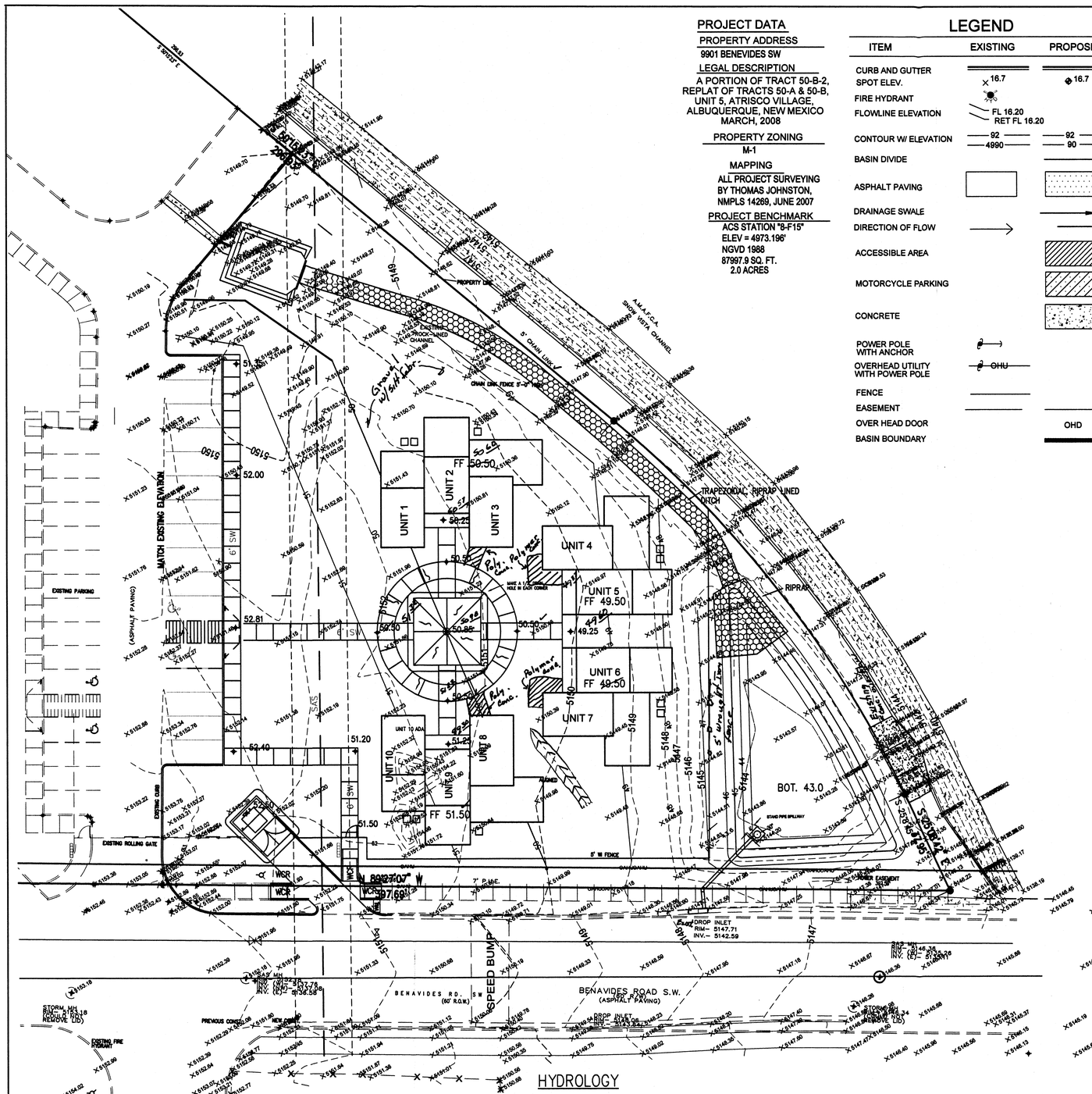


PROJECT DATA

PROPERTY ADDRESS

9901 BENEVIDES SW

LEGAL DESCRIPTION

A PORTION OF TRACT 50-B-2, REPLAT OF TRACTS 50-A & 50-B, UNIT 5, ATRISCO VILLAGE, ALBUQUERQUE, NEW MEXICO
MARCH, 2008

PROPERTY ZONING

M-1

MAPPING

ALL PROJECT SURVEYING BY THOMAS JOHNSTON, NMPLS 14269, JUNE 2007

PROJECT BENCHMARK

ACS STATION "8-F15"
ELEV = 4973.196'
NGVD 1988
87997.9 SQ. FT.
2.0 ACRES

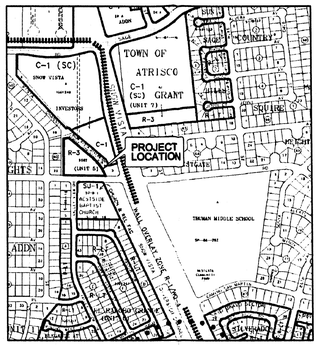
LEGEND

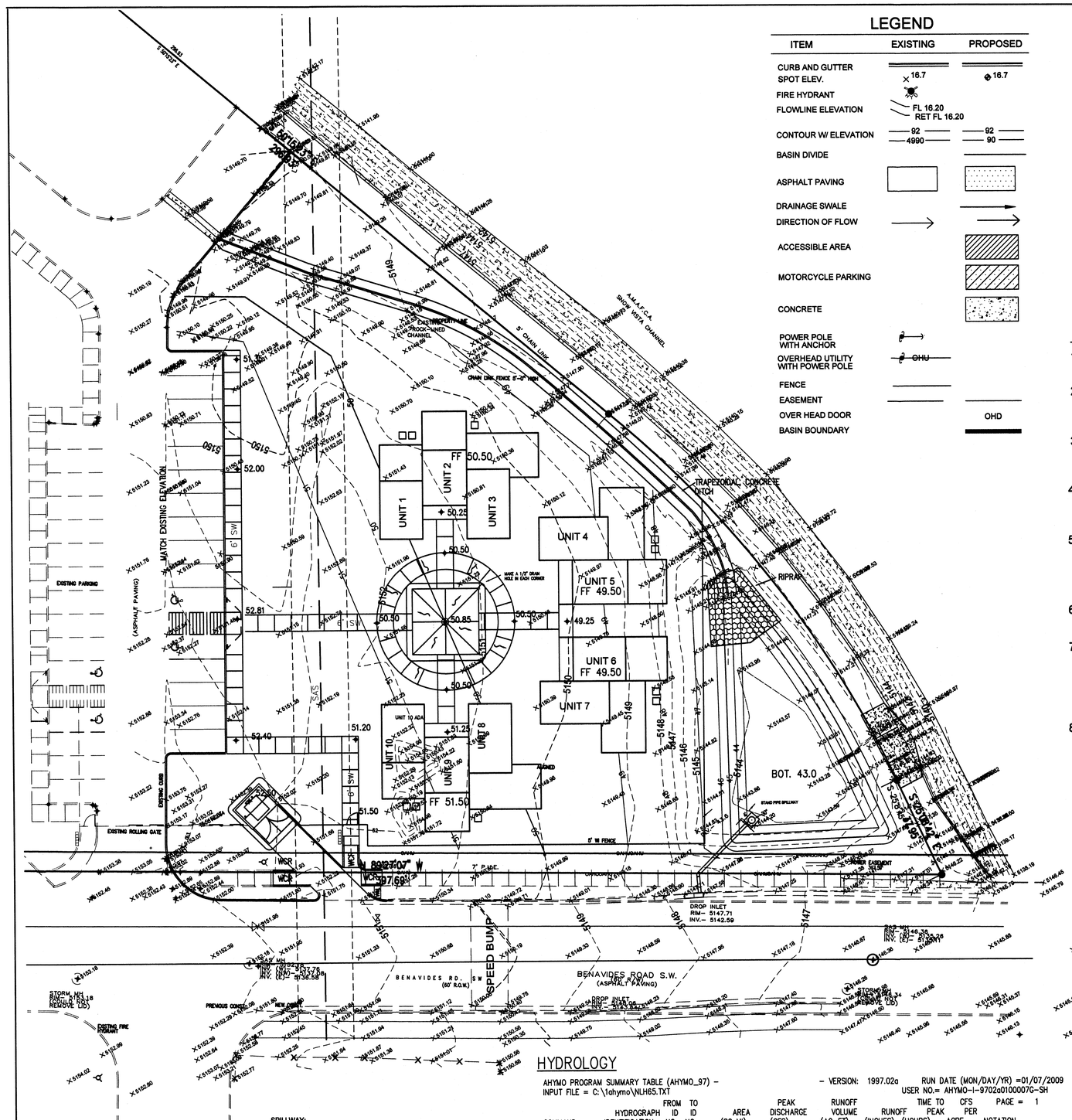
ITEM	EXISTING	PROPOSED
CURB AND GUTTER		
SPOT ELEV.	× 16.7	◆ 16.7
FIRE HYDRANT		
FLOWLINE ELEVATION	FL 16.20 RET FL 16.20	
CONTOUR W/ ELEVATION	92 4990	92 90
BASIN DIVIDE		
ASPHALT PAVING		
DRAINAGE SWALE		
DIRECTION OF FLOW		
ACCESSIBLE AREA		
MOTORCYCLE PARKING		
CONCRETE		
POWER POLE WITH ANCHOR		
OVERHEAD UTILITY WITH POWER POLE	OHU	
FENCE		
EASEMENT		
OVER HEAD DOOR		OHD
BASIN BOUNDARY		

N

20 0 10 20

1 inch = 20ft.


TOWN OF ATRISCO
C-1 (SC)
C-1 (SC) GRANT (UNIT 9)
PROJECT LOCATION
TRUMAN MIDDLE SCHOOL
SOUTH GATE
ADDN
HILLTOP
SUNCREST
SOUTHGATE
BENAVIDES
SOUTHGATE
SOUTHGATE
SOUTHGATE



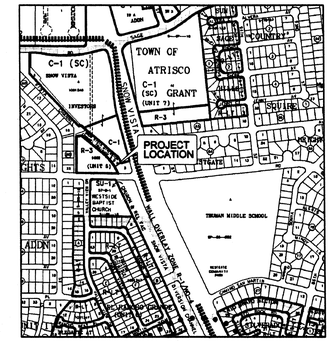
LEGEND

ITEM	EXISTING	PROPOSED
CURB AND GUTTER		
SPOT ELEV.	× 16.7	◆ 16.7
FIRE HYDRANT		
FLOWLINE ELEVATION	FL 16.20 RET FL 16.20	
CONTOUR W/ ELEVATION	92 4990	92 90
BASIN DIVIDE		
ASPHALT PAVING		
DRAINAGE SWALE		
DIRECTION OF FLOW		
ACCESSIBLE AREA		
MOTORCYCLE PARKING		
CONCRETE		
POWER POLE WITH ANCHOR		
OVERHEAD UTILITY WITH POWER POLE	OHU	
FENCE		
EASEMENT		
OVER HEAD DOOR		OHD
BASIN BOUNDARY		

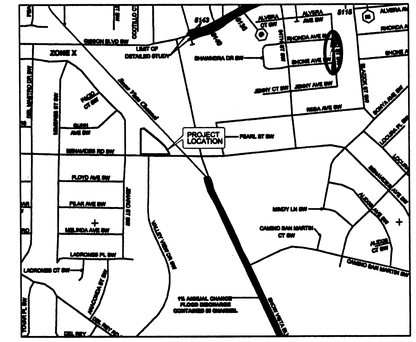
N

20 0 10 20

1 inch = 20 ft.



FEMA PANEL 336 OF 825



VICINITY MAP ZAP M-9-Z NTS

DRAINAGE PLAN NOTES

1. BLI recommends that the Owner obtain a Geotechnical Evaluation of the on-site soils prior to foundation/structural design.
2. This Plan recommends positive drainage away from all structures to prohibit ponding of runoff which may cause structural settlement. Future alteration of grades adjacent to the proposed structures is not recommended.
3. Irrigation within 10 feet of any proposed structure is not recommended. Introduction of irrigation water into subsurface soils adjacent to the structure could cause settlement.
4. This Plan is prepared to establish on-site drainage and grading criteria only. BLI assumes no responsibility for subsurface analysis, foundation/structural design, or utility design.
5. Local codes may require all footings to be placed in natural undisturbed soil. If the Contractor plans to place footings on engineered fill, a certification by a registered Professional Engineer will be required. If the contractor wishes BLI to prepare the Certification, we must be notified PRIOR to placement of the fill.
6. BLI recommends that the Owner obtain the services of a Geotechnical Engineer to test and inspect all earthwork aspects of the project.
7. The property boundary shown on this Plan is given for information only to describe the project limits. Property boundary information shown hereon does not constitute a boundary survey. A boundary survey performed by a licensed New Mexico Registered Professional Surveyor is recommended prior to construction.
8. All spot elevations are top of pavement unless noted otherwise.

PROJECT DATA

PROPERTY ADDRESS
9901 BENEVIDES SW

LEGAL DESCRIPTION
A PORTION OF TRACT 50-B-2, REPLAT OF TRACTS 50-A & 50-B, UNIT 5, ATRISCO VILLAGE, ALBUQUERQUE, NEW MEXICO MARCH, 2008

PROPERTY ZONING
M-1

MAPPING
ALL PROJECT SURVEYING BY THOMAS JOHNSTON, NMPLS 14269, JUNE 2007

PROJECT BENCHMARK
ACS STATION "8-F15"
ELEV = 4973.196'
NGVD 1988
87997.9 SQ. FT.
2.0 ACRES

NOTE TO CONTRACTOR:

THE SPILL PIPE WILL BE TERMINATED BY A FLAP GATE FASTENED TO THE INSIDE WALL OF THE DROP INLET VAULT. THIS WILL REQUIRE A BEND IN THE SPILL PIPE OR THE FLAP GATE WILL HAVE TO BE INSTALLED IN THE SPILL PIPE WITH AN ACCOMPANIING CONTAINMENT VESSEL. ANOTHER POSSIBLITY IS TO EXCAVATE AN APPENDAGE IN THE POND TO PLACE THE STANDPIPE IN A POSITION THAT CAUSES THE SPILLPIPE TO APPROACH THE BACK WALL OF THE DROP INLET PERPENDICULARLY.

GRADING & DRAINAGE PLAN

PURPOSE AND SCOPE:

PURSUANT TO THE ESTABLISHED DRAINAGE ORDINANCE OF THE CITY OF ALBUQUERQUE AND THE DEVELOPMENT PROCESS MANUAL, THIS GRADING AND DRAINAGE PLAN OUTLINES THE DRAINAGE MANAGEMENT CRITERIA FOR CONTROLLING DEVELOPED RUNOFF FROM THE PROJECT SITE. THE PROJECT CONSISTS OF THE DEVELOPMENT OF THE EXISTING PROPERTY BY CONSTRUCTING ADDITIONAL AFFORDABLE HOUSING AND PARKING LOT. PROPOSED SITE IMPROVEMENTS INCLUDE PAVING, UTILITY, LANDSCAPING, GRADING AND DRAINAGE IMPROVEMENTS. THIS GRADING PLAN AND A GRADING-TRAFFIC CIRCULATION CERTIFICATION IS PREPARED TO SUPPORT A BUILDING PERMIT APPLICATION.

EXISTING CONDITIONS:

THE PROJECT SITE CONTAINS APPROXIMATELY TWO ACRES AND IS LOCATED AT 9901 BENAVIDES SW. THE SITE IS PRESENTLY UNDEVELOPED. IT IS BOUNDED ON THE NORTH AND EAST BY THE SNOW VISTA CHANNEL, ON THE WEST BY WEST GATE HTS. AND ON THE SOUTH BY WEST SIDE BAPTIST CHURCH. CURRENTLY, RUNOFF DRAINS INTO THE STORM DRAIN. NO OFFSITE FLOW S IMPACT THE SITE.

AS SHOWN BY THE FIRM PANEL FOR THIS AREA, THIS PROPERTY IS NOT LOCATED WITHIN A DESIGNATED FLOOD HAZARD ZONE.

PROPOSED CONDITIONS:

AS SHOWN BY THE PLAN, THE PROPERTY IS TO BE DEVELOPED BY CONSTRUCTING ADEQUATE, AFFORDABLE HOUSING. WHICH WILL DRAIN INTO THE STORM DRAIN. GRADING WILL BE GENTLE TO MAKE RESIDENTIAL LOTS DESIRABLE ALL DRAINAGE FLOWS WILL BE MANAGED BY ON-SITE SWALES, CONVEYING RUNOFF TO A DETENTION POND FLOW ARROWS ARE AND ALSO SHEET THE FLOWS TO EITHER THE SMALL CHANNEL OR THE POND. THE FLOW WILL BE THROTTLED TO A MAXIMUM OF 2.2 CFS. THE POND WILL ALSO ACT AS A TRASH RETAINER BY STRAINING THE DETRITIS AT THE THROTTLING STRUCTURE AS THE FLOW ENTERS THE STORM DRAIN.

FLOW ARROWS ARE SHOWN TO DEMONSTRATE THE DIRECTION OF DRAINAGE FLOWS, AND PROJECT HYDROLOGY IS SHOWN FOR BOTH EXISTING AND DEVELOPED CONDITIONS.

TEMPORARY EROSION CONTROL :

TEMPORARY EROSION CONTROL MEASURES WILL BE IMPLEMENTED DURING CONSTRUCTION TO LIMIT THE DISCHARGE OF SEDIMENT FROM THE SITE TO ADJACENT PROPERTIES. IT IS THE CONSTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL TEMPORARY EROSION CONTROL MEASURES UNTIL COMPLETION OF ALL SITE PAVING, GRADING, DRAINAGE AND LANDSCAPING IMPROVEMENTS. SINCE THE SITE CONTAINS MORE THAN 1.0 ACRES, A SWPPP IS REQUIRED. THE SWPPP IS TO BE PREPARED BY OTHERS.

CALCULATIONS:

THE CALCULATIONS SHOWN HEREON DEFINE THE 100 YEAR, 24 HOUR DESIGN STORM IMPACTING THE SITE AND CONTRIBUTING OFF-SITE DRAINAGE BASINS UNDER EXISTING AND DEVELOPED CONDITIONS. THE AHYMO METHOD OF ESTIMATING PEAK RUNOFF IS PRESENTED AS OUTLINED IN THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, SECTION 22.2, PART 'A', UPDATED JULY 1997.

NOTICE TO CONTRACTORS

1. An excavation/construction permit will be required before beginning any work within the City right-of-way. An approved copy of these plans must be submitted at the time of application for this permit.
2. All work detailed on these plans to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with City of Albuquerque Standard Specifications for Public Works Construction
3. Two working days prior to any excavation, The Contractor must contact Line Locating Service, 765 1234, for location of existing utilities.
4. Prior to construction, the Contractor shall excavate and verify the horizontal and vertical location of all constructions. Should a conflict exist, the Contractor shall notify the Engineer so that conflict can be resolved with a minimum amount of delay.
5. Backfill compaction shall be according to commercial street use.
6. Maintenance of those facilities shall be the responsibility of the the Owner of the property served.

SO-19

APPROVAL	NAME	DATE
INSPECTOR		

JAN 15 2009
HYDROLOGY SECTION

REV. 1 10.6.08
REV. 2 1.9.09

HYDROLOGY

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) - VERSION: 1997.02a RUN DATE (MON/DAY/YR) =01/07/2009
INPUT FILE = C:\1ahymo\NLH65.TXT USER NO.= AHYMO-I-9702a0100007G-SH

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE = 1 NOTATION
START										TIME= .00
*S COMPUTE 100 YR. HYDROGRAPHS FOR THE NEW LIFE HOME 6 AND 5										
*S NLH65.TXT - HYMO PER JAN 1997 DPM REVISIONS										
RAINFALL TYPE= 2										RAIN24= 2.700
*S BASIN 1 EXISTING										
COMPUTE NM HYD	101.10	-	1	.00360	3.11	.086	.44913	1.500	1.351	PER IMP= .00
*S BASIN 1: DEVELOPED										
COMPUTE NM HYD	102.10	-	2	.00360	8.49	.344	1.78920	1.500	3.687	PER IMP= 55.00
ROUTE RESERVOIR	104.10	2	4	.00360	2.21	.344	1.78911	1.900	.957	AC-FT= .156
FINISH										

SPILLWAY:

FOR A SPILL PIPE, PLACE A 12" CMP FROM THE VERTICAL, PERFORATED STANDPIPE THROUGH THE BACK OF DROP INLET. PLACE AN ORIFICE PLATE W/ 7" CIRCULAR HOLE AT THE ENTRANCE OF THE SPILL PIPE. POSITION THE INLET OF SPILL PIPE AT 1' ABOVE INVERT OF DROP INLET.

DIA. OF HOLE IN THE ORIFICE PLATE:
D= (Q/(.6/4*PI()*(2g)^.5))
D= (2.2/(.15*3.1416)/(2*32)^.5)=.58

BRASHER & LORENZ
CONSULTING ENGINEERS
2201 San Pedro NE Building 1, Suite 1200
Albuquerque, New Mexico 87110
Ph: 505-888-6088 Fax: 505-888-6188

WALLACE L BINGHAM NEW MEXICO 7281 REGISTERED PROFESSIONAL ENGINEER 1.15.09

GRADING AND DRAINAGE PLAN

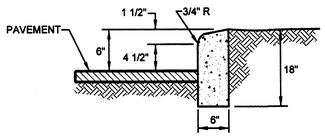
NEW LIFE HOME - SIX

DRAWN	WLB	CHECKED	DAL		
BLI JOB	08509	DATE	1-9-09	SHEET	C2
SCALE	1" = 20'				

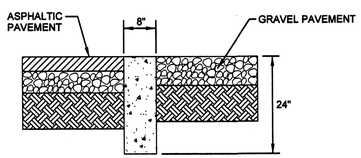
NOTES:

1. SIGN SHALL BE VERTICALLY MOUNTED ON A POST OR A WALL AT FRONT CENTER OF ACCESS AISLE, NO MORE THAN 5'-0" HORIZONTALLY FROM THE FRONT OF THE PARKING SPACE AND SET A MINIMUM OF 5'-0" ABOVE FINISH GRADE TO THE BOTTOM OF THE SIGN.
2. REFER TO SITE PLAN FOR LOCATION OF RESERVED PARKING SPACES.
3. COLORS - LEGEND AND BORDER - GREEN
   WHITE SYMBOL ON BLUE BACKGROUND
   BACKGROUND - WHITE

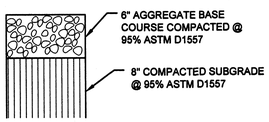
ACCESSIBLE PARKING SIGN (K / C-3)
NTS



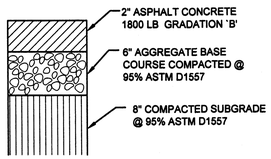
CONCRETE HEADER CURB (L / C-3)
NTS



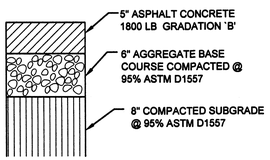
CUT-OFF WALL (M / C-3)
NTS



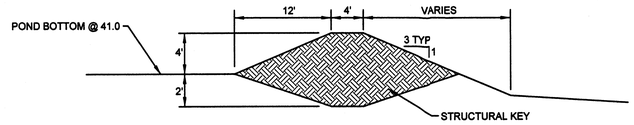
GRAVEL PAVEMENT SECTION (N / C-3)
NTS



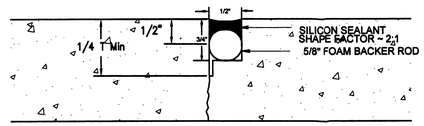
LIGHT DUTY PAVEMENT SECTION (O / C-3)
NTS



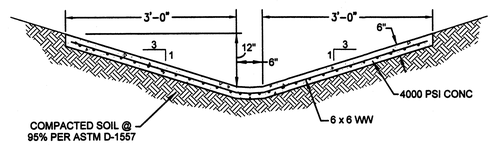
HEAVY DUTY PAVEMENT SECTION (P / C-3)
NTS AT REFUSE ENCLOSURE



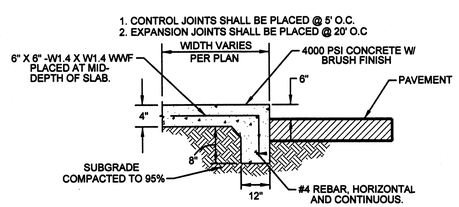
POND BERM SECTION (G / C-3)
NTS



CONTRACTION JOINT DETAIL (E / C-3)
NTS

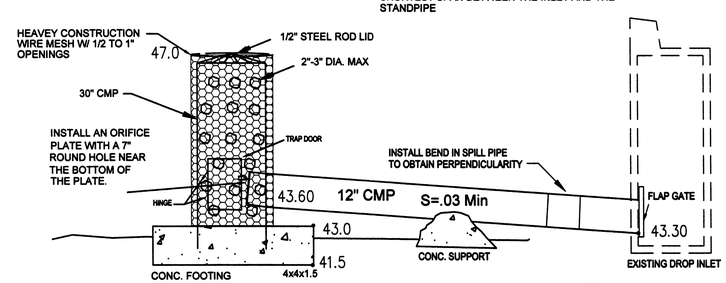


TRAPEZOIDAL CHANNEL SECTION (H / C-3)
NTS

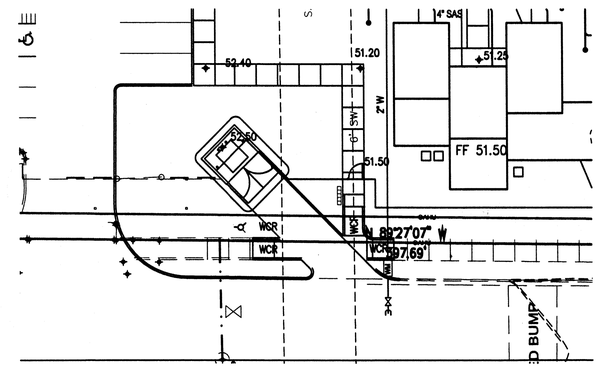


TURNDOWN SIDEWALK (J / C-3)
NTS

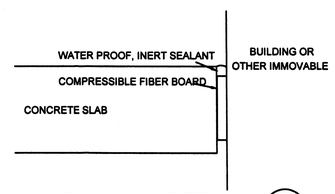
POSITION THE STANDPIPE TO FACILITATE THE SHORTEST SPAN BETWEEN THE INLET AND THE STANDPIPE



STANDPIPE SPILLWAY WITH TRASH FILTER (A / C-3)
NTS



REFUSE ENCLOSURE DRIVEPAD DETAIL (A / C-3)
SCALE: 1"= 20'-0"



EXPANSION JOINT DETAIL (E / C-3)
NTS

PURPOSE AND SCOPE

Pursuant to the established Drainage Ordinance for the City of Albuquerque and the Development Process Manual, this Drainage Report outlines the drainage management criteria for controlling developed runoff from the project site. The property is to be developed as the **New Life Homes**, with associated paving, landscaping, utility, grading, and drainage improvements. The scope of this plan is to provide drainage criteria for the safe management of excess runoff, and design detail for the construction of the required grading, paving and drainage improvements.

EXISTING CONDITIONS

The project site is approximately 2.02 acres in size and is located on Benavides Drive NW, (See Location Map Sheet C-1). Presently the site is undeveloped. Site topography slopes from southwest to northeast at approximately 1.5 percent. The site is covered with native grasses and vegetation. The site is classified as an infill project. The site is bounded by Benavides Drive on the south, developed residential (single family) on the west, and the Snow Vista Channel along the northeast. No off-site flows impact the site. The undeveloped land to the west drains north to the Snow Vista Channel, an improved AMAFCA channel. Benavides Road drains east to the channel. All runoff from the site drains eastward to the channel. A side inlet is provided to drain undeveloped flows to the channel.

As shown by attached Floodway Panel, this site does not lie within a designated flood hazard zone.

EXISTING DRAINAGE MASTERPLANS

The drainage criteria for this site was established by the "Master Drainage Plan for Sunrise Terrace, Unit 1 Plan", prepared by Easterling & Associates, Inc. Per the DMP downstream limitations within the Snow Vista Channel and detention reservoir limit the discharge from the project site is limited to 1.29 cfs per acre.

PROPOSED CONDITIONS

As shown by the Plan, the project consists of the development of the property into an Apartment Complex. The Plan shows the elevations required to properly grade and construct the recommended improvements. The direction of drainage flows are given by flow arrows and on-site drainage basins are identified.

In accordance with the approved Drainage Master plan all runoff generated by the project site will be routed through a ponding area to be located along the south side of the channel. Since this Project consists of the development of the east one-half of the site, developed runoff from the site , will be routed overland to a retention pond. The pond will be constructed at the location of an existing side inlet notch at the Snow Vista Channel. The side inlet will be improved by constructing a side inlet extension across the south maintenance road.

JAN 15 2009
HYDROLOGY

CALCULATIONS

The calculations shown herein define the 100 year/6 hour design storm falling with the project area under existing and developed conditions. The Hydrology is per "Section 22.2, Part A, DPM, Vol 2" dated July 1997. AHYMO was used to quantafy the runoff and route it through the pond.

REVISIONS

BRASHER & LORENZ
CONSULTING ENGINEERS
2201 San Pedro Blvd. NE Bldg. 1, Suite 1300
Albuquerque, New Mexico 87110
Phone: (505) 884-0005 Fax: (505) 884-5185

WALLACE L. BUNCHAM
NEW MEXICO
7281
REGISTERED PROFESSIONAL ENGINEER

514 CENTRAL SW
ALBUQUERQUE
NEW MEXICO
87102
505/766-6968
FAX/243-4508

GARRETT SMITH LTD
DESIGN, ARCHITECT

NEW LIFE HOMES - 6
ALBUQUERQUE NEW MEXICO

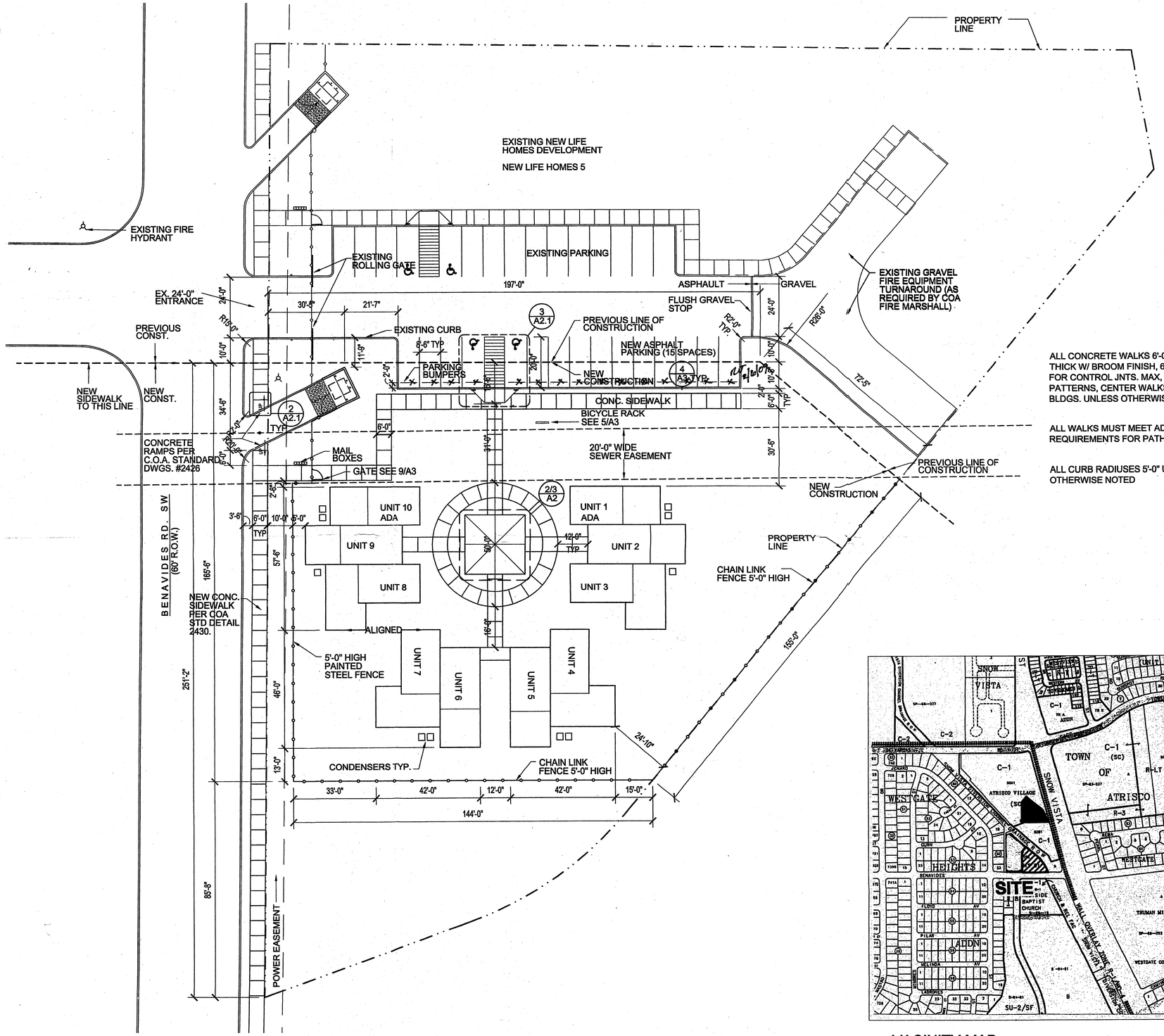
CONSTRUCTION DETAILS

SCALE: NTS

DATE: 07-03-08

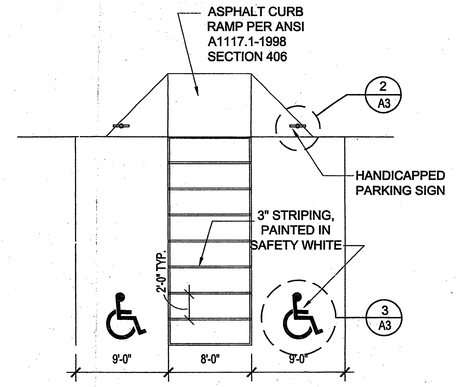
SHT: C3

ORIGINAL DRAWING IS 24 X 36



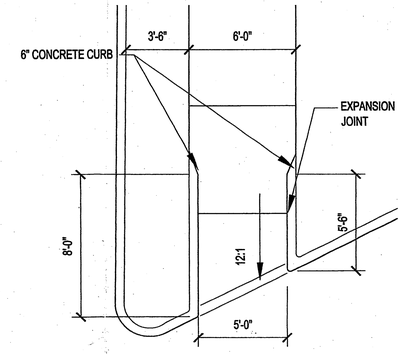
1 A2.1 TCL SITE PLAN

SCALE: 1"= 20'-0"



3 A2.1 HANDICAPPED PARKING AISLE DETAIL

SCALE: 1/4"= 1'-0"



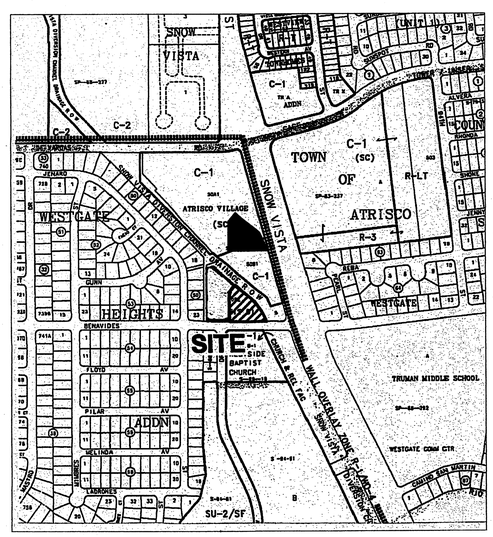
2 A2.1 RAMP DETAIL

SCALE: 1/4"= 1'-0"

ALL CONCRETE WALKS 6'-0" WIDE, 4" THICK W/ BROOM FINISH, 6'-0" SPACING FOR CONTROL JNTS. MAX, CENTER PATTERNS, CENTER WALKS BETWEEN BLDGS. UNLESS OTHERWISE NOTED

ALL WALKS MUST MEET ADA REQUIREMENTS FOR PATH OF EGRESS

ALL CURB RADIUSES 5'-0" UNLESS OTHERWISE NOTED



VACINITY MAP

ZONE MAP NO. M-9 Z

PROJECT DATA

Project Address:
9901 Benavides Road SW
Albuquerque, NM
Legal Description:
Easterly Portion of Tract 50-B-2
Unit 5 - Atrisco Village
Project Owner:
New Life Homes, Inc.
P.O. Box 90486
Albuquerque, NM 87199
Type of Development
Apartments
Development Size:
2.0175 Acres
Parking Spaces Required:
1.5 per DU
10 DUs = 15 Required
COA Buss Stop is Located Within 300'
15 Spaces Provided - Including 2 Accessible

ALL WHEELCHAIR RAMPS LOCATED WITHIN THE PUBLIC RIGHT OF WAY MUST HAVE TRUNCATED DOMES.

Public Infrastructure shown on these plans for information only and not part of approval. Separate DRC/Permit approval and Work Order required.

TRAFFIC CIRCULATION LAYOUT APPROVED
Signed 2/6/09 Date

Executive Summary:
Project Address:
9901 Benavides Road SW
Albuquerque, NM
Development Concept:
10 (10) New Single Bedroom Apartment Units
Parking Stalls off Main Drive
Site Fire Equipment Access and Turnaround
Traffic Circulation Concept:
Site Acces off Benavides Road SW
Impact on Adjacent Sites:
Minimal
Variance Required:
No Variance Required; Parking Meets Requirements

514 CENTRAL SW
ALBUQUERQUE
NEW MEXICO
87102
505/766-6968
FAX/243-4508

GARRETT SMITH LTD
DESIGN, ARCHITECTURE & DEVELOPMENT

STAMP
STATE OF NEW MEXICO GARRETT SMITH NO. 2318 REGISTERED ARCHITECT

CONSULTANT

New Life Homes 6
SITE PLAN FOR TCL

MARK	DESCRIPTION	DATE

ISSUE: CD
PROJECT NUMBER: 00-06
FILE: A2.1.DWG
DRWN. BY: MPE
CHKD BY: GS
DATE: February 3, 2009

A2.1

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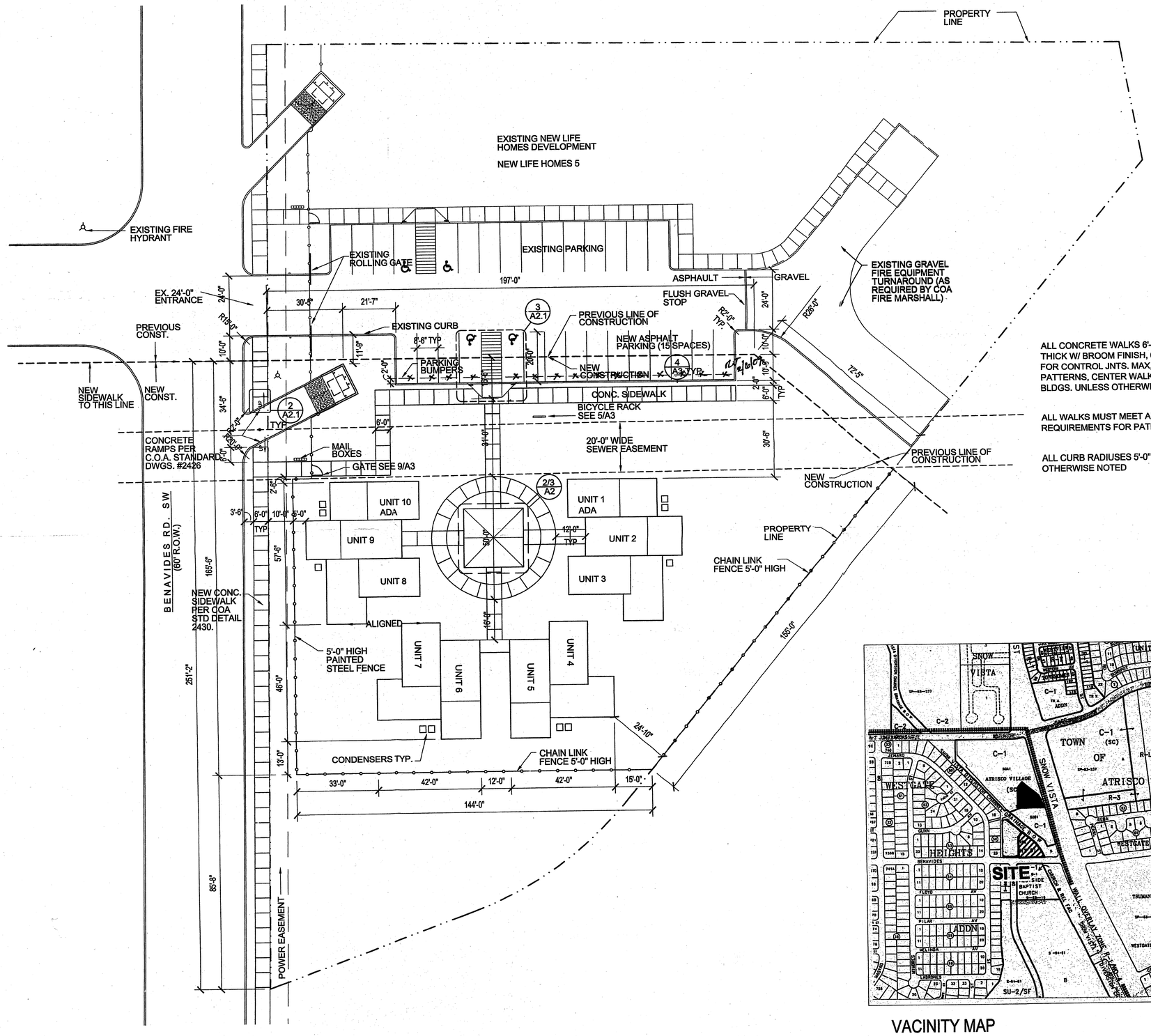
FEB 09 2009 HYDROLOGY SECTION

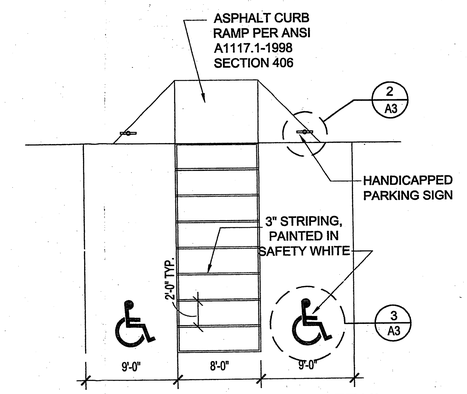
FEB 04 2009 HYDROLOGY SECTION

ORIGINAL DRAWING IS 24 X 36



1 A2.1 TCL SITE PLAN

SCALE: 1"= 20'-0"



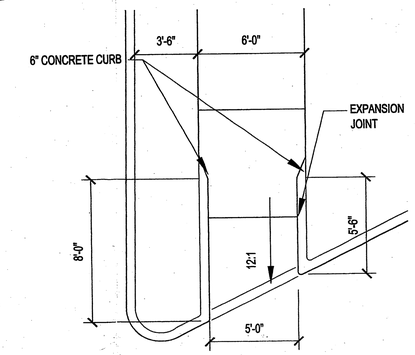
3 A2.1 HANDICAPPED PARKING AISLE DETAIL

SCALE: 1/4"= 1'-0"

ALL CONCRETE WALKS 6'-0" WIDE, 4" THICK W/ BROOM FINISH, 6'-0" SPACING FOR CONTROL JNTS. MAX, CENTER PATTERNS, CENTER WALKS BETWEEN BLDGS. UNLESS OTHERWISE NOTED

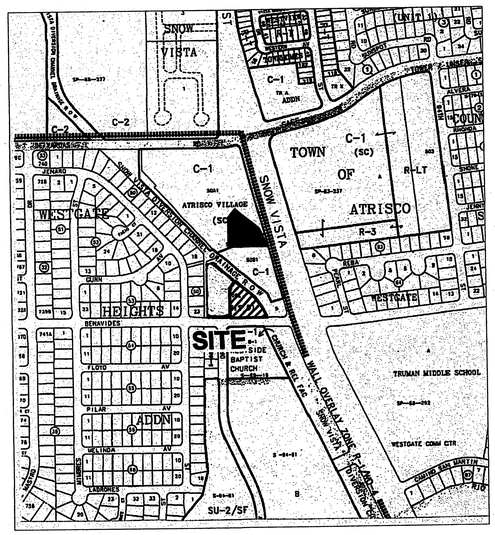
ALL WALKS MUST MEET ADA REQUIREMENTS FOR PATH OF EGRESS

ALL CURB RADIUSES 5'-0" UNLESS OTHERWISE NOTED



2 A2.1 RAMP DETAIL

SCALE: 1/4"= 1'-0"



VACINITY MAP

ZONE MAP NO. M-9 Z

PROJECT DATA

Project Address:
9901 Benavides Road SW
Albuquerque, NM
Legal Description:
Easterly Portion of Tract 50-B-2
Unit 5 - Atrisco Village
Project Owner:
New Life Homes, Inc.
P.O. Box 90486
Albuquerque, NM 87199
Type of Development
Apartments
Development Size:
2.0175 Acres
Parking Spaces Required:
1.5 per DU
10 DUs = 15 Required
COA Buss Stop is Located Within 300'
15 Spaces Provided - Including 2 Accessible

ALL WHEELCHAIR RAMPS LOCATED WITHIN THE PUBLIC RIGHT OF WAY MUST HAVE TRUNCATED DOMES.

Public Infrastructure shown on these plans for information only and not part of approval. Separate DRC/Permit approval and Work Order required.

TRAFFIC CIRCULATION LAYOUT APPROVED
Signed 2/6/09 Date

Executive Summary:
Project Address:
9901 Benavides Road SW
Albuquerque, NM
Development Concept:
10 (10) New Single Bedroom Apartment Units
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STATE OF NEW MEXICO GARRETT SMITH No. 2318 REGISTERED ARCHITECT

CONSULTANT

New Life Homes 6
SITE PLAN FOR TCL

MARK	DATE	DESCRIPTION

ISSUE: CD
PROJECT NUMBER: 00-06
FILE: A2.1.DWG
DRWN. BY: MPE
CHKD BY: GS
DATE: February 3, 2009

A2.1

FEB 09 2009 HYDROLOGY SECTION

RECEIVED FEB 04 2009 HYDROLOGY SECTION

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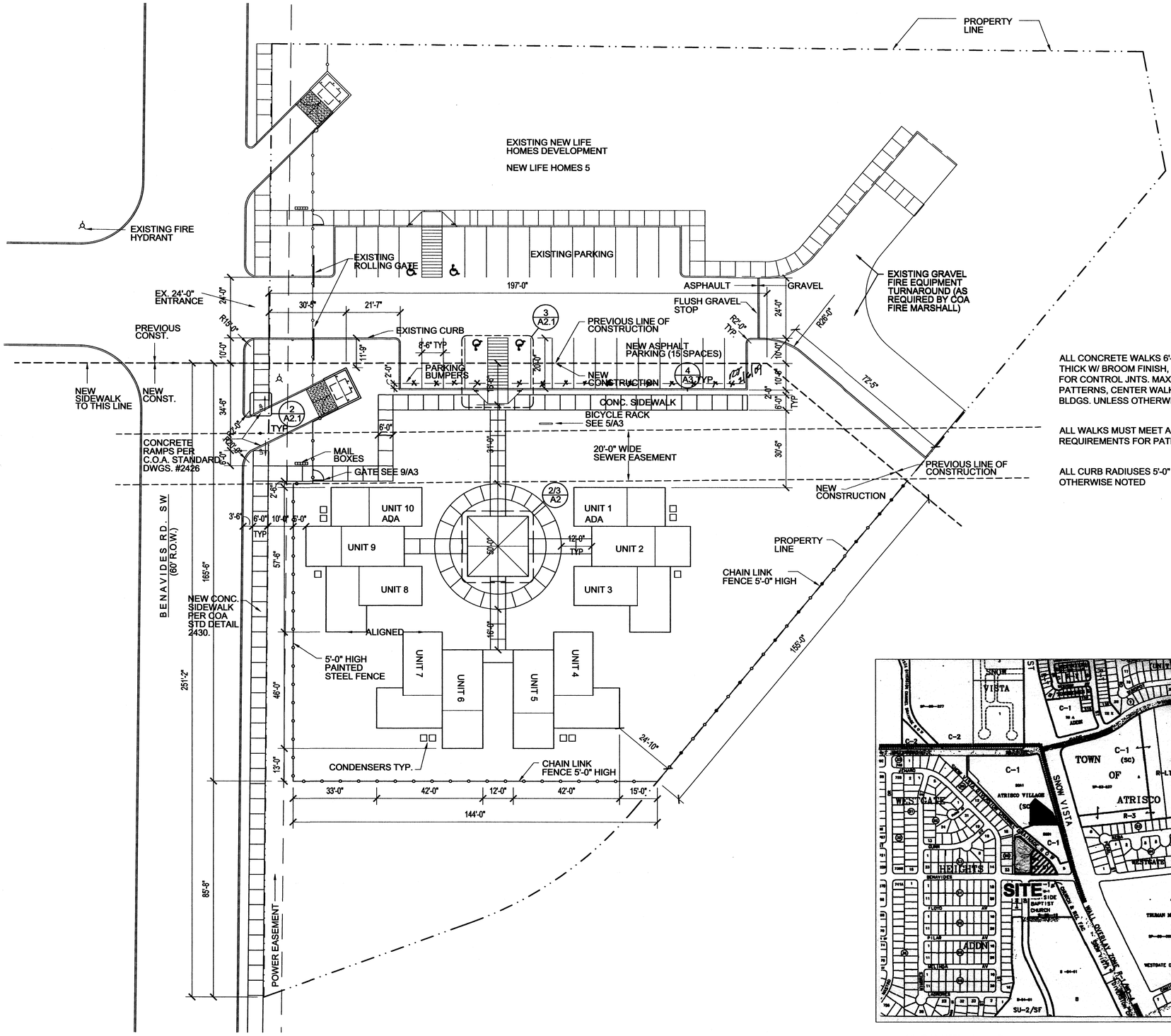
ORIGINAL DRAWING IS 24 X 36



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SCALE: 1"= 20'-0"

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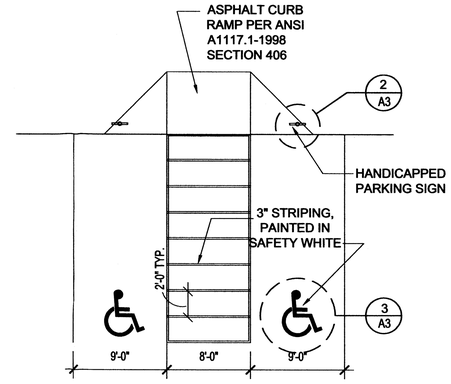
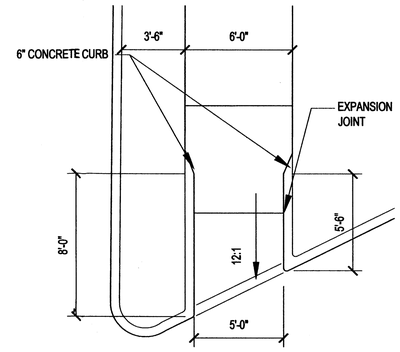


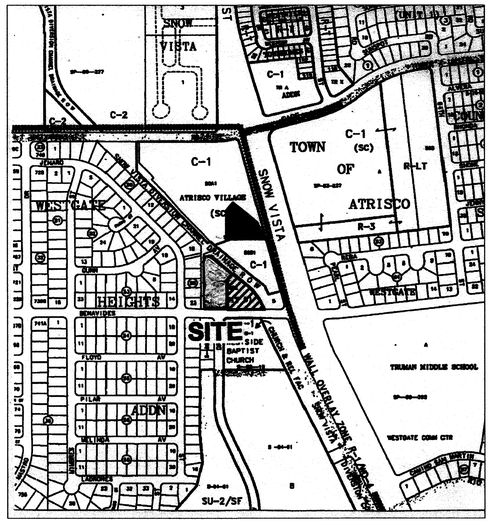
3 A2.1 HANDICAPPED PARKING AISLE DETAIL

SCALE: 1/4"= 1'-0"



2 A2.1 RAMP DETAIL

SCALE: 1/4"= 1'-0"



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CONSULTANT

New Life Homes 6
SITE PLAN FOR TCL

MARK	DATE	DESCRIPTION

ISSUE:	CD
PROJECT NUMBER:	00-06
FILE:	A2.1.DWG
DRWN. BY:	MPE
CHKD BY:	GS
DATE:	February 3, 2009

A2.1

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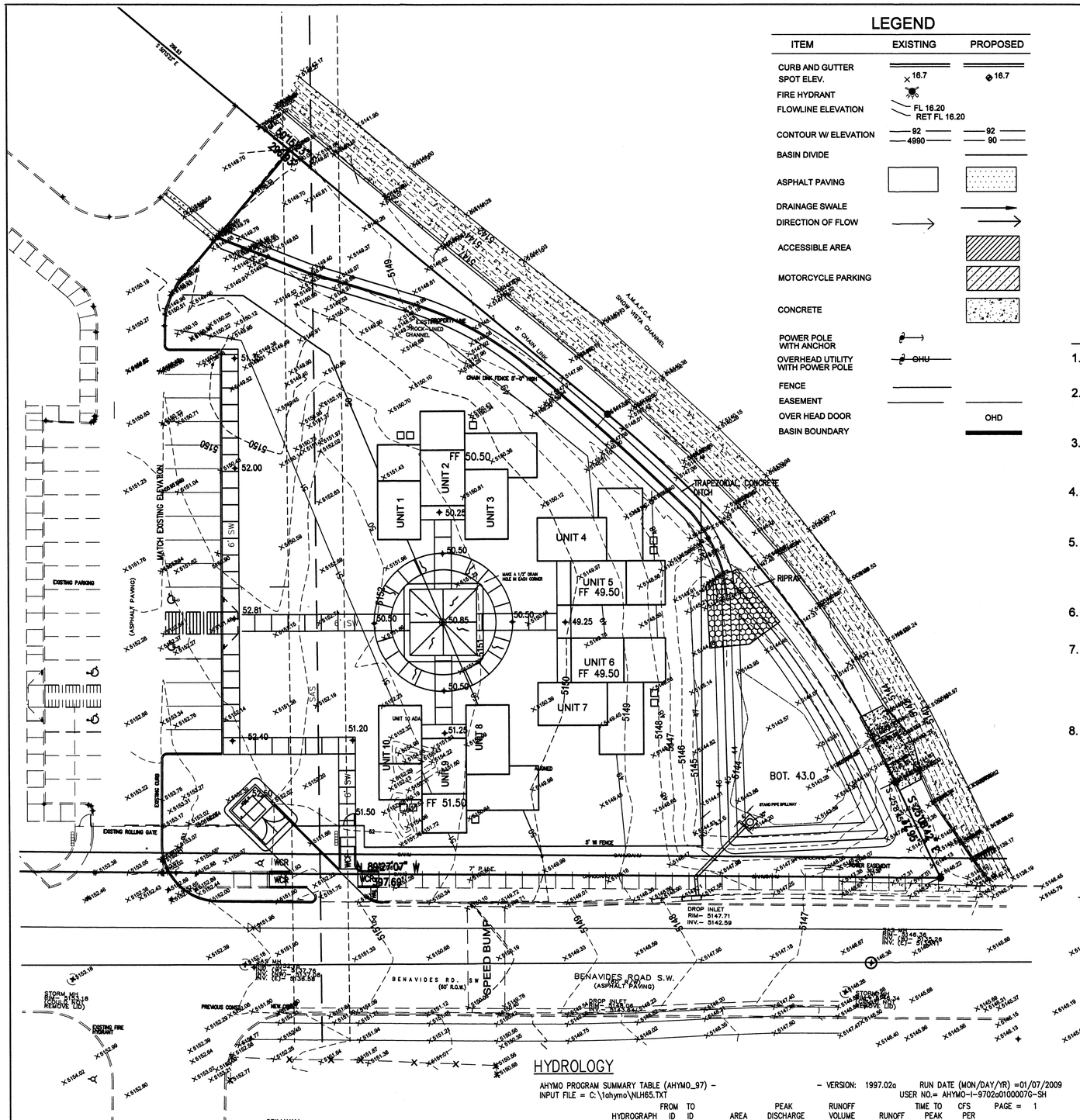
RECEIVED FEB 04 2009 HYDROLOGY SECTION



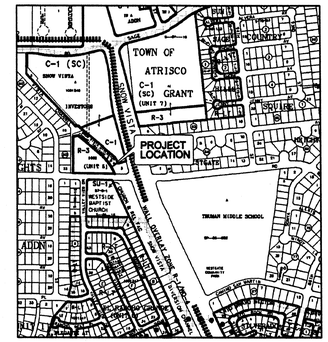
LEGEND

ITEM	EXISTING	PROPOSED
CURB AND GUTTER		
SPOT ELEV.	× 16.7	◆ 16.7
FIRE HYDRANT		
FLOWLINE ELEVATION	FL 16.20 RET FL 16.20	
CONTOUR W/ ELEVATION	92 4990	92 90
BASIN DIVIDE		
ASPHALT PAVING		
DRAINAGE SWALE		
DIRECTION OF FLOW		
ACCESSIBLE AREA		
MOTORCYCLE PARKING		
CONCRETE		
POWER POLE WITH ANCHOR		
OVERHEAD UTILITY WITH POWER POLE	OHU	
FENCE		
EASEMENT		
OVER HEAD DOOR		OHD
BASIN BOUNDARY		

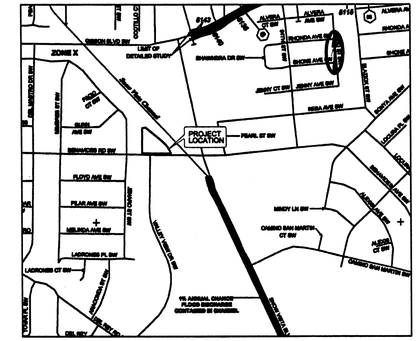
N

20 0 10 20

1 inch = 20 ft.



FEMA PANEL 336 OF 825



VICINITY MAP ZAP M-9-Z NTS

DRAINAGE PLAN NOTES

1. BLI recommends that the Owner obtain a Geotechnical Evaluation of the on-site soils prior to foundation/structural design.
2. This Plan recommends positive drainage away from all structures to prohibit ponding of runoff which may cause structural settlement. Future alteration of grades adjacent to the proposed structures is not recommended.
3. Irrigation within 10 feet of any proposed structure is not recommended. Introduction of irrigation water into subsurface soils adjacent to the structure could cause settlement.
4. This Plan is prepared to establish on-site drainage and grading criteria only. BLI assumes no responsibility for subsurface analysis, foundation/structural design, or utility design.
5. Local codes may require all footings to be placed in natural undisturbed soil. If the Contractor plans to place footings on engineered fill, a certification by a registered Professional Engineer will be required. If the contractor wishes BLI to prepare the Certification, we must be notified PRIOR to placement of the fill.
6. BLI recommends that the Owner obtain the services of a Geotechnical Engineer to test and inspect all earthwork aspects of the project.
7. The property boundary shown on this Plan is given for information only to describe the project limits. Property boundary information shown hereon does not constitute a boundary survey. A boundary survey performed by a licensed New Mexico Registered Professional Surveyor is recommended prior to construction.
8. All spot elevations are top of pavement unless noted otherwise.

PROJECT DATA

PROPERTY ADDRESS
9901 BENEVIDES SW

LEGAL DESCRIPTION
A PORTION OF TRACT 50-B-2, REPLAT OF TRACTS 50-A & 50-B, UNIT 5, ATRISCO VILLAGE, ALBUQUERQUE, NEW MEXICO MARCH, 2008

PROPERTY ZONING
M-1

MAPPING
ALL PROJECT SURVEYING BY THOMAS JOHNSTON, NMPLS 14269, JUNE 2007

PROJECT BENCHMARK
ACS STATION "8-F15"
ELEV = 4973.196'
NGVD 1988
87997.9 SQ. FT.
2.0 ACRES

NOTE TO CONTRACTOR:

THE SPILL PIPE WILL BE TERMINATED BY A FLAP GATE FASTENED TO THE INSIDE WALL OF THE DROP INLET VAULT. THIS WILL REQUIRE A BEND IN THE SPILL PIPE OR THE FLAP GATE WILL HAVE TO BE INSTALLED IN THE SPILL PIPE WITH AN ACCOMPANIING CONTAINMENT VESSEL. ANOTHER POSSIBLITY IS TO EXCAVATE AN APPENDAGE IN THE POND TO PLACE THE STANDPIPE IN A POSITION THAT CAUSES THE SPILLPIPE TO APPROACH THE BACK WALL OF THE DROP INLET PERPENDICULARLY.

GRADING & DRAINAGE PLAN

PURPOSE AND SCOPE:

PURSUANT TO THE ESTABLISHED DRAINAGE ORDINANCE OF THE CITY OF ALBUQUERQUE AND THE DEVELOPMENT PROCESS MANUAL, THIS GRADING AND DRAINAGE PLAN OUTLINES THE DRAINAGE MANAGEMENT CRITERIA FOR CONTROLLING DEVELOPED RUNOFF FROM THE PROJECT SITE. THE PROJECT CONSISTS OF THE DEVELOPMENT OF THE EXISTING PROPERTY BY CONSTRUCTING ADDITIONAL AFFORDABLE HOUSING AND PARKING LOT. PROPOSED SITE IMPROVEMENTS INCLUDE PAVING, UTILITY, LANDSCAPING, GRADING AND DRAINAGE IMPROVEMENTS. THIS GRADING PLAN AND A GRADING-TRAFFIC CIRCULATION CERTIFICATION IS PREPARED TO SUPPORT A BUILDING PERMIT APPLICATION.

EXISTING CONDITIONS:

THE PROJECT SITE CONTAINS APPROXIMATELY TWO ACRES AND IS LOCATED AT 9901 BENAVIDES SW. THE SITE IS PRESENTLY UNDEVELOPED. IT IS BOUNDED ON THE NORTH AND EAST BY THE SNOW VISTA CHANNEL, ON THE WEST BY WEST GATE HTS. AND ON THE SOUTH BY WEST SIDE BAPTIST CHURCH. CURRENTLY, RUNOFF DRAINS INTO THE STORM DRAIN. NO OFFSITE FLOW S IMPACT THE SITE.

AS SHOWN BY THE FIRM PANEL FOR THIS AREA, THIS PROPERTY IS NOT LOCATED WITHIN A DESIGNATED FLOOD HAZARD ZONE.

PROPOSED CONDITIONS:

AS SHOWN BY THE PLAN, THE PROPERTY IS TO BE DEVELOPED BY CONSTRUCTING ADEQUATE, AFFORDABLE HOUSING. WHICH WILL DRAIN INTO THE STORM DRAIN. GRADING WILL BE GENTLE TO MAKE RESIDENTIAL LOTS DESIRABLE ALL DRAINAGE FLOWS WILL BE MANAGED BY ON-SITE SWALES, CONVEYING RUNOFF TO A DETENTION POND FLOW ARROWS ARE AND ALSO SHEET THE FLOWS TO EITHER THE SMALL CHANNEL OR THE POND. THE FLOW WILL BE THROTTLED TO A MAXIMUM OF 2.2 CFS. THE POND WILL ALSO ACT AS A TRASH RETAINER BY STRAINING THE DETRITIS AT THE THROTTLING STRUCTURE AS THE FLOW ENTERS THE STORM DRAIN.

FLOW ARROWS ARE SHOWN TO DEMONSTRATE THE DIRECTION OF DRAINAGE FLOWS, AND PROJECT HYDROLOGY IS SHOWN FOR BOTH EXISTING AND DEVELOPED CONDITIONS.

TEMPORARY EROSION CONTROL :

TEMPORARY EROSION CONTROL MEASURES WILL BE IMPLEMENTED DURING CONSTRUCTION TO LIMIT THE DISCHARGE OF SEDIMENT FROM THE SITE TO ADJACENT PROPERTIES. IT IS THE CONSTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL TEMPORARY EROSION CONTROL MEASURES UNTIL COMPLETION OF ALL SITE PAVING, GRADING, DRAINAGE AND LANDSCAPING IMPROVEMENTS. SINCE THE SITE CONTAINS MORE THAN 1.0 ACRES, A SWPPP IS REQUIRED. THE SWPPP IS TO BE PREPARED BY OTHERS.

CALCULATIONS:

THE CALCULATIONS SHOWN HEREON DEFINE THE 100 YEAR, 24 HOUR DESIGN STORM IMPACTING THE SITE AND CONTRIBUTING OFF-SITE DRAINAGE BASINS UNDER EXISTING AND DEVELOPED CONDITIONS. THE AHYMO METHOD OF ESTIMATING PEAK RUNOFF IS PRESENTED AS OUTLINED IN THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, SECTION 22.2, PART 'A', UPDATED JULY 1997.

NOTICE TO CONTRACTORS

1. An excavation/construction permit will be required before beginning any work within the City right-of-way. An approved copy of these plans must be submitted at the time of application for this permit.
2. All work detailed on these plans to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with City of Albuquerque Standard Specifications for Public Works Construction
3. Two working days prior to any excavation, The Contractor must contact Line Locating Service, 765 1234, for location of existing utilities.
4. Prior to construction, the Contractor shall excavate and verify the horizontal and vertical location of all constructions. Should a conflict exist, the Contractor shall notify the Engineer so that conflict can be resolved with a minimum amount of delay.
5. Backfill compaction shall be according to commercial street use.
6. Maintenance of those facilities shall be the responsibility of the the Owner of the property served.

50-19

APPROVAL	NAME	DATE
INSPECTOR		

RECEIVED JAN 15 2009 HYDROLOGY SECTION

REV. 1 10.6.08
REV. 2 1.9.09

HYDROLOGY

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) - - VERSION: 1997.02a RUN DATE (MON/DAY/YR) =01/07/2009
INPUT FILE = C:\1ahymo\NLH65.TXT USER NO.= AHYMO-I-9702a0100007G-SH

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE = 1 NOTATION
START										TIME= .00
*S COMPUTE 100 YR. HYDROGRAPHS FOR THE NEW LIFE HOME 6 AND 5										
*S NLH65.TXT - HYMO PER JAN 1997 DPM REVISIONS										
RAINFALL TYPE= 2										RAIN24= 2.700
*S BASIN 1 EXISTING										
COMPUTE NM HYD	101.10	-	1	.00360	3.11	.086	.44913	1.500	1.351	PER IMP= .00
*S BASIN 1: DEVELOPED										
COMPUTE NM HYD	102.10	-	2	.00360	8.49	.344	1.78920	1.500	3.687	PER IMP= 55.00
ROUTE RESERVOIR	104.10	2	4	.00360	2.21	.344	1.78911	1.900	.957	AC-FT= .156
FINISH										

SPILLWAY:

FOR A SPILL PIPE, PLACE A 12" CMP FROM THE VERTICAL, PERFORATED STANDPIPE THROUGH THE BACK OF DROP INLET. PLACE AN ORIFICE PLATE W/ 7" CIRCULAR HOLE AT THE ENTRANCE OF THE SPILL PIPE. POSITION THE INLET OF SPILL PIPE AT 1' ABOVE INVERT OF DROP INLET.

DIA. OF HOLE IN THE ORIFICE PLATE:
D= (Q/(.6/4*Pi)*(2g)^.5))
D= (2.2/(.15*3.1416)/(2*32)^.5)=.58

BRASHER & LORENZ
CONSULTING ENGINEERS
2201 San Pedro NE Building 1 Suite 1200
Albuquerque, New Mexico 87110
Ph: 505-888-6088 Fax: 505-888-6188

WALLACE L. BINGHAM NEW MEXICO 7281 REGISTERED PROFESSIONAL ENGINEER 1.15.09

GRADING AND DRAINAGE PLAN

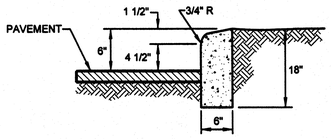
NEW LIFE HOME - SIX

DRAWN	WLB	CHECKED	DAL	SHEET C2
BLI JOB	08509	DATE	1-9-09	
SCALE	1" = 20'			

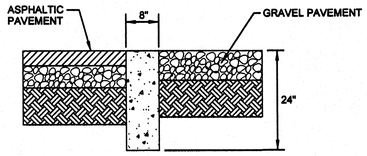
NOTES:

1. SIGN SHALL BE VERTICALLY MOUNTED ON A POST OR A WALL AT FRONT CENTER OF ACCESS AISLE, NO MORE THAN 5'-0" HORIZONTALLY FROM THE FRONT OF THE PARKING SPACE AND SET A MINIMUM OF 5'-0" ABOVE FINISH GRADE TO THE BOTTOM OF THE SIGN.
2. REFER TO SITE PLAN FOR LOCATION OF RESERVED PARKING SPACES.
3. COLORS - LEGEND AND BORDER - GREEN
   WHITE SYMBOL ON BLUE BACKGROUND
   BACKGROUND - WHITE

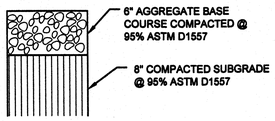
ACCESSIBLE PARKING SIGN (K / C-3)
NTS



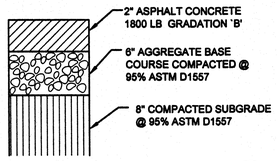
CONCRETE HEADER CURB (L / C-3)
NTS



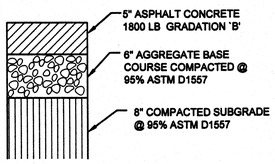
CUT-OFF WALL (M / C-3)
NTS



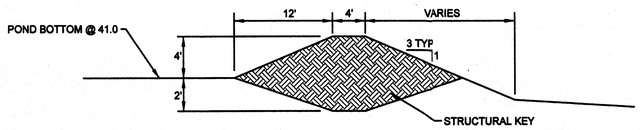
GRAVEL PAVEMENT SECTION (N / C-3)
NTS



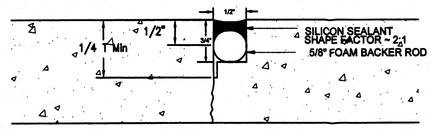
LIGHT DUTY PAVEMENT SECTION (O / C-3)
NTS



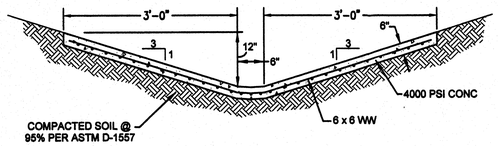
HEAVY DUTY PAVEMENT SECTION (P / C-3)
NTS AT REFUSE ENCLOSURE



POND BERM SECTION (G / C-3)
NTS



CONTRACTION JOINT DETAIL (E / C-3)
NTS



TRAPEZOIDAL CHANNEL SECTION (H / C-3)
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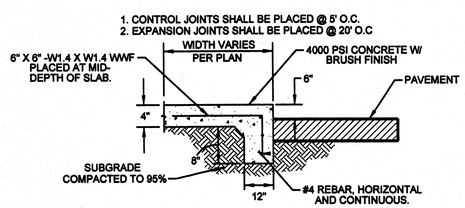
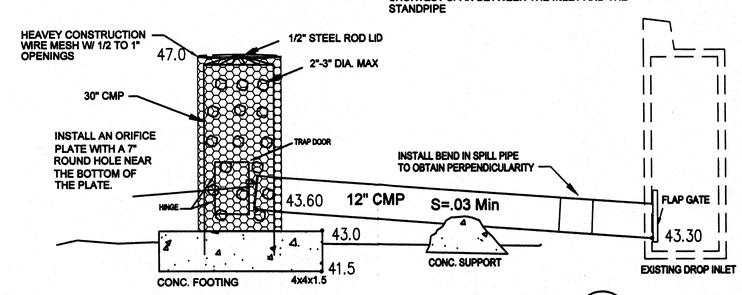
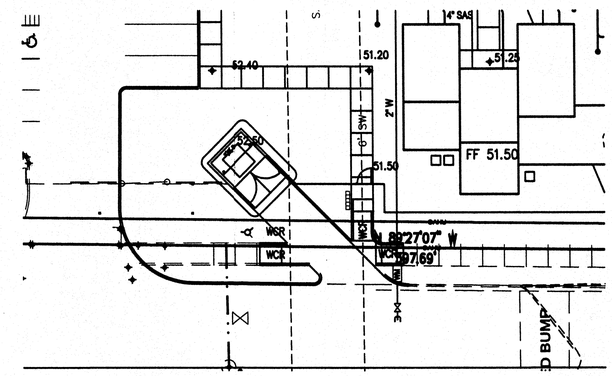


TURNDOWN SIDEWALK (J / C-3)
NTS

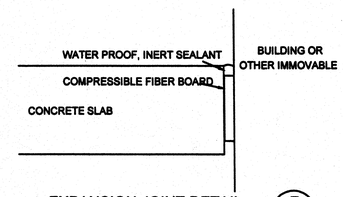
POSITION THE STANDPIPE TO FACILITATE THE SHORTEST SPAN BETWEEN THE INLET AND THE STANDPIPE



STANDPIPE SPILLWAY WITH TRASH FILTER (A / C-3)
NTS



REFUSE ENCLOSURE DRIVEPAD DETAIL (A / C-3)
SCALE: 1"= 20'-0"



EXPANSION JOINT DETAIL (E / C-3)
NTS

PURPOSE AND SCOPE

Pursuant to the established Drainage Ordinance for the City of Albuquerque and the Development Process Manual, this Drainage Report outlines the drainage management criteria for controlling developed runoff from the project site. The property is to be developed as the **New Life Homes**, with associated paving, landscaping, utility, grading, and drainage improvements. The scope of this plan is to provide drainage criteria for the safe management of excess runoff, and design detail for the construction of the required grading, paving and drainage improvements.

EXISTING CONDITIONS

The project site is approximately 2.02 acres in size and is located on Benavides Drive NW, (See Location Map Sheet C-1). Presently the site is undeveloped. Site topography slopes from southwest to northeast at approximately 1.5 percent. The site is covered with native grasses and vegetation. The site is classified as an infill project. The site is bounded by Benavides Drive on the south, developed residential (single family) on the west, and the Snow Vista Channel along the northeast. No off-site flows impact the site. The undeveloped land to the west drains north to the Snow Vista Channel, an improved AMAFCA channel. Benavides Road drains east to the channel. All runoff from the site drains eastward to the channel. A side inlet is provided to drain undeveloped flows to the channel.

As shown by attached Floodway Panel, this site does not lie within a designated flood hazard zone.

EXISTING DRAINAGE MASTERPLANS

The drainage criteria for this site was established by the "Master Drainage Plan for Sunrise Terrace, Unit 1 Plan", prepared by Easterling & Associates, Inc. Per the DMP downstream limitations within the Snow Vista Channel and detention reservoir limit the discharge from the project site is limited to 1.29 cfs per acre.

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As shown by the Plan, the project consists of the development of the property into an Apartment Complex. The Plan shows the elevations required to properly grade and construct the recommended improvements. The direction of drainage flows are given by flow arrows and on-site drainage basins are identified.

In accordance with the approved Drainage Master plan all runoff generated by the project site will be routed through a ponding area to be located along the south side of the channel. Since this Project consists of the development of the east one-half of the site, developed runoff from the site , will be routed overland to a retention pond. The pond will be constructed at the location of an existing side inlet notch at the Snow Vista Channel. The side inlet will be improved by constructing a side inlet extension across the south maintenance road.

CALCULATIONS

The calculations shown herein define the 100 year/6 hour design storm falling with the project area under existing and developed conditions. The Hydrology is per "Section 22.2, Part A, DPM, Vol 2" dated July 1997. AHYMO was used to quantafy the runoff and route it through the pond.

RECEIVED
JAN 15 2009
HYDROLOGY SECTION

REVISIONS

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WALLACE L. BINGHAM NEW MEXICO (7281) REGISTERED PROFESSIONAL ENGINEER

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ALBUQUERQUE
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FAX/243-4508

GARRETT SMITH, LTD
DESIGN, ARCHITECTURE & DEVELOPMENT

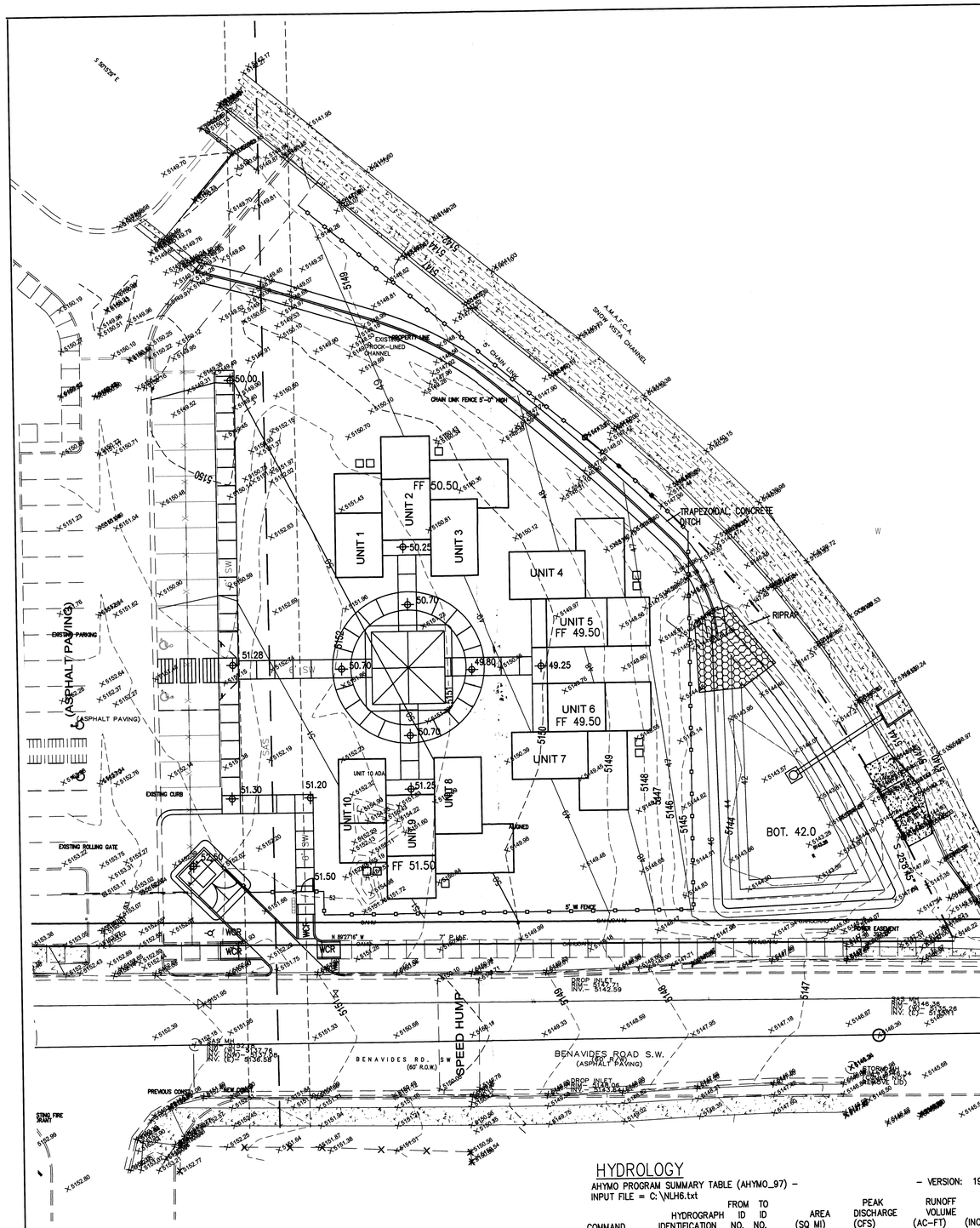
NEW LIFE HOMES - 6
ALBUQUERQUE NEW MEXICO

CONSTRUCTION DETAILS

SCALE: NTS

DATE: 07-03-08

SHT: C3



5" ORIFICE PLATE @2':

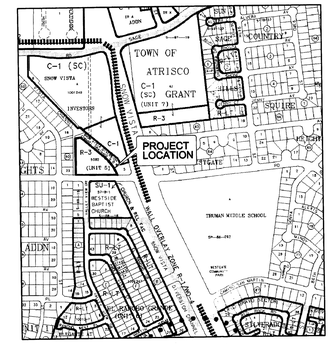
.6*.42^2/4*3.142*(2*32)^.5=2.66CFS

HYDROLOGY

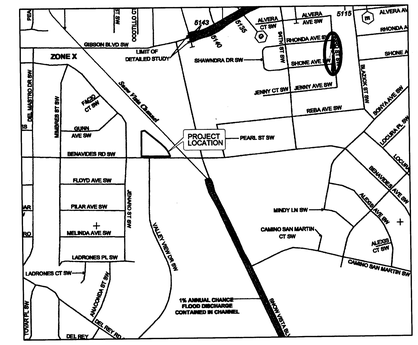
AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) – – VERSION: 1997.02a RUN DATE (MON/DAY/YR) =04/10/2008
INPUT FILE = C:\NLH6.txt USER NO.= AHYMO-I-9702a0100007G-SH
TIME TO CFS PAGE = 1

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	PEAK (HOURS)	PER ACRE	NOTATION
START										TIME= .00
*S COMPUTE 100 YR. HYDROGRAPHS FOR NEW LIFE HOMES 6 BENEVIDES ROAD										
										RAIN24= 2.660
RAINFALL TYPE= 2										
*S BASIN 1 NEW AREA										
COMPUTE NM HYD	101.10	–	1	.00165	3.66	.150	1.69944	1.500	3.470 PER IMP=	57.00
*S BASIN 2: EXISTING AREA										
COMPUTE NM HYD	102.10	–	2	.00158	3.70	.147	1.74197	1.500	3.658 PER IMP=	54.00
ADD HYD	105.10	1& 2	5	.00323	7.36	.296	1.72007	1.500	3.562	
ROUTE RESERVOIR	106.10	5	6	.00323	2.55	.297	1.72269	1.750	1.235 AC-FT=	.110
FINISH										

1 inch = 20 ft.



FEMA PANEL 336 OF 825



VICINITY MAP ZAP M-9-Z NTS

LEGEND

ITEM	EXISTING	PROPOSED
CURB AND GUTTER		
SPOT ELEV.	× 16.7	⊕ 16.7
FIRE HYDRANT		
FLOWLINE ELEVATION	FL 16.20 RET FL 16.20	
CONTOUR W/ ELEVATION	92 / 4990	92 / 90
BASIN DIVIDE		
ASPHALT PAVING		
DRAINAGE SWALE		
DIRECTION OF FLOW		
ACCESSIBLE AREA		
MOTORCYCLE PARKING		
CONCRETE		
POWER POLE WITH ANCHOR		
OVERHEAD UTILITY WITH POWER POLE	OHU	
FENCE		
EASEMENT		
OVER HEAD DOOR		OHD
BASIN BOUNDARY		

GRADING & DRAINAGE PLAN

PURPOSE AND SCOPE:

PURSUANT TO THE ESTABLISHED DRAINAGE ORDINANCE OF THE CITY OF ALBUQUERQUE AND THE DEVELOPMENT PROCESS MANUAL, THIS GRADING AND DRAINAGE PLAN OUTLINES THE DRAINAGE MANAGEMENT CRITERIA FOR CONTROLLING DEVELOPED RUNOFF FROM THE PROJECT SITE. THE PROJECT CONSISTS OF THE DEVELOPMENT OF THE EXISTING PROPERTY BY CONSTRUCTING ADDITIONAL AFFORDABLE HOUSING AND PARKING LOT. PROPOSED SITE IMPROVEMENTS INCLUDE PAVING, UTILITY, LANDSCAPING, GRADING AND DRAINAGE IMPROVEMENTS. THIS GRADING PLAN AND A GRADING-TRAFFIC CIRCULATION CERTIFICATION IS PREPARED TO SUPPORT A BUILDING PERMIT APPLICATION.

EXISTING CONDITIONS:

THE PROJECT SITE CONTAINS APPROXIMATELY TWO ACRES AND IS LOCATED AT 9901 BENAVIDES SW. THE SITE IS PRESENTLY UNDEVELOPED. IT IS BOUNDED ON THE NORTH AND EAST BY THE SNOW VISTA CHANNEL, ON THE WEST BY WEST GATE HTS. AND ON THE SOUTH BY WEST SIDE BAPTIST CHURCH. CURRENTLY, RUNOFF DRAINS INTO THE CHANNEL. NO OFFSITE FLOW IMPACTS THE SITE.

AS SHOWN BY THE FIRM PANEL FOR THIS AREA, THIS PROPERTY IS NOT LOCATED WITHIN A DESIGNATED FLOOD HAZARD ZONE.

PROPOSED CONDITIONS:

AS SHOWN BY THE PLAN, THE PROPERTY IS TO BE DEVELOPED BY CONSTRUCTING ADEQUATE, AFFORDABLE HOUSING.

ALL DRAINAGE FLOWS WILL BE MANAGED BY ON-SITE SWALES, CONVEYING RUNOFF TO A DETENTION POND WHICH WILL DRAIN INTO THE CHANNEL. GRADING WILL BE GENTLE TO MAKE RESIDENTIAL LOTS DESIRABLE AND ALSO SHEET THE FLOWS TO EITHER THE SMALL XXXX CHANNEL OR THE POND. THE FLOW WILL BE THROTTLED TO A MAXIMUM OF 2.6 CFS. THE POND WILL ALSO ACT AS A TRASH RETAINER BY STRAINING THE DETRITIS AT THE THROTTLING STRUCTURE AS THE FLOW ENTERS THE CHANNEL. FLOW ARROWS ARE GIVEN TO DEMONSTRATE THE DIRECTION OF DRAINAGE FLOWS, AND PROJECT HYDROLOGY IS GIVEN FOR BOTH EXISTING AND DEVELOPED CONDITIONS.

TEMPORARY EROSION CONTROL :

TEMPORARY EROSION CONTROL MEASURES WILL BE IMPLEMENTED DURING CONSTRUCTION TO LIMIT THE DISCHARGE OF SEDIMENT FROM THE SITE TO ADJACENT PROPERTIES. IT IS THE CONSTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL TEMPORARY EROSION CONTROL MEASURES UNTIL COMPLETION OF ALL SITE PAVING, GRADING, DRAINAGE AND LANDSCAPING IMPROVEMENTS. SINCE THE SITE CONTAINS MORE THAN 1.0 ACRES, A SWPPP IS REQUIRED. THE SWPPP IS TO BE PREPARED BY OTHERS.

CALCULATIONS:

THE CALCULATIONS SHOWN HEREON DEFINE THE 100 YEAR, 6 HOUR DESIGN STORM IMPACTING THE SITE AND CONTRIBUTING OFF-SITE DRAINAGE BASINS UNDER EXISTING AND DEVELOPED CONDITIONS. THE AHYMO METHOD OF ESTIMATING PEAK RUNOFF IS PRESENTED AS OUTLINED IN THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, SECTION 22.2, PART 'A', UPDATED JULY 1997.

DRAINAGE PLAN NOTES

1. BLI recommends that the Owner obtain a Geotechnical Evaluation of the on-site soils prior to foundation/structural design.
2. This Plan recommends positive drainage away from all structures to prohibit ponding of runoff which may cause structural settlement. Future alteration of grades adjacent to the proposed structures is not recommended.
3. Irrigation within 10 feet of any proposed structure is not recommended. Introduction of irrigation water into subsurface soils adjacent to the structure could cause settlement.
4. This Plan is prepared to establish on-site drainage and grading criteria only. BLI assumes no responsibility for subsurface analysis, foundation/structural design, or utility design.
5. Local codes may require all footings to be placed in natural undisturbed soil. If the Contractor plans to place footings on engineered fill, a certification by a registered Professional Engineer will be required. If the contractor wishes BLI to prepare the Certification, we must be notified PRIOR to placement of the fill.
6. BLI recommends that the Owner obtain the services of a Geotechnical Engineer to test and inspect all earthwork aspects of the project.
7. The property boundary shown on this Plan is given for information only to describe the project limits. Property boundary information shown hereon does not constitute a boundary survey. A boundary survey performed by a licensed New Mexico Registered Professional Surveyor is recommended prior to construction.
8. All spot elevations are top of pavement unless noted otherwise.

PROJECT DATA

PROPERTY ADDRESS
9901 BENEVIDES SW

LEGAL DESCRIPTION
A PORTION OF TRACT 50-B-2,
REPLAT OF TRACTS 50-A & 50-B,
UNIT 5, ATRISCO VILLAGE,
ALBUQUERQUE, NEW MEXICO
MARCH, 2008

PROPERTY ZONING
M-1

MAPPING
ALL PROJECT SURVEYING
BY THOMAS JOHNSTON,
NMPLS 14269, JUNE 2007

PROJECT BENCHMARK
ACS STATION "8-F15"
ELEV = 4973.196'
NGVD 1988

RECEIVED
JUL 03 2008
HYDROLOGY SECTION

BRASHER & LORENZ
CONSULTING ENGINEERS
2201 San Pedro NE Building 1 Suite 1200
Albuquerque, New Mexico 87110
Ph: 505-888-6088 Fax: 505-888-6188

WALLACE L. BINGHAM NEW MEXICO 7281 REGISTERED PROFESSIONAL ENGINEER 7-03-08

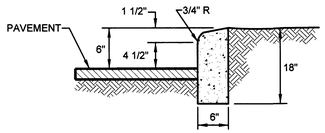
GRADING AND DRAINAGE PLAN
NEW LIFE HOME - SIX

DRAWN	WLB	CHECKED	DAL
BLI JOB	08509	DATE	05-14-2008
SCALE	1" = 20'		
SHEET	C2		

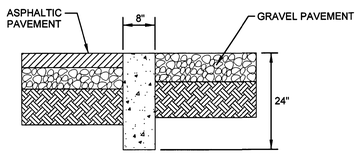
NOTES:

1. SIGN SHALL BE VERTICALLY MOUNTED ON A POST OR A WALL AT FRONT CENTER OF ACCESS AISLE, NO MORE THAN 5'-0" HORIZONTALLY FROM THE FRONT OF THE PARKING SPACE AND SET A MINIMUM OF 5'-0" ABOVE FINISH GRADE TO THE BOTTOM OF THE SIGN.
2. REFER TO SITE PLAN FOR LOCATION OF RESERVED PARKING SPACES.
3. COLORS - LEGEND AND BORDER - GREEN
   WHITE SYMBOL ON BLUE BACKGROUND
   BACKGROUND - WHITE

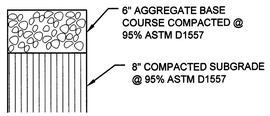
ACCESSIBLE PARKING SIGN — K / C-3
NTS



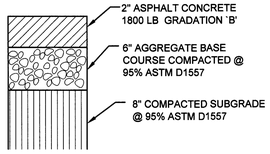
CONCRETE HEADER CURB — L / C-3
NTS



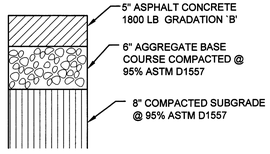
CUT-OFF WALL — M / C-3
NTS



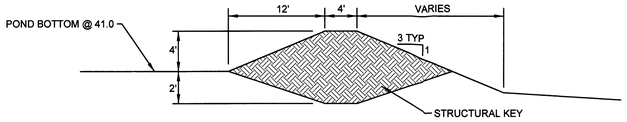
GRAVEL PAVEMENT SECTION — N / C-3
NTS



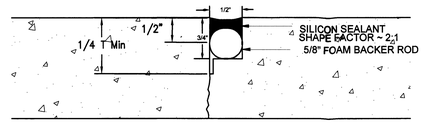
LIGHT DUTY PAVEMENT SECTION — O / C-3
NTS



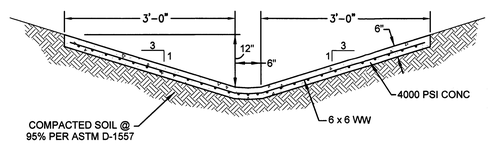
HEAVY DUTY PAVEMENT SECTION — P / C-3
NTS AT REFUSE ENCLOSURE



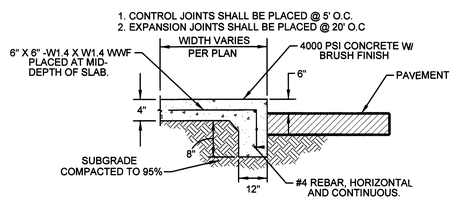
POND BERM SECTION — G / C-3
NTS



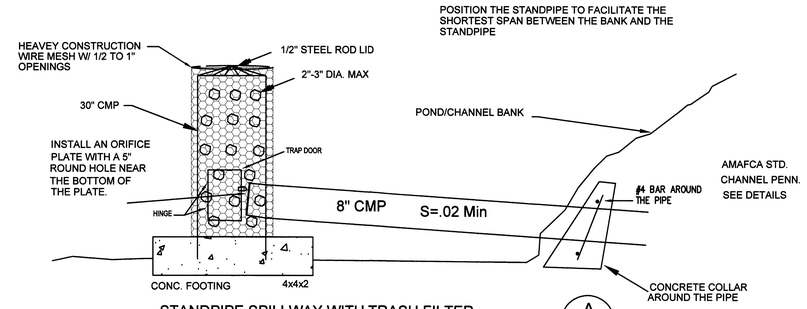
CONTRACTION JOINT DETAIL — E / C-3
NTS



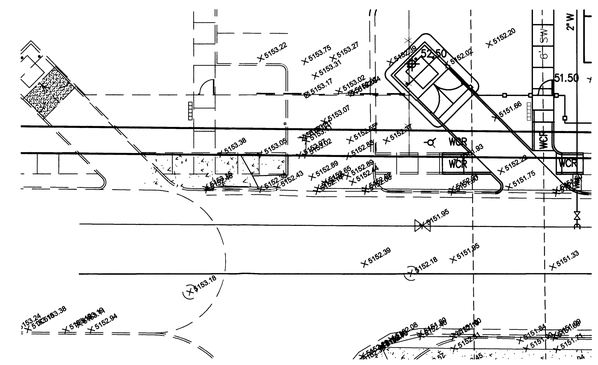
TRAPEZOIDAL CHANNEL SECTION — H / C-3
NTS



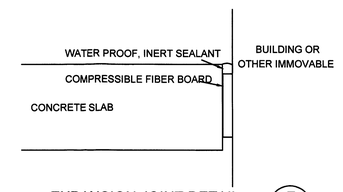
TURNDOWN SIDEWALK — J / C-3
NTS



STANDPIPE SPILLWAY WITH TRASH FILTER — A / C-3
NTS



REFUSE ENCLOSURE DRIVEPAD DETAIL — A / C-3
SCALE: 1"= 20'-0"



EXPANSION JOINT DETAIL — E / C-3
NTS

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WALLACE L. BINGHAM
NEW MEXICO
(728)
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GARRETT SMITH LTD
DESIGN, ARCHITECTURE & DEVELOPMENT

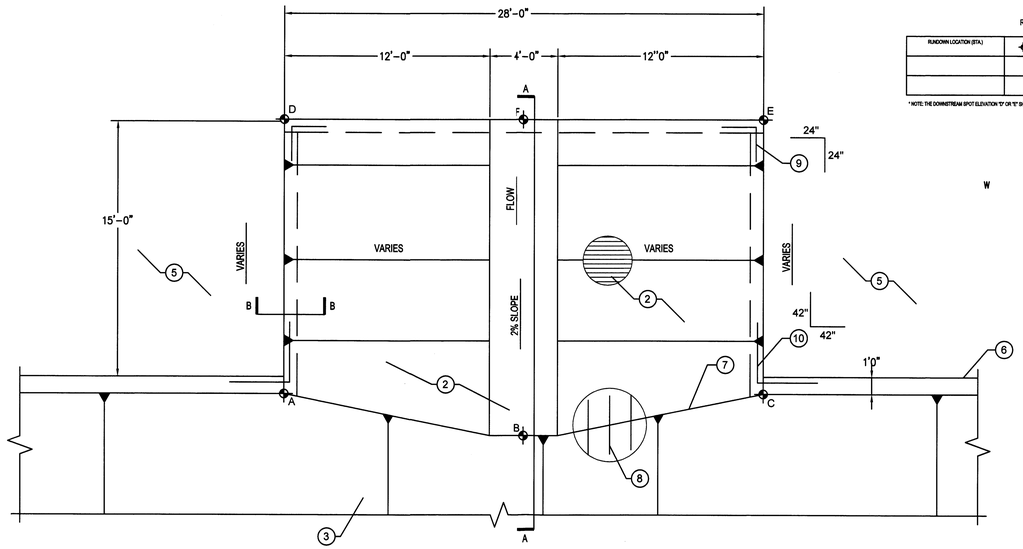
NEW LIFE HOMES - 6
ALBUQUERQUE NEW MEXICO

CONSTRUCTION DETAILS

SCALE: NTS

DATE: 04-14-08

SHT: C3



CONCRETE CHANNEL RUNDOWN PLAN
NO SCALE

RUNDOWN SPOT ELEVATION SCHEDULE

RUNDOWN LOCATION (STA.)	$\blacklozenge^{A}$	$\blacklozenge^{B}$	$\blacklozenge^{C}$	$\blacklozenge^{D}$	$\blacklozenge^{E}$	$\blacklozenge^{F}$

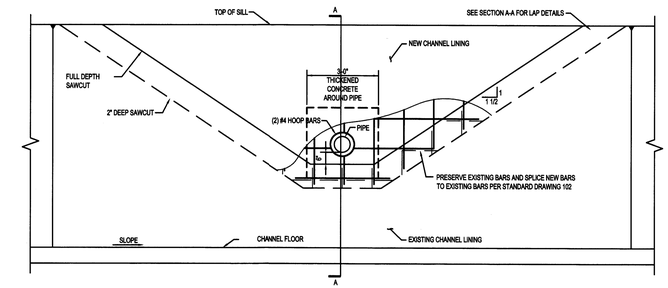
* NOTE: THE DOWNSTREAM SPOT ELEVATION "D" OR "E" SHALL BE 8" (MIN.) HIGHER

KEYED NOTES

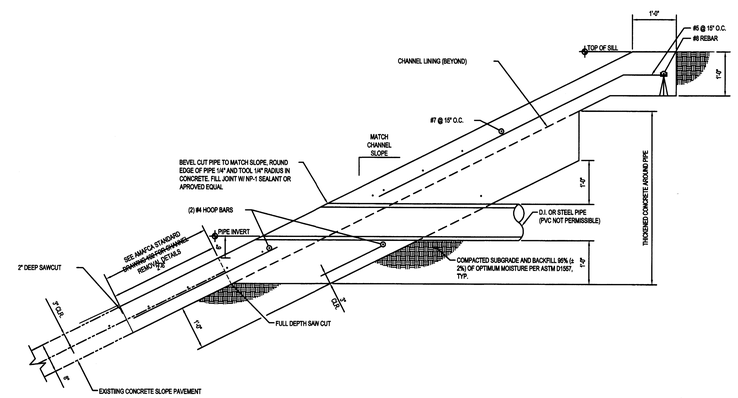
1. RUNDOWNS SHALL BE CONSTRUCTED OF 6" THICK CONCRETE WITH #5 BARS AT 15" O.C. CONCRETE SHALL BE TINTED TO MATCH CHANNEL COLOR.
2. EXPOSED CONCRETE SURFACE OF THE RUNDOWN SHALL BE FINISHED WITH A TINE FINISH TRANSVERSE TO RUNDOWN FLOW
3. 8" CHANNEL LINING
4. COMPACTED SUBGRADE – 95% MODIFIED PROCTOR, SAME CONDITIONING AS UNDER CHANNEL LINING
5. MAINTENANCE ROAD
6. CHANNEL SILL
7. ALLOWABLE CONSTRUCTION JOINT WITH KEYWAY
8. #5 DOWEL @ 15" O.C.
9. #5 CORNER BAR, TYP.
10. #8 CORNER BAR, TYP.
11. TOOLED 1/4" RADIUS BOTH SIDES WITH NP-1 SEALANT OR APPROVED EQUAL
12. #8 ON 6" SAND CHAIR

DESIGN DATA

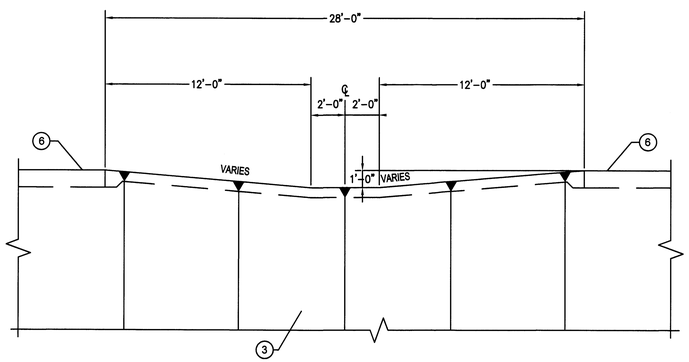
A. CAST-IN-PLACE CONCRETE:F'C = 3000 PSI
B. REINFORCING STEEL:ASTM A615 GRADE 60
C. MOISTURE AND DENSITY CONTROL: ALL FILL MATERIAL SHALL BE PLACED IN HORIZONTAL LIFTS OF 8" MAX. AND COMPACTED TO 95 PERCENT OF ASTM 1557 MAXIMUM DENSITY AT A MOISTURE CONTENT WITHIN TWO PERCENT OF THE OPTIMUM MOISTURE.



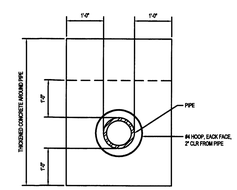
CHANNEL PENETRATION ELEVATION
NO SCALE



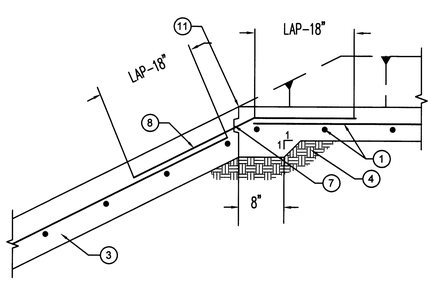
SECTION A-A
NO SCALE



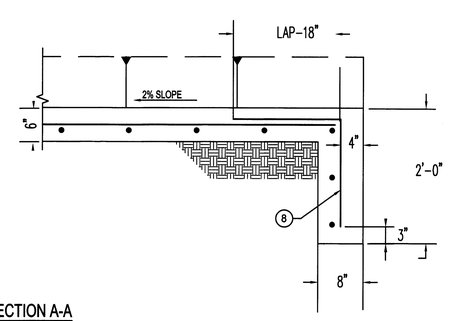
RUNDOWN ELEVATION
NO SCALE

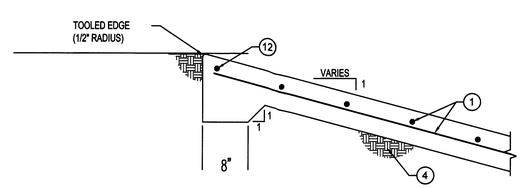


DETAIL 1
NO SCALE



RUNDOWN SECTION A-A
NO SCALE





RUNDOWN SECTION B-B
NO SCALE

ALBUQUERQUE METROPOLITAN
ARROYO FLOOD CONTROL AUTHORITY

AMAFCA
STANDARD DETAIL
CHANNEL RUNDOWN
PLAN AND DETAILS

RECEIVED
JUL 3 2008
HYDROLOGY SECTION

DRAWING NO. 108	MAP NO.	SHEET	OF

REVISIONS

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NEW LIFE HOMES - 6
ALBUQUERQUE NEW MEXICO

CONSTRUCTION DETAILS

SCALE: NTS

DATE: 04-14-08

SHT: C4