

GENERAL NOTES

GENERAL REQUIREMENTS

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST EDITION; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST EDITION; ANY OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL APPLICABLE LOCAL CITY CODES AND ORDINANCES.
2. THE CONTRACTOR SHALL EXAMINE THE DRAWINGS BEFORE PROCEEDING WITH WORK. HE SHALL INFORM THE ENGINEER OF ANY OMISSIONS OR CONFLICTS DISCOVERED BEFORE PROCEEDING WITH ANY AFFECTED WORK.
3. PRECAUTIONS SHALL BE TAKEN TO PROTECT THE DESERT TORTOISE AND OTHER PROTECTED WILDLIFE AS PRESCRIBED IN THE SPECIFICATIONS AND REQUIRED BY THE U.S. FISH AND WILDLIFE SERVICE.
4. AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION ON THE HOUSINGS AND STRUCTURES FOR THE WEATHER MONITORING EQUIPMENT CONTACT DAN HITCH, U.S.G.S., 1500 E. TROPICANA AVENUE, SUITE 201, LAS VEGAS, NEVADA 89119 - TELEPHONE: (702) 295-1770, AND TIMOTHY SUTKO, C.C.R.F.D., 301 E. CLARK, SUITE 300, LAS VEGAS, NEVADA, 89101 - TELEPHONE: (702) 455-3139.
5. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE APPROXIMATE AND ARE OBTAINED FROM EXISTING PLANS AND INFORMATION PROVIDED BY THE RESPECTIVE UTILITY PROVIDERS. THE ENGINEER ASSUMES NO LIABILITY FOR THEIR ACCURACY OR FOR ANY UTILITIES NOT SHOWN ON THE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT ON RECORD OR NOT SHOWN ON THESE DRAWINGS. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS.
6. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED SATISFACTORY TO THE OWNER AT THE EXPENSE OF THE CONTRACTOR.
7. THE CONTRACTOR SHALL NOT BACKFILL ANY TRENCHES IN WHICH WATER LINES HAVE BEEN UNCOVERED UNTIL THE WATER LINES HAVE BEEN INSPECTED BY THE LAS VEGAS VALLEY WATER DISTRICT. THE WATER DISTRICT SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF CONSTRUCTION IN THE VICINITY OF WATER LINES.
8. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY ALTERATIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
9. TYPE V CEMENT SHALL BE USED IN ALL ON-SITE CONCRETE WORK. MIX DESIGN TO BE APPROVED BY THE ENGINEER PRIOR TO USE ON THE PROJECT.
10. THE CONTRACTOR SHALL, AT HIS EXPENSE, LOCATE ALL OVERHEAD INTERFERENCES WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD OR UNDERGROUND POWER AND/OR TELEPHONE FACILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COSTS AND LIABILITY IN CONNECTION THEREWITH.
11. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION AT HIS EXPENSE.
12. AC PAVEMENT TO BE 1/2" ABOVE LIP OF ALL GUTTERS & VALLEY GUTTERS AFTER COMPACTION.
13. APPLY FOG SEAL ONLY AFTER ALL CORRECTIONS AND ADJUSTMENT HAVE BEEN MADE.
14. CURB & GUTTER WITH A GRADE OF LESS THAN FOUR TENTHS OF ONE PERCENT SHALL BE CONSTRUCTED BY FORMING. EACH JOINT SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION.
15. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF TRANSITIONS TO BE AS SHOWN ON PLANS, OR AS DESIGNATED IN THE FIELD BY A CITY INSPECTOR.
16. EXACT LOCATION OF ALL SAW CUT LINES MAY BE DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS INSPECTOR IF LOCATION ON THE PLAN IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITIONS REQUIRES RELOCATION.
17. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.550.
18. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC. SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND VALLEY GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY.
19. ALL UTILITY COMPANIES SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 48 (FORTY-EIGHT) HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THE WORK WITH ALL OF THE UTILITY COMPANIES SO AS TO AVOID DELAYS OR DISRUPTIONS OF THE WORK.
20. THE SOUTHWEST GAS COMPANY SHALL BE RESPONSIBLE FOR THE REMOVAL AND RELOCATION OF ALL GAS LINES AND APPURTENANCES THAT INTERFERE WITH THE REQUIRED IMPROVEMENTS AS SHOWN ON THE CONTRACT DRAWINGS.
21. THE CENTRAL TELEPHONE COMPANY SHALL BE RESPONSIBLE FOR THE REMOVAL AND RELOCATION OF ALL TELEPHONE LINES AND APPURTENANCES THAT INTERFERE WITH THE REQUIRED IMPROVEMENTS AS SHOWN ON THE CONTRACT DRAWINGS.
22. THE NEVADA POWER COMPANY SHALL BE RESPONSIBLE FOR THE REMOVAL AND RELOCATION OF POWER LINES AND APPURTENANCES THAT INTERFERE WITH THE REQUIRED IMPROVEMENTS AS SHOWN ON THE CONTRACT DRAWINGS.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADJUSTMENT OR RELOCATION OF ALL LAS VEGAS VALLEY WATER DISTRICT FACILITIES AS INDICATED ON THE CONTRACT DRAWINGS OR IN THE SPECIAL PROVISIONS.

24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADJUSTMENTS OR RELOCATION OF ALL EXISTING CITY OF LAS VEGAS SEWER MANHOLES AND PIPING AS INDICATED ON THE CONTRACT DRAWINGS OR IN THE SPECIAL PROVISIONS.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES AND EXISTING STRUCTURES DURING CONSTRUCTION.
26. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE CITY OF LAS VEGAS FOR DISPOSAL SITES AND HAUL ROUTES.
27. CONTRACTOR TO NOTIFY PROPERTY OWNERS 24 HOURS PRIOR TO INTERUPTION OF WATER SERVICE. INTERUPTION OF SERVICE SHALL ONLY OCCUR WITH THE APPROVAL OF LAS VEGAS VALLEY WATER DISTRICT.
28. THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING CONSTRUCTION AND TEMPORARY EASEMENTS OUTSIDE OF THE EXISTING RIGHT-OF-WAY FOR THE CONSTRUCTION OF THIS JOB.
29. ALL BARRICADING AND TEMPORARY TRAFFIC CONTROL DEVICES OR METHODS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, 1988" AND "STATE OF NEVADA TRAFFIC CONTROL MANUAL", DATED 1980 AND "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", 1988 EDITION, AND THE NEVADA DEPARTMENT OF TRANSPORTATION REGULATIONS.

WATER NOTES

LAS VEGAS VALLEY WATER DISTRICT NOTES

1. NO WORK SHALL BEGIN ON WATER PLANS UNTIL THEY HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING APPROVAL OF THE PLANS, NOTICE SHALL BE GIVEN TO THE LVVWD CUSTOMER SERVICE DEPARTMENT (870-4194) 48 HOURS PRIOR TO ACTUAL CONSTRUCTION, AND 24 HOURS PRIOR TO INSPECTION.
2. CALL BEFORE YOU DIG 1-800-227-2600.
3. ALL WORK SHALL CONFORM TO LVVWD LATEST STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS.
4. ALL WORK, EXCEPT AS MODIFIED HEREON OR BY NOTE 3, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR ADDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS, CLARK COUNTY AREA.
5. DISTRICT APPROVED SERVICE SADDLES OR TAPPED COLLARS SHALL BE REQUIRED ON ALL 3/4" AND 1" SERVICE LATERALS. SERVICE SADDLES ONLY SHALL BE PERMITTED ON 1-1/2" AND 2" SERVICE LATERALS. DOUBLE TAPPED COLLARS ARE NOT PERMITTED.
6. COPPER SERVICE LATERALS: ALL 3/4" TO 2" SERVICE LATERALS SHALL BE OF COPPER TUBING IN ACCORDANCE WITH THE DISTRICT'S SPECIFICATIONS AND STANDARD PLATES.
7. THE MAXIMUM ALLOWABLE JOINT DEFLECTION FOR ACP AND DUCTILE IRON PIPE SHALL BE AS FOLLOWS:
- | PIPE SIZES | ACP | DUCTILE IRON SLIP JOINT | DUCTILE IRON MECHANICAL JOINT |
|--------------|-------------|-------------------------|-------------------------------|
| 6 INCH | 2.5 DEGREES | 2.5 DEGREES | 3.5 DEGREES |
| 8 - 12 INCH | 2.5 DEGREES | 2.5 DEGREES | 2.5 DEGREES |
| 14 - 16 INCH | 2 DEGREES | 1.5 DEGREES | 1.5 DEGREES |
| 18 - 24 INCH | N/A | 1.5 DEGREES | 1.5 DEGREES |

ON PVC PIPE, THE MAXIMUM OFFSET FOR A 20' LENGTH OF FACTORY BELLED PIPE SHALL BE 16 INCHES FOR 6" PIPE, 12 INCHES FOR 8" PIPE, AND 9 INCHES FOR 10" AND 12" PIPE.

IF THESE OFFSETS CONFLICT WITH THE PIPE MANUFACTURERS RECOMMENDATION, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

8. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
9. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS AND VALLEY GUTTERS.
10. DETECTOR TAPE SHALL BE REQUIRED IN ACCORDANCE WITH STANDARD PLATE NO. 27 WHERE INDICATED, AND AS FOLLOWS:
A. OVER ALL MAINS NOT INSTALLED 6 FEET FROM BACK OF CURB.
B. OVER ALL SERVICE LATERALS NOT INSTALLED AT RIGHT ANGLES TO MAIN.
11. ALL WATER MAINS SHALL BE PRESSURE TESTED AT 200 P.S.I. FOR A CONTINUOUS TWO HOUR PERIOD, IN ACCORDANCE WITH DISTRICT STANDARDS.
12. ALL WATER MAINS SHALL BE DISINFECTED, FLUSHED, AND AN ACCEPTABLE HEALTH SAMPLE OBTAINED, PRIOR TO THE CONNECTION OF THE WATER MAIN(S) AND/OR LATERAL(S) TO THE DISTRICTS' SYSTEM.
13. CONTRACTOR TO OBTAIN ALL METERS 2" AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 FORTY-EIGHT (48) HOURS PRIOR TO PICKUP.
14. ALL VALVES TO BE ABANDONED SHALL BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP 12 INCHES OF THE VALVE BOX AND THEN FILLING THE REMAINING PORTION OF THE VALVE BOX WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST 2,000 PSI. THE CONTRACTOR SHALL CUT THE EXISTING PIPE 3'± BEYOND THE ABANDONED VALVE AND INSTALL A CAP. WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATIONS, THE INSTALLATION OF A PLUG MAY BE PERMITTED, WITH DISTRICT APPROVAL. THE CONTRACTOR SHALL INSTALL A CONCRETE THRUST BLOCK IN ACCORDANCE WITH THE PROVISIONS OF THE DISTRICT'S STANDARD PLATE NO. 5 AT ALL CAP OR PLUG LOCATIONS.
15. ALL SERVICE LATERALS 2" AND SMALLER MAY BE EXTENDED PROVIDED THE FOLLOWING CRITERIA IS MET:
A. LATERAL CAN ONLY BE EXTENDED IF CONNECTING TO COPPER.
B. LATERAL MUST BE INSTALLED AT 90 DEGREES TO MAIN.
C. USE ONLY DISTRICT APPROVED CONNECTIONS.

1276 JB 2.16.92
LVVWD DATE

SEWER NOTES

CITY OF LAS VEGAS SANITARY SEWER NOTES

1. ALL SANITARY SEWER INSTALLATIONS SHALL CONFORM TO THE STANDARD DETAILS AND SPECIFICATIONS OF THE CITY OF LAS VEGAS, AND SHALL ALSO CONFORM TO "THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OF OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA LATEST EDITION," UNLESS OTHERWISE NOTED.
2. CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
3. POLYVINYL CHLORIDE (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, AND INSTALLED WITH SAND BEDDING AND BACKFILL OR TYPE II GRAVEL.
4. ALL MANHOLES IN PAVED STREETS 80' R/W AND LARGER, SHALL HAVE CONCRETE COLLARS.
5. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO 12" DIAMETER SIZE. CONNECTIONS TO 15" OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES.
6. A SEWER MAIN CROSSING OVER A WATER MAIN OR LESS THAN 18" UNDER A WATER MAIN MUST BE REINFORCED CONCRETE ENCASED PIPE FOR A DISTANCE NOT LESS THAN TEN FEET (10) TO EACH SIDE OF THE CENTERLINE OF THE WATER MAIN.

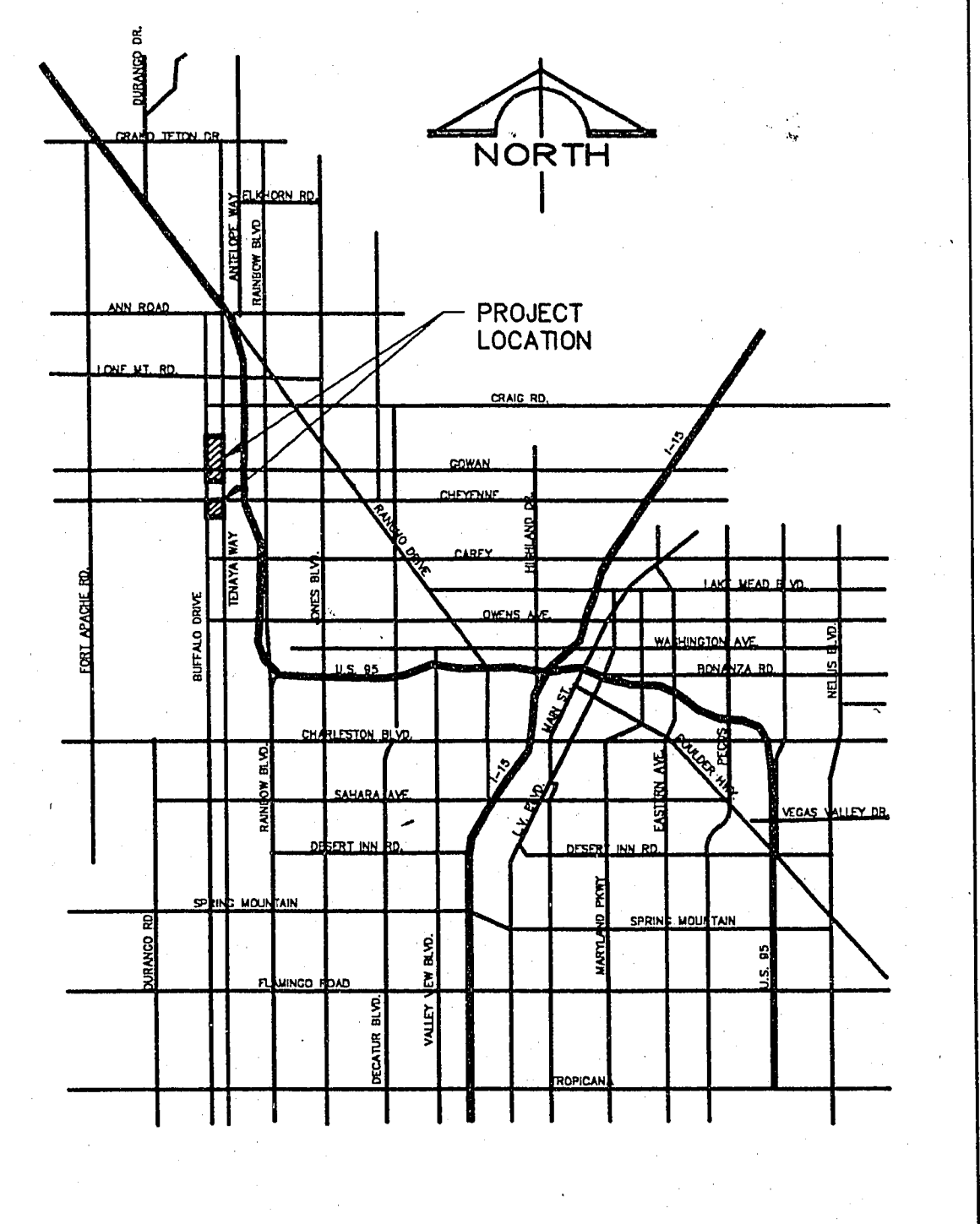
SHEET INDEX

CA-1	COVER SHEET	CH-1	PLAN & PROFILE - 72" OUTFALL PIPE	LP-1	PLANTING PLAN - NORTH BASIN
CA-2	GENERAL NOTES, LEGEND	CH-2	PLAN & PROFILE - 72" OUTFALL PIPE	LP-2	PLANTING PLAN - NORTH BASIN
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CG-2	PARTIAL GRADING PLAN - NORTH BASIN	CJ-4	DETAILS	LP-8	PLANTING DETAILS
CG-3	PARTIAL GRADING PLAN - NORTH BASIN	CJ-5	DETAILS	LI-1	IRRIGATION PLAN - NORTH BASIN
CG-4	PARTIAL GRADING PLAN - NORTH BASIN	CJ-6	STILLING WELL & DETAILS	LI-2	IRRIGATION PLAN - NORTH BASIN
CG-5	PARTIAL GRADING PLAN - NORTH BASIN	CJ-7	DETAILS	LI-3	IRRIGATION PLAN - NORTH BASIN
CG-6	PARTIAL GRADING PLAN - NORTH BASIN	CJ-8	DETAILS	LI-4	IRRIGATION PLAN - NORTH BASIN
CG-7	PARTIAL GRADING PLAN - NORTH BASIN	CJ-9	DETAILS	LI-5	IRRIGATION PLAN - NORTH BASIN
CG-8	PARTIAL GRADING PLAN - NORTH BASIN	CL-1	PARTIAL SPILLWAY PLAN - NORTH BASIN	LI-6	IRRIGATION PLAN - SOUTH BASIN
CG-9	PARTIAL GRADING PLAN - NORTH BASIN	CL-2	PARTIAL SPILLWAY PLAN - NORTH BASIN	LI-6.1	IRRIGATION PLAN - NORTH BASIN
CG-10	PARTIAL GRADING PLAN - NORTH BASIN	CL-3	PARTIAL SPILLWAY PLAN - NORTH BASIN	LI-6.2	IRRIGATION PLAN - NORTH BASIN
CG-11	PARTIAL GRADING PLAN - SOUTH BASIN	CL-4	PARTIAL SPILLWAY PLAN - NORTH BASIN	LI-6.3	IRRIGATION PLAN - SOUTH BASIN
CG-12	PARTIAL GRADING PLAN - SOUTH BASIN	CN-1	BERM CROSS SECTION - NORTH BASIN	LI-7	IRRIGATION PLAN - SOUTH BASIN
CG-13	PARTIAL GRADING PLAN - SOUTH BASIN	CN-2	BERM CROSS SECTION - SOUTH BASIN	LI-8	IRRIGATION DETAILS
CG-14	PARTIAL GRADING PLAN - SOUTH BASIN	CN-3	CROSS SECTION - SPILLWAY		
CG-15	PARTIAL GRADING PLAN - SOUTH BASIN	CN-4	CROSS SECTION - SPILLWAY		
CG-16	PARTIAL GRADING PLAN - SOUTH BASIN	CN-5	SPILLWAY DETAILS		
CG-17	PARTIAL GRADING PLAN - SOUTH BASIN	CN-6	CROSS SECTION - SPILLWAY		
CG-18	PARTIAL GRADING PLAN - SOUTH BASIN	CN-7	SPILLWAY DETAILS		
CG-19	PARTIAL GRADING PLAN - SOUTH BASIN				
CG-20	PARTIAL GRADING PLAN - SOUTH BASIN				
CG-21	PARTIAL GRADING PLAN - SOUTH BASIN	CQ-1	FENCING PLAN - NORTH BASIN		
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LEGEND

○ M.H.	EXISTING MANHOLE
△ F.H.	EXISTING FIRE HYDRANT
—	EXISTING SIGN
— P.P. —	EXISTING POWER POLE
— W —	EXISTING WATER LINE
— G —	EXISTING GAS LINE
— EOH —	EXISTING OVERHEAD ELECTRICAL LINE
— SS —	EXISTING SANITARY SEWER LINE
— SD —	EXISTING STORM DRAIN LINE
— T —	EXISTING UNDERGROUND TELEPHONE
— EUG —	EXIST. UNDERGROUND ELECTRICAL
— XX —	EXISTING CONTOUR
— X —	EXISTING CHAIN-LINK FENCE
— (XX.XX) —	EXISTING ELEVATION
—	CENTERLINE
—	EDGE OF EXISTING PAVEMENT
—	PROPERTY LINE OR RIGHT-OF-WAY
● M.H.	PROPOSED MANHOLE
— W —	PROPOSED WATER LINE
— SS —	PROPOSED SANITARY SEWER LINE
— SD —	PROPOSED STORM DRAIN LINE
— XX.XX —	PROPOSED ELEVATION

VICINITY MAP



GENERAL NOTES

GOWAN
DETENTION BASINS

JOB NUMBER 90001
DESIGNED BY WH/TP
DRAWN BY PA
CHECKED BY WH/TP
DATE 1-17-92
SHEET NUMBER CA-2
2 of 80

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