

1. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF STUMPS, ROOTS AND VEGETATION FROM THE PROJECT SITE. NO SEPARATE PAY ITEM.

2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SURFACE DRAINAGE ON SITE DURING CONSTRUCTION. NO SEPARATE PAY ITEM.

3. CONTRACTOR TO LEVEL WASHES, RUTS, DEPRESSIONS, AND MOUNDS TO GIVE AREA SMOOTH FINISH. NO SEPARATE PAY ITEM.

4. COMPACTION OF BACKFILL MATERIALS BY FLOODING OR JETTING WILL NOT BE PERMITTED.

5. ALL WATER AND SEWER SERVICE CONNECTIONS SHALL CONFORM TO THE DETAILS SHOWN ON THE STANDARD WATER AND SEWER DETAILS FOR THE CITY OF ROCKWALL.

6. ALL CONCRETE BLOCKING SHALL CONFORM TO THE DETAILS SHOWN ON THE STANDARD WATER AND SEWER DETAILS FOR THE CITY OF ROCKWALL.

7. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONTACT DIG-TESS AT 1-800-344-8377.

8. ALL NONSALVAGEABLE MATERIALS TO BECOME PROPERTY OF THE CONTRACTOR, AND TO BE DISPOSED OF OFFSITE. NO SEPARATE PAY ITEM.

9. CONTRACTOR SHALL TAKE ALL DUE PRECAUTIONS TO PROTECT EXISTING FACILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING FACILITIES INCURRED AS A RESULT OF CONSTRUCTION OPERATIONS WILL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.

10. CITY OF ROCKWALL IS TO BE NOTIFIED 48 HOURS IN ADVANCE OF ALL CONSTRUCTION BY TELEPHONE (972-771-7700) FOLLOWED BY A LETTER OF CONFIRMATION.

11. CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL OBTAIN ALL CONSTRUCTION PERMITS PRIOR TO COMMENCEMENT OF WORK.

12. THESE PLANS, PREPARED BY HUITT-ZOLLARS, INC., DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF HUITT-ZOLLARS, INC., A REGISTERED PROFESSIONAL ENGINEER(S) HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS.

13. SANITARY SEWERS SHALL BE INSTALLED NO CLOSER TO WATERLINES THAN NINE FEET IN ALL DIRECTIONS. SANITARY SEWER LINES THAT PARALLEL WATER LINES MUST BE INSTALLED IN SEPARATE TRENCHES. WHERE THE NINE FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE FOLLOWING GUIDELINES SHALL APPLY:

a. WHERE A SANITARY SEWER PARALLELS A WATERLINE, THE SEWER SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC MEETING ASTM SPECIFICATIONS WITH A PRESSURE RATING FOR BOTH THE PIPE AND JOINTS OF 150 PSI. THE VERTICAL SEPARATION SHALL BE A MINIMUM OF 2 FEET BETWEEN OUTSIDE DIAMETERS AND THE HORIZONTAL SEPARATION SHALL BE A MINIMUM OF FOUR FEET BETWEEN OUTSIDE DIAMETERS. THE SEWER SHALL BE LOCATED BELOW THE WATERLINE.

b. WHERE A SANITARY SEWER CROSSES A WATERLINE AND THE SEWER IS CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC WITH A MINIMUM PRESSURE RATING OF 150 PSI, AN ABSOLUTE DISTANCE OF 12 INCHES BETWEEN OUTSIDE DIAMETERS SHALL BE MAINTAINED. IN ADDITION THE SEWER SHALL BE LOCATED BELOW THE WATERLINE WHERE POSSIBLE AND ONE LENGTH OF THE SEWER PIPE MUST BE CENTERED ON THE WATER LINE.

c. WHERE A SEWER CROSSES OVER A WATERLINE ALL PORTIONS OF THE SEWER WITHIN NINE FEET OF THE WATERLINE SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC PIPE WITH A PRESSURE RATING OF AT LEAST 150 PSI USING APPROPRIATE ADAPTERS. IN LIEU OF THIS PROCEDURE, THE NEW SEWER MAY BE ENCASED IN A JOINT OF 150 PSI PRESSURE CLASS PIPE AT LEAST 18 FEET LONG AND TWO NOMINAL SIZES LARGER THAN THE NEW SEWER. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT 5 FEET INTERVALS WITH SPACERS OR BE FILLED TO THE SPRING LINE WITH WASHED SAND. THE ENCASEMENT PIPE SHOULD BE CENTERED ON THE CROSSING AND BOTH ENDS SEALED WITH CEMENT GROUT OR MANUFACTURED SEAL.

14. UNLESS SANITARY SEWER MANHOLES AND THE CONNECTING SEWER CAN BE MADE WATERTIGHT AND TESTED FOR NO LEAKAGE, THEY MUST BE INSTALLED SO AS TO PROVIDE A MINIMUM OF NINE FEET OF HORIZONTAL CLEARANCE SEPARATION FROM AN EXISTING OR PROPOSED WATER LINE. WHERE THE NINE FOOT SEPARATION BETWEEN THE CONNECTING SEWER AND A WATERLINE CANNOT BE ACHIEVED, A CARRIER PIPE WITH A MINIMUM PRESSURE RATING OF 150 PSI MAY BE USED WHERE APPROPRIATE. THE CARRIER PIPE SHALL BE AT LEAST 18 FEET LONG AND TWO NOMINAL SIZES LARGER THAN THE SEWER CONVEYANCE. THE SEWER MUST BE SUPPORTED WITHIN THE CARRIER PIPE BY SPACERS AT FIVE FOOT INTERVALS OR FILLED TO THE SPRING LINE WITH WASHED SAND, AND BOTH ENDS OF THE CARRIER PIPE MUST BE SEALED WITH CEMENT GROUT OR A MANUFACTURED SEAL.

15. CONTRACTOR SHALL PROVIDE, INSTALL, AND MAINTAIN TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MOST RECENT EDITION, AS REVISED) DURING CONSTRUCTION.

16. PROPOSED FINAL GRADES AND DRAINAGE FACILITIES ARE SHOWN ON THE PLAN AND PROFILE DRAWINGS FOR REFERENCE ONLY AND WILL BE CONSTRUCTED BY OTHERS.

17. THE CONTRACTOR SHALL VERIFY THE LOCATION OF AND TYPE OF PIPE MATERIAL FOR THE EXISTING 16 INCH WATER MAIN PRIOR TO FABRICATION OF CONNECTION/TRANSITION FITTINGS.

18. ECCENTRIC REDUCERS SHALL BE INSTALLED SO THAT PIPE CROWNS ALIGN.

19. INSTALLATION OF NEW WATER SERVICES INCLUDES CONNECTION OF NEW SERVICE TO EXISTING CUSTOMER SERVICE LINE AND TRANSFER OF EXISTING WATER METER TO NEW METER BOX. CONTRACTOR SHALL COORDINATE TRANSFER OF EACH METER AND SERVICE WITH UTILITY CUSTOMER AND CITY OF ROCKWALL. CITY WILL PROVIDE BUSHINGS TO ACCOMMODATE EXISTING METERS.

20. CONTRACTOR SHALL REMOVE ALL FIRE HYDRANTS ON EXISTING WATERLINES THAT ARE BEING ABANDONED AND DELIVER THEM TO THE CITY OF ROCKWALL.

21. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE MEASURES FOR PREVENTING STORM WATER RUNOFF FROM ENTERING THE TRENCH DURING CONSTRUCTION.

22. CONTRACTOR SHALL SECURE EXCAVATION AT THE END OF EACH DAY. THE OWNER MAY REQUIRE THAT NO TRENCHES BE LEFT OPEN OVERNIGHT IN STREETS OR POPULATED AREAS.

23. TOPSOIL SHALL BE STOCKPILED AND REPLACED TO A MINIMUM DEPTH OF 12 INCHES AND DISC HARROWED TO A MINIMUM DEPTH OF 4 INCHES.

24. RESTORE GROUND TO ORIGINAL GRADE AND PREVENT PONDING OF STORM WATER RUNOFF ON ALL GROUND DISTURBED BY CONSTRUCTION ACTIVITIES.

25. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT OF ALL POWER AND TELEPHONE POLES AND GUY WIRES WITHIN 15 FEET OF PROPOSED UTILITY LINES AND SHALL REPAIR DAMAGED POLES AND GUY WIRES AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR MUST CONTACT & COORDINATE ALL WORK W/ UTILITY OWNER AT NO ADDITIONAL COST TO THE OWNER.

26. TRIMMING OF TREES SHALL BE ACCOMPLISHED USING A SAW OR PRUNING SHEARS. ALL CUT LIMBS OVER 1 INCH IN DIAMETER SHALL BE PAINTED WITH TREE WOUND PAINT IMMEDIATELY AFTER TREE TRIMMING.

27. ANY FENCES DAMAGED OR REMOVED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED AT THE SAME LOCATION WITH A FENCE OF EQUAL OR SUPERIOR QUALITY.

28. TEMPORARY FENCING SHALL BE REQUIRED WHERE THERE IS LIVESTOCK, AND WHERE DAMAGED OR REMOVED FENCES ARE NOT TO BE REPLACED BY END OF SAME WORK DAY, OR AS DIRECTED BY OWNER. CONTRACTOR SHALL VERIFY PRESENCE OF LIVESTOCK WITH LANDOWNER PRIOR TO ENTERING PROPERTY.

29. CONTRACTOR SHALL PROVIDE A STORM WATER POLLUTION PREVENTION PLAN AND PROVIDE ALL APPURTENANCES TO COMPLY WITH THE LATEST TCEQ STORM WATER POLLUTION PREVENTION REGULATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FILING A NOTICE OF INTENT (NOI) AT THE START OF CONSTRUCTION AND A NOTICE OF TERMINATION (NOT) AT THE END OF CONSTRUCTION WITH THE TCEQ.

30. CONTRACTOR SHALL PROVIDE ADEQUATE MEASURES FOR DEWATERING AS NECESSARY.

31. CONTRACTOR SHALL PROTECT ALL UNDERGROUND IRRIGATION SYSTEMS (KNOWN AND UNKNOWN). ALL DAMAGE SHALL BE REPAIRED BY IRRIGATOR LICENSED IN THE STATE OF TEXAS.

32. CONTRACTOR SHALL SUBMIT A WRITTEN PLAN AND SCHEDULE 14 DAYS IN ADVANCE OF CONSTRUCTION ACTIVITIES REQUIRING REPLACEMENT OR SUPPORT OF EXISTING SANITARY SEWER PIPE, WATER PIPE OR STORM DRAIN PIPE.

33. CONTRACTOR SHALL CLEAN THE RIGHT-OF-WAY OF ANY AND ALL TRASH.

34. CONTRACTOR SHALL NOT DAMAGE EXISTING TREES LARGER THAN 3 INCHES IN DIAMETER (MEASURED 4 FT. ABOVE THE GROUND). THE CONTRACTOR MUST OBTAIN APPROVAL FROM THE OWNER'S REPRESENTATIVE BEFORE ANY TREES CAN BE REMOVED OR TRIMMED.

35. CONTRACTOR SHALL BE REQUIRED TO INSTALL TEMPORARY TEST PLUGS FOR HYDROSTATIC TESTING AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.

36. CONTRACTOR, AT HIS DISCRETION, MAY TUNNEL UNDER EXISTING UTILITIES OR ROADWAYS OTHER THAN THOSE CROSSINGS SPECIFICALLY SHOWN ON THE DRAWINGS, AT NO ADDITIONAL COST TO THE OWNER.

37. IT SHALL BE THE COMPLETE RESPONSIBILITY OF THE CONTRACTOR TO REBUILD THE CONCRETE OR ASPHALT PAVEMENT REPLACEMENT SECTIONS TO THE SAME LINE AND GRADE AS EXISTED PRIOR TO PIPELINE CONSTRUCTION.

38. BLASTING WILL NOT BE ALLOWED.

39. CONSTRUCTION SURVEYING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY ALL CONTROL MONUMENTATION PRIOR TO BEGINNING CONSTRUCTION.

40. CLEARING AND GRUBBING MAY BEGIN NO SOONER THAN TWO WEEKS PRIOR TO PIPE TRENCHING OPERATIONS. PIPE STRINGING SHALL BE NO MORE THAN ONE WEEK PRIOR TO PIPE LAYING. BACKFILL, CLEAN-UP, AND SURFACE RESTORATION SHALL BE COMPLETED NO MORE THAN ONE WEEK AFTER PIPE LAYING AND NO MORE THAN 200 FEET FROM PIPE LAYING OPERATIONS. THE SITE SHALL BE KEPT CLEAN OF TRASH AT ALL TIMES. FAILURE TO COMPLY WITH THESE REQUIREMENTS MAY RESULT IN WITHHOLDING SOME OR ALL PAYMENT TO THE CONTRACTOR.

41. CONTRACTOR SHALL MAINTAIN AT LEAST ONE LANE OF TRAFFIC ON ALL ROADS AT ALL TIMES AND CONSTRUCT TEMPORARY BYPASS, IF NECESSARY. IF THE ROADWAY MUST BE CLOSED TO FACILITATE CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE OWNER FOR APPROVAL NO LESS THAN 14 DAYS IN ADVANCE OF THE PROPOSED ROADWAY CLOSURE. ANY COMMENTS RECEIVED ON THE PLAN BY THE OWNER SHALL BE INCORPORATED INTO THE PLAN. THE PLAN SHALL BE PREPARED SPECIFICALLY FOR THIS PROJECT AND SHALL BE SEALED AND SIGNED BY AN ENGINEER LICENSED IN THE STATE OF TEXAS. THE COST TO PREPARE THE TRAFFIC CONTROL PLAN, WHEN REQUIRED, SHALL BE MADE INCIDENTAL TO THE PROJECT. IF AT ANYTIME DURING CONSTRUCTION THE CONTRACTOR'S PROPOSED PLAN OF OPERATION FOR HANDLING TRAFFIC DOES NOT PROVIDE FOR THE SAFE, COMFORTABLE MOVEMENT OF TRAFFIC, THE CONTRACTOR SHALL IMMEDIATELY CHANGE HIS OPERATIONS TO CORRECT THE UNSATISFACTORY CONDITIONS.

42. CONTRACTOR SHALL PROVIDE APPROPRIATE SIGNAGE, BARRICADES, FLAGMEN, ETC. REQUIRED TO MAINTAIN SAFE TRAFFIC FLOW AT ALL TIMES FOR ANY WORK ACTIVITY ON OR ADJACENT TO ANY OWNER, COUNTY OR TXDOT ROADWAY. ALL TRAFFIC CONTROL MEASURES SHALL BE IN ACCORDANCE WITH TXDOT'S MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

43. CONTRACTOR'S OPERATIONS MUST STAY WITHIN THE PERMANENT RIGHT-OF-WAY AND EASEMENTS. ANY DAMAGE OUTSIDE THESE OPERATIONS SHALL BE REPAIRED AND/OR REPLACED AT THE CONTRACTOR'S EXPENSE. ACCESS ROUTES OR OPERATIONS WHICH FALL OUTSIDE THE DESIGNATED AREAS WILL ONLY BE ALLOWED WITH PRIOR LANDOWNER CONSENT. CONTRACTOR SHALL PROVIDE THE OWNER WITH A COPY OF ANY AGREEMENTS MADE BETWEEN THE LANDOWNER AND THE CONTRACTOR.

44. PRIOR TO THE FIRST PAYMENT TO CONTRACTOR, THE CONTRACTOR SHALL PROVIDE A VIDEO TAPE TO THE OWNER DOCUMENTING THE CONDITION OF THE PIPELINE ROUTE AND SURROUNDING AREA PRIOR TO THE START OF ANY CONSTRUCTION.

45. CONTRACTOR SHALL PROVIDE ACCESS FOR LANDOWNERS AT EXISTING ROADS AND DRIVES AT ALL TIMES.

46. WATER LINES 4-INCHES TO 12-INCHES IN DIAMETER SHALL BE PVC AWWA C-900 DR-14, CLASS 200. 16 INCH WATER LINE SHALL BE PVC AWWA C-905 CL 230.

47. ALL WATER LINES SHALL HAVE A MINIMUM COVER OF 48-INCHES.

48. ALL TEES, BENDS, ELBOWS, PLUGS, AND OTHER FITTINGS SHALL BE RESTRAINED USING MEGA-LUGS OR APPROVED EQUAL JOINT RESTRAINT.

49. FIRE HYDRANT ASSEMBLY SHALL INCLUDE 6" LEAD LINE, 6" GATE VALVE, FITTINGS, CONCRETE BLOCKING, AND APPURTENANCES.

50. EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION PROVIDED BY UTILITY COMPANIES AND FIELD SURVEYS. THE UTILITIES SHOWN MAY NOT REPRESENT ALL UTILITIES PRESENT. THE ENGINEER AND CITY OF ROCKWALL DO NOT ACCEPT RESPONSIBILITY FOR THE UTILITY LOCATIONS SHOWN. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS BOTH HORIZONTALLY AND VERTICALLY PRIOR TO CONSTRUCTION AND SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ALL UTILITIES ENCOUNTERED. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE AND SHALL REPAIR ANY UTILITIES DAMAGED BY THEIR OPERATIONS AT THEIR EXPENSE. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS WITH UTILITIES.

51. ALL WORK SHALL COMPLY WITH APPLICABLE CODES, REGULATIONS, AND STANDARDS IMPOSED BY THE CITY OF ROCKWALL.

52. CONTRACTOR SHALL FURNISH AND INSTALL BLUE E.M.T. MARKER PADS AT ALL BENDS, VALVES, CHANGES IN HORIZONTAL ALIGNMENT, AND EVERY 250-FEET ALONG THE LENGTH OF THE WATER LINE AS SHOWN IN THE CITY OF ROCKWALL STANDARD DETAILS. PAYMENT FOR FURNISHING AND INSTALLING THE E.M.T. MARKER PADS SHALL BE SUBSIDIARY TO WATER LINE INSTALLATION.

53. FOR OPEN CUT SEWER REPLACEMENT, CONTRACTOR SHALL FURNISH & INSTALL GREEN SEWER E.M.T. MARKER PADS AT ALL MANHOLES, CLEANOUTS, SERVICES, CHANGES IN DIRECTION AND 250-FEET ALONG THE LENGTH OF THE SEWER LINE. PAYMENT FOR FURNISHING THE E.M.T. MARKER PADS SHALL BE SUBSIDIARY TO SEWER LINE INSTALLATION.

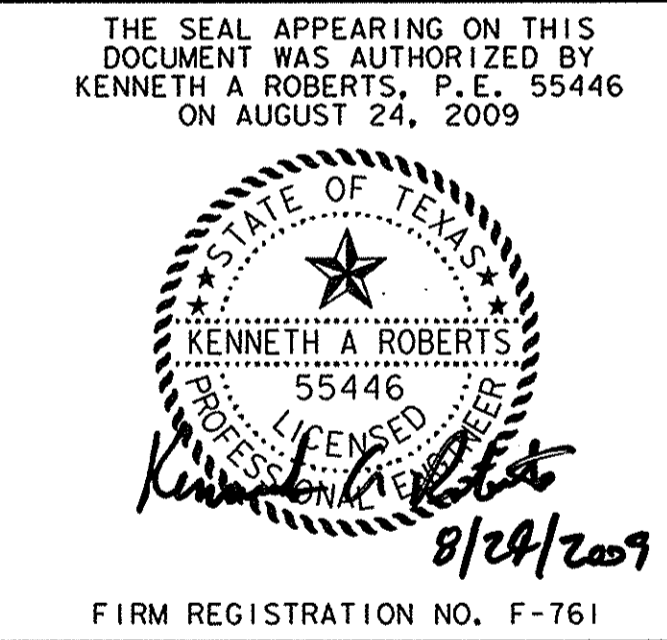
54. STANDARD MANHOLE FRAMES AND 24-INCH DIAMETER COVER SHALL BE PAMREX 24 AS MANUFACTURED BY CERTAINTEED CORPORATION. TYPE-S MANHOLE FRAME AND 24-INCH COVER SHALL BE PAMTIGHT 24 AS MANUFACTURED BY CERTAINTEED CORPORATION.

55. 4200 PSI. CONCRETE SHALL BE USED FOR ALL MANHOLES.

56. USE ONLY A NON-SHEAR COUPLING FOR PIPE CONNECTIONS.

57. WHEN THE TRENCH SAFETY EXCEEDS 5 FEET IN DEPTH. THE CONTRACTOR SHALL MEET OR EXCEED THE O.S.H.A. STANDARDS FOR TRENCH SAFETY.

58. GRAVITY SEWER PIPE 6-INCHES TO 15-INCHES IN DIAMETER SHALL BE PVC ASTM F679 SDR 26 SOLID WALL. PIPE COLOR SHALL BE WHITE.



RECORD DRAWINGS AUGUST 13, 2010 <i>KAR</i> THIS RECORD DOCUMENT HAS BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.						
FM 740						
GENERAL NOTES						
HORIZON ROAD TO WELLINGTON LANE						
HUITT-ZOLLARS		Huitt-Zollars, Inc. Reg. No. F-761 3131 McKinney Avenue, Suite 600 Dallas, Texas 75204-2489 Phone (214) 871-3311 Fax (214) 871-0757				
CITY OF ROCKWALL, TEXAS						
DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
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