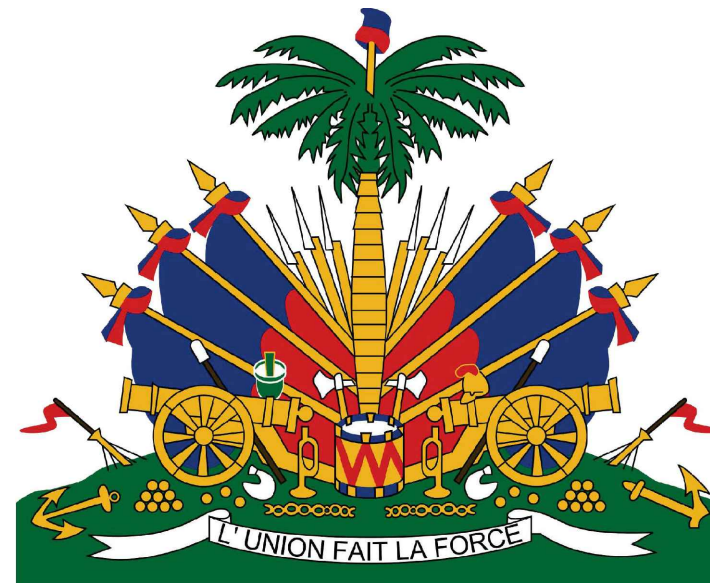


GOVERNMENT OF HAITI AND UNITED STATES AGENCY FOR INTERNATIONAL DEVELOPMENT



EKAM SETTLEMENT ADDITIONAL DRAINAGE WORKS

12 JANUARY 2018
REVISED: 10 APRIL 2018



100

2

DRAWING
REFERENCE
NUMBER:

**NHSUP
G-001**

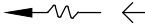
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LEGEND

LINETYPES

	W	EXISTING WATER LINE
	W	PROPOSED WATER LINE
	X	CHAIN-LINK FENCE
		OTHER FENCE
	D	DRAIN LINE
		LIMITS OF PROPOSED DRAINAGE CHANNEL
		LIMITS OF EXISTING DRAINAGE CHANNEL

SYMBOLS

	SEWER VENT
	FLOW ARROWS
	DRAINAGE CHANNEL
	HEAD WALL
	CULVERT
	DRAINAGE SWALE

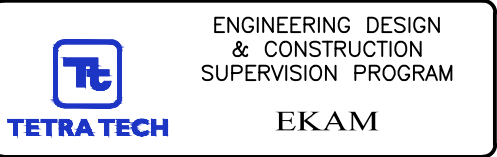
ABBREVIATIONS

ABR:	ANAEROBIC BAFFLED REACTOR TANK
APPROX:	APPROXIMATELY
CP:	CHEMICAL METERING PUMP
DICL:	DUCTILE IRON CONCRETE-LINED
DIP:	DUCTILE IRON PIPE
DIA:	DIAMETER
EL/ELEV:	ELEVATION
FT:	FOOT OR FEET
HORIZ:	HORIZONTAL
IN:	INCH OR INCHES
MIN:	MINIMUM
MJ:	MECHANICAL JOINT
NTS:	NOT TO SCALE
P:	PUMP
PROP:	PROPOSED
PVC:	POLYVINYL CHLORIDE
RCP:	REINFORCED CONCRETE PIPE
RP:	RAW WATER INTAKE PUMP
SMH:	SEWER MANHOLE
S.S.:	STAINLESS STEEL
STA:	STATION
TYP:	TYPICAL
uPVC:	UNPLASTICIZED POLYVINYL CHLORIDE
W	WATER/WELL

GENERAL NOTES

- THE CONTRACTOR SHALL TAKE NOTE OF EROSION AND SEDIMENTATION CONTROL FEATURES SHOWN ON THE PLANS IN ADDITION TO THE REQUIREMENTS OF THE SPECIFICATIONS AND ALL ENVIRONMENTAL MITIGATION MANAGEMENT PLAN (EMMP) REQUIREMENTS.
- EXISTING UTILITIES, WHERE SHOWN IN THE DRAWINGS, ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY LOCATING AND COORDINATING ANY PROPOSED CONSTRUCTION ACTIVITY WITH THE APPLICABLE UTILITY OWNER. THE GOVERNMENT DOES NOT GUARANTEE THE ACCURACY OF UTILITY LOCATIONS OR THE COMPLETENESS OF THE UTILITIES SHOWN. THE LOCATIONS AND ATTRIBUTES OF SUBSURFACE AND ABOVE-GROUND UTILITIES HAVE BEEN COMPILED FROM AVAILABLE RECORD PLAN DATA AND NOTES, AS WELL AS FIELD OBSERVATIONS. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
- WALLS, FENCES, SIGNS, LIGHT POLES, ETC. SHALL BE REMOVED AS NECESSARY TO PERFORM THE WORK AND BE REPLACED TO A CONDITION AT LEAST EQUAL TO THAT BEFORE CONSTRUCTION BEGAN, UNLESS OTHERWISE INDICATED. ALL SUCH WORK SHALL BE INCIDENTAL TO THE CONSTRUCTION OF THE PROJECT.
- LOCATION AND SIZE OF SITE FEATURES SHOWN IN AN APPROXIMATE WAY ONLY AND ARE INTENDED AS A GENERAL CONFIGURATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE EXACT DIMENSIONS FOR THE IMPLEMENTATION OF THE PROPOSED WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEWATERING OPERATIONS REQUIRED TO SUCCESSFULLY COMPLETE THE PROJECT IN ACCORDANCE WITH REQUIREMENTS OF THE TECHNICAL SPECIFICATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY AND MAINTAINING A HEALTH AND SAFETY PLAN DURING CONSTRUCTION.
- CONTRACTOR SHALL IMPLEMENT THE APPROVED ENVIRONMENTAL MITIGATION AND MANAGEMENT PLAN AS PART OF THE SCOPE OF THE WORK CONTAINED HEREIN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL ADJACENT TO CONSTRUCTION ZONES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE AND DISTURBANCE CAUSED BY CONSTRUCTION OPERATIONS, WHETHER INTENTIONAL OR UNINTENTIONAL. ALL ROADS, DITCHES, YARDS, AND STRUCTURES SHALL BE REPAIRED/RETURNED TO EXISTING CONDITIONS OR BETTER.
- THE CONTRACTOR SHALL VERIFY ALL LINES, GRADES, AND INVERTS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES FOUND BETWEEN THE PLANS AND THE CONTRACTORS SURVEY SHALL BE BROUGHT TO THE ATTENTION OF USAID'S TECHNICAL REPRESENTATIVE.
- WORK IDENTIFIED IN THIS PACKAGE IS TO BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS WHICH INCLUDE THE TECHNICAL SPECIFICATIONS UNLESS OTHERWISE NOTED HEREIN OR DIRECTED IN WRITING.

UNLESS OTHERWISE NOTED, ALL LINEAR
DIMENSIONS SHOWN ARE IN FEET



PROJECT TITLE:

EKAM SETTLEMENT ADDITIONAL
DRAINAGE WORKS PACKAGE
127-1298-15001

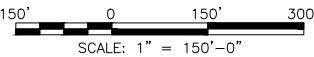
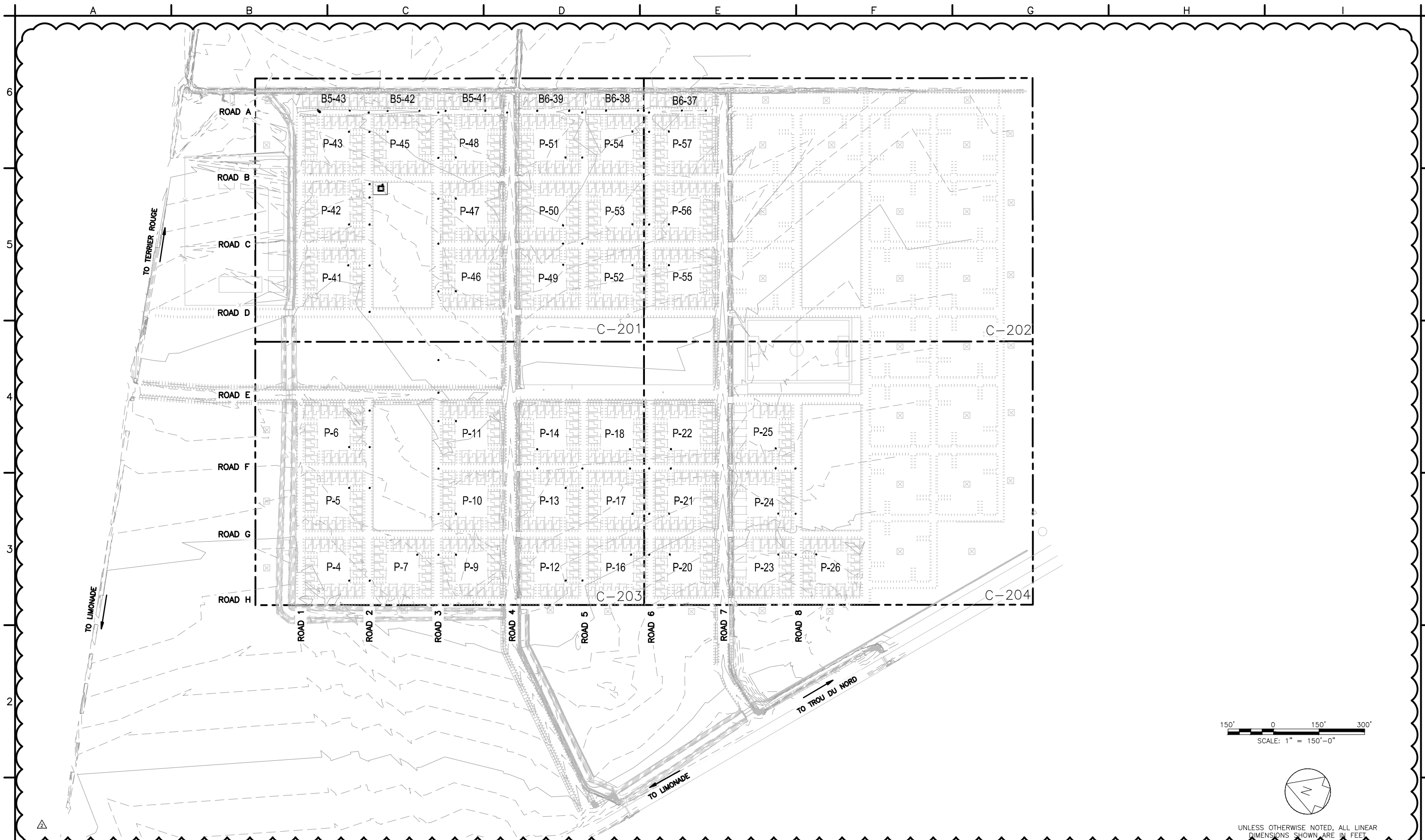
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		NFC	TETRA TECH
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		FAS	NHSUP-C-001

SYMB	SUBMITTAL/REVISION	DESCRIPTION	DATE	APR

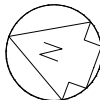
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NHSUP
C-001

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SCALE: 1" = 150'-0"



UNLESS OTHERWISE NOTED, ALL LINEAR DIMENSIONS SHOWN ARE IN FEET



GOVERNMENT OF HAITI
AND
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INTERNATIONAL DEVELOPMENT



ENGINEERING DESIGN
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SUPERVISION PROGRAM

EKAM

PROJECT TITLE:

EKAM SETTLEMENT ADDITIONAL
DRAINAGE WORKS PACKAGE
127-1298-15001

SHEET CONTENTS:

ROADWAY IMPROVEMENT
KEY MAP

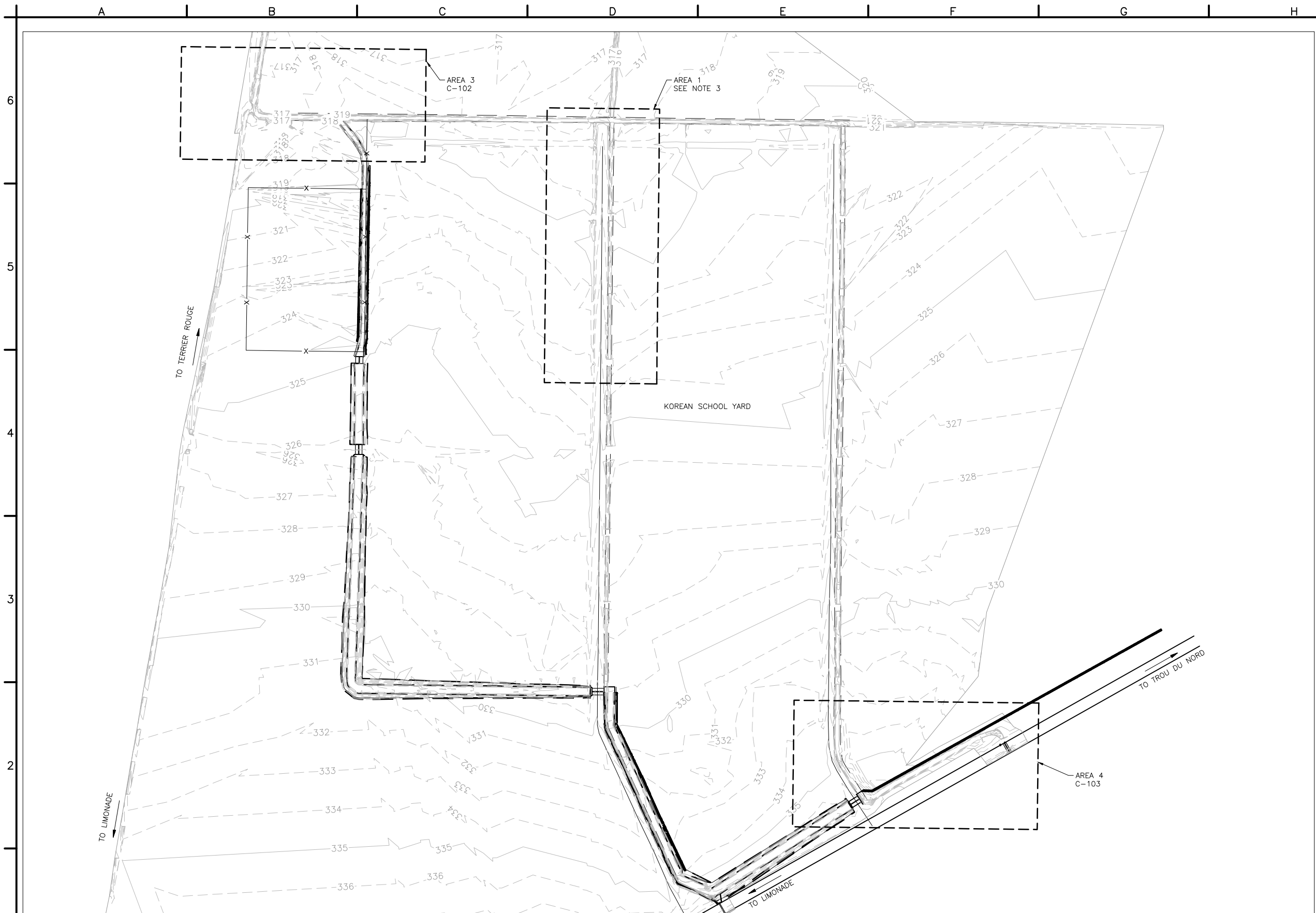
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MJC	TETRA TECH
CHECKED BY:	CAD FILE NAME:
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	SUBMITTAL/REVISION DESCRIPTION	DATE	

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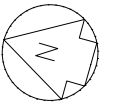
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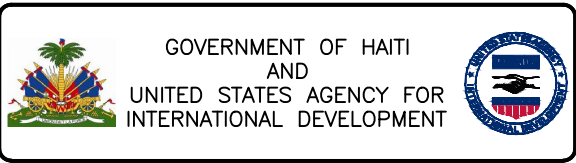


- NOTE:
1. EXISTING CONTOUR INFORMATION WAS GIVEN TO TETRA TECH BY DFS.
 2. CHANNEL AND CULVERT DIMENSIONS ARE IN FEET AND INCHES UNLESS SPECIFIED OTHERWISE.
 3. AREA 1 DENOTES THE LIMITS OF DRAINAGE SWALE IMPROVEMENT WORK THAT WILL BE DETAILED IN A SEPARATE "ADDITIONAL DRAINAGE WORKS" PACKAGE.

150' 0 150' 300'
SCALE: 1" = 150'-0"



UNLESS OTHERWISE NOTED, ALL LINEAR DIMENSIONS SHOWN ARE IN FEET



TETRA TECH

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PROJECT TITLE:

EKAM SETTLEMENT ADDITIONAL
DRAINAGE WORKS PACKAGE
127-1298-15001

SHEET CONTENTS:

DRAINAGE IMPROVEMENT
SITE PLAN

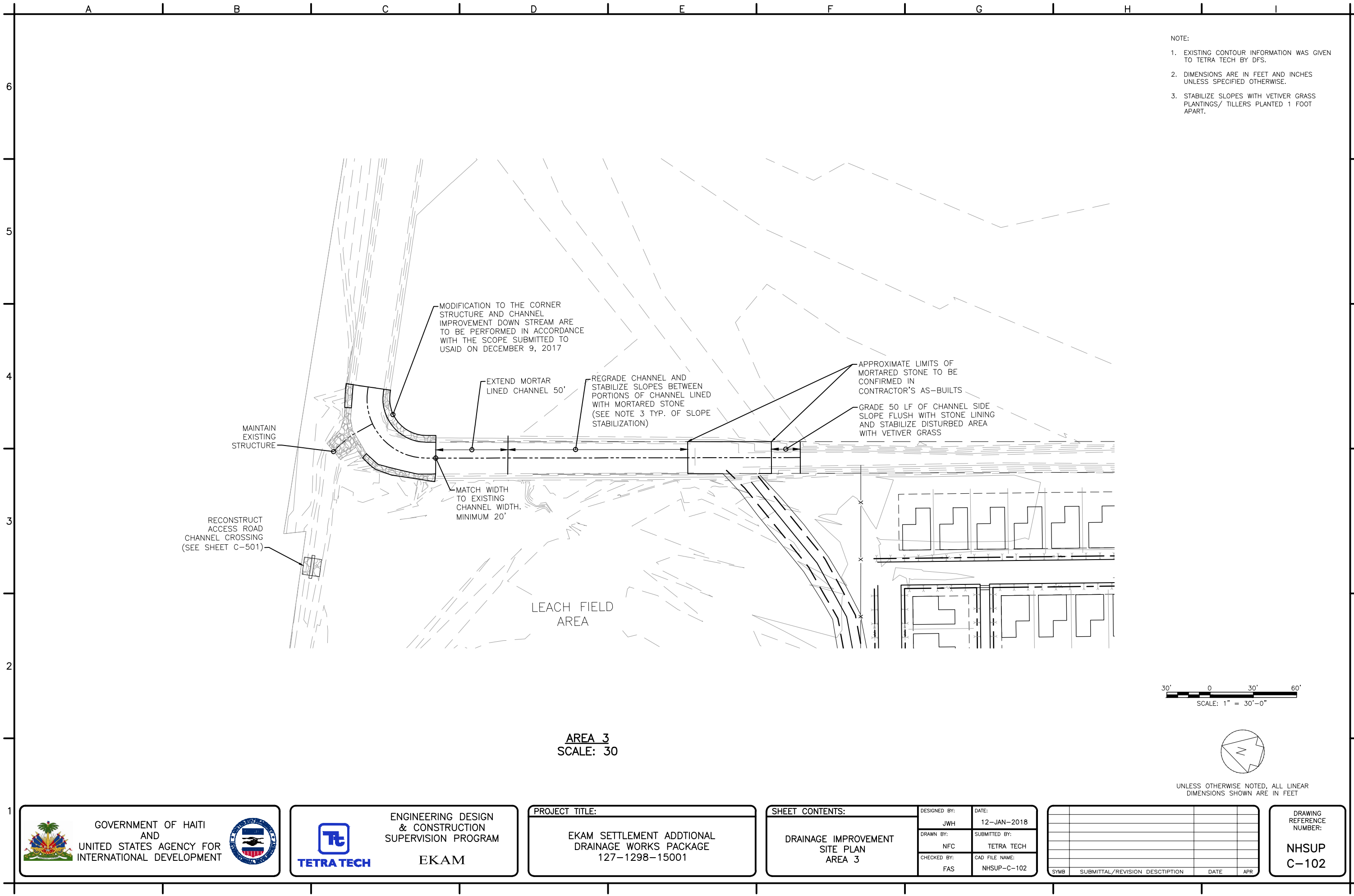
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C-101**

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- NOTE:
1. EXISTING CONTOUR INFORMATION WAS GIVEN TO TETRA TECH BY DFS.
 2. DIMENSIONS ARE IN FEET AND INCHES UNLESS SPECIFIED OTHERWISE.
 3. STABILIZE SLOPES WITH VETIVER GRASS PLANTINGS/ TILLERS PLANTED 1 FOOT APART.

AREA 3
SCALE: 30



GOVERNMENT OF HAITI
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PROJECT TITLE:

EKAM SETTLEMENT ADDITIONAL
DRAINAGE WORKS PACKAGE
127-1298-15001

SHEET CONTENTS:

DRAINAGE IMPROVEMENT
SITE PLAN
AREA 3

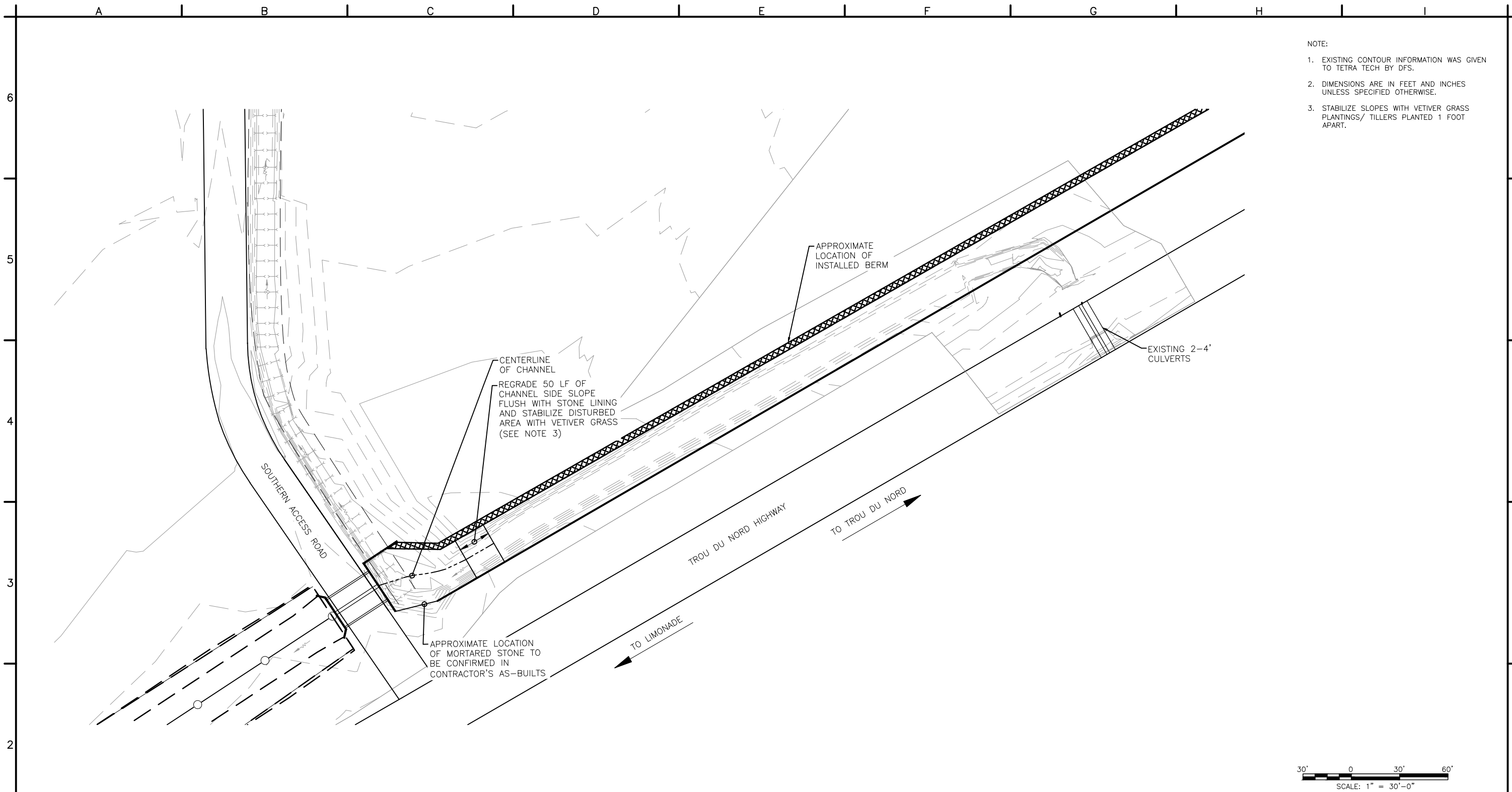
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NHSUP
C-102

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AREA 4
SCALE: 30



GOVERNMENT OF HAITI
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EKAM SETTLEMENT ADDITIONAL
DRAINAGE WORKS PACKAGE
127-1298-15001

SHEET CONTENTS:

DRAINAGE IMPROVEMENT
SITE PLAN
AREA 4

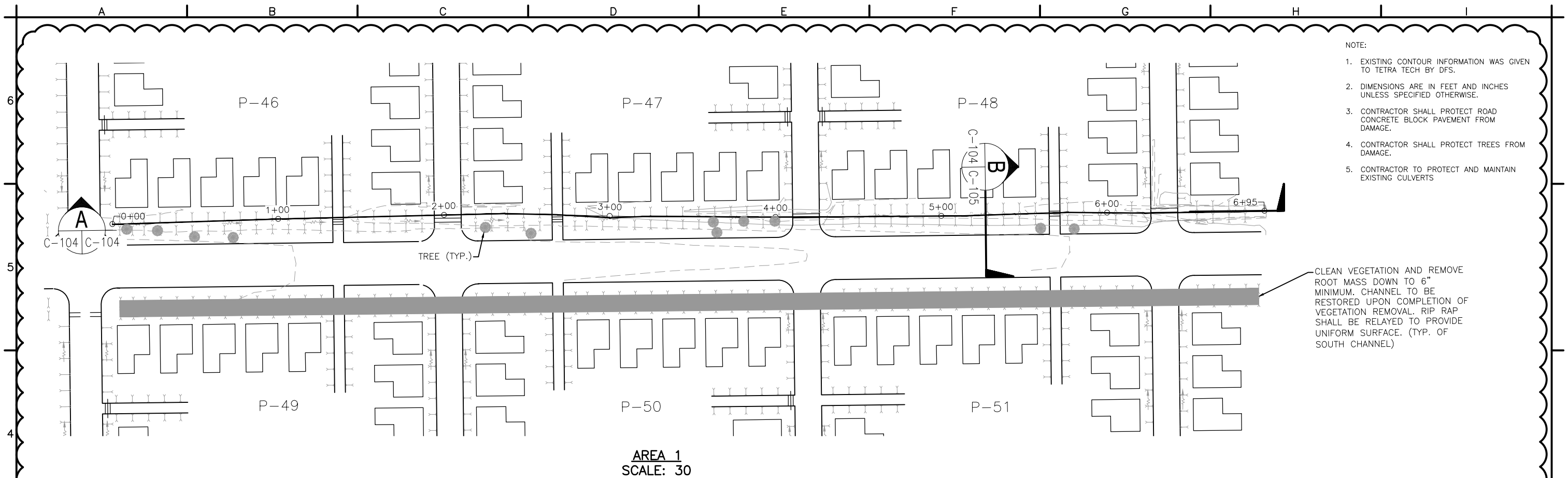
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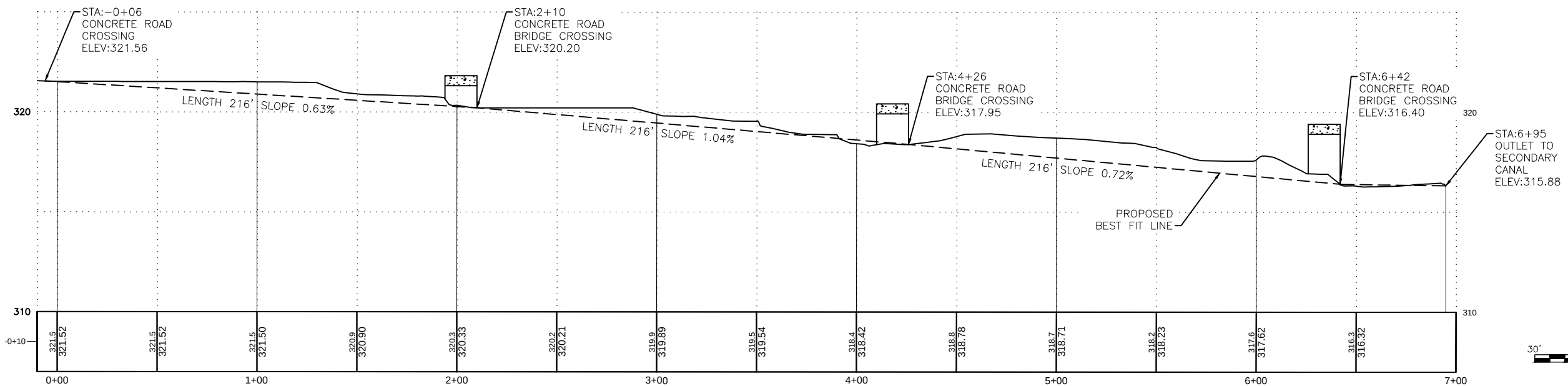
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NUMBER:

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C-103

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- NOTE:
1. EXISTING CONTOUR INFORMATION WAS GIVEN TO TETRA TECH BY DFS.
 2. DIMENSIONS ARE IN FEET AND INCHES UNLESS SPECIFIED OTHERWISE.
 3. CONTRACTOR SHALL PROTECT ROAD CONCRETE BLOCK PAVEMENT FROM DAMAGE.
 4. CONTRACTOR SHALL PROTECT TREES FROM DAMAGE.
 5. CONTRACTOR TO PROTECT AND MAINTAIN EXISTING CULVERTS

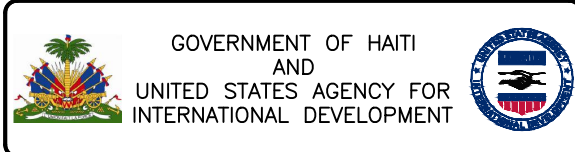


Swale Centerline A-A
Alignment - Swale Centerline

30' 0 30' 60'
SCALE: 1" = 30'-0"



UNLESS OTHERWISE NOTED, ALL LINEAR DIMENSIONS SHOWN ARE IN FEET



PROJECT TITLE:
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127-1298-15001

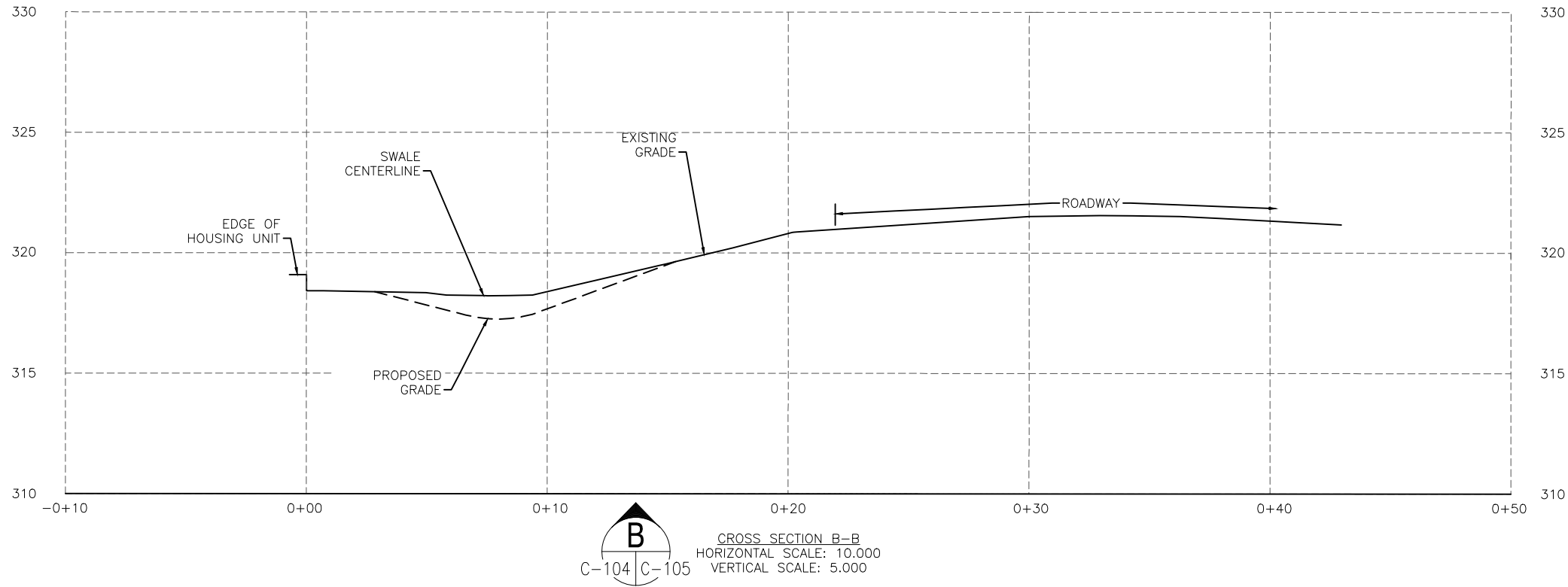
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DRAINAGE IMPROVEMENT
SITE PLAN
AREA 1

DESIGNED BY:	DATE:
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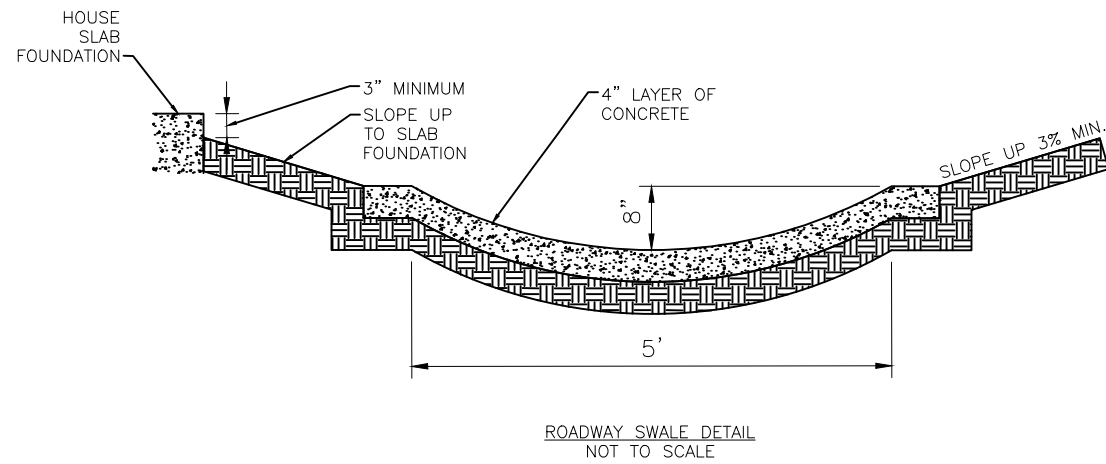
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C-104

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- NOTE:
1. EXISTING CONTOUR INFORMATION WAS GIVEN TO TETRA TECH BY DFS.
 2. DIMENSIONS ARE IN FEET AND INCHES UNLESS SPECIFIED OTHERWISE.
 3. CONTRACTOR SHALL PROTECT ROAD CONCRETE BLOCK PAVEMENT FROM DAMAGE.
 4. CONTRACTOR SHALL PROTECT TREES FROM DAMAGE.
 5. CONTRACTOR TO PROTECT AND MAINTAIN EXISTING CULVERTS.



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PROJECT TITLE:

EKAM SETTLEMENT ADDITIONAL
DRAINAGE WORKS PACKAGE
127-1298-15001

SHEET CONTENTS:

DRAINAGE IMPROVEMENT
SITE PLAN
AREA 1

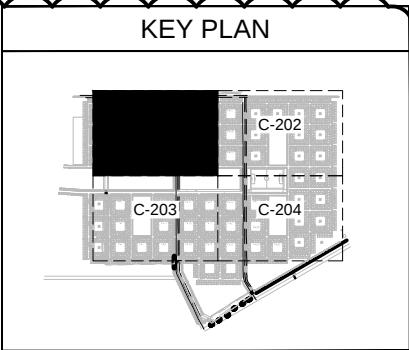
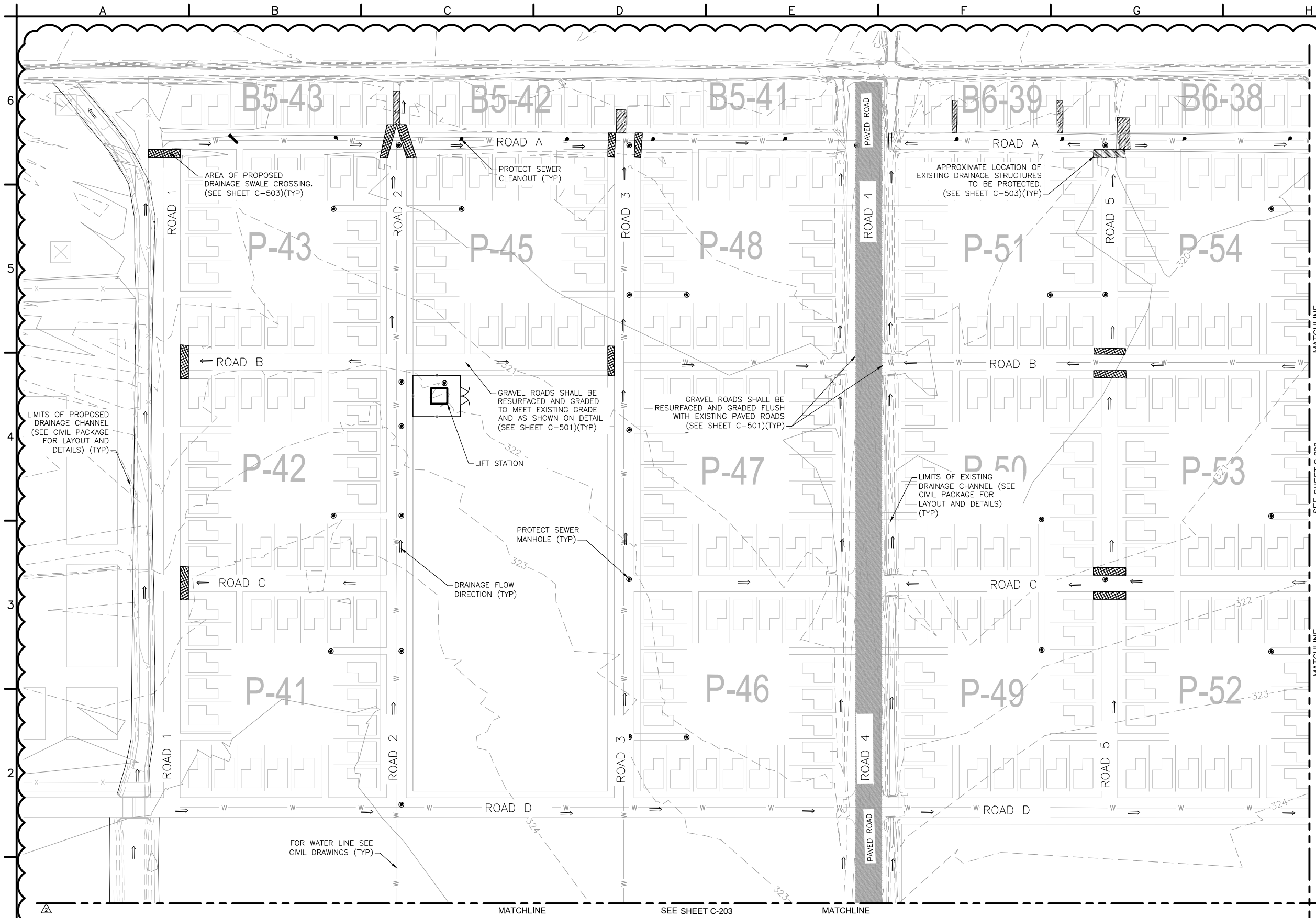
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FAS	NHSUP-C-104

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SUBMITTAL/REVISION	DESCRIPTION	DATE	APR

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C-105

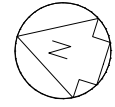
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NOTES:

1. LOCATION OF UTILITIES IS APPROXIMATE. CONTRACTOR SHOULD IDENTIFY AND PROTECT EXISTING UTILITIES.
2. SET ROAD GRAVEL FLUSH WITH MANHOLES, VALUE BOXES, AND CLEANOUT COVERS.

50' 0 50' 100'
SCALE: 1" = 50'-0"



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EKAM SETTLEMENT ADDITIONAL
DRAINAGE WORKS PACKAGE
127-1298-15001

SHEET CONTENTS:

ROADWAY IMPROVEMENT
SITE PLAN
SHEET 1 OF 4

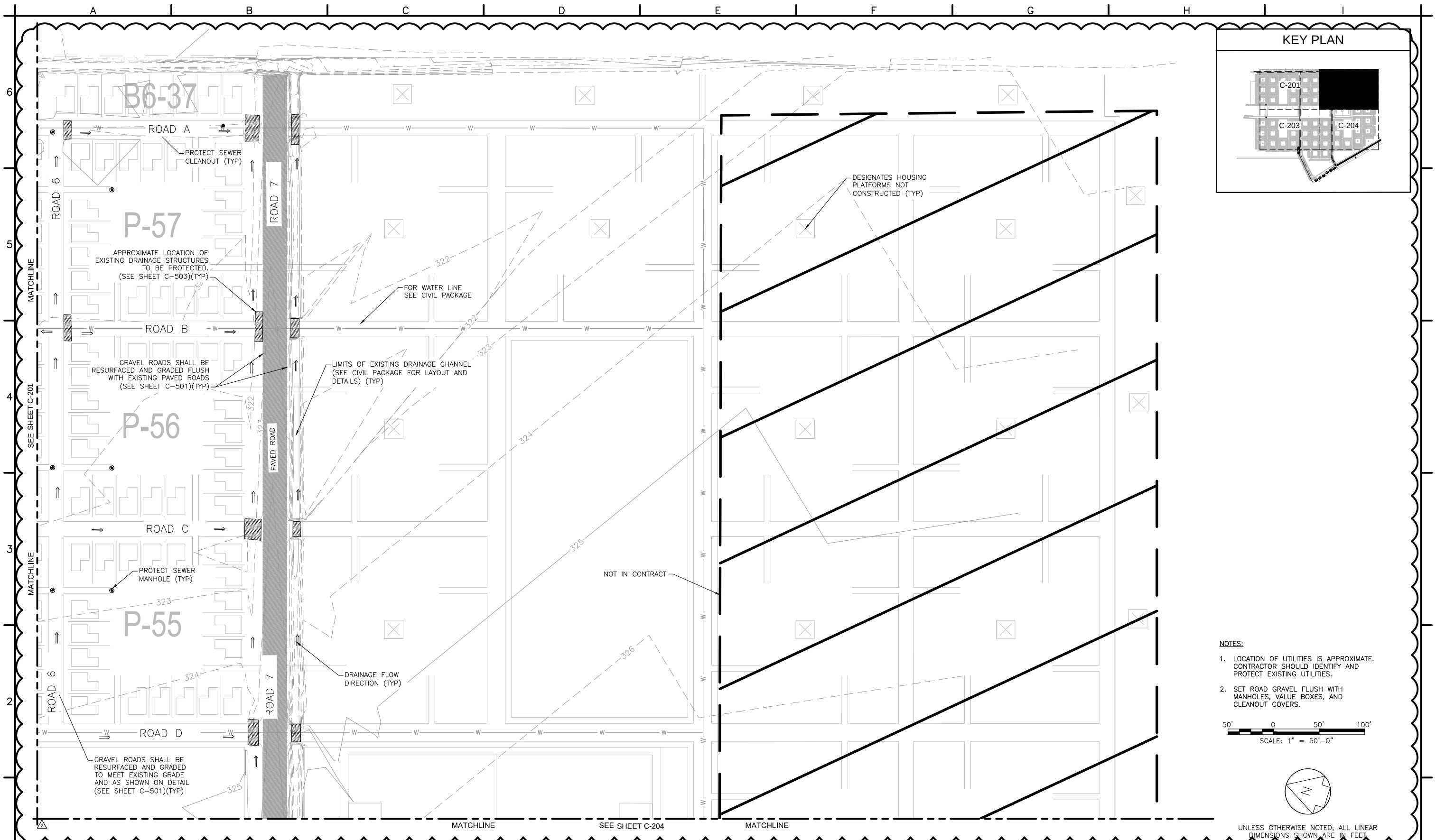
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MJC	TETRA TECH
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JWH	NHSUP-C-201

SYMB	ROAD RESURFACING	3/26/18	APR
	SUBMITTAL/REVISION DESCRIPTION	DATE	

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NUMBER:

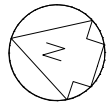
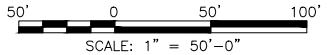
NHSUP
C-201

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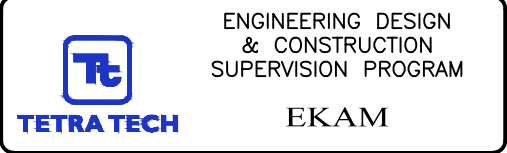
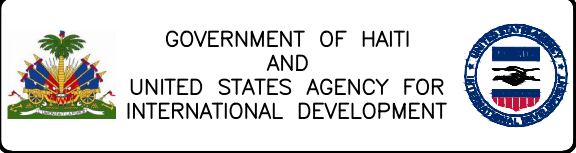


NOTES:

1. LOCATION OF UTILITIES IS APPROXIMATE. CONTRACTOR SHOULD IDENTIFY AND PROTECT EXISTING UTILITIES.
2. SET ROAD GRAVEL FLUSH WITH MANHOLES, VALUE BOXES, AND CLEANOUT COVERS.



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PROJECT TITLE:
EKAM SETTLEMENT ADDITIONAL
DRAINAGE WORKS PACKAGE
127-1298-15001

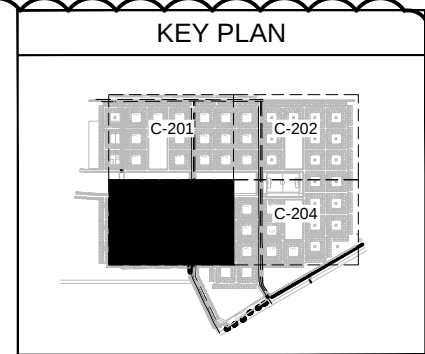
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ROADWAY IMPROVEMENT
SITE PLAN
SHEET 2 OF 4

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DRAWN BY:	SUBMITTED BY:
MJC	TETRA TECH
CHECKED BY:	CAD FILE NAME:
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SYMB	ROAD RESURFACING	3/26/18	APR
SUBMITTAL/REVISION	DESCRIPTION	DATE	

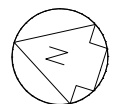
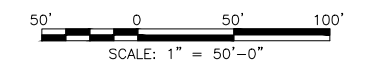
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REFERENCE
NUMBER:

NHSUP
C-202



- NOTES:

1. LOCATION OF UTILITIES IS APPROXIMATE. CONTRACTOR SHOULD IDENTIFY AND PROTECT EXISTING UTILITIES.
2. SET ROAD GRAVEL FLUSH WITH MANHOLES, VALVE BOXES, AND CLEANOUT COVERS.



UNLESS OTHERWISE NOTED, ALL LINEAR
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PROJECT TITLE:

EKAM SETTLEMENT ADDITIONAL
DRAINAGE WORKS PACKAGE
127-1298-15001

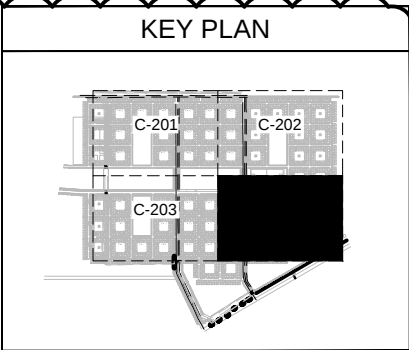
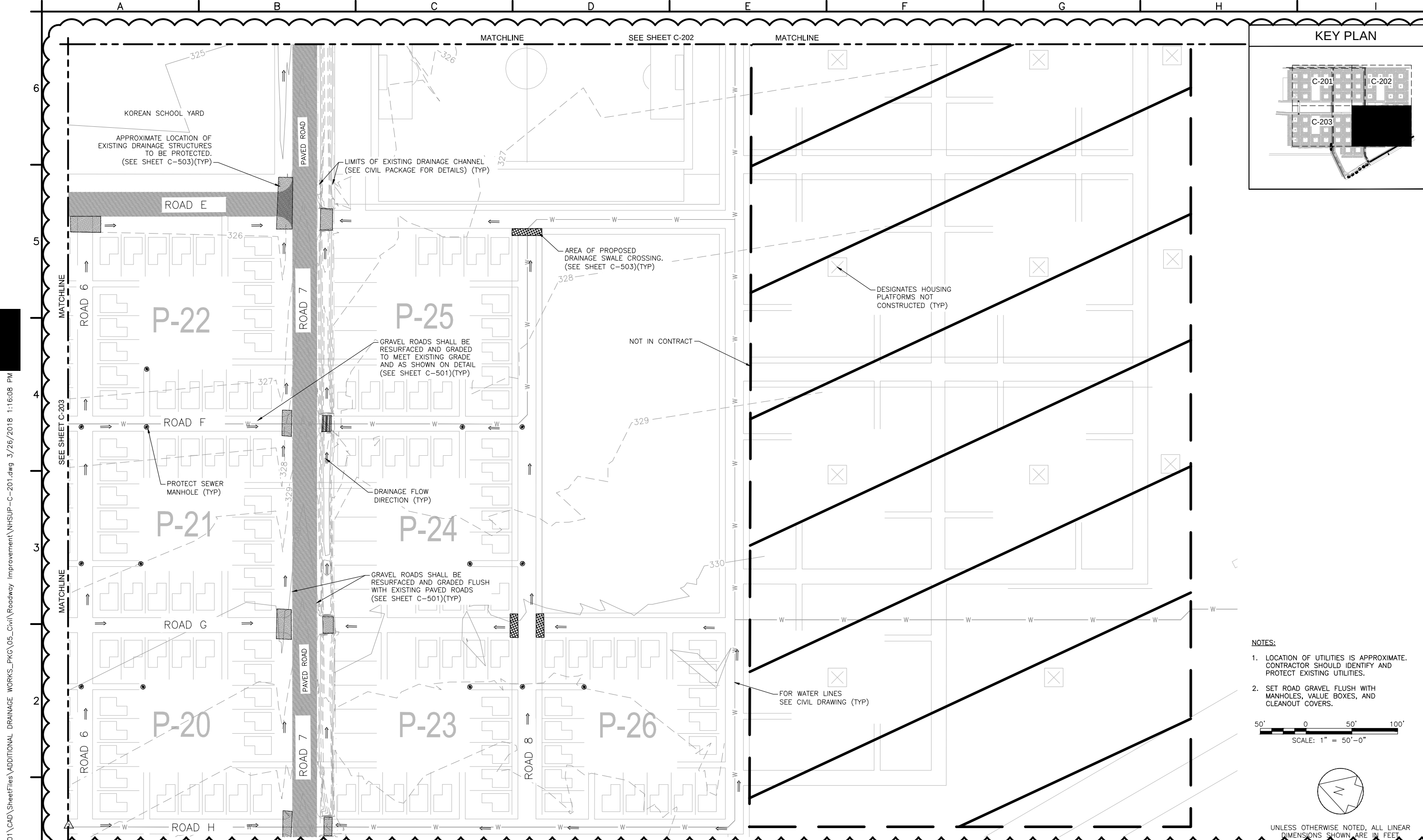
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ROADWAY IMPROVEMENT
SITE PLAN
SHEET 3 OF 4

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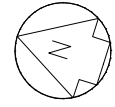
NHSUP
C-203



NOTES:

1. LOCATION OF UTILITIES IS APPROXIMATE. CONTRACTOR SHOULD IDENTIFY AND PROTECT EXISTING UTILITIES.
2. SET ROAD GRAVEL FLUSH WITH MANHOLES, VALUE BOXES, AND CLEANOUT COVERS.

50' 0 50' 100'
SCALE: 1" = 50'-0"



UNLESS OTHERWISE NOTED, ALL LINEAR DIMENSIONS SHOWN ARE IN FEET



GOVERNMENT OF HAITI
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DRAINAGE WORKS PACKAGE
127-1298-15001

SHEET CONTENTS:

ROADWAY IMPROVEMENT
SITE PLAN
SHEET 4 OF 4

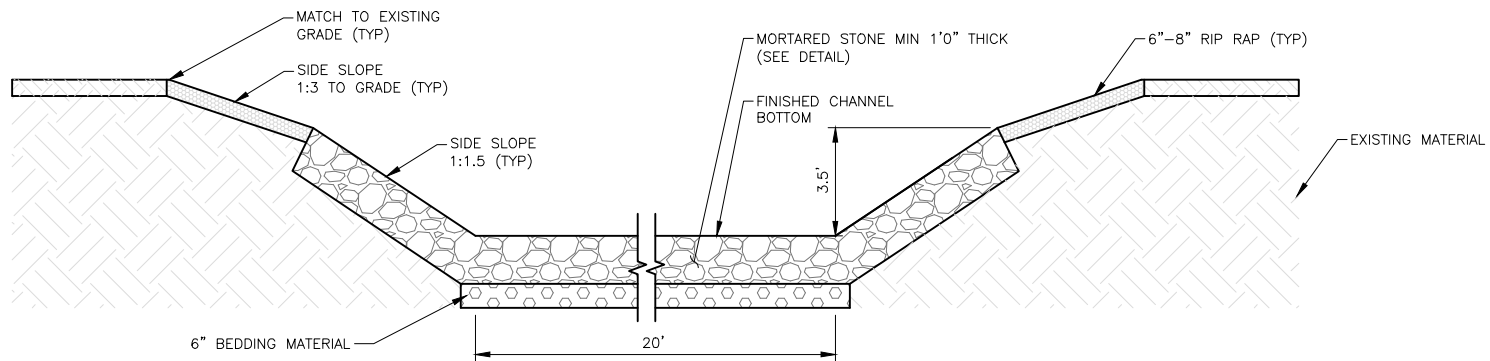
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DRAWN BY:	SUBMITTED BY:
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SYMB	ROAD RESURFACING	3/26/18	APR
	SUBMITTAL/REVISION DESCRIPTION	DATE	

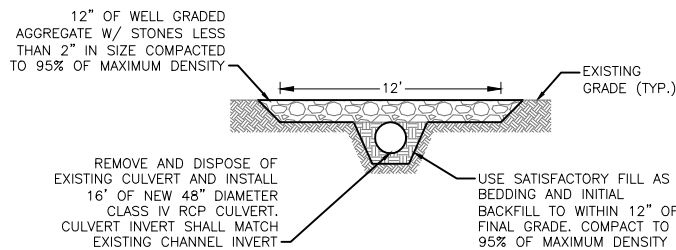
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NUMBER:

NHSUP
C-204

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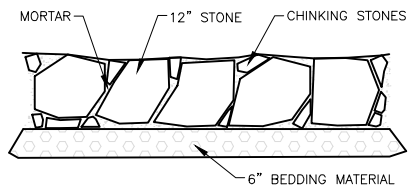


PROPOSED DRAINAGE CHANNEL
TYPE 1 TYPICAL DETAIL
NTS



- NOTES:
1. STABILIZE THE AREA AROUND THE CULVERT INLET/ OUTLET WITH MORTAR STONE EXTENDING 6' UPSTREAM/ DOWNSTREAM FROM THE EDGE OF THE CROSSING SURFACE.
 2. CROSSING ROAD SURFACE SHALL BE A MIN. OF 12' WIDE.

ACCESS ROAD CHANNEL
CROSSING TO LEACH FIELD
NTS



- NOTES:
1. STONE TO BE 12" THICK AND SOLID, LOOSE STONES WILL NOT BE ACCEPTED.
 2. STONES TO BE SET IN MORTAR.
 3. MORTAR TO BE FLUSH WITH FACE OF STONE AND TROWELED SMOOTH.
 4. VOIDS OVER 6" SHALL BE CHINKED WITH SMALLER STONES.

MORTARED STONE DETAIL
NTS

UNLESS OTHERWISE NOTED, ALL LINEAR DIMENSIONS SHOWN ARE IN FEET



GOVERNMENT OF HAITI
AND
UNITED STATES AGENCY FOR
INTERNATIONAL DEVELOPMENT



TETRA TECH

ENGINEERING DESIGN
& CONSTRUCTION
SUPERVISION PROGRAM

EKAM

PROJECT TITLE:

EKAM SETTLEMENT ADDITIONAL
DRAINAGE WORKS PACKAGE
127-1298-15001

SHEET CONTENTS:

DRAINAGE DITCH
DETAILS

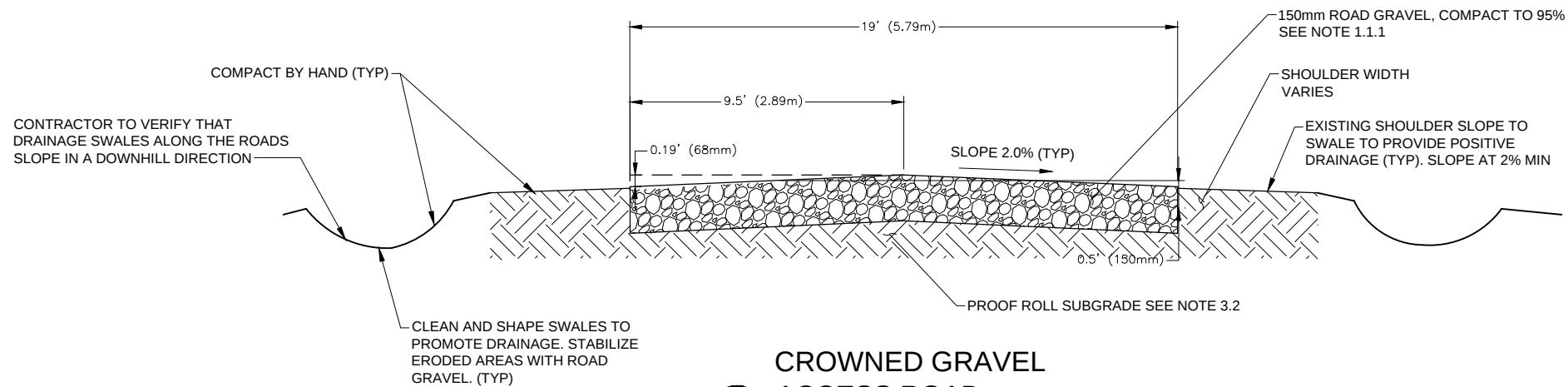
DESIGNED BY:	DATE:
JWH	12-JAN-2018
DRAWN BY:	SUBMITTED BY:
NFC	TETRA TECH
CHECKED BY:	CAD FILE NAME:
FAS	NHSUP-C-501

SYMB	AREA 1	1/29/18	APR
	SUBMITTAL/REVISION	DESCRIPTION	DATE

DRAWING
REFERENCE
NUMBER:

NHSUP
C-501

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1 CROWNED GRAVEL
ACCESS ROAD
SCALE = NONE

TABLE 1. GRADATION OF AGGREGATES	
Percentage by Weight Passing Square-Mesh Sieve	
(mm)	% Passing by Weight
75.0	100
62.5	72-100
37.5	65-100
25.0	60-100
12.5	30-65
4.75	20-50
2.00	15-40
0.425	5-25
0.075	0-8

NOTES:
1. NOTES REFERENCED IN DETAIL 1 ARE
FOUND ON SHEET G-100

UNLESS OTHERWISE NOTED, ALL LINEAR
DIMENSIONS SHOWN ARE IN FEET



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TETRA TECH

ENGINEERING DESIGN
& CONSTRUCTION
SUPERVISION PROGRAM
EKAM

PROJECT TITLE:

EKAM SETTLEMENT ADDITIONAL
DRAINAGE WORKS PACKAGE
127-1298-15001

SHEET CONTENTS:

ROADWAY IMPROVEMENT
CONSTRUCTION DETAILS
AND GENERAL NOTES

DESIGNED BY:	DATE:
JWH	12-JAN-2018
DRAWN BY:	SUBMITTED BY:
HEM	TETRA TECH
CHECKED BY:	CAD FILE NAME:
FAS	NHSUP-C-502

SYMB	ROAD RESURFACING	3/26/18	
	SUBMITTAL/REVISION	DATE	APR

DRAWING
REFERENCE
NUMBER:

**NHSUP
C-502**



1. NOTES REFERENCED IN DETAIL 1 ARE
FOUND ON SHEET G-100

A	ROAD RESURFACING		3/26/18	
Symb	SUBMITTAL / REVISION	DESCRIPTION	DATE	APR

DRAWING
REFERENCE
NUMBER:

**NHSUP
C-503**



GOVERNMENT OF HAITI
AND
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ENGINEERING DESIGN
& CONSTRUCTION
SUPERVISION PROGRAM

EKAM

EKAM SETTLEMENT ADDITIONAL
DRAINAGE WORKS PACKAGE
127-1298-15001

ROADWAY IMPROVEMENT
CONSTRUCTION DETAILS

DESIGNED BY:	DATE:
JWH	12-JAN-2018
DRAWN BY:	SUBMITTED BY:
MJC	TETRA TECH
CHECKED BY:	CAD FILE NAME:
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DRAWING
REFERENCE
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