

FIRE HYDRANT PLAN

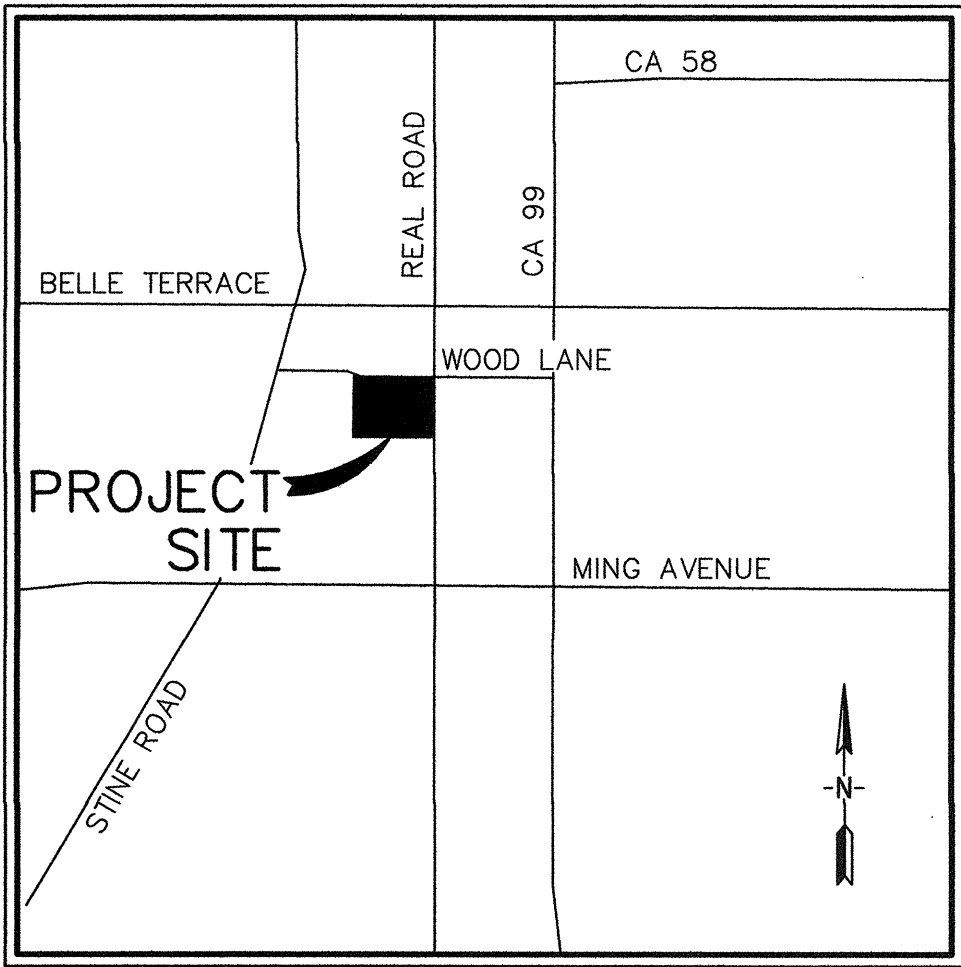
CURRAN MIDDLE SCHOOL

1116 LYMRIC WAY

BAKERSFIELD, CALIFORNIA

COUNTY OF KERN GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL CONFORM TO THIS PLAN, CALIFORNIA BUILDING CODE, LATEST EDITION AND STANDARDS PERTAINING THERETO. THESE DOCUMENTS SHALL BE MADE A PART HEREOF.
- 2. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS BEFORE START OF CONSTRUCTION.
- 3. PRIOR TO THE START OF ANY PHASE OF CONSTRUCTION WITHIN THE STREET RIGHT-OF-WAY, THE CONTRACTOR SHALL GIVE THE COUNTY CONSTRUCTION INSPECTION DEPARTMENT 48 HOURS NOTICE.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING DIMENSIONS, DATA AND MEASUREMENTS AT THE BUILDING SITE PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. PORTER & ASSOCIATES, INC. MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.
- 5. EXISTING UTILITY AND UNDERGROUND LINES HAVE BEEN SHOWN ON THIS PLAN IN AN APPROXIMATE WAY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND UNDERGROUND PIPELINES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR BY HIS FAILURE TO EXACTLY LOCATE, PRESERVE AND PROTECT ANY AND ALL UNDERGROUND UTILITIES AND PIPELINES. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (U.S.A.: 1-800-227-2600) TWO WORKING DAYS PRIOR TO ANY CONSTRUCTION OR EXCAVATION.
- 6. ANY EXISTING IMPROVEMENTS OR UTILITIES THAT ARE REMOVED, DAMAGED OR UNDERCUT BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE, AS DIRECTED BY THE ENGINEER AND APPROVED BY THE GOVERNING AUTHORITY.
- 7. IF A PROBLEM OR CONFLICT SHOULD ARISE DURING THE COURSE OF THE PROJECT, IT IS THE RESPONSIBILITY OF THE OWNER OR GRADING CONTRACTOR TO NOTIFY THE ENGINEER IMMEDIATELY PRIOR TO ANY FURTHER WORK.
- 8. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND SUPERVISION NECESSARY FOR A COMPLETE AND FUNCTIONAL PRODUCT.
- 9. ALL WORK WHICH IS DEFECTIVE IN ITS CONSTRUCTION OR DEFICIENT IN ANY OF THE REQUIREMENTS OF THESE DRAWINGS AND SPECIFICATIONS SHALL BE REMEDIED, OR REMOVED AND REPLACED BY THE CONTRACTOR IN AN ACCEPTABLE MANNER, AND NO COMPENSATION WILL BE ALLOWED FOR SUCH CORRECTION.
- 10. IN THE EVENT CONSTRUCTION STAKING BASED ON THE CONSULTANT'S PLANS, DRAWINGS OR OTHER DOCUMENTS IS ACCOMPLISHED BY ANYONE OTHER THAN THE CONSULTANT, THE OWNER OR CONTRACTOR SHALL NOTIFY THE BUILDING OFFICIAL IN WRITING AS TO THE CHANGE OF ENGINEER IN RESPONSIBLE CHARGE.
- 11. THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT; INCLUDING EROSION, SEDIMENTATION & DUST CONTROL PLAN AND STORM WATER POLLUTION PREVENTION PLAN IMPLEMENTATION AND THE SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE 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.
- 12. IF THE CONTRACTOR IS IN DOUBT AS TO THE MEANING OF ANY PART OF THE DRAWINGS AND SPECIFICATIONS OR FINDS DISCREPANCIES IN OR OMISSIONS FROM THE DRAWINGS, HE SHALL SUBMIT A WRITTEN REQUEST FOR AN INTERPRETATION OR A CORRECTION THEREOF, PRIOR TO FILING HIS BID PRICE FOR THE PROJECT.
- 13. PORTER & ASSOCIATES, INC. SHALL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ANY AND ALL CHANGES TO THESE PLANS MUST BE APPROVED IN WRITING BY PORTER & ASSOCIATES, INC.
- 14. TRENCHING SHALL MEET THE REQUIREMENTS OF CAL-OSHA TRENCHING ORDERS AND THE CONTRACTOR SHALL COMPLY WITH SECTION 6422 OF THE LABOR CODE.
- 15. TRENCHING SHALL BE BACKFILLED ACCORDING TO COUNTY STANDARD PLATE S-1 AND W-4. ANY TRENCHING TO BE CONDUCTED WITHIN COUNTY RIGHT-OF-WAY SHALL BE BACKFILLED AND COMPACTED AS DIRECTED BY THE COUNTY ENGINEER.
- 16. DURING GRADING AND CONSTRUCTION, ALL ACTIVITIES ADJACENT TO RESIDENTIAL DEVELOPMENT SHALL BE LIMITED FROM 7:00AM TO 7:00PM, MONDAY THROUGH FRIDAY. CONSTRUCTION WILL NOT BE ALLOWED ON WEEKENDS OR FEDERAL HOLIDAYS. VERIFICATION OF COMPLIANCE WITH THIS MITIGATION MEASURE SHALL BE THE RESPONSIBILITY OF THE KERN COUNTY ENGINEERING AND SURVEY SERVICES DEPARTMENT/BUILDING INSPECTION DIVISION.
- 17. ALL USED OIL SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS FOLLOWING CONSULTATION WITH THE KERN COUNTY ENVIRONMENTAL HEALTH SERVICES DEPARTMENT/HAZARDOUS MATERIALS SECTION, STATE OF CALIFORNIA DEPARTMENT OF HEALTH, AND THE ENVIRONMENTAL PROTECTION AGENCY. ALL USED OIL AND OTHER WASTES SHALL BE TRANSPORTED BY A REGISTERED WASTE HAULER.



VICINITY MAP
NO SCALE

ONSITE WATER SPECIFICATIONS

THE FOLLOWING NOTES SHALL APPLY TO THE ONSITE WATER SYSTEM (INCLUDING FIRE SERVICE) FROM THE SERVICE CONNECTION TO THE BUILDING OR FIRE HYDRANT. ALL OTHER ASPECTS OF THE ONSITE WATER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE COUNTY OF KERN DEVELOPMENT STANDARDS FOR DOMESTIC WATER SYSTEMS, CURRENT EDITION.

- 1. CONTRACTOR SHALL FURNISH ALL MATERIALS, TOOLS, LABOR, EQUIPMENT, SUPERVISION AND TESTING NECESSARY FOR A COMPLETE INSTALLATION OF THE WATER SYSTEM.
- 2. WATER PIPE 4" AND LARGER SHALL MEET THE REQUIREMENTS OF AWWA C900, CLASS 150. JOINTS SHALL HAVE ELASTOMERIC GASKETS AND CONFORM TO ASTM D3139. WATER PIPE 3" AND SMALLER SHALL CONFORM TO ASTM D1785 SCHEDULE 40 AND SHALL HAVE SOLVENT WELDED JOINTS. PIPE SHALL BE INSTALLED IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 3. FITTINGS FOR AWWA C900 PIPE SHALL BE DUCTILE IRON CONFORMING TO AWWA 150. FITTINGS FOR SCHEDULE 40 PIPE SHALL CONFORM TO ASTM D2466 SCHEDULE 40.
- 4. GATE VALVES SHALL BE AWWA C509 WITH RESILIENT SEATS.
- 5. THE MINIMUM WIDTH OF TRENCH SHALL BE THE OUTSIDE DIAMETER OF THE PIPE PLUS 12". A MINIMUM OF 6" OF CLEARANCE SHALL BE PROVIDED FROM THE OUTSIDE FACE OF THE PIPE TO THE TRENCH WALL. WATER LINES AND SERVICES SHALL HAVE A MINIMUM OF 30" OF COVER FROM THE TOP OF PIPE TO FINISHED GRADE. THE BOTTOM OF THE TRENCH SHALL BE EXCAVATED TO THE ESTABLISHED GRADE LINE OF THE PIPE AND SHALL BE SMOOTH, EVEN AND FLAT FOR THE ENTIRE WIDTH OF THE TRENCH. AT EACH JOINT THE BOTTOM OF THE TRENCH SHALL BE RECESSED IN SUCH A MANNER AS TO RELIEVE THE PIPE BELL OR COUPLING OF ALL LOAD AND TO ENSURE CONTINUOUS BEARING ALONG THE PIPE BARREL.
- 6. BACKFILL SHALL BE INITIALLY PLACED AND COMPACTED FROM THE PIPE BED TO THE SPRING LINE OF THE PIPE. BACKFILL SHALL BE SUFFICIENTLY RODDED OR HAND-TAMPED TO ENSURE REQUIRED COMPACTION IS ACHIEVED AROUND THE PIPE. SUBSEQUENT BACKFILL SHALL BE PLACED IN LAYERS NOT EXCEEDING 6" IN COMPACTED THICKNESS. EMBEDMENT MATERIALS SHALL BE CLASS I OR II PER A.S.T.M. D2321, MAX SIZE=1".
- 7. INSTALL 3" WIDE BLUE MAGNETIC DETECTION TAPE MARKED "WATER" AS MANUFACTURED BY MAGNATEC 12" ABOVE WATER LINES.
- 8. BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION AND IN ACCORDANCE WITH COUNTY OF KERN STANDARD PLATES. REQUESTS FOR SUBSTITUTION OF DEVICES MUST BE SUBMITTED PRIOR TO BIDDING AND MUST BE APPROVED BY THE ENGINEER AND THE COUNTY ENGINEER.
- 9. THRUST BLOCKS SHALL BE INSTALLED PER C.O.K. PLATE W-3.

ONSITE TRENCHING NOTES (COUNTY)

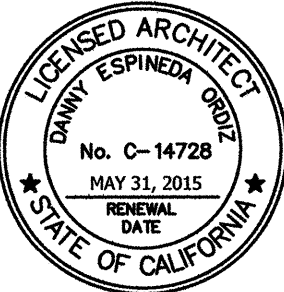
- 1. TRENCHING SHALL MEET THE REQUIREMENTS OF CAL-OSHA TRENCHING ORDERS AND THE CONTRACTOR SHALL COMPLY WITH SECTION 6422 OF THE LABOR CODE.
- 2. TRENCHING SHALL BE BACKFILLED AND COMPACTED PER COUNTY OF KERN STANDARD PLATE S-1 AND W-4.
- 3. ALL EXISTING PAVING AND SURFACING REMOVED, DAMAGED OR UNDERCUT SHALL BE REPLACED IN ACCORDANCE WITH THE COUNTY OF KERN STANDARD PLATE R-67.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING ALL TRENCHES. IF TRENCHES OR PIPING BECOME DAMAGED DUE TO WATER INFILTRATION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR THE TRENCH AND PIPING TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- 5. FLOODING, JETTING, OR SIMILAR CONSOLIDATION METHODS SHALL NOT BE USED FOR BACKFILL COMPACTION.
- 6. CLASS I BEDDING AND EMBANKMENT IS REQUIRED FOR ALL PLASTIC SEWER PIPE WITHIN THE PIPE ZONE. CLASS I BACKFILL IS NOT REQUIRED IF PIPE SLOPE EXCEEDS 1%.
- 7. COMPACTION TESTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE NUMBER AND LOCATION OF REQUIRED TESTS SHALL BE DETERMINED BY THE OWNER. THE COST OF RETESTING DUE TO FAILED COMPACTION TESTS WILL BE BACKCHARGED TO THE CONTRACTOR.
- 8. THE TRENCH BOTTOM SHALL BE CONSTRUCTED TO PROVIDE A FIRM, STABLE AND UNIFORM SUPPORT FOR THE FULL LENGTH OF PIPE. BELL HOLES SHALL BE PROVIDED AT EACH JOINT. ANY PORTION OF THE TRENCH BOTTOM EXCAVATED BELOW GRADE SHALL BE BACKFILLED TO GRADE AND COMPACTED AS REQUIRED TO PROVIDE FIRM PIPE SUPPORT. WHEN AN UNSTABLE SUB GRADE CONDITION IS ENCOUNTERED WHICH WILL PROVIDE INADEQUATE PIPE SUPPORT, OR WHEN LEDGE ROCK, BOULDERS, OR LARGE STONES ARE ENCOUNTERED, ADDITIONAL TRENCH DEPTH SHALL BE EXCAVATED AND REFILLED WITH SUITABLE FOUNDATION MATERIAL AND COMPACTED.
- 9. CONTRACTOR SHALL COMPLY WITH TRENCHING RECOMMENDATIONS BY THE GEOTECHNICAL ENGINEER.



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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APPROX 110318
DATE 10/15/15

051215

**9 RELOCATABLE
CLASSROOM BUILDINGS
FOR:**

**CURRAN MIDDLE SCHOOL
1116 LYMRIC WAY
BAKERSFIELD, CA 93309
FOR:**

**BAKERSFIELD CITY
SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93305**

MARK	DATE	DESCRIPTION

JOB NUMBER
1508.00
CAD DRAWING FILE:
1508 NINE New Portables - CD16.pln
DRAWN BY:

CHECKED BY:

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