

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF ROCKWALL DESIGN AND CONSTRUCTION STANDARDS AND THE 3RD EDITION OF THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION EXCEPT WHERE MODIFIED IN THE PLANS OR THE SPECIFICATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS AND SIDEWALKS ADJACENT TO THE PROJECT FREE OF MUD AND DEBRIS FROM CONSTRUCTION AT ALL TIMES.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING COPIES OF ALL NECESSARY PERMITS AND APPROVALS BEFORE CONSTRUCTION BEGINS.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN A NEAT AND ACCURATE RECORD OF CONSTRUCTION FOR THE CITY'S RECORDS. AT THE CONCLUSION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE THE CITY FULL SIZE REPRODUCIBLE MARKUPS THAT RECORD ALL CONSTRUCTION DEVIATING FROM THE PLANS.
5. CONTRACTOR SHALL NOT STORE MATERIALS, EQUIPMENT OR OTHER CONSTRUCTION ITEMS ON ADJACENT PROPERTIES OR RIGHT-OF-WAY WITHOUT THE PRIOR WRITTEN CONSENT OF THE PROPERTY OWNER OR THE CITY (FOR R.O.W.). ALL CONSTRUCTION MATERIALS TO BE REMOVED SHALL BE DISPOSED OF AT A LEGAL DISPOSAL LOCATION OFF SITE, UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE PROPERTY OWNER AND THE CITY.
6. ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED. UNUSABLE EXCAVATED MATERIAL AND ALL WASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE DISPOSED OF AT A LEGAL DISPOSAL FACILITY OFF SITE BY THE CONTRACTOR AT HIS EXPENSE UNLESS OTHERWISE SPECIFIED OR AGREED TO BY OWNER.
7. THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING WATER, OR AS APPROVED BY THE ENGINEER.
8. ALL EFFORTS SHALL BE MADE TO AVOID DAMAGE TO EXISTING TREES THAT ARE TO REMAIN. TREES SHALL BE TRIMMED AND PAINTED ONLY IF NECESSARY FOR THE SAFE MANEUVERING OF CONSTRUCTION EQUIPMENT. THE CONTRACTOR SHALL NOT SNAG OR TEAR TREE ROOTS. PRUNING OF TREES AND SHRUBS SHALL BE PERFORMED BY A CERTIFIED ARBORIST.
9. ALL ADJACENT PROPERTY DAMAGED BY THE PROPOSED CONSTRUCTION SHALL BE RESTORED TO EQUAL OR BETTER CONDITION THAN WHICH IT WAS FOUND BEFORE SUCH WORK WAS UNDERTAKEN AT NO ADDITIONAL COST TO THE OWNER.
10. ALL FILL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR METHOD (ASTM D-698) AT A MOISTURE CONTENT BETWEEN 2 PERCENTAGE POINTS BELOW AND 3 PERCENTAGE POINTS ABOVE (+2 to +3) OF OPTIMUM MOISTURE CONTENT.
11. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PERFORMING ALL CONSTRUCTION LAYOUTS FROM THE SITE LAYOUT CONTROL POINTS, AND FROM THE DIMENSIONS AND CENTERLINES SHOWN. THE CONTRACTOR MUST NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PRIVATE OR PUBLIC, PRIOR TO EXCAVATION. THE INFORMATION AND DATA SHOWN IN THESE PLANS WITH RESPECT TO EXISTING UNDERGROUND FACILITIES AT OR CONTIGUOUS TO THE SITE IS APPROXIMATE AND BASED ON INFORMATION FURNISHED BY THE OWNERS OF SUCH UNDERGROUND FACILITIES OR ON PHYSICAL APPURTENANCES OBSERVED IN THE FIELD. THE OWNER AND ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY SUCH INFORMATION OR DATA; AND, THE CONTRACTOR, SHALL HAVE FULL RESPONSIBILITY FOR REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA, FOR LOCATING ALL UNDERGROUND FACILITIES; FOR COORDINATION OF THE WORK WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES DURING CONSTRUCTION, FOR THE SAFETY AND PROTECTION THEREOF, AND REPAIRING ANY DAMAGE THERETO RESULTING FROM THE WORK, NO SEPARATE PAY ITEM.
13. THE CONTRACTOR SHALL CONTACT ALL FRANCHISE UTILITIES AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION SO THAT THE LOCATION OF UNDERGROUND LINES CAN BE MARKED.
14. THE CONTRACTOR SHALL PROTECT ALL EXISTING POWER POLES, SIGNS, MANHOLES, TELEPHONE RISERS, WATER VALVES, ETC. DURING ALL CONSTRUCTION PHASES.
15. CONTRACTOR SHALL EXERCISE CAUTION AND MAINTAIN A CLEAR ZONE OF AT LEAST 6 FEET BETWEEN THE CONTRACTOR'S EQUIPMENT AND ANY POWER LINES.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A TRENCH SAFETY PLAN TO THE CITY AT THE TIME OF THE PRECONSTRUCTION MEETING, OR PRIOR TO BEGINNING CONSTRUCTION OF THESE IMPROVEMENTS. THIS PLAN MUST BE SIGNED BY A PROFESSIONAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH TEXAS STATE LAW AND O.S.H.A. STANDARDS FOR ALL EXCAVATION IN EXCESS OF FIVE FEET IN DEPTH. NO OPEN TRENCHES WILL BE ALLOWED OVERNIGHT WITHOUT THE PRIOR WRITTEN APPROVAL OF THE CITY PUBLIC WORKS DEPARTMENT. ONSITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
17. THE CONTRACTOR SHALL PROTECT ALL PUBLIC AND FRANCHISE UTILITIES DURING THE CONSTRUCTION OF THIS PROJECT. ALL MANHOLES, CLEAN-OUTS, WATER VALVES, FIRE HYDRANTS AND OTHER APPURTENANCES SHALL BE ADJUSTED TO PROPER LINE AND GRADE BEFORE FINAL ACCEPTANCE BY THE CITY.
18. ALL GAS, TELEPHONE, CABLE AND POWER LINES TO BE ADJUSTED SHALL BE ADJUSTED BY OTHERS.
19. THE CONTRACTOR SHALL GIVE THE CITY, RESIDENTS AND BUSINESSES AFFECTED BY ANY ANTICIPATED WATER OR SEWER SERVICE DISRUPTIONS AT LEAST 48 HOURS PRIOR NOTICE.

20. THE CONTRACTOR IS RESPONSIBLE TO PROTECT ALL WATER AND SEWER LINES CROSSING THE PROJECT. THE CONTRACTOR SHALL REPAIR ALL DAMAGED LINES IMMEDIATELY. ALL REPAIRS OF EXISTING WATER MAINS, WATER SERVICES, SEWER MAINS, AND SANITARY SEWER SERVICES ARE SUBSIDIARY TO THE WORK.
21. THE CONTRACTOR SHALL RE-ESTABLISH ANY PROPERTY MARKER, BENCHMARK, ETC. DISTURBED DURING CONSTRUCTION TO ITS ORIGINAL LOCATION AND ELEVATION. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
22. THE CONTRACTOR SHALL COORDINATE WITH THE ROCKWALL PUBLIC WORKS DEPARTMENT A MINIMUM OF 48 HOURS PRIOR TO CUTTING OR CONNECTING TO EXISTING UTILITY LINES. PUBLIC WORKS DEPARTMENT PERSONNEL SHALL DETERMINE THE MOST APPROPRIATE TIME FOR THESE ACTIVITIES TO TAKE PLACE.
23. CONTRACTOR SHALL VERIFY THE ELEVATION, CONFIGURATION AND ANGLULATION OF EXISTING LINES PRIOR TO CONSTRUCTION. SUCH VERIFICATION SHALL BE CONSIDERED AS A SUBSIDIARY COST TO THE PROJECT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE VERTICAL AND HORIZONTAL CONTROL SHOWN ON THE PLANS THROUGHOUT THE PROJECT.
25. THE CONTRACTOR SHALL COORDINATE DRIVEWAY CLOSURES WITH PROPERTY OWNERS PRIOR TO BEGINNING WORK.
26. CONTRACTOR SHALL FIELD LOCATE EXISTING GRAVITY SEWER LINES AND WATER LINES TO BE CONNECTED TO PRIOR TO COMMENCING WORK. IF A DISCREPANCY EXISTS BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
27. CONTRACTOR SHALL SUBMIT TO THE CITY AND ENGINEER A TRAFFIC CONTROL PLAN FOR APPROVAL.
28. ALL BARRICADES, WARNING SIGNS, LIGHTS, DEVICES, ETC. FOR THE GUIDANCE AND PROTECTION OF TRAFFIC AND PEDESTRIANS SHALL CONFORM TO THE INSTALLATION AND LOCATION GUIDELINES SHOWN IN THE LATEST VERSION OF THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), AS CURRENTLY AMENDED, AS PUBLISHED BY THE TEXAS DEPARTMENT OF TRANSPORTATION.
29. CONTRACTOR SHALL KEEP AT LEAST ONE LANE OF TRAFFIC IN EACH DIRECTION OPEN AT ALL TIMES DURING CONSTRUCTION AND ACCESS TO ALL PLACES OF BUSINESS AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE ADEQUATE NOTIFICATION TO ALL PROPERTY OWNERS OF ANY TRENCHING THAT WILL OBSTRUCT PROPERTY ACCESS.
30. BARRICADES AND SIGNS SHALL BE PLACED IN SUCH A MANNER AS NOT TO INTERFERE WITH THE SIGHT DISTANCE OF DRIVERS ENTERING THE ROADWAYS OR SIDE STREETS. TO FACILITATE LANE SHIFTING, BARRICADES AND SIGNS USED IN LANE CLOSURES OR TRAFFIC STAGING MAY BE ERRECTED AND MOUNTED ON PORTABLE SUPPORTS. THE DESIGN OF THESE SUPPORTS SHALL CONFORM TO THE TMUTCD AND ARE SUBJECT TO THE APPROVAL OF THE ENGINEER.
31. THE CONTRACTOR SHALL NOT BE PERMITTED TO HAVE STOCKPILES WITHOUT PERMIT FROM CITY.
32. IF AT ANY TIME DURING CONSTRUCTION, THE CONTRACTOR'S PROPOSED PLAN OF OPERATION FOR HANDLING TRAFFIC DOES NOT PROVIDE FOR SAFE, COMFORTABLE MOVEMENT, THE CONTRACTOR SHALL IMMEDIATELY CHANGE HIS OPERATIONS TO CORRECT THE UNSATISFACTORY CONDITION(S).
33. THE CONTRACTOR SHALL GIVE THE OWNER A MINIMUM OF 5 DAYS NOTICE PRIOR TO THE TIME A STREET SIGN IS TO BE REMOVED DUE TO CONSTRUCTION OPERATIONS. AT NO TIME SHALL THE CONTRACTOR REMOVE OR RELOCATE A STOP OR YIELD SIGN WITHOUT THE APPROVAL OF THE OWNER.
34. TEMPORARY SIGNS WILL BE REQUIRED DURING CONSTRUCTION FOR THE EXISTING SIGNAGE WHICH INTERFERES WITH CONSTRUCTION. THE EXISTING SIGN FACES ON TEMPORARY SUPPORTS MAY BE USED FOR THE TEMPORARY SIGNAGE AS LONG AS THEY ARE REMOVED AND ERRECTED ON TEMPORARY MOUNTS IN THE SAME DAY. THE WARNING AND REGULATORY SIGNS MUST BE IN PLACE AT ALL TIMES AS APPLICABLE. UNLESS OTHERWISE NOTED ON THE PLANS, REMOVAL AND REPLACEMENT OF SIGNAGE, REFLECTORS AND PAVEMENT MARKINGS, SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT COST AND REFLECTED IN THE UNIT BID PRICES FOR THE VARIOUS ITEMS LISTED IN THE PROPOSAL.
35. THE CONTRACTOR SHALL COMMENCE WORK BETWEEN 7:00 A.M. AND 7:00 P.M. MONDAY THROUGH FRIDAY AND BETWEEN 8:00 A.M. AND 7:00 P.M. ON SATURDAY. NO WORK SHALL BE PERFORMED ON SUNDAY. THE CONTRACTOR SHALL ARRANGE HIS WORK SO THAT NO MACHINERY OR EQUIPMENT SHALL BE CLOSER THAN 30 FEET FROM ANY TRAVEL LANES AFTER SUNSET EXCEPT AS AUTHORIZED BY THE OWNER.
36. WHERE THE CONTRACTOR DESIRES TO MOVE EQUIPMENT NOT LICENSED FOR OPERATION ON PUBLIC HIGHWAYS OR ON ACROSS ANY PAVEMENT, HE SHALL PROTECT THE PAVEMENT FROM ALL DAMAGE AS DIRECTED BY THE OWNER.
37. CONTRACTOR SHALL PROVIDE PROTECTION AGAINST EROSION AND STORM WATER POLLUTION AS PER ITEM 3.12 OF THE STANDARD SPECIFICATIONS AND IN ACCORDANCE WITH THE N.C.T.C.O.G.'S GUIDANCE MANUAL ENTITLED STORM WATER QUALITY BEST MANAGEMENT PRACTICES FOR CONSTRUCTION ACTIVITIES - NORTH CENTRAL TEXAS.
38. CONTRACTOR SHALL VERIFY LOCATIONS OF WATER SERVICES AND SANITARY SEWER SERVICES WITH THE CITY OF ROCKWALL PUBLIC WORKS DEPARTMENT PRIOR TO CONSTRUCTION.
39. THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY DAMAGE TO PRIVATE PROPERTY, INCLUDING, BUT NOT LIMITED TO, FENCES, WALLS, PAVEMENT, GRASS, AND TREES, AT NO ADDITIONAL COST TO THE OWNER. THIS WORK SHALL BE SUBSIDIARY TO THE COST OF THE CONTRACT UNLESS OTHERWISE NOTED.
40. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL MAILBOXES, SIGNS, UTILITY POLES, SPRINKLER SYSTEMS, DRIVEWAY CULVERTS, ETC. DURING CONSTRUCTION.

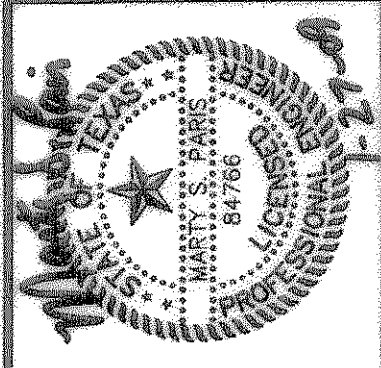
FORCE MAIN NOTES

41. ALL DITCHES AND SWALES DISTURBED DURING CONSTRUCTION SHALL IMMEDIATELY BE RESTORED TO ORIGINAL GRADE AND CROSS SECTION. PROPER DRAINAGE SHALL BE MAINTAINED AT ALL TIMES.
42. THE CONTRACTOR SHALL REVEGETATE UNPAVED AREAS DISTURBED BY CONSTRUCTION PRIOR TO ACCEPTANCE OF THE PROJECT. REVEGETATION SHALL CONSIST OF SEED SOWING, STRAW MULCHING, FERTILIZING AND WATERING. REVEGETATION SHALL BE ACCEPTABLE WHEN VEGETATION ACHIEVES ONE (1) INCH IN HEIGHT, WITH 85% COVERAGE AND NO GREATER THAN 10 SQUARE FEET BARE.
43. CONTRACTOR SHALL COORDINATE WITH TESTING FIRM FOR SCHEDULING OF TESTS AND SHALL NOTIFY THE CITY OF ROCKWALL AND TESTING FIRM A MINIMUM OF 24 HOURS PRIOR TO TESTING PERIOD.
44. THE CONTRACTOR SHALL COORDINATE WITH THE OWNERS OF UTILITIES (EXISTING AND PROPOSED) WHICH MUST BE CROSSED BY THE PROPOSED SEWER LINE PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL ENSURE THAT THE REQUIRED VERTICAL SEPARATION DISTANCES ARE MAINTAINED.
45. CONTRACTOR SHALL PROVIDE TEMPORARY WATER AND SANITARY SEWER SERVICE IN THE EVENT THAT NORMAL SERVICE WILL BE DISRUPTED DUE TO THE PROPOSED SEQUENCE OF CONSTRUCTION. TEMPORARY WATER AND SANITARY SERVICE ALONG WITH SANITARY SEWER BYPASS PUMPING SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF THE PROJECT.
46. WORK WITHIN ALL DEFINED CHANNELS SHALL BE DETAILED IN THE CONTRACTOR'S SUBMITTED STORMWATER POLLUTION PREVENTION PLAN.
47. CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH N.C.T.C.O.G. 3RD EDITION STANDARD DETAILS AND THE CITY OF ROCKWALL STANDARD DETAILS.
48. 4" FORCE MAIN PIPE SHALL BE POLYVINYL CHLORIDE PIPE IN ACCORDANCE WITH AWWA C900 (DR-14).
49. ALL BURIED DUCTILE IRON FITTINGS SHALL BE MECHANICAL JOINT UNLESS OTHERWISE NOTED ON THE PLANS, AND SHALL BE POLY-WRAPPED. ALL MJ FITTINGS SHALL BE RESTRAINED WITH EBAA IRON MEGALUG FITTINGS (TYPE 2000 PV) OR APPROVED EQUAL.
50. CONCRETE THRUST BLOCKING SHALL BE USED AT ALL HORIZONTAL AND VERTICAL BENDS, TEES, AND WYES.
51. THE CONTRACTOR SHALL INSTALL A FULL JOINT OF PIPE ON BOTH SIDES OF ALL FITTINGS WHERE POSSIBLE.
52. DENSITY TESTS SHALL BE PERFORMED IN ACCORDANCE WITH N.C.T.C.O.G. TECHNICAL SPECIFICATION 6.2.9 AND THE CITY OF ROCKWALL STANDARDS.
53. COMBINATION AIR RELEASE VALVES SHALL BE VENT-O-MAT MODEL NO. 060 RGX 1021.
54. FORCE MAIN PIPE SHALL BE GREEN IN COLOR.

SANITARY SEWER NOTES

55. SANITARY SEWER SERVICE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AT ALL TIMES.
56. AT LOCATIONS WHERE PROPOSED SANITARY SEWER LINES WILL BE INSTALLED BENEATH PROPOSED WATER LINES THE SANITARY SEWER LINE SHALL BE EMBEDDED IN CEMENT STABILIZED SAND (TWO OR MORE BAGS OF CEMENT PER CUBIC YARD OF SAND) FOR THE TOTAL LENGTH OF ONE PIPE SEGMENT PLUS 12" BEYOND EACH JOINT. REFERENCE TCEO CHAPTER 290.44. THIS COST SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF THE SANITARY SEWER PIPE INSTALLATION.
57. SANITARY SEWER PIPE SHALL BE SDR-26, AS IDENTIFIED ON THE PLANS, IN ACCORDANCE WITH N.C.T.C.O.G. 3RD EDITION TECHNICAL SPECIFICATION 2.12.14.
58. ALL SANITARY SEWER MANHOLES SHALL BE CONSTRUCTED TO THE GRADES SHOWN ON THE PLANS. IN LOCATIONS WHERE FINAL RIM ELEVATION IS LOWER THAN EXISTING GRADE, CONTRACTOR SHALL TAPER GRADE AWAY FROM MANHOLE NOT TO EXCEED 10% TO MATCH EXISTING GRADE AND SEAL THE MANHOLE.
59. ALL SANITARY SEWER MANHOLE COVERS SHALL BE PROVIDED WITH PICK SLOTS. NO PICK HOLE COVERS WILL BE ACCEPTED.
60. ALL MANHOLES LOCATED OUTSIDE OF PAVEMENT SHALL EXTEND A MINIMUM OF 4 INCHES AND A MAXIMUM OF 6 INCHES ABOVE THE FINAL GRADE.
61. SANITARY SEWER TESTING SHALL BE IN ACCORDANCE WITH N.C.T.C.O.G. 3RD EDITION TECHNICAL SPECIFICATION 6.7.2(f) AND 6.7.2(g) FOR LOW PRESSURE TESTING AND DEFLECTION TESTING, RESPECTIVELY.
62. IN ADDITION TO SANITARY SEWER TESTING REQUIREMENTS CALLED FOR IN THE TECHNICAL SPECIFICATIONS, CONTRACTOR SHALL PERFORM VISUAL INSPECTION BY PHOTOGRAPHIC MEANS ON ALL PROPOSED SANITARY SEWER MAINS. CONTRACTOR SHALL PROVIDE THE CITY OF ROCKWALL PUBLIC WORKS DEPARTMENT A COMPLETE SET ON VIDEO TAPES WITH LINE NAME, STATIONING, AND SERVICE LOCATIONS CLEARLY IDENTIFIED.
63. BYPASS PUMPING SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF ALL SANITARY SEWER IMPROVEMENTS.

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North Lakeshore
Valley Lift Station
Rockwall, TX

LIFT STATION
GENERAL NOTES

RECORD DRAWING
THIS RECORD DRAWING HEREIN REFLECTS TO THE BEST OF THE DESIGN ENGINEER'S KNOWLEDGE, THE APPROXIMATE LOCATION OF THE CONSTRUCTED WORK, USING INFORMATION AS PROVIDED BY THE CONTRACTORS.

DATE:	JANUARY, 2009
DESIGN:	TLS
DRAWN:	TLS
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KHA NO.:	068237002

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