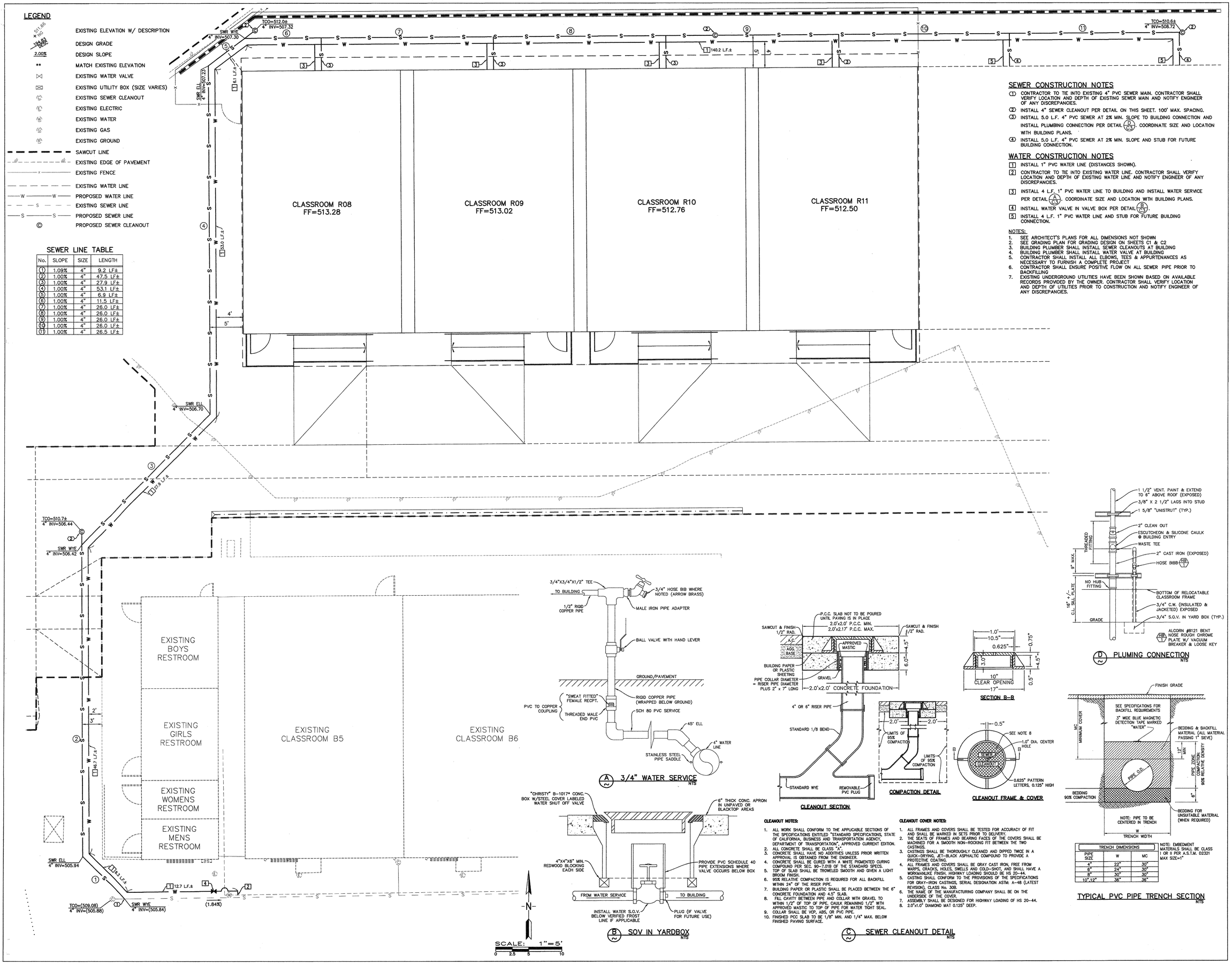
LEGEND

- EXISTING ELEVATION W/ DESCRIPTION
- DESIGN GRADE
- DESIGN SLOPE
- MATCH EXISTING ELEVATION
- EXISTING WATER VALVE
- EXISTING UTILITY BOX (SIZE VARIES)
- EXISTING SEWER CLEANOUT
- EXISTING ELECTRIC
- EXISTING WATER
- EXISTING GAS
- EXISTING GROUND
- SAWCUT LINE
- EXISTING EDGE OF PAVEMENT
- EXISTING FENCE
- EXISTING WATER LINE
- PROPOSED WATER LINE
- EXISTING SEWER LINE
- PROPOSED SEWER LINE
- PROPOSED SEWER CLEANOUT

SEWER LINE TABLE

No.	SLOPE	SIZE	LENGTH
①	1.09%	4"	9.2 LF±
②	1.00%	4"	47.5 LF±
③	1.00%	4"	27.9 LF±
④	1.00%	4"	53.1 LF±
⑤	1.00%	4"	6.9 LF±
⑥	1.00%	4"	11.5 LF±
⑦	1.00%	4"	26.0 LF±
⑧	1.00%	4"	26.0 LF±
⑨	1.00%	4"	26.0 LF±
⑩	1.00%	4"	26.0 LF±
⑪	1.00%	4"	26.5 LF±



SEWER CONSTRUCTION NOTES

1. CONTRACTOR TO TIE INTO EXISTING 4" PVC SEWER MAIN. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF EXISTING SEWER MAIN AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
2. INSTALL 4" SEWER CLEANOUT PER DETAIL ON THIS SHEET. 100' MAX. SPACING.
3. INSTALL 5.0 L.F. 4" PVC SEWER AT 2% MIN. SLOPE TO BUILDING CONNECTION AND INSTALL PLUMBING CONNECTION PER DETAIL (D/C3). COORDINATE SIZE AND LOCATION WITH BUILDING PLANS.
4. INSTALL 5.0 L.F. 4" PVC SEWER AT 2% MIN. SLOPE AND STUB FOR FUTURE BUILDING CONNECTION.

WATER CONSTRUCTION NOTES

1. INSTALL 1" PVC WATER LINE (DISTANCES SHOWN).
2. CONTRACTOR TO TIE INTO EXISTING WATER LINE. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF EXISTING WATER LINE AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
3. INSTALL 4 L.F. 1" PVC WATER LINE TO BUILDING AND INSTALL WATER SERVICE PER DETAIL (A/C3). COORDINATE SIZE AND LOCATION WITH BUILDING PLANS.
4. INSTALL WATER VALVE IN VALVE BOX PER DETAIL (B/C3).
5. INSTALL 4 L.F. 1" PVC WATER LINE AND STUB FOR FUTURE BUILDING CONNECTION.

NOTES:

1. SEE ARCHITECT'S PLANS FOR ALL DIMENSIONS NOT SHOWN
2. SEE GRADING PLAN FOR GRADING DESIGN ON SHEETS C1 & C2
3. BUILDING PLUMBER SHALL INSTALL SEWER CLEANOUTS AT BUILDING
4. BUILDING PLUMBER SHALL INSTALL WATER VALVE AT BUILDING
5. CONTRACTOR SHALL INSTALL ALL ELBOWS, TEES & APPURTENANCES AS NECESSARY TO FURNISH A COMPLETE PROJECT
6. CONTRACTOR SHALL ENSURE POSITIVE FLOW ON ALL SEWER PIPE PRIOR TO BACKFILLING
7. EXISTING UNDERGROUND UTILITIES HAVE BEEN SHOWN BASED ON AVAILABLE RECORDS PROVIDED BY THE OWNER. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

A 3/4" WATER SERVICE NTS

B SOV IN YARDBOX NTS

CLEANOUT SECTION

COMPACTION DETAIL

SECTION B-B

CLEANOUT FRAME & COVER

CLEANOUT NOTES:

1. ALL WORK SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE SPECIFICATIONS ENTITLED "STANDARD SPECIFICATIONS, STATE OF CALIFORNIA, BUSINESS AND TRANSPORTATION AGENCY, DEPARTMENT OF TRANSPORTATION", APPROVED CURRENT EDITION.
2. ALL CONCRETE SHALL BE CLASS "A".
3. CONCRETE SHALL HAVE NO ADDITIVES UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM THE ENGINEER.
4. CONCRETE SHALL BE CURED WITH A WHITE PIGMENTED CURING COMPOUND PER SEC. 90-7.01B OF THE STANDARD SPECS.
5. TOP OF SLAB SHALL BE TROWELED SMOOTH AND GIVEN A LIGHT BROOM FINISH.
6. 95% RELATIVE COMPACTION IS REQUIRED FOR ALL BACKFILL WITHIN 24" OF THE RISER PIPE.
7. BUILDING PAPER OR PLASTIC SHALL BE PLACED BETWEEN THE 6" CONCRETE FOUNDATION AND 4.5" SLAB.
8. FILL CAVITY BETWEEN PIPE AND COLLAR WITH GRAVEL TO WITHIN 1/2" OF TOP OF PIPE. CAULK REMAINING 1/2" WITH APPROVED MASTIC TO TOP OF PIPE FOR WATER TIGHT SEAL.
9. COLLAR SHALL BE VCP, ABS, OR PVC PIPE.
10. FINISHED PCC SLAB TO BE 1/8" MIN. AND 1/4" MAX. BELOW FINISHED PAVING SURFACE.

CLEANOUT COVER NOTES:

1. ALL FRAMES AND COVERS SHALL BE TESTED FOR ACCURACY OF FIT AND SHALL BE MARKED IN SETS PRIOR TO DELIVERY.
2. THE SEATS OF FRAMES AND BEARING FACES OF THE COVERS SHALL BE MACHINED FOR A SMOOTH NON-ROCKING FIT BETWEEN THE TWO CASTINGS.
3. CASTINGS SHALL BE THOROUGHLY CLEANED AND DIPPED TWICE IN A QUICK-DRYING, JET-BLACK ASPHALTIC COMPOUND TO PROVIDE A PROTECTIVE COATING.
4. ALL FRAMES AND COVERS SHALL BE GRAY CAST IRON, FREE FROM WARPS, CRACKS, HOLES, SWELLS AND COLD-SHOT, AND SHALL HAVE A WORKMANLIKE FINISH. HIGHWAY LOADING SHOULD BE HS 20-44.
5. CASTING SHALL CONFORM TO THE PROVISIONS OF THE SPECIFICATIONS FOR GRAY-IRON CASTINGS, SERIAL DESIGNATION ASTM: A-48 (LATEST REVISION), CLASS No. 30B.
6. THE NAME OF THE MANUFACTURING COMPANY SHALL BE ON THE UNDERSIDE OF THE COVER.
7. ASSEMBLY SHALL BE DESIGNED FOR HIGHWAY LOADING OF HS 20-44.
8. 2.0'x1.0' DIAMOND MAT 0.125" DEEP.

C SEWER CLEANOUT DETAIL NTS

D PLUMING CONNECTION NTS

TRENCH DIMENSIONS		
PIPE SIZE	W	MC
4"	22"	30"
6"	24"	30"
8"	30"	30"
10",12"	36"	36"

NOTE: EMBEDMENT MATERIALS SHALL BE CLASS I, OR II PER A.S.T.M. D2321 MAX. SIZE=1"

TYPICAL PVC PIPE TRENCH SECTION NTS

MARK	DATE	REVISIONS
1		
2		
3		

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

HORACE MANN ELEMENTARY SCHOOL
SITE IMPROVEMENTS FOR RELOCATABLE CLASSROOMS

2710 NILES STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

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STEPHEN J. CORBIN, AIA, LEED® AP BD+C

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4-11-16

PORTER & ASSOCIATES, INC.
ENGINEERING & SURVEYING
1200 21st Street, Bakersfield, California 93301
661.327.0362 FAX 661.327.1085

CIVIL IMPROVEMENTS
SEWER & WATER PLAN

JOB NO.	1218
DRAWN:	
CHECKED:	
DATE:	04/11/16

C3
3 OF 3 SHEETS