

LEGEND

ARD	ASPHALT RUNDOWN
C&G	CURB AND GUTTER
CHC	CONCRETE HEADER CURB
CO	CLEANOUT
CULV	CULVERT
DBL	DOUBLE
FD	FIRE HYDRANT
FL	FLOW
GM	GAS METER
INV	INVERT
MH	MAN HOLE
RD	ROOF DRAIN
SW	SIDEWALK
SW CUL	SIDEWALK CULVERT
TC	TOP OF CURB
TCO	TOP OF CONCRETE
TG	TOP OF GRATE
W/L	WATER LINE
WCR	WHEEL CHAIR RAMP
WL	WATER LINE
→	FLOW ARROW
◆ 91.5	SPOT ELEVATION
---	EXISTING CONTOUR
---	NEW CONTOUR
FF=5329.2	FINISH FLOOR ELEVATION

BENCHMARKS

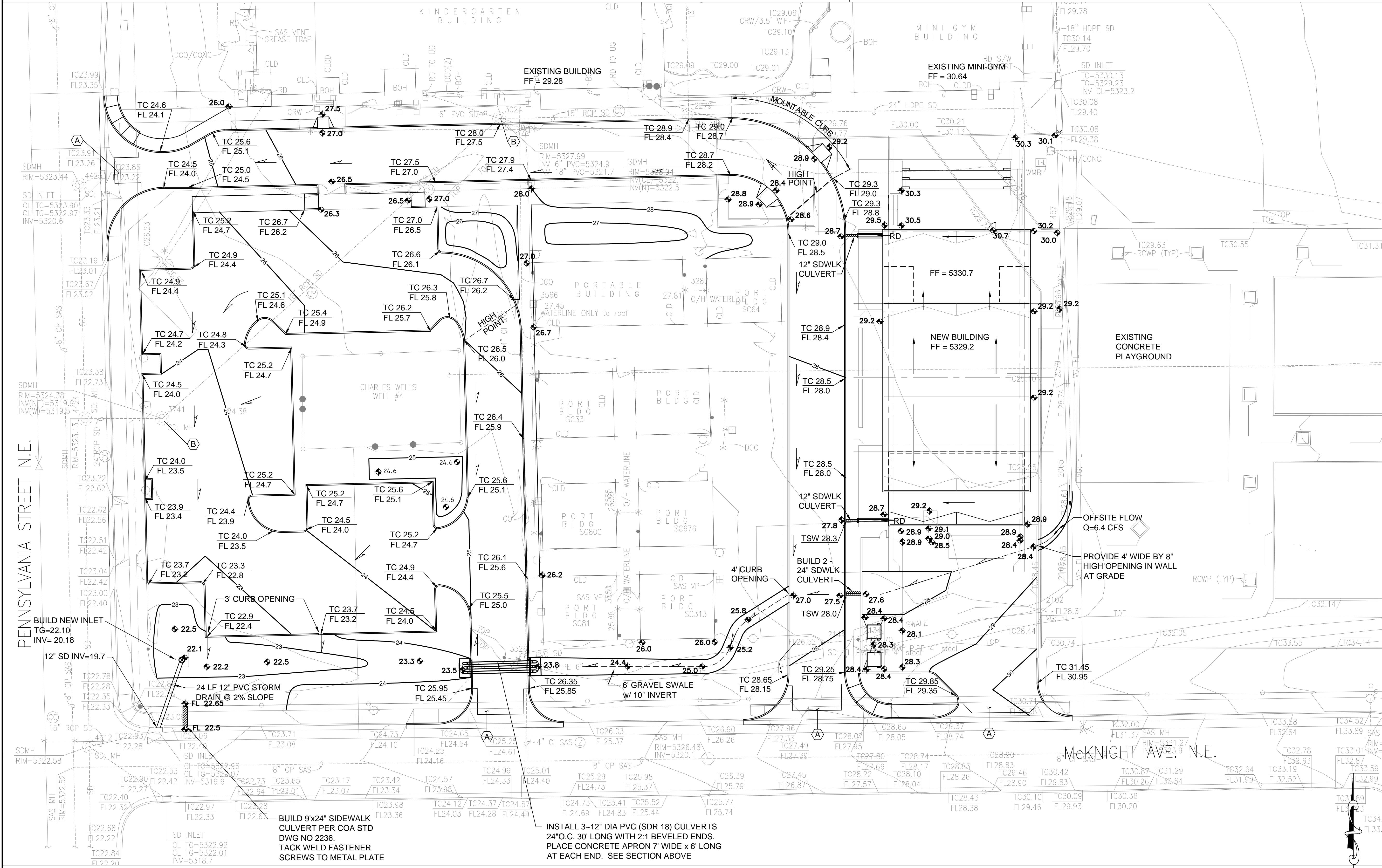
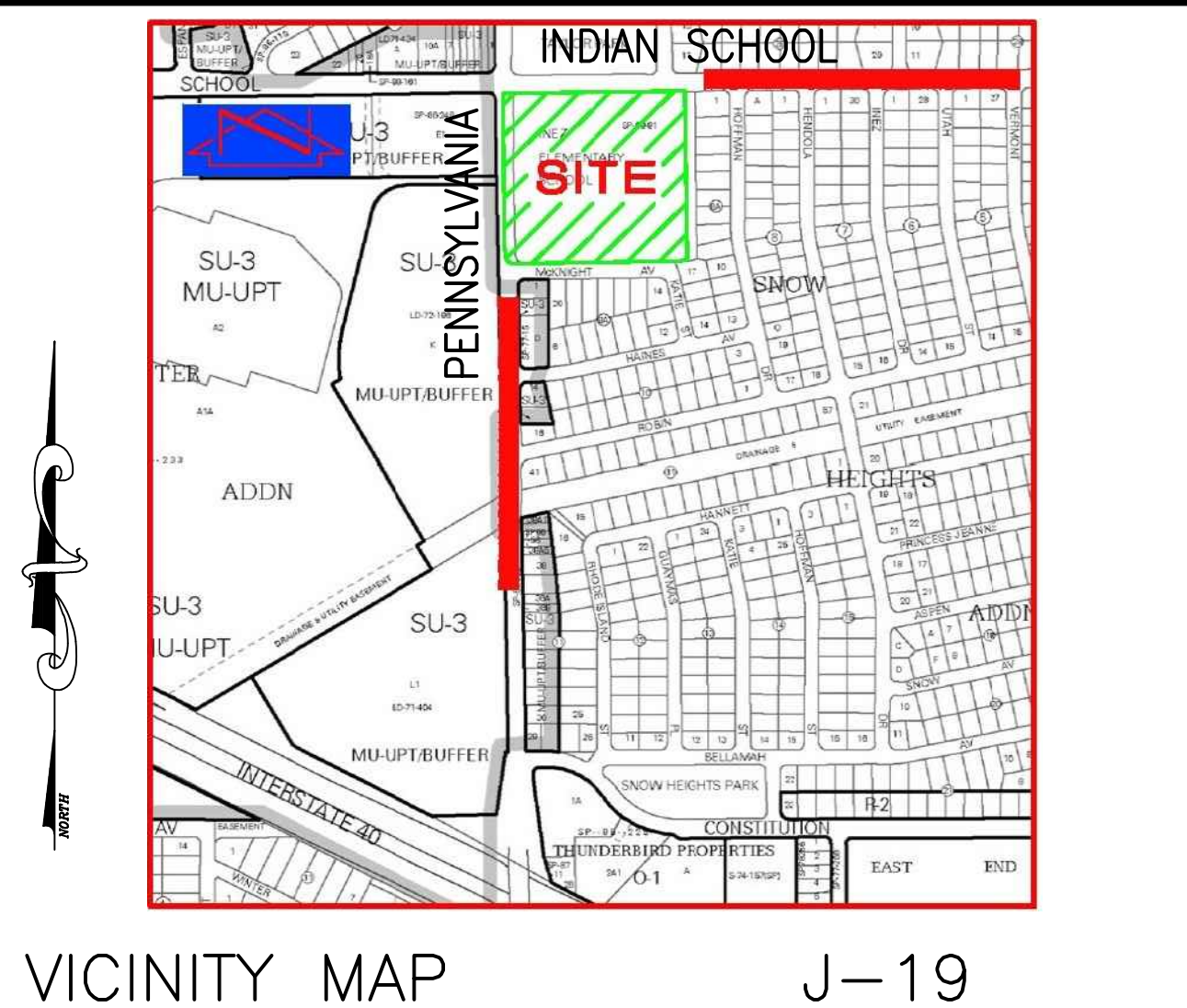
PROJECT BENCHMARK
A BRASS DISK STAMPED "1-H19A 1969", SET IN A CONCRETE POST, IN THE NORTHEAST QUADRANT OF THE INTERSECTION OF INDIAN SCHOOL ROAD AND PENNSYLVANIA STREET N.E.
ELEVATION = 5326.61 FEET (NAVD 1988)

TEMPORARY BENCHMARK (T.B.M.)
A #5 REBAR WITH CAP STAMPED "NEW MEXICO PS 11184", NORTHEAST CORNER OF PROPERTY, AS SHOWN ON SHEET 2.
ELEVATION = 5337.67 FEET (NAVD 1988)

KEYED NOTES

(A) NEW ENTRY DRIVES OFF PENNSYLVANIA AND MCKNIGHT SHALL BE BUILT THROUGH THE CURB RETURNS BY CITY WORK ORDER (CPN 596562).

(B) ADJUST MANHOLE RIM TO FINISH GRADE.



DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY NOTICE TO CONTRACTOR

- An excavation permit will be required before beginning any work within City Right-Of-Way.
- All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning construction safety and health.
- Two working days prior to any excavation, the contractor must contact the line locating service, New Mexico One Call 260-1990, (NM one call "811") for the location of existing utilities.
- Prior to construction, the contractor shall excavate and verify the locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
- Backfill compaction shall be according to traffic/street use.
- Maintenance of the facility shall be the responsibility of the owner of the property being served.
- Work on arterial streets shall be performed on a 24-hour basis.

LEGAL: Tract A, Inez Elementary School
AREA: Portion of site this project - 2.31 acres (100,620 sf)
BENCHMARK: City of Albuquerque Station "1-H19A 1969" being a brass disk in the NE corner of Pennsylvania St and Indian School Rd NE
ELEV= 5326.611 (NAVD 1988)
SURVEYOR: High Mesa Consulting Group dated January 2011

FLOOD HAZARD: From FEMA Panel 356 (9/26/2008), this site is identified as being within Zone 'X' which is located outside the 100-year floodplain

EXISTING CONDITIONS: The site is a public elementary school. A Master Drainage Plan (MDP) was recently prepared for this site (J19/D67) which identified existing and proposed drainage sub-basins. Basins A-3-b and A-3-c are the areas of the site affected. This area is presently a paved parking lot, portable classroom buildings, and asphalt millings that generally drains from east to west.

OFFSITE FLOWS: The Master Drainage Plan (MDP) identified an adjacent 1.63-acre playground area (sub-basin A-3-a) that discharges to this portion of the site. This offsite flow (6.4 cfs) will be accepted and routed through the site as shown.

PROPOSED IMPROVEMENTS: The proposed improvements include a 8,100 sf cafeteria and music/arts building, parent drop-off drive, and the reconstruction of the existing paved parking lot located in the southwest corner of the site.

DRAINAGE APPROACH: The proposed drainage plan will follow historic flow paths and the Master Drainage Plan. Runoff will discharge in two different ways. The north leg of the parent drop-off lane will drain west directly to Pennsylvania St. The majority of the area will surface flow southwest to a depressed landscaped area where it will be piped directly to the back of an existing storm drain inlet or flow out through a new sidewalk culvert to McKnight Avenue.

HYDROLOGY: The offsite area (MDP sub-basin A-3-a) has land treatment of 45% B and 55% D. For precipitation Zone 3 --- Q = (73)(2.60) + (90)(5.02) = 6.4 CFS

The north leg of the parent drop-off lane is 100% D land treatment:
PENNSYLVANIA STREET: Q = (0.30)(5.02) = 1.5 CFS
Where runoff passes under the staff parking entry drive:
DRIVEWAY X-ING: Q = (.41)(2.60) + (0.66)(5.02) = 6.4 = 10.8 CFS
Three proposed 12" culverts carry this flow under the drive:
Manning's: Q = (1.49/.013) AxR^{2/3} x S^{1/2} = 114.6(.7854)(.397)^{1/2} = 3.6 CFS
For Q = 10.8 CFS 10.8/3.6 CFS = 3 Culverts
The SW portion of the site is 38% B and 62% D land treatment:
SW CORNER: Q = (.72)(2.60) + (1.17)(5.02) = 7.7 CFS

Total flow at the SW corner of the site is then: Q = 6.4 + 7.7 = 14.1 CFS
This will be piped for flow rates up to 5.5 CFS with higher flow rates being discharged through the new sidewalk culvert (5.5+8.8=14.3 > 14.1 OK)

NCA
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PROJECT TITLE
INEZ ELEM. SCHOOL CAFETERIA FINE ARTS/CLASSROOM & RENOVATIONS

ALBUQUERQUE NEW MEXICO

REVISIONS:

NO./DATE	DESCRIPTION
08/09/12	ADDITIONS AND CORRECTIONS

DRAWN BY: _____ **CHECKED BY:** _____

CG _____ **TW** _____

PROJECT NUMBER: A10.11

DATE: 01.20.2012

SHEET TITLE: GRADING PLAN

SHEET NO.: C-101