CONSTRUCTION CPM CONFERENCE MOCK TRIAL PRESENTATION

2024 San Antonio TX – our 12th Conference – 26th Trial

Featuring: Hon. John McClellan Marshall Daniel Lund III of Phelps Dunbar Jim Coleman of Zachry Ranjeet Gadhoke of Zachry Fredric L Plotnick, PhD, Esq., P.E.

What we Have Here is a Failure of Communication Does the Engineer, Contractor and Software all Speak the Same Language?

Our Panel

- Hon. John M. Marshall presiding
- Daniel Lund, Esq. attorney for TaxDOT
- Jim Coleman, Esq. attorney for ConnedTractor
- Ranjeet Gadhoke software expert of ConnedTractor
- Adam Saur superintendent for ConnedTractor
- Fredric L. Plotnick, Ph.D., Esq., P.E. moderator – and CPM expert for ConnedTractor



The Honorable don John McClellan Marshall

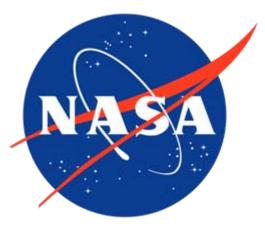
Senior Judge, Fourteenth Judicial District of Texas Sitting by Assignment Honorary Professor of the University, UMCS



JUDICIAL SERVICE - Served as Judge Presiding, Municipal Court of Muenster, Texas, 1976-1980, Judge Presiding, Fourteenth Judicial District of Texas, 1981-2000; Judge for the Dallas County Emergency Medical-Legal Project, 1986-2000, Judge of the Sabine Valley Child Protection Court, 2001-2004.

EDUCATION AND PROFESSIONAL ACTIVITIES - BA – Virginia Military Institute, 1965 (Valedictorian); MA – Vanderbilt University, 1966; Juris Doctor (JD) - Southern Methodist University, 1975; LL.D. (Honorary), *Academia Mexicana de Derecho Internacional* 1985. Member of The International Academy of Astronautics, elected 1999. Life Fellow of the College of State Bar of Texas. Mensa, 1968-present (President, North Texas Mensa, 2020).





Prize-winning author [George Washington Medal of Freedoms Foundation ("The Bill of Rights") and State Bar College best article of the year 1999], specializing in procedural law [co-author, West's Texas Rules of Civil Procedure, Annotated since 1996]. Associate Historian, Florida Institute of Technology, 1970-71 [wrote history of Apollo/Saturn V Launch Operations at Kennedy Space Center]. Technical Instructor, Skylab Program at KSC, 1971-73. Presenter, International Astronautical Congress: Brussels, 1971 ["The Mobile Concept in Apollo/Saturn V Launch Operations"]; Oslo, 1995 ["The Terminator Missed a Chip!: Cyberethics"]. Honorary Professor of the University, 2004, Marie Curie-Sklodowska University [UMCS], Lublin, Poland. Lecturer, University of Texas at Dallas Center for Values in Medicine, Science and Technology, 2012-present. Speaker at MEDEL Conference, Kraków, Poland, 2018 -"The Constitution and the Independent Judiciary": co-author, Precedent in The Judicial Process: Judges' Perspective in Comparative Approach, UMCS [Lublin, Poland] 2019] (published in English and Polish); "The Modern Memory Hole", Athenaeum Review, Fall 2019 (University of Texas at Dallas); " Cyberethics In The 21st Century: The Reign Of The Machines", Mensa Bulletin, January 2020; "Machine-Machine To Major Tom: Cyberethics", IAA/UT Conference on Space Traffic Management, Austin, TX, February 2020. ORCID ID: 0000-0003-4504-144X.



Daniel Lund III <u>daniel.lund@phelps.com</u> Phelps Dunbar LLP 365 Canal Street, Suite 2000 New Orleans, Louisiana 70130 Direct dial: 504-584-9325



Mr. Lund is a Partner in the New Orleans office of the law firm of Phelps Dunbar, L.L.P., and for his 35 years of practice has been engaged in general civil litigation, focusing primarily on construction industry and surety matters, products liability, telecommunications law, and zoning.

Dan received his B.A. degree in philosophy from the University of New Orleans, his J.D. degree from Tulane University, and an M.T.S. degree from Duke University. He serves on the Construction, Consumer, and Commercial Arbitration Panels of the American Arbitration Association and on the panel of mediators and arbitrators for Perry Dampf Dispute Solutions nationwide.

Mr. Lund is admitted to practice before all courts in Louisiana and the United States District Courts in Louisiana, as well as the United States District Court for the Northern District of Florida. He is a member of the American Bar Association Fidelity and Surety Law Committee, and is a member of the Louisiana State Bar Association.

At the start of 2023, Dan was honored to be named by Louisiana Super Lawyers to its 2023 list of "Top 50" attorneys across all practice areas in the state of Louisiana.



Jim Coleman, Esq. – attorney for ConnedTractor

Jim Coleman Senior Business Counsel Zachry Construction Corporation

Jim has been an in-house counsel to Zachry Construction Corporation and its affiliates for nine years, managing outside counsel in a variety of construction and design defect disputes and other contract issues in arbitrations and state court and federal court actions. He also supports Zachry's projects, drafting and reviewing contracts and providing legal guidance to Zachry's project teams. Jim received his BS in engineering and a minor in economics from Virginia Tech in 1984. He spent eighteen years in construction management for large commercial contractors, including being a project manager for an expansion of the San Antonio Convention Center, a dorm for UT Arlington, an office building in Plano, Texas, a laboratory for the University of Maryland, and an apartment building in downtown Washington, DC.

In 2002, Jim decided to switch careers, going to law school full-time, receiving his J.D. from Washington & amp; Lee in 2005. He spent nine years as a construction litigator with law firms in northern Virginia, representing owners, contractors and the occasional subcontractor in arbitrations and state and federal courts before going in-house with Zachry. He is a member of the Texas, New York and Virginia Bars.

Ranjeet Gadhoke – software expert of ConnedTractor

Ranjeet Gadhoke

Ranjeet.gadhoke@zachrycorp.com Zachry Construction Company 14410 Wurzbach Parkway, Suite 120 San Antonio, TX 78216



Mr. Ranjeet Gadhoke serves as Vice President of Project Controls at Zachry Construction Corporation in San Antonio, Texas. Leveraging over two decades of professional experience in the heavy civil construction sector, he has assumed progressive roles including Field Engineer, Scheduler, Project Manager, and currently, Vice President.

Holding a Master of Science degree in Civil Engineering and Construction Management from Northeastern University, Mr. Gadhoke launched his career by managing over \$500 million in infrastructure projects as part of Boston's \$15 billion Central Artery/Tunnel initiative. As Master Scheduler and Claims/Changes Manager, he successfully negotiated over \$80 million in complex claims and change orders.

After 4 years spearheading operations and providing planning/claims consulting services to firms in India, Mr. Gadhoke joined Zachry Construction in 2008 as Director of Project Controls. In this capacity, he has directed large-scale construction programs and led the Enterprise Resource Planning implementation. Most notably, Mr. Gadhoke established and scaled the newly formed Project Controls Department post-reorganization in 2008. Today, he leads the department in advising and controlling all Zachry projects with respect to scheduling, progress and production tracking, cost control, claims and changes, and risk mitigation.

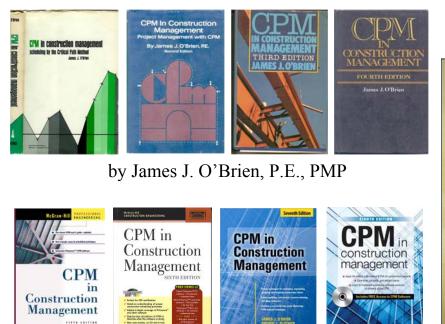


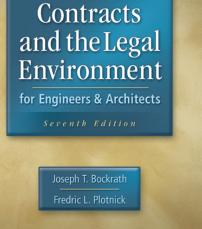
Adam Saur – *superintendent of ConnedTractor*



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CONTRACTOR'S SCHEDULE ANALYSIS



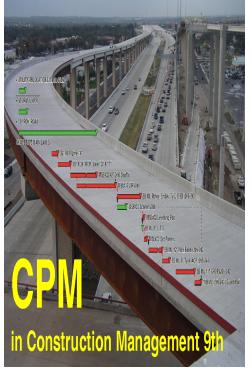


by James J. O'Brien, P.E., PMP, and Fredric L. Plotnick, Ph,D,, Esq., P,E.

James J. O'Brien Fredric L. Plotnick

> by Joseph T. Bockrath, and Fredric L. Plotnick









- We are building a section of highway including several elevated structures
- The project is designed, funded and administered by TaxDOT
- The project is being built by ConnedTractor who signs the NoNegotiation Govt. Contract
- Specification provides contractor to complete all work by 10MAY22
- Spec requires contractor to prepare and utilize a CPM
- and to submit to TaxDOT a PDF of such schedule for review and approval
- Spec requires contractor to prepare claims for delay utilizing "latest version of P3"
- TaxDOT insists this means OPC and will defend right to L/D's and claims with OPC
- What will Judge and (YOU the) Jury make of the competing computer output or opinions?



Today's Lesson Plan

Software is supposed to but does not model the real world

- Engineers, Schedulers and Contractors may build with a flawed model
- Can a Judge really determine "Truth" from "Experts" reviewing a flawed model?

Understand the difference between a disruption to activity and a delay to project.

- Understand the difference between the 1910 and 1956 Schedule algorithms
- Understand same input to different software may calculate different results

The law usually says one may specify actions or results – but not both

- The Spearin doctrine allows prescription or performance but not both
- We will examine if *Spearin* applies to a mis-applied scheduling specification

Issues with Popular Software

Baseline or Initial Calculated Schedule: 1910 Resource Allocation

Interruptible v Continuous Performance of Duration

Updates to Baseline or Initial Schedule: 1956 CPM

IL Rdwy, Embk, Ty C/B-EB (205-243)

Survey Monuments

• Performance of Work v Passage of Time for Lag Durations

Retained Logic v Progress Override v MOOS base

based upon ADM or PDM

MSCS PRIMAVERA

Survey Monuments

EB ML Rdwy, Embk. Ty

Spider Team Lag = % Volume Performed v Time Elapsed

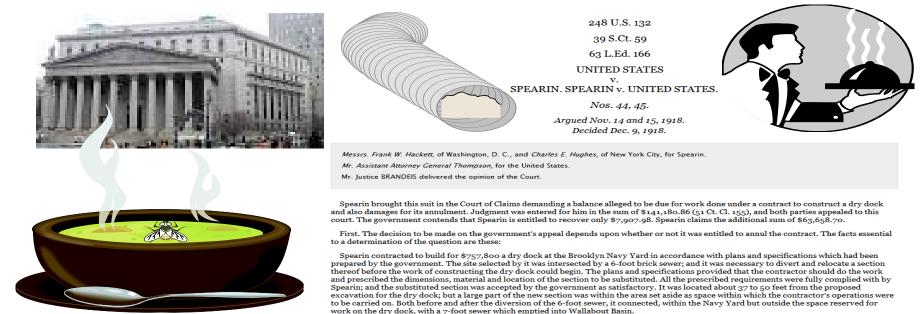
Just-in-Time v Free Float

Deltek Open Plan Lag = Days Elapsed v 30P (30% of OD)



Do we have a Spearin Issue?

- MacKnight Flintic Stone Co. v. The Mayor, 160 N. Y. 72, 54 N. E. 661, 1899
- United States v. Spearin (248 U.S. 132), 1918





- We are building a section of highway. We can work with \$100m, including a five-high series of overpasses, a tolling plaza to collect fees from drivers at 70mph or higher, and a toll plaza administration building. Completion ON-TIME brings a \$4m bonus.
- Some small contract and design issues: The Contract states a prime imperative (from the legislature funding project) to speed to meet deadline. Thus the rationale for the \$4m bonus. All understanding this "joint" desire, the contractor named ConnedTractor, accepts the promises of owner TaxDOT to "not interfere with ConnedTractor's performance of work."
- The Specification (Section 01.32.01, under Submittals) indicates Contractor shall utilize the "latest version of Primavera P3 or other software of its choosing" and to be provide to TaxDOT "an xer or other computer readable file." [Note P6 is an entirely different software and not "latest version" of P3. Oracle now claims OPC is an entirely different software "from the ground up" from P6.]

 The specification also requires any Claim to be submitted to "Owner's instance of OPC," "Owner to provide Contractor two seats on Owner's instance of OPC," "and that dates calculated on Owner's instance of OPC shall be accepted as correct for purposes of forensic analysis."

[Note again that OPC is also entirely different software than P6, and that each Owner's instance may calculate a different result than for other instances from same data, and that algorithm of OPC is either proprietary or possibly unknown to the marketing or salesforce of Oracle, much less to one of their "instance" subscribers.]



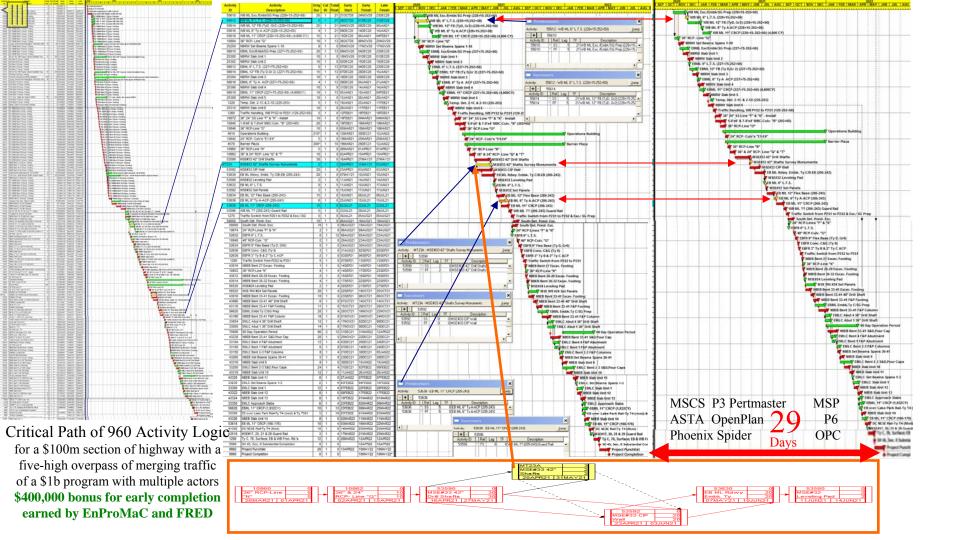
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- The area is seismically sensitive, and a small but key feature will be the need to place a number of seismic monitors between Drilled Shafts and Cast-in-Place wall. The work to place such is minimal, maybe two days of labor total, but spread out over entire 30 days allocated for drilling shafts. Final placement decided on shaft by shaft basis. The CIP wall may be install starting maybe five days after the first of the shafts (and at least one monitor) are placed, with the last of the CIP wall to be placed five days after the last of the shafts and monitors. To show this in a CPM, the network logic involves using an algorithm that is supported in some but not all software. [P3, ASTA and others support this algorithm; P6 and Microsoft Project do not.]
- The project starts on December 2, 2019, and is moving along as planned when two events occur on 28sep20, each causing disruption to the project. [However we will learn while each causes a disruption to the work and project, only one causes delay to the project, as the work of one is on an activity on the CRITICAL PATH, while the other is to an activity having many weeks of float.]



- The first "causative event" of 28sep20 is that ConnedTractor discovers as it begins excavation to place "Line 'U'" of Sanitary Sewer ranging from 24" to 48" pipe that some of the pipe delivered is of the wrong size. ConnedTractor promptly orders replacement pipe but such takes five weeks to fabricate and deliver. Pipe must be installed in proper order and this brings this activity to a stop for five weeks.
- The second "causative event" is that the inspector for TaxDOT (whose nickname is 'here is a nickel, buy him a clue so he can do his job,' ergo "Inspector Clue So") believes ConnedTractor has misplaced one or more Columns and stops work on placing caps on the columns so to allow work to continue. After two weeks, TaxDOT's surveyors determine ConnedTractor had it correct the entire time, and that the error was the plans and specifications and ConnedTractor were measuring in meters while the inspector was measuring in yards.
- Inspector Clue So indicates no delay to ConnedTractor because "there was a LOT of other work upon which ConnedTractor could have worked during those two weeks."



- ConnedTractor immediately files a "delay claim" calculated in both ASTA and in P3 (to show replicability) and requests in advance acknowledgement so that ConnedTractor may spend extra to bring in extra crafts and large equipment so to recover the two weeks lost.
- TaxDOT responds that they are not responsible for a possible delay to project, nor cost to mitigate such, claiming the concurrent ConnedTractor issue of wrongfully delivered pipe, AND that new review shows that the Logic Network when run using either P6 or OPC or MSP reveals the initial schedule of ConnedTractor calculated to complete 29 days late, and that the PDF of the Initial Schedule submitted indicated an attempted fraud by ConnedTractor.
- ConnedTractor does bring in extra equipment and crews and eventually mitigates the delay and completes the project on time.
- ConnedTractor requests \$200,000 for acceleration and other mitigation efforts.
- TaxDOT claims a little False Claim violation, refuses to pay \$4m bonus and outstanding invoices.



	Activity Description	Orig Ca	al Tota Float	al Early at Start	Early Finish	Late Finish	2020 LSEP TOCT NOV LBC JAN FEB TMAR APR TMAYI JUN JUL TAUG SEP TOCT NOV LBC JAN FEB TMAR APR MAYI JUN JUL TAUG B
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53590 MT23A	MSE#33 42" Drill Shafts MSE#33 42" Shafts Survey Monuments	2 1		3 20APR21	3 MAY21	03JUN21	MSE#33 42" Shafts Survey Monuments
53592	MSE#33 CIP Wall	20		0 23APR21	03JUN21	03JUN21	
53630	EB ML Rdwy. Embk. Ty C/B-EB (205-243)	20 1		0 07MAY21	10JUN21	10JUN21	Same Data
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53636 53638	EB ML 6" Ty A-ACP (205-243) EB ML 11" CRCP (205-243)	6 1		0 25JUN21	15JUL21	15JUL21	TO 1 1:00 EB ML 11 CRCP (205-243)
53596	WB ML ?? (205-243) Guard Rail	5 1		0 23JUL21	2230121	29JUL21	29 day difference
1270	Traffic Switch from P2S1 to P2S2 & Evc / SG	5 1		30JUL21	05AUG21	05AUG21	Traffic Switch from P2S1 to P2S2 & Exc./ SG Prep
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S8000 Activity ID S5610 S5611 S6612 S5611 S6613 S5614 S5611 S6613 S5614 S5615 S6614 S5510 S6614 S5615 S6614 S6614 S6615 S6616 S6616 S6617 S6618 S6618 S6619 S6619 S5560 S5560 S5560 S55612 S5562 S55630 S5564	South Det. Pond-Exc. Supported by P3, A Activity Description WB ML Exc./Embk/SG Prep (228+15-252+50) WB ML G* TY 5. (208+15-252+50) WB ML G* TY 5. (208+15-252+50) WB ML G* TY 6. (208+15-252+50) WB ML G* TY 6. (208+15-252+50) (4.600 C*) 36* RCP-Line *0* NBRW Siab Unit 1 NBRW Siab Unit 2 NBRW Siab Unit 2 NBRW Siab Unit 3 EBML Exc/Embk/SG Prep (227+75-252+50) NBRW Siab Unit 3 EBML F7 (TY 0.72) (227+75-252+50) NBRW Siab Unit 3 EBML G* TY 6. (200 C*) South SC 100 C*) South SC 100 C*) WB ML G* SUBJECT 100 C*) WB ML G* SUBJECT 100 C*) South SC 100 C*) WB ML G* SUBJECT 100 C*) South SC 100 C*) South SC 100 C*) WB ML G* SUBJECT 100 C*) WB ML G	Orig Case 26 1 26 1 26 1 27 1 10 1 9 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 20 1 100 1 100 1 100 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 30 1 30 1 30 1	rian 1 - 20 - 20 20 - 20 - 20 	Barty Earty 210CT20 25NOV20 25NOV20 25NOV20 0 CODE C20 0 0 CODE C20 0 0 CALL 5000720 0 CALL 0 0 CALL </td <td>Early Finish 24N0/28 0710C23 0710C23 0710C23 0710C23 17N0/28 17N0/28 17N0/28 17N0/28 17N0/28 17N0/28 17N0/28 17N0/28 1800/28 1800/2</td> <td>Lefte Finish 150CT20 220CT20 2</td> <td>ider, MSCS, 1956 by hand South Pet. Pond-Exet. WSP, P6, 1910 (Optional by Others) Set or 17.5. (228-16)223. (227-26)23. (227-26) (227-76)252-60) Set or 17.5. (228-16)223. (227-76)252-60) Set or 17.5. (228-16)223. (227-76)252-60) Set or 17.5. (228-16)223. (227-76)252-60) Set of 17.5. (227-76)252-</td>	Early Finish 24N0/28 0710C23 0710C23 0710C23 0710C23 17N0/28 17N0/28 17N0/28 17N0/28 17N0/28 17N0/28 17N0/28 17N0/28 1800/28 1800/2	Lefte Finish 150CT20 220CT20 2	ider, MSCS, 1956 by hand South Pet. Pond-Exet. WSP, P6, 1910 (Optional by Others) Set or 17.5. (228-16)223. (227-26)23. (227-26) (227-76)252-60) Set or 17.5. (228-16)223. (227-76)252-60) Set or 17.5. (228-16)223. (227-76)252-60) Set or 17.5. (228-16)223. (227-76)252-60) Set of 17.5. (227-76)252-
S8000 Activity ID 58610 58611 58612 58616 10004 25500 58616 25304 25304 25306 1220 25301 25304 25306 1220 25310 10626 106270 10646 4010 10642 4570 53692 53693 53693 53693 53693 53693 53693 53693 53693 53693 53693 53693 53693 53693 53693 53693 53694 53693 53693 53694 53693	South Det. Pond-Exc. Supported by P3, A Activity Description WB ML Exc. Embb/SG Prep (228+15-252+50) WB ML G* T & GYO-GYO (228+15-252+50) BB ML G* T & GYO-GYO-GYO-GYO-GYO-GYO-GYO-GYO-GYO-GYO-	Origo Case 22 10 26 1 26 1 27 10 10 1 9 10 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 204 1 204 1 204 1 204 1 204 1 204 1 204 1 204 1 204 1 <td> </td> <td>Barty Sarty 2 Stort 3 Stort 3</td> <td>64072 24072 610623 610623 610623 610623 610623 600724 610625 600724 600724 600724 600724 600724 600725 600724 600725 600724 600725 60075 60</td> <td>Lefte Finash 180CT20 280CT20 280CT20 180CT20 190CT20 079CT20 0</td> <td>ider, MSCS, 1956 by hand ▲ WMSP, Pond-Exc. WMSP, P6, 1910 (Optional by Others) ▼ Sep 10c1 1900 the control of the control</td>		Barty Sarty 2 Stort 3 Stort 3	64072 24072 610623 610623 610623 610623 610623 600724 610625 600724 600724 600724 600724 600724 600725 600724 600725 600724 600725 60075 60	Lefte Finash 180CT20 280CT20 280CT20 180CT20 190CT20 079CT20 0	ider, MSCS, 1956 by hand ▲ WMSP, Pond-Exc. WMSP, P6, 1910 (Optional by Others) ▼ Sep 10c1 1900 the control of the control
S8000 Activity JD S5610 S5611 S6612 S5613 S5614 S6614 S5615 S5511 S6614 S5612 S5511 S6614 S6616 S5611 S6616 S5501 S5301 S5302 S53602 S53602 S53602 S53602 S53602 S53602 S53602	South Det. Pond-Exc. Supported by P3, A Activity Description WB ML Exc./Embk/SG Prep (228+15-252+50) WB ML G* TY 5. (208+15-252+50) WB ML G* TY 5. (208+15-252+50) WB ML G* TY 6. (208+15-252+50) WB ML G* TY 6. (208+15-252+50) (4.600 C*) 36* RCP-Line *0* NBRW Siab Unit 1 NBRW Siab Unit 2 NBRW Siab Unit 2 NBRW Siab Unit 3 EBML Exc/Embk/SG Prep (227+75-252+50) NBRW Siab Unit 3 EBML F7 (TY 0.72) (227+75-252+50) NBRW Siab Unit 3 EBML G* TY 6. (200 C*) South SC 100 C*) South SC 100 C*) WB ML G* SUBJECT 100 C*) WB ML G* SUBJECT 100 C*) South SC 100 C*) WB ML G* SUBJECT 100 C*) South SC 100 C*) South SC 100 C*) WB ML G* SUBJECT 100 C*) WB ML G	Orig Call 26 1 26 1 26 1 27 1 16 1 20 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 20 1 210 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1	10 rotation 10 rot	Earty Earty 2107120 2500720 2500720 2500720 0 0501721 2500720 0 0501721 2500720 0 0501721 2500720 0 0501721 2500720 0 0501721 2500720 0 0500720 1050720 0 0500720 1050720 0 0500720 107620 0 0500720 107620 0 107620 1976221 0 1994621 1994621 0 1994621 1994621 1 1976221 1994621 1 1976221 1994621 1 1976221 1994621 1 1976221 1994621 1 1976221 1994621 1 197421 199471 1 200441 1934121 1 197421 1934121 1 1974221 1934121 1 1974221 199421 1 1974221 199421 1 1974221 199421 1 1974221 199421 1 1974221 199421 <tr< td=""><td>64072 240724 610623</td><td>Lefte Finish 150CT20 220CT20 220CT20 220CT20 220CC20 220CC20 220CC20 220CC20 220CC20 220CC20 075CT20 075CT20 075CT20 075CT20 075CT20 075CC20 105CC20 1</td><td>ider, MSCS, 1956 by hand South Pet. Pond-Exet. WSP, P6, 1910 (Optional by Others) Set or 17.5. (228-16)223. (227-26)23. (227-26) (227-76)252-60) Set UT VIEW, Control C</td></tr<>	64072 240724 610623	Lefte Finish 150CT20 220CT20 220CT20 220CT20 220CC20 220CC20 220CC20 220CC20 220CC20 220CC20 075CT20 075CT20 075CT20 075CT20 075CT20 075CC20 105CC20 1	ider, MSCS, 1956 by hand South Pet. Pond-Exet. WSP, P6, 1910 (Optional by Others) Set or 17.5. (228-16)223. (227-26)23. (227-26) (227-76)252-60) Set UT VIEW, Control C

ACTIVITY	Activity	Orig		Tota		Early	Late	
5 19	Description	Dur		Floa		Finish	Finish	
25000	NBRW Bent 2-18 Excav. Footings	17			19MAY204		10JUN20A	
10178	Abandon Exis. Elec. Poles & Cable	70			09JUN20A	18AUG20A	18AUG20A	
25054	NBRW Bent 2-18 54" Drill Shaft	26			11JUN20A	16JUL20A	16JUL20A	
25104	NBRW Bent 2-18 F&P Footings	26	1		17JUL20A	21AUG20A	21AUG20A	│
25150	NBRW Bent 2-18 F&P Columns		1		24AUG20A	28SEP20A	28SEP20A	
25155A	TaxDOT Erroneuously Questions Column	0	1	(29SEP20	28SEP20	28SEP20	interruptible algorithm
10234A	ConnedTractor Wrong Sizes Pipe	0			29SEP20	28SEP20	11NOV20	
10750	48" 42" 36" 24" SS Line "U" - Install	1	1 1	3		120CT20	25NOV20	
25202	NBRW Bent 10-18 S&D,Pour Caps	- 27	1		95EP20	04NOV20	04NOV20	32 days float for 48" pipe
25200	NBRW Bent 2-9 S&D,Pour Caps	2	1		29SEP20	300CT20	04NOV20	
55610	WB ML Exc./Embk/SG Prep (228+15-252+50)	25	1		7 29SEP20	02NOV20	23DEC20	0 days float for pour caps r
55612	WB ML 6" L.T.S. (228+15-252+50)	5	1		7 060CT20	09NOV20	31DEC20	
55614	WB ML 12" FB (TyD, Gr2) (228+15-252+50)	25	1		7 130CT20	16NOV20	08JAN21	
25250	NBRW Set Beams Spans 1-18	9	1		05NOV20	17NOV20	17NOV20	
25300	NBRW Slab Unit 1	10			18NOV20	01DEC20	01DEC20	
25302	NBRW Slab Unit 2	10			02DEC20	15DEC20	15DEC20	
55616 55618	WB ML 6" Ty A ACP (228+15-252+50) WB ML 11" CRCP (228+15-252+50) (4.600 CY)	4		-	7 23NOV20	11DEC20	04FEB21	duration and prior to the second seco
25304	NBRW Slab Unit 3	15			16DEC20	30DEC20	30DEC20	duration zero prior to
25304	NBRW Slab Unit 3 NBRW Slab Unit 4	10			31DEC20	30DEC20 14JAN21	30DEC20 14JAN21	
25306	NBRW Slab Unit 5	10			15JAN21	14JAN21 28JAN21	14JAN21 28JAN21	two causative events
25300	NBRW Slab Unit 6	10			29JAN21	11FEB21	11FEB21	
1260	Traffic Handling, WB P1S2 to P2S1 (120-252+50)	5) 12FEB21	18FEB21	18FEB21	
10672	36" 24" SS Line "F" & "K" - Install	10) 19FEB21	04MAR21	04MAR21	
10872	1-8'x6' & 7-8'x4' MBC-Culv, "B" (203+65)	20) 19FEB21	18MAR21	18MAR21	
10846	36" RCP-Line "O"	10			05MAR21	18MAR21	18MAR21	
4010	Operations Building	210*			12MAR21	30DEC21	12JAN22	▋▌▕▏▋▋▕▎▋▋▏▌▋▋▋▋▋▋▌ <mark>▀▋▙▙▙▙▙▙▙▙▙▙</mark> ▋▋▋▋▌▌▌
10842	24" RCP- Culv's "E1-E4"	5) 19MAR21	25MAR21	25MAR21	
4570	Barrier Plaza	204*) 19MAR21	29DEC21	12JAN22	
10860	36" RCP-Line "N"	5	-		26MAR21	01APR21	01APR21	
								■ · · · · · · · · · · · · ■ · · · ■ · · · ■ · · · ■ · · · ■ ·
		-		Tot	-			2019 2020 2021 2021 2022
Activity ID	Activity	Orig	Cal	Tot	al Early	Early	Late	2019 2020 2021 2022 H D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J A S
Activity ID	Activity Description	Orig Dur	Cal ID	Tot	al Early It Start	Early Finish	Late Finish	2019 2020 2021 2021 2022 2021 2022 2021 2022 2021 2022 2021 2022 2021 2022 2021 2022 2
Activity ID 25000	Activity Description NBRW Bent 2-18 Excav. Footings	Orig Dur 17	Cal ID 1	Tot	al Early t Start 19MAY20/	Early Finish	Late Finish 10JUN20A	
Activity ID 25000 10178	Activity Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable	Orig Dur 17 70	Cal ID 1 2	Tot	t Early Start 19MAY204 09JUN20A	Early Finish 10JUN20A 18AUG20A	Late Finish 10JUN20A 18AUG20A	
Activity ID 25000 10178 25054	Activity Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54° Drill Shaft	Orig Dur 17 70 26	Cal ID 1 2 1	Tot	t Early 5tart 19MAY20/ 09JUN20A 11JUN20A	Early Finish 10JUN20A 18AUG20A 16JUL20A	Late Finish 10JUN20A 18AUG20A 16JUL20A	
Activity ID 25000 10178 25054 25104	Activity Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54° Drill Shaft NBRW Bent 2-18 F&P Footings	Orig Dur 17 70 26 26	Cal ID 1 2 1 1 1 1 1	Tot	Early t Start 19MAY20A 09JUN20A 11JUN20A 17JUL20A	Early Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A	Late Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A	
Activity ID 25000 10178 25054	Activity Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54° Drill Shaft	Orig Dur 17 70 26	Cal ID 1 2 1 1 1 1 1	Tot	t Early 5tart 19MAY20/ 09JUN20A 11JUN20A	Early Finish 10JUN20A 18AUG20A 16JUL20A	Late Finish 10JUN20A 18AUG20A 16JUL20A	
Activity ID 25000 10178 25054 25104 25150	Activity Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54° Drill Shaft NBRW Bent 2-18 F&P Columns	Orig Dur 17 70 26 26 26	Cal ID 1 2 1 1 1 1 1 1 1 1	Tot	Early t Start 19MAY20A 09JUN20A 11JUN20A 17JUL20A	Early Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 28SEP20A	Late Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 28SEP20A	continuous algorithm
Activity ID 25000 10178 25054 25104 25150 25155A	Activity Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54" Drill Shaft NBRW Bent 2-18 F&P Footings NBRW Bent 2-18 F&P Columns TaxDOT Erroneuously Questions Column	Orig Dur 17 70 26 26 26 26 26 0	Cal ID 1 2 1 1 1 1 1 1 1 1 1 1 1 1	Tot	Early tt Start 19MAY20A 09JUN20A 11JUN20A 17JUL20A 24AUG20A 29SEP20 29SEP20	Early Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 28SEP20A 28SEP20	Late Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 28SEP20A 04AUG20 27AUG20	continuous algorithm
Activity ID 25000 10178 25054 25104 25150 25155A 10234A	Activity Description NBRW Bert 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54° Drill Shaft NBRW Bent 2-18 F&P rootings NBRW Bent 2-18 F&P rootings NBRW Bent 2-18 F&P columns TaxDOT Erroneuously Questions Column ConnedTractor Wrong Sizes Pipe	Orig Dur 17 26 26 26 26 0 0	Cal ID 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tota Floa	Early Start 19MAY20A 09JUN20A 11JUN20A 17JUL20A 24AUG20A 24AUG20A 29SEP20 29SEP20 23SEP20A	Early Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 28SEP20A 28SEP20 28SEP20 28SEP20	Late Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 28SEP20A 04AUG20	continuous algorithm
Activity ID 25000 10178 25054 25104 25150 25155A 10234A 10750	Activity Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54° Drill Shaft NBRW Bent 2-18 F&P Columns TaxDOT Erroneuously Questions Column ConnedTractor Wrong Sizes Pipe 48° 42° 36° 24° SS Line °U° - Install	Orig Dur 17 70 26 27 28 29 20 21 22 23 34 35 36 37 37 38 39 39 39 39 39 39 39	Cal ID 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tota Floa	I Early t Start 19MAY20A 09JUN20A 11JUN20A 11JUN20A 24AUG20A 9 9 29SEP20 2 28SEP20 2 28SEP20A 1ASCT20 14SCT20	Early Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 28SEP20A 28SEP20 28SEP20 16NOV20	Late Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 28SEP20A 04AUG20 27AUG20 150CT20	continuous algorithm
Activity ID 25000 10178 25054 25104 25150 25155A 10234A 10750 25202	Activity Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54" Drill Shaft NBRW Bent 2-18 54P Cotings NBRW Bent 2-18 54P Columns TaxDOT Erroneuously Questions Column ConnedTractor Wrong Sizes Pipe 48" 42" 36" 24" SS Line "U" - Install NBRW Bent 10-18 S&D,Pour Caps	Orig Dur 17 70 26 26 26 26 26 0 0 0 18 27	Cal ID 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tot: Floa	Early 19MAY20/ 09JUN20A 11JUN20A 17JUL20A 24AUG20/ 9 29SEP20 2 23SEP20 2 3SEP20 1 3SEP20 1 3SEP20 1 3SEP20	Early Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 28SEP20A 28SEP20 16NOV20 18NOV20	Late Finish 10JUN20A 18AUG20A 21AUG20A 24SEP20A 04AUG20 27AUG20 150CT20 24SEP20	-22 days float for 48" pipe
Activity ID 25000 10178 25054 25104 25150 25155A 10234A 10750 25202 25200	Activity Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54° Drill Shaft NBRW Bent 2-18 F&P Footings NBRW Bent 2-18 F&P Footings NBRW Bent 2-18 F&P Columns TaxDOT Erroneurously: Questions Column ConnectTractor Wrong Sizes Pipe 48° 42° 36° 24° SS Line "U" - Install NBRW Bent 10-18 S&D, Pour Caps NBRW Bent 2-9 S&D, Pour Caps	Orig Dur 17 70 26 26 26 0 0 0 0 18 27 24	Cal ID 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tot: Floa	al Early t Start 19MAY20A 09JUN20A 11JUN20A 17JUL20A 24AUG20A 29SEP20 29SEP20 29SEP20 29SEP20 29SEP20 29SEP20 29SEP20 29SEP20	Early Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 28SEP20A 28SEP20 28SEP20 16N0V20 18N0V22 300CT20	Late Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 28SEP20A 04AUG20 27AUG20 150CT20 24SEP20 24SEP20	-22 days float for 48" pipe
Activity ID 25000 10178 25054 25154 25155A 10234A 10750 25202 25202 25200 55610	Activity Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54° Drill Shaft NBRW Bent 2-18 F&P Columns TaxDOT Erroneuously Questions Column ConnedTractor Wrong Sizes Pipe 48° 42° 36° 24° SS Line "U" - Install NBRW Bent 10-18 S&D,Pour Caps NBRW Bent 2-9 S&D,Pour Caps NBRW Bent 2-9 S&D,Pour Caps VB ML Exc./Embk/SG Prep (228+15-252+50)	Orig Dur 17 70 26 26 26 26 0 0 0 18 27 24 24 25	Cal ID 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tota Floa	al Early t Start 19MAY20A 09JUN20A 11JUN20A 17JUL20A 24AUG20A 29SEP20 29SEP20 29SEP20 29SEP20 29SEP20 29SEP20 29SEP20 29SEP20	Early Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 28SEP20A 28SEP20A 28SEP20 28SEP20 16NOV20 16NOV20 18NOV20 02NOV20	Late Finish 10JUN20A 18AUG20A 21AUG20A 28SEP20A 04AUG20 27AUG20 150CT20 24SEP20 150CT20	continuous algorithm
Activity ID 25000 10178 25054 25150 25155A 10234A 10750 25202 25200 255610 55612	Activity Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54° Drill Shaft NBRW Bent 2-18 F&P Footings NBRW Bent 2-18 F&P Footings TaxDOT Erroneuously Questions Column ConnedTractor Wrong Sizes Pipe 48° 42° 36° 24° SS Line "U" - Install NBRW Bent 10-18 S&D, Pour Caps NBRW Bent 2-9 S&D, Pour Caps NBRW Bent 2-9 S&D, Pour Caps NBRW Bent 2-9 S&D, Pour Caps WB ML Exc./Embk/SG Prep (228+15-252+50) WB ML Exc./Embk/SG Prep (228+15-252+50)	Orig Dur 17 26 26 26 26 26 26 26 26 26 26 26 26 26	Cal ID 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tota Floa	I Early Start 19MAY20/ 09JUN20A 1JJUN20A 11JUN20A 11JUN20A 17JUL20A 24AUG20/ 29SEP20 29SEP20 2055EP20 29SEP20 29SEP20 29SEP20 29SEP20 29SEP20 2055EP20 29SEP20 2050 29SEP20 2050 2050	Early Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 28SEP20 28SEP20 16NOV20 16NOV20 02NOV20 09NOV20	Late Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 28SEP20A 04AUG20 27AUG20 15OCT20 24SEP20 24SEP20 24SEP20 15OCT20 22OCT20	-22 days float for 48" pipe
Activity ID 25000 10178 25054 25150 25155A 10234A 10750 25202 25200 25501 55612 55614 255614 25250 25300	Activity Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54° Drill Shaft NBRW Bent 2-18 F&P Footings NBRW Bent 2-18 F&P Footings NBRW Bent 2-18 F&P Columns ConnedTractor Wrong Sizes Pipe 48° 42° 36° 24° SS Line "U" - Install NBRW Bent 10-18 S&D,Pour Caps NBRW Bent 2-9 S&D,Pour Caps NBRW Bent 2-9 S&D,Pour Caps WB ML Exc./Embk/SG Prep (228+15-252+50) WB ML 12° FB (TyD, Gr2) (228+15-252+50) NBRW Set Beams Spans 1-18 NBRW Set But nt 1	Orig Dur 17 70 26 27 24 25 5 25 9 10	Cal ID 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tota Float -3 -2 -3 -2 -3 -1 -1 -1 -1 -1 -3 -3	I Early t Start 19MAY20/ 09JUN20A 11JUN20A 11JUN20A 17JUL20A 24AUG20/ 24AUG20/ 29SEP20 29SEP20 29SEP20A 29SEP20 29SEP20A 29SEP20 29SEP20A 29SEP20 29SEP20A 10SU120 29SEP20 20SU20 30SUV20 10NOV20 19NOV20 9 02DEC20 02DEC20	Early Finish 18AUG20A 16JUL20A 21AUG20A 28SEP20A 28SEP20A 28SEP20A 28SEP20A 16NOV20 16NOV20 300CT20 02NOV20 02NOV20 09NOV20 01DEC20	Late Finish 10JUN20A 16JUL20A 21AUG20A 28SEP20A 04AUG20 27AUG20 27AUG20 15OCT20 24SEP20 24SEP20 15OCT20 24SEP20 22OCT20 26NOV20 07OCT20	-22 days float for 48" pipe
Activity ID 25000 10178 25054 25150 25155A 10234A 10750 25202 25202 25202 55612 55612 55612 25300 25300	Activity Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54° Drill Shaft NBRW Bent 2-18 F&P Columns TaxDOT Erroneuously Questions Column ConnedTractor Wrong Sizes Pipe 48° 42° 36° 24° SS Line "U" - Install NBRW Bent 10-18 S&D, Pour Caps NBRW Bent 2-9 S&D, Pour Caps WB ML Exc./Embk/SG Prep (228+15-252+50) WB ML 6° L.T.S. (228+15-252+50) WB ML 10° TB (TyD, Gr2) (228+15-252+50) WB ML 11° B(TyD, Gr2) (228+15-252+50) NBRW Set Beams Spans 1-18 NBRW Slab Unit 1 NBRW Slab Unit 2	Orig Dur 17 70 26 26 26 26 26 26 26 26 26 26 26 26 26	Cal ID 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tot. Floa	I Early 19MAY20/ 09JUN20A 19JMAY20/ 09JUN20A 11JUN20A 11JUN20A 24AUG20/ 29SEP20 2 28SEP20 2 28SEP20 2 29SEP20 2 29SEP20 2 29SEP20 2 30NOV20 2 10NOV20 9 02DEC20 9 16DEC20	Early Finish 10JUN20A 18AUG20A 28SEP20 28SEP20 28SEP20 16NOV20 18NOV20 09NOV20 09NOV20 09NOV20 014DEC20 015DEC20 30DEC20	Late Finish 10JUN20A 18JUG20A 18JUG20A 21AUG20A 24SEP20A 27AUG20 15OCT20 24SEP20 15OCT20 24SEP20 15OCT20 24SEP20 15OCT20 26NOV20 07OCT20 21OCT20 04NOV20	-22 days float for 48" pipe
Activity ID 25000 10178 25154 25155A 10234A 10750 255202 25202 25202 25202 55610 55612 55614 255614 255612 55614 25302 25302	Activity Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 F&P Footings NBRW Bent 1-18 F&P Columns ConnedTractor Wrong Sizes Pipe 48° 42° 36° 24° SS Line "U" - Install NBRW Bent 1-0-18 S&D.Pour Caps NBRW Bent 1-0-18 S&D.Pour Caps NBRW Bent 2-9 S&D.Pour Caps WB ML 6° L.T.S. (228+15-252+50) WB ML 12° FB (TyD, Gr2) (228+15-252+50) NBRW Slab Unit 1 NBR Ty Slab Unit 1 NBRW Slab Unit 1 NBR W Slab Unit 1 NBR Ty Slab Unit 1	Orig Dur 17 700 266 266 266 266 266 267 277 244 255 55 25 99 100 100 4	Cal ID 1 2 1	Tot Floa	I Early 19MAY20/ 19MAY20/ 09JUN20A 19JUN20A 11JUN20A 11JUN20A 24AUG20/ 29SEP20 29SEP20 29SEP20 29SEP20 29SEP20 29SEP20 29SEP20 203NOV20 10NOV20 203NOV20 19NOV20 202DE220 10ROV20 202DE220 16DEC20 15DEC20 15DEC20	Early Finish 10JUN20A 18AUG20A 18JUL20A 21AUG20A 28SEP20 28SEP20 28SEP20 18NOV20 18NOV20 02NOV20 09NOV20 09NOV20 14DEC20 15DEC20 18DEC20	Late Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 223EV20A 24SEP20 24SEP20 24SEP20 150CT20 220CT20 28NOV20 070CT20 210CT20 210CT20 04NOV20 04DV20	-22 days float for 48" pipe
Activity ID 25000 10178 25054 25150 25155A 10750 25202 25202 25200 55612 255614 25250 25300 25301 25302 25302 25302	Activity Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 F&P Footings NBRW Bent 1-18 S&D Footings NBRW Bent 10-18 S&D, Pour Caps NBRW Bent 2-9 S&D, Pour Caps NBRW Set D-1-18 S&D, Pour Caps NBRW Set D-1-18 S&D, Pour Caps NBRW Set Deams Spans 1-18 NBRW Set Dunt 1 NBRW Set Dunt 1 NBRW Set Dunt 1 NBRW Set Dunt 2 WB ML 6" Ty A ACP (228+15-252+50) WB ML 6" TOR (226+15-252+50) WB ML 1" CRCP (228+15-252+50) WB ML 1" CRCP (228+15-252+50)	Orig Dur 17 70 26 26 26 26 26 26 26 26 26 26 26 26 26	Cal ID 1 2 1	Tota Float -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3	il Early t Start 19MAY20J 09JUN20A 09JUN20A 24AUG20AUG20A 24AUG20A 24AUG20A 24AUG20A 24AUG20A 24AUG20A	Early Finish 10JUN20A 16JUL20A 28SEP20A 28SEP20A 28SEP20 16NOV20 18NOV20 02NOV20 09NOV20 09NOV20 09NOV20 09NOV20 09NOV20 14DEC20 15DEC20 15DEC20 18DEC20 18DEC20	Late Finish 10JUN20A 18AUG20A 21AUG20A 21AUG20A 23SEP20A 04AUG20 27AUG20 150CT20 24SEP20 24SEP20 24SEP20 24SEP20 24SEP20 24SEP20 24SEP20 26NOV20 070CT20 26NOV20 070CT20 210CT20 210CT20 210CT20 02DEC20 23DEC20	-22 days float for 48" pipe
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Activity ID 25000 10178 25054 251554 10234A 10750 25155A 10234A 10750 25252 25200 55614 25250 25300 25302 25304 25304 25304 25304	Activity Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 F&P robings NBRW Bent 2-19 S&D. Pour Caps NBRW Bent 10-18 S&D. Pour Caps NBRW Bent 12-9 S&D. Pour Caps NBRW Bent 2-9 S&D. Pour Caps NBRW Seab Unit 10-18 S&D. Pour Caps NBRW Sab Unit 1 NBRW Slab Unit 2 WP ML (1" T CACP (228+15-252+50) WB ML 11" CRCP (228+15-252+50) WB ML 11" CRCP (228+15-252+50) NBRW Slab Unit 3 NBRW Slab Unit 3 NBRW Slab Unit 3	Orig Dur 17 70 26 26 26 26 0 0 0 0 0 0 0 0 18 8 27 24 25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Cal ID ID 1 2 1 3 1 4 1 5 1 6 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tot Floa 	I Early 19MA'Y20J 19MA'Y20J 09JUN20A 09JUN20A 19JUN20A 11JUN20A 11JUN20A 24AUG20A 29SEP20 24SEP20 29SEP20 29SEP20 29SEP20 29SEP20 29SEP20 29SEP20 29SEP20 20SOU2 29SEP20 20SOU2 20SOU20 10SOU20 10SOU20 10SOU20 10SOU20 21SDEC20 21SEC20 21SEC20 15LSAU21	Early Finish 10JUN20A 18AUG20A 16JUL20A 285EP20 285EP20 285EP20 300CT20 02NOV20 09NOV20 09NOV20 09NOV20 09NOV20 09NOV20 09NOV20 01DEC20 14DEC20 01DEC20 14DEC2	Late Finish 10JUN20A 16JUL20A 21AUG20A 28SEP20A 04AUG20 27AUG20 27AUG20 24SEP20 150CT20 24SEP20 150CT20 24SEP20 150CT20 24SEP20 24SEP20 24SEP20 24SEP20 24SEP20 250CT20 220CT20 24SEP20 210CT20 23DEC20 23DEC20 18N0V20 02DEC20	-22 days float for 48" pipe
Activity ID 25000 10178 25104 25150 25155A 10750 25202 25202 25202 25202 25200 255614 25200 255614 255614 255614 25300 25302 25304 25304 25304	Activity Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54° Drill Shaft NBRW Bent 2-18 F&P Footings NBRW Bent 2-18 F&P Lower Caps NBRW Bent 10-18 S&D, Pour Caps NBRW Bent 2-9 S&D, Pour Caps WB ML Exc./EmblySG Prep (228+15-252+50) WB ML Exc./EmblySG Prep (228+15-252+50) WB ML 12° F D (V/D, G/2) (228+15-252+50) WB ML 12° T F D (V/D, G/2) (228+15-252+50) WB ML 11° T Y A ACP (228+15-252+50) WB ML 16° T Y A ACP (228+15-252+50) WB ML 11° CRCP (228+15-252+50) (4,600 CY) NBRW Slab Unit 3 NBRW Slab Unit 4 NBRW Slab Unit 4 NBRW Slab Unit 4	Orig Dur Dur 266 266 266 266 266 266 266 265 255 55 255 55 255 2	Cal ID ID 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Totx Floa	i Early i Start 19MAY20J 09JUN20A 09JUN20A 11JUN20A 11JUN20A 24AUG20A	Early Finish 10JUN20A 16JUL20A 28SEP20A 28SEP20A 28SEP20A 28SEP20 18N0V20 18N0V20 18N0V20 18N0V20 02N0V20 09N0V20 01DEC20 15DEC20 010EC20 18DEC20 18DEC20 18DEC20 18DEC20 18DEC20 18JAN21 14JAN21 28JAN21	Late Finish 10JUN20A 18AUG20A 28SEP20A 04AUG20 27AUG20 150CT20 24SEP20 24SEP20 24SEP20 24SEP20 24SEP20 24SEP20 24SEP20 24SEP20 24SEP20 250CT20 070CT20 220CT20 070CT20 210CT20 04N0V20 02DEC20 18N0V20 02DEC20 18N0V20	-22 days float for 48" pipe
Activity ID 25000 10178 25004 25154 251554 251554 10234A 10750 25262 25200 25302 256616 25300 25302 25302 25306	Activity Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54" Drill Shaft NBRW Bent 2-18 F&P Footings NBRW Bent 2-18 F&P Footings NBRW Bent 2-18 F&P Columns TaxDOT Erroneuoualy Questions Column ConnedTractor Wrong Sizes Pipe 48" 42" 36" 24" SS Line "U" - Install NBRW Bent 10-18 S&D, Pour Caps NBRW Bent 10-18 S&D, Pour Caps WB ML 6" L.T.S. (228+15-252+50) WB ML 12" FB (TyD, Gr2) (228+15-252+50) WB ML 12" FB (TyD, Gr2) (228+15-252+50) WB ML 6" Ty A ACP (228+15-252+50) WB ML 11" CRCP (228+15-252+50) WB ML 5 NBRW Slab Unt 4 NBRW Slab Unt 5	Origg Dur 177 266 266 0 0 0 0 18 18 27 25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Cal ID ID ID ID 1 I 1 I 1 ID 1	Totx Float -3 -3 -2 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3	I Early 19MA/200 19MA/200 19MA/200 09JUN20A 09JUN20A 11JUN20A 11JUN20A 21JUN20A 29SEP20 22SEP20A 29SEP20 23SEP20A 29SEP20 33TBC20D 3TSEP20 23SAN21 212FEB21 23SAN21 212FEB21	Early Finish 10JUN20A 16JUL20A 285EP20 285EP20 285EP20 285EP20 300CT20 02NOV20 09NOV20 300CT20 300EC20 15DEC20 30DEC20 15DEC20 30DEC20 15DEC20 30DEC20 12JAN21 14JAN21 14JAN21	Late Finish 10JUN20A 18JUL20A 18JUL20A 28SEP20A 04AUG20 27AUG20 24SEP20A 15OCT20 24SEP20 15OCT20 24SEP20 15OCT20 24SEP20 15OCT20 24SEP20 15OCT20 24SEP20 21OCT20 20CC20 21OCC20 21OCC20 21OCC20 21OCC20 21OCC20 21OCC20 21OCC20 21OCC20 20CC20 2	-22 days float for 48" pipe
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Activity D 25000 10178 25054 251554 10234A 10750 25155A 10234A 10750 252520 25200 25200 25200 25200 25300 25300 25300 25300 25306 2556 25	Activity Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 F&P Footings NBRW Bent 1-18 F&D Opur Caps NBRW Bent 10-18 S&D Pour Caps NBRW Bent 2-9 S&D, Pour Caps NBRW Slab Unit 1 NBRW Slab Unit 1 NBRW Slab Unit 1 NBRW Slab Unit 3 NBRW Slab Unit 4 NBRW Slab Unit 5 NBRW Slab Unit 6	Orig Dur 1770 266 266 266 266 266 266 266 266 266 26	Cal Cal ID ID ID 1 I 1 I 1 ID 1	Tot. Floz	I Early 19MA/Y20, 09JUN20A 19MA/Y20, 09JUN20A 19MA/Y20, 09JUN20A 19MA/Y20, 09JUN20A 19MA/Y20, 09JUN20A 11JUN20A 11JUN20A 11JUN20A 24AUG20, 24SEP20 20SEP20 29SEP20 20SEP20 29SEP20 20SEP20 29SEP20 20SEP20 20SEP20 20SEP20 10SC120 20SEP20 10SC120 20SEP20 20SEP20 20SEP20 20SEP20 20SEP20 10SC120 20SEP20 10SC120 21SEC20 10SUC20 21SEC20 31DEC20 21SEC20 31DEC20 21SUC20 12FEB21 20SEF21 20SEF21 20SEF21 05MAR21 20SER21 05MAR21	Early Finish 10JUN20A 16JUL20A 285EP20 285EP20 285EP20 285EP20 300CT20 02NOV20 09NOV20 300CT20 02NOV20 09NOV20 300CC20 15DEC20 15DEC20 300EC20 15DEC20	Late Finish 10JUN20A 18JUL20A 18JUL20A 28SEP20A 04AUG20 27AUG20 24SEP20A 15OCT20 24SEP20 15OCT20 24SEP20 15OCT20 24SEP20 15OCT20 24SEP20 24SEP20 24SEP20 24SEP20 24SEP20 21OCT20 21OCT20 21OCT20 21OCT20 21OCT20 21OCT20 21OCT20 21OCT20 21OCT20 21OCT20 21OCT20 21OCT20 21OCT20 23DEC20 18NOV20 02DEC20 18NOV20 00DEC20 0 00DEC20 0 00DEC20 0 00DEC20 0 00DEC20 0 00DEC20 0 0 00DEC20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-22 days float for 48" pipe
Activity ID 25000 10178 25054 25155A 10750 25502 25202 25202 25202 25202 25202 25202 25202 25202 25202 25501 255612 25304 25500 25500 25500 25500 25500 25500 25500 25500 25500 25500 25500 2550	Activity Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 F&P robings NBRW Bent 2-9 S&D, Pour Caps NBRW Set Dearns Spans 1-18 NBRW Sab Unit 1 NBRW Slab Unit 2 WB ML (1" CRCP (228+15-252+50) WB ML (1" CRCP (228+15-252+50) WB ML (1" CRCP (228+15-252+50) WB ML 11" CRCP (228+15-252+50) NBRW Slab Unit 3 NBRW Slab Unit 4 NBRW Slab Unit 5 NBRW Slab Unit 5	Orig Orig Dur 17 700 266 266 266 266 266 266 266 267 265 255 55 255 55 255 55 99 100 100 100 100 5 100 5 100 50 100 100	Cal Cal ID ID ID 1 2 1 3 1 4 1 5 1 6 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tot Flow Flow -3 -3 -2 -3 -3 -2 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3	I Early 19MAY20J 19MAY20J 99JUN20A 19JUN20A 11JUN20A 11JUN20A 24AUG20A 24AUG20A 24AUG20A 24AUG20A 24AUG20A 24AUG20A 24AUG20A 20SEP20 20SEP20 20SEP20 20SEP20 20SEP20 20SUP20 20SUP20 20SUP200 20SUP20<	Early Finish 10JUN20A 285EP20A 285EP20A 285EP20A 285EP20 285EP20 16NOV20 18NOV20 18NOV20 18NOV20 02NOV20 09NOV20 09NOV20 09NOV20 09NOV20 09NOV20 09NOV20 300EC20 18DEC	Late Finish 10JUN20A 18AUG20A 21AUG20A 21AUG20A 23SEP20A 04AUG20 27AUG20 150CT20 24SEP20 24SEP20 24SEP20 24SEP20 24SEP20 24SEP20 24SEP20 24SEP20 26NOV20 070CT20 220CT20 26NOV20 070CT20 210CT20 200CT20 210CT20 200CT	-22 days float for 48" pipe
Activity ID 25000 10178 25054 25154 251554 251554 252522 25200 25302 256616 25300 25302 25302 25306 25306 25306 25308 2556 2556 2556 2556 2556 256	Activity Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 F&P Footings NBRW Bent 2-10-18 S&D, Pour Caps NBRW Bent 2-9 S&D, Pour Caps NBRW Set D-12-5 (228+15-252+50) WB ML 6 ⁺ L.T.S. (228+15-252+50) WB ML 12 ⁻ FB (TyO, Gr2) (228+15-252+50) WB ML 6 ⁺ Ty A ACP (228+15-252+50) WB ML 11 ⁺ CRCP (228+15-252+50) WB ML 11 ⁺ S NBRW Slab Unt 5 NBRW Slab Unt	Orig Orig 177 700 266 266 266 0 0 0 187 255 5 5 5 5 9 9 100 10 100 5 100 5 100 100 200 100	Cal ID ID 1 2 1 2 1 2 1 3 1 4 1 5 1 6 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tot Floz Floz -3 -3 -2 -3 -2 -3 -3 -2 -2 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3	I Early 19MA/202 19MA/202 09JUN20A 09JUN20A 19JUN20A 11JUN20A 11JUN20A 21JUN20A 244U0202 22SEP20 29SEP20 23SEP20 29SEP20 23SEP20 29SEP20 23SEP20 29SEP20 23SEP20 29SEP20 23SEP20 29SEP20 23SEP20 19SC120 10SDEC20 16DEC20 16DEC20 15JAN21 23HEDE21 3HDEC20 12FB21 29SHAN21 20FEB21 20FMAR21 20FMAR21 26MAR21 20FMAR21 26MAR21	Early Finish 10JUN20A 16JUL20A 285EP20 285EP20 285EP20 285EP20 285EP20 285EP20 285EP20 285EP20 285EP20 285EP20 285EP20 285EP20 285EP20 285EP20 200720 02NOV20 09NOV20 09NOV20 09NOV20 09NOV20 09NOV20 14DEC20 01DEC20 30DEC20 15DEC20 15DEC20	Late Finish 10JUN20A 18AUG20A 18JUL20A 21AUG20A 28SEP20A 04AUG20 27AUG20 24SEP20A 15OCT20 24SEP20 15OCT20 24SEP20 15OCT20 24SEP20 15OCT20 24SEP20 15OCT20 24SEP20 210CT20 24SEP20 210CT20 210CT20 210CT20 210CT20 210CT20 210CT20 23DEC20 16DEC20 16DEC20 31DEC20 08JAN21 22JAN21 05FEB21 05FEB21 12JAN22	-22 days float for 48" pipe
Activity D 25000 10178 25054 251554 10234A 10750 2525554 102344 10750 25202 25200 55612 25202 25201 25501 25501 25501 25302 25304 10844 010844 10844 10844 10844 10844 10844 10845 1085 1085 1085	Activity Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 F&P robings NBRW Bent 2-9 S&D, Pour Caps NBRW Bent 10-18 S&D, Pour Caps NBRW Bent 2-9 S&D, Pour Caps NBRW Seab Unit 10-18 S&D, Pour Caps NBRW Seab Unit 1 NBRW Seab Unit 1 NBRW Seab Unit 1 NBRW Slab Unit 3 NBRW Slab Unit 4 NBRW Slab Unit 5 NBRW Sla	Orig Dur 17 700 266 267 255 255 255 255 255 255 255 255 255 255 255 255 260 210*	Cal ID ID 1 ID 1 I 1	Tot Flow -2 -3 -3 -2 -2 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3	I Early 19MAY20J 19MAY20J 99JUN20A 19JUN20A 11JUN20A 11JUN20A 24M202J 22SEP20 29SEP20 23SEP20 20SEC20 31DEC20 31DEC20 31SJAN21 25FEB21 30SMAR21 30SMAR21 30SMAR21 30ZAPR24 30ZAPR24 30ZAPR24	Early Finish 10JUN20A 18AUG20A 16JUL20A 285EP20 285EP20 285EP20 300CT20 02NOV20 09NOV20 09NOV20 09NOV20 09NOV20 09NOV20 09NOV20 09NOV20 09NOV20 09NOV20 09NOV20 09NOV20 01EC20 14DEC20	Late Finish 10JUN20A 10JUN20A 21AUG20A 24AUG20 27AUG20 27AUG20 24SEP20A 150CT20 24SEP20 24SEP20 150CT20 24SEP20 24SEP20 150CT20 220CT20 24SEP20 27OCT20 220CT20 23DFC20 23DFC20 23DFC20 16DFC20 23DFC20 16DFC20 31DFC20 08JAN21 22JAN22 12JAN22 12JAN22	-22 days float for 48" pipe
Activity D 25000 10178 25004 25194 251954 251554 251554 251554 251552 255610 55612 25501 55612 25500 55612 25501 25502 25502 25300 25306 2556 2556 2556 2556 2556 2556 2556 2556 2556 2556 2556 2556 25	Activity Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 F&P Footings NBRW Bent 2-10-18 S&D, Pour Caps NBRW Bent 2-9 S&D, Pour Caps NBRW Set D-12-5 (228+15-252+50) WB ML 6 ⁺ L.T.S. (228+15-252+50) WB ML 12 ⁻ FB (TyO, Gr2) (228+15-252+50) WB ML 6 ⁺ Ty A ACP (228+15-252+50) WB ML 11 ⁺ CRCP (228+15-252+50) WB ML 11 ⁺ S NBRW Slab Unt 5 NBRW Slab Unt	Orig Orig 177 700 266 266 266 0 0 0 187 255 5 5 5 5 9 9 100 10 100 5 100 5 100 100 200 100	Cal ID ID 1 ID 1 I 1	Totur Float -3 -3 -2 -2 -2 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3	I Early 19MA/202 19MA/202 09JUN20A 09JUN20A 19JUN20A 11JUN20A 11JUN20A 21JUN20A 244U0202 22SEP20 29SEP20 23SEP20 29SEP20 23SEP20 29SEP20 23SEP20 29SEP20 23SEP20 29SEP20 23SEP20 29SEP20 23SEP20 19SC120 10SDEC20 16DEC20 16DEC20 15JAN21 23HEDE21 3HDEC20 12FB21 29SHAN21 20FEB21 20FMAR21 20FMAR21 26MAR21 20FMAR21 26MAR21	Early Finish 10JUN20A 16JUL20A 285EP20 285EP20 285EP20 285EP20 285EP20 285EP20 285EP20 285EP20 285EP20 285EP20 285EP20 285EP20 285EP20 285EP20 200720 02NOV20 09NOV20 09NOV20 09NOV20 09NOV20 09NOV20 14DEC20 01DEC20 30DEC20 15DEC20 15DEC20 30DEC20 15DEC20 30DEC20 15DEC20	Late Finish 10JUN20A 18AUG20A 18JUL20A 21AUG20A 28SEP20A 04AUG20 27AUG20 24SEP20A 15OCT20 24SEP20 15OCT20 24SEP20 15OCT20 24SEP20 15OCT20 24SEP20 15OCT20 24SEP20 210CT20 24SEP20 210CT20 210CT20 210CT20 210CT20 210CT20 210CT20 23DEC20 16DEC20 16DEC20 31DEC20 08JAN21 22JAN21 05FEB21 05FEB21 12JAN22	-22 days float for 48" pipe

Aqtivity	Activity	Orig		Total	Early	Early	Late	2019 2020 2021 2021 2021 2021 2021 2021
ID ID	Description	Dur		Float	Start	Finish	Finish	
25000	NBRW Bent 2-18 Excav. Footings	17	1		19MAY20A	10JUN20A	10JUN20A	
10178	Abandon Exis. Elec. Poles & Cable	70	2		09JUN20A	18AUG20A	18AUG20A	
25054	NBRW Bent 2-18 54" Drill Shaft	26	1		11JUN20A	16JUL20A	16JUL20A	
25104	NBRW Bent 2-18 F&P Footings	26	1		17JUL20A	21AUG20A	21AUG20A	
25150	NBRW Bent 2-18 F&P Columns	26	1		24AUG20A	28SEP20A	28SEP20A	
25155A	TaxDOT Erroneuously Questions Column	10	1	-10	2)SEP20	120CT20	28SEP20	
10234A	ConnedTractor Wrong Sizes Pipe	25	1	7	29SEP20	02NOV20	11NOV20	
10750	48" 42" 36" 24" SS Line "U" - Install	18	1	7	28SEP20A	16NOV20	25NOV20	
25202	NBRW Bent 10-18 S&D,Pour Caps	27	1	-10	180СТ20	18NOV20	04NOV20	
25200	NBRW Bent 2-9 S&D,Pour Caps	24	1	3	29SEP20	30OCT20	04NOV20	
55610	WB ML Exc./Embk/SG Prep (228+15-252+50)	25	1	37	29SEP20	02NOV20	23DEC20	
55612	WB ML 6" L.T.S. (228+15-252+50)	5	1	37	06OCT20	09NOV20	31DEC20	
55614	WB ML 12" FB (TyD, Gr2) (228+15-252+50)	25	1	37	130CT20	16NOV20	08JAN21	
25250	NBRW Set Beams Spans 1-18	9	1	-10	19NOV20	01DEC20	17NOV20	ConnedTractor's Claim: TaxDOT stops work thinking
25300	NBRW Slab Unit 1	10	1	-10	02DEC20	15DEC20	01DEC20	TaxDOT stops work thinking
25302	NBRW Slab Unit 2	10	1	-10	16DEC20	30DEC20	15DEC20	F&P Column misplaced,
55616	WB ML 6" Ty A ACP (228+15-252+50)	4	1	37	17NOV20	20NOV20	14JAN21	▼ survey wastes 10 days.
55618	WB ML 11" CRCP (228+15-252+50) (4,600 CY)	15	1	37	23NOV20	11DEC20	04FEB21	ConnedTractor acknowledges
25304	NBRW Slab Unit 3	10	1	-10	31DEC20	14JAN21	30DEC20	
25306	NBRW Slab Unit 4	10	1		15JAN21	28JAN21	14JAN21	ordered wrong size pipe takes 25 days to reorder. BUT Caps were critical, Pipe had 32 days float
25308	NBRW Slab Unit 5	10	1	-10	29JAN21	11FEB21	28JAN21	25 days to reorder.
25310	NBRW Slab Unit 6	10	1	-10	12FEB21	25FEB21	11FEB21	BUT Caps were critical,
1260	Traffic Handling, WB P1S2 to P2S1 (120-252+50)	5	1	-10	26FEB21	04MAR21	18FEB21	Pipe had 32 days float
10672	36" 24" SS Line "F" & "K" - Install	10	1	-10	05MAR21	18MAR21	04MAR21	ConnedTractor entitled to
10840	1-8'x6' & 7-8'x4' MBC-Culv. "B" (203+65)	20	1	-10	05MAR21	01APR21	18MAR21	Pipe had 32 days float ConnedTractor entitled to TEN DAYS EXTENSION
10846	36" RCP-Line "O"	10	1	-10	19MAR21	01APR21	18MAR21	
4010	Operations Building	210*	1	-1	26MAR21	13JAN22	12JAN22	
10842	24" RCP- Culv's "E1-E4"	5	1	-10	02APR21	08APR21	25MAR21	
4570	Barrier Plaza	204*	1	-	02APR21	12JAN22	12JAN22	
10860	36" DCD Line "N"	5	1	10	0440021	15ADD21	01A0021	

Activity	Activity Description	Orig Dur		Total Float	Early Start	Early Finish	Late Finish	2019 N D	9 D J F	MAM	2020 JJJA	S O	N D	js	O N	DJ	2021 F M A M J J		
25000	NBRW Bent 2-18 Excav. Footings	17	1	FIOAL	19MAY20A	10JUN20A	10JUN20A	, i i i i i		<u>uquuşu 😅</u>	₩	u i u i u i		••• •••• •	<u></u>		· · · · · · · · · · · · · · · · · · ·	<mark></mark>	
10178	Abandon Exis. Elec. Poles & Cable	70	2		09JUN20A	18AUG20A	18AUG20A			-	×	,							-
25054	NBRW Bent 2-18 54" Drill Shaft	26			11JUN20A	16JUL20A	16JUL20A							_				🛨 i 🥆 i	
25034	NBRW Bent 2-18 F&P Footings	26			17JUL20A	21AUG20A	21AUG20A				· · · · ·	-						1 : 🔪	
	-											<u>ا ا</u>						- `	
25150	NBRW Bent 2-18 F&P Columns	26			24AUG20A	28SEP20A	28SEP20A					-				÷			
25155A	TaxDOT Erroneuously Questions Column	10			29SEP20	120CT20	18AUG20					i 🗖							
10234A	ConnedTractor Wrong Sizes Pipe	25			29SEP20	02NOV20	010CT20						▼		▼			1	
10750	48" 42" 36" 24" SS Line "U" - Install	18	1		28SEP20A	16NOV20	150CT20												i
25202	NBRW Bent 10-18 S&D,Pour Caps	27	1	-39	110CT20	18NOV20	24SEP20						- 1		-T				
25200	NBRW Bent 2-9 S&D,Pour Caps	24	1	-26	29SEP20	30OCT20	24SEP20						7						
55610	WB ML Exc./Embk/SG Prep (228+15-252+50)	25	1	-12	29SEP20	02NOV20	150CT20						₹			-			
55612	WB ML 6" L.T.S. (228+15-252+50)	5	1	-12	03NOV20	09NOV20	220CT20						₩ 🗸		<u> </u>				
55614	WB ML 12" FB (TyD, Gr2) (228+15-252+50)	25	1	-12	10NOV20	14DEC20	26NOV20							▼	_ 7`	<u> </u>			
25250	NBRW Set Beams Spans 1-18	9	1	-39	19NOV20	01DEC20	07OCT20						n 📮			<u> </u>			
25300	NBRW Slab Unit 1	10	1	-39	02DEC20	15DEC20	210CT20	ľτ	רי זכ	[wł		10111	5						
25302	NBRW Slab Unit 2	10	1	-39	16DEC20	30DEC20	04NOV20		נטר	LWI		1 u I	ш 🖣		-7		ConnedTra	ctor's Cl	aim:
55616	WB ML 6" Ty A ACP (228+15-252+50)	4	1	-12	5DEC20	18DEC20	02DEC20	•		_				₹			TaxDOT stops	work thinki	nσ
55618	WB ML 11" CRCP (228+15-252+50) (4,600 CY)	15	1	-12	1DEC20	12JAN21	23DEC20	11	n Po	6 or) ([11S1	n o		₩L -			
25304	NBRW Slab Unit 3	10	1	-39	1DEC20	14JAN21	18NOV20									- T ,	F&P Column n	1 - 1 1 1 1	rvey
25306	NBRW Slab Unit 4	10	1	-39	15JAN21	28JAN21	02DEC20	l tł	he Co	ntinu	ous a	lgor	ithm		V		wastes 10 days.		_
25308	NBRW Slab Unit 5	10	1	-39	9JAN21	11FEB21	16DEC20						1 1		1	⊨⊽ _ ¯	ConnedTract	or acknowl	edges
25310	NBRW Slab Unit 6	10	1	-39	2FEB21	25FEB21	31DEC20		valci	ulat	inn	sh	$\partial \mathbf{w}$	C		- T			
1260	Traffic Handling, WB P1S2 to P2S1 (120-252+50)	5	1	-39	6FEB21	04MAR21	08JAN21		are	urai	IVII		U vv			- H T	ordered wrong	size pipe tai	ses
10672	36" 24" SS Line "F" & "K" - Install	10	1	-39	05MAR21	18MAR21	22JAN21		\mathbf{b}		1 1						25 days to reor	ler.	
10840	1-8'x6' & 7-8'x4' MBC-Culv. "B" (203+65)	20	1	-39	05MAR21	01APR21	05FEB21	13	99 a	ay c	lela	ιy					BUT Caps v Pipe had 32	vere critical	
10846	36" RCP-Line "O"	10	1	-39	19MAR21	01APR21	05FEB21										Pipe had 32		
	1					I	1	1		1 1 1	1 1	•							14
																		ractor entitl	
																	TEN DAY	YS EXTENS	ION
														· ·		· I	· · · · · · · ·		-

STOTP-	Activity		Cal			Early	Late	
\mathbf{N}	Description	Dur		Flo		Finish	Finish	
25000	NBRW Bent 2-18 Excav. Footings	17	1		19MAY20A	10JUN20A	10JUN20A	
10178	Abandon Exis. Elec. Poles & Cable	70			09JUN20A	18AUG20A	18AUG20A	
25054	NBRW Bent 2-18 54" Drill Shaft	26			11JUN20A	16JUL20A	16JUL20A	
25104	NBRW Bent 2-18 F&P Footings	26	1		17JUL20A	21AUG20A		
25150	NBRW Bent 2-18 F&P Columns	- 26	1		24AUG20A	28SEP20A	28SEP20A	l interruntible algorithm
25155A	TaxDOT Erroneuously Questions Column	10	1	-	10 29SEP20	120CT20	28SEP20	interruptible algorithm
10234A	ConnedTractor Wrong Sizes Pipe	25	1		7 29SEP20	02NOV20	11NOV20	
10750	48" 42" 36" 24" SS Line "U" - Install	-10	1 1		7 18SEP20A	16NOV20		
25202	NBRW Bent 10-18 S&D,Pour Caps	27	1	-	10 50CT20	18NOV20	04NOV20	7 days float for 48" pipe
25200	NBRW Bent 2-9 S&D,Pour Caps	21	1		29SEP20	300CT20	04NOV20	
55610	WB ML Exc./Embk/SG Prep (228+15-252+50)	25	1		37 29SEP20	02NOV20	23DEC20	10 dave float for nour dan
55612	WB ML 6" L.T.S. (228+15-252+50)	5	1		37 06OCT20	09NOV20	31DEC20	-10 days float for pour caps
55614	WB ML 12" FB (TyD, Gr2) (228+15-252+50)	25	1		37 13OCT20	16NOV20	08JAN21	
25250	NBRW Set Beams Spans 1-18	9	1		10 19NOV20	01DEC20	17NOV20	▋: : : : : : : ■ : ■ : ■ : ■▼_ : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
25300	NBRW Slab Unit 1	10			10 02DEC20	15DEC20	01DEC20	
25302	NBRW Slab Unit 2	10	1	-	10 16DEC20	30DEC20	15DEC20	
55616	WB ML 6" Ty A ACP (228+15-252+50)	4		1	07 00100 /00	4405000	0.055000	
55618	WB ML 11" CRCP (228+15-252+50) (4,600 CY)	15			37 23NOV20	11DEC20	04FEB21	disruptive durations of \mathbf{I}
25304	NBRW Slab Unit 3	10			10 31DEC20	14JAN21 28JAN21	30DEC20 14JAN21	
25306 25308	NBRW Slab Unit 4	10			10 15JAN21	28JAN21 11FEB21		two causative events
25308	NBRW Slab Unit 5 NBRW Slab Unit 6	10			10 29JAN21 10 12FEB21	11FEB21 25FEB21	28JAN21 11FEB21	
1260	Traffic Handling, WB P1S2 to P2S1 (120-252+50)	10			10 26FEB21	04MAR21	18FEB21	
1260	36" 24" SS Line "F" & "K" - Install	10		_	10 05MAR21	18MAR21	04MAR21	
10672	1-8'x6' & 7-8'x4' MBC-Culv. "B" (203+65)	20			10 05MAR21	01APR21	18MAR21	
10846	36" RCP-Line "O"	10			10 19MAR21	01APR21	18MAR21	
4010	Operations Building	210*			-1 26MAR21	13JAN22	12JAN22	▋ :
10842	24" RCP- Culv's "E1-E4"	210		_	10 02APR21	08APR21	25MAR21	
4570	Barrier Plaza	204*		+-	0 02APR21	12JAN22	12JAN22	▋ : : : : : : : : : : : : : : : ¹ : : : : : : : : : : : : ₁ : : : ₁ : : : : : : : :
10860	36" RCP-Line "N"	204		-	10 09APR21	15APR21	01APR21	
							a transmitter i	
Activity	Activity	Orig	Cal	To	tal Early	Early	Late	
Activity ID	Activity Description	Orig Dur		Flo	otal Early Dat Start	Early Finish	Late Finish	2020 2022 N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J A S
	-	17	ID	Flo		Finish 10JUN20A	Finish 10JUN20A	
ID	Description		ID	Flo	oat Start	Finish	Finish 10JUN20A	
ID 25000	Description NBRW Bent 2-18 Excav. Footings	17 70 26	1D 2 1	Flo	oat Start 19MAY20A	Finish 10JUN20A	Finish 10JUN20A	
ID 25000 10178 25054 25104	Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54" Drill Shaft NBRW Bent 2-18 F&P Footings	17 70 26 26	ID 1 2 1 1	Flo	Start Start 19MAY20A 09JUN20A 11JUN20A 11JUN20A 17JUL20A 17JUL20A	Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A	Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A	
ID 25000 10178 25054	Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54* Drill Shaft	17 70 26	ID 1 2 1 1	Flo	Start 19MAY20A 09JUN20A 11JUN20A	Finish 10JUN20A 18AUG20A 16JUL20A	Finish 10JUN20A 18AUG20A 16JUL20A	continuous algorithm
ID 25000 10178 25054 25104 25150 25155A	Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54" Drill Shaft NBRW Bent 2-18 F&P Footings	17 70 26 26 26 10	ID 2 1 1 1 1 1 1 1 1 1 1 1 1 1		Start Start 19MAY20A 09JUN20A 11JUN20A 11JUN20A 17JUL20A 17JUL20A	Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A	Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A	continuous algorithm
ID 25000 10178 25054 25104 25150 25155A 10234A	Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54° Drill Shaft NBRW Bent 2-18 F&P Footings NBRW Bent 2-18 F&P Columns TaxDOT Erroneuously Questions Column ConnedTractor Wrong Sizes Pipe	17 70 26 26 26	ID 2 1 1 1 1 1 1 1 1 1 1 1 1 1		Start 19MAY20A 09JUN20A 11JUN20A 17JUL20A 24AUG20A 39 29SEP20 29SEP20	Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 28SEP20A 12OCT20 02NOV20	Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 28SEP20A 18AUG20 010CT20	continuous algorithm
ID 25000 10178 25054 25104 25150 25155A 10234A 10750	Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54" Drill Shaft NBRW Bent 2-18 F&P Footings NBRW Bent 2-18 F&P Columns TaxDOT Erroneuously Questions Column ConnedTractor Wrong Sizes Pipe 48" 42" 36" 24" SS Line "U" - Install	17 70 26 26 26 26 10 25 18	ID 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1		Start 19MAY20A 09JUN20A 11JUN20A 17JUL20A 24AUG20A 29SEP20 22 29SEP20 22 29SEP20A	Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 28SEP20A 12OCT20 02NOV20 16NOV20	Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 28SEP20A 18AUG20 010CT20 150CT20	
ID 25000 10178 25054 25104 25155 25155A 10234A 10750 25202	Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54" Drill Shaft NBRW Bent 2-18 F&P Torlings NBRW Bent 2-18 F&P Columns TaxDOT Erroneuously Questions Column ConnedTractor Wrong Sizes Pipe 48" 42" 36" 24" SS Line "U" - Install NBRW Bent 10-18 S&D,Pour Caps	17 70 26 26 26 26 26 26 26 26 26 10 25 18 27	ID ID		Start 19MAY20A 09JUN20A 11JUN20A 17JUL20A 24AUG20A 39 29SEP20 22 29SEP20 22 39 19SEP20 22 39 19SEP20 23 39 19SEP20	Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 28SEP20A 12OCT20 02NOV20 16NOV20 18NOV20	Finish 10JUN20A 18AUG20A 16JUL20A 28SEP20A 18AUG20A 18AUG20 010CT20 150CT20 24SEP20	
ID 25000 10178 25054 25104 25150 25155A 10234A 10750 25202 25200	Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54" Drill Shaft NBRW Bent 2-18 F&P Footings NBRW Bent 2-18 F&P Columns TaxDOT Erroneuously Questions Column ConnedTractor Wrong Sizes Pipe 48" 42" 36" 24" SS Line "U" - Install NBRW Bent 2-19 S&D, Pour Caps NBRW Bent 2-9 S&D, Pour Caps	17 70 26 26 26 10 25 18 27 24	ID ID 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Start 19MAY20A 09JUN20A 11JUN20A 24AUG20A 29SEP20 22 29SEP20 23 91 30 31 32 33 34 35 36 37 38 39 30 30 30 31 32 39 30 31 32 34 35 36 37 38 39 30 31 32 33 34 35 36 37 38 39 30 31 32 33 34 35 <	Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 28SEP20A 120CT20 02N0V20 16N0V20 300CT20	Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 28SEP20A 18AUG20 010CT20 150CT20 24SEP20 24SEP20	-22 days float for 48" pip
ID 25000 10178 25054 25104 25150 25155A 10234A 10750 25202 25202 25200 55610	Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54" Drill Shaft NBRW Bent 2-18 F&P Cotings NBRW Bent 2-18 F&P Cotings TaxDOT Erroneuously Questions Column ConnedTractor Wrong Sizes Pipe 48" 42" 36" 24" SS Line "U" - Install NBRW Bent 10-18 S&D,Pour Caps NBRW Bent 10-29 S&D,Pour Caps WB ML Exc./Embl/SG Prep (228+15-552+50) WB ML Exc./Embl/SG Prep (228+15-552+50)	17 70 26 26 26 10 25 18 27 24 24	ID ID 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Start 19MAY20A 09JUN20A 11JUN20A 11JUN20A 24AUG20A 29SEP20 22 29SEP20 23 29SEP20 22 29SEP20 22 29SEP20 22 29SEP20 22 29SEP20 22 29SEP20 20 20 20 20	Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 22AUG20A 20CT20 02NOV20 18NOV20 18NOV20 300CT20 02NOV20	Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 22AUG20A 28SEP20A 18AUG20 010CT20 150CT20 24SEP20 150CT20 150CT20 150CT20	-22 days float for 48" pipe
ID 25000 10178 25054 25154 25150 25155A 10234A 10750 25202 25200 255610 55612	Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54" Drill Shaft NBRW Bent 2-18 F&P Torling Shaft NBRW Bent 2-18 F&P Columns TaxDOT Erroneuously Questions Column ConnedTractor Wrong Sizes Pipe 48" 42" 36" 24" SS Line "U" - Install NBRW Bent 10-18 S&D,Pour Caps NBRW Bent 2-9 S&D,Pour Caps WB ML Exc./Embk/SG Prep (228+15-252+50) WB ML 6" L.T.S. (228+15-252+50)	17 70 26 26 26 26 26 26 26 26 26 25 18 27 24 25 5	ID 1 2 1 2 1		Start 19MAY20A 09JUN20A 11JUN20A 17JUN20A 17JUN20A 24AUG20A 24AUG20A 29SEP20 22 29SEP20 22 21SEP20A 39 10SCT20 29SEP20 22 29SEP20 22 29SEP20 12 29SEP20 12 29SEV20	Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 22AUG20A 28SEP20A 12OCT20 02NOV20 16NOV20 18NOV20 300CT20 02NOV20 09NOV20	Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 28SEP20A 18AUG20 010CT20 150CT20 24SEP20 150CT20 24SEP20 150CT20 220CT20	-22 days float for 48" pipe
ID 25000 10178 25054 25150 25155A 10234A 10750 25202 25200 55610 55612 55614	Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54" Drill Shaft NBRW Bent 2-18 F&P Footings NBRW Dent 2-18 F&P Columns TaxDOT Erroneuously Questions Column ConnedTractor Wrong Sizes Pipe 48" 42" 36" 24" SS Line "U" - Install NBRW Bent 10-18 S&D, Pour Caps NBRW Bent 2-9 S&D, Pour Caps WB ML Exc./Embk/SG Prep (228+15-252+50) WB ML 6" L.T.S. (228+15-252+50) WB ML 6" TF (TyD, Gr2) (228+15-252+50)	17 70 26 26 26 10 25 18 27 24 25 5 25	ID 1 2 1 2 1		Start Start 19MAY20A 09JUN20A 09JUN20A 11JUN20A 11JUN20A 24AUG20A 29SEP20 29SEP20 29SEP20 29SEP20 29SEP20 29SEP20 29SEP20 29SEP20 29SEP20 29SEP20 212 29SEP20 12 29SEP20 12 03NOV20 12 10NOV20	Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 28SEP20A 1000000000000000000000000000000000000	Finish 10JUN20A 18AUG20A 16JUL20A 24AUG20A 28SEP20A 010CT20 150CT20 24SEP20 2500V20	
1D 25000 10178 25054 25104 25150 25155A 10234A 10750 25202 25202 25200 55610 55612 55614 25250	Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54" Drill Shaft NBRW Bent 2-18 54P Cotings NBRW Bent 2-18 54P Cotings TaxDOT Erroneuously Questions Column ConnedTractor Wrong Sizes Pipe 48" 42" 36" 24" SS Line "U" - Install NBRW Bent 10-18 S&D,Pour Caps NBRW Bent 10-8 S&D,Pour Caps WB ML Exc./Embl/SG Prep (228+15-252+50) WB ML 6" L.T.S. (228+15-252+50) WB ML 12" FB (TyD, Gr2) (228+15-252+50) NBRW Set Beams Spans 1-18	17 70 26 26 26 10 25 18 27 24 25 5 5 25 9	ID 1 2 1 2 1		Start Start 19MAY20A 09JUN20A 11JUN20A 11JUN20A 17JUL20A 24AUG20A 22 29SEP20 22 29SEP20 22 29SEP20 22 29SEP20 22 29SEP20 23 29SEP20 24 29SEP20 25 29SEP20 26 39SEP20 27 29SEP20 28 39SEP20 29 39SEP20 20 39SEP20 21 20NOV20 21 20NOV20 31 30NOV20	Finish 10JUN20A 18AUG20A 18AUG20A 21AUG20A 22AUG20A 28SEP20A 12OCT20 02NOV20 16NOV20 16NOV20 18NOV20 18NOV20 02NOV20 09NOV20 09NOV20 14DEC20	Finish 10JUN20A 18AUG20A 18JUL20A 21AUG20A 21AUG20A 28SEP20A 18AUG20A 26SEP20A 150CT20 24SEP20 24SEP20 150CT20 24SEP20 24SEP20 26SOV20 070CT20	-22 days float for 48" pipe
ID 25000 10178 25054 25150 25155A 10234A 10750 25202 25200 55610 55612 55614 25250 25300	Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54" Drill Shaft NBRW Bent 2-18 F&P Footings NBRW Bent 2-18 F&P Columns TaxDOT Erroneuously Questions Column Connectractor Wrong Sizes Pipe 48" 42" 36" 24" SS Line "U" - Install NBRW Bent 10-18 S&D, Pour Caps NBRW Bent 2-9 S&D, Pour Caps WB ML Exc./Embk/SG Prep (228+15-252+50) WB ML 12" FB (TyD, Gr2) (228+15-252+50) NBRW Set Beams Spans 1-16 NBRW Set Dunt 1	17 70 26 26 26 10 25 18 27 24 25 5 25 25 9 10	ID 1 2 1		Start Start 19MAY20A 19JIN20A 11JIN20A 11JIN20A 11JUN20A 24AUG20A 24AUG20A 29SEP20 22 29SEP20 23 19NCV20 39 10NCV20 39 10NCV20 39 10NCV20	Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 28SEP20A 120CT20 02N0V20 16N0V20 16N0V20 300CT20 02N0V20 09N0V20 09N0V20 14DEC20 15DEC20	Finish 10JUN20A 18AUG20A 16JUL20A 21AUG20A 28SEP20A 18AUG20 010CT20 24SEP20 150CT20 24SEP20 150CT20 220CT20 28NOV20 070CT20 210CT20	-22 days float for 48" pipe
ID 25000 10178 25054 25104 25150 25155A 10234A 10750 25202 25200 55612 55614 25250 255014 25250 25300 25300	Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54" Drill Shaft NBRW Bent 2-18 F&P Colums MBRW Dent 2-18 F&P Colums TaxDOT Erroneuously Questions Column ConnedTractor Wrong Sizes Pipe 48" 42" 36" 24" SS Line "U" - Install NBRW Bent 10-18 S&D, Pour Caps NBRW Bent 2-9 S&D, Pour Caps WB ML Exc./Embk/SG Prep (228+15-252+50) WB ML 6" L.T.S. (228+15-252+50) WB ML 16" T.F B (7VD, 072) (228+15-252+50) WB ML 11 NBRW Slab Unit 1 NBRW Slab Unit 1 NBRW Slab Unit 1	17 70 26 26 26 10 25 18 27 24 25 5 5 25 9 10 10	ID		Start Start 19MAY20A 93JUN20A 11JUN20A 11JUN20A 11JUN20A 11JUN20A 24AUG20A 24AUG20A 22 295EP20 22 295EP20 22 295EP20 22 295EP20 23 295EP20 23 295EP20 23 295EP20 23 295EP20 23 295EP20 23 19NOV20 39 19NOV20 39 19NOV20 39 16DEC20	Finish 10JUN20A 18AUG20A 18AUG20A 21AUG20A 21AUG20A 22SEP20A 02NOV20 02NOV20 16NOV20 300CT20 02NOV20 16NOV20 14DEC20 01DEC20 15DEC20	Finish 10JUN20A 18AUG20A 18JUL20A 2IAUG20A 2BSEP20A 18AUG20 010CT20 24SEP20 150CT20 24SEP20 150CT20 24SEP20 150CT20 24SEP20 24SEV20 070CT20 04NOV20	-22 days float for 48" pipe
ID 25000 10178 25054 25150 25155A 10234A 10750 25202 25200 255612 55614 25300 25302 25302 55616	Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54" Drill Shaft NBRW Bent 2-18 54P Cotings NBRW Bent 2-18 54P Cotimgs MBW Bent 10-18 S4D, Pour Caps NBRW Bent 10-18 S4D, Pour Caps WB ML Exc./Embk/S6 Prep (228+15-252+50) WB ML Exc./Embk/S6 Prep (228+15-252+50) WB ML Exc./Embk/S6 Prep (228+15-252+50) WB ML S4B Unit 1 NBRW Slab Unit 1 NBRW Slab Unit 2 WB ML C* C428+15-252+50)	17 70 26 26 26 10 25 18 27 24 25 5 25 25 9 9 10 10	ID ID		Start Start 19MAY20A 09JUN20A 11JUN20A 11JUN20A 17JUL20A 24SEP20 22 29SEP20 22 29SEP20 22 29SEP20 22 29SEP20 22 29SEP20 23 19GEP20 24 29GEP20 25 29GEP20 26 29GEP20 27 29GEP20 28 19NOV20 29 19DEC20 21 15DEC20	Finish 10JUN20A 16JUL20A 21AUG20A 28SEP20A 12OCT20 02NOV20 16NOV20 16NOV20 18NOV20 02NOV20 09NOV20 09NOV20 09NOV20 09NOV20 09NOV20 14DEC20 30DEC20	Finish 10JUN20A 118AUG20A 16JUL20A 21AUG20A 21AUG20A 16JUL20A 21AUG20A 150CT20 24SEP20 150CT20 24SEP20 150CT20 24SEP20 26NOV20 070CT20 210CT20 24NOV20 04NOV20 02DEC20	-22 days float for 48" pipe
ID 25000 10178 25054 25104 25104 25104 25104 25100 25502 25202 25202 25200 55612 55614 25250 25300 25302 25302 25306 2556 2556 2576	Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54" Drill Shaft NBRW Bent 2-18 F&P Footings NBRW Bent 2-18 F&P Columns TaxDOT Erroneuously Questions Column ConnedTractor Wrong Sizes Pipe 48" 42" 36" 24" SS Line "U" - Install NBRW Bent 10-18 S&D, Pour Caps NBRW Bent 2-9 S&D, Pour Caps WB ML Exc./Embk/SG Prep (228+15-252+50) WB ML Exc./Embk/SG Prep (228+15-252+50) WB ML Exc./Embk/SG Prep (228+15-252+50) WB ML 12" FB (TyD, Gr2) (228+15-252+50) NBRW Set Beams Spans 1-18 NBRW Slab Unit 1 NBRW Slab Unit 2 WB ML 6" Ty A ACP (228+15-252+50) WB ML 16" Ty A ACP (228+15-252+50) WB ML 6" CRCP (228+15-252+50) WB ML 6" Ty A ACP (228+15-252+50) WB ML 11" CRCP (228+15-252+50)	17 70 26 26 26 10 25 18 27 24 25 5 5 5 5 5 5 5 9 9 10 10 4 15	ID 1 2 1		Start Start 19MAY20A 19JUN20A 11JUN20A 11JUN20A 24AUG20A 24SEP20 22 29SEP20 22 29SEP20 22 29SEP20 22 29SEP20 22 29SEP20 23 10NC/20 23 19NO/20 23 19NO/20 39 02DEC20 39 15DEC20 12 21DEC20	Finish 10.JUN20A 18.AUG20A 18.AUG20A 21.AUG20A 23.SEP20A 120CT20 02N0V20 16N0V20 16N0V20 02N0V20 02N0V20 02N0V20 02N0V20 09N0V20 010EC20 140EC20 115DEC20 115DEC20 18DEC20 18DEC20	Finish 10JUN20A 18AUG20A 21AUG20A 21AUG20A 228EP20A 18AUG20 010CT20 15OCT20 24SEP20 24SEP20 250CT20 24SEP20 250CT20 24SEP20 20CT20 20CT20 07OCT20 04NOV20 02DEC20 23DEC20	-22 days float for 48" pipe
ID 25000 10178 25054 25150 25155 10234A 10750 25202 25000 55614 25550 25502 2500 255614 255614 255616 55618 25302	Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 547 Doill Shaft NBRW Bent 2-18 547 Colums NBRW Bent 2-18 547 Colums NBRW Bent 2-18 547 Colums TaxOOT Erroneuously Questions Column ConnedTractor Wrong Sizes Pipe 48* 42* 36* 24* SS Line *U" - Install NBRW Bent 10-18 S&D,Pour Caps NBRW Bent 2-9 S&D,Pour Caps WB ML Exc./Embk/SG Prep (228+15-252+50) WB ML 6* L.T.S. (228+15-252+50) WB ML 16* T.T.S. (228+15-252+50) NBRW Set Beams Spans 1-18 NBRW Stor Unit 1 NBRW Sbut 0nit 2 WB ML 16* Try A ACP (228+15-252+50) WB ML 11* CRCP (228+15-252+50)	177 700 266 266 266 265 255 255 255 255 255 255	ID II 2 1 2 1		Start Start 19MAY20A 93JUN20A 09JUN20A 11JUN20A 11JUN20A 11JUN20A 11JUN20A 24AUG20A 24AUG20A 29SEP20 22 29SEP20 22 29SEP20 22 29SEP20 12 29SNOV20 23 19NOV20 39 19NOV20 39 19EC20 12 15DEC20 12 12DEC20 33 31DEC20	Finish 10JUN20A 16JUL20A 16JUL20A 21AUG20A 22SEP20A 22SEP20A 22SEP20A 22NOV20 02NOV20 02NOV20 05NOV20 05NOV20 05NOV20 05NOV20 05NOV20 05NOV20 05NOV20 05NOV20 05NOV20 05NOV20 15DEC20 15DEC20 12JAN21 14JAN21	Finish 10JUN20A 18AUG20A 18JUL20A 21AUG20A 24SEP20A 18AUG20 010CT20 24SEP20 150CT20 24SEP20 150CT20 24SEP20 150CT20 220CT20 28NOV20 070CT20 210CT20 200CCT20 200CCT20 200CCT20 200CC20 23DEC20 18NOV20	-22 days float for 48" pipe
ID 25000 10178 25054 25155A 10750 25202 25201 25202 25202 25202 25501 25502 25202 25501 25502 25501 25502 25501 25302 25304 25304 25304 25304	Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 F&P Footings NBRW Bent 2-18 F&P Footings NBRW Bent 2-18 F&P Columns TaxDOT Erroneuously Questions Column ConnectTractor Wrong Sizes Pipe 48° 42° 36° 24° SS Line "U" - Install NBRW Bent 2-19 S&D, Pour Caps NBRW Bent 2-9 S&D, Pour Caps WB ML Exc./Embk/SG Prep (228+15-252+50) WB ML 1. T.S. (228+15-252+50) WB ML 12° FB (TyD, Gr2) (228+15-252+50) NBRW Beb Unit 1 NBRW Slab Unit 2 WB ML 11° CRCP (228+15-252+50)	177 700 266 266 266 265 255 255 255 255 99 100 100 44 155 100 100	ID 1 2 1		Start Start 19MAY20A 19JUN20A 11JUN20A 11JUN20A 11JUN20A 24AUG20A 24AUG20A 29SEP20 22 29SEP20 22 29SEP20 22 29SEP20 23 19NC/20 39 19NC/20 39 10NC/20 39 10DCC20 39 10DC20 39 10DC20 >> 10DC20	Finish 10.JUN20A 10.JUN20A 10.JUN20A 10.JUN20A 20.SEP20A	Finish 10JUN20A 18AUG20A 18JUL20A 21AUG20A 23SEP20A 28SEP20A 28SEP20A 24SEP20 24SEP20 24SEP20 24SEP20 24SEP20 25OCT20 27OCT20 27OCT20 21OCT20 07OCT20 21OCT20 21OCT20 23DEC20 23DEC20 18NOV20 02DEC20	-22 days float for 48" pipe
ID 25000 10178 25054 25155 10234A 10750 25202 25501 25500 55612 55614 25300 25300 25302 25302 25304 25304 25304 25304 25304 25304 25308	Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54" Orill Shaft NBRW Bent 2-18 F&P Footings NBRW Bent 2-18 F&P Footings NBRW Bent 2-18 F&P Columns TaxDOT Erroneuously Questions Column ConnedTractor Wrong Sizes Pipe 48" 42" 36" 24" SS Line "U" - Install NBRW Bent 10-18 S&D, Pour Caps NBRW Bent 2-9 S&D, Pour Caps WB ML Exc./Embk/SG Prep (228+15-252+50) WB ML Exc./Embk/SG Prep (228+15-252+50) WB ML 12" FB (TyD, G/2) (228+15-252+50) WB ML 6" Ty A ACP (228+15-252+50) WB ML 16" Ty A ACP (228+15-252+50) WB ML 16" Ty A ACP (228+15-252+50) WB ML 16" Ty A ACP (228+15-252+50) WB ML 11 NBRW Slab Unit 1 NBRW Slab Unit 4 NBRW Slab Unit 4 NBRW Slab Unit 4	177 700 266 266 266 255 255 255 255 255 255 255	ID 1 2 1		Start Start 19MAY20A 19JUN20A 11JUN20A 11JUN20A 24AUG20A 24SEP20 22 29SEP20 23 29SEP20 22 29SEP20 23 39NOV20 12 29SEP20 23 9NOV20 12 10NOV20 39 10DEC20 39 16DEC20 12 215DEC20 39 15DEC20 39 31DEC20 39 31DAV21	Finish 10.JUN20A 10.JUN20A 10.JUL20A 21.AUG20A 21.AUG20A 22.SEP20A 120CT20 0280V20 0280V20 0280V20 0280V20 0280V20 0980V20 0980V20 0980V20 0980V20 0980V20 140EC20 136EC20 136EC20 136EC20 136EC20 136EC20 130	Finish 10JUN20A 18AUG20A 18JUL20A 21AUG20A 228EP20A 18OCT20 15OCT20 24SEP20 15OCT20 26SCT20 200CT20 200CT20 200CT20 200CT20 200CT20 200CT20 200CT20 200CT20 200CT20 200CC20 210CT20 04NOV20 02DEC20 18NOV20 02DEC20 18DEC20	-22 days float for 48" pipe
ID 25000 10178 25054 25150 25155A 10234A 10750 25202 25200 25501 25501 25501 25501 25501 25501 25300 25300 25306 25306 25306 25306 25306	Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 547 Doill Shaft NBRW Bent 2-18 547 Colums NBRW Bent 2-18 547 Colums TaxDOT Erroneuosly Questions Column ConnedTractor Wrong Sizes Pipe 48* 42* 36* 24* SS Line *U" - Install NBRW Bent 10-18 S&D,Pour Caps NBRW Bent 10-29 S&D,Pour Caps WB ML Exc./Embk/SG Prep (228+15-252+50) WB ML 6* L.T.S. (228+15-252+50) WB ML 16* T.T.S. (228+15-252+50) NBRW Set Beams Spans 1-18 NBRW Slab Unit 1 NBRW Slab Unit 2 WB ML 16* Try A ACP (228+15-252+50) WB ML 11* CRCP (228+15-252+50) (4,600 CY) NBRW Slab Unit 3 NBRW Slab Unit 4 NBRW Slab Unit 5 NBRW Slab Unit 5	177 700 266 266 266 100 255 188 277 244 255 55 255 255 255 255 100 100 100 100 100 100 100	ID 1 2 1		Start Start 19MAY20A 9JUN20A 09JUN20A 11JUN20A 11JUN20A 11JUN20A 11JUN20A 11JUN20A 24AUG20A 24SEP20 22 29SEP20 23 29SEP20 24 29SEP20 25 29SEP20 26 29SEP20 27 29SEP20 28 29SEP20 29 29SEP20 21 20NOV20 39 19NOV20 39 19NOV20 39 19EC20 31DEC20 31DEC20 39 15JAN21 39 12ESE21	Finish 10JUN20A 16JUL20A 16JUL20A 21AUG20A 22SEP20A 23SEP20A 23SEP20A 23SEP20A 23SEP20A 18N0V20 300CT20 02N0V20 18N0V20 300CT20 02N0V20 18DEC20 15DEC20 18DEC20 18DEC20 18DEC20 18JAN21 11FEB21 25FEB21	Finish 10JUN20A 18AUG20A 18JUL20A 21AUG20A 24SEP20A 18DUCT20 24SEP20 150CT20 24SEP20 24SEP20 150CT20 24SEP20 250CT20 26NOV20 070CT20 20DEC20 3DBC20 18NOV20 02DEC20 18NOV20 02DEC20 31DEC20	-22 days float for 48" pipe
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10 25000 10178 25054 25150 25155A 10234A 10750 25202 25200 55614 25200 55614 25200 55614 25200 55616 25300 25302 25304 25304 25304 25304 25306 25304 25306 2556 25	Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54" Drill Shaft NBRW Bent 2-18 F&P Colums MBRW Dent 2-18 F&P Colums TaxDOT Erroneuously Questions Column ConnedTractor Wrong Sizes Pipe 48" 42" 36" 24" SS Line "U" - Install NBRW Bent 10-18 S&D, Pour Caps NBRW Bent 10-29 S&D, Pour Caps NBRW Bent 10-18 S&D, Pour Caps WB ML 25" 26" 24" SS Line "U" - Install NBRW Bent 10-18 S&D, Pour Caps WB ML 6" L.T.S. (228+15-252+50) WB ML 16" T.F (0 (7V), 0.72) (228+15-252+50) WB ML 11 NBRW Slab Unit 1 NBRW Slab Unit 1 NBRW Slab Unit 1 NBRW Slab Unit 3 NBRW Slab Unit 4 NBRW Slab Unit 5 NBRW Slab Unit 6 Traffic Handling, WB P1S2 to P2S1 (120-252+50) 36" 24" SS Line "F" & "K" - Install	177 700 266 266 266 266 266 265 255 255 255 255	ID 1 2 1		Start Start 19MAY20A 93JUN20A 11JUN20A 11JUN20A 17JUL20A 24SUG20A 24AUG20A 24SEP20 22 29SEP20 22 29SEP20 22 29SEP20 23 19NC120 12 20SEP20 23 90NV20 39 02DEC20 39 18DEC20 12 21DEC20 39 12DEC20 39 25JAN21 39 26FE821 39 05MAR21	Finish 10JUN20A 10JUN20A 10JUN20A 12JUN20A 12JUN20A 12JUN20A 12OCT20 02NOV20 02NOV20 02NOV20 02NOV20 02NOV20 02NOV20 02NOV20 02NOV20 02NOV20 02NOV20 02NOV20 0150EC20 15DEC20	Finish 10JUN20A 18AUG20A 18JUL20A 21AUG20A 21AUG20A 150CT20 28SEP20A 150CT20 24SEP20 150CT20 24SEP20 150CT20 24SEP20 150CT20 24SEP20 150CT20 24NOV20 070CT20 04NOV20 02DEC20 18NOV20 02DEC20 18DEC20 31DEC20 08JAN21 22JAN21	-22 days float for 48" pipe
ID 25000 10178 25054 25150 25155A 10750 25202 25201 25202 25501 25502 25501 25502 25501 25502 25501 25501 25302 25304 25306 25308 25308 25309 25301 1260 10672 10840	Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 F&P Footings NBRW Bent 2-18 F&P Footings NBRW Bent 2-18 F&P Footings NBRW Bent 2-18 F&P Columns TaxDOT Erroneuously Questions Column ConnectTractor Wrong Sizes Pipe 48° 42° 36° 24° SS Line "U" - Install NBRW Bent 10-18 S&D, Pour Caps NBRW Bent 2-9 S&D, Pour Caps WB ML 6° L.T.S. (228+15-252+50) WB ML 12° FB (TyD, Gr2) (228+15-252+50) WB ML 12° TF (TyD, Gr2) (228+15-252+50) NBRW Slab Unit 1 NBRW Slab Unit 2 WP ML 11° CRCP (228+15-252+50) (4,600 CY) NBRW Slab Unit 3 NBRW Slab Unit 3 NBRW Slab Unit 3 NBRW Slab Unit 5 NBRW Slab Unit 6 NBRW Slab Unit 6 NBRW Slab Unit 6 NBRW Slab Unit 6 Traffic Handling, WB PIS2 to P2S1 (12	177 700 266 266 266 266 266 265 255 255 255 255	ID ID 1 2 1		Start Start 19MAY20A 19JUN20A 11JUN20A 11JUN20A 11JUN20A 24AUG20A 24AUG20A 29SEP20 22 29SEP20 22 29SEP20 22 29SEP20 22 29SEP20 23 19NOV20 39 19NOV20 39 10DEC20 39 15LAN21 39 15LAN21 39 12E20 30 25FE20 31 12FE20 39 13DEC20 39 15LAN21 39 12FE21 39 12FE21 39 12FE21 39 13MA21 39 15MAR21	Finish 10.JUN20A 10.JUN20A 10.JUN20A 10.JUN20A 28SEP20A 28SEP20A 28SEP20A 28SEP20A 28SEP20A 20SEV20 2100V20 20N0V20 20	Finish 10JUN20A 18AUG20A 18JUL20A 21AUG20A 23SEP20A 28SEP20A 28SEP20A 24SEP20 24SEP20 24SEP20 24SEP20 25OCT20 27OCT20	-22 days float for 48" pipe
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ID 25000 10178 25054 25150 251550 25150 25202 25300 25202 25302 25304 25306 25304 25306 25506 2550	Description NBRW Bent 2-18 Excav. Footings Abandon Exis. Elec. Poles & Cable NBRW Bent 2-18 54" Drill Shaft NBRW Bent 2-18 54" Drull Shaft NBRW Bent 10-18 S&D, Pour Caps NBRW Bent 10-18 S&D, Pour Caps NBRW Bent 10-18 S&D, Pour Caps WB ML 16" L.T.S. (228+15-252+50) WB ML 16" T.F B (TyD, Gr2) (228+15-252+50) WB ML 16" T.Y A ACP (228+15-252+50) WB ML 11" CRCP (228+15-252+50) (4,600 CY) NBRW Slab Unt 1 NBRW Slab Unt 2 NBRW Slab Unt 3 NBRW Slab Unt 4 NBRW Slab Unt 5 NBRW Slab Unt 5 NBRW Slab Unt 5 NBRW Slab Unt 6 Traffic Handing, WB PIS2 to P2S1 (120-252+50) 36" ACP-Stx4' MBC-Cutv. "B" (203+65) 36" & RCP-Line "O" Operations Building	177 700 266 266 266 255 255 255 255 99 9100 100 100 100 100 100 100 200 210 [±]	ID I 1 2 1		Start Start 19MAY20A 19JUN20A 11JUN20A 11JUN20A 11JUN20A 24AUG20A 22 29SEP20 22 29SEP20 23 9SEP20 24 29SEP20 23 9SEP20 24 29SEP20 25 29SEP20 26 29SEP20 27 29SEP20 28 10NOV20 39 10PC20 39 10PC20 39 12FE020 39 15JAN21 39 12FE021 39 12FE021 39 05MAR21 39 05MAR21 39 05MAR21 30 12MAR21	Finish 10JUN20A 16JUL20A 16JUL20A 21AUG20A 22SEP20A 22SEP20A 22SEP20A 22NOV20 02NOV20 02NOV20 02NOV20 02NOV20 02NOV20 02NOV20 02NOV20 02NOV20 02NOV20 02NOV20 02NOV20 02NOV20 015DEC20 015DEC20 015DEC20 015DEC20 15DE	Finish 10JUN20A 108JUG20A 18JUL20A 21AUG20A 28SEP20A 18AUG20 18DUC20A 28SEP20A 28SEP20A 28SEP20A 28SEP20 24SEP20 24SEP20 24SEP20 24SEP20 220CT20 28NOV20 070CT20 23DEC20 18NOV20 02DEC20 31DEC20 31DEC20 031DEC20 031DEC20 031DEC20 031DEC20 13DAN21 05FEB21 12JAN22	-22 days float for 48" pipe



Direct Examination

Testimony for the Contractor





Fact Witness

- ConnedTractor's preparation of Logic Network and choice of software
- Ranjeet Gadhoke is our Fact Witness
- Preparation of Logic Network is by Super and Team
- Choice of software is usually a Corporate Decision
- My experience with a variety of softwares over the years
- P6 v OPC support today and tomorrow
- OPC v ASTA review of features and costs



Fact Witness

- ConnedTractor's choice of GOD to finish on time and win \$400,000 is:
- Adam Saur is our Fact Witness
- Preparation of Logic Network is by Super and Team and Scheduler
- Job going well until 28sep20 some normal issues all resolved
- Excavation for 42" Sanitary Sewer but discovered 40" pipe delivered
- Inspector Clue So suddenly believes our column in wrong location



Cross-Examination





Re-Direct Examination





Closing Arguments





Closing for Plaintiff

- We will assume the FACTS provided above have been introduced.
- Now we will consider the arguments of counsel:
- JIM Coleman for ConnedTractor:
- Simple Case: Concurrent Disruption is not Concurrent Delay
- Sewer work had 32 days float and even after 25 days delay had 7
- Column cap work was critical 10 day delay needs 10 days remediation
- All other talk just to confuse you



Closing for Defendant

- Dan Lund for TaxDOT:
- Simple Case: We have a Contract
- Claims for time related delay must be performed on our instance of OPC
- OPC review of submitted CPM indicate contractor cannot finish on time
- Contractor needed to work OT to complete on time
- Delays of 25 days to Sewer and 10 days to Column Cap were concurrent

Rebuttal

- JIM Coleman for ConnedTractor:
- Rebuttal
- "it was worth \$4m to the Legislature to have finished ON-TIME"
- "it was finished ON-TIME despite active interference of TaxDOT's Inspector Clue So"
- "ConnedTractor is entitled to \$180,000 to mitigate TaxDOT's actions"







Questions?

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- Dan Lund, Esq.

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