

NOTE TO CONTRACTOR REGARDING FINISHED GRADES:
IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ADJUST THE CONCRETE INLET APRON AND/OR GRATE TO THE FINISHED GROUND SURFACE OR THE FINISHED GRADE OF THE ROADWAY SURFACE (WHICHEVER IS APPLICABLE) IF THE APRON AND/OR GRATE IS CONSTRUCTED PRIOR TO FINALIZING THE FINISHED GRADE, AND THE APRON EDGES AND CORNERS AND/OR GRATE IS BEYOND 0.02' VERTICAL TOLERANCE TO THE FINISHED GRADE. THE CONTRACTOR SHALL REMOVE AND REPLACE THE APRONS AND/OR GRATE AT HIS OWN EXPENSE TO WITHIN THIS TOLERANCE IF THIS CONDITION OCCURS.

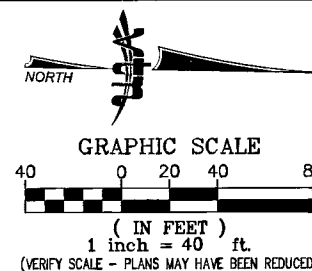
REMOVAL NOTES

- 1 REMOVE 141 L.F. ± EXISTING 18" RCP
- 2 REMOVE EXISTING MANHOLE
- 3 REMOVE 19 L.F. ± EXISTING 12" RCP
- 4 REMOVE 43 L.F. ± EXISTING 12" RCP (ABANDONED)
- 5 REMOVE 52 L.F. ± EXISTING 24" RCP
- 6 REMOVE EXISTING MANHOLE
- 7 REMOVE 225 L.F. ± EXISTING 12" RCP
- 8 REMOVE EXISTING MANHOLE
- 9 REMOVE 230 L.F. ± EXISTING 12" RCP
- 10 REMOVE EXISTING MANHOLE
- 11 REMOVE 204 L.F. ± EXISTING 12" RCP
- 12 REMOVE EXISTING MANHOLE
- 13 REMOVE 52 L.F. ± EXISTING 12" RCP

CLOSED, DO NOT OPEN

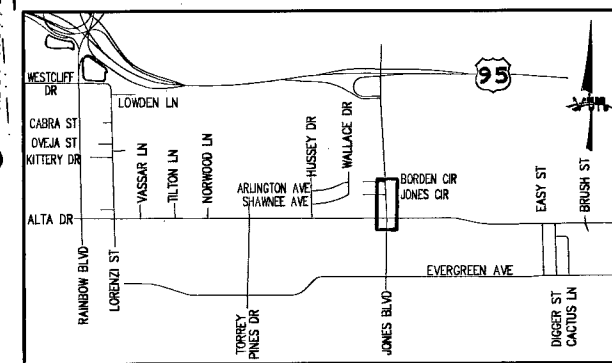
CONSTRUCTION NOTES

- 11.1 "JB" 20+99.00, 1.7' ± RT. INSTALL 5.35 L.F. 18" RCP CONNECT TO EXISTING 12" RCP WITH CONCRETE COLLAR CONNECT 18" RCP TO MANHOLE SEE SHEET D4
- 11.2 "JB" 20+99.00, 9.00' RT. CONSTRUCT NDOT TYPE 1 MANHOLE (PER USDOCA STD. DWG. NO. 403) CONNECT TO RCB
- 11.3 "JB" 21+18.00, 10.00' RT. CONSTRUCT MODIFIED NDOT TYPE 4 MANHOLE INSTALL 67.09 L.F. 6"x4" RCB SEE MANHOLE DETAIL #1 ON SHEET D8
- 11.4 "JB" 21+75.1±, 45.7' ± RT. CONSTRUCT MODIFIED NDOT TYPE 4 MANHOLE CONNECT TO EXISTING 60" RCP SEE MANHOLE DETAIL #2 ON SHEET S14
- 11.5 "JB" 21+78.0±, 12.0' ± LT. CONSTRUCT NDOT TYPE 2 MANHOLE (PER NDOT STD. DWG. NO. R-4.3.2) CONNECT TO EXISTING 60" RCP
- 11.6 "JB" 22+30.00, 12.00' LT. CONSTRUCT NDOT TYPE 2 MODIFIED MANHOLE (PER NDOT STD. DWG. NO. R-4.3.1) CONNECT EXISTING 12" SD TO MANHOLE INSTALL 52.01 L.F. 24"x38" HERCP
- 11.7 "JB" 26+83.00, 12.00' LT. CONSTRUCT NDOT TYPE 1 MODIFIED MANHOLE (PER USDOCA STD. DWG. NO. 403) CONNECT EXISTING 12" SD TO MANHOLE INSTALL 453.00 L.F. 24"x38" HERCP
- 11.8 "JB" 28+85.36, 12.00' LT. "BC" 9+88.54, 12.00' RT. CONSTRUCT NDOT TYPE 2 MODIFIED MANHOLE (PER NDOT STD. DWG. NO. R-4.3.1) INSTALL 202.36 L.F. 24"x38" HERCP
- 11.9 "JB" 19+50.00, 10.00' RT. TO "JB" 21+18.00, 10.00' RT. INSTALL 168.00 L.F. 6"x4" RCB

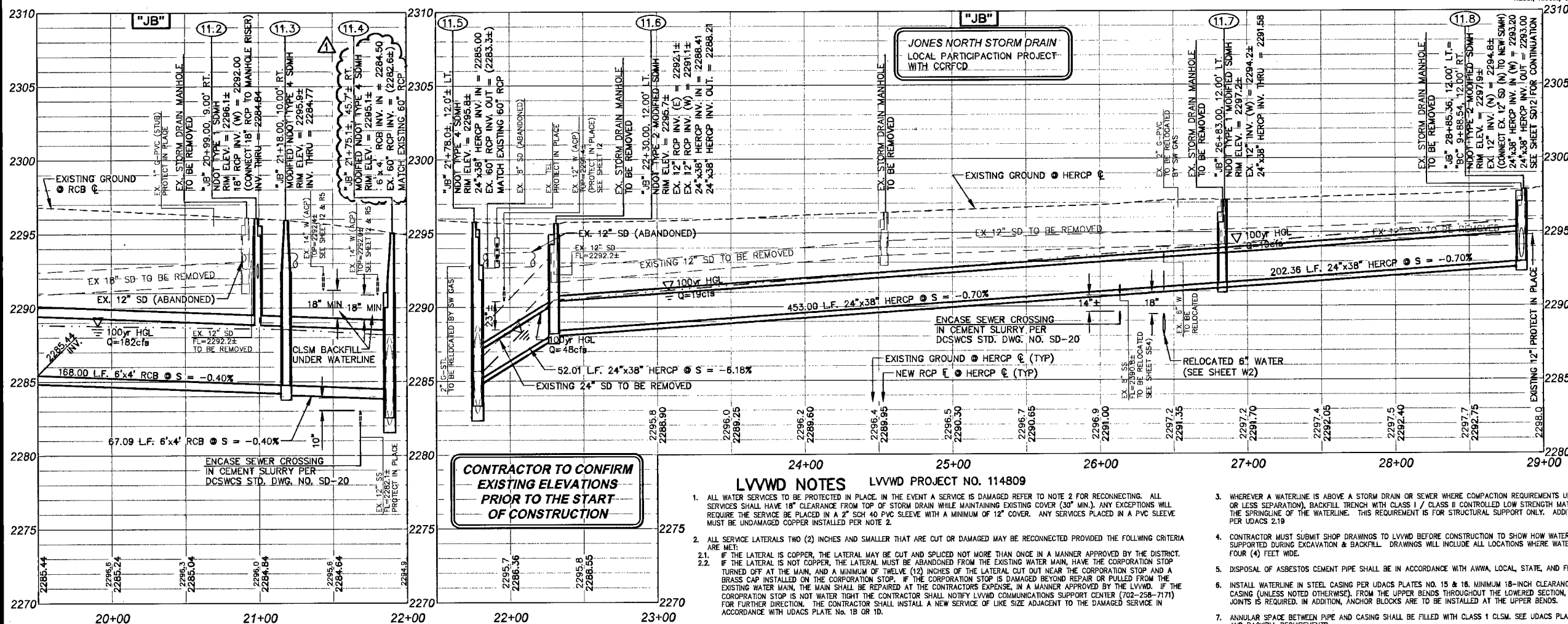


SHEET NOTES

1. REFER TO SHEETS R1 TO R8 FOR ROADWAY & UTILITY PLANS.
2. ALL PIPE SHALL BE CLASS III STORM DRAIN UNLESS NOTED OTHERWISE.



KEY MAP
T.20S, R.60E, SECTIONS 35 & 36



CONTRACTOR TO CONFIRM EXISTING ELEVATIONS PRIOR TO THE START OF CONSTRUCTION

LVWD NOTES LVWD PROJECT NO. 114809

1. ALL WATER SERVICES TO BE PROTECTED IN PLACE. IN THE EVENT A SERVICE IS DAMAGED REFER TO NOTE 2 FOR RECONNECTING. ALL SERVICES SHALL HAVE 18" CLEARANCE FROM TOP OF STORM DRAIN WHILE MAINTAINING EXISTING COVER (30" MIN.). ANY EXCEPTIONS WILL REQUIRE THE SERVICE BE PLACED IN A 2" SCH 40 PVC SLEEVE WITH A MINIMUM OF 12" COVER. ANY SERVICES PLACED IN A PVC SLEEVE MUST BE UNDAMAGED COPPER INSTALLED PER NOTE 2.
2. ALL SERVICE LATERALS TWO (2) INCHES AND SMALLER THAT ARE CUT OR DAMAGED MAY BE RECONNECTED PROVIDED THE FOLLOWING CRITERIA ARE MET:
 - 2.1. IF THE LATERAL IS COPPER, THE LATERAL MAY BE CUT AND SPLICED NOT MORE THAN ONCE IN A MANNER APPROVED BY THE DISTRICT.
 - 2.2. IF THE LATERAL IS NOT COPPER, THE LATERAL MUST BE ABANDONED FROM THE EXISTING WATER MAIN, HAVE THE CORPORATION STOP TURNED OFF AT THE MAIN, AND A MINIMUM OF TWELVE (12) INCHES OF THE LATERAL CUT OUT NEAR THE CORPORATION STOP AND A BRASS CAP INSTALLED ON THE CORPORATION STOP. IF THE CORPORATION STOP IS DAMAGED BEYOND REPAIR OR PULLED FROM THE EXISTING WATER MAIN, THE MAIN SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE, IN A MANNER APPROVED BY THE LVWD. IF THE CORPORATION STOP IS NOT WATER TIGHT THE CONTRACTOR SHALL NOTIFY LVWD COMMUNICATIONS CENTER (702-258-7171) FOR FURTHER DIRECTION. THE CONTRACTOR SHALL INSTALL A NEW SERVICE OF LIKE SIZE ADJACENT TO THE DAMAGED SERVICE IN ACCORDANCE WITH UDACS PLATE NO. 1B OR 1D.
3. WHEREVER A WATERLINE IS ABOVE A STORM DRAIN OR SEWER WHERE COMPACTION REQUIREMENTS UNDER A WATERLINE CANNOT BE MET (30" OR LESS SEPARATION), BACKFILL TRENCH WITH CLASS I / CLASS II CONTROLLED LOW STRENGTH MATERIAL (CLSM) WITH BOND BREAKER TO THE SPRINGLINE OF THE WATERLINE. THIS REQUIREMENT IS FOR STRUCTURAL SUPPORT ONLY. ADDITIONAL HEALTH REGULATIONS MAY APPLY PER UDACS 2.19.
4. CONTRACTOR MUST SUBMIT SHOP DRAWINGS TO LVWD BEFORE CONSTRUCTION TO SHOW HOW WATERLINES SPANNING A TRENCH WILL BE SUPPORTED DURING EXCAVATION & BACKFILL. DRAWINGS WILL INCLUDE ALL LOCATIONS WHERE WATERLINES SPAN A TRENCH GREATER THAN FOUR (4) FEET WIDE.
5. DISPOSAL OF ASBESTOS CEMENT PIPE SHALL BE IN ACCORDANCE WITH AWWA, LOCAL, STATE, AND FEDERAL REGULATIONS.
6. INSTALL WATERLINE IN STEEL CASING PER UDACS PLATES NO. 15 & 16. MINIMUM 18-INCH CLEARANCES REQUIRED ABOVE THE TOP OF THE CASING (UNLESS NOTED OTHERWISE). FROM THE UPPER BENDS THROUGHOUT THE LOWERED SECTION, DUCTILE IRON PIPE WITH RESTRAINED JOINTS IS REQUIRED. IN ADDITION, ANCHOR BLOCKS ARE TO BE INSTALLED AT THE UPPER BENDS.
7. ANNUAL SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH CLASS 1 CLSM. SEE UDACS PLATES 6A, 6B, 6C, 6D & 6E FOR BEDDING AND BACKFILL REQUIREMENTS.

CONTRACTOR TO VERIFY ALL EXISTING UTILITY LOCATIONS BOTH HORIZONTALLY & VERTICALLY PRIOR TO COMMENCEMENT OF CONSTRUCTION

APPROVED
Las Vegas Valley Water District
Project #114809
Date 11-12-08

Call before you Dig
1-702-227-2929
NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT
1-800-227-3000
1-702-456-7544

DEPARTMENT OF PUBLIC WORKS
2777 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89146-5148
PH: (702) 673-7550
FAX: (702) 673-7550
WEB SITE: WWW.VNVPV.COM

STORM DRAIN PLAN & PROFILE
JONES BOULEVARD
"JB" 19+50.00 TO "JB" 29+00.00
MEADOWS ALTA PARALLEL PROJECT
PHASE II

DRAWN BY: WBM
DESIGNED BY: JIN
CHECKED BY: JNS
PROJECT NO: 114809
SCALE: HORIZ. 1"=40' VERT. 1"=4'
SHEET SD11
23 OF 170 SHEETS
DRAWING NO: 327V281
H#11545

PROFESSIONAL ENGINEER STATE OF NEVADA
JEFFREY N. GRIEST
EXP. 06-30-08
No. 17158