CITY OF ALBUQUERQUE



December 6, 2013

Graeme Means High Mesa Consulting Group 6010 Midway Park Blvd. NE Albuquerque, NM 87109

Re: Douglas MacArthur Kindergarten and Cafeteria Additions
Grading and Drainage Plan
Engineer's Stamp date 10-31-13 (F14-D038)

Dear Mr. Means,

Based upon the information provided in your submittal received 11/1/2013, the above referenced plan is approved for Grading Permit, Paving Permit and Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Prior to Certificate of Occupancy release, Engineer Certification per the DPM will be required.

If you have any questions, you can contact me at 924-3695 or Rudy Rael at 924-3977.

PO Box 1293

Albuquerque

New Mexico 87103

HH "

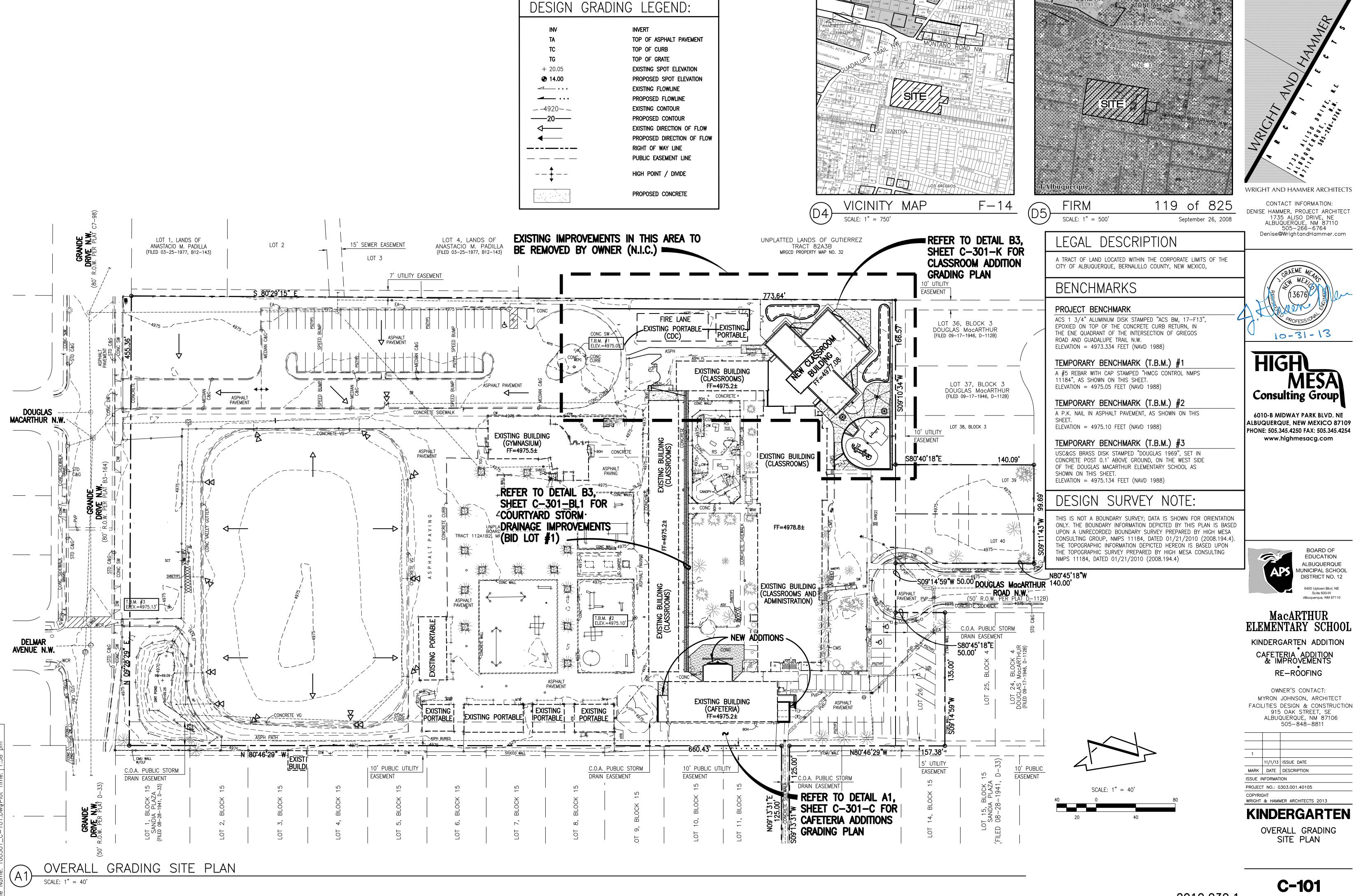
Shahab Biazar, P.E.

Senior Engineer, Planning Dept. Development and Building Services

www.cabq.gov

RR/SB

C: emailed



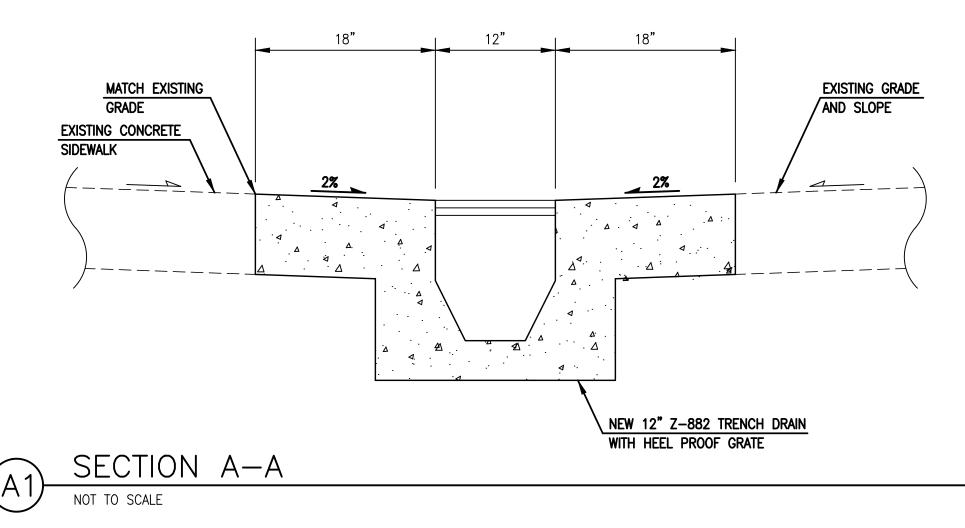
Trench Number	Shallow Inches	Invert mm	Deep l i Inches	nvert mm	Ma x GPM	r. Flow R LPS	ate CFS	Approx. (Less (Lbs.	
8201	6.25	159	7.25	184	557	35	1.241	68	30.8
8202	7.25	184	8.25	210	774	49	1.725	68	30.8
8203	8.25	210	9.25	235	999	63	2.226	70	31.8
8203N	9.25	235	9.25	235	-	-	_	71	32.2
8204	9.25	235	10.25	260	1232	78	2.745	72	32.7
8205	10.25	260	11.25	286	1468	93	3.271	75	34.0
8206	1 1.25	286	12.25	311	1709	108	3.808	77	34.9
8206N	12.25	311	12.25	311	-	-	_	78	35.4
8207	12.25	311	13.25	337	1951	123	4.347	79	35.8
8208	13.25	337	14.25	362	2196	139	4.893	80	36.3
8209	14.25	362	15.25	387	2443	155	5.443	83	37.7
8209N	15.25	387	15.25	387	-	-	_	84	38.1
8210	15.25	387	16.25	413	2691	170	5.996	85	38.6
8211	16.25	413	1 7.25	438	2940	186	6.551	87	39.5
8212	17.25	438	18.25	464	3189	202	7.106	89	40.4

Z882 System Profile								
<u>▼</u> 6.25" (158.8 mm) <u></u>	8201	8202	8203	8203N	8204	8205	8206	8206

* CONTRACTOR SHALL USE PRE-SLOPED SECTIONS AND PROVIDE BOTTOM OUTLET AT LOW POINT. SHOP DRAWING SUBMITTALS TO SHOW PROPOSED SECTIONS.

B1 Z882 PERMA-TRENCH - HDPE 12" DRAIN SYSTEM

SCALE: 1" = 2'-0"



CONNECT TO EXISTING STORM INLET CORE DRILL 8" DIA. OPENING FOR 6" PIPE. GRATE OPENING WITH NON-SHRINK GRATE INV. 72.00 INSTALL 6" C.I.S.P. STORM DRAIN /@ S=0.0100 (1%) **EXISTING BUILDING** TG=74.77 (CLASSROOMS) INV 72.10 FF=4975.2± CBC(TYP) CONCRETE NEATLY SAWCUT, REMOVE, DISPOSE AND REPLACE EXISTING CONCRETE SIDEWALK AND ASPHALT PAVEMENT INSTALL NEW 12" HDPE TRENCH DRAIN PER DETAIL B1 AND SECTION A-A LANDSCAPE PLANTERS NEATLY SAWCUT, REMOVE AND DISPOSE OF EXISTING CONCRETE SIDEWALK (4ft) NEATLY SAWCUT, REMOVE, DISPOSE MATCH EXISTING 5 REPLACE EXISTING CONCRETE PAVENENT CONCRETE, TYP. *1 FINSTALL NEW 12" HDPE TRENCH DRAIN PER DETAIL B1. TG75.10

INSTALL 6" CISP STORM]

DRAIN @ S=0.0100 (1%)

COURTYARD STORM DRAINAGE IMPROVEMENTS SCALE: 1" = 20'

NEW ADDITION MATCH

EXISTING F.F. @ 4975.2

* THIS SHEET IS BID LOT #1 *

CONSTRUCTION NOTES:

- 1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM 260-1990 FOR DESIGNATION (LINE-SPOTTING) OF EXISTING PUBLIC UTILITIES AND EXISTING UTILITIES OWNED AND OPERATED BY ALBUQUERQUE PUBLIC SCHOOLS.
- 2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.
- 3. 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.
- 4. ALL CONSTRUCTION WITHIN PUBLIC RIGHT—OF—WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
- 5. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE. OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES. RULES AND REGULATIONS. IF ANY. PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
- 6. THE DESIGN OF PLANTERS AND LANDSCAPED AREAS IS NOT PART OF THIS PLAN.ALL PLANTERS AND LANDSCAPED AREAS ADJACENT TO THE BUILDING(S) SHALL BE PROVIDED WITH POSITIVE DRAINAGE TO AVOID ANY PONDING ADJACENT TO THE STRUCTURE. FOR CONSTRUCTION DETAILS, REFER TO LANDSCAPING PLAN.

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- 3. WHEN APPLICABLE, CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" FROM THE CITY AND/OR FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION.

DESIGN SURVEY NOTE:

THIS IS NOT A BOUNDARY SURVEY; DATA IS SHOWN FOR ORIENTATION ONLY. THE BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON A UNRECORDED BOUNDARY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS 11184, DATED 01/21/2010 (2008.194.4). THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON THE TOPOGRAPHIC SURVEY PREPARED BY HIGH MESA CONSULTING NMPS 11184, DATED 01/21/2010 (2008.194.4)

DESIGN DRAINAGE LEGEND:

INV
TA
TOP OF ASPHALT PAVEMENT
TC
TOP OF CURB
TG
TOP OF GRATE
RIGHT OF WAY LINE
EASEMENT LINE
PROPOSED TRENCH DRAIN

PROPOSED ASPHALT PAVING

PROPOSED CONCRETE

WRIGHT AND HAMMER ARCHITECTS

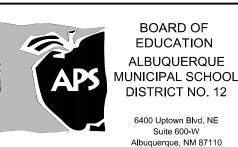
CONTACT INFORMATION:

DENISE HAMMER, PROJECT ARCHITECT
1735 ALISO DRIVE, NE
ALBUQUERQUE, NM 87110
505–266–6764
Denise@WrightandHammer.com





6010-B MIDWAY PARK BLVD. NE ALBUQUERQUE, NEW MEXICO 87109 PHONE: 505.345.4250 FAX: 505.345.4254 www.highmesacg.com



MacARTHUR ELEMENTARY SCHOOL

KINDERGARTEN ADDITION
CAFETERIA ADDITION
& IMPROVEMENTS
RE-ROOFING

OWNER'S CONTACT:

MYRON JOHNSON, ARCHITECT

FACILITIES DESIGN & CONSTRUCTION

915 OAK STREET, SE

ALBUQUERQUE, NM 87106

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		11/1/13	ISSUE DATE			
	MARK	DATE	DESCRIPTION			
	PROJECT NO.: 0303.001.40105 COPYRIGHT					

COURTYARD

COURTYARD STORM DRAINAGE IMPROVEMENTS DETAILS

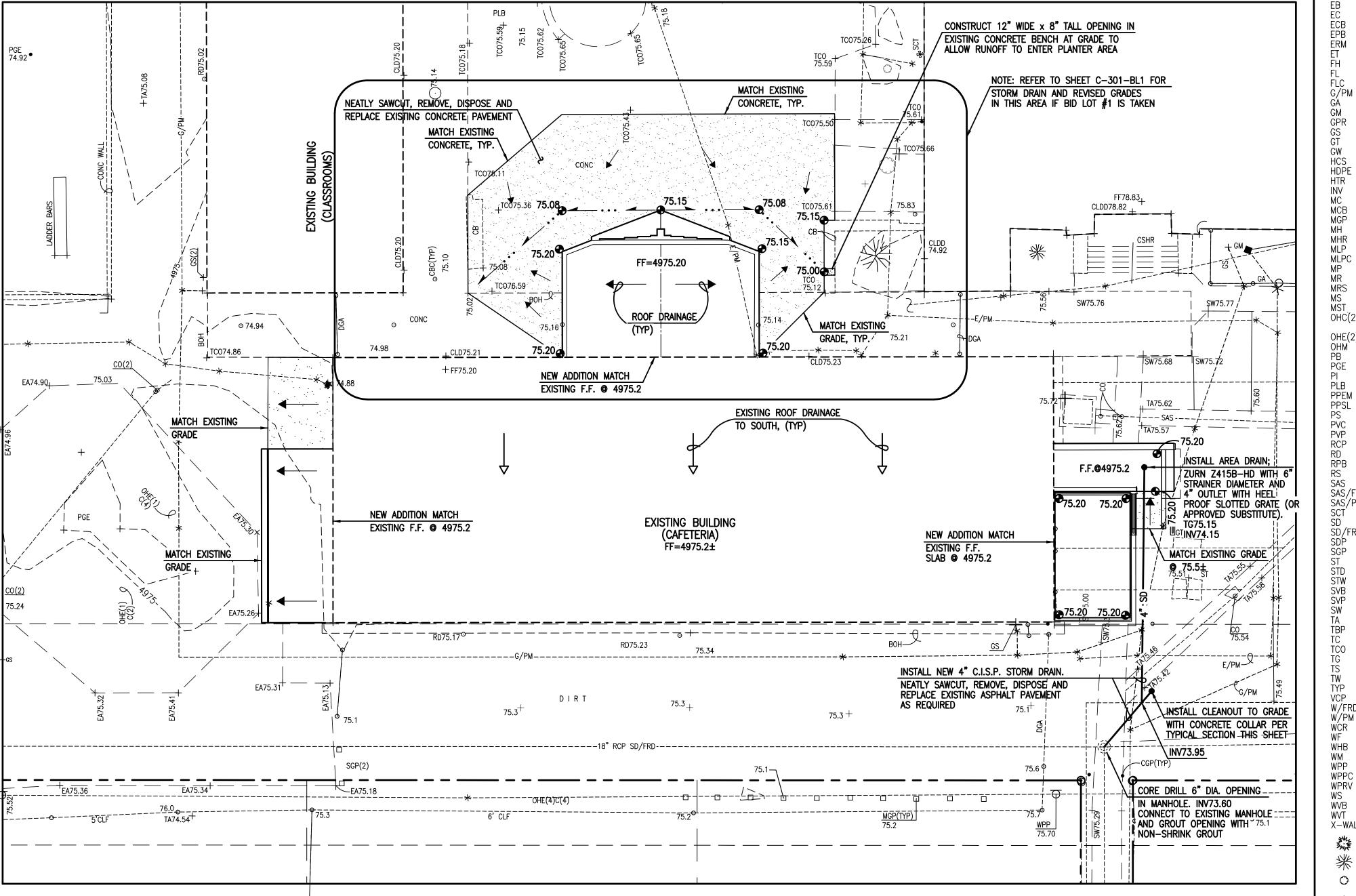
C-301-BL1

CAFETERIA ADDITIONS GRADING PLAN DETAIL

24" TOP OF CONCRETE COLLAR SHALL BE STAMPED WITH LINE SIZE AND DIRECTION. MINIMUM LETTER SIZE SHALL BE 3" IN HEIGHT CLEANOUT CAP ADJUSTED TO GRADE STAMP CONCRETE TO IDENTIFY TYPE OF LINE 'S" FOR SEWER "D" FOR DRAINAGE 3000 PSI CONCRETE PAD

TYPICAL SINGLE CLEANOUT SECTION NOT TO SCALE

TYPICAL CLEANOUT COLLAR DETAIL SCALE: 1" = 1"



CONSTRUCTION NOTES: LEGEND

ASPHALT PATH APPROXIMATE LOCATION ASPHALT ASPH ANTI-SIPHON VALVE BASKETBALL GOAL POST BUILDING OVERHANG BIKE RACK COMMUNICATION CURB AND GUTTER C&G CONCRETE BENCH CONCRETE BUILDING COLUMN CONCRETE GUARD POST CAST IRON PIPE CENTERLINE CENTERLINE OF DOOR CENTERLINE OF DOUBLE DOOR CHAIN LINK FENCE CORRUGATED METAL PIPE CMS CONCRETE MOW STRIP CONCRETE MASONRY UNIT SANITARY SEWER CLEANOUT CONC CONCRETE CONCRETE PIPE CONCRETE PICNIC TABLE CPT CONCRETE RAMP CONCRETE STEPS CONCRETE STEPS WITH METAL HANDRAIL CONCRETE SIDEWALK CONCRETE TRASH CAN CONCRETE WALL DOUBLE GATE DRIVEWAY ELECTRIC LINE BY PAINT MARK EDGE OF ASPHALT ELECTRIC BOX ELECTRIC CONDUIT ELECTRIC CABINET ELECTRIC PULLBOX ELECTRICAL ROOM

CSW CTC DGA

ELECTRIC TRANSFORMER FIRE HYDRANT FLOWLINE FIRE LINE CONNECTION GAS LINE BY PAINT MARK GAS METER GAS PRESSURE REGULATOR GAS SERVICE GREASE TRAP

GUY WIRE ANCHOR HANDICAP SIGN HCS HIGH DENSITY POLYETHYLENE PIPE HTR HEATER INVERT ELEVATION METAL COLUMN METER CAN WITH BIB VALVE METAL GUARD POST MANHOLE

MHR METAL HANDRAIL MLP METAL LIGHT POLE METAL LIGHT POLE WITH CONCRETE BASE MLPC METAL POLE METAL RAMP METAL RAMP WITH STEPS MRS METAL SIGN

METAL STEPS OHC(2) OVERHEAD COMMUNICATION LINE # OF LINES) DVERHEAD ELECTRIC LINE (# OF LINES) OHE(2)OVERHEAD ELECTRIC MAST PARKING BUMPER PLAYGROUND EQUIPMENT PAINTED ISLAND

PLASTIC BENCH WOOD POWER POLE WITH ELECTRIC METER WOOD POWER POLE WITH STREET LIGHT PARKING STRIPE POLYVINYL CHLORIDE PIPE PAVING PATCH REINFORCED CONCRETE PIPE ROOF DRAIN ROW OF PARKING BUMPERS

RUBBER SURFACE SANITARY SEWER SANITARY SEWER LINE FROM RECORD DRAWING SAS/PM SANITARY SEWER LINE BY PAINT MARK SPRINKLER CONTROL TIMER STORM DRAIN STORM DRAIN LINE FROM RECORD DRAWING SERVICE DROP POLE

SD/FRD STEEL GUARD POST SAND TRAP STANDARD STUCCO WALL SPRINKLER VALVE BOX SEWER VENT PIPE SIDEWALK TOP OF ASPHALT

TETHER BALL POLE TOP OF CURB TOP OF CONCRETE TOP OF GRATE TRAFFIC SIGN TOP OF WALL TYPICAL VITRIFIED CLAY PIPE WATER LINE FROM RECORD DRAWING WATER LINE BY PAINT MARK W/PM WCR

WHEELCHAIR RAMP WATER FOUNTAIN WATER HOT BOX WATER METER WOOD POWER POLE WOOD POWER POLE WITH CONDUIT WATER PRESSURE REGULATOR VALVE WOOD STEPS WATER VALVE BOX WATER VAULT

 $\mathsf{X}\mathsf{-WALK}$ PAINTED CROSSWALK CONIFEROUS TREE DECIDUOUS TREE

WPRV

SHRUB PAINTED UTILITY MARKER 1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM 260-1990

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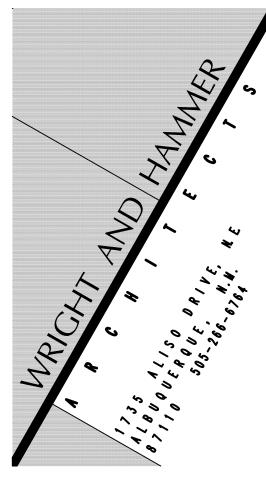
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GRADING LEGEND:

INVERT TOP OF ASPHALT PAVEMENT TOP OF CURB TOP OF GRATE + 75.61 **EXISTING SPOT ELEVATION 76.85** PROPOSED SPOT ELEVATION **___** ... EXISTING FLOWLINE PROPOSED FLOWLINE _ -4978- -EXISTING CONTOUR -----76-----PROPOSED CONTOUR EXISTING DIRECTION OF FLOW $\overline{}$ PROPOSED DIRECTION OF FLOW RIGHT OF WAY LINE _---PUBLIC EASEMENT LINE _ __ _ HIGH POINT / DIVIDE PROPOSED CONCRETE

PROPOSED ASPHALT PAVING



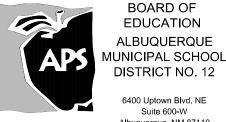
WRIGHT AND HAMMER ARCHITECTS

CONTACT INFORMATION: DENISE HAMMER, PROJECT ARCHITECT 1735 ALISO DRIVE, NE ALBUQUERQUE, NM 87110 505-266-6764 Denise@WrightandHammer.com



Consulting Group

6010-B MIDWAY PARK BLVD. NE **ALBUQUERQUE, NEW MEXICO 87109** PHONE: 505.345.4250 FAX: 505.345.4254 www.highmesacg.com



DISTRICT NO. 12 6400 Uptown Blvd. NE Albuquerque, NM 87110

MacARTHUR **ELEMENTARY SCHOOL**

KINDERGARTEN ADDITION CAFETERIA ADDITION & IMPROVEMENTS RE-ROOFING

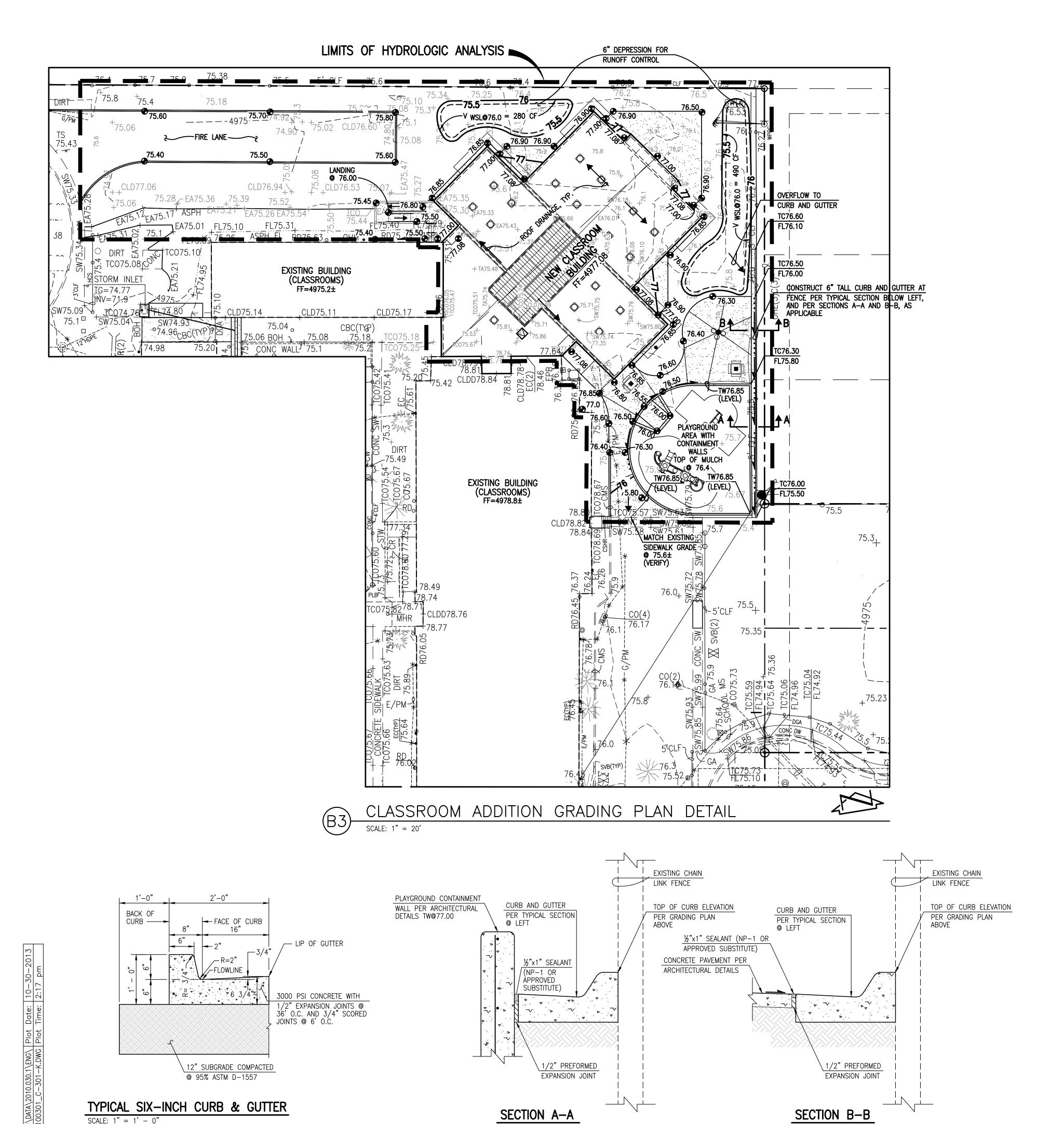
OWNER'S CONTACT: MYRON JOHNSON, ARCHITECT FACILITIES DESIGN & CONSTRUCTION 915 OAK STREET, SE ALBUQUERQUE, NM 87106 505-848-8811

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			11/1/13	ISSUE DATE			
		MARK	DATE	DESCRIPTION			
		ISSUE INFORMATION					
		PROJECT NO.: 0303.001.40105					

WRIGHT & HAMMER ARCHITECTS 2013 **CAFETERIA**

GRADING PLAN SECTIONS AND DETAILS

C-301-C



SURVEY LEGEND: ASPHALT PATH APPROXIMATE LOCATION ASPH **ASPHALT** ASV BGP ANTI-SIPHON VALVE BASKETBALL GOAL POST BOH BUILDING OVERHANG BIKE RACK COMMUNICATION CURB AND GUTTER CONCRETE BENCH CONCRETE BUILDING COLUMN CONCRETE GUARD POST CAST IRON PIPE CENTERLINE CENTERLINE OF DOOR CENTERLINE OF DOUBLE DOOR CHAIN LINK FENCE CMP CORRUGATED METAL PIPE CMS CONCRETE MOW STRIP CMU CONCRETE MASONRY UNIT SANITARY SEWER CLEANOUT CONC CONCRETE CONCRETE PIPE CPT CONCRETE PICNIC TABLE CONCRETE RAMP CONCRETE STEPS CONCRETE STEPS WITH METAL HANDRAIL CSW CONCRETE SIDEWALK CTC CONCRETE TRASH CAN CONCRETE WALL DGA DOUBLE GATE DRIVEWAY ELECTRIC LINE BY PAINT MARK EDGE OF ASPHALT ELECTRIC BOX ELECTRIC CONDUIT ELECTRIC CABINET ELECTRIC PULLBOX ERM ELECTRICAL ROOM ELECTRIC TRANSFORMER FIRE HYDRANT FLOWLINE FIRE LINE CONNECTION GAS LINE BY PAINT MARK G/PM GAS METER GPR GAS PRESSURE REGULATOR GAS SERVICE GREASE TRAF GUY WIRE ANCHOR HCS HANDICAP SIGN HIGH DENSITY POLYETHYLENE PIPE HTR HEATER INVERT ELEVATION INV METAL COLUMN METER CAN WITH BIB VALVE MCB METAL GUARD POST MANHOLE MHR METAL HANDRAIL MLP METAL LIGHT POLE METAL LIGHT POLE WITH CONCRETE BASE MLPC METAL POLE METAL RAMP METAL RAMP WITH STEPS MRS MS METAL SIGN METAL STEPS MST OVERHEAD COMMUNICATION LINE # OF LINES) ÖVERHEAD ELECTRIC LINE (# OF LINES) OVERHEAD ELECTRIC MAST PARKING BUMPER PLAYGROUND EQUIPMENT PAINTED ISLAND PLASTIC BENCH WOOD POWER POLE WITH ELECTRIC METER PPEM WOOD POWER POLE WITH STREET LIGHT PS PVC PARKING STRIPE POLYVINYL CHLORIDE PIPE PVP PAVING PATCH RCP REINFORCED CONCRETE PIPE ROOF DRAIN ROW OF PARKING BUMPERS RUBBER SURFACE SANITARY SEWER SAS/FRD SANITARY SEWER LINE FROM RECORD DRAWING SANITARY SEWER LINE BY PAINT MARK SPRINKLER CONTROL TIMER STORM DRAIN STORM DRAIN LINE FROM RECORD DRAWING SERVICE DROP POLE STEEL GUARD POST SAND TRAP STD STANDARD STW STUCCO WALL SPRINKLER VALVE BOX SEWER VENT PIPE SIDEWALK TOP OF ASPHALT TETHER BALL POLE TOP OF CURB TOP OF CONCRETE TOP OF GRATE TRAFFIC SIGN TOP OF WALL TYP TYPICAL VITRIFIED CLAY PIPE WATER LINE FROM RECORD DRAWING WATER LINE BY PAINT MARK W/PM WCR WHEELCHAIR RAMP WATER FOUNTAIN WATER HOT BOX WHB WATER METER WPP WOOD POWER POLE WOOD POWER POLE WITH CONDUIT WATER PRESSURE REGULATOR VALVE WPRV

WOOD STEPS

WATER VAULT

X-WALK PAINTED CROSSWALK

SHRUB

ZWZ ZWZ

 \circ

WATER VALVE BOX

CONIFEROUS TREE

DECIDUOUS TREE

PAINTED UTILITY MARKER

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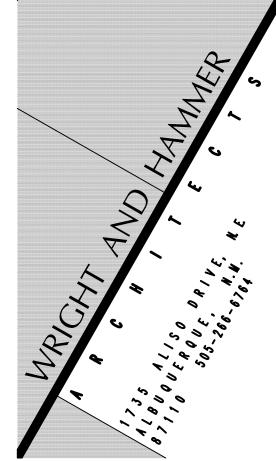
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- WHEN APPLICABLE, CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" FROM THE CITY AND/OR FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION.

DESIGN SURVEY NOTE:

THIS IS NOT A BOUNDARY SURVEY; DATA IS SHOWN FOR ORIENTATION ONLY. THE BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON A UNRECORDED BOUNDARY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS 11184, DATED 01/21/2010 (2008.194.4) THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON THE TOPOGRAPHIC SURVEY PREPARED BY HIGH MESA CONSULTING NMPS 11184, DATED 01/21/2010 (2008.194.4)

DESIGN GRADING LEGEND:

INV	INVERT
TA	TOP OF ASPHALT PAVEMENT
TC	TOP OF CURB
TG	TOP OF GRATE
+ 75.61	EXISTING SPOT ELEVATION
→ 76.85	PROPOSED SPOT ELEVATION
• • • •	EXISTING FLOWLINE
	PROPOSED FLOWLINE
4978	EXISTING CONTOUR
 76 	PROPOSED CONTOUR
←	EXISTING DIRECTION OF FLOW
←	PROPOSED DIRECTION OF FLOW
	RIGHT OF WAY LINE
	PUBLIC EASEMENT LINE
‡	HIGH POINT / DIVIDE
	PROPOSED CONCRETE



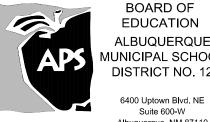
WRIGHT AND HAMMER ARCHITECTS

CONTACT INFORMATION: DENISE HAMMER, PROJECT ARCHITECT 1735 ALISO DRIVE, NE ALBUQUERQUE, NM 87110 505-266-6764 Denise@WrightandHammer.com



Consulting Group

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MUNICIPAL SCHOOL DISTRICT NO. 12 6400 Uptown Blvd. NE Suite 600-W Albuquerque, NM 87110

MacARTHUR **ELEMENTARY SCHOOL**

KINDERGARTEN ADDITION CAFETERIA ADDITION & IMPROVEMENTS RE-ROOFING

OWNER'S CONTACT: MYRON JOHNSON, ARCHITECT FACILITIES DESIGN & CONSTRUCTION 915 OAK STREET, SE ALBUQUERQUE, NM 87106 505-848-8811

	1					
		11/1/13	ISSUE DATE			
	MARK	DATE	DESCRIPTION			
	ISSUE INFORMATION PROJECT NO.: 0303.001.40105					

WRIGHT & HAMMER ARCHITECTS 2013

KINDERGARTEN

GRADING PLAN SECTIONS AND DETAILS

C-301-K