

CLAREMORE

ENGINEERING

PROJECT ADDENDUM

Bid / RFP / RFQ Number: SB-2024-33

Project Number: E2023-027

Project Name: Baker Hughes Exit Feeders

Addendum No.: 2

Date of Addendum: September 19, 2024

To All Plan Holders:

Please note the following changes and/or clarifications:

1. **ADDITIONAL PRE-BID CONFERENCE:**

An additional Pre-Bid Conference has been requested. Due to a low number of potential bidders and the changing of the bid date, we are scheduling another Pre-Bid Conference. If you attended the original Pre-Bid Conference, attendance at the second Pre-Bid Conference is optional. To bid on the project, you must attend one of the two Pre-Bid Conferences. The second Pre-Bid Conference will be held WEDNESDAY, SEPTEMBER 25th, 2024, 1:00 P.M. at the Claremore City Hall Council Chambers at 104 S. Muskogee Ave in Claremore, OK.

2. **PLANS:**

Updated plans are attached to this Addendum. Please note the following changes:

- Pay Quantities – A pay quantity was added for 6” HDPE conduit.
- The alignment of the conduit has been revised from the Baker Hughes Substation running south to Stuart Roosa.

- The HDPE conduit for the non-encased Hwy 66 bore has been noted on the plans. Note this is called out as PVC SDR 13.5 HDPE. This is not PVC conduit. It is SDR 13.5 HDPE conduit.
- Bury depths have been updated to 48" min cover.
- A detail has been added for the BNSF Railroad bore.

3. **UPDATED BID SCHEDULE:**

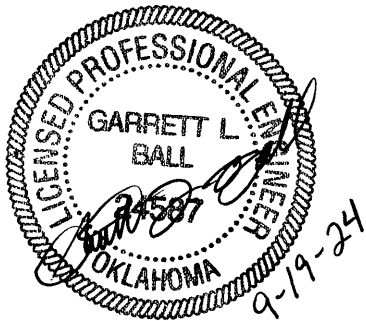
An updated Bid Schedule is attached to this Addendum for use.

4. **RAILROAD BORE TRACK MONITORING:**

We do not anticipate the BNSF Railroad to require real-time track monitoring during the boring operations at this time. Do not include that cost in your bid. In the event that that is required at the time of the bore, we will consider that as an unforeseen condition and will cover the cost of that service/work.

Contractor will still be responsible for insurance, flagging and inspections required by the railroad. This is an incidental cost to be included in the bored 20" steel casing.

All other terms, conditions and specifications remain unchanged. Any additions made to the Bidding and Contract Documents including the Plans and Specifications per this Addendum shall be considered a part of the original Bidding and Contract Documents. The professional seals and signatures applied to the original Bidding and Contract Documents are thereby considered to cover any additions to said documents per this Addendum.



Garrett L. Ball, P.E.
City Engineer

Date

Bidders shall acknowledge receipt of this Addendum in the space provided in the Bid Proposal Form.

NAME OF BIDDER: _____

BAKER HUGHES FEEDER EXITS - BASE BID

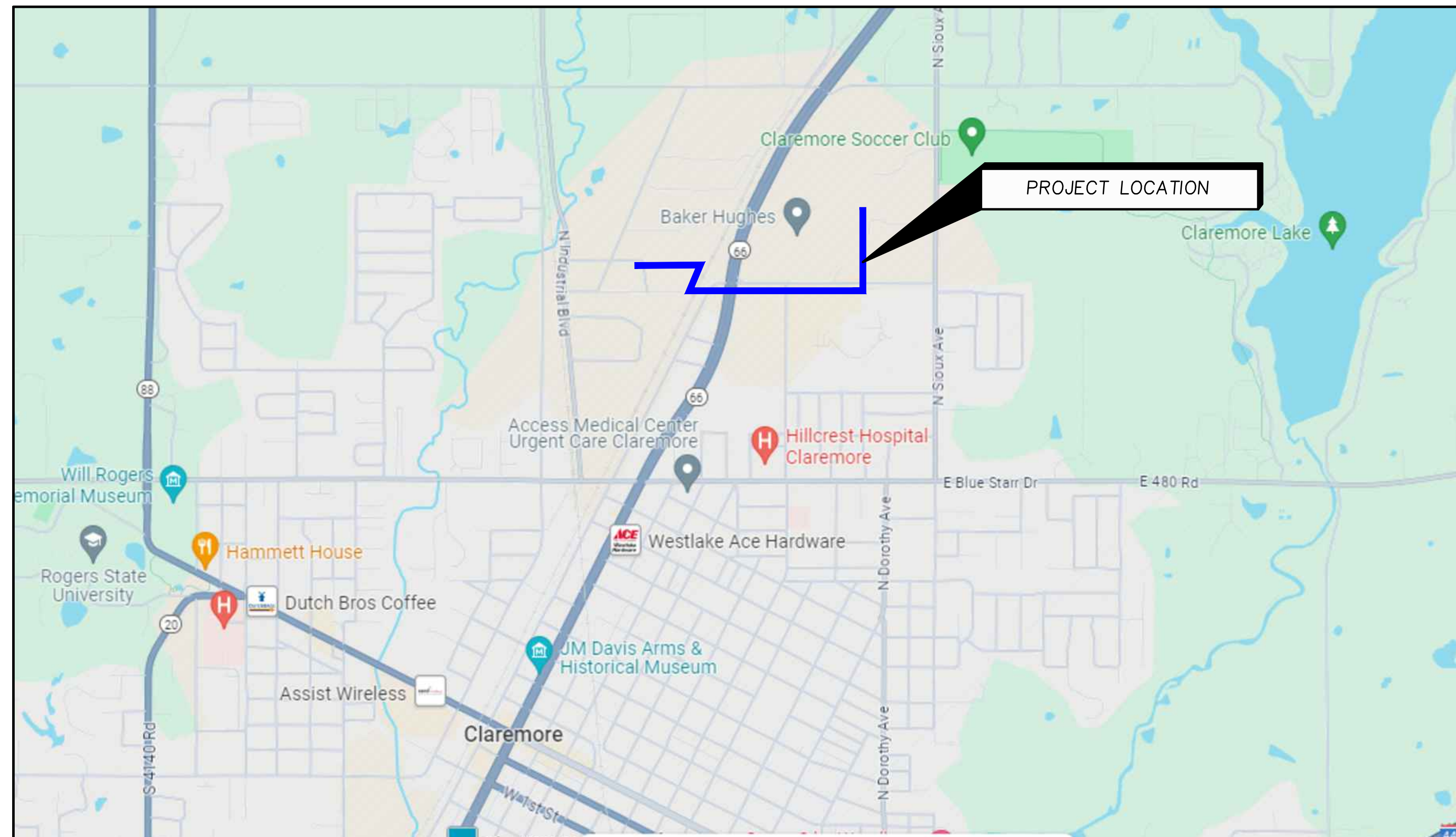
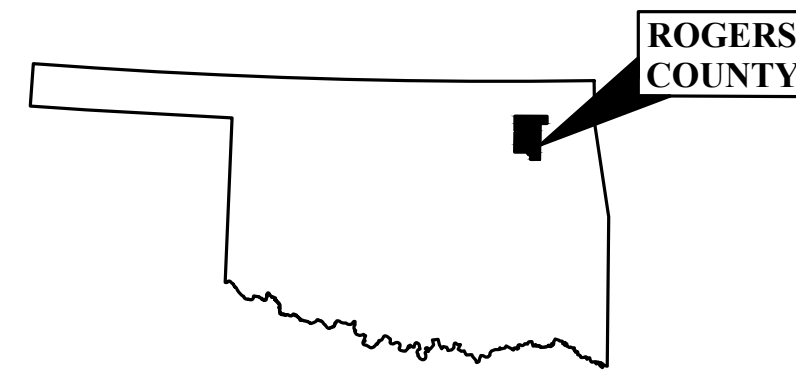
ITEM #	ITEM DESCRIPTION	PAY QUANTITY NOTES	UNIT	ESTIMATED QUANTITY	UNIT PRICE	TOTAL
1	MOBILIZATION/DE-MOBILIZATION	1	LS	1	\$	
2	CONSTRUCTION TRAFFIC CONTROL	2	LS	1	\$	
3	OBSTRUCTION REMOVAL/REPLACEMENT	3	LS	1	\$	
4	6" PVC SCH 40 TYPE II - OPEN CUT	4	LF	3,900	\$	
5	6" PVC SCH 40 HW INTERLOCKING - BORED	5	LF	8,850	\$	
6	6" SDR 13.5 HDPE CONDUIT - BORED	5	LF	1,700	\$	
7	6" 45 ⁰ IMC STEEL ELBOW (UP 7.04.45)	6	EA	20	\$	
8	6" 90 ⁰ IMC STEEL ELBOW (UP 7.04.90)	7	EA	22	\$	
9	20" STEEL ENCASED BORE	8	LF	225	\$	
10	UF. PBC PULL BOX (H2O RATED)	9	EA	8	\$	
11	TOPSOIL/SOLID SLAB SOD	10	SQ. YDS	4,000	\$	
12	PROJECT CONTINGENCY	11	-	-	-	\$ 20,000.00

TOTAL BID (IN NUMBERS): _____ \$

TOTAL BID (IN WORDS): _____

CONSTRUCTION PLANS FOR BAKER HUGHES FEEDER EXITS CLAREMORE, OKLAHOMA

ADDENDUM #2 REVISED 9-19-24



VICINITY MAP
NO SCALE

PROJECT CONTACTS

1. GARRETT L. BALL, P.E.
CITY ENGINEER
724 RAMM ROAD, CLAREMORE, OK 74017
(918) 341-0457 EXT. 209
2. LEVI HIX, P.E.
PROJECT MANAGER
724 RAMM ROAD, CLAREMORE, OK 74017
(918) 341-0457 EXT. 217
3. TERRY LEGATES
GENERAL FOREMAN (WATER & SEWER)
720 RAMM ROAD, CLAREMORE, OK 74017
(918) 341-0457 EXT. 287
4. ANTHONY SMITH
GENERAL FOREMAN (STREET)
720 RAMM ROAD, CLAREMORE, OK 74017
918-341-0457 EXT. 281

CONTRACTOR SAFETY NOTICE

THE CONTRACTOR IS SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. ADDITIONAL SAFETY DEVICES SHALL BE PROVIDED BY THE CONTRACTOR AS NEEDED WHETHER OR NOT SHOWN HEREIN.

IN THE COURSE OF PROJECT INSPECTION, THE CITY OF CLAREMORE SHALL NOT BE RESPONSIBLE FOR THE OVERSIGHT OR DIRECTION OF SAFETY MEASURES IN, OR NEAR THE JOBSITE.

CONTRACTOR UTILITY NOTICE

THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF THE EXISTENCE AND FIELD LOCATION OF ALL EXISTING UTILITIES IN THE WORK AREA. CONTRACTOR SHALL GIVE ADEQUATE NOTICE IN ACCORDANCE WITH STATE LAW TO ALL UTILITIES PRIOR TO BEGINNING WORK ACTIVITIES. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO FIND AND PROTECT EXISTING UTILITIES DURING THE COURSE OF THE WORK. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR.

THE CITY OF CLAREMORE HAS SEARCHED AVAILABLE RECORDS AND REQUESTED SURVEY LOCATES TO DETERMINE THE LOCATION OF EXISTING FACILITIES SHOWN IN THESE PLANS. THE CITY OF CLAREMORE SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE ASSOCIATED WITH THE EXISTING UTILITIES.



FOR CONSTRUCTION		Revisions
1	▲	
2	▲	
3	▲	

COVER SHEET

Drawn by B.Welden
Checked by G. BALL
Date AUGUST 2024
Project Number E2023-027
Sheet 1



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- 2 SHEET INDEX, SPECS AND NOTES
- 3 PAY QUANTITIES & QUANTITY NOTES
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- 6 CEC – SH02: STRUCTURAL INSTALLATION
- 7 CEC – SH03: STRUCTURAL INSTALLATION
- 8 CEC – SH04: STRUCTURAL INSTALLATION
- 9 CEC – SH05: STRUCTURAL INSTALLATION
- 10 CEC – SH06: STRUCTURAL INSTALLATION
- 11 CEC – SH07: STRUCTURAL INSTALLATION
- 12 CEC – SH08: TRENCH PROFILE
- 13 CEC – SH09: ONE LINE DIAGRAM
- 14 CEC – SH10: TRENCH AND BORE OVERVIEW

GENERAL MATERIAL SPECIFICATIONS:

1. PVC ELECTRICAL CONDUIT – MEET ALL REQUIREMENTS OF UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITY SERVICES RUS BULLETIN 1728F-806 WITH AN EFFECTIVE DATE OF OCTOBER 11TH, 2018. MINIMUM REQUIREMENTS ARE:

PIPE: SCH40 PVC GLUE-JOINT TYPE PIPE SHALL MEET THE MOST CURRENT REQUIREMENTS OF UL 651, NEMA TC-2, AND ASTM F-512. COLOR SHALL BE GRAY. PROVIDE 20' LAYING LENGTHS. MATERIAL SHALL BE MANUFACTURED IN THE USA BY CANTEX OR AN APPROVED EQUAL.

FITTINGS: PVC SLP (SCHEDULE 40) AND THREADED (SCHEDULE 40) FITTINGS SHALL MEET THE MOST CURRENT REQUIREMENTS OF UL 651, NEMA TC-3, AND ASTM F-512. COLOR SHALL BE GRAY. PROVIDE SCHEDULE 40 FOR ALL THREADED FITTINGS. ALL FITTING SOCKETS SHALL BE FULL-LENGTH. MATERIAL SHALL BE MANUFACTURED IN THE USA.

ALL SLP PIPE OR FITTING CONNECTIONS SHALL BE SOLVENT WELDED WITH APPROPRIATE RATED PRIMER AND GLUE.
2. STEEL ELBOWS:

RIGID STEEL ELBOWS WITH 48" MIN RADIUS MEETING UL 6 AND NEMA ANSI C80.1 AS MANUFACTURED BY CONDUIT PIPE PRODUCTS, CO OR AN APPROVED EQUAL
3. PULL BOXES:

48" X 96" X 48" PRECAST CONCRETE PULL BOX WITH CONCRETE H20 RATED LID AS MANUFACTURED BY OLDCASTLE INFRASTRUCTURE OR AN APPROVED EQUAL.
4. CASING PIPE:

PROVIDE SOLID STEEL PIPE MEETING ASTM A252. MATERIAL SHALL BE SIZE AND WALL THICKNESS PER THE PLANS. MATERIAL SHALL BE PROVIDED IN 20' LENGTHS WITH BUTT WELDED JOINTS.
5. SOLID SLAB SOD:

SOD PROVIDED SHALL BE FRESH CUT SOLID SLAB BERMUDA, WHERE REQUIRED.

SUBMITTALS REQUIRED:

- THE CONTRACTOR SHALL PROVIDE THE FOLLOWING SUBMITTALS PRIOR TO BEGINNING WORK:
- A. PRECAST CONCRETE PULL BOXES
 - B. PVC PIPE
 - C. STEEL CASING
 - D. STEEL ELBOWS
 - E. SCHEDULE OF WORK
 - F. TRAFFIC CONTROL PLAN

GENERAL SPECIFICATIONS AND NOTES:

1. THIS PROJECT WILL REQUIRE WORKING IN EXTREMELY TIGHT AREAS IN CLOSE PROXIMITY TO EXISTING UTILITIES AND OTHER FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES. ANY DAMAGE TO EXISTING UTILITIES OR OTHER FACILITIES SHALL BE PAID FOR BY THE CONTRACTOR.
2. PRIOR TO BIDDING THE PROJECT, THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EFFECT THAT EXISTING SITE CONDITIONS WILL HAVE ON THE WORK COVERED UNDER THIS CONTRACT. FAILURE TO DETERMINE EXISTING CONDITIONS WILL NOT BE A BASIS FOR GRANTING ADDITIONAL COMPENSATION.
3. THE INFORMATION AND DATA SHOWN OR INDICATED IN THE DRAWINGS WITH RESPECT TO EXISTING UNDERGROUND FACILITIES IS BASED ON INFORMATION GATHERED AT THE SITE AND HISTORICAL DATA PROVIDED TO OR COLLECTED BY THE ENGINEER. THE COMPLETENESS OF OF THIS INFORMATION SHALL NOT BE CONSIDERED INCLUSIVE OF THE ACTUAL SITE CONDITIONS. THE CONTRACTOR IS HEREBY GIVEN NOTICE THAT ADDITIONAL UNDERGROUND FACILITIES MAY EXIST AND COULD IMPACT CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING BURIED FACILITIES AND SHALL BE HELD RESPONSIBLE FOR ANY DAMAGES TO EXISTING UTILITIES.
4. THE CONTRACTOR SHALL DISPOSE OF ALL WASTE MATERIALS IN ACCORDANCE WITH CURRENT LAWS AND REGULATIONS AT HIS EXPENSE.
5. THE CITY OF CLAREMORE SHALL PAY FOR ALL WATER NEEDED DURING CONSTRUCTION. CONTRACTOR SHALL OBTAIN A CONSTRUCTION METER FROM PUBLIC WORKS WITHOUT CHARGE OR DEPOSIT. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING MONTHLY METER READINGS AND RETURNING THE METER UPON COMPLETION OF CONSTRUCTION. CONTRACTOR SHALL RETURN CONSTRUCTION METER BEFORE FINAL RETAINAGE IS RELEASED. CONTRACTOR SHALL REPAIR OR REPLACE THE METER IF DAMAGED OR LOST.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING A LAYDOWN/STORAGE AREA FOR EQUIPMENT AND MATERIAL. ANY COST ASSOCIATED WITH THE LAYDOWN/STORAGE AREA SHALL BE PAID BY THE CONTRACTOR.
7. CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF CLAREMORE STANDARDS AND UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITY SERVICES RUS BULLETIN 1728F-806 WITH AN EFFECTIVE DATE OF OCTOBER 11TH, 2018.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING PROPERTY ACCESS AND SERVICE DISRUPTIONS WITH PROPERTY OWNERS. ANY ACCESS DISRUPTIONS TO A BUSINESS SHALL REQUIRE 24 HOUR ADVANCE NOTICE AND MAY REQUIRE WORK TO BE CONDUCTED AFTER NORMAL BUSINESS HOURS.
9. THIS PROJECT WILL REQUIRE TRAFFIC CONTROL AND SAFETY PROCEDURES. CONTRACTOR SHALL PROVIDE TEMPORARY TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE MUTCD WHEN WORKING WITHIN PUBLIC STREET RIGHT-OF-WAYS. CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN FOR APPROVAL PRIOR TO BEGINNING WORK. TO MINIMIZE TRAFFIC IMPACTS, SOME OF THIS WORK MAY HAVE TO BE CONDUCTED AFTER NORMAL WORKING HOURS AND ON WEEKENDS.
10. PRIOR TO CLOSING ANY STREET THE CONTRACTOR SHALL NOTIFY THE OWNER 48 HOURS IN ADVANCE.
11. OWNER WILL PROVIDE BENCHMARKS AND AUTOCAD FILES NEEDED TO LAY OUT THE WORK. ADDITIONALLY, OWNER'S CONSULTANT WILL PROVIDE CONSTRUCTION STAKING (ONE TIME) FOR PRIMARY CONDUIT INSTALLATION AND LOCATIONS OF PULL BOXES. ADDITIONAL STAKING NEEDED FOR LAYING OUT THE WORK WILL BE THE CONTRACTOR'S RESPONSIBILITY.
12. MATERIALS PURCHASED FOR THIS PROJECT ARE EXEMPT FROM SALES TAX. THE CITY OF CLAREMORE SHALL PROVIDE THE SUCCESSFUL BIDDER WITH DOCUMENTATION TO PROVE THE EXEMPTION.
13. QUANTITIES LISTED ARE APPROXIMATE. THE CONTRACTOR SHALL BE PAID FOR MATERIALS INSTALLED ONLY. MATERIALS THAT ARE NOT USED WILL REMAIN THE PROPERTY OF THE CONTRACTOR'S PROPERTY. UNUSED MATERIALS CAN BE RETURNED AT THE CONTRACTOR'S EXPENSE.
14. ALL SITE SAFETY FEATURES SHALL BE CONTINUOUSLY MAINTAINED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF THE SITE AT ALL TIMES.
15. ALL EXCAVATIONS SHALL BE CLOSED AT THE END OF EACH DAY. EXCAVATIONS THAT CANNOT BE CLOSED SHALL BE COVERED OR BARRICADED AND PROPER SIGNAGE SHALL BE APPLIED TO THE AREA.
16. CONTRACTOR SHALL MOVE MOBILE EQUIPMENT TO A DESIGNATED STORAGE AREA AT THE END OF EACH WORK DAY. LOW MOBILITY EQUIPMENT, SUCH AS EXCAVATORS, MAY BE LEFT IN THE CONSTRUCTION ZONE. HOWEVER, THIS EQUIPMENT SHALL BE STORED IN A MANNER THAT WILL NOT GREATLY IMPACT TRAFFIC FLOW AND VISIBILITY OR RESTRICT DRIVEWAY ACCESS.
17. CONTRACTOR SHALL PROVIDE SANITARY FACILITIES FOR WORKERS AND ADEQUATE REFUSE CONTAINERS THROUGHOUT THE DURATION OF THE PROJECT. COSTS SHALL BE INCLUDED IN MOBILIZATION/DE-MOBILIZATION PAY ITEM.
18. ALL CONSTRUCTION SHALL BE INSPECTED BY THE CITY OF CLAREMORE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING INSPECTIONS PRIOR TO BACKFILLING BELOW GRADE FACILITIES OR PLACING ANY SURFACING MATERIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING INSPECTIONS PRIOR TO BACKFILLING BELOW GRADE FACILITIES.
19. THE CONTRACTOR SHALL PROVIDE ALL PIPE, STEEL ELBOWS, CONCRETE VAULTS, TRACER TAPE, STEEL CASING, PIPE SPACERS, CASING SPACERS, END SEALS, BEDDING AND BACKFILL MATERIALS NEEDED TO COMPLETE THE WORK.
20. ALL CABLES, CONDUCTORS, ABOVE GROUND CABINETS AND SWITCHES SHALL BE PROVIDED AND INSTALLED BY THE OWNER. DE-ENERGIZING, TERMINATING AND ENERGIZING THE PRIMARY WILL BE THE RESPONSIBILITY OF THE CITY OF CLAREMORE ELECTRIC DEPARTMENT.
21. THE USE OF HDD WILL BE REQUIRED FOR SOME OF THIS WORK. POT HOLING OF ALL EXISTING UTILITIES IN THE BORE PATH IS REQUIRED. A BORING LOG OF DEPTHS ALONG LINE SEGMENTS AT 50' INTERVALS SHALL BE PROVIDED BY THE CONTRACTOR.
22. CONTRACTOR SHALL MAKE EVERY EFFORT POSSIBLE TO RESTORE FENCES AND OTHER PROPERTY WHERE DISTURBANCE CANNOT BE AVOIDED. ALL PROPERTY SHALL BE REPAIRED OR REPLACED WITH LIKE KIND AND CONDITION MATERIALS. ALL GROUND DISTURBANCE SHALL BE REPAIRED WITH SOD.

GENERAL SCOPE OF WORK:

1. THE PURPOSE OF THIS PROJECT IS TO INSTALL NEW PRIMARY ELECTRIC CONDUITS AND PULL BOXES BETWEEN THE BAKER HUGHES ELECTRIC SUBSTATION AND THE BAKER HUGHES CABLE PLANT ON THE WEST SIDE OF HWY 66.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING IN 811 LOCATES IN ALL AREAS WHERE DIGGING WILL OCCUR. POT HOLING, EXCAVATING, SHORING AND BRACING OF EXISTING UTILITIES SHALL BE INCIDENTAL TO EXCAVATION FOR ALL PHASES OF WORK.
3. WHERE SAFE EXCAVATION OR BORING CANNOT OCCUR DUE TO PROXIMITY OF OTHER UTILITIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING DE-ENERGIZING OR SHUTTING DOWN OTHER UTILITIES WITH THE RESPECTIVE OWNER.
4. THE CONTRACTOR SHALL PROVIDE AND INSTALL CONDUITS AND PULL BOXES AS SHOWN.
5. THE OWNER WILL INSTALL ALL ABOVE GRADE SWITCHES, CABINETS AND CONDUCTORS (WIRE).
6. HORIZONTAL DIRECTIONAL DRILLING (HDD) IS REQUIRED FOR SOME OF THE WORK.
7. CONTRACTOR SHALL REMOVE ALL FENCES, LANDSCAPING AND OTHER OBSTACLES AS NEEDED FROM WORK AREAS. STORE ALL REMOVED ITEMS TO PREVENT DAMAGE. UPON COMPLETION OF WORK, REPLACED/RESTORE ALL AREAS WITH SALVAGED MATERIALS OR PROVIDE LIKE KIND MATERIALS AS NEEDED.
8. WHERE PROPERTY OWNERS HAVE ANIMALS, PROVIDE TEMPORARY SETBACK FENCES AS NEEDED FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
9. TERMINATE ALL CONDUITS AS INDICATED ON THE PLANS. PROVIDE TEMPORARY CAPS AS NEEDED TO KEEP CONDUITS CLEAN.

CONSTRUCTION NOTES:

1. THESE PLANS ARE FOR THE INSTALLATION OF ELECTRIC CONDUIT ONLY, ALONG WITH ALL FITTINGS AND APPURTENANCES COMMONLY USED, WHETHER OR NOT SHOWN OR USED HEREIN.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES, FACILITIES AND NEIGHBORING PROPERTY. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY TRAFFIC CONTROL PERSONNEL AND EQUIPMENT IN ACCORDANCE WITH O.D.O.T. REQUIREMENTS.
4. ALL WASTE MATERIALS THAT CANNOT BE UTILIZED AS SELECT BACKFILL SHALL BE DISPOSED OF AT CONTRACTOR'S EXPENSE, IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. COORDINATE WITH OWNER.
5. THE CITY OF CLAREMORE SHALL INSPECT CONSTRUCTION OF ELECTRIC UTILITIES.
6. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAFETY AT THE SITE AT ALL TIMES DURING CONSTRUCTION.
7. ALL DISTURBED AREAS SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITIONS. PROVIDE TOPSOIL/SOD IN MOWED YARDS AND TOPSOIL/SEED IN PASTURES.
8. DO NOT EXCEED PIPE MANUFACTURER'S DEFLECTION REQUIREMENTS. ADDITIONAL EXCAVATION MAY BE REQUIRED TO ALTER THE ALIGNMENT.
9. OWNER SHALL PREPARE AND ACQUIRE EASEMENTS AND PERMITS FOR ALL NEW LINES TO BE INSTALLED.

SITE PREPARATION AND FINAL CLEANUP:

1. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED, MATERIALS STAGED, PROPER SIGNAGE IN PLACE AND EQUIPMENT MOBILIZED. SAWCUT ALL PAVEMENTS, CURBS AND SIDEWALKS BEFORE REMOVAL.
2. CLEARING AND GRUBBING – BEFORE BEGINNING EXCAVATION AT THE SITE, REMOVE ALL TREES, BRUSH AND TRASH THAT CONFLICT WITH INSTALLATION OF THE ELECTRICAL CONDUIT. SAWCUT ALL PAVEMENTS, CURBS AND SIDEWALKS BEFORE REMOVAL.
3. LOCATE, PROTECT AND RELOCATE ALL UTILITY SERVICES AND METERS, MAILBOXES, SIGNS OR OTHER OBSTACLES THAT WILL INTERFERE WITH WORK. PROVIDE TEMPORARY FACILITIES AND EQUIPMENT AS NEEDED TO MAINTAIN SERVICES TO RESIDENTS. IN THE EVENT THAT TEMPORARY POWER IS REQUIRED TO A RESIDENCE, COORDINATE WITH CLAREMORE ELECTRIC. COORDINATE ALL POTENTIAL SERVICE DISRUPTIONS WITH THE PROJECT INSPECTOR.
4. PROVIDE TEMPORARY SEDIMENT CONTROLS CONSISTING OF GRAVEL FILTER BAGS AND SILT FENCE TO MINIMIZE MIGRATION OF SILT FROM THE WORK SITE AND/OR ENTRANCE INTO THE STORM DRAIN. THESE CONTROL WILL HAVE TO BE MAINTAINED CONTINUOUSLY AND RELOCATED AS CONSTRUCTION PROGRESSES.
5. ALL TRACK OUT FROM THE SITE SHALL BE REMOVED AT THE END OF EACH WORK DAY. ALL DEBRIS AND STAINING SHALL BE CLEANED AND WASHED OFF OF ALL CURBS, DRIVEWAYS, SIDEWALKS AND ROADWAYS PRIOR TO FINAL COMPLETION.
6. SPOIL MATERIALS SHALL NOT BE STORED ON THE ROADWAY OR IN RESIDENTIAL YARDS.
7. FINAL CLEANUP – UPON COMPLETION OF ALL WORK, ASSURE THAT ALL DITCH LINES ARE TIGHTLY COMPACTED TO PREVENT FUTURE SETTLING, GRADE THE EXCAVATED AREAS SMOOTH TO PREVENT STANDING WATER, REMOVE ALL SURFACE ROCK GREATER THAN 1" IN DIAMETER AND APPLY SOLID SLAB SOD. ASSURE THAT ALL DISTURBED SURFACES ARE PROTECTED FROM EROSION. REMOVE ANY DIRT TRACKED ONTO STREETS OR OTHER SURFACES AND REPAIR ALL PRE-EXISTING SURFACES. ASSURE ALL MAILBOXES AND STREET SIGNS REINSTALLED AND ALL SURFACES ARE CLEAN.

EXECUTION OF WORK:

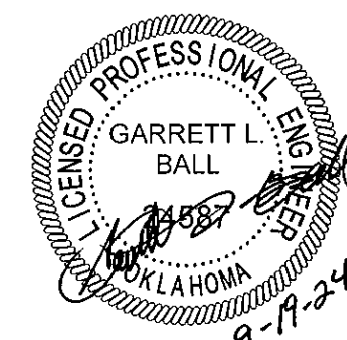
1. CONTINUOUSLY MAINTAIN SAFETY DEVICES. MAINTAIN A NEAT AND CLEAN WORK AREA AT ALL TIMES.
2. SAWCUT ALL PAVEMENT BEFORE REMOVAL AND DISPOSE OF IN A MANNER APPROVED BY THE ENGINEER.
3. LOCATE AND PROTECT EXISTING UTILITIES AND UTILITY SERVICES AS NEEDED TO COMPLETE THE WORK AND MAINTAIN UNINTERRUPTED SERVICE. COORDINATE WITH INSPECTOR AND UTILITY OWNERS AS REQUIRED.
4. TRENCHING SAFETY – WORK IN TRENCHES BELOW GRADE IS CONSIDERED EXTREMELY DANGEROUS. THE CONTRACTOR SHALL REFER TO CURRENT WORKPLACE SAFETY REGULATIONS CONTAINED IN THE FEDERAL REGISTER. THESE REGULATIONS SHALL BE FOLLOWED AT ALL TIMES WHEN PERSONNEL ARE WORKING IN OR AROUND OPEN TRENCHES.
5. TRENCHES – TRENCHES SHALL BE EXCAVATED USING CONVENTIONAL EQUIPMENT AS NECESSARY. ALL TRENCHES SHALL CONFORM TO THE CONSTRUCTION DETAILS IN THE DRAWINGS. DITCH WIDTHS SHALL BE NO GREATER THAN IS REQUIRED TO INSTALL THE PIPE AND FITTINGS AND PROVIDE ADEQUATE BEDDING.
6. VERTICAL AND HORIZONTAL CURVES IN TRENCHES SHALL BE AVOIDED IF POSSIBLE. THEY SHALL BE SMOOTH AND SHALL NOT EXCEED THE PIPE MANUFACTURER'S SPECIFICATIONS FOR CURVATURE WHERE REQUIRED.
7. APPURTENANCES – INSTALL ALL APPURTENANCES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ALL ELBOWS AND OTHER FITTINGS SHALL BE INSTALLED PLUMB AND LEVEL AND AT THE APPROPRIATE TORQUE SPECIFICATIONS (IF APPLICABLE).
8. ALL BACKFILL IN TRENCHES AND BELOW PAVEMENT OR PROPOSED ROADWAY SHALL BE COMPACTED IN 8" MAXIMUM FLAT LIFTS. CONTRACTOR SHALL PROVIDE AND UTILIZE VIBRATORY PLATE COMPACTORS (OR APPROVED EQUAL) FOR CONSOLIDATING AND COMPACTING PIPE BEDDING AND AGGREGATE BASES. A MECHANICAL TAMP (JUMPING JACK) SHALL BE UTILIZED TO COMPACT ALL COHESIVE SOILS. COMPACTION SHALL BE TO 95% OF STANDARD PROCTOR DENSITY. TESTING OF SUBGRADE WILL NOT BE REQUIRED UNLESS QUESTIONABLE MATERIAL OR COMPACTION IS SUSPECTED.

Time: 1:00 pm
 Scale: 1"=1 (PS)
 Date: 8/28/2024 Xrefs Used: E2023-027ENG-22X36 TITLE BLOCK
 Drawing Name: rvc-oh-file1\planning\Engineering\Engineering Department Projects\E2023-027\ENG\DWG\E2023-027ENG NOTES.dwg (gball)
 © 2024 by City of Claremore



724 Ramm Road, Claremore, Oklahoma 74017
918-341-0457 Fax: 918-341-6147 www.claremore.com

BAKER HUGHES
FEEDER EXITS
FOR
CLAREMORE PWA
CLAREMORE, OK



Revisions	
1	
2	
3	

SHEET INDEX, SPECS AND NOTES

Drawn by B.Welden

Checked by G. BALL

Date AUGUST 2024

Project Number E2023-027

Sheet

2



BASE BID

ITEM #	ITEM DESCRIPTION	PAY QUANTITY NOTE	UNITS	ESTIMATED QUANTITY
1	MOBILIZATION/DE-MOBILIZATION	1	LS	1
2	CONSTRUCTION TRAFFIC CONTROL	2	LS	1
3	OBSTRUCTION REMOVAL/REPLACEMENT	3	LS	1
4	6" PVC SCH 40 TYPE II - OPEN CUT	4	LF	2,900
5	6" PVC SCH 40 HW INTERLOCKING - BORED	5	LF	7,000
6	6" SDR 13.5 HDPE CONDUIT - BORED	5	LF	1,700
7	6" 45' IMC STEEL ELBOW (UP 7.04.45)	6	EA	13
8	6" 90' IMC STEEL ELBOW (UP 7.04.90)	7	EA	18
9	20" STEEL ENCASED BORE	8	LF	225
10	UF. PBC PULL BOX (H2O RATED)	9	EA	8
11	TOP SOIL/SOLID SLAB SOD	10	SQ. YDS	4,000
12	PROJECT CONTINGENCY	11	---	---



PAY QUANTITY NOTES:

- MOBILIZATION/DE-MOBILIZATION:**
MOBILIZATION/DE-MOBILIZATION SHALL INCLUDE THE COST OF MOBILIZING EQUIPMENT, MATERIAL AND MANPOWER TO THE JOBSITE AND DEMOBILIZING UPON COMPLETION OF WORK. THIS ITEM SHALL ALSO INCLUDE THE CONTRACTOR'S COSTS FOR INSURANCE, BONDING, OVERHEAD AND PROFIT, CONSTRUCTION LAYOUT, SEDIMENTATION/SILT/EROSION CONTROL, SWEEPING/CLEANING, SECURING/MAINTAINING/RESTORING A LAYDOWN/STORAGE YARD AND PUBLIC NOTIFICATION OF WORK. 75% OF THIS LINE ITEM SHALL BE PAID WITH THE FIRST REGULARLY SCHEDULED PAYMENT IF MOBILIZATION HAS OCCURRED. THE REMAINING 25% SHALL BE RETAINED AND PAID UPON SUBSTANTIAL COMPLETION OF ALL WORK. ONE TIME CONSTRUCTION STAKING WILL BE PROVIDED BY THE OWNER. (REFER TO SPECIAL PAY NOTES)
- CONSTRUCTION TRAFFIC CONTROL:**
PRICE BID SHALL INCLUDE ALL EQUIPMENT, MATERIAL, AND MANPOWER NECESSARY FOR THE CONTRACTOR TO IMPLEMENT ALL TEMPORARY TRAFFIC CONTROL MEASURES. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE OKLAHOMA DEPARTMENT OF TRANSPORTATION (ODOT) AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) GUIDELINES. ANY ADDITIONAL TRAFFIC CONTROL REQUIRED BY THE VARYING SITE CONDITIONS TO ALLOW FOR THE SAFE EXECUTION OF THE WORK SHALL BE INCLUDED IN THIS PAY ITEM. CONTRACTOR SHALL PROVIDE THE CITY TRAFFIC CONTROL PLAN(S) FOR ALL PHASES OF WORK.
- OBSTRUCTION REMOVAL/REPLACEMENT:**
PRICE BID SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO REMOVE AND REPLACE ALL FACILITIES, EQUIPMENT AND OTHER OBSTRUCTIONS IN CONFLICT WITH THE WORK THAT ARE NECESSARY TO ALLOW FOR ACCESS TO WORK AREAS. THIS SHALL INCLUDE BUT NOT BE LIMITED TO FENCES, LANDSCAPING, PLANTS, TREES, SHRUBS, STORAGE BUILDINGS, UTILITY SERVICES/PEDESTALS/METERS, STREET SIGNS AND MAILBOXES. STORAGE OF SALVAGED MATERIALS SHALL BE INCLUDED IN THIS COST. WHERE SALVAGED MATERIALS ARE NOT USEABLE, LIKE-KIND MATERIAL SHALL BE PROVIDED BY THE CONTRACTOR. ANY INCIDENTAL CONCRETE REMOVAL REQUIRED SHALL BE INCLUDED IN THIS COST. REPLACEMENT OF ANY CONCRETE SHALL BE INCLUDED IN OTHER ITEMS OF WORK.
- 6" PVC SCH 40 TYPE II - OPEN CUT:**
PRICE BID SHALL INCLUDE ALL COSTS TO PROVIDE AND INSTALL THE PVC CONDUIT AND COUPLINGS. COST SHALL INCLUDE ALL MATERIALS, TRENCH EXCAVATION, PLACEMENT/ASSEMBLY, BEDDING, BACKFILL/COMPACTION AND DISPOSAL OF SPOILS. INCIDENTAL ITEMS TO BE INCLUDED IN THE ITEM INCLUDES, BUT IS NOT LIMITED TO: SPACERS, SPACER BASES, SAND AND TRACER TAPE. TOPSOIL/SOD FOR FINAL SURFACE TREATMENT OF SELECT AREAS WILL BE INCLUDED IN OTHER PAY ITEMS.
- 6" BORED CONDUIT:**
PRICE BID SHALL INCLUDE ALL COSTS TO PROVIDE AND INSTALL THE INTERLOCKING PVC CONDUIT OR BUTT FUSE WELDED HDPE CONDUIT AS SHOWN ON THE PLANS. THIS CONDUIT SHALL BE INSTALLED BY BORING. COST SHALL INCLUDE ALL MATERIALS, BORE/RECEIVING PIT EXCAVATION AND PLACEMENT/ASSEMBLY.
- 6" 45' IMC STEEL ELBOW (UP 7.04.45):**
PRICE BID SHALL INCLUDE ALL COSTS TO PROVIDE AND INSTALL THE STEEL ELBOW. COST SHALL INCLUDE AL MATERIALS, EXCAVATION, INCIDENTAL ADAPTER FITTINGS, PLACEMENT/ASSEMBLY, CONCRETE ENCASEMENT AND BACKFILL/COMPACTION.
- 6" 90' IMC STEEL ELBOW (UP 7.04.45):**
PRICE BID SHALL INCLUDE ALL COSTS TO PROVIDE AND INSTALL THE STEEL ELBOW. COST SHALL INCLUDE AL MATERIALS, EXCAVATION, INCIDENTAL ADAPTER FITTINGS, PLACEMENT/ASSEMBLY, CONCRETE ENCASEMENT AND BACKFILL/COMPACTION.
- 20" STEEL ENCASED BORE:**
PRICE BID SHALL INCLUDE ALL COST TO PROVIDE AND INSTALL (BY BORING) THE 20" STEEL CASING ACROSS THE BNSF RAILROAD RIGHT-OF-WAY. PERMITTING OF THIS BORE IS IN PROGRESS. THE UTILITY AGREEMENT WITH THE RAILROAD WILL BE PROVIDED AS SOON AS POSSIBLE. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY LIABILITY INSURANCE, FLAGGING, INSPECTION, ETC. AS REQUIRED BY THE RAILROAD. THOSE COSTS ARE CONSIDERED INCIDENTAL TO THIS LINE ITEM. ADDITIONAL INCIDENTAL ITEMS INCLUDED WITH THIS PAY ITEM ARE CASING SPACERS, CASING END SEALS AND BORE/RECEIVING PITS. COST OF THE CONDUIT THROUGH THE CASING PIPE SHALL NOT BE INCLUDED IN THIS PAY ITEM. ROCK BORING/ROCK EXCAVATION MAY BE ENCOUNTERED AND SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM.
- UF. PBC PULL BOX (H2O RATED):**
PRICE BID SHALL INCLUDE ALL COST TO PROVIDE AND INSTALL THE TRAFFIC RATED UNDERGROUND CONCRETE PRIMARY PULL BOX. COST SHALL INCLUDE, BUT NOT BE LIMITED TO EXCAVATION, PLACEMENT AND BEDDING/BACKFILL/COMPACTION AND DISPOSAL OF SPOILS.
- TOP SOIL/SOLID SLAB SOD:**
PRICE BID SHALL INCLUDE SALVAGE/STOCKPILE OF EXISTING TOPSOIL, REAPPLICATION OF TOPSOIL AROUND CURB, DRIVEWAYS, SHOULDERS, DITCHES, OR OTHER AREAS WHERE DISTURBED. PROVIDE A SMOOTH SURFACE BY ROLLING OR HAND TAMPING TOPSOIL AND APPLICATION OF SOD AS SHOWN IN THE PLANS. PAYMENT WILL BE BASED ON THE PROVIDED QUANTITY OF SOD. PRICE BID SHALL INCLUDE WATERING SOD TWO TIMES PER WEEK FOR 4 WEEKS. CITY SHALL SUPPLY WATER NECESSARY FOR WATERING. SOD PROVIDED SHALL BE FRESH CUT BERMUDA.
- PROJECT CONTINGENCY:**
PROJECT CONTINGENCY IS INCLUDED FOR UNFORESEEN CONDITIONS THAT MAY ARISE DURING THE EXECUTION OF WORK. THIS ITEM SHALL ONLY COVER UNFORESEEN ITEMS THAT ARE NOT COVERED UNDER THE SCOPE OF WORK (LISTED PAY QUANTITIES). THE USE OF THIS ITEM WILL NOT BE ALLOWED WITHOUT WRITTEN PERMISSION OF THE ENGINEER AND FOLLOWING AN EXECUTED CHANGE ORDER. UPON THE COMPLETION OF ALL WORK, ANY UNUSED PORTION OF THIS ITEM SHALL BE REMOVED FROM THE CONTRACT BY CHANGE ORDER AND THE CONTRACT PRICE SHALL BE REDUCED ACCORDINGLY.



SPECIAL PAY NOTES:

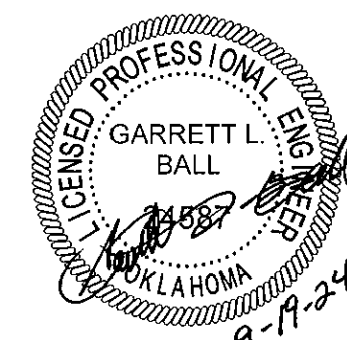
- PAYMENT SHALL BE BASED ON ACTUAL MATERIAL QUANTITIES PROVIDED. CONTRACTOR SHALL PROVIDE LOAD TICKETS FOR ALL MATERIAL IN ORDER TO RECEIVE PAYMENT. OWNER SHALL NOT BE RESPONSIBLE FOR COST OF EXCESS MATERIALS.
- AGGREGATE BASE THAT IS SATURATED OR PROVIDED WITH EXCESSIVE WATER WILL BE REJECTED AND NOT ACCEPTED. CONTRACTOR SHALL COORDINATE WITH SUPPLIER TO NOT DELIVER EXCESSIVELY WET AGGREGATE BASE.
- EXCESSIVE QUANTITIES REQUIRED DUE TO IMPROPER AND/OR POOR GRADING FOR ITEMS SUCH AS CONCRETE, AGGREGATE BASE, ECT. SHALL BE AT THE CONTRACTOR'S EXPENSE.
- ITEMS NOT SHOWN IN QUANTITIES SHALL BE CONSIDERED INCIDENTAL TO OTHER ITEMS. THOSE ITEMS INCLUDE, BUT ARE NOT LIMITED TO MAILBOX REMOVAL/RESETTING, STREET SIGN REMOVAL/RESETTING, FENCE REMOVAL/RESETTING, RESTORATION OF ANY OFFSITE STORAGE/LAYDOWN AREAS, CLEANING/JETTING OF EXISTING CULVERTS, SUBGRADE METHOD 'B' UNDER ALL NEW PAVEMENTS, OLD CULVERT REMOVAL/DISPOSAL, BLADING/SWEEPING EXISTING SURFACES, CONSTRUCTION STAKING, WEDGE MILLING, REMOVAL/DISPOSAL OF OTHER OBSTRUCTIONS AND POT HOLING/PROTECTION AND HAND EXCAVATION AROUND EXISTING UTILITIES.

Time: 1:00 pm
 Scale: 1"=1 (FS)
 Drawing Name: rv-ch-file1\Planning\Engineering\Projects\E2023-027\ENG\DWG\E2023-027\ENG NOTES.dwg (gball)
 Date: 8/28/2024 Xrefs Used: E2023-027\ENG 22X36 TITLE BLOCK
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CLAREMORE
ENGINEERING

724 Ramm Road, Claremore, Oklahoma 74017
 918-341-0457 Fax: 918-341-6147 www.claremore.com

BAKER HUGHES
 FEEDER EXITS
 FOR
 CLAREMORE PWA
 CLAREMORE, OK



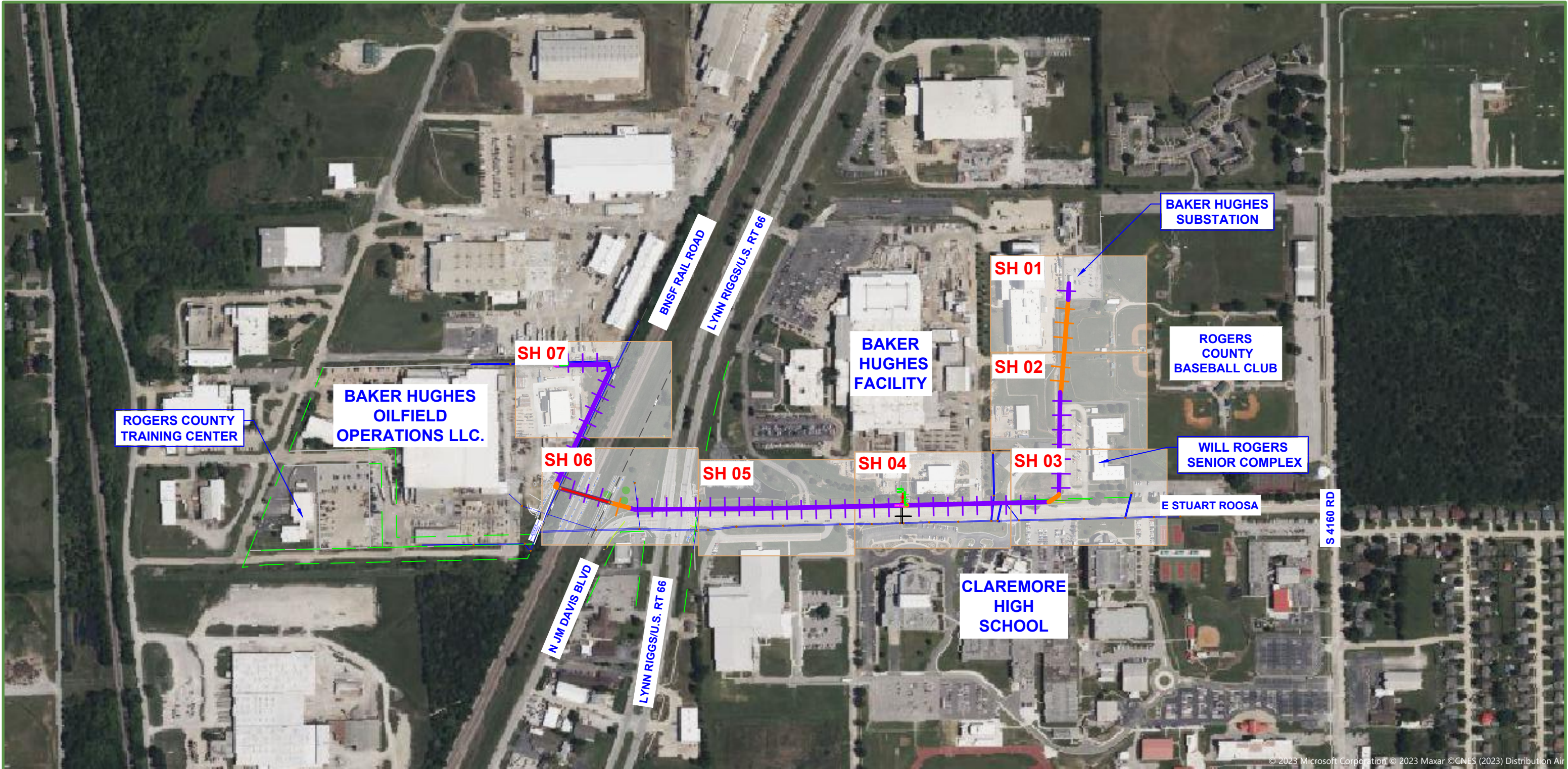
FOR CONSTRUCTION

Revisions	
1	9/19/24: ADDED 6" HDPE CONDUIT
2	
3	

PAY QUANTITIES & QUANTITY NOTES


Drawn by B. Weiden
 Checked by G. BALL
 Date AUGUST 2024
 Project Number E2023-027

Sheet **3**



ELECTRONIC FILE TRANSFER DISCLAIMER:
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MARK	DATE	REVISION
01	8/22/24	Issue For Bid



9/18/2024

BAKER HUGHES FEEDER EXITS CONSTRUCTION PRINTS



PROJECT CONTACT INFORMATION:
 CLAREMORE ELECTRIC-
 TODD RUE - 918-341-2895
 CLAREMORE ELECTRIC-
 GARRETT BALL - 918-341-0457
 CEC PROJECT MANAGER-
 SHAWN LOVETT - 405-753-4666
 CEC DESIGNER-
 GRACE RUFFING - 405-205-8926



CEC CORPORATION
 WWW.CONNECTCEC.COM
 OK CA#: 32 EXP.: 2024-06-30
 4555 W MEMORIAL RD.
 OKLAHOMA CITY, OK 73142
 T. 405-753-4200

- LABEL LEGEND**
- INSTALL - PINK
 - REMOVE - BLACK
 - EXISTING - BROWN/BLUE
 - CONDUCTOR NOTE - RED
 - BORE - PURPLE
 - TRENCH - GREEN
 - DUCT BANK - ORANGE

- GENERAL NOTE**
- INSTALL UNDERGROUND ALONG STUART ROOSA INSIDE OF ROAD R/W
 - ALL UNDERGROUND PRIMARY RUNS TO BE IN 6" PVC SCH 40 UNLESS OTHERWISE NOTED
 - PLACE PULL ROPE IN ALL CONDUIT
 - PLACE SPACERS & MARKING TAPE
 - PLACE SPACERS EVERY 5' IN DUCT BANK
 - SEE SHEET 08 FOR TRENCHING CONFIGURATION
 - WL01-WL19 SEE FIGURE "A", 18.5" TRENCH
 - WL22-WL31/33 SEE FIGURE "B", 28.5" TRENCH
 - BACKFILL WITH SAND
 - SPLICE IN PULL BOXES
 - ALL STEEL 45°/90° BENDS TO BE CONCRETE ENCASED

BAKER HUGHES FACILITY

WL: 01 / BORE
 BORE FROM WL 02 TO CONNECTION BOX INSIDE THE SUB
 PL: (4X) 6" PVC SHC 40 HW INTERLOCKING BORE CONDUIT
 NOTE: UNDERGROUND CABLE TO BE PLACED BY OTHERS
 CCT: RED, GREEN, BLUE, SPARE

BAKER HUGHES SUBSTATION

WL: 02 / PULL BOX
 PL: UF.PBC PRIMARY PULL BOX
 NOTE: PULL CABLE THROUGH, NO SPLICING REQUIRED

WL: 03 / TRENCH
 18.5" TRENCH: FROM WL: 02 TO WL: 04
 PL: DUCT BANK
 (4X) 6" PVC SCH 40 TYPE II CONDUIT
 MARKING TAPE & SPACERS
 BACKFILL TRENCH WITH SAND
 NOTE: UNDERGROUND CABLE TO BE PLACED BY OTHERS
 CCT: RED, GREEN, BLUE, SPARE
 SEE SH 08 TRENCH PROFILE, FIGURE A

ROGERS COUNTY BASEBALL FIELD



04	DESIGN REVISED	ENGINEERING	09/18/24
03	DESIGN REVISED	ENGINEERING	08/22/24
02	DESIGN REVISED	ENGINEERING	07/31/24
01	DESIGN REVISED	ENGINEERING	4/25/24
NO.	REVISIONS	ISSUED FOR	DATE



BAKER HUGHES SUBSTATION
 THE CITY OF CLAREMORE - ELECTRICAL DEPARTMENT

BAKER HUGHES FEEDER EXIT
STRUCTURAL INSTALLATION

SCALE: 1:40	REVISION 01	CIRCUIT BAKER HUGHES	SHEET: 01 OF 11
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- LABEL LEGEND**
- INSTALL - PINK
 - REMOVE - BLACK
 - EXISTING - BROWN/BLUE
 - CONDUCTOR NOTE - RED
 - BORE - PURPLE
 - TRENCH - GREEN
 - DUCT BANK - ORANGE

- GENERAL NOTE**
- INSTALL UNDERGROUND ALONG STUART ROOSA INSIDE OF ROAD R/W
 - ALL UNDERGROUND PRIMARY RUNS TO BE IN 6" PVC SCH 40 UNLESS OTHERWISE NOTED
 - PLACE PULL ROPE IN ALL CONDUIT
 - PLACE SPACERS & MARKING TAPE
 - PLACE SPACERS EVERY 5' IN DUCT BANK
 - SEE SHEET 08 FOR TRENCHING CONFIGURATION
 - WL01-WL19 SEE FIGURE "A", 18.5" TRENCH
 - WL22-WL31/33 SEE FIGURE "B", 28.5" TRENCH
 - BACKFILL WITH SAND
 - SPLICE IN PULL BOXES
 - ALL STEEL 45°/90° BENDS TO BE CONCRETE ENCASED

WL: 03 / TRENCH
 18.5" TRENCH: FROM WL: 02 TO WL: 04
 PL: DUCT BANK
 (4X) 6" PVC SCH 40 TYPE II CONDUIT
 MARKING TAPE & SPACERS
 BACKFILL TRENCH WITH SAND
 NOTE: UNDERGROUND CABLE TO BE PLACED BY OTHERS
 CCT: RED, GREEN, BLUE, SPARE
 SEE SH 08 TRENCH PROFILE, FIGURE A

WL: 04 / PULL BOX
 PL: UF.PBC PRIMARY PULL BOX

WL: 05
 (4) BORE: FROM WL: 04 TO WL: 06 AT A MIN. DEPTH OF 4'
 PL: (4X) 6" PVC SCH 40 HW INTERLOCKING BORE CONDUIT
 NOTE: UNDERGROUND CABLE TO BE PLACED BY OTHERS
 CCT: RED, GREEN, BLUE, SPARE

**ROGERS COUNTY
 BASEBALL FIELD**

**BAKER HUGHES
 FACILITY**

**WILL ROGERS
 SENIOR COMPLEX**

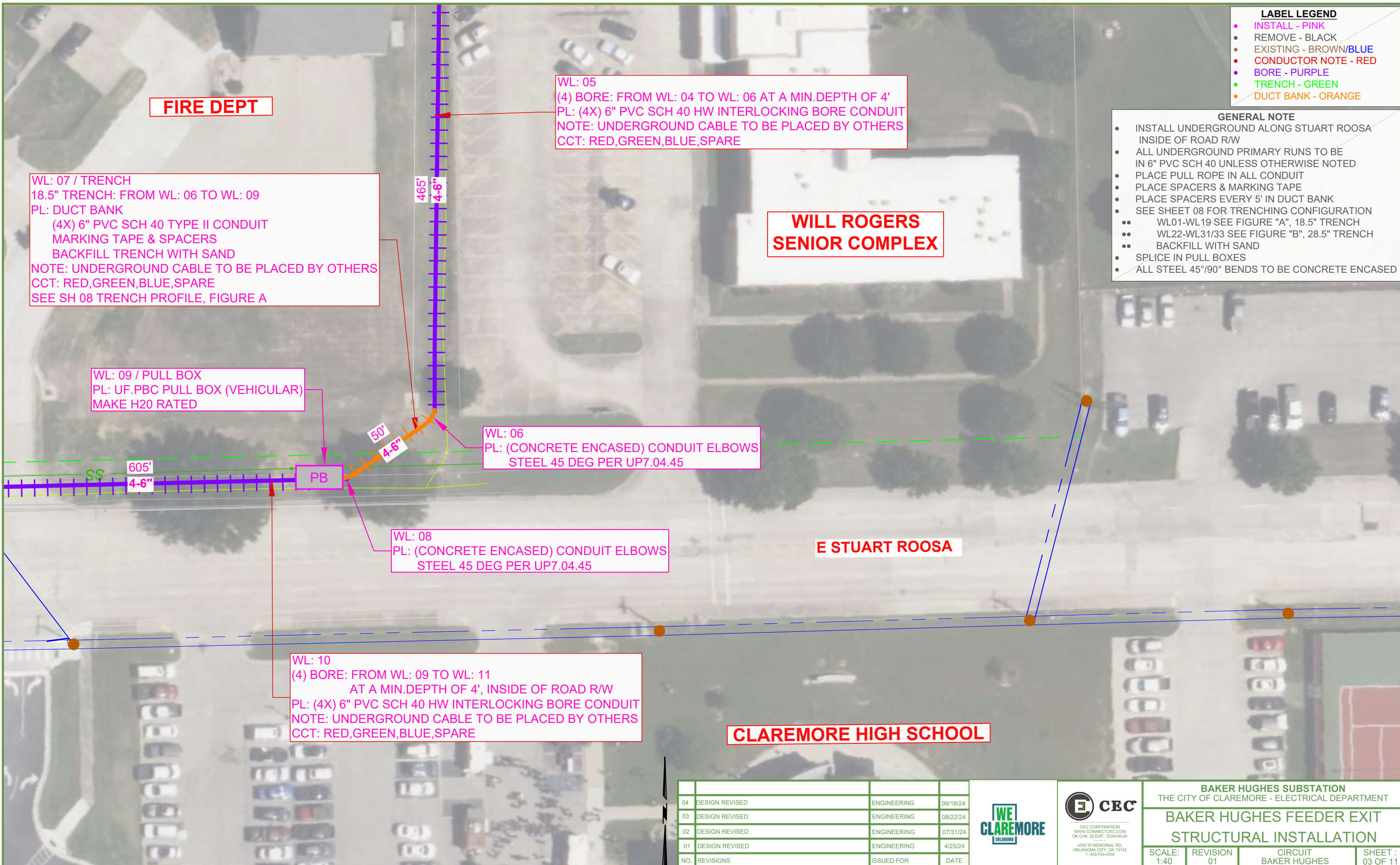
FIRE DEPT

04	DESIGN REVISED	ENGINEERING	09/18/24
03	DESIGN REVISED	ENGINEERING	08/22/24
02	DESIGN REVISED	ENGINEERING	07/31/24
01	DESIGN REVISED	ENGINEERING	4/25/24
NO.	REVISIONS	ISSUED FOR	DATE



BAKER HUGHES SUBSTATION THE CITY OF CLAREMORE - ELECTRICAL DEPARTMENT			
BAKER HUGHES FEEDER EXIT STRUCTURAL INSTALLATION			
SCALE: 1:40	REVISION 01	CIRCUIT BAKER HUGHES	SHEET : 02 OF 11

SH 02



LABEL LEGEND

- INSTALL - PINK
- REMOVE - BLACK
- EXISTING - BROWN/BLUE
- CONDUCTOR NOTE - RED
- BORE - PURPLE
- TRENCH - GREEN
- DUCT BANK - ORANGE

- GENERAL NOTE**
- INSTALL UNDERGROUND ALONG STUART ROOSA INSIDE OF ROAD R/W
 - ALL UNDERGROUND PRIMARY RUNS TO BE IN 6" PVC SCH 40 UNLESS OTHERWISE NOTED
 - PLACE PULL ROPE IN ALL CONDUIT
 - PLACE SPACERS & MARKING TAPE
 - PLACE SPACERS EVERY 5' IN DUCT BANK
 - SEE SHEET 08 FOR TRENCHING CONFIGURATION
 - WL01-WL19 SEE FIGURE "A", 18.5" TRENCH
 - WL22-WL31/33 SEE FIGURE "B", 28.5" TRENCH
 - BACKFILL WITH SAND
 - SPLICE IN PULL BOXES
 - ALL STEEL 45°/90° BENDS TO BE CONCRETE ENCASED

WL: 05
 (4) BORE: FROM WL: 04 TO WL: 06 AT A MIN.DEPTH OF 4'
 PL: (4X) 6" PVC SCH 40 HW INTERLOCKING BORE CONDUIT
 NOTE: UNDERGROUND CABLE TO BE PLACED BY OTHERS
 CCT: RED, GREEN, BLUE, SPARE

WL: 07 / TRENCH
 18.5" TRENCH: FROM WL: 06 TO WL: 09
 PL: DUCT BANK
 (4X) 6" PVC SCH 40 TYPE II CONDUIT
 MARKING TAPE & SPACERS
 BACKFILL TRENCH WITH SAND
 NOTE: UNDERGROUND CABLE TO BE PLACED BY OTHERS
 CCT: RED, GREEN, BLUE, SPARE
 SEE SH 08 TRENCH PROFILE, FIGURE A

WL: 09 / PULL BOX
 PL: UF.PBC PULL BOX (VEHICULAR)
 MAKE H20 RATED

WL: 06
 PL: (CONCRETE ENCASED) CONDUIT ELBOWS
 STEEL 45 DEG PER UP7.04.45

WL: 08
 PL: (CONCRETE ENCASED) CONDUIT ELBOWS
 STEEL 45 DEG PER UP7.04.45

WL: 10
 (4) BORE: FROM WL: 09 TO WL: 11
 AT A MIN.DEPTH OF 4', INSIDE OF ROAD R/W
 PL: (4X) 6" PVC SCH 40 HW INTERLOCKING BORE CONDUIT
 NOTE: UNDERGROUND CABLE TO BE PLACED BY OTHERS
 CCT: RED, GREEN, BLUE, SPARE

SH 04

04	DESIGN REVISED	ENGINEERING	09/18/24
03	DESIGN REVISED	ENGINEERING	08/22/24
02	DESIGN REVISED	ENGINEERING	07/31/24
01	DESIGN REVISED	ENGINEERING	4/25/24
NO.	REVISIONS	ISSUED FOR	DATE

WE CLAREMORE
OKLAHOMA

CBC CORPORATION
 WWW.CONNECTCBC.COM
 OK CAR. 32 EXP.: 2024-06-30
 4555 W MEMORIAL RD.
 OKLAHOMA CITY, OK 73142
 T. 405-753-4200

BAKER HUGHES SUBSTATION
 THE CITY OF CLAREMORE - ELECTRICAL DEPARTMENT

BAKER HUGHES FEEDER EXIT
 STRUCTURAL INSTALLATION

SCALE: 1:40	REVISION 01	CIRCUIT BAKER HUGHES	SHEET : 03 OF 11
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LABEL LEGEND

- INSTALL - PINK
- REMOVE - BLACK
- EXISTING - BROWN/BLUE
- CONDUCTOR NOTE - RED
- BORE - PURPLE
- TRENCH - GREEN
- DUCT BANK - ORANGE

GENERAL NOTE

- INSTALL UNDERGROUND ALONG STUART ROOSA INSIDE OF ROAD R/W
- ALL UNDERGROUND PRIMARY RUNS TO BE IN 6" PVC SCH 40 UNLESS OTHERWISE NOTED
- PLACE PULL ROPE IN ALL CONDUIT
- PLACE SPACERS & MARKING TAPE
- PLACE SPACERS EVERY 5' IN DUCT BANK
- SEE SHEET 08 FOR TRENCHING CONFIGURATION
 - WL01-WL19 SEE FIGURE "A", 18.5" TRENCH
 - WL22-WL31/33 SEE FIGURE "B", 28.5" TRENCH
 - BACKFILL WITH SAND
- SPLICE IN PULL BOXES
- ALL STEEL 45°/90° BENDS TO BE CONCRETE ENCASED

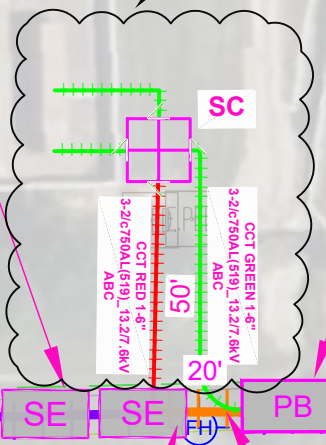
BAKER HUGHES FACILITY

WORK TO BE DONE BY OTHERS

FIRE DEPT

WL: 15
 (4) BORE: FROM WL: 14 TO WL: 16
 AT A MIN.DEPH OF 4', INSIDE OF ROAD R/W
 PL: (3X) 6" PVC SCH 40 HW INTERLOCKING BORE CONDUIT
 NOTE: UNDERGROUND CABLE TO BE PLACED BY OTHERS
 CCT: RED, BLUE, SPARE

WL: 14 / SECTIONALIZING ENCLOSURE #2
 WL: 25US3.PJ.6666, UM3,
 2-6" 90° BENDS (CONCRETE ENCASED) PER UP7.04.90
 PLACE BOLLARDS TO PROTECT ENCLOSURE
 CCT BLUE; SEE DIAGRAM ON SH 09



WL: 11 / PULL BOX
 PL: UF.PBC PULL BOX (VEHICULAR)
 MAKE H2O RATED
 TREE TRIMMING REQUIRED
 NOTE: PULL CABLE THROUGH, NO SPLICING REQUIRED

WL: 10
 (4) BORE: FROM WL: 09 TO WL: 11
 AT A MIN.DEPH OF 4', INSIDE OF ROAD R/W
 PL: (4X) 6" PVC SCH 40 HW INTERLOCKING BORE CONDUIT
 NOTE: UNDERGROUND CABLE TO BE PLACED BY OTHERS
 CCT: RED, WHITE, BLUE, SPARE

WL: 12
 PL: (CONCRETE ENCASED) CONDUIT ELBOW
 STEEL 90 DEG PER UP7.04.90
 PL: 5' EAST OF SECTIONALIZING ENCLOSURE

WL: 13 / SECTIONALIZING ENCLOSURE #1
 PL: 25US3.PJ.6666, UM3
 PL: PAD, CABINET AND
 3-6" 90° BENDS (CONCRETE ENCASED) PER UP7.04.90
 1-90° BEND CCT RED FROM BAKER HUGHES SUB(EAST)
 1-90° BEND CCT RED TO SWITCH CUBE (NORTH)
 1-90° BEND CCT RED TO BAKER HUGHES FACILITY(WEST)
 STUB OUT 1-6" CONDUIT 5' NORTH OF SOUTHEAST RUN
 PLACE BOLLARDS TO PROTECT ENCLOSURE
 CCT GREEN & RED; SEE DIAGRAM ON SH 09

CLAREMORE HIGH SCHOOL

E STUART ROOSA

SH 05

SH 03

04	DESIGN REVISED	ENGINEERING	09/18/24
03	DESIGN REVISED	ENGINEERING	08/22/24
02	DESIGN REVISED	ENGINEERING	07/31/24
01	DESIGN REVISED	ENGINEERING	4/25/24
NO.	REVISIONS	ISSUED FOR	DATE



BAKER HUGHES SUBSTATION
 THE CITY OF CLAREMORE - ELECTRICAL DEPARTMENT

BAKER HUGHES FEEDER EXIT
STRUCTURAL INSTALLATION

SCALE: 1:40	REVISION 01	CIRCUIT BAKER HUGHES	SHEET: 04 OF 11
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LABEL LEGEND

- INSTALL - PINK
- REMOVE - BLACK
- EXISTING - BROWN/BLUE
- CONDUCTOR NOTE - RED
- BORE - PURPLE
- TRENCH - GREEN
- DUCT BANK - ORANGE

GENERAL NOTE

- INSTALL UNDERGROUND ALONG STUART ROOSA INSIDE OF ROAD R/W
- ALL UNDERGROUND PRIMARY RUNS TO BE IN 6" PVC SCH 40 UNLESS OTHERWISE NOTED
- PLACE PULL ROPE IN ALL CONDUIT
- PLACE SPACERS & MARKING TAPE
- PLACE SPACERS EVERY 5' IN DUCT BANK
- SEE SHEET 08 FOR TRENCHING CONFIGURATION
 - WL01-WL19 SEE FIGURE "A", 18.5" TRENCH
 - WL22-WL31/33 SEE FIGURE "B", 28.5" TRENCH
 - BACKFILL WITH SAND
- SPLICE IN PULL BOXES
- ALL STEEL 45°/90° BENDS TO BE CONCRETE ENCASED

WL: 16
 (4) BORE: FROM WL: 14 TO WL: 16
 AT A MIN.DEPTH OF 4', INSIDE OF ROAD R/W
 PL: (3X) 6" PVC SCH 40 HW INTERLOCKING BORE CONDUIT
 NOTE: UNDERGROUND CABLE TO BE PLACED BY OTHERS
 CCT: RED, BLUE, SPARE

WL: 16 / PULL BOX
 PL: UF.PBC PULL BOX (VEHICULAR)
 MAKE H20 RATED

WL: 17
 (3X) BORE: FROM WL: 16 TO WL: 19
 AT A MIN.DEPTH OF 5'
 PL: (3X) 6" PVC SDR 13.5 HDPE CONDUIT
 NOTE: UNDERGROUND CABLE TO BE PLACED BY OTHERS
 CCT: RED, BLUE, SPARE

E STUART ROOSA

NO.	REVISIONS	ISSUED FOR	DATE
04	DESIGN REVISED	ENGINEERING	09/18/24
03	DESIGN REVISED	ENGINEERING	08/22/24
02	DESIGN REVISED	ENGINEERING	07/31/24
01	DESIGN REVISED	ENGINEERING	4/25/24



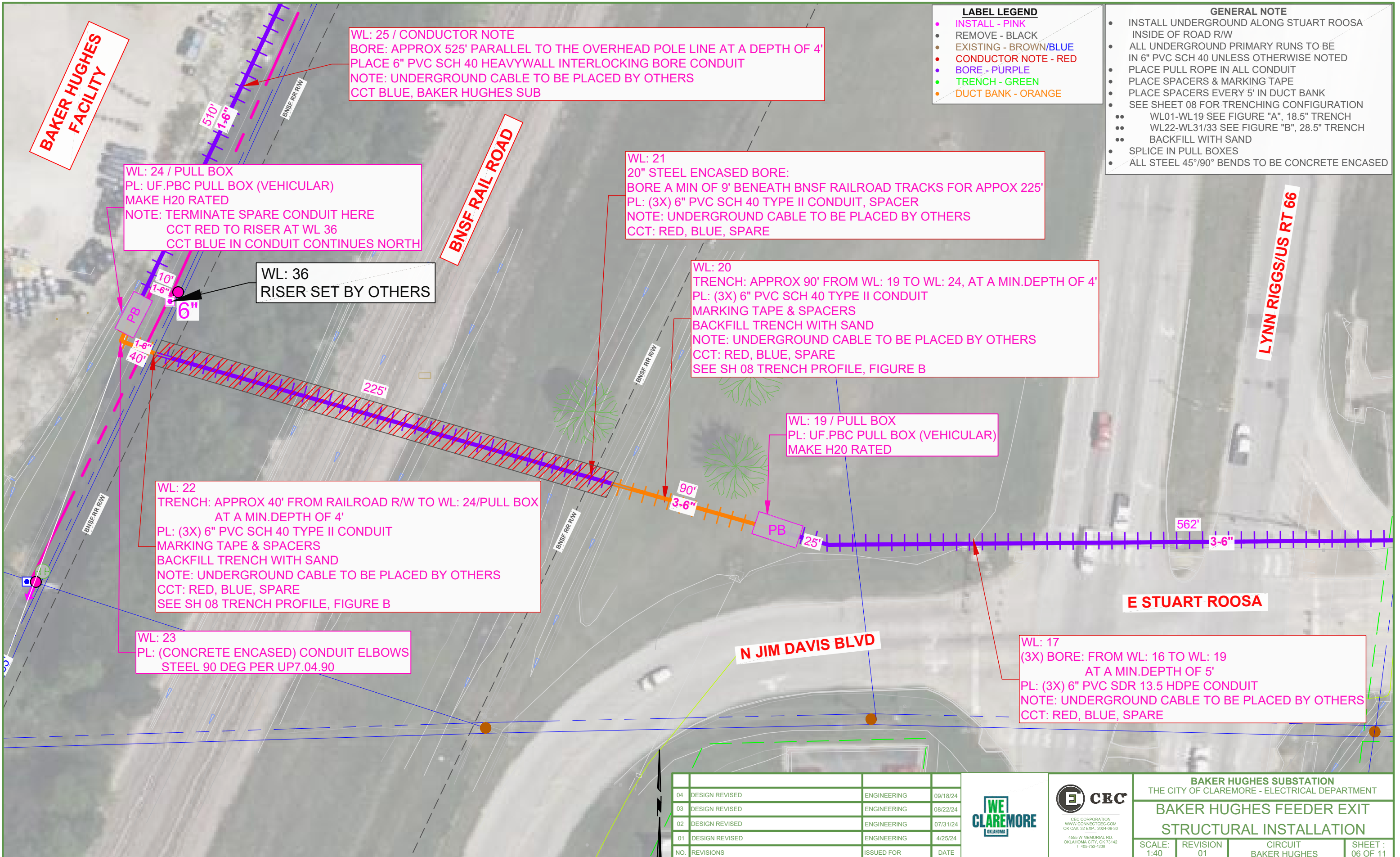
BAKER HUGHES SUBSTATION
 THE CITY OF CLAREMORE - ELECTRICAL DEPARTMENT

BAKER HUGHES FEEDER EXIT
STRUCTURAL INSTALLATION

SCALE: 1:40	REVISION 01	CIRCUIT BAKER HUGHES	SHEET : 05 OF 11
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SH 06

SH 04



LABEL LEGEND

- INSTALL - PINK
- REMOVE - BLACK
- EXISTING - BROWN/BLUE
- CONDUCTOR NOTE - RED
- BORE - PURPLE
- TRENCH - GREEN
- DUCT BANK - ORANGE

- GENERAL NOTE**
- INSTALL UNDERGROUND ALONG STUART ROOSA INSIDE OF ROAD R/W
 - ALL UNDERGROUND PRIMARY RUNS TO BE IN 6" PVC SCH 40 UNLESS OTHERWISE NOTED
 - PLACE PULL ROPE IN ALL CONDUIT
 - PLACE SPACERS & MARKING TAPE
 - PLACE SPACERS EVERY 5' IN DUCT BANK
 - SEE SHEET 08 FOR TRENCHING CONFIGURATION
 - WL01-WL19 SEE FIGURE "A", 18.5" TRENCH
 - WL22-WL31/33 SEE FIGURE "B", 28.5" TRENCH
 - BACKFILL WITH SAND
 - SPLICE IN PULL BOXES
 - ALL STEEL 45°/90° BENDS TO BE CONCRETE ENCASED

WL: 25 / CONDUCTOR NOTE
 BORE: APPROX 525' PARALLEL TO THE OVERHEAD POLE LINE AT A DEPTH OF 4'
 PLACE 6" PVC SCH 40 HEAVYWALL INTERLOCKING BORE CONDUIT
 NOTE: UNDERGROUND CABLE TO BE PLACED BY OTHERS
 CCT BLUE, BAKER HUGHES SUB

WL: 24 / PULL BOX
 PL: UF.PBC PULL BOX (VEHICULAR)
 MAKE H20 RATED
 NOTE: TERMINATE SPARE CONDUIT HERE
 CCT RED TO RISER AT WL 36
 CCT BLUE IN CONDUIT CONTINUES NORTH

WL: 36
 RISER SET BY OTHERS

WL: 21
 20" STEEL ENCASED BORE:
 BORE A MIN OF 9' BENEATH BNSF RAILROAD TRACKS FOR APPROX 225'
 PL: (3X) 6" PVC SCH 40 TYPE II CONDUIT, SPACER
 NOTE: UNDERGROUND CABLE TO BE PLACED BY OTHERS
 CCT: RED, BLUE, SPARE

WL: 20
 TRENCH: APPROX 90' FROM WL: 19 TO WL: 24, AT A MIN.DEPH OF 4'
 PL: (3X) 6" PVC SCH 40 TYPE II CONDUIT
 MARKING TAPE & SPACERS
 BACKFILL TRENCH WITH SAND
 NOTE: UNDERGROUND CABLE TO BE PLACED BY OTHERS
 CCT: RED, BLUE, SPARE
 SEE SH 08 TRENCH PROFILE, FIGURE B

WL: 19 / PULL BOX
 PL: UF.PBC PULL BOX (VEHICULAR)
 MAKE H20 RATED

WL: 22
 TRENCH: APPROX 40' FROM RAILROAD R/W TO WL: 24/PULL BOX
 AT A MIN.DEPH OF 4'
 PL: (3X) 6" PVC SCH 40 TYPE II CONDUIT
 MARKING TAPE & SPACERS
 BACKFILL TRENCH WITH SAND
 NOTE: UNDERGROUND CABLE TO BE PLACED BY OTHERS
 CCT: RED, BLUE, SPARE
 SEE SH 08 TRENCH PROFILE, FIGURE B

WL: 23
 PL: (CONCRETE ENCASED) CONDUIT ELBOWS
 STEEL 90 DEG PER UP7.04.90

WL: 17
 (3X) BORE: FROM WL: 16 TO WL: 19
 AT A MIN.DEPH OF 5'
 PL: (3X) 6" PVC SDR 13.5 HDPE CONDUIT
 NOTE: UNDERGROUND CABLE TO BE PLACED BY OTHERS
 CCT: RED, BLUE, SPARE

04	DESIGN REVISED	ENGINEERING	09/18/24
03	DESIGN REVISED	ENGINEERING	08/22/24
02	DESIGN REVISED	ENGINEERING	07/31/24
01	DESIGN REVISED	ENGINEERING	4/25/24
NO.	REVISIONS	ISSUED FOR	DATE



CEC CORPORATION
 WWW.CONNECTCEC.COM
 OK CAR: 32 EXP: 2024-06-30
 4555 W MEMORIAL RD.
 OKLAHOMA CITY, OK 73142
 T: 405-753-4200

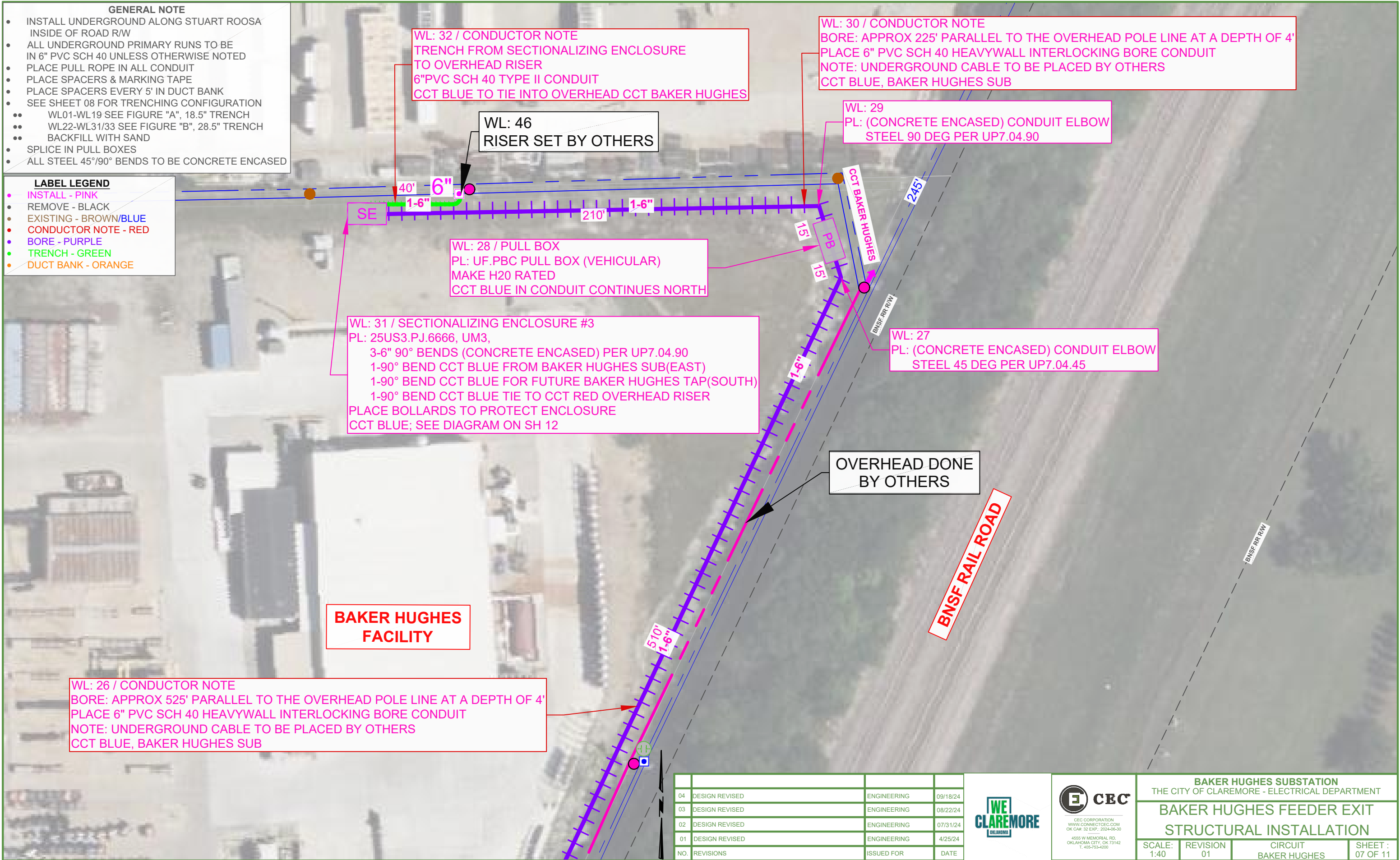
BAKER HUGHES SUBSTATION
 THE CITY OF CLAREMORE - ELECTRICAL DEPARTMENT

BAKER HUGHES FEEDER EXIT
STRUCTURAL INSTALLATION

SCALE: 1:40	REVISION 01	CIRCUIT BAKER HUGHES	SHEET : 06 OF 11
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- GENERAL NOTE**
- INSTALL UNDERGROUND ALONG STUART ROOSA INSIDE OF ROAD R/W
 - ALL UNDERGROUND PRIMARY RUNS TO BE IN 6" PVC SCH 40 UNLESS OTHERWISE NOTED
 - PLACE PULL ROPE IN ALL CONDUIT
 - PLACE SPACERS & MARKING TAPE
 - PLACE SPACERS EVERY 5' IN DUCT BANK
 - SEE SHEET 08 FOR TRENCHING CONFIGURATION
 - WL01-WL19 SEE FIGURE "A", 18.5" TRENCH
 - WL22-WL31/33 SEE FIGURE "B", 28.5" TRENCH
 - BACKFILL WITH SAND
 - SPLICE IN PULL BOXES
 - ALL STEEL 45°/90° BENDS TO BE CONCRETE ENCASED

- LABEL LEGEND**
- INSTALL - PINK
 - REMOVE - BLACK
 - EXISTING - BROWN/BLUE
 - CONDUCTOR NOTE - RED
 - BORE - PURPLE
 - TRENCH - GREEN
 - DUCT BANK - ORANGE



BAKER HUGHES FACILITY

BNSF RAIL ROAD

OVERHEAD DONE BY OTHERS

WL: 26 / CONDUCTOR NOTE
 BORE: APPROX 525' PARALLEL TO THE OVERHEAD POLE LINE AT A DEPTH OF 4'
 PLACE 6" PVC SCH 40 HEAVYWALL INTERLOCKING BORE CONDUIT
 NOTE: UNDERGROUND CABLE TO BE PLACED BY OTHERS
 CCT BLUE, BAKER HUGHES SUB

WL: 31 / SECTIONALIZING ENCLOSURE #3
 PL: 25US3.PJ.6666, UM3,
 3-6" 90° BENDS (CONCRETE ENCASED) PER UP7.04.90
 1-90° BEND CCT BLUE FROM BAKER HUGHES SUB(EAST)
 1-90° BEND CCT BLUE FOR FUTURE BAKER HUGHES TAP(SOUTH)
 1-90° BEND CCT BLUE TIE TO CCT RED OVERHEAD RISER
 PLACE BOLLARDS TO PROTECT ENCLOSURE
 CCT BLUE; SEE DIAGRAM ON SH 12

WL: 28 / PULL BOX
 PL: UF.PBC PULL BOX (VEHICULAR)
 MAKE H20 RATED
 CCT BLUE IN CONDUIT CONTINUES NORTH

WL: 32 / CONDUCTOR NOTE
 TRENCH FROM SECTIONALIZING ENCLOSURE TO OVERHEAD RISER
 6" PVC SCH 40 TYPE II CONDUIT
 CCT BLUE TO TIE INTO OVERHEAD CCT BAKER HUGHES

WL: 46
 RISER SET BY OTHERS

WL: 30 / CONDUCTOR NOTE
 BORE: APPROX 225' PARALLEL TO THE OVERHEAD POLE LINE AT A DEPTH OF 4'
 PLACE 6" PVC SCH 40 HEAVYWALL INTERLOCKING BORE CONDUIT
 NOTE: UNDERGROUND CABLE TO BE PLACED BY OTHERS
 CCT BLUE, BAKER HUGHES SUB

WL: 29
 PL: (CONCRETE ENCASED) CONDUIT ELBOW
 STEEL 90 DEG PER UP7.04.90

WL: 27
 PL: (CONCRETE ENCASED) CONDUIT ELBOW
 STEEL 45 DEG PER UP7.04.45

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BAKER HUGHES SUBSTATION
 THE CITY OF CLAREMORE - ELECTRICAL DEPARTMENT

BAKER HUGHES FEEDER EXIT
 STRUCTURAL INSTALLATION

SCALE: 1:40	REVISION 01	CIRCUIT BAKER HUGHES	SHEET: 07 OF 11
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FIGURE A
WL1-26

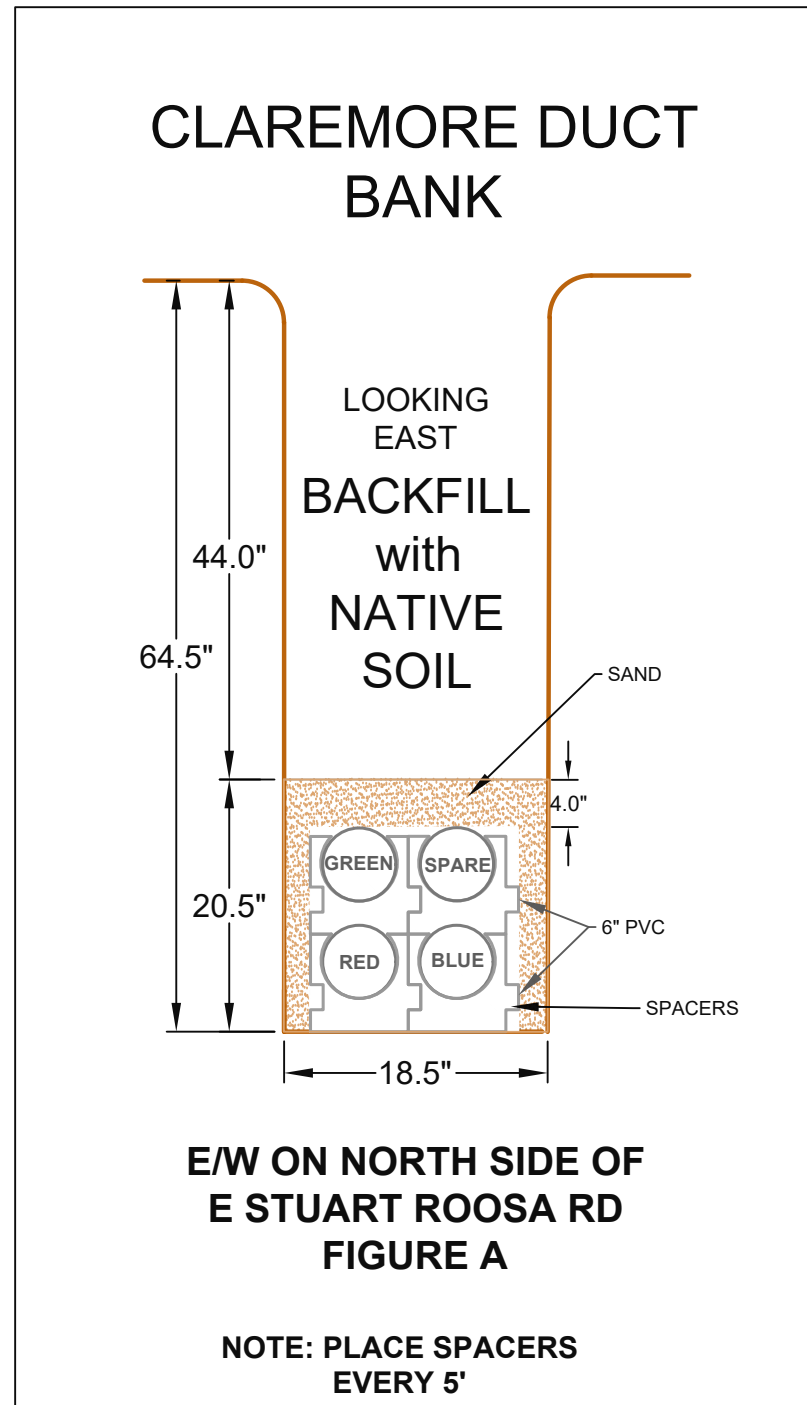
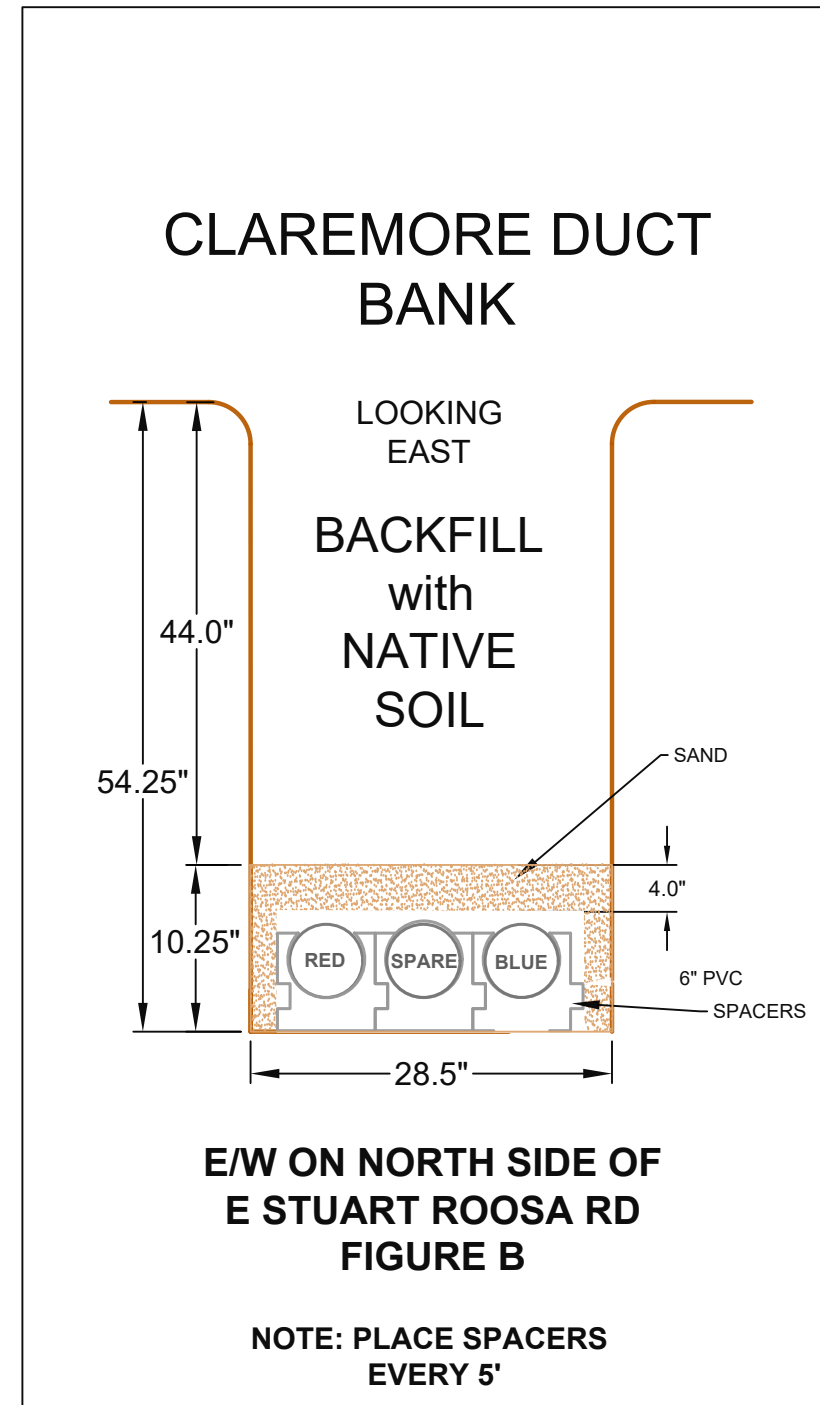


FIGURE B
WL 26-37



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01	DESIGN REVISED	ENGINEERING	4/25/24



BAKER HUGHES SUBSTATION THE CITY OF CLAREMORE - ELECTRICAL DEPARTMENT			
TRENCH PROFILE			
SCALE:	REVISION	BAKER HUGHES	SHEET :
1:40	01		08 OF 11

TRENCH:
TRENCH FROM SECTIONALIZING ENCLOSURE TO OVERHEAD RISER
6" PVC SCH 40 TYPE II CONDUIT
CCT BLUE TO TIE INTO CCT RED OVERHEAD

(4X) BORE:
(4X) 6" SCH 40HW INTERLOCKING BORE CONDUIT
CCT RED, BLUE, GREEN, SPARE

18.5" TRENCH: DUCT BANK
(4X) 6" PVC SCH 40 TYPE II CONDUIT
CCT RED, BLUE, GREEN, SPARE

BORE:
6" SCH 40HW INTERLOCKING BORE CONDUIT
CCT BULE

BORE:
6" SCH 40HW INTERLOCKING BORE CONDUIT
CCT BULE

(4X) BORE:
(4X) 6" SCH 40HW INTERLOCKING BORE CONDUIT
CCT RED, BLUE, GREEN, SPARE

28.5" TRENCH: DUCT BANK TO PULL BOX
(3X) 6" PVC SCH 40 TYPE II CONDUIT
CCT RED TO RISER TO FEED OH
CCT BLUE CONTINUES SOUTH IN CONDUIT
TERMINATE SPARE CONDUIT IN PULLBOX

28.5" TRENCH: DUCT BANK
(3X) 6" PVC SCH 40 TYPE II CONDUIT
CCT RED, BLUE, SPARE

(3X) BORE:
(3X) 6" PVC SDR 13.5 HDPE CONDUIT
CCT RED, BLUE, SPARE

(3X) BORE: STEEL ENCASED
(3X) 6" PVC SCH 40 TYPE II CONDUIT
CCT RED, BLUE, SPARE

(3X) BORE:
(3X) 6" SCH 40HW INTERLOCKING BORE CONDUIT
CCT RED, BLUE, SPARE

04	DESIGN REVISED	ENGINEERING	09/18/24
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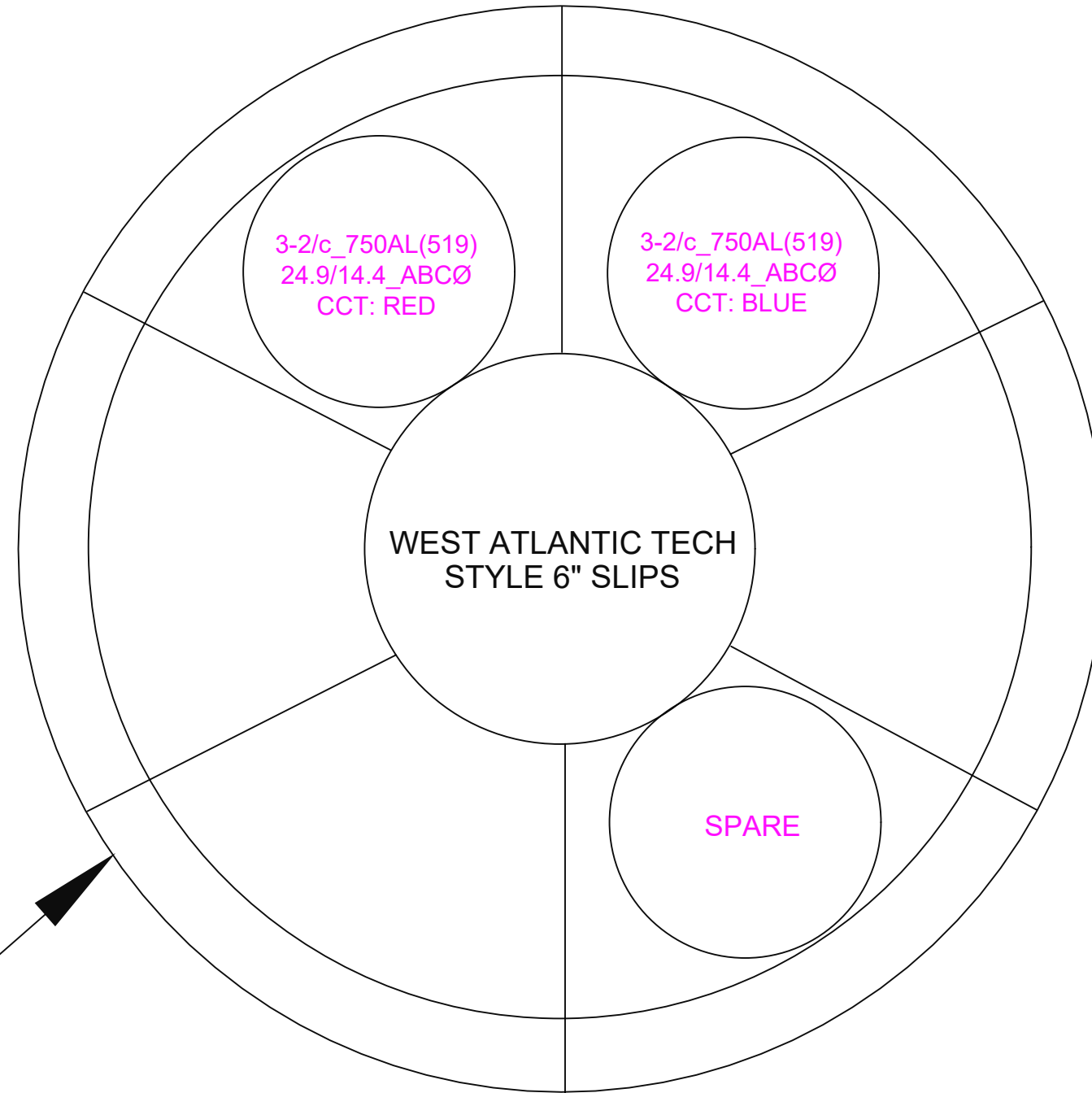


BAKER HUGHES SUBSTATION
THE CITY OF CLAREMORE - ELECTRICAL DEPARTMENT

TRENCH & BORE OVERVIEW

SCALE: NTS	REVISION 01	BAKER HUGHES	SHEET : 10 OF 11
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NOTE: PLACE SPACERS EVERY 5'



**20" UNCOATED STEEL CASING
(0.375" WALL THICKNESS)**

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BAKER HUGHES SUBSTATION THE CITY OF CLAREMORE - ELECTRICAL DEPARTMENT			
CASING			
SCALE: NTS	REVISION 01	BAKER HUGHES	SHEET : 11 OF 11