURES FOR CONNECTIONS, THE CONTRACTOR SHALL DIG TEST PITS TO DETERMINE THE EXACT LOCATION AND INVERTS OF THE EXISTING UTILITY TO ALLOW FOR POSSIBLE CHANGES TO THE PROPOSED UTILITY IN LINE AND/OR GRADE. THE CONTRACTOR SHALL ALSO DIG TEST PITS IN THE LOCATION OF THE PROPOSED CONNECTIONS TO EXISTING UTILITIES AND SHALL MAKE ALL MEASUREMENTS NECESSARY TO ENSURE PROPER CONNECTION. ANY NECESSARY CHANGES IN LINE OR GRADE OF WORK CAUSED BY FAILURE TO TAKE SUCH PRECAUTIONS SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
6. WHERE EXISTING UTILITIES CROSS THE TRENCH EXCAVATION, THEY SHALL BE ADEQUATELY SUPPORTED AND PROTECTED FROM DAMAGE DUE TO CONSTRUCTION. ALL METHODS FOR SUPPORTING AND MAINTAINING THESE UTILITIES SHALL BE SUBJECT TO REVIEW BY THE UTILITY OWNER. CARE SHALL BE TAKEN TO ENSURE THAT THE EXISTING UTILITY GRADES AND ALIGNMENT ARE MAINTAINED AND PIPE JOINTS ARE NOT DISTURBED. BACKFILL SHALL BE CAREFULLY PLACED AND TAMPED TO PREVENT DAMAGE OR FUTURE SETTLEMENT. ANY DAMAGE OR MISALIGNMENT OF THE UTILITIES DUE TO CONSTRUCTION OR SETTLEMENT SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
7. ANY UNPROTECTED CABLE (DIRECT BURIED) ENCOUNTERED THAT IS VERIFIED AS NOT ABANDONED IN PLACE SHALL BE PROTECTED. THE UTILITY OWNER MAY DIRECT THE CABLE BE PLACED IN SPLIT DUCT OF APPROPRIATE SIZE AND CONCRETE ENCASED THROUGH THE AREA OF CONSTRUCTION. CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO AVOID HAVING TO CUT AND SPLICE DIRECT BURIED CABLE. THE CONTRACTOR SHALL NOTE SPLIT DUCT PORTIONS ON AS-BUILTS.

DRAWN FOR BIDDING AUGUST 2015

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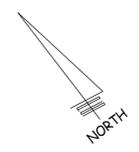


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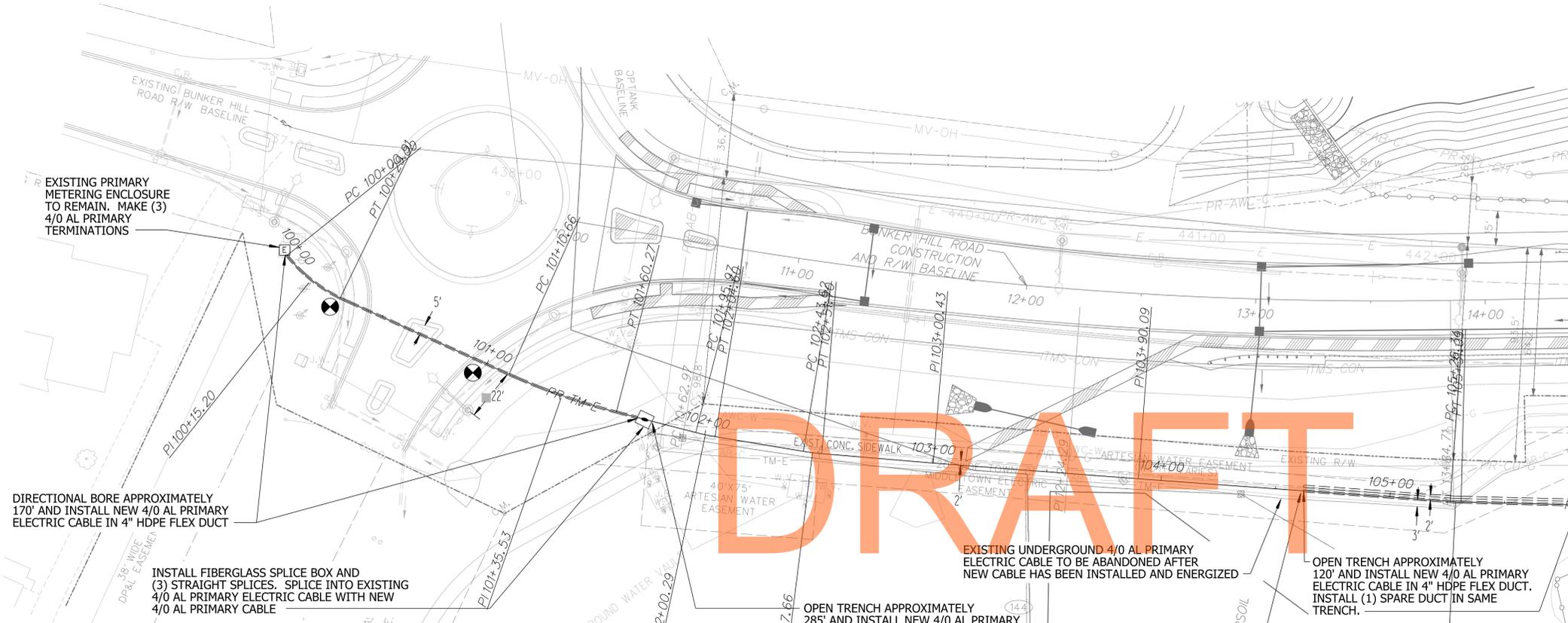
**US301  
LEVELS ROAD  
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	<b>X</b>
T200911303	DESIGNED BY:	D.BATTEE
COUNTY	CHECKED BY:	
NEW CASTLE		

<b>PREPARED BY: CENTURY ENGINEERING, INC.</b>		<b>MER-01</b>
<b>MIDDLETOWN ELECTRIC RELOCATION</b>		SHEET NO. 1253
		TOTAL SHTS. 1256



MATCH LINE - SHEET NO. 1255



EXISTING PRIMARY METERING ENCLOSURE TO REMAIN. MAKE (3) 4/0 AL PRIMARY TERMINATIONS

DIRECTIONAL BORE APPROXIMATELY 170' AND INSTALL NEW 4/0 AL PRIMARY ELECTRIC CABLE IN 4" HDPE FLEX DUCT

INSTALL FIBERGLASS SPLICE BOX AND (3) STRAIGHT SPLICES. SPLICE INTO EXISTING 4/0 AL PRIMARY ELECTRIC CABLE WITH NEW 4/0 AL PRIMARY CABLE

END OF NEW 4" HDPE FLEX DUCT AT EXISTING PRIMARY METERING ENCLOSURE

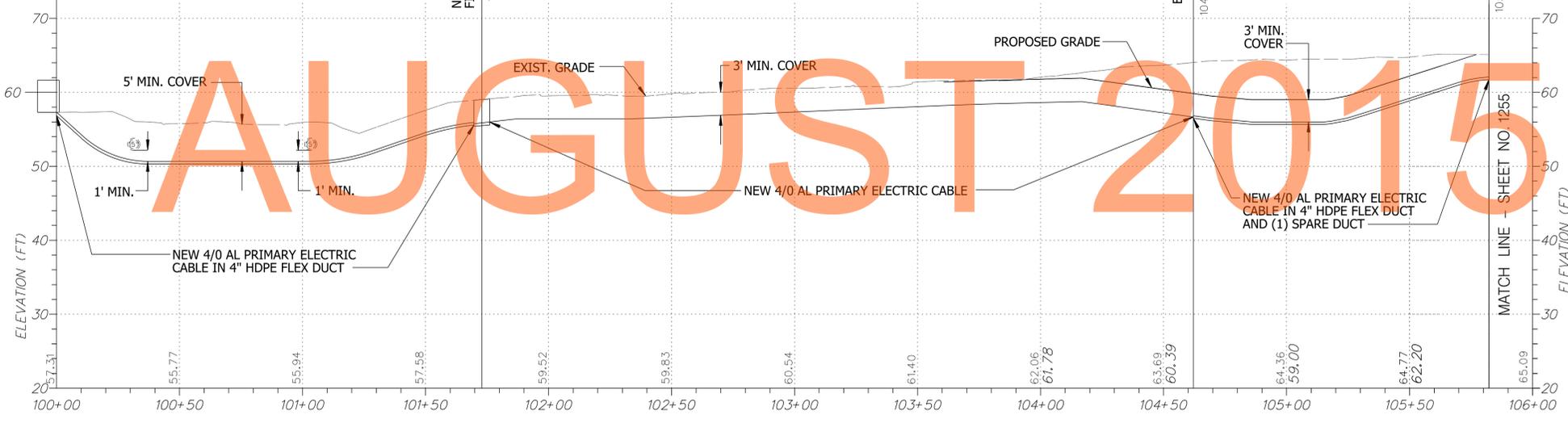
NEW 64" L x 34" W x 36" D FIBERGLASS SPLICE BOX

OPEN TRENCH APPROXIMATELY 285' AND INSTALL NEW 4/0 AL PRIMARY ELECTRIC CABLE

EXISTING UNDERGROUND 4/0 AL PRIMARY ELECTRIC CABLE TO BE ABANDONED AFTER NEW CABLE HAS BEEN INSTALLED AND ENERGIZED

OPEN TRENCH APPROXIMATELY 120' AND INSTALL NEW 4/0 AL PRIMARY ELECTRIC CABLE IN 4" HDPE FLEX DUCT. INSTALL (1) SPARE DUCT IN SAME TRENCH.

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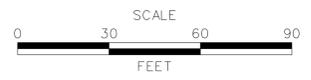


ELECTRIC LEGEND	
SYMBOL	DESCRIPTION
	EXISTING PRIMARY METERING ENCLOSURE
	EXISTING 4/0 AL PRIMARY ELECTRIC CABLE
	PROPOSED 4/0 AL PRIMARY ELECTRIC CABLE
	PROPOSED 4/0 AL PRIMARY ELECTRIC CABLE IN 4" HDPE FLEX DUCT
	PROPOSED SPARE 4" HDPE FLEX DUCT
	PROPOSED FIBERGLASS SPLICE BOX
	TEST PIT

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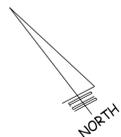


US301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	T200911303	BRIDGE NO.	X
COUNTY	NEW CASTLE	DESIGNED BY:	D. BATTEE
		CHECKED BY:	

PREPARED BY: CENTURY ENGINEERING, INC. MER-02

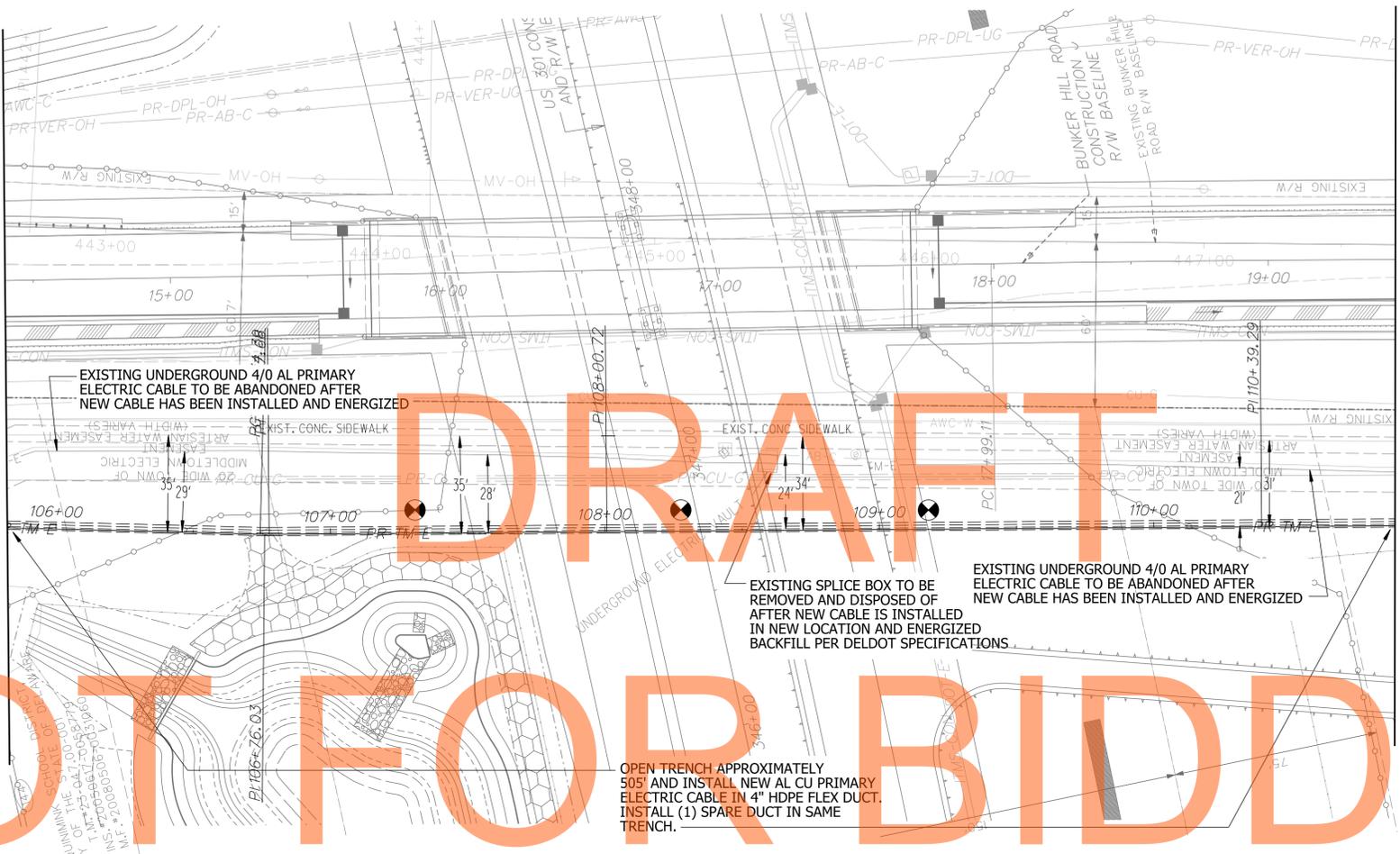
MIDDLETOWN ELECTRIC RELOCATION	SHEET NO.	1254
	TOTAL SHTS.	1256



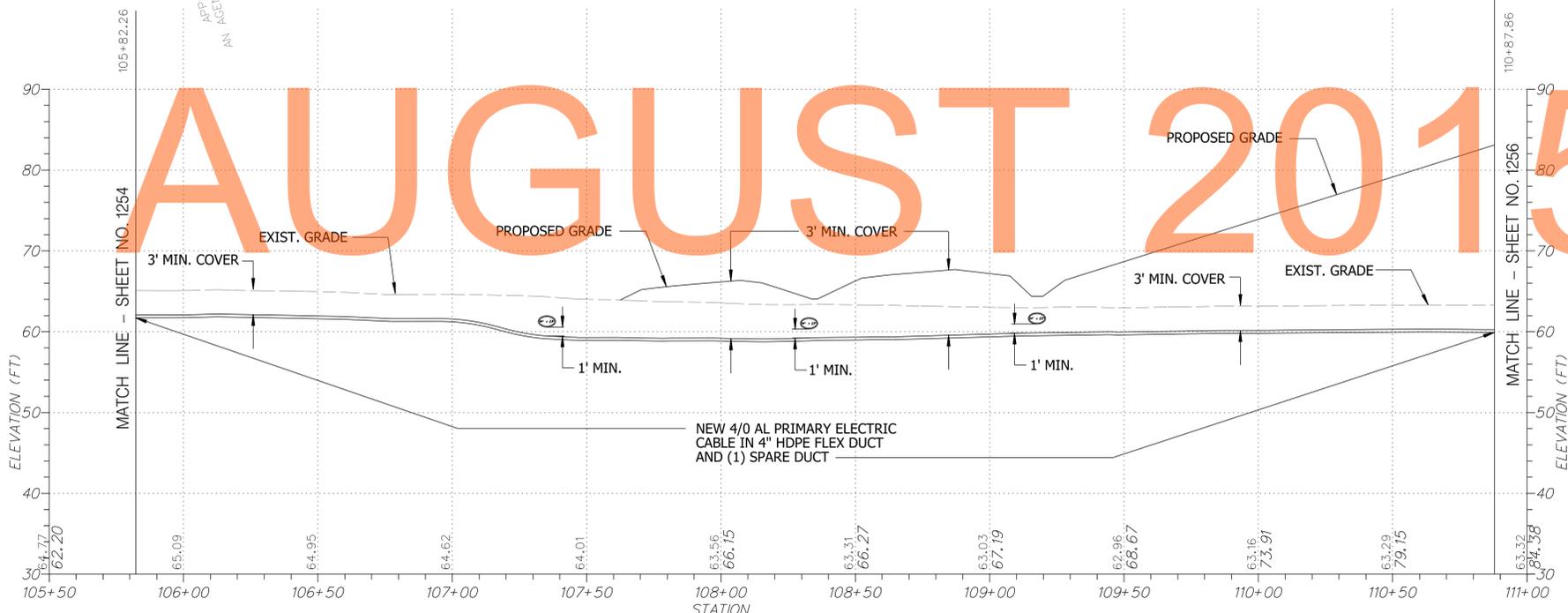
MATCH LINE - SHEET NO. 1254

MATCH LINE - SHEET NO. 1256

NOT FOR BIDDING



AUGUST 2015



ELECTRIC LEGEND	
SYMBOL	DESCRIPTION
[E]	EXISTING PRIMARY METERING ENCLOSURE
— TM-E —	EXISTING 4/0 AL PRIMARY ELECTRIC CABLE
— PR-TM-E —	PROPOSED 4/0 AL PRIMARY ELECTRIC CABLE
— PR-TM-E —	PROPOSED 4/0 AL PRIMARY ELECTRIC CABLE IN 4" HDPE FLEX DUCT
— — — —	PROPOSED SPARE 4" HDPE FLEX DUCT
[ ]	PROPOSED FIBERGLASS SPLICE BOX
[ ]	TEST PIT

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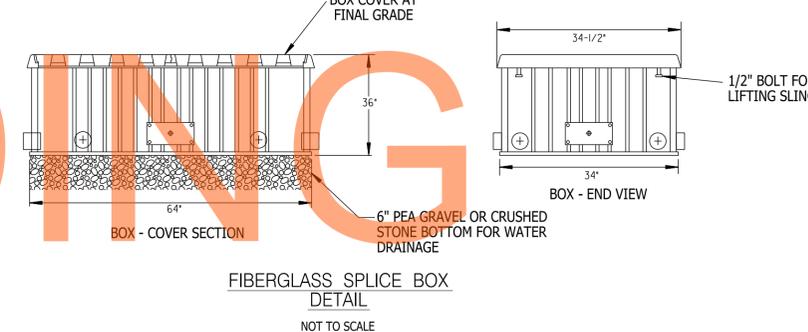
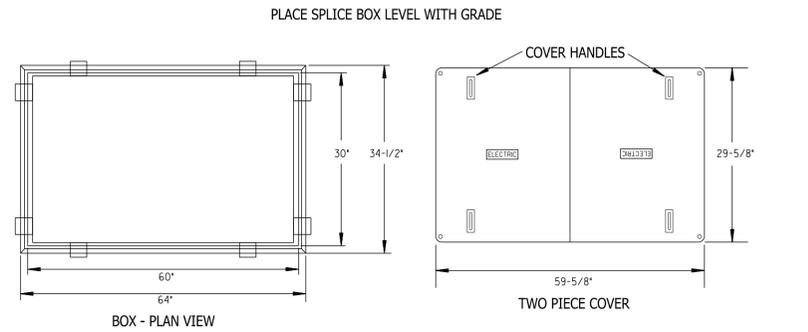
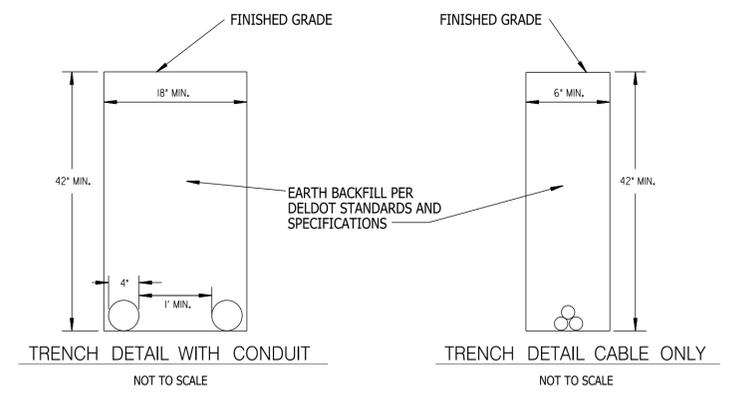
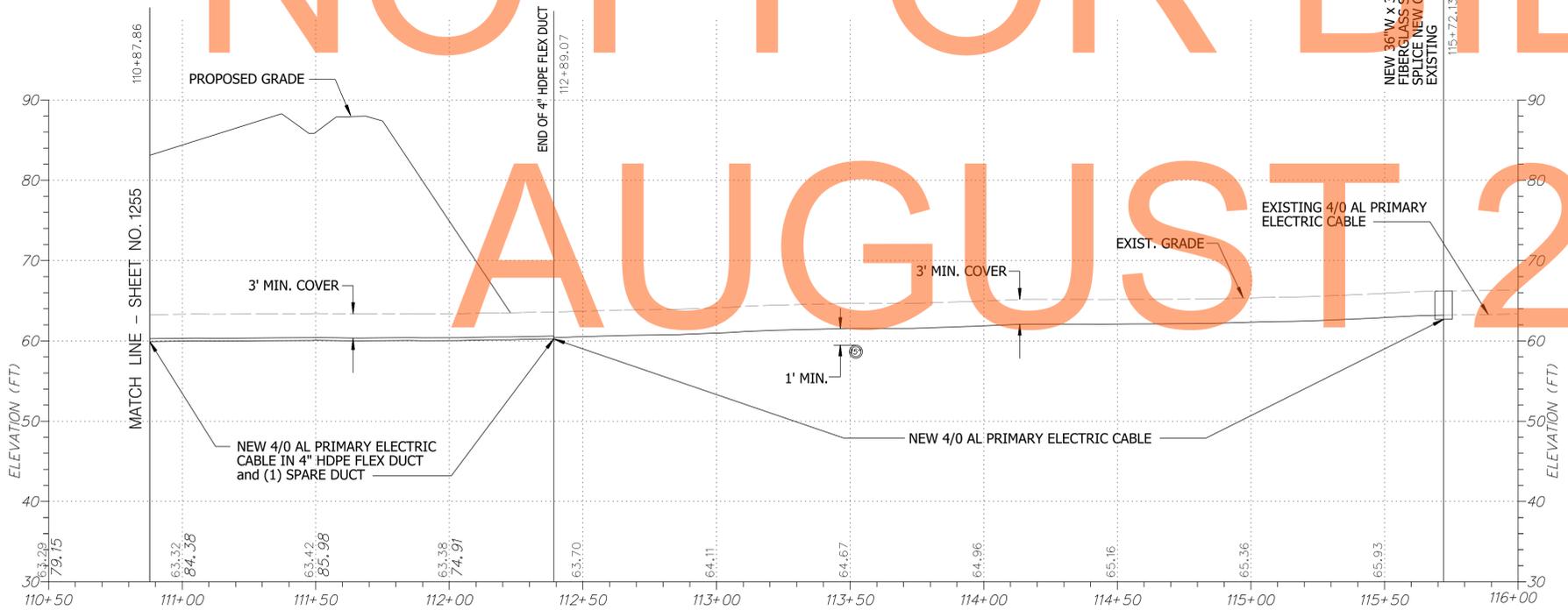
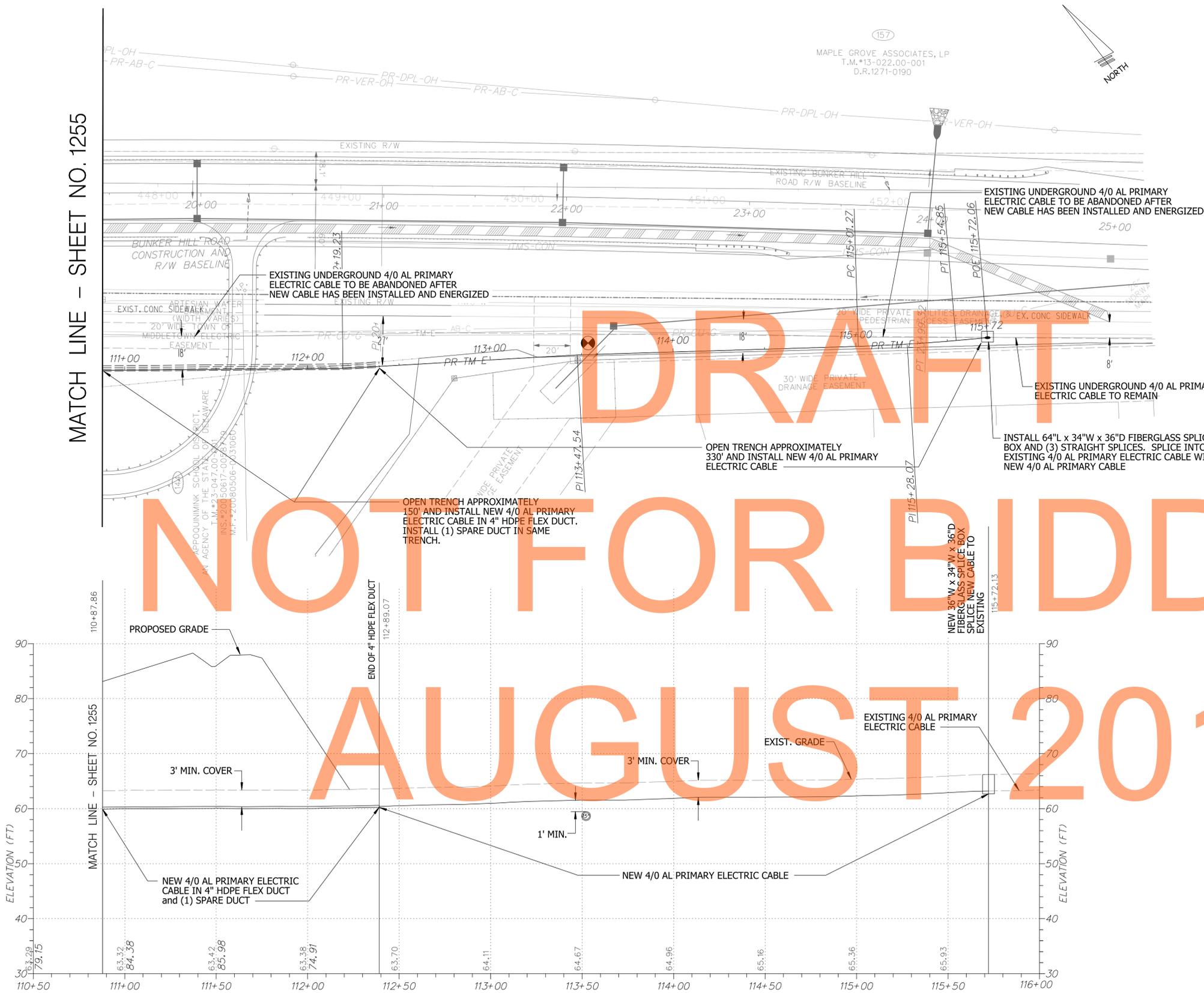


US301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.	X
T200911303	DESIGNED BY:	D.BATTEE
COUNTY	CHECKED BY:	
NEW CASTLE		

PREPARED BY: CENTURY ENGINEERING, INC.	MER-03
MIDDLETOWN ELECTRIC RELOCATION	SHEET NO. 1255
	TOTAL SHTS. 1256

MATCH LINE - SHEET NO. 1255



ELECTRIC LEGEND	
SYMBOL	DESCRIPTION
[Square with 'E']	EXISTING PRIMARY METERING ENCLOSURE
— TM-E —	EXISTING 4/0 AL PRIMARY ELECTRIC CABLE
-PR-TM-E-	PROPOSED 4/0 AL PRIMARY ELECTRIC CABLE
-PR-TM-E- (with dashed lines)	PROPOSED 4/0 AL PRIMARY ELECTRIC CABLE IN 4\"/>
====	PROPOSED SPARE 4\"/>
[Square with 'X']	PROPOSED FIBERGLASS SPLICE BOX
[Circle with 'X']	TEST PIT

DRAFT

NOT FOR BIDDING

AUGUST 2015

157  
 MAPLE GROVE ASSOCIATES, LP  
 T.M.#13-022.00-001  
 D.R.1271-0190



**US301  
 LEVELS ROAD  
 TO SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO. <b>X</b>
COUNTY NEW CASTLE	DESIGNED BY: D. BATTEE
	CHECKED BY:

<b>PREPARED BY: CENTURY ENGINEERING, INC.</b>		<b>MER-04</b>
<b>MIDDLETOWN ELECTRIC RELOCATION</b>		SHEET NO. 1256
		TOTAL SHTS. 1256



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