City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: Kindergarten and Cafeteria Addition Building Permit #: _____ City Drainage #: F14/D038

DRB#: N/A EPC#: N/A Work Order#: N/A

Legal Description: Unplatted

City Address: 1100 Douglas MacArthur Rd. NW, Albuquerque, NM 87107

Engineering Firm: High Mesa Consulting Group Contact: Graeme Means

Address: 6010 Midway Park Blvd. NE Albuquerque, New Mexico 87109

Phone#: (505)345-4250 Fax#: (505)345-4254 E-mail: gmeans@highmesacg.com

Owner: APS Dept. Facilities Design & Construction Contact: Architect

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Architect: Wright and Hammer Architects Contact: Denise Hammer

Address: 1735 Aliso Drive, NE Albuquerque, New Mexico 87110

Phone#: (505)266-6764 Fax#: _____ E-mail: Denise@WrightandHamme

Surveyor: High Mesa Consulting Group Contact: Chuck Cala

Address: 6010 Midway Park Blvd. NE Albuquerque, New Mexico 87109

Phone#: (505)345-4250 Fax#: (505)345-4254 E-mail: ccala@highmesacg.com

Contractor: Anchor-Built Contact: Rosendo Garcia

Address: 304 Indiana St. SE, Albuquerque, New Mexico 87108

Phone#: (505)342-2452 Fax#: _____ E-mail: rgarcia@anchorbuilt.com

TYPE OF SUBMITTAL:

- ____ DRAINAGE REPORT
- ____ DRAINAGE PLAN 1st SUBMITTAL
- ____ DRAINAGE PLAN RESUBMITTAL
- ____ CONCEPTUAL G & D PLAN
- ____ GRADING PLAN
- ____ EROSION & SEDIMENT CONTROL PLAN (ESC)
- X ENGINEER'S CERT (HYDROLOGY)
- ____ CLOMR/LOMR
- ____ TRAFFIC CIRCULATION LAYOUT (TCL)
- ____ ENGINEER'S CERT (TCL)
- ____ ENGINEER'S CERT (DRB SITE PLAN)
- ____ ENGINEER'S CERT (ESC)
- ____ SO-19
- ____ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ____ SIA/FINANCIAL GUARANTEE RELEASE
- ____ PRELIMINARY PLAT APPROVAL
- ____ S. DEV. PLAN FOR SUB'D APPROVAL
- ____ S. DEV. FOR BLDG. PERMIT APPROVAL
- ____ SECTOR PLAN APPROVAL
- ____ FINAL PLAT APPROVAL
- X CERTIFICATE OF OCCUPANCY (PERM) FOR CAFETERIA, TEMP FOR KINDERGARTEN
- ____ CERTIFICATE OF OCCUPANCY (TCL TEMP)
- ____ FOUNDATION PERMIT APPROVAL
- ____ BUILDING PERMIT APPROVAL
- ____ GRADING PERMIT APPROVAL
- ____ PAVING PERMIT APPROVAL
- ____ WORK ORDER APPROVAL
- ____ GRADING CERTIFICATION
- ____ SO-19 APPROVAL
- ____ ESC PERMIT APPROVAL
- ____ ESC CERT. ACCEPTANCE
- ____ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED: ____ Yes X No ____ Copy Provided

DATE SUBMITTED: 07/13/2015 By: Greame Means

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the followin

1. **Conceptual Grading and Drainage Plan**: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
3. **Drainage Report**: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

DESIGN GRADING LEGEND:

INV	INVERT
TA	TOP OF ASPHALT PAVEMENT
TC	TOP OF CURB
TG	TOP OF GRATE
+ 20.05	EXISTING SPOT ELEVATION
14.00	PROPOSED SPOT ELEVATION
	EXISTING FLOWLINE
	PROPOSED FLOWLINE
4920	EXISTING CONTOUR
20	PROPOSED CONTOUR
	EXISTING DIRECTION OF FLOW
	PROPOSED DIRECTION OF FLOW
	RIGHT OF WAY LINE
	PUBLIC EASEMENT LINE
	HIGH POINT / DIVIDE
	PROPOSED CONCRETE

D4 VICINITY MAP F-14
SCALE: 1" = 750'

D5 FIRM 119 of 825
SCALE: 1" = 500' September 26, 2008

WRIGHT AND HAMMER ARCHITECTS

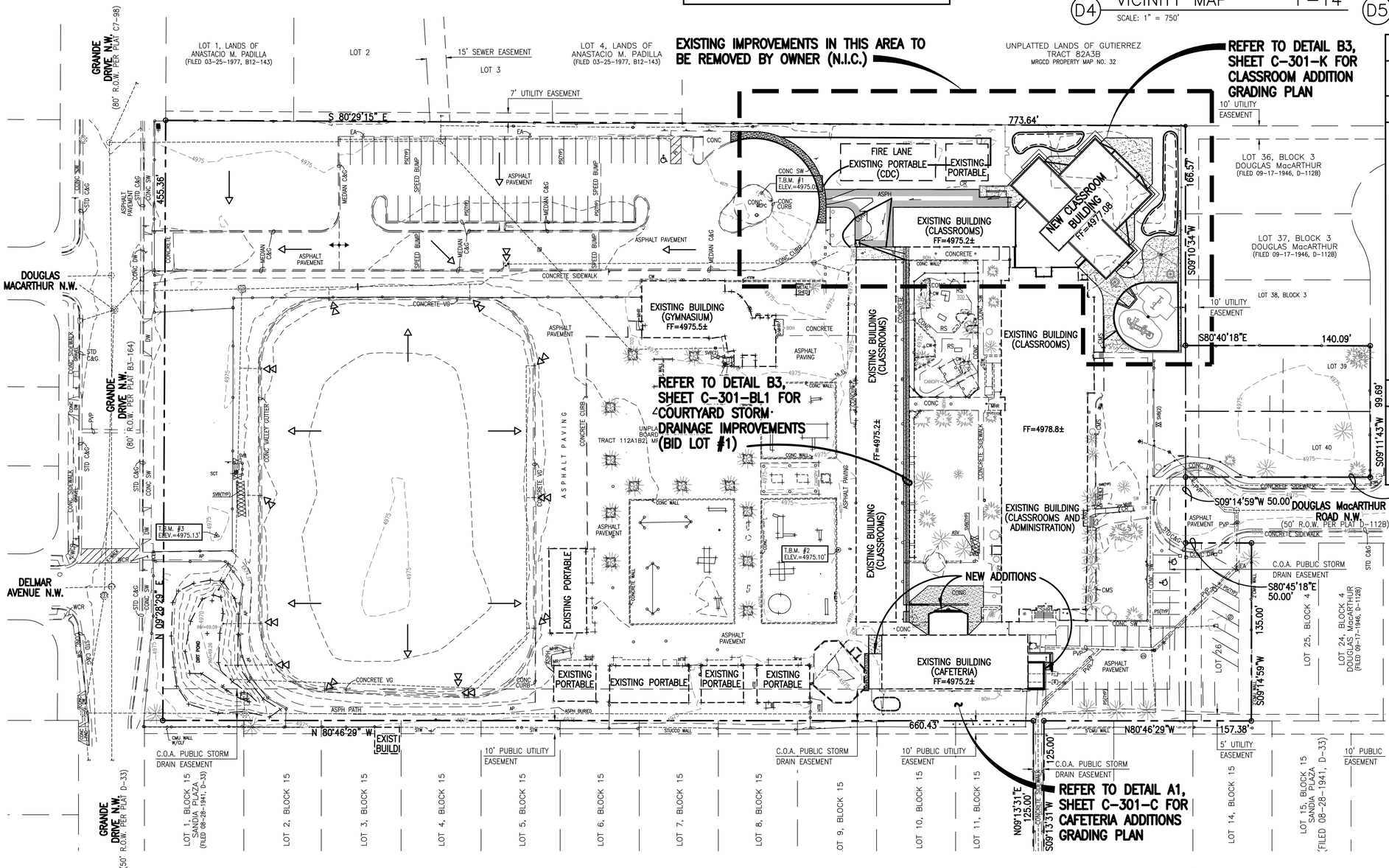
1735 ALISO DRIVE, NE
ALBUQUERQUE, N.M.
87110
505-266-6764

WRIGHT AND HAMMER ARCHITECTS

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

J. GRAEME MEANS
NEW MEXICO
13676
REGISTERED PROFESSIONAL ENGINEER
10-21-15
7-14-15

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



A1 OVERALL GRADING SITE PLAN
SCALE: 1" = 40'

LEGAL DESCRIPTION

A TRACT OF LAND LOCATED WITHIN THE CORPORATE LIMITS OF THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO,

BENCHMARKS

PROJECT BENCHMARK
ACS 1 3/4" ALUMINUM DISK STAMPED "ACS BM, 17-F13", EPOXIED ON TOP OF THE CONCRETE CURB RETURN, IN THE ENE QUADRANT OF THE INTERSECTION OF GRIEGOS ROAD AND GUADALUPE TRAIL N.W.
ELEVATION = 4973.334 FEET (NAVD 1988)

TEMPORARY BENCHMARK (T.B.M.) #1
A #5 REBAR WITH CAP STAMPED "HMCG CONTROL NMPS 11184", AS SHOWN ON THIS SHEET.
ELEVATION = 4975.05 FEET (NAVD 1988)

TEMPORARY BENCHMARK (T.B.M.) #2
A P.K. NAIL IN ASPHALT PAVEMENT, AS SHOWN ON THIS SHEET.
ELEVATION = 4975.10 FEET (NAVD 1988)

TEMPORARY BENCHMARK (T.B.M.) #3
USC&GS BRASS DISK STAMPED "DOUGLAS 1969", SET IN CONCRETE POST 0.1' ABOVE GROUND, ON THE WEST SIDE OF THE DOUGLAS MACARTHUR ELEMENTARY SCHOOL AS SHOWN ON THIS SHEET.
ELEVATION = 4975.134 FEET (NAVD 1988)

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)

BOARD OF EDUCATION
ALBUQUERQUE 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

MARK	DATE	DESCRIPTION
2	07/15	ENGINEER'S CERTIFICATION
1	01/15	PAVING TO BUS ROAD
	11/1/13	ISSUE DATE
ISSUE INFORMATION		
PROJECT NO.: 0303.001.40105		

KINDERGARTEN

OVERALL GRADING SITE PLAN

RECORD DRAWING

2014.183.1
~~2010.030.1~~

C-101

File Path:P:\DATA\2014 #PS\2014.183.1\DWG\[V2] Plot Date: 07-14-2015
File Name: 141831_C-101-RD.DWG Plot Time: 09:07 am

DRAINAGE PLAN

I. INTRODUCTION AND EXECUTIVE SUMMARY

THIS PROJECT, LOCATED IN THE NORTH VALLEY OF THE ALBUQUERQUE METROPOLITAN AREA, REPRESENTS A MODIFICATION TO AN EXISTING ELEMENTARY SCHOOL SITE WITHIN AN INFILL AREA. THE PURPOSE OF THIS PROJECT IS TO PROVIDE IMPROVED DRAINAGE TO THE EXISTING COURTYARD, CONSTRUCT NEW ADDITIONS TO THE EXISTING CAFETERIA BUILDING, AND CONSTRUCT A NEW KINDERGARTEN CLASSROOM BUILDING ADDITION. THE DRAINAGE CONCEPT WILL BE TO MAINTAIN THE EXISTING DRAINAGE PATTERNS OF THE SITE AND RETAIN ANY INCREASE IN DEVELOPED RUNOFF GENERATED ONSITE.

THIS SUBMITTAL IS MADE IN SUPPORT OF BUILDING PERMIT WITHIN THE JURISDICTION OF THE CITY OF ALBUQUERQUE.

II. PROJECT DESCRIPTION

AS SHOWN BY THE VICINITY MAP, THE SCHOOL SITE IS LOCATED NEAR THE INTERSECTION OF DOUGLAS MACARTHUR NW AND GRANDE DRIVE NW. THE PROPERTY IS UNPLATTED. AS SHOWN BY PANEL 119 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS PUBLISHED BY FEMA FOR BERNALILLO COUNTY, NEW MEXICO, SEPTEMBER 26, 2008, THIS SITE LIES WITHIN A DESIGNATED ZONE X FLOOD HAZARD ZONE, AN AREA OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS LESS THAN 1 FOOT.

III. BACKGROUND DOCUMENTS

THE PREPARATION OF THIS PLAN RELIED UPON THE FOLLOWING DOCUMENTS:

- TOPOGRAPHIC SURVEY PREPARED BY HIGH MESA CONSULTING GROUP (NMPS 11184) DATED 01-21-2010. THIS REFERENCED SURVEY PROVIDES THE BASIS FOR THE EXISTING CONDITIONS OF THE PROJECT SITE.
- GRADING AND DRAINAGE PLAN FOR DOUGLAS MACARTHUR SCHOOL PREPARED BY WILSON & COMPANY, DATED 06-17-1994. THIS PLAN SUPPORTED CONSTRUCTION OF THE MINI-GYMNASIUM AND PAVED BUS DROP OFF LOOP (NOW EXISTING) AND IDENTIFIED THE DRAINAGE BASINS 101, 102, AND 103 FOR THE SITE. THE PROPOSED IMPROVEMENTS LIE WITHIN BASIN 101 AND 102 OF THE 1994 PLAN.

IV. EXISTING CONDITIONS

THE PROPOSED PROJECT SITE INCLUDES THREE AREAS OF CONSTRUCTION, ALL WITHIN THE EASTERN PORTION OF THE SITE. THESE AREAS ARE 1) THE CAFETERIA BUILDING, 2) THE EXISTING COURTYARD, AND 3) THE EXISTING PLAYGROUND AND CLASSROOM PORTABLES AREA AT THE NORTHEAST CORNER OF THE SITE. THE ENTIRE SITE IS GENERALLY FLAT WITH MINIMAL TOPOGRAPHY, EXHIBITING POORLY DEFINED DRAINAGE PATTERNS.

RUNOFF FROM THE EXISTING CAFETERIA BUILDING LACKS WELL DEFINED DRAINAGE AS THE SITE IS GENERALLY FLAT. OVERFLOW APPEARS TO SHEET FLOW IN A WESTERLY DIRECTION TO ULTIMATELY DRAIN TO AN EXISTING DETENTION POND AT THE SOUTHWEST CORNER OF THE SCHOOL SITE THAT DISCHARGES TO THE EXISTING PUBLIC STORM DRAIN WITHIN GRANDE DRIVE NW.

THE EXISTING COURTYARD GRADUALLY SLOPES FROM EAST TO WEST, SHEET FLOWING RUNOFF TOWARD THE EXISTING BUILDING AND CAUSING FLOODING OF THE EXISTING BUILDING ENTRANCES. AN EXISTING STORM INLET LIES AT THE NORTHWEST CORNER OF THE MAIN CLASSROOM BUILDING; THIS INLET COLLECTS OVERFLOW RUNOFF FROM THE COURTYARD, AS WELL AS SURFACE FLOWS FROM THE NORTHEAST PORTABLE CLASSROOMS. RUNOFF THAT DRAINS TO THIS INLET IS CONVEYED VIA PRIVATE STORM DRAIN TO ULTIMATELY DISCHARGE TO A PUBLIC STORM DRAIN IN GRANDE DRIVE NW.

RUNOFF GENERATED WITHIN THE NORTHEAST PLAYGROUND APPEARS TO POND IN A LOW POINT IN THIS AREA, WITH OVERFLOW SHEETFLOWING TO THE SOUTHEAST TO AN ONSITE LOW AREA IMMEDIATELY NORTH OF DOUGLAS MACARTHUR ROAD NW; THIS AREA ULTIMATELY OVERFLOWS TO THE PUBLIC STROM DRAIN WITHIN DOUGLAS MACARTHUR ROAD NW.

THERE ARE NO OFFSITE FLOWS IMPACTING THE PROJECT; THE AREAS SURROUNDING THE SCHOOL EXHIBIT PARALLEL TOPOGRAPHY TO THE SCHOOL SITE AND THEREFORE DO NOT CONTRIBUTE OFFSITE FLOWS.

V. DEVELOPED CONDITIONS

THE PROPOSED CONSTRUCTION INCLUDES THREE AREAS: 1) BUILDING ADDITIONS TO THE CAFETERIA BUILDING, 2) DRAINAGE IMPROVEMENTS TO THE COURTYARD, AND 3) A NEW KINDERGARTEN CLASSROOM BUILDING ADDITION AND GRAVEL FIRE LANE AT THE NORTHEAST CORNER OF THE SITE.

THE SMALL ADDITIONS TO THE EXISTING CAFETERIA BUILDING WILL REPLACE IMPERVIOUS PAVEMENT WITH IMPERVIOUS BUILDING. NO CALCULATIONS WERE PREPARED FOR THIS AREA AS THERE IS NO INCREASE IN RUNOFF GENERATED BY THIS DEVELOPMENT. RUNOFF WILL CONTINUE TO DRAIN AWAY FROM THE BUILDING ON PAVED SURFACES.

THE DRAINAGE IMPROVEMENTS TO THE EXISTING COURTYARD CONSIST OF THE REMOVAL AND REPLACEMENT OF A PORTION OF THE EXISTING SIDEWALK WITH THE INCLUSION OF A NEW TRENCH DRAIN. THE NEW TRENCH DRAIN WILL INTERCEPT AND COLLECT THE EXISTING RUNOFF THAT CURRENTLY FLOODS THE EXISTING BUILDING ENTRANCES. RUNOFF COLLECTED WITHIN THE TRENCH DRAIN WILL BE CONVEYED VIA PRIVATE STORM DRAIN EXTENSION TO THE EXISTING STORM INLET AT THE NORTHWEST CORNER OF THE EXISTING BUILDING, AND ULTIMATELY DISCHARGED TO THE PUBLIC STORM DRAIN IN GRANDE DRIVE NW. NO CALCULATIONS WERE PREPARED FOR THIS AREA AS THERE IS NO INCREASE IN RUNOFF GENERATED BY THIS DEVELOPMENT.

A NEW KINDERGARTEN CLASSROOM BUILDING ADDITION AND GRAVEL FIRE LANE WILL REPLACE THE EXISTING PORTABLE CLASSROOMS AND PLAYGROUND LOCATED AT THE NORTHEAST CORNER OF THE SCHOOL SITE. THESE IMPROVEMENTS WILL RESULT IN A MINIMAL INCREASE IN DEVELOPED RUNOFF GENERATED BY THE SITE. TWO SHALLOW (6" +/-) WATER HARVESTING AREAS TO THE NORTHWEST AND EAST OF THE NEW ADDITION ARE SIZED TO RETAIN THE INCREASE IN RUNOFF GENERATED BY THE SITE. IN ADDITION, A NEW CURB AND GUTTER IS PROPOSED ALONG THE EASTERN EDGE OF THE SCHOOL SITE TO PROVIDE POSITIVE DRAINAGE OF OVERFLOW RUNOFF. THE CURB AND GUTTER WILL CONVEY OVERFLOW RUNOFF SOUTH TO THE EXISTING LOW AREA NORTH OF DOUGLAS MACARTHUR ROAD NW, MAINTAINING THE EXISTING DRAINAGE PATTERNS ALREADY ESTABLISHED FOR THIS AREA OF THE SITE.

VI. GRADING PLAN

THE GRADING PLAN SHOWS 1.) EXISTING AND PROPOSED GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'-0" INTERVALS, 2.) THE LIMIT AND CHARACTER OF THE EXISTING AND PROPOSED IMPROVEMENTS, AND 3.) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES. AS SHOWN BY THIS PLAN, THE PROPOSED GRADING AND DRAINAGE IMPROVEMENTS WILL MAINTAIN AND IMPROVE THE CURRENT DRAINAGE PATTERNS FOR THE SITE, RETAINING ONSITE ANY INCREASE IN DEVELOPED RUNOFF GENERATED BY THE IMPROVEMENTS.

VII. CALCULATIONS

CALCULATIONS ANALYZING THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT HAVE BEEN PREPARED FOR THE PORTION OF THE SITE AFFECTED BY THE NEW KINDERGARTEN CLASSROOM ADDITION BUILDING AND FIRE LANE IMPROVEMENTS. THE PROCEDURE FOR 40 ACRE AND SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA, DATED JANUARY 1993, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUNOFF GENERATED. IN ADDITION, THE AVERAGE END-AREA METHOD HAS BEEN USED TO QUANTIFY THE VOLUME OF RUNOFF RETAINED WITHIN THE PROPOSED WATER HARVESTING AREAS. AS DEMONSTRATED BY THESE CALCULATIONS, THE PROPOSED IMPROVEMENTS WILL RESULT IN A MINIMAL INCREASE IN PEAK RATE OF DISCHARGE AND VOLUME OF RUNOFF GENERATED BY THIS PROJECT, WHICH WILL BE MITIGATED BY THE RETENTION OF THE INCREASE WITHIN THE NEW WATER HARVESTING AREAS.

VIII. CONCLUSIONS

THE FOLLOWING CONCLUSIONS HAVE BEEN ESTABLISHED AS A RESULT OF THE EVALUATIONS CONTAINED HEREIN:

1. THE PROPOSED IMPROVEMENTS WILL MAINTAIN OR IMPROVE THE EXISTING DRAINAGE PATTERNS OF THIS PORTION OF THE EXISTING ELEMENTARY SCHOOL SITE.
2. THE PROPOSED IMPROVEMENTS TO THE CAFETERIA AND COURTYARD WILL REPLACE EXISTING IMPERVIOUS LAND TREATMENT WITH NEW IMPERVIOUS LAND TREATMENT, MAINTAINING THE EXISTING VOLUME AND PEAK RATE OF DISCHARGE GENERATED BY THESE AREAS.
3. THE PROPOSED IMPROVEMENTS TO THE KINDERGARTEN CLASSROOM ADDITION WILL RESULT IN A MINIMAL INCREASE IN VOLUME AND PEAK RATE OF DISCHARGE GENERATED BY THIS AREA.
4. THE PROPOSED WATER HARVESTING AREAS ARE SIZED TO RETAIN THE INCREASE IN VOLUME OF RUNOFF GENERATED BY THE KINDERGARTEN CLASSROOM ADDITION.
5. THE PROPOSED IMPROVEMENTS WILL NOT ADVERSELY IMPACT DOWNSTREAM PROPERTIES OR DOWNSTREAM DRAINAGE CONDITIONS.

CALCULATIONS

I. SITE CHARACTERISTICS

A. PRECIPITATION ZONE = 2

B. $P_{6,100} = P_{360}$ = 2.35

C. TOTAL PROJECT AREA (A_T) = 27,280 SF = 0.63 AC

D. LAND TREATMENTS

1. EXISTING LAND TREATMENT

TREATMENT	AREA (SF/AC)	%
A		
B	10,000 / 0.23	36
C	6,620 / 0.15	24
D	10,660 / 0.25	40

2. DEVELOPED LAND TREATMENT

TREATMENT	AREA (SF/AC)	%
A		
B		
C	13,880 / 0.32	51
D	13,400 / 0.31	49

II. HYDROLOGY

A. EXISTING CONDITION

a. VOLUME

$E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D)/A_T$

E_W = ((0.00*0.53) + (0.23*0.78) + (0.15*1.13) + (0.25*2.12))/0.63 = 1.40 IN

$V_{100} = (E_W/12)A_T$ = (1.40/12)0.63 = 0.0732 AC-FT = 3,170 CF

b. PEAK DISCHARGE

$Q_P = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$

$Q_P = Q_{100}$ = ((0.00*1.56) + (0.23*2.28) + (0.15*3.14) + (0.25*4.7)) = 2.2 CFS

B. DEVELOPED CONDITION

a. VOLUME

$E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D)/A_T$

E_W = ((0.00*0.53) + (0.00*0.78) + (0.32*1.13) + (0.31*2.12))/0.63 = 1.62 IN

$V_{100} = (E_W/12)A_T$ = (1.62/12)0.63 = 0.0849 AC-FT = 3,680 CF

b. PEAK DISCHARGE

$Q_P = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$

$Q_P = Q_{100}$ = ((0.00*1.56) + (0.00*2.28) + (0.32*3.14) + (0.31*4.7)) = 2.5 CFS

c. WATER HARVESTING RETENTION PONDING (AVERAGE END-AREA METHOD)

i. NORTHWEST WATER HARVESTING AREA

ELEV	AREA (SF)	VOLUME (CF)	Σ VOLUME (CF)
4975.5	460		
		280	280
4976	660		

ii. EAST WATER HARVESTING AREA

ELEV	AREA (SF)	VOLUME (CF)	Σ VOLUME (CF)
4975.5	840		
		490	490
4976	1120		

iii. TOTAL RETENTION CAPACITY

V_{POND} = 280 + 490 = 770 CF

C. COMPARISON

a. VOLUME

ΔV_{100} = 3680 - 3170 = 510 CF (INCREASE)

b. PEAK DISCHARGE

ΔQ_{100} = 2.5 - 2.2 = 0.3 CFS (INCREASE)

c. RETENTION CAPACITY VS INCREASE IN VOLUME GENERATED

V_{POND} = 770 CF > ΔV_{100} = 510 CF; THEREFORE DECREASE IN RUNOFF DISCHARGED

2 RECORD DRAWING

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.

EROSION CONTROL MEASURES:

1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
2. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
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.

2 ENGINEER'S DRAINAGE CERTIFICATION

I, J. GRAEME MEANS, NMPE 13676, OF THE FIRM HIGH MESA CONSULTING GROUP HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND DRAINED IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 10-31-2013. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT WAS OBTAINED 6-24-2014 BY HIGH MESA CONSULTING GROUP UNDER THE DIRECTION OF CHARLES G. CALA, JR, NMPS 11184, AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

AS SHOWN ON SHEET C-101, THIS PROJECT CONSISTS OF THREE SEPARATE WORK AREAS, EACH WITH THEIR OWN PLAN. SHEET C-301-C IS FOR ADDITIONS TO THE CAFETERIA BUILDING, AND A 180-DAY TEMPORARY CERTIFICATE OF OCCUPANCY WAS APPROVED BY CITY HYDROLOGY ON MARCH 12, 2015, FOR THE CAFETERIA ADDITIONS WITH THE OUTSTANDING REQUIREMENT BEING TO SUBMIT A FORMAL AS-BUILT CERTIFICATION FOR FINAL CERTIFICATE OF OCCUPANCY. SHEET C-301-BL1 IS FOR A TRENCH DRAIN CONSTRUCTED TO IMPROVE COURTYARD DRAINAGE, AND SHEET C-101-K IS FOR A NEW KINDERGARTEN BUILDING, PLAYGROUND, AND EMERGENCY ACCESS ROAD.

THIS CERTIFICATION IS SUBMITTED TO SATISFY CONDITIONS OF APPROVAL FOR BUILDING PERMIT AND TO DOCUMENT COMPLETION OF THE IMPROVEMENTS FOR THE OWNER. THIS SUBMITTAL RECOMMENDS PERMANENT CERTIFICATE OF OCCUPANCY FOR THE CAFETERIA ADDITIONS, AND A TEMPORARY CERTIFICATE OF OCCUPANCY FOR THE KINDERGARTEN ADDITION.

AS NOTED ON SHEET C-301-C, THERE WERE DEVIATIONS TO THE APPROVED PLAN THAT WERE ADDED DURING CONSTRUCTION TO ENHANCE DRAINAGE CONDITIONS. SPECIFICALLY, A VALLEY GUTTER DRAINING TO A GRADED DEPRESSION TO THE SOUTH WAS ADDED TO THE WEST SIDE OF THE WESTERN ADDITION TO ACCEPT AND CONVEY ROOF RUNOFF TO THE SOUTH, AWAY FROM THE PLAYGROUND TO THE WEST.

AS NOTED ON SHEET C-301-BL1, THE COURTYARD TRENCH DRAIN WAS SHORTENED BY APPROXIMATELY 8 FT AND A SECTION NEAR THE SOUTH END WAS ADDED IN A LOCATION WHERE A CONNECTOR PIPE WAS DESIGNED WITH NO SURFACE GRATE. THESE MINOR MODIFICATIONS WERE MADE DURING CONSTRUCTION TO ADJUST TO FIELD CONDITIONS AND MEET THE INTENT OF THE APPROVED PLAN.

AS NOTED ON SHEET C-301-K, THERE ARE TWO AREAS THAT REQUIRE CORRECTION PRIOR TO RECOMMENDATION OF PERMANENT CERTIFICATE OF OCCUPANCY FOR THE KINDERGARTEN BUILDING: 1) THE PAVED AREA WEST OF THE EXISTING BUILDING THAT LIES WEST OF THE NEW KINDERGARTEN. THE PRE-EXISTING ASPHALT PAVEMENT WAS REMOVED DURING CONSTRUCTION AND THE GRADING PLAN WAS MODIFIED TO SHOW REPLACEMENT MEETING THE SAME INTENT OF DRAINING TO THE WEST TO AN EXISTING STORM INLET. INSTEAD OF DRAINING TO THE INLET, THE AS-BUILT CONDITION DRAINS TO A LOW POINT NORTH OF THE INLET THAT IS APPROXIMATELY 0.2 FT BELOW THE GRATE ELEVATION, RESULTING IN STANDING WATER. THIS AREA WILL REQUIRE CORRECTION PRIOR TO RECOMMENDATION FOR PERMANENT CERTIFICATE OF OCCUPANCY, AND 2) A PORTION OF CONCRETE SIDEWALK AND BUILDING APRON WAS NOT CONSTRUCTED AT THE TIME OF THE AS-BUILT SURVEY, AND NEEDS TO BE COMPLETED AND VERIFIED BY SUBSEQUENT SUBMITTAL.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THIS CERTIFICATION DOES NOT ADDRESS ADA COMPLIANCE WHICH IS BEYOND THE SCOPE OF GRADING AND DRAINAGE. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

J. GRAEME MEANS
NMPE NO. 13676

J. GRAEME MEANS NEW MEXICO 13676 REGISTERED PROFESSIONAL ENGINEER

7/14/2015
DATE

WRIGHT AND HAMMER ARCHITECTS

CONTACT INFORMATION:
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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

MARK	DATE	DESCRIPTION
2	07/15	ENGINEER'S CERTIFICATION
1	01/15	NO CHANGE THIS SHEET
	11/1/13	ISSUE DATE

ISSUE INFORMATION

PROJECT NO.: 0303.001.40105

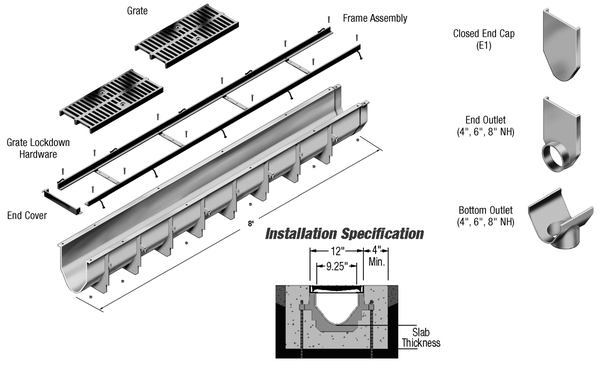
GENERAL

DRAINAGE PLAN AND CALCULATIONS

C-102

2014.183.1
~~2010.030.1~~

File Path:P:\WH\2014 #'S\2014.183.1\DWG\[X] Plot Date: 07-14-2015
File Name:141831_C-102-R2.DWG Plot Time: 09:06 am

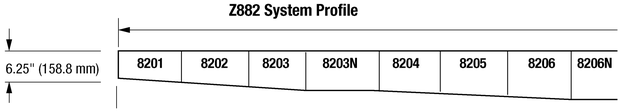


9-1/4" Throat / 12" Overall Width

Z882 Dimensional Data

Trench Number	Shallow Invert Inches	mm	Deep Invert Inches	mm	Max. Flow Rate GPM	LPS	CFS	Approx. Weight (Less Grate) Lbs.	Kg
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	11.25	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	17.25	438	2940	186	6.551	87	39.5
8212	17.25	438	18.25	464	3189	202	7.106	89	40.4

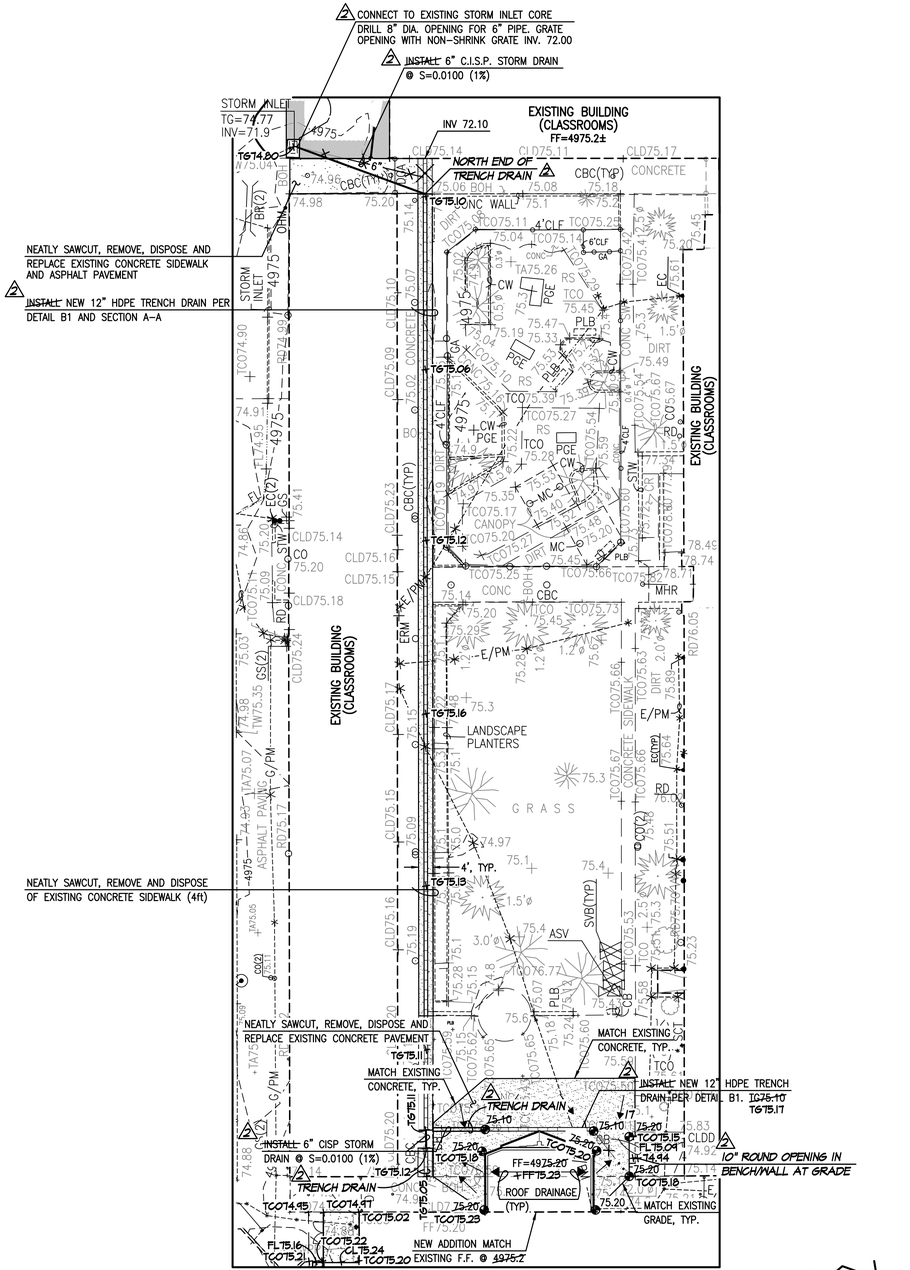
Z882 System Profile



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

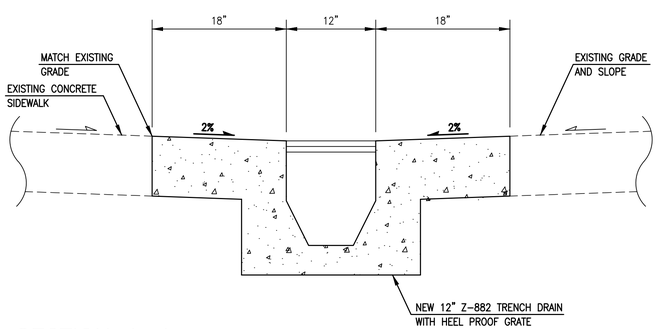
B1 Z882 PERMA-TRENCH – HDPE 12" DRAIN SYSTEM

SCALE: 1" = 2'-0"



B3 COURTYARD STORM DRAINAGE IMPROVEMENTS

SCALE: 1" = 20'



A1 SECTION A-A

NOT TO SCALE

2 RECORD DRAWING LEGEND

~~CONSTRUCT~~	RECORD INFORMATION (VERIFIED BY ENGINEER)
✓	AS-CONSTRUCTED = AS-DESIGNED (VERIFIED BY AS-BUILT SURVEY)
36.42"	RECORD INFORMATION FROM AS-BUILT SURVEY
+75.23	RECORD INFORMATION FROM AS-BUILT SURVEY
◶ 28,96.92	RECORD INFORMATION FROM AS-BUILT SURVEY

* THIS SHEET IS BID LOT #1 *

CONSTRUCTION NOTES:

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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.
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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.

EROSION CONTROL MEASURES:

1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
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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:

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DESIGN DRAINAGE LEGEND:

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

2 **RECORD DRAWING**
FOR CERTIFICATION, SEE SHEET C-102

WRIGHT AND HAMMER ARCHITECTS
1735 ALISO DRIVE, NE
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505-266-6764

WRIGHT AND HAMMER ARCHITECTS

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ISSUE INFORMATION

PROJECT NO.: 0303.001.40105

COURTYARD

COURTYARD STORM DRAINAGE IMPROVEMENTS DETAILS

2014.183.1
~~2010.030.1~~

C-301-BL1

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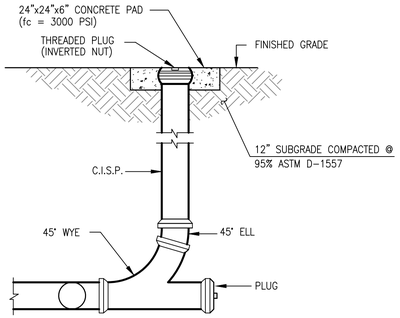
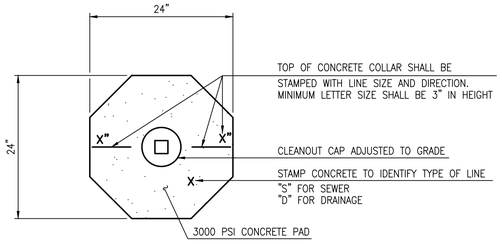


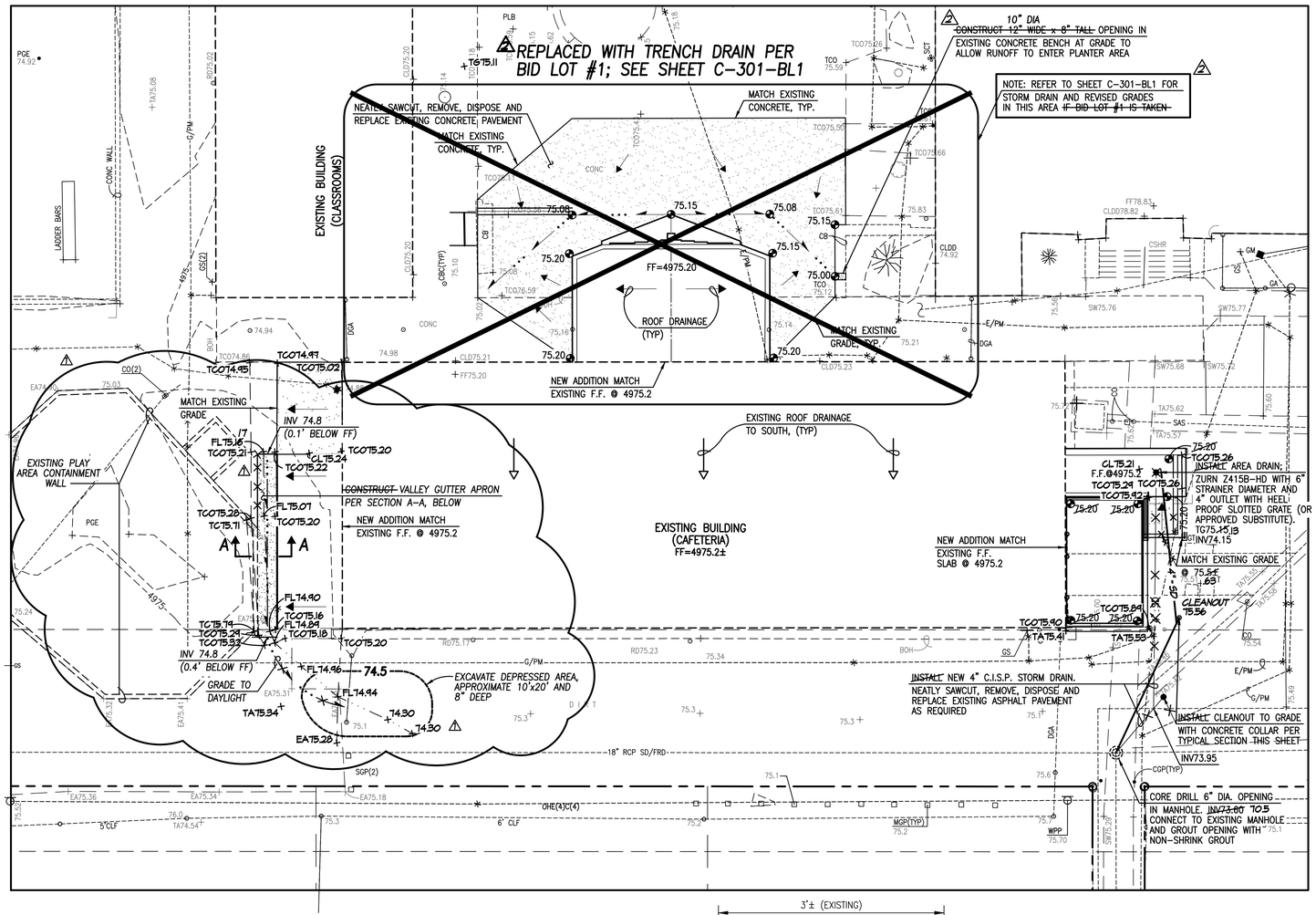
E1 TYPICAL SINGLE CLEANOUT SECTION

NOT TO SCALE



E3 TYPICAL CLEANOUT COLLAR DETAIL

SCALE: 1" = 1'



A1 CAFETERIA ADDITIONS GRADING PLAN DETAIL

SCALE: 1" = 10'

SECTION A-A

(N.T.S.)

RECORD DRAWING

FOR CERTIFICATION, SEE SHEET C-102

LEGEND

AP	ASPHALT PATH
APRX	APPROXIMATE LOCATION
ASPH	ASPHALT
ASV	ANTI-SIPHON VALVE
BGP	BASKETBALL GOAL POST
BOH	BUILDING OVERHANG
BR	BIKE RACK
C	COMMUNICATION
C&G	CURB AND GUTTER
CB	CONCRETE BENCH
CBC	CONCRETE BUILDING COLUMN
CGP	CONCRETE GUARD POST
CI	CAST IRON PIPE
CL	CENTERLINE
CLD	CENTERLINE OF DOOR
CLDD	CENTERLINE OF DOUBLE DOOR
CLF	CHAIN LINK FENCE
CMP	CORRUGATED METAL PIPE
CMS	CONCRETE MOW STRIP
CMU	CONCRETE MASONRY UNIT
CO	SANITARY SEWER CLEANOUT
CONC	CONCRETE
CP	CONCRETE PIPE
CPT	CONCRETE PICNIC TABLE
CR	CONCRETE RAMP
CS	CONCRETE STEPS
CSHR	CONCRETE STEPS WITH METAL HANDRAIL
CSW	CONCRETE SIDEWALK
CTC	CONCRETE TRASH CAN
CW	CONCRETE WALL
DGA	DOUBLE GATE
DW	DRIVEWAY
E/PM	ELECTRIC LINE BY PAINT MARK
EA	EDGE OF ASPHALT
EB	ELECTRIC BOX
EC	ELECTRIC CONDUIT
ECB	ELECTRIC CABINET
EPB	ELECTRIC PULLBOX
ERM	ELECTRICAL ROOM
ET	ELECTRIC TRANSFORMER
FH	FIRE HYDRANT
FL	FLOWLINE
FLC	FIRE LINE CONNECTION
G/PM	GAS LINE BY PAINT MARK
GA	GATE
GM	GAS METER
GPR	GAS PRESSURE REGULATOR
GS	GAS SERVICE
GT	GREASE TRAP
GW	GUY WIRE ANCHOR
HCS	HANDICAP SIGN
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HTR	HEATER
INV	INVERT ELEVATION
MC	METAL COLUMN
MCB	METER CAN WITH BIB VALVE
MGP	METAL GUARD POST
MH	MANHOLE
MHR	METAL HANDRAIL
MLP	METAL LIGHT POLE
MLPC	METAL LIGHT POLE WITH CONCRETE BASE
MP	METAL POLE
MR	METAL RAMP
MRS	METAL RAMP WITH STEPS
MS	METAL SIGN
MST	METAL STEPS
OHC(2)	OVERHEAD COMMUNICATION LINE (# OF LINES)
OHE(2)	OVERHEAD ELECTRIC LINE (# OF LINES)
OHM	OVERHEAD ELECTRIC MAST
PB	PARKING BUMPER
PGE	PLAYGROUND EQUIPMENT
PI	PAINTED ISLAND
PLB	PLASTIC BENCH
PPEM	WOOD POWER POLE WITH ELECTRIC METER
PPSL	WOOD POWER POLE WITH STREET LIGHT
PS	PARKING STRIPE
PVC	POLYVINYL CHLORIDE PIPE
PVP	PAVING PATCH
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RPB	ROW OF PARKING BUMPERS
RS	RUBBER SURFACE
SAS	SANITARY SEWER
SAS/FRD	SANITARY SEWER LINE FROM RECORD DRAWING
SAS/PM	SANITARY SEWER LINE BY PAINT MARK
SCT	SPRINKLER CONTROL TIMER
SD	STORM DRAIN
SD/FRD	STORM DRAIN LINE FROM RECORD DRAWING
SDP	SERVICE DROP POLE
SGP	STEEL GUARD POST
ST	SAND TRAP
STD	STANDARD
STW	STUCCO WALL
SVB	SPRINKLER VALVE BOX
SVP	SEWER VENT PIPE
SW	SIDEWALK
TA	TOP OF ASPHALT
TBP	TETHER BALL POLE
TC	TOP OF CURB
TCO	TOP OF CONCRETE
TG	TOP OF GRATE
TS	TRAFFIC SIGN
TW	TOP OF WALL
TYP	TYPICAL
VCP	VITRIFIED CLAY PIPE
W/FRD	WATER LINE FROM RECORD DRAWING
W/PM	WATER LINE BY PAINT MARK
WCR	WHEELCHAIR RAMP
WF	WATER FOUNTAIN
WHB	WATER HOT BOX
WM	WATER METER
WPP	WOOD POWER POLE
WPPC	WOOD POWER POLE WITH CONDUIT
WPRV	WATER PRESSURE REGULATOR VALVE
WS	WOOD STEPS
WVB	WATER VALVE BOX
WVT	WATER VAULT
X-WALK	PAINTED CROSSWALK
	CONIFEROUS TREE
	DECIDUOUS TREE
	SHRUB
	PAINTED UTILITY MARKER

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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
	PROPOSED ASPHALT PAVING

RECORD DRAWING LEGEND

~~CONSTRUCT~~	RECORD INFORMATION (VERIFIED BY ENGINEER)
✓	AS-CONSTRUCTED = AS-DESIGNED (VERIFIED BY AS-BUILT SURVEY)
38.42'	RECORD INFORMATION FROM AS-BUILT SURVEY
+25.2	RECORD INFORMATION FROM AS-BUILT SURVEY
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WRIGHT AND HAMMER ARCHITECTS

CONTACT INFORMATION:
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CAFETERIA ADDITION & IMPROVEMENTS
•
RE-ROOFING

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

2	07/15	ENGINEER'S CERTIFICATION
1	04/15	APRON
	11/1/13	ISSUE DATE

MARK	DATE	DESCRIPTION
ISSUE INFORMATION		
PROJECT NO.: 0303.001.40105		

CAFETERIA

GRADING PLAN
SECTIONS AND DETAILS

2014.183.1
~~2010.030.1~~

C-301-C

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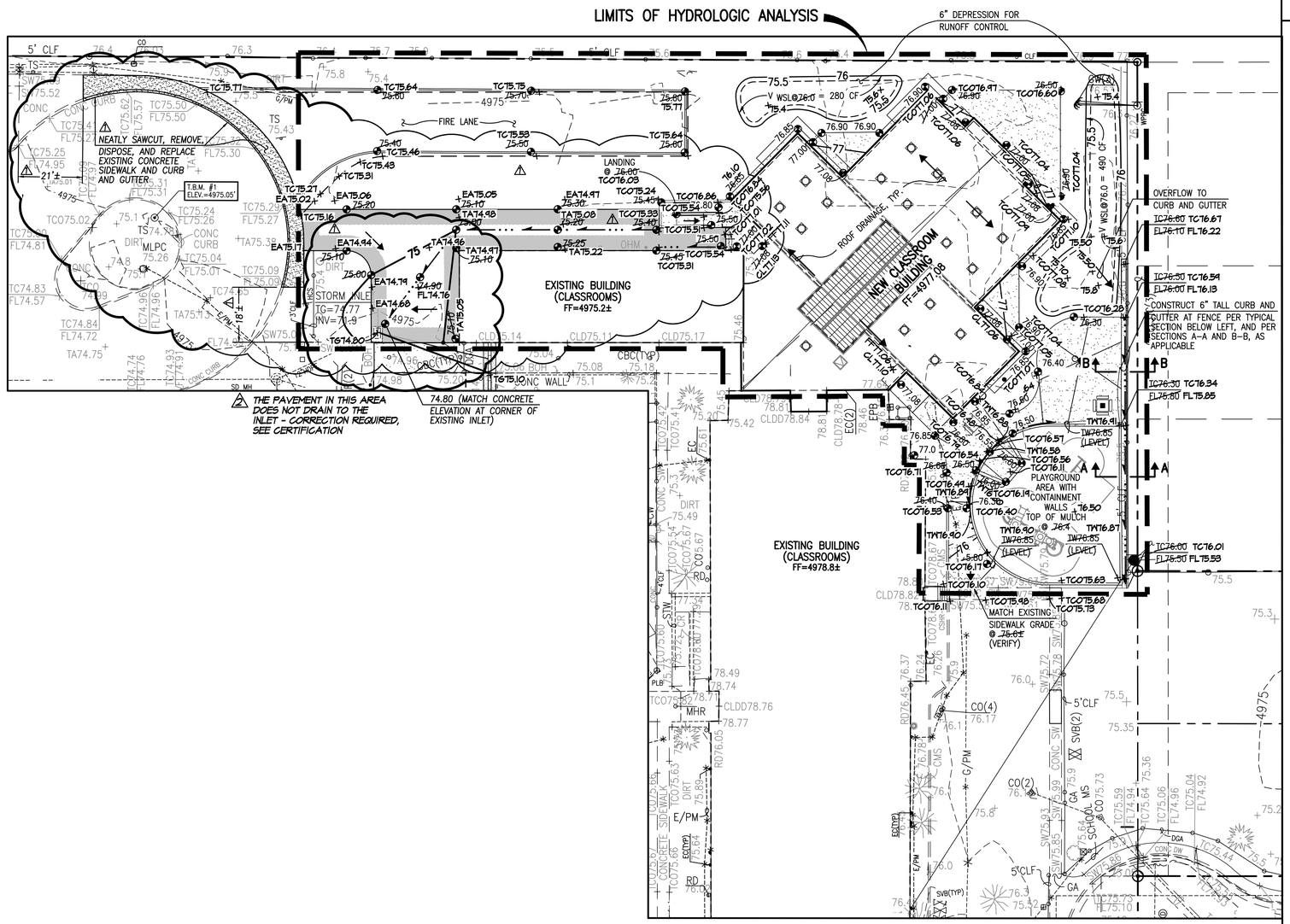
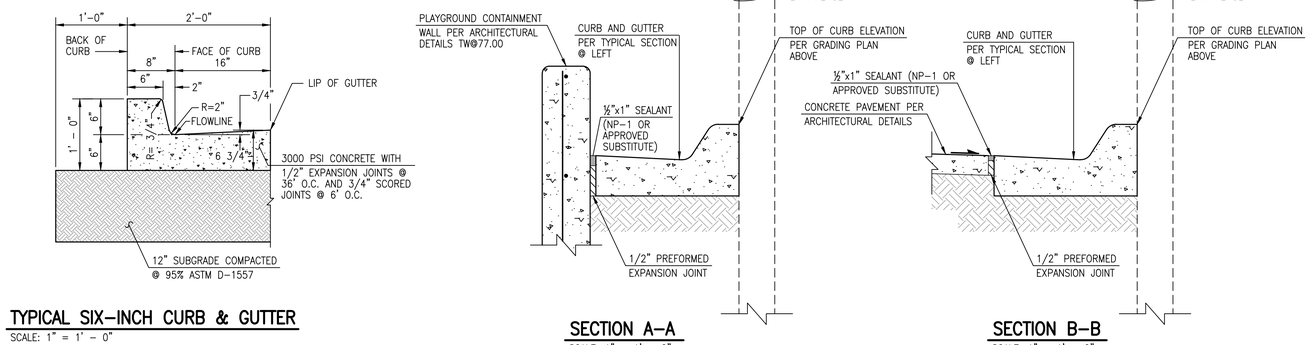
Date: 07-14-2015
Plot Time: 09:05 am



B3 CLASSROOM ADDITION GRADING PLAN DETAIL

SCALE: 1" = 20'



TYPICAL SIX-INCH CURB & GUTTER

SCALE: 1" = 1' - 0"

SECTION A-A

SCALE: 1" = 1' - 0"

SECTION B-B

SCALE: 1" = 1' - 0"

SURVEY LEGEND:

AP	ASPHALT PATH
APRX	APPROXIMATE LOCATION
ASPH	ASPHALT
ASV	ANTI-SIPHON VALVE
BGP	BASKETBALL GOAL POST
BOH	BUILDING OVERHANG
BR	BIKE RACK
C	COMMUNICATION
C&G	CURB AND GUTTER
CB	CONCRETE BENCH
CBC	CONCRETE BUILDING COLUMN
CGP	CONCRETE GUARD POST
CI	CAST IRON PIPE
CL	CENTERLINE
CLD	CENTERLINE OF DOOR
CLDD	CENTERLINE OF DOUBLE DOOR
CLF	CHAIN LINK FENCE
CMP	CORRUGATED METAL PIPE
CMS	CONCRETE MOW STRIP
CMU	CONCRETE MASONRY UNIT
CO	SANITARY SEWER CLEANOUT
CONC	CONCRETE
CP	CONCRETE PIPE
CPT	CONCRETE PICNIC TABLE
CR	CONCRETE RAMP
CS	CONCRETE STEPS
CSHR	CONCRETE STEPS WITH METAL HANDRAIL
CSW	CONCRETE SIDEWALK
CTC	CONCRETE TRASH CAN
CW	CONCRETE WALL
DGA	DOUBLE GATE
DW	DRIVEWAY
E/PM	ELECTRIC LINE BY PAINT MARK
EA	EDGE OF ASPHALT
EB	ELECTRIC BOX
EC	ELECTRIC CONDUIT
ECB	ELECTRIC CABINET
EPB	ELECTRIC PULLBOX
ERM	ELECTRICAL ROOM
ET	ELECTRIC TRANSFORMER
FH	FIRE HYDRANT
FL	FLOWLINE
FLC	FIRE LINE CONNECTION
G/PM	GAS LINE BY PAINT MARK
GA	GATE
GM	GAS METER
GPR	GAS PRESSURE REGULATOR
GS	GAS SERVICE
GT	GREASE TRAP
GW	GUY WIRE ANCHOR
HCS	HANDICAP SIGN
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HTR	HEATER
INV	INVERT ELEVATION
MC	METAL COLUMN
MCB	METER CAN WITH BIB VALVE
MGP	METAL GUARD POST
MH	MANHOLE
MHR	METAL HANDRAIL
MLP	METAL LIGHT POLE
MLPC	METAL LIGHT POLE WITH CONCRETE BASE
MP	METAL POLE
MR	METAL RAMP
MRS	METAL RAMP WITH STEPS
MS	METAL SIGN
MST	METAL STEPS
OHC(2)	OVERHEAD COMMUNICATION LINE (# OF LINES)
OHE(2)	OVERHEAD ELECTRIC LINE (# OF LINES)
OHM	OVERHEAD ELECTRIC MAST
PB	PARKING BUMPER
PGE	PLAYGROUND EQUIPMENT
PI	PAINTED ISLAND
PLB	PLASTIC BENCH
PPEM	WOOD POWER POLE WITH ELECTRIC METER
PPSL	WOOD POWER POLE WITH STREET LIGHT
PS	PARKING STRIPE
PVC	POLYVINYL CHLORIDE PIPE
PVP	PAVING PATCH
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RPB	ROW OF PARKING BUMPERS
RS	RUBBER SURFACE
SAS	SANITARY SEWER
SAS/FRD	SANITARY SEWER LINE FROM RECORD DRAWING
SAS/PM	SANITARY SEWER LINE BY PAINT MARK
SCT	SPRINKLER CONTROL TIMER
SD	STORM DRAIN
SD/FRD	STORM DRAIN LINE FROM RECORD DRAWING
SDP	SERVICE DROP POLE
SGP	STEEL GUARD POST
ST	SAND TRAP
STD	STANDARD
STW	STUCCO WALL
SVB	SPRINKLER VALVE BOX
SVP	SEWER VENT PIPE
SW	SIDEWALK
TA	TOP OF ASPHALT
TBP	TETHER BALL POLE
TC	TOP OF CURB
TCO	TOP OF CONCRETE
TG	TOP OF GRATE
TS	TRAFFIC SIGN
TW	TOP OF WALL
TYP	TYPICAL
VCP	VITRIFIED CLAY PIPE
W/FRD	WATER LINE FROM RECORD DRAWING
W/PM	WATER LINE BY PAINT MARK
WCR	WHEELCHAIR RAMP
WF	WATER FOUNTAIN
WHB	WATER HOT BOX
WM	WATER METER
WPP	WOOD POWER POLE
WPPC	WOOD POWER POLE WITH CONDUIT
WPRV	WATER PRESSURE REGULATOR VALVE
WS	WOOD STEPS
WVB	WATER VALVE BOX
WVT	WATER VAULT
X-WALK	PAINTED CROSSWALK
	CONIFEROUS TREE
	DECIDUOUS TREE
	SHRUB
	PAINTED UTILITY MARKER

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.

EROSION CONTROL MEASURES:

1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
2. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
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 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

RECORD DRAWING LEGEND

CONSTRUCT	RECORD INFORMATION (VERIFIED BY ENGINEER)
✓	AS-CONSTRUCTED = AS-DESIGNED (VERIFIED BY AS-BUILT SURVEY)
36'42"	RECORD INFORMATION FROM AS-BUILT SURVEY
+25.2	RECORD INFORMATION FROM AS-BUILT SURVEY
28,98'42	RECORD INFORMATION FROM AS-BUILT SURVEY

RECORD DRAWING
FOR CERTIFICATION, SEE SHEET C-102

WRIGHT AND HAMMER ARCHITECTS
1735 ALISO DRIVE, NE
ALBUQUERQUE, NM. 87110
505-266-6764

WRIGHT AND HAMMER ARCHITECTS

CONTACT INFORMATION:
DENISE HAMMER, PROJECT ARCHITECT
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Denise@WrightandHammer.com

J. GRAEME MEANS
NEW MEXICO
13676
REGISTERED PROFESSIONAL ENGINEER
10-21-13
7-14-15

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

BOARD OF EDUCATION
ALBUQUERQUE 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

MARK	DATE	DESCRIPTION
2	01/15	ENGINEER'S CERTIFICATION
1	01/15	PAVING TO BUS ROAD
	11/1/13	ISSUE DATE

ISSUE INFORMATION

PROJECT NO.: 0303.001.40105

KINDERGARTEN

GRADING PLAN
SECTIONS AND DETAILS

2014.183.1
~~2010.030.1~~

C-301-K

File Path: P:\WA\2014 #'S\2014.183.1\DWG\
File Name: 141831_C-301-K-R2.DWG
Plot Date: 07-14-2015
Plot Time: 09:00 am

CITY OF ALBUQUERQUE

July 17, 2015

Graeme Means, PE
High Mesa Consulting Group
6010-B Midway Park Blvd NE
Albuquerque, NM 87112

Re: Kindergarten and Cafeteria Addition
1100 Douglas MacArthur Rd NW
Request Permanent C.O. - Accepted
Engineer's Stamp dated: 10-31-13 (F14D038)
Certification dated: 7-14-15

Dear Mr. Means,

Based on the Certification received 7/14/2015, the site is acceptable for release of Certificate of Occupancy by Hydrology.

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

Sincerely,

Rita Harmon, P.E.
Senior Engineer, Hydrology
Planning Department

RR/RH
C: email

PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov