ENERAL

CONSTRUCTION

Ю

### OLFAX COUNTY, STATE OF NEW MEXICO THE VILLAGE OF CIMARRON TUNE 2008

# WATER SYSTEM IMPROVEMENTS

## ALL MATERIALS AND WORKMANSHIP SHALL BE IN COMPLIANCE WITH THE CONSTRUCTION SPECIFICATIONS MANUAL, AND THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

NOLTE ASSOCIATES ASSUMES NO RESPONSIBILITY FOR UTILITY LOCATIONS. UTILITIES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION WHICH IN NO WAY IS ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES IN THE FIELD AND NOTIFYING NOLTE ASSOCIATES OF ANY POSSIBLE CONFLICTS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE EXISTING UTILITIES SHOWN HEREON AND ANY OTHER EXISTING UTILITIES NOT OF RECORD OR NOT SHOWN ON THESE PLANS AND AGREES TO ACCEPT FULL RESPONSIBILITY FOR FAILURE TO LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES (INCLUDING IRRIGATION LINES). CALL UTILITY NOTIFICATION CENTER OF NEW MEXICO FOR UTILITY LOCATIONS FORTY-EIGHT (48) HOURS PRIOR TO DIGGING. REPARATIONS WILL BE MADE AT THE SOLE COST OF THE CONTRACTOR AND AT NO COST TO THE OWNER FOR ALL DAMAGED UTILITIES.

THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING IMPROVEMENTS TO BE MET BY IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING, REPAIRING, OR REPLACING ALL EXISTING UTILITIES AND IMPROVEMENTS DAMAGED DURING CONSTRUCTION TO EQUAL OR BETTER CONDITION.

THE CONTRACTOR IS ADVISED THAT ALL EXISTING CONDITIONS OUTSIDE THE AREA OF WORK SHALL BE PROTECTED. DAMAGE OCCURS DURING CONSTRUCTION, IT WILL BE REPLACED TO THE ORIGINAL EXISTING CONDITION AT THE CONTRACTOR'S EXPENSE.

A MINIMUM COVER OF SIXTY (60) INCHES SHALL BE MAINTAINED OVER THE WATERLINE IN ALL LOCATIONS.

<u>.</u>

Ċı

COUPLING ADAPTERS TO TRANSITION BETWEEN PVC AND HDPE PIPE ARE TO BE AS MANUFACTURED BY JCM INDUSTRIES INC. OF NASH, TEXAS, PART NOS. 242-0760 AND 230-06, OR APPROVED EQUAL. CONTRACTOR SHALL CONTAIN ALL GRADING SPOILS, TRENCH EXCAVATION, EQUIPMENT AND MATERIAL SUPPLIES WITHIN THE PERMANENT EASEMENT DESIGNATED IN THESE CONTRACT PLANS. SHOULD ADDITIONAL SPACE BE NEEDED, THE CONTRACTOR SHALL CONTACT THE VILLAGE REPRESENTATIVE.

œ

THE CONTRACTOR SHALL HAVE AT THE JOB SITE AT ALL TIMES ONE (1) SIGNED COPY OF PLANS WHICH HAVE BEEN APPROVED FOR CONSTRUCTION.

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THESE REQUIREMENTS SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER. CONTRACTOR SHALL PROVIDE THE VILLAGE WITH RECORD DRAWINGS. CONTRACTOR SHALL EITHER CONTRACT WITH THE ENGINEER TO HAVE REVISIONS DRAFTED ON ORIGINAL MYLARS OR SHALL PERSONALLY MAKE THE REVISIONS ON MYLARS SUPPLIED BY THE ENGINEER AND SUBMIT THE REVISED MYLARS FOR APPROVAL BY THE ENGINEER.

CLEANUP AND RESTORATION: RESTORE ALL UTILITIES, FENCES, LANDSCAPING, AND OTHER STRUCTURES OR SURFACES AFFECTED BY CONSTRUCTION, TO THE SATISFACTION OF ENGINEER, AUTHORITY HAVING JURISDICTION, AND PROPERTY OWNER. GENERAL CLEANUP OF THE AREA SHALL BE PERFORMED ON A DAILY BASIS TO THE SATISFACTION OF THE ENGINEER/OWNER'S REPRESENTATIVE.

A MINIMUM VERTICAL CLEARANCE OF EIGHTEEN (18) INCHES SHALL BE MAINTAINED AT CROSSINGS OF THE WATER LINE AND SANITARY SEWERS OR STORM DRAIN LINES.

WATER LINE STATIONING IS SHOWN ON THESE PLANS. PROFILES ARE BASED ON THE CENTER LINE OF THE PROPOSED WATER LINE.

4.

ANY CONSTRUCTION DEBRIS OR TRACKED MUD INTO THE PUBLIC RIGHT-OF-WAY WILL BE REMOVED IMMEDIATELY BY THE CONTRACTOR. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AS PER THE STATE REQUIREMENTS. ALL DISTURBED AREAS SHALL BE REVEGETATED TO THE SATISFACTION OF THE OWNER, THE AGENCY HAVING JURISDICTION,

ALL TRENCHES SHALL BE ADEQUATELY SUPPORTED AND THE SAFETY OF WORKERS PROVIDED FOR AS REQUIRED BY THE MOST RECENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION". THESE REGULATIONS ARE DESCRIBED IN SUBPART P, PART 1926 OF THE CODE OF FEDERAL REGULATIONS. SHEETING AND SHORING SHALL BE UTILIZED WHERE NECESSARY TO PREVENT ANY EXCESSIVE WIDENING OR SLOUGHING OF THE TRENCH WHICH MAY BE DETRIMENTAL TO HUMAN SAFETY, TO THE PIPE BEING PLACED, TO TREES, OR TO ANY EXISTING STRUCTURE. WHERE EXCAVATIONS ARE MADE UNDER WATER CONDITIONS. THE CONTRACTOR MAY BE REQUIRED TO USE AN APPROVED PILING INSTEAD OF SHEETING AND SHORING.

6.

CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FORTY-EIGHT (48) HOURS PRIOR TO THE START OF CONSTRUCTION. A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED WITH THE VILLAGE 24 HOURS PRIOR TO START OF

THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION AND SEDIMENT CONTROL MEASURES AT ALL TIMES DURING CONSTRUCTION. IF DEWATERING IS REQUIRED, A STATE CONSTRUCTION DEWATERING DISCHARGE PERMIT IS REQUIRED FOR DISCHARGES TO A STORM SEWER, CHANNEL, IRRIGATION DITCH, ANY STREET THAT IS TRIBUTARY TO THE AFOREMENTIONED FACILITIES OR ANY WATERS OF THE UNITED STATES.

CONTRACTOR MUST TAKE ALL PRECAUTIONS NECESSARY WHEN WORKING AROUND EXISTING OVERHEAD ELECTRIC LINES TO PREVENT DAMAGE BY CONSTRUCTION CREW. SHOULD CONTRACTOR DAMAGE ELECTRIC FACILITIES, HE MUST CONTACT UTILITY OWNER, WHO WILL REPAIR THE FACILITIES, WITH CONTRACTOR LIABLE FOR ALL ASSOCIATED COSTS. COMPACTION OF ALL TRENCHES MUST BE ATTAINED AND COMPACTION TEST RESULTS SUBMITTED TO THE VILLAGE REPRESENTATIVE PRIOR TO FINAL ACCEPTANCE.

20.

CONTRACTOR SHALL AT ALL TIMES TAKE PRECAUTIONS FOR PROTECTION OF EXISTING PUBLIC AND PRIVATE INSTALLATIONS THAT MAY BE ENCOUNTERED DURING CONSTRUCTION. ANY DAMAGED INSTALLATIONS, PUBLIC OR PRIVATE, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO ORIGINAL OR BETTER CONDITION.

CONTRACTOR SHALL NOTIFY ALL RESIDENTS IN WRITING 48 HOURS PRIOR TO ANY SHUT-OFF IN SERVICE. THE NOTICES MUST HAVE CONTRACTOR'S PHONE NUMBER AND NAME OF CONTACT PERSON, AND EMERGENCY PHONE NUMBER FOR AFTER HOUR CALLS. ALL SHUTOFFS MUST BE APPROVED BY THE VILLAGE OF CIMARRON, AND VILLAGE VALVES AND APPURTENANCES SHALL BE OPERATED BY VILLAGE PERSONNEL, UNLESS WRITTEN PERMISSION IS GIVEN OTHERWISE.

23.

THE CONTRACTOR SHALL WARRANT ALL WORK TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF TWO-YEARS FROM THE DATE OF SUBSTANTIAL COMPLETION. ALL WORK, INCLUDING CORRECTION WORK, SHALL BE INSPECTED BY A VILLAGE REPRESENTATIVE WHO SHALL HAVE THE AUTHORITY TO HALT CONSTRUCTION WHEN STANDARD CONSTRUCTION PRACTICES ARE NOT BEING ADHERED TO.

CONTRACTOR SHALL REGULARLY PATROL THE PRIVATE LANDS ADJACENT TO THE DEVELOPMENT, REMOVE CONSTRUCTION DEBRIS AND KEEP CLEAN AND SAFE.

THE CONTRACTOR SHALL FURNISH THE VILLAGE WITH A SET OF "RECORD" PLANS PRIOR TO ENTERING INTO THE TWO-YEAR WARRANTY PERIOD.

WATER SERVICE LINES SHALL HAVE A MINIMUM OF 4'-0" OF COVER OVER PIPE.

XREFS: *TBGN, EXPN, PRWT* 

ALL TEES AND BENDS SHALL BE RESTRAINED BY MECHANICAL MEANS ACCORDING TO NEW MEXICO STANDARD SPECIFICATION SECTION 801 - INSTALLATION OF WATER TRANSMISSION, COLLECTOR AND DISTRIBUTION LINES.

SITE MAP NOT TO SCALE

THE LINE OF COMMUNICATION REGARDING QUESTIONS, FIELD EXECUTION CONCERNS, REQUEST FOR INFORMATION OR PROPOSED CHANGE ORDERS BY THE UTILITY PERSONNEL AND/OR THE CONTRACTOR SHOULD FLOW TO THE ENGINEER AND THE CONSTRUCTION PROGRAMS BUREAU WITH FINAL DIRECTION FROM THE OWNER AFTER PROPER REVIEW AND APPROVAL BY THE ENGINEER AND CONSTRUCTION PROGRAMS BUREAU. THE DUTY OF THE VILLAGE REPRESENTATIVE TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON OR NEAR THE CONSTRUCTION SITE.

CONTRACTOR SHALL FOLLOW ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REQUIREMENTS FOR CONFINED SPACE ENTRY AS NECESSARY FOR THIS PROJECT.

THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ALL PERMITS WHICH ARE NECESSARY TO PERFORM THE PROPOSED WORK. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, REGULATIONS, AND ORDINANCES.

ALL MAJOR VAULT PIPING IS TO BE FLANGED DUCTILE IRON MANUFACTURED ACCORDING TO ANSI/AWWA C110/A21.10 AND SHALL HAVE A MINIMUM WATER WORKING PRESSURE OF 250 PSI. ALL FLANGES ARE TO BE DUCTILE IRON, AND MANUFACTURED ACCORDING TO ANSI/AWWA C115/A21.15. MINIMUM WATER WORKING PRESSURE OF ALL FLANGED CONNECTIONS SHALL BE 250 PSI. FLANGED COUPLING ADAPTERS ARE TO BE FORD METER BOX COMPANY STYLE FFCA, AND FULLY RESTRAINED BETWEEN FLANGES WITH TIE RODS. SEE DETAIL SHEET FOR TIE ROD DETAILS.

FOR THOSE VALVES AND APPURTENANCES TO BE SUPPLIED BY CONTRACTOR, REFER TO SPECIFIC CRITERIA, UNLESS GIVEN IN THESE DRAWINGS. ALL DIMENSIONS OF PIPING SHOWN ARE APPROXIMATE. DRAWING IS INTENDED TO SHOW THE PROPER PLACEMENT OF EQUIPMENT AND SPOOL PIECES. BECAUSE OF VARIATIONS IN LAYING LENGTHS OF VALVES AND OTHER APPURTENANCES, CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND PROPER PLACEMENT OF ALL EQUIPMENT.

ALL VALVES SHALL BE INSTALLED WITH A VALVE BOX AND CONCRETE COLLAR AS SPECIFIED IN THE CONSTRUCTION DOCUMENTS AND DETAILED IN THESE DRAWINGS NOTICE OF EXTENDED PAYMENT PROVISION - THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER ACCEPTANCE BY THE VILLAGE OF CIMARRON OF AN UNDISPUTED REQUEST FOR PAYMENT.

CALL UTILITY NOTIFICATION
CENTER AT
-800-321-ALEF — ALER1
(25378)
IN ADVANCE
OR EXCAVATE DALE J. EKBERG, NEW MEXICO P.E. NO. 13854 FOR AND ON BEHALF OF NOLTE ASSOCIATES, INC.

CONTRACTOR SHALL CONNECT NEW TRANSMISSION LINE TO THE EXISTING TRANSMISSION LINE AT UPSTREAM AND DOWNSTREAM TERMINATIONS FOR ANY LENGTH OF PIPE AWARDED. CONTRACTOR SHALL ABANDON THE TRANSMISSION MAIN ADJACENT TO ANY SECTION THAT HAS BEEN REPLACED.

CSB070000

VERTICAL: 1"=NA HORIZONTAL: 1"=NA

GN01

BEYOND ENGINEERING **COLORADO SPRINGS, CO 80920** 1975 RESEARCH PARKWAY, SUITE 165 WWW.NOLTE.COM 719.268.8500 TEL 719.268.9200 FAX

WATER TREATMENT PLANT AND RAW WATER VAULT CONTROL POINT #2 LAMBERT HEIGHTS CONTROL POINT #1 CIMARRON MAIN WATER TANK WATER TANK OF THE VILLAGE **CONTROL POINT #3 CIMARRON** CONTROL POINT #2
TRI-STA. CIMARRON
N=2,003,359.34
E=368,965.52 NGS BENCHMARK S 1.54 MILES SOUTHWEST OF CIMARRON. SET ALONG RIGHT OF WAY OF A.T. AND S.F. R.R. 40 FT. NORTHWEST OF CENTER LINE OF TRACK. 100 FT. NORTHWEST OF PRIVATE ROAD. OPPOSITE M.P. 40. Elev.= 6518.39 (NAVD 88) STANDARD SPECIFICATIONS BENCHMARKNEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION — LATEST EDITION CONSTRUCTION SPECIFICATIONS MANUAL

#### BASIS0FBEARINGS

BASIS OF BEARING: BEARINGS SHOWN ARE RELATED TO GRID NORTH FOR THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, AS DETERMINED BY GPS OBSERVATIONS MADE ON THE STATION "CIMARRON: WITH DELTA ALPHA EQUAL TO — 00.20.56".

### CONTROL

CONTROL POINT SURVEY PANEL N=2,003,892.13 E=365,902.01 #1

CONTROL POINT #3 SURVEY PANEL N=2,004,225.00 =368,766.34

#### GRADINGNOTES

FINISH GRADE ELEVATIONS SHALL ELEVATIONS SHOWN ON THESE PL MIHIN

LIFTS SHALL NOT EXCEED 6" IN COMPACTED DEPTH.

FINAL GRADING ACCEPTABLE. ALL DISTURBED AREAS THAT ARE UNSURFACED OR ARE LANDSCAPE AREAS ARE TO BE REMEDIATED ACCORDING LOCAL LAWS, REGULATIONS, AND ORDINANCES SHALL PROVIDE POSITIVE DRAINAGE. WATER NOT DESIGNATED TO ALL FEDERAL, SHALL AS STATE, AND

TRANSMISSION LINECONNECTIONNOTES

#### WATER SYSTEM IMPROVEMENTS

COMPLETE COMPLETE COMPLETE COMPLETE

PREPARED FOR: THE VILLAGE OF CIMARRON

DATE SUBMITTED:

**JUNE 2008** 

REVISIONS:

TITLE SHEET

COMPLETE COMPLETE

56

for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

DATE