CITY OF SAN ANGELO BELL STREET PAVING, WATER AND WASTWATER IMPROVEMENTS PHASE I SAN16188

ADDENDUM NO. 2 August 2, 2017

00 91 13 ADDENDUM NUMBER 002

The following additions, deletions, modifications, or clarifications shall be made to the appropriate sections of the Contract Documents. Bidders shall acknowledge receipt of this Addendum in the space provided on the Bid Form.

The Pre-Bid Questions Response Log documents all questions received by July 31, 2017 with responses provided by Freese and Nichols, Inc. If a question warranted a change to the bid documents then those changes are reflected in the addenda and supporting documentation. If a question did not warrant a change to the bid documents, a response is provided as part of the response log, which has been included as an attachment to this Addendum.





FREESE AND NICHOLS, INC. TEXAS REGISTERED ENGINEERING FIRM F-2144







Project: Bell Street Paving, Water, and Wastewater Improvements FNI Project: SAN16188 Last Updated: 8/2/2017

QUESTIO	STIONS/CORRECTIONS FROM PRE-BID AGENDA					
NUM.	QUESTION	RESPONSE	ACTION			
1	Correction, Item III-2 is for 18-inch wastewater line instead of 15- inch.	FNI will update Price Proposal.	Bid Item III-2 has been updated to 18-inch wastewater line instead of 15-inch wastewater line.			
2	Addition: 1) Bid item for Rehau Municipex water service line (poly) or compatible material.	FNI will provide clarification in specification since material for water service line is not a bid item.	Specifications have been updated to allow Rehau Municipex water service line as acceptable material in Addendum 01, Item A1-2 A. No bid item has been added.			
3	Addition: 2) Rock excavation.	See response to Question 31. Rock is anticipated to be encountered. Per the specifications, no additional compensation will be made for rock excavation, as it will be considered subsidiary to excavation.	General Notes sheet in plans have been updated. Refer to Addendum 01, Item A1-4 C.			
4	Backfill of sewer trench – for deep trench, compacted native soil may be used in place of flexbase. Flexbase still must be placed for 24 inches below pavement section.	Plans and details will be updated.	Detail 4 on Sheet DT-1 has been updated to allow native soil backfill within allowable constraints and compaction requirements. Flex base still must be placed for 24 inches below pavement. Specifications have been updated to note that there will be no additional payment for use of flex base over native backfill. Refer to Addendum 01, Item A1-1 E.			
5	TV wastewater main – TV of existing sewer main is not required.	FNI will update specification to provide clarification.	Specification has been updated in Addendum 1, Item A1-1 H to state that City will perform all CCTV and associated cleaning of the existing and new SS main.			
6	Compaction – density testing of backfill material.	Frequency of testing for roadway base course and subgrade is shown on CoSA Standard Detail S-EE-1 on Sheet 52 of the plans. Frequency of testing for utility backfill has been shown in the Addendum 01, Item A1-1 A.	Specification has been updated in Addendum 01, Item A1-1 A.			
7	Confirm number of 4-ft and 5-ft manholes.	Confirmed to be 26 manholes total.	Quantities for 4-ft and 5-ft manholes have been updated in Price Proposal. See Items III-9, III-10, III- 11, III-12.			

QUESTIO	UESTIONS SUBMITTED ON: JULY 20, 2017					
NUM.	QUESTION	RESPONSE	ACTION			
8	Is there an Engineer's estimate?	Yes. Estimated range of construction costs is \$4,500,000 - \$5,500,000.	None.			
9	Will bids be read aloud on August 3, 2017 at 2:00 PM?	Yes, the bids will be read aloud at the time of bid opening.	None.			
10	Will a printed copy of the bid form (complete with unit prices and amounts) be acceptable in lieu of hand writing all the unit prices and extensions?	Yes, either method of completing the bid form will be acceptable.	None.			
11	Does the excavation quantity reflect alternate "A" or alternate "B"? Shouldn't the excavation item be placed with the alternates?	Excavation quantities will be provided with bid alternate as suggested.	The revised bid form has been updated to reflect estimated quantites associated with each bid alternate. Refer to Price Proposal Items IA-4 and IB- 2.			

	PHASE I PRE-BID QUESTIONS RESPONSE LOG			FREESE	Innovative approaches Practical results Outstanding service	
Project:	Bell Street Paving, Water, and Wastewater Improvements	FNI Project:	SAN16188		Last Updated:	8/2/2017
12	There appears to be an overlap in bid items I-3 and I-4. The excavation quantity back calculates an average of 1.85' of cut based on the cement stabilized SY's. Looking over the cross sections and plan profile sheets, it's hard to see an additional 8" to 20" of asphalt and base being excavated as well?	Yes, there is o per the metho in the specific item for a des calculations h	verlap with e d of average ations. See th cription of hc ave been revi	arthwork calculcated end areas described e adjacent action w the earthwork sed.	Since the City desi asphalt pavement for pavement rem only the HMAC (4' excavation quanti alternate now incl but not the existin been added on Sh earthwork was cal 01, Item A1-1 C fo salvaging asphalt p	res to salvage the existing , we have revised the description loval (Bid Item I-3) to include " thick avg). The updated ties provided for each bid ludes the existing base material ig HMAC. A general note has leet NOTES-2 to describe how the lculated. Also refer to Addendum ir more clarification regarding pavement.
13	There are several power poles two to three feet off of the back of the existing curb and gutter. Since the road is widening, will these poles be relocated?	Franchise utili coordinated w throughout th	ty relocations vith the respe e design proc	s have been ctive utility owners cess.	These poles will n Franchise Utility C	eed to be relocated by the Iwner.
14	Per 2014 TXDOT specifications item 341 the minimum Type B hot mix thickness is 2.5" (page 245 item 341 in the TXDOT spec book). The bid item is for 2" of Type B mix? Maybe go with 2.5" of Ty-B and 1.5" of Ty-D?	Agree. See th description of have been rev	Agree. See the adjacent action item for a T Jescription of how the HMAC layer thicknesses 2 nave been revised. r			sign has been revised to reflect .5" of Ty-D as shown on the .tion sheet TS-02.
15	The Plan and Profile sheets indicate the project ends at station 58+50. The TCP plans are showing continuing to station 69+50?	TCP plans sho that goes past Phase I. The p sewer continu	w the require the planned aving stops a les to station	d TCP for the Sewer paving limits for t 58+50, while the 69+50.	None.	
16	There is not a pay item for the 6" hot mix transition between station 58+50 and 59+00.	See adjacent a	ee adjacent action item for clarification.		A General Note wa describes paymen in Revised Bid Iter GR HMA TY D).	as added on Sheet NOTES-2 that It for this work is to be included n Numbers I-6 (FL BS) and I-9 (D-
17	On the last page of the bid form, what makes up the total base bid? I'm assuming everything but Alternate A and B. Should the Total Base + Alt A or B include the contingency money as well?	Total Base doe or Alt B. Total Base + A money.	otal Base does not include contingency or Alt A T or Alt B. Total Base + Alt A or B includes the contingency noney.		The City Purchasir clarification.	ig POC stated she would offer
18	Will a 2-course penetration pavement be acceptable in lieu of the 2" temporary hot mix pavement (item I-10)?	City said at the asphalt surfac for temporary	e Pre-Bid mee e treatment v hot mix pave	eting that a 2-course would be acceptable ement.	A General Notes h to allow the use o surface treatment HMAC item indica	as been added to Sheet NOTES-2 f alternative 2-course asphalt :s in lieu of the 2" temporary ited.
19	ON PAGE 98 OF THE SPECIFICATION: Temporary Bypass Pumping it states contractor to implement Pumping system for the purpose of diverting the existing flow around the work area for the duration of The project. Question: Are you requiring us to pump the existing sewer regardless if it needs to be or not to install new line? If the answer is no, can you identify what portions of the line are going to need to be Bypassed.	No, the specif additional clar specification i: performance I and allow the the installation most comfort	No, the specification has been updated for additional clarification. The intent of the specification is to provide the regulatory and site beerformance requirements for by-pass pumping and allow the contractor to develop a plan using the installation means and methods they feel nost comfortable with.		Refer to Addendu Specifications sect 4.29, which has be clarification regard	m 01, Updated Technical ion for updated Specification een reissued to provide ding by-pass pumping.
20	On page 120 of the Specification Furnishing and placing topsoil it states furnishing and placing of approved Topsoil to the depths and area shown on the plans or as directed by the owner. Question: The water and sewer sheets do not show any topsoil placement. Phone lines and gas lines are being relocated along the same route the new sewer and water lines will be taking. If topsoil needs to be placed how are we to identify what area?	The specificat based specific to achieve the by the drill see that bid item.	ion is meant (ation. Anythi e vegetation p eding specific	o be a performance- ng necessary required ercentage required ation is subsidary to	Specifications hav no additional payr of topsoil will be r A. Payment of fur be subsidiary to d meet vegetation e in specifications.	e been updated to indicate that nent for furnishing and placing nade in Addendum 01, Item A1-3 'nishing and placing of topsoil will rill seeding and contractor should establishment requirements listed

	PHASE I PRE-BID QUESTIONS RESPONSE LOG	FREESE	Innovative approaches Practical results Outstanding service
Project:	Bell Street Paving, Water, and Wastewater Improvements	FNI Project: SAN16188	Last Updated: <u>8/2/2017</u>
21	Question: Bid item II-14 Shows 7 each 1-inch water services. Plans show 8 ea. Sta; 4+19-Sta-19+03 Sta 32+22 Sta. 34+59 Sta. 35+61 Sta. 39+52 Sta. 41+60	Quantity Verified. There are 8 1-inch water services total called for at the stations listed. One station was not included in the list in the question, 2+57.	Refer to Price Proposal Item II-14 and Addendum 01 Updated Drawings section, updated Sheet NOTES-04.
22	Question: Bid item II-6 Shows water line placed inside of casing plan sheet W-3 There are 13 other crossing were Water crosses sewer line. Could we have a bid item because of the large number and expense? Sta.10+29 Sta. 12+56 Sta.15+25 Sta. 20+53 Sta. 20+69 Sta. 25+25 Sta. 30+35 Sta. 30+48 Sta. 34+83 sta. 35+35 Sta. 38+59 Sta. 42+52 Sta. 43+59	Crossings have been verified. If casing is required due to the available separation it has been shown on the plans and quantities updated in the bid form.	In the plan sheets, W-7 (Sta 27+31.66) and SS-16 have been updated so crossings meet TCEQ requirements. In the Price Proposal, III-22 - "8" Pressure Rated SS" has been added.
23	Question: Bid Item II-5 Shows 80 If of 6-inch water main. Plan sheet W-7 Sta. 25+47 and Plan Sheet w-8 Sta. 30+23 Shows additional 6-inch water	The quanity for Bid Item II-5 has been revised to 267 LF. Sheet NOTES-04 has been updated to reflect the revised quantity. The stations where the services are include: 16" WL:	Refer to Price Proposal Item II-5 and Addendum 01 Updated Drawings section, updated Sheet NOTES- 04.
24	Question: Sheet W-10 Sta. 43+20 approximate water line crossing proposed sewer line. Since this is a temporary Connection do we need to install the water line inside of casing?	Casing is not necessary as water is above sewer and the they are seperated by more than 2'.	None.
25	Question: Sanitary Sewer beginning at Sta. 1+00 Connect to existing 48-inch sewer calls for Detail-3 as shown On sheet D-7 is this correct or would we use Detail 6 Type A man-hole?	Detail 6 on Sheet DT-7 has been updated as part of Addendum No.1. Sheet SS-2 has been updated for revised detail reference.	Refer to Updated Drawings in Addendum 01.
26	Question: Plan sheet SS-6 and SS-15 the 18-inch sewer line to be abandoned on these sheets are they connected. If so does the bid item III-14 cover the line?	Yes, they are connected.The quantity for Bid Item III-14 (Wastewater Line Abandonment Grout) covers this with the 158 CY.	Quantity confirmed
27	Question; Plan sheet SS-15 Shows remove and replace sewer man-hole that sits on one 18-inch sewer lines a 8 inch sewer line and a 15 inch sewer line. Can you give us the distance to the next upstream man-hole? For Bypass calculations?	Plan sheet SS-15 has been updated to show distances to upstream manholes and included in Addendum 01.	Sheet updated and reissued with Addendum 01.
28	Question; Plan sheet DT-8-3 Shows an epoxy coated eccentric CMP for the air and vacuum release valve vault. There is no such item can we use a fiberglass man-hole. Also, can we use schedule 80 pvc underground instead of DI. And galvanized pipe above ground? Can the Screen be PVC? The screen shown would have to be special made.	Detail updated per discussion at Pre-Bid Meeting with City of San Angelo and Utility Contractors.	Detail updated and revised Sheet DT-8 included as part of Addendum 01.
29	Question: Will we be able to close portions of Bell Street while installing sanitary sewer line?	No complete street closure is allowed. Partial closure (two lanes at a time, etc) is acceptable.	None.
30	Project Schedule will be extended	Project schedule was extended to 540 days from 365 days.	Refer to Price Proposal and Addendum 01, Item A1- 1 I.







Project: Bell Street Paving, Water, and Wastewater Improvements FNI Project:

SAN16188

Last Updated: <u>8/2/2017</u>

NUM.	QUESTION	RESPONSE	ACTION
31	On the geotechnical engineering study, there is no (tsf) numbers associated with the boring logs. It would be most helpful having that information for each boring log number. Can you provide that information?	Shelby tubes were not obtained during the field investigation; therefore, we do not have those values. It has been the experience of the City of San Angelo that subsurface rock has been previously encountered in surrounding areas. The Contractor shall include the potential cost of rock excavation in the unit costs for the bid items provided in the contract documents. No	Refer to Addendum 01, Item A1-1 F for clarification.
	Plan markup revision received from a vendor by Purchasing	additional compensation will be provided for rock excavation. The designer origially called for larger than the	Refer to Addendum 01 Updated Drawings section.
32	Specialist Candice Baker Indicating the foundation size for 32' long mast arm poles should be changed from type 36-A to 30-A	TxDOT minimum required foundation size for four(4) 32' long single mast arm assemblies. This was done to accommodate longer mast arms if needed in the future. After additional consideration, the City does not wish to bear the additional expense.	Plans have been revised to indicate minimum TxDOT standard foundation size. Four (4) foundations for 32' long mast arm assemblies have been changed from foundation Type 36-A to Type 30-A.
33	Could you provide me with a map of the drill seeding areas for the Phase 1 project?	Map of drill seeding areas sent to Q. Payment planned for stabilization of disturbed areas within the ROW. Areas disturbed by franchise utilities will be the responsibility of the franchise companies and not the contractor.	Specifications have been updated to indicate that drill seeding will be required for all unimproved surfaces located within the ROW, in Addendum 1, Item A1-1 D.

CLARIFIC	ATION PROVIDED BY CITY JULY 24, 2017		
NUM.	QUESTION	RESPONSE	ACTION
34	The City will perform the video-taping and cleaning of the existing and new lines	FNI will update specification to provide clarification.	Specification has been updated in Addendum 1, Item A1-1 H to state that City will perform all CCTV and associated cleaning of the SS main.
35	No complete street closure is allowed. Partial closure is OK	See response to Question 29.	
36	The existing 18-inch sewer line needed to be grouted as part of the abandonment due to potential for collapsing and infiltration of stormwater.	FNI will update specification to provide clarification.	Specification has been updated. Refer to Addendum 01, Item A1-1 B to state that all abandoned lines under pavement, as well as the existing 18-inch sewer line, must be grouted when abandoned.
37	All valves and fire hydrants that are part of the tie-in process (already being dug up) or installation work need to be salvaged. If a valve is just an in-line valve (not accessible) then it can be abandoned in place	FNI will update specification.	Specification has been updated. Referto Addendum 01, Item A1-1 G with requested addition.
38	Permanent pavement repair needs to be done at the joint between Phase 1 and Phase 3.	FNI will update plans.	Sheets SS-8, SS-9 and SS-10 have been updated to call for permanent pavement repair. Refer to Addendum 01, Updated Drawings section.
39	Drill seeding to be done where needed	Specifications have been updated to indicate that drill seeding will be required for all unimproved surfaces located within the ROW, in Addendum 01, Item A1-1 D.	Refer to Addendum 01, Item A1-1 D and A1-4 A.







 Project:
 Bell Street Paving, Water, and Wastewater Improvements
 FNI Project:
 SAN16188

Last Updated: 8/2/2017

QUESTIO	JESTIONS RECEIVED ON JULY 25, 2017						
NUM.	QUESTION	RESPONSE	ACTION				
40	Verify that Quantities for MH have been checked, based on questions from the Pre-Bid meeting.	Quantities were checked and have been verified.	Refer to Price Proposal, Items III-9, III-10, III-11 and III-12 and Addendum 01, Updated Drawings section, Sheet Notes-04 for updated quantities.				
41	Utility contractor believes that the MH at STA 2+28 (SS-6) on SS Line B needs to be an 8' Diameter MH	For a 5-ft Diameter MH the 18-in (SS Line B-1) and the 24-in (SS Line B) would have a 5-in clearance from OD of the two pipes and with a 6- ft MH you would have 11.5-in of clearance from OD of the 24-in and 18-in SS lines.	MH will be upsized to 6-ft diameter. Refer to Price Proposal, Item III-12 and Addendum 01, Updated Drawings section, Sheet Notes-04.				
42	Utility contractor believes that the MH at STA 1+33.62 (SS-15) on SS Line B needs to be an 8' Diameter MH	For a 4-ft Diameter MH the Ex 18-in and the Ex 15-in would have a 8-in clearance from OD of the two pipes and with a 5-ft MH you would have 14.5-in of clearance from OD of the Ex 18- in and 15-in SS lines.	MH will be upsized to 5-ft diameter. Refer to Price Proposal, Item III-10 and Addendum 01, Updated Drawings section, Sheet Notes-04.				
43	Is Trench Check Dam required to go the full trench as shown in the Details	The Trench Check Dam must adhere to the City Standard detail on Sheet DT-1.	None.				
44	Clarify Phase I Abandonment and grouting stopping point for existing 12"SS	There is an existing MH at Koberlin and Bell St that will be a natural stopping point for the PH I grouting and abandonment of the existing SS.	Refer to Addendum 01, Updated Drawings section, Sheet SS-9 updated for additional clarification.				
45	16" and 20" Inserta Valves are not compatible with Asbestos Cement Pipe	An alternative connection plan has been designed. If existing valve is determined to be functional near Sta 1+00, then linestop connection is not necessary.	Refer to Addendum 01, Updated Drawings, Sheets W-2, W-10 and W-11, which have been reissued to show the changes needed for the alternative connection plan.				
46	we would like to purpose on plan sheet SS-2 we begin our by - pass pumping from existing man-hole to the upstream west man- hole. We would then install the new man-hole at sta 1+00 lay up to sta.1+65 Add a 12x12 y to pick up the existing 12inch line after we lay up to about sta .1+65 we would install an additional man-hole test the section and then tie existing 12in. sewer back into new line. This will drastically reduce the cost of continuously running by- pass pumps. Once the whole line is installed we Would come back install plug in 12inch y and concrete this plug in place.	Please see answer to Question 60.	None. The contractor's brief explanation of his approach sounds logical but shall not be evaluated during the advertisement phase. Refer to Addendum 01, Updated Technical Specifications, Specfication 4.29 for requirements.				
47	Can we use pressure tested flat line hose for short runs. This hose will be rated 150 percent of the anticipated head of the pumping system, at locations were we will be picking up smaller than 12 inch diameter lines?	The piping for the bypass must be in accordance with Specification 4.29	None. Refer to Addendum 01, Updated Technical Specifications, Specfication 4.29 for requirements.				
48	On page 104 section 4.29.8 paragraph d is the 7 day monitoring of each smaller pump set-up going to be required as we move up Bell Street and pick up 8 inch and 6 inch lateral lines ? If so this will require countless return trips for the by-pass contractor and an expense We feel is not necessary.	The intent is that the pump set-up be manned for the duration of the by-pass pumping operation or the first 7 days which ever is shorter.	None.				







Project:	Bell Street Paving, Water, and Wastewater Improvements	FNI Project:	SAN16188	Last Updated:	8/2/2017
49	On page 103 section 4.29.8 Paragraph a -2. On main lines less than 12 inch it calls for a primary pump and a back-up pump . Can the backup pump be on site but not hooked to primary pump pumping system?	The Back Up p to the discharg	ump must be physically connected ge header per TCEQ requirements.	None.	
50	On sheet SS-15 we are going to have to install an additional new man-hole on the existing 15 inch line and the existing 18 inch line as well as the man-holes shown on plan sheet. If more than one man-hole is being by-passed and it's within a 100 feet of each Other can the by-pass contractor representative watch both pumping systems for the 7 day period?	The current ali complete syst additrional ma If the Contract with both byp response time person monito	ignment and MH location deliver a em and we do not believe that inholes are necessary. For can maintain visual contact ass pump set ups and meet the then yes, you may have the same bring buth pump set-ups.	None. Refer to Add Specifications, Spe	Jendum 01, Updated Technical cfication 4.29 for requirements.
51	Also, Item II-19 calls out a 8" x 2" Tapping Saddle and valve at station 3+19.89 but before that at station 2+78.01 there is a 8" x 2" Tee reconnect. How is the 8" Saddle possible if we are on a 2" line already. Please clarify.	The Saddle has reconnection t 2" WL in that l	s been changed to a tee for the to the existing Water Meters and ocation.	Sheet W-11 has be Addendum 01.	en updated as part of

QUESTIO	UESTIONS RECEIVED ON JULY 26, 2017							
NUM.	QUESTION	RESPONSE	ACTION					
52	I had mention in a question at the Pre-bid meeting about changing the Type B hot mix depth to 2.5" since the 2" is not thick enough for that mix. Another solution to the problem would be to go with a Type C mix in lieu of the Type B mix. 2" would be fine for a C mix.	See response to Question 14.	The Type B hot mix depth has been changed from 2" to 2.5". Type D hot mix depth has been changed from 2" to 1.5". Refer to Addendum 01, Updated Drawings, Sheet TS-02 for more detail.					
53	Question on detail sheet DT-5 on service lines it shows a pressure reducing valve. Are these really needed ? The 2 inch are fairly expensive.	PRVs are necessary due to the 16-inch water main running about 90 to 100 psi. This was a decision early on in the project in order to protect the services.	None.					

QUESTIONS RECEIVED ON JULY 27, 2017						
NUM.	QUESTION	RESPONSE	ACTION			
54	On the 1-inch water service, please double check carefully and provide the correct numbers. Do we count the 2" line with double 1" service lines as one 1" service or two? Please clarify.	1-inch water service quantity has been verified. 2" line with double 1" service lines is its own bid item.	None.			

QUESTIO	UESTIONS RECEIVED ON JULY 28, 2017						
NUM.	QUESTION	RESPONSE	ACTION				
55	The contractor is required to perform compaction testing as part of his work, right? We need to clearly state that the cost of testing is subsidiary to his earthwork. However, the minimum frequency of testing as pointed out in FNI's write-up would result in a lot of testing by the contractor. We have approximately 4,200 feet of roadway work, 4,200 feet of trench (4 feet deep) for water line, and 6,000 feet of trench (10 to 15 feet deep) for sewer – with testing requirement of once each lift (8 inches) every 200 feet, are we calling for 400 – 500 or more compaction tests?	FNI will update Item #9 in the General Notes in the plan set with Addendum 02 to provide clarification that the cost of testing is subsidary to the Contractor's work. FNI will update the specification with Addendum 02 to clarify and update the testing frequency requirements.	ACTION Refer to Addendum 02 Item A2-1 and Item A2-2 for further detail.				

	PHASE I PRE-BID QUESTIONS RESPONSE LOG			FREESE MICHOLS	Innovative approaches Practical results Outstanding service	
Project:	Bell Street Paving, Water, and Wastewater Improvements	FNI Project:	SAN16188		Last Updated:	8/2/2017
56	On the original bid item for water and sewer there was an item for temporary asphalt repair bid item 11-28 and 111-16. These have been removed from the bid items in addendum one. Question ; Since the new sewer line is being placed in Bell Street , and as the contractor backfills the trench with base material and continues up or down the street and part of the lanes behind are open to traffic , is the asphalt repair supposed to be permanent Or do we due a skin patch and that cost should be included in the sewer bid items?	The previous t pavement bey per City direct permanent. Th patch requirec would be subs	emporary pa ond the Phas ion has all be ne intent is fo as the traffi idiary to the	vement was for the ie I paving limits. This changed to r any temporary c control progresses Sewer Bid Item.	None.	
57	The plans call for Novamesh in the sidewalk. Is this correct? What dosage rate will be required? Normally synthetic fibers are sufficient (TXDOT specifications). This will be a cost savings.	Yes, Novomes CoSA standarc TxDOT specific this particular	h is required I detail S-FF-1 cations are no item.	for the sidewalk. . calls for #36 lbs/CY. ot being utilized for	Refer to Addendu 02) to reflect curr	m 02 for revison to Sheet 51 (DT- ent CoSA standard detail S-FF-1.
58	The driveways are specifying #3 on 18". The standard for the City of San Angelo is #4 on 18" or 36lbs/CY of Novamesh?	the CoSA stand driveways is # Ibs/CY Novovr	dard reinforc 4 bars on 18" nesh.	ement for concrete O.C.E.W. or 23	Refer to Addendu 01) to reflect CoS/ reinforcement to or 23 lbs / CY (mir	m 02 for revison to Sheet 50 (DT- A standard driveway reflect (#4 bars at 18" O.C.E.W. n.))
59	I'm having trouble with East Jordan getting a quote for the 36" Lid required on the 2" Combination Air Release Valve on the Bell St Improvements project. Could you please read the following from them: "I talked with Shelley and we never got approval for a 36" to be set up. I quoted something in that size but it will not have the lettering. If it does need lettering we can set up a new product. I will need to know how may they are needing. Usually there will be a tag fee on these unless they order a quantity of 25. Please let me know if you have any questions."	The Detail will Cast Concrete which is a mor have a tag fee rated.	be updated f manhole and re standard si . The manhol	from HDPE to Pre- d show a 30" lid, ze and should not e will also be traffic	Refer to Addendu DT-8.	m 02, Updated Drawings, Sheet
60	On the response log received from addendum one question number 46. The response states that the request to install a 12 inch sewer y in the new line sounds logical. If we are not allowed to install this sewer (y) it changes the whole dynamics Of how the bypass contractor will view this project. So the bypass contractor is asking for a yes or no answer. Other contractors may have a different approach and that's fine but this is going to be our approach and also how we price out the cost of the bypass system. Once again we need a yes you can install the 12inch (Y) or no you cannot.	Yes, this would 12" Wye is rer project. Leaka removed or pl accordance wi specification n	d be allowed noved or plug ge test shall b ugged. Other ith the By-Pas nay also be u	as long as the 12" x gged at the end of the be done after wye is methods that are in ss Pumping sed.	None.	

TECHNICAL SPECIFICATIONS:

- A2-1 Section 4.1 "General Notes"
 - A. Reference Page 8.

Modification:

4.1.24 The minimum frequency of testing for utility pipeline trench compaction test is as followed.

- Granular embedment max density proctor: Perform test once per source
- Soil proctor: Perform test once every 500 LF of every soil type change
- Pipeline embedment densities: Perform test once each lift every 300 LF
- Above pipe zone density: Perform one test at every 200 feet or at every 300 CY as directed by the City (not by lifts but by length/quantity)

Density and/or compaction testing is required and it is the responsibility of the Contractor. Prior to the pre-construction meeting, the Contractor shall submit the name of the independent testing and laboratory to be used for the City's review and approval. Cost of testing shall be subsidiary to the appropriate bid items. City will perform QA/QC testing at City's own cost and discretion.

DRAWINGS:

- A2-2 Sheet Notes-1 "General Notes"
 - A. Reference Sequence **3**.

Modification:

9. PRIOR TO PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT THE NAME OF THE INDEPENDENT TESTING LABORATORY TO BE USED FOR THE CITY'S REVIEW AND APPROVAL. COST OF TESTING SHALL BE SUBSIDARY TO APPROPRIATE BID ITEMS. ALL MATERIAL TESTING SHALL BE COORDINATED WITH THE PROJECT INSPECTOR. THE PROJECT INSEPECTOR SHALL BE PRESENT DURING ALL TESTS AND SHALL BE GIVEN A MINIMUM OF 24 HOURS ADVANCED NOTICE PRIOR TO ANY TESTING. ANY TEST RESULTS NOT MEETING THE SPECIFICATIONS SHALL REQUIRE ADDITIONAL INSPECTIONS AND TESTS AT NO ADDITIONAL COST TO THE CITY.

REPLACE THE FOLLOWING SHEETS

Replace Sheet	With Sheet
DT-01	DT-01
DT-02	DT-02
DT-8	DT-8

END OF ADDENDUM NO. 2

UPDATED DRAWINGS



Plot

TINITY IN	XPTE OF FEL		WAYNE P. HARTT	3. 118231 E	CA-VCENSED K	SOUNT ET	(NPHPact 8/01/2017
		FREESE		 4055 International Plaza, Suite 200 Fort Worth, Texas 76109-4895 	Phone - (817) 735-7300 Fax - (817) 735-7491	Web - www.freese.com	
	CITY OF SAN ANGELO, IEXAS	PHASE I	BELL STREET ROADWAY AND UTILITIES IMPROVEMENTS	ROADWAY DETAILS		DELL JIKELI	PAVING DETAILS
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1'-0"

4 REBAR

- 4

SEWER MAIN CLEANOUT

NOT TO SCALE JUNE 2016 W-SA-CO

1'-0"

SELECT BACKFILL MATERIAL

3,000 P.S.I. CONCRETE PAD-











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ne:

ACAD Fileno

NOTES:



1. MANHOLE RING (V-1420) & LID (V-1430) SHALL BE EAST JORDAN IRON

WORKS OR APPROVED EQUAL WITH "CITY OF SAN ANGELO" CUSTOM LETTERING.



