PLANS FOR

WILD PINEAPPLE

A Subdivision by the

Virgin Islands Housing Finance Authority

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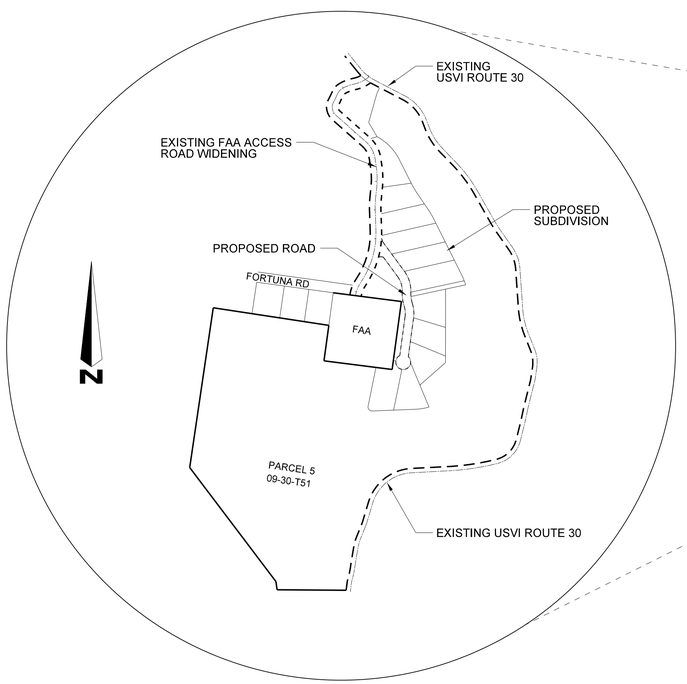
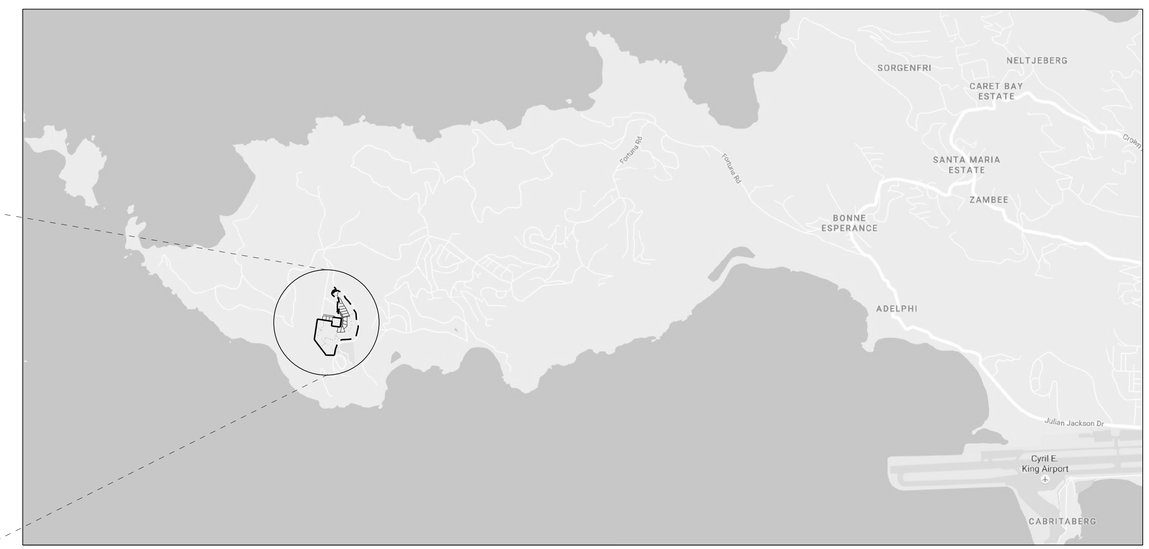


LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

COVER SHEET

Job #: VIHFA Date: Oct. 16, 2018 Sheet: 1 of 18

ENGINEER OF RECORD

PROFESSIONAL ENGINEER
PATRICK WILLIAMS
636-E
U.S. VIRGIN ISLANDS

Patrick Williams, P.E. No. 636-E Dated

SURVEYOR OF RECORD

PROFESSIONAL LAND SURVEYOR
DAVID J. McCOY
1168 - LS
U.S. VIRGIN ISLANDS

David J. McCoy No. 1168-LS Dated

AMOS
ADVANCED METHODS OF SURVEYING, LLC

ADVANCED METHODS OF SURVEYING, LLC The Professional Building ◊ 5062 Forts Straede, Suite 2 ◊ St. Thomas, USVI 00802 ◊ (340) 693-0034

$FILEL$

GENERAL NOTES

1) AMOS LLC SHALL VERIFY RECORDINGS OF PHASE I SUBDIVISION.

2) STORE CUT MATERIAL ON SITE (DO NOT REMOVE MATERIAL OFF SITE) STORE MATRERIAL AT BACK END OF SITE.

3) WAPA TO PROVIDE UNDERGROIND UTILITY WITH PAD MOUNT TRANSFORMER. LOCATE PADMOUNT TRANSFORMERS BETWEEN PROPERTY LINES.

4) UNDERGROUND CONSTRUCTION / EXCAVATION INVOLVES RISK OF DAMAGE TO EXISTING UNDERGROUND INFRASTRUCTURE IN ADDITION TO THE POSSIBILITY OF ENCOUNTERING UNEXPECTED SUBSOIL CONDITIONS INCLUDING, BUT NOT LIMITED TO, ROCK, CLAY, AQUIFERS, ARCHEOLOGICAL ITEMS, EXISTING OR ABANDONED CONSTRUCTION ELEMENTS AND SINK HOLES. THIS SUBDIVISION PLAN IS BASED ON OBSERVATIONS MADE OF SURFACE CONDITIONS AT THE SITE. NO SUBSURFACE SOIL OR INFORMATION WAS OBTAINED. REASONABLE EFFORT HAS BEEN MADE TO LOCATE OR PREDICT SAID RISK BUT NO WARRANTY IS EXPRESSED OR IMPLIED AS TO WHAT WILL BE DISCOVERED OR ENCOUNTERED DURING CONSTRUCTION. ANY SUCH ADVERSE CONDITIONS WHICH ARISE DURING CONSTRUCTION THAT WILL REQUIRE ADDITIONAL WORK SHALL BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO SAID WORK BEING DONE.

5) CREATE CONCRETE WASHOUT PIT ON SITE. (VIHFA TO PROVIDE LOCATION FOR WASHOUT PIT)

6) PROPOSAL IS AN ESTIMATE ONLY AND IS BASED ON SIMILAR PROJECTS WHERE ADVERSE CONDITIONS WERE NOT ENCOUNTERED.

7) EXTERIOR PROPERTY CORNERS / MONUMENTS SHALL BE MARKED AND SHALL BE MAINTAINED THROUGHOUT THE GRADING OPERATIONS.

8) PIPE CULVERTS SHALL BE REINFORCED CONCRETE PIPE. UNLESS PIPE EQUIVALENT MATERIAL IS APPROVED BY THE ENGINEER OF RECORD.

9) GEOTECHNICAL FABRIC, EXCAVATION AND PLACEMENT SHALL BE INCLUDED INTO THE COST OF RIP RAP PER SQUARE YARD QUANTITY. RIP RAP SHALL BE 6" MINIMUM TO 8" MAXIMUM IN SIZE.

10) CONTRACTOR SHALL PREVENT THE STORM WATER RUNOFF AND SEDIMENTATION FROM AFFECTING ANY DOWN STREAM DRAINAGE STRUCTURES AND ROADWAYS FROM THIS PROJECT SITE DURING ALL PHASES OF CONSTRUCTION OPERATIONS.

11) TERRITORY OF THE U.S. VIRGIN ISLANDS: THIS PLAT IS HEREBY ADOPTED BY THE VIRGIN ISLANDS HOUSING FINANCE AUTHORITY (VIHFA) AND APPROVED BY THE GOVERNMENT OF THE VIRGIN ISLANDS IS SUBJECT TO THE FOLLOWING CONDITIONS WHICH SHALL BE BINDING UPON THE VIHFA, THEIR HEIRS, GRANTEES AND SUCCESSORS: THE PORTIONS KNOWN AS AND SHOWN AS OUTLOTS ARE OUTLOT DR1, OUTLOT A AND OUTLOT B.

12) THE GOVERNMENT OF THE VIRGIN ISLANDS WILL BE RESPONSIBLE FOR THE MAINTENANCE AND OPERATION OF SAID OUTLOTS BUT WILL NOT BE RESPONSIBLE FOR ANY DAMAGE TO PRIVATE PROPERTY OR PERSON THAT RESULTS FROM CONDITIONS IN THE OUTLOTS, OR FOR THE CONTROL OF EROSION. NO OBSTRUCTION TO THE NATURAL FLOW OF STORM WATER RUNOFF SHALL BE PERMITTED BY CONSTRUCTION OF ANY TYPE OF BUILDING, FENCE, OR ANY OTHER STRUCTURE WITHIN AN OUTLOT AS HEREIN ABOVE DEFINED, UNLESS APPROVED BY THE GOVERNMENT OF THE VIRGIN ISLANDS. PROVIDED, HOWEVER, IT IS UNDERSTOOD THAT IN THE EVENT IT BECOMES NECESSARY FOR THE GOVERNMENT OF THE VIRGIN ISLANDS TO ERECT OR CONSIDER ERECTING ANY TYPE OF DRAINAGE STRUCTURE IN ORDER TO IMPROVE THE STORM DRAINAGE THAT MAY BE OCCASIONED ON SAID OUTLOT, THE GOVERNMENT OF THE VIRGIN ISLANDS SHALL HAVE THE RIGHT TO ENTER UPON AN OUTLOT AT ANY POINT, OR POINTS, TO INVESTIGATE, SURVEY OR TO ERECT, CONSTRUCT AND MAINTAIN ANY DRAINAGE FACILITY DEEMED NECESSARY FOR DRAINAGE PURPOSES.

13) EACH ADJACENT PROPERTY OWNER SHALL TO AN OUTLOT SHALL KEEP THE OUTLOTS CLEAN AND FREE OF DEBRIS, SILT, AND ANY SUBSTANCE WHICH WOULD RESULT IN UNSANITARY CONDITIONS OR OBSTRUCT THE FLOW OF WATER, AND THE GOVERNMENT OF THE VIRGIN ISLANDS SHALL HAVE THE RIGHT OF INGRESS AND EGRESS FOR THE PURPOSE OF INSPECTION AND SUPERVISION OF MAINTENANCE WORK BY THE PROPERTY OWNER TO ALLEVIATE ANY UNDESIRABLE CONDITIONS WHICH MAY OCCUR.

14) THE NATURAL DRAINAGE THROUGH THE OUTLOTS USED FOR DRAINAGE FLOWS IS SUBJECT TO STORM WATER OVERFLOW AND NATURAL BANK EROSION TO AN EXTENT WHICH CANNOT BE DEFINITELY DEFINED. THE GOVERNMENT OF THE VIRGIN ISLANDS, SHALL NOT BE HELD LIABLE FOR ANY DAMAGES OF ANY NATURE RESULTING FROM THE OCCURRENCE OF THESE NATURAL PHENOMENA, OR RESULTING FROM THE FAILURE OF ANY STRUCTURE, OR STRUCTURES, WITHIN THE OUTLOTS.

15) STORM WATER PONDS ARE DESIGNED TO ACCEPT THE TYPICAL RAINFALL THAT THE VIRGIN ISLANDS EXPERIENCES. THE POND SIZES WILL NOT CONTROL OR REDIRECT THE FLOW OF STORM WATER FOR ANY SIGNIFICANT TIME DURING A 25 YEAR OR 100 YEAR RAINFALL EVENT.

16) THIS SUBDIVISION PLAN DOES NOT PRESENT ANY INFORMATION THAT CAN BE CONSTRUED FOR THE PERCOLATION RATES OF THE PROPOSED SUBDIVISION.

17) NO UNDERLYING ROCK FORMATION WAS STUDIED IN DETAIL AS PART OF THIS WORK. HENCE, ALL DESIGN SHOWN ASSUMES THAT THE OWNER(S)/DEVELOPER(S) WILL PERFORM AN IN DEPTH STUDY OF THE SUBSURFACE CONDITIONS BEFORE EXECUTING CONSTRUCTION OR WILL BEAR ALL COST THAT MAY INCUR IN EXECUTING THE DESIGN.

18) THE DESIGN OF THE DRAINAGE SYSTEM IS BASED ON ENVIRONMENTAL STUDIES OUTLINED IN THE VIRGIN ISLANDS ENVIRONMENTAL PROTECTION HANDBOOK, 2002.

19) THE PLANS CONSIDERED FUTURE PHASES. HOWEVER, VIHFA MAY CHANGE DESIGN BASED ON FUTURE NEEDS

20) THE DESIGN VALUES USED ARE 8.1 INCHES RAIN FOR 25 YEARS AND 10.5 INCHES RAIN IN 100 YEAR STORM EVENT.

21) IT IS ASSUMED THAT THE HOMES BEING CONSTRUCTED WILL COMPLY WITH THE VIRGIN ISLANDS ZONING LAWS OF 1972, WHICH SETS R-2 ZONING REQUIREMENTS WITH A 30% HOUSE TO LOT RATIO. THIS 30% WAS SUBTRACTED FROM THE TOTAL STORM WATER RUNOFF CALCULATIONS. THIS 30% STORM WATER RUNOFF WILL BE CAPTURED INTO CISTERN STORAGE.

22) NO UNDERGROUND WORK IS SANCTIONED. BEFORE YOU DIG, CALL WAPA 340-776-6446 AND INNOVATIVE 340-779-9999.

23) USE EXISTING STONES FOR GUTTER / CHANNEL WHEN APPROPRIATE AND APPROVED BY THE ENGINEER OF RECORD.

24) SOIL MAPS AND DATA ARE BASED ON THE U.S.D.A. AND VIRGIN ISLANDS LIEUTENANT GOVERNORS OFFICE GIS MAPPING SYSTEM.

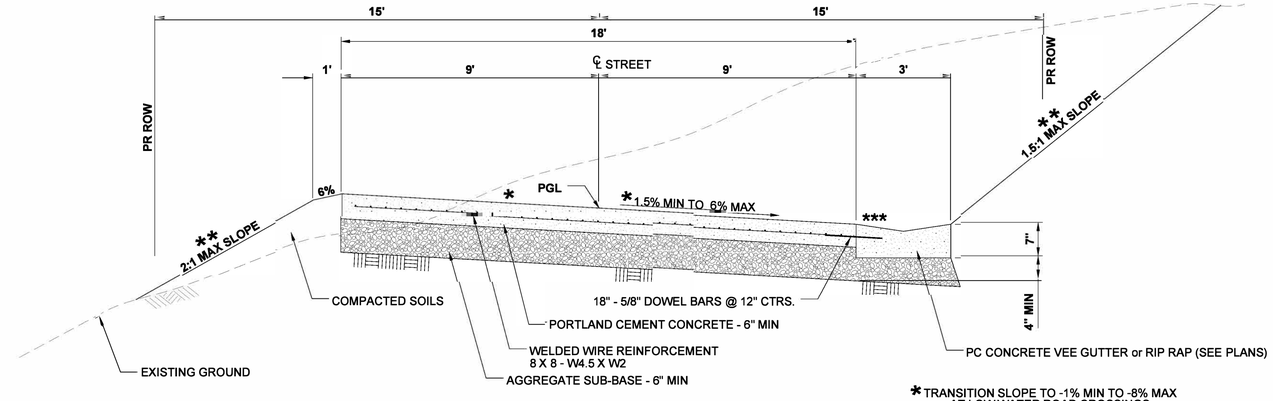
25) DETENTION PONDS PROPOSED ARE NOT DESIGNED FOR 25 YEAR OR A 100 YEAR STORM EVENT. THE DETENTION PONDS PROPOSED ARE FOR TYPICAL RAIN EVENTS TO AID IN REDUCING THE VELOCITY OF STORM WATER. THE LARGER THE POND CONSTRUCTED, THE LESSER THE IMPACT OF STORM WATER.

26) NO FUTURE DEVELOPMENT OF THE DOWN STREAM PROPERTIES WAS ANALYZED AS PART OF THIS DESIGN.

ABBREVIATIONS

Max = Maximum
Min= Minimum
EX= Existing
CL= Centerline
CU YD= Cubic Yard
SY YD= Square Yard
RD= Road
P.S.I. = Pounds Per Square Inch
USDA= United States Department of Agriculture
CTS= Centers
CTRS= Centers
CT= Court
DR= Drive
WAPA =Water and Power Authority
R= Radius
GIS= Global Information System
TYP= Typical
L= Length
CB= Catch Basin
w/= With
SQ FT= Square Foot
EL= Elevation
ROW= Right of Way
POT= Point of Tangency
FAA= Federal Aviation Administration
PC= Point of Curve
PCC = Point of Compound Curve
EOP= Edge of Pavement

SHT= Sheet
FL= Flowline
PI= Point of Intersection
T= Tangent
STA= Station
RCP= Reinforced Concrete Pipe
DSFL= Downstream Flowline
USFL= Upstream Flowline
W= Width
RT= Right
LT= Left
DIA= Diameter
EXFL= Existing Flowline
LBS=Pounds
PROP= Proposed
HDWL= Headwall
N= North
E= East
W= West
S= South
SW= Southwest
NE= Northeast
NW= Northwest
SE=Southeast
CONC=Concrete
EA= Each
PR= Proposed
O.D. = Outside Diameter
OC= On Center
OHU= Overhead Utilities



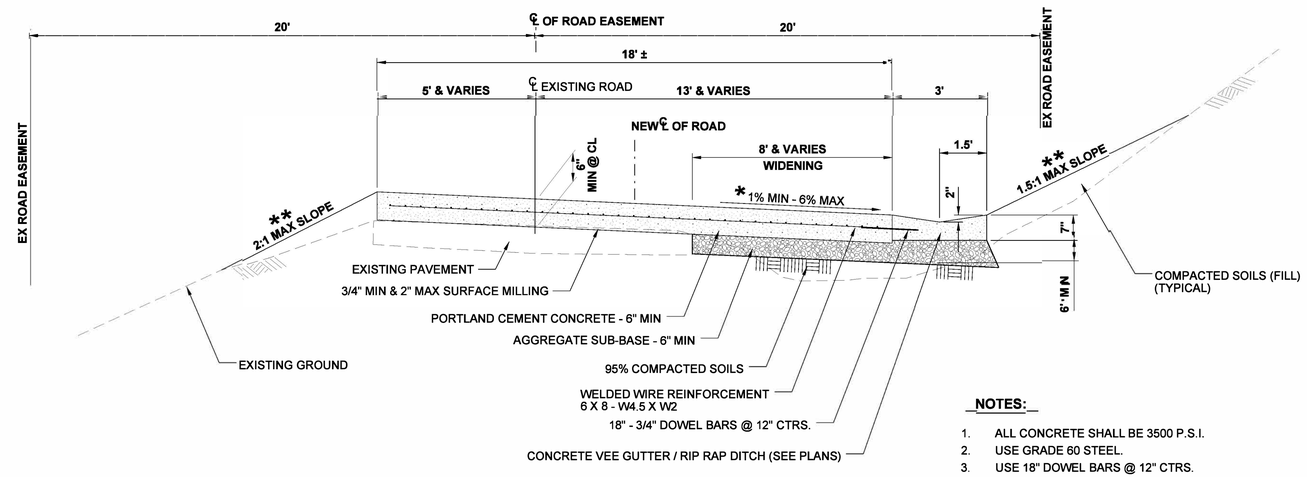
TYPICAL SECTION - SUBDIVISION STREETS

NOT TO SCALE

* TRANSITION SLOPE TO -1% MIN TO -8% MAX AT LOW WATER ROAD CROSSINGS

** SEE SHEET 9 FOR SLOPE PROTECTION AND EROSION CONTROL MEASURES

*** SEE SHEET 10 FOR JOINT SEALING DETAILS FOR ROAD AND V GUTTER JOINT



TYPICAL SECTION - FAA ACCESS ROAD WIDENING

NOT TO SCALE

NOTES:

1. ALL CONCRETE SHALL BE 3500 P.S.I.
2. USE GRADE 60 STEEL.
3. USE 18" DOWEL BARS @ 12" CTRS. (SEE ABOVE SECTIONS FOR SIZE)
4. DESIGN ASSUMPTIONS ARE:
   A. EFFECTIVE SUBGRADE MODULUS, K=356
   B. MODULUS OF ELASTICITY E = 3.6 X 10 P.S.I.
   C. EQUIVALENT SINGLE AXLE LOADING, ESAL = 115000
   D. POPULATION GROWTH IS CONSIDERING TO BE 1% OVER 20 YEARS.

AN ESTIMATED DEPTH VARYING FROM 0 INCHES TO APPROXIMATELY 12 INCHES TOPSOIL IS CONSIDERED TO BE ORGANIC MATERIALS. THIS MATERIAL SHALL NOT TO BE USED AS EMBANKMENT MATERIAL FOR ROADWAY CONSTRUCTION. THIS MATERIAL IS INCLUDED IN THE OVERALL EXCAVATION QUANTITIES. THIS MATERIAL IS TO BE STOCKPILED ON SITE TO BE USED FOR SEEDING DISTURBED AREAS AS DEEMED NECESSARY BY THE RESIDENT ENGINEER.

EMBANKMENT (NO SHRINKAGE FACTOR APPLIED)

CUT CY	FILL CY	ALIGN	6" ORGANIC REMOVAL
857	70	PINEAPPLE CT	246
333	146	FAA ACCESS RD	0
1190	**216**	**TOTALS**	**246**

SUMMARY OF QUANTITIES

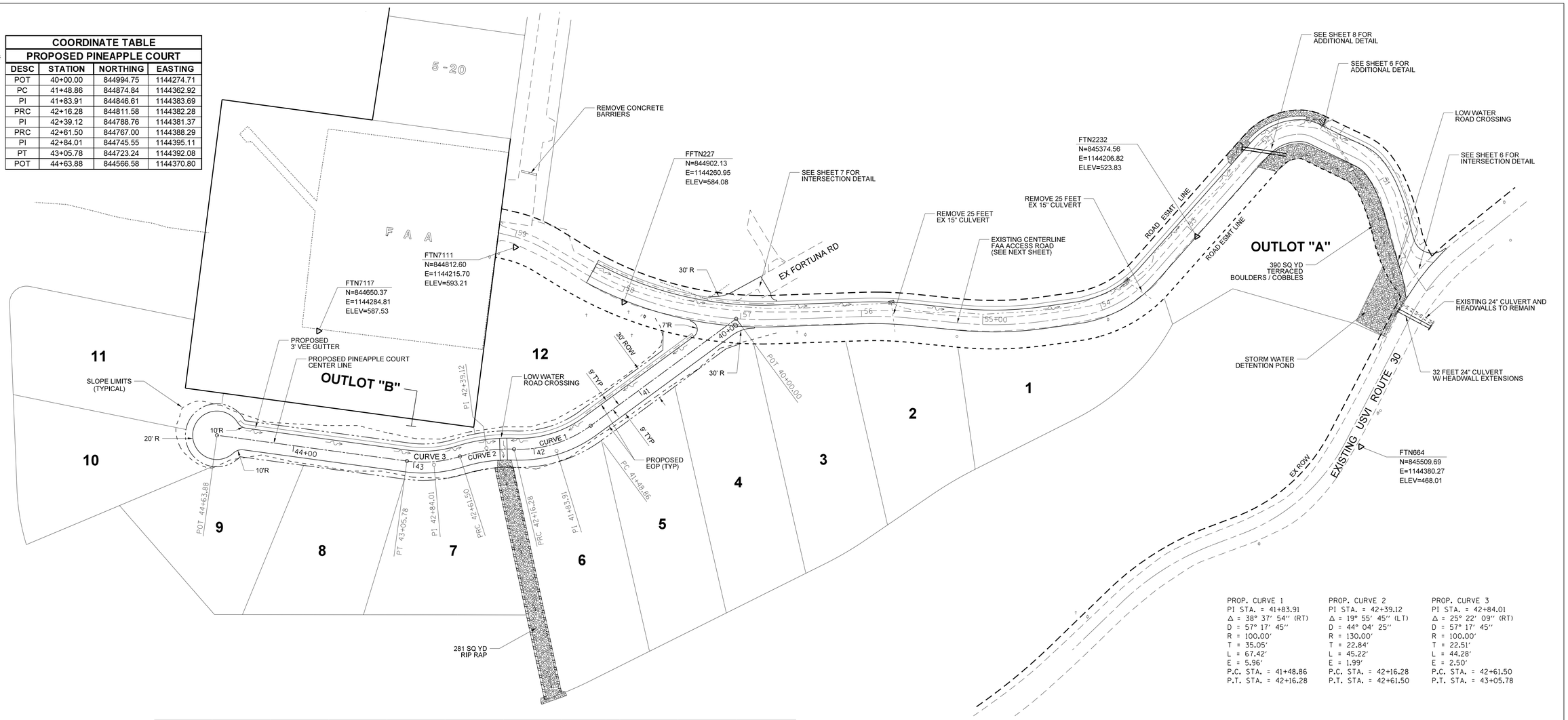
PAY ITEM DESCRIPTION	UNIT	QUANTITY
REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT - 6"	CU YD	494
AGGREGATE SUB-BASE	CU YD	314
EMBANKMENT - CUT (NO SHRINKAGE FACTOR APPLIED)	CU YD	1190
EMBANKMENT - FILL (NO SHRINKAGE FACTOR APPLIED)	CU YD	216
DETENTION POND EXCAVATION	CU YD	473
PIPE CULVERT - 24" WITH HEADWALL UPSTREAM	LIN FEET	37
PIPE CULVERT - 24" WITH HEADWALL EXTENSIONS	LIN FEET	32
PIPE EXENTENSION - 18"	LIN FEET	6
CONCRETE VEE GUTTER - 3' WIDE	LIN FEET	1146
RIP RAP 6" - 8"	SY YD	346
OUTLOT WITH TERRACED BOULDER / COBBLES	SY YD	388
PIPE CULVERT REMOVAL	LIN FEET	50
SEEDING	ACRES	0.15
LOW WATER ROAD CROSSINGS	EACH	2

GENERAL NOTES, SUMMARY OF QUANTITIES AND TYPICAL SECTIONS

Job #: VIHFA Date: Oct. 16, 2018 Sheet: 2 of 18

AMOS
ADVANCED METHODS OF SURVEYING, LLC

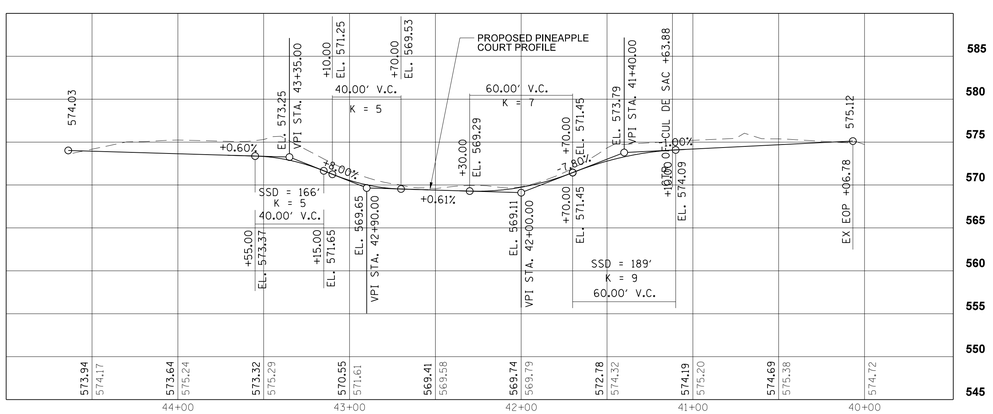
COORDINATE TABLE			
PROPOSED PINEAPPLE COURT			
DESC	STATION	NORTHING	EASTING
POT	40+00.00	844994.75	1144274.71
PC	41+48.86	844874.84	1144362.92
PI	41+83.91	844846.61	1144383.69
PRC	42+16.28	844811.58	1144382.28
PI	42+39.12	844788.76	1144381.37
PRC	42+61.50	844767.00	1144388.29
PI	42+84.01	844745.55	1144395.11
PT	43+05.78	844723.24	1144392.08
POT	44+63.88	844566.58	1144370.80



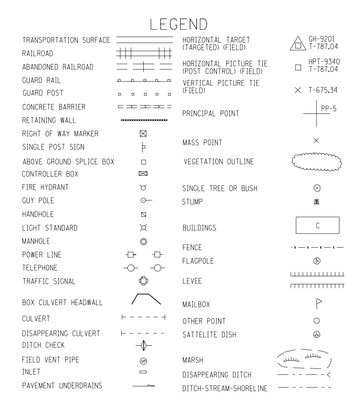
PROP. CURVE 1
PI STA. = 41+83.91
Δ = 38° 37' 54'' (RT)
D = 57° 17' 45''
R = 100.00'
T = 35.05'
L = 67.42'
E = 5.96'
P.C. STA. = 41+48.86
P.T. STA. = 42+16.28

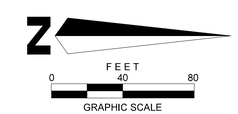
PROP. CURVE 2
PI STA. = 42+39.12
Δ = 19° 55' 45'' (LT)
D = 44° 04' 25''
R = 130.00'
T = 22.84'
L = 45.22'
E = 1.99'
P.C. STA. = 42+16.28
P.T. STA. = 42+61.50

PROP. CURVE 3
PI STA. = 42+84.01
Δ = 25° 22' 09'' (RT)
D = 57° 17' 45''
R = 100.00'
T = 22.51'
L = 44.28'
E = 2.50'
P.C. STA. = 42+61.50
P.T. STA. = 43+05.78



PINEAPPLE COURT PROFILE





ROADWAY PLAN & PROFILE

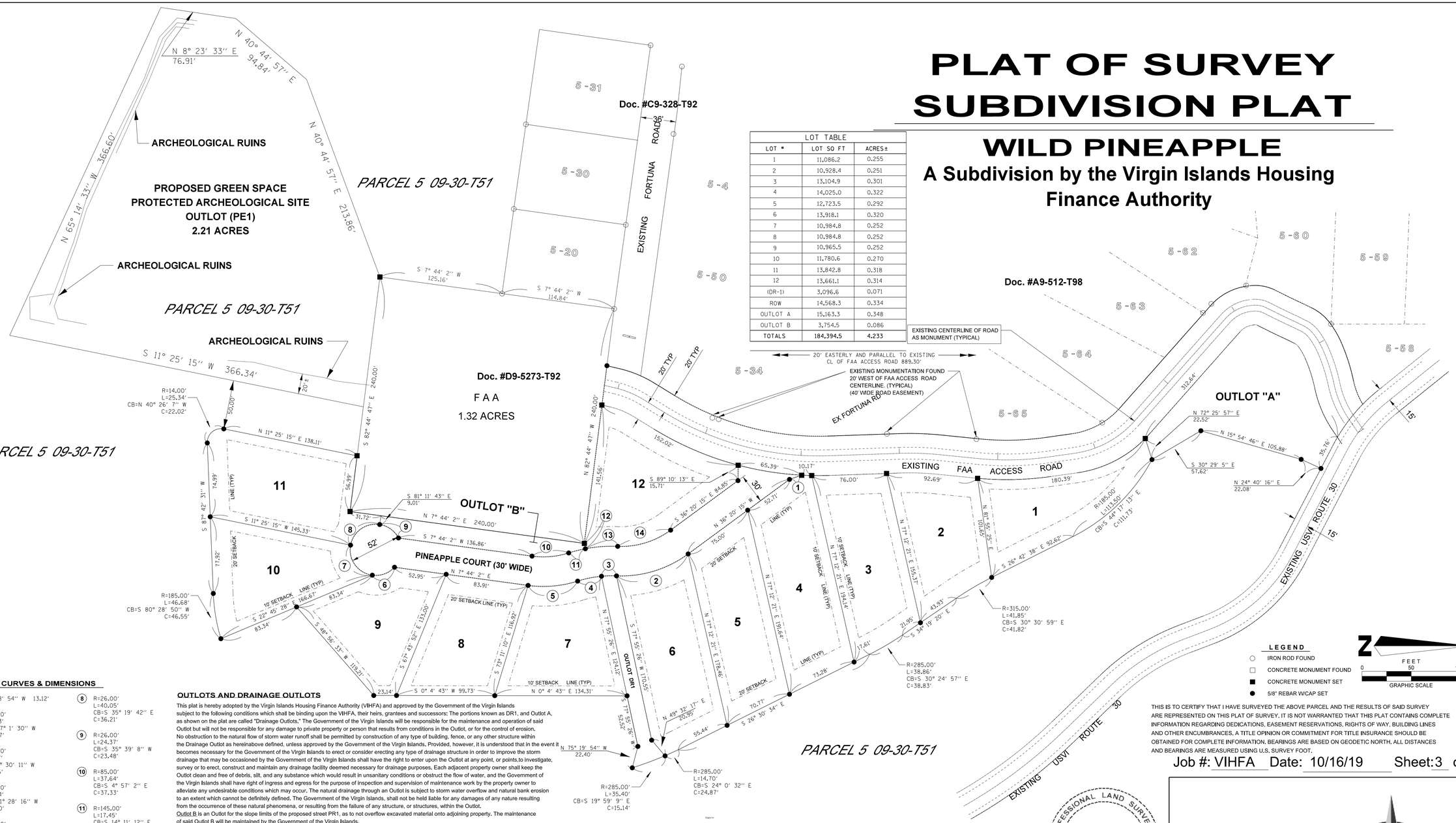
Job #: VIHFA Date: Oct. 16, 2018 Sheet: 4 of 18

ADVANCED METHODS OF SURVEYING, LLC

PLAT OF SURVEY
SUBDIVISION PLAT

WILD PINEAPPLE

A Subdivision by the Virgin Islands Housing Finance Authority



LOT TABLE		
LOT #	LOT SQ FT	ACRES±
1	11,086.2	0.255
2	10,928.4	0.251
3	13,104.9	0.301
4	14,025.0	0.322
5	12,723.5	0.292
6	13,918.1	0.320
7	10,984.8	0.252
8	10,984.8	0.252
9	10,965.5	0.252
10	11,780.6	0.270
11	13,842.8	0.318
12	13,661.1	0.314
(DR-1)	3,096.6	0.071
ROW	14,568.3	0.334
OUTLOT A	15,163.3	0.348
OUTLOT B	3,754.5	0.086
TOTALS	184,394.5	4.233

CURVES & DIMENSIONS

1. N 19° 8′ 54″ W 13.12′
2. R=115.00′ L=77.53′ CB=N 17° 1′ 30″ W C=76.07′
3. R=115.00′ L=15.27′ CB=N 1° 30′ 11″ W C=15.26′
4. R=115.00′ L=24.74′ CB=N 11° 28′ 16″ W C=24.70′
5. R=115.00′ L=50.92′ CB=N 4° 57′ 2″ W C=50.50′
6. R=26.00′ L=24.85′ CB=N 19° 38′ 44″ W C=23.92′
7. R=26.00′ L=42.11′ CB=N 54° 8′ 23″ E C=37.66′
8. R=26.00′ L=40.05′ CB=S 35° 19′ 42″ E C=36.21′
9. R=26.00′ L=24.37′ CB=S 35° 39′ 8″ W C=23.48′
10. R=85.00′ L=37.64′ CB=S 4° 57′ 2″ E C=37.33′
11. R=145.00′ L=17.45′ CB=S 14° 11′ 12″ E C=17.44′
12. S 79° 15′ 42″ W 5.58′
13. R=145.00′ L=32.98′ CB=S 4° 13′ 20″ E C=32.91′
14. R=85.00′ L=57.31′ CB=S 17° 1′ 18″ E C=56.23′

OUTLOTS AND DRAINAGE OUTLOTS

This plat is hereby adopted by the Virgin Islands Housing Finance Authority (VIHFA) and approved by the Government of the Virgin Islands subject to the following conditions which shall be binding upon the VIHFA, their heirs, grantees and successors: The portions known as DR1, and Outlot A, as shown on the plat are called "Drainage Outlots." The Government of the Virgin Islands will be responsible for the maintenance and operation of said Outlot but will not be responsible for any damage to private property or person that results from conditions in the Outlot, or for the control of erosion. No obstruction to the natural flow of storm water runoff shall be permitted by construction of any type of building, fence, or any other structure within the Drainage Outlot as hereinabove defined, unless approved by the Government of the Virgin Islands. Provided, however, it is understood that in the event it becomes necessary for the Government of the Virgin Islands to erect or consider erecting any type of drainage structure in order to improve the storm drainage that may be occasioned by the Government of the Virgin Islands shall have the right to enter upon the Outlot at any point, or points, to investigate, survey or to erect, construct and maintain any drainage facility deemed necessary for drainage purposes. Each adjacent property owner shall keep the Outlot clean and free of debris, silt, and any substance which would result in unsanitary conditions or obstruct the flow of water, and the Government of the Virgin Islands shall have right of ingress and egress for the purpose of inspection and supervision of maintenance work by the property owner to alleviate any undesirable conditions which may occur. The natural drainage through an Outlot is subject to storm water overflow and natural bank erosion to an extent which cannot be definitely defined. The Government of the Virgin Islands, shall not be held liable for any damages of any nature resulting from the occurrence of these natural phenomena, or resulting from the failure of any structure, or structures, within the Outlot.
Outlot B is an Outlot for the slope limits of the proposed street PR1, as to not overflow excavated material onto adjoining property. The maintenance of said Outlot B will be maintained by the Government of the Virgin Islands.

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS THAT: The Virgin Islands Housing Finance Authority acting herein by and through its duly authorized officers, does hereby adopt this plat designating the hereinabove described property as Wild Pineapple, an addition to Estate Fortuna No. 8 West End Quarter, St. Thomas, U.S. Virgin Islands, and does hereby dedicate, in fee simple, to the public use forever, the streets shown thereon. The streets are dedicated for street purposes. The Outlots and public use areas, as shown, are dedicated for the public use forever, for the purposes indicated on this plat. No buildings, fences, trees, shrubs, or other improvements or growths shall be constructed or placed upon, over, or across the easements or Outlots as shown. In addition, utility easements may also be used for the mutual use and accommodation of all public utilities desiring to use or using the same unless the easement limits the use to particular utilities, said use by public utilities being subordinate to the public's and Government of the Virgin Islands use thereof. The Government of the Virgin Islands and public utility entities shall have the right to remove and keep removed all or parts of any buildings, fences, trees, shrubs, or other improvements or growths which may in any way endanger or interfere with the construction, maintenance, or efficiency of their respective systems in said easements. The Government of the Virgin Islands and public utility entities shall at all times have the full right of ingress and egress to or from their respective easements for the purpose of constructing, reconstructing, inspecting, patrolling, maintaining, reading meters, and adding to or removing all or parts of their respective systems without the necessity at any time of procuring permission from anyone.

THIS IS TO CERTIFY THAT I HAVE SURVEYED THE ABOVE PARCEL AND THE RESULTS OF SAID SURVEY ARE REPRESENTED ON THIS PLAT OF SURVEY, IT IS NOT WARRANTED THAT THIS PLAT CONTAINS COMPLETE INFORMATION REGARDING DEDICATIONS, EASEMENT RESERVATIONS, RIGHTS OF WAY, BUILDING LINES AND OTHER ENCUMBRANCES, A TITLE OPINION OR COMMITMENT FOR TITLE INSURANCE SHOULD BE OBTAINED FOR COMPLETE INFORMATION. BEARINGS ARE BASED ON GEODETIC NORTH. ALL DISTANCES AND BEARINGS ARE MEASURED USING U.S. SURVEY FOOT.

Job #: VIHFA Date: 10/16/19 Sheet:3 of 18

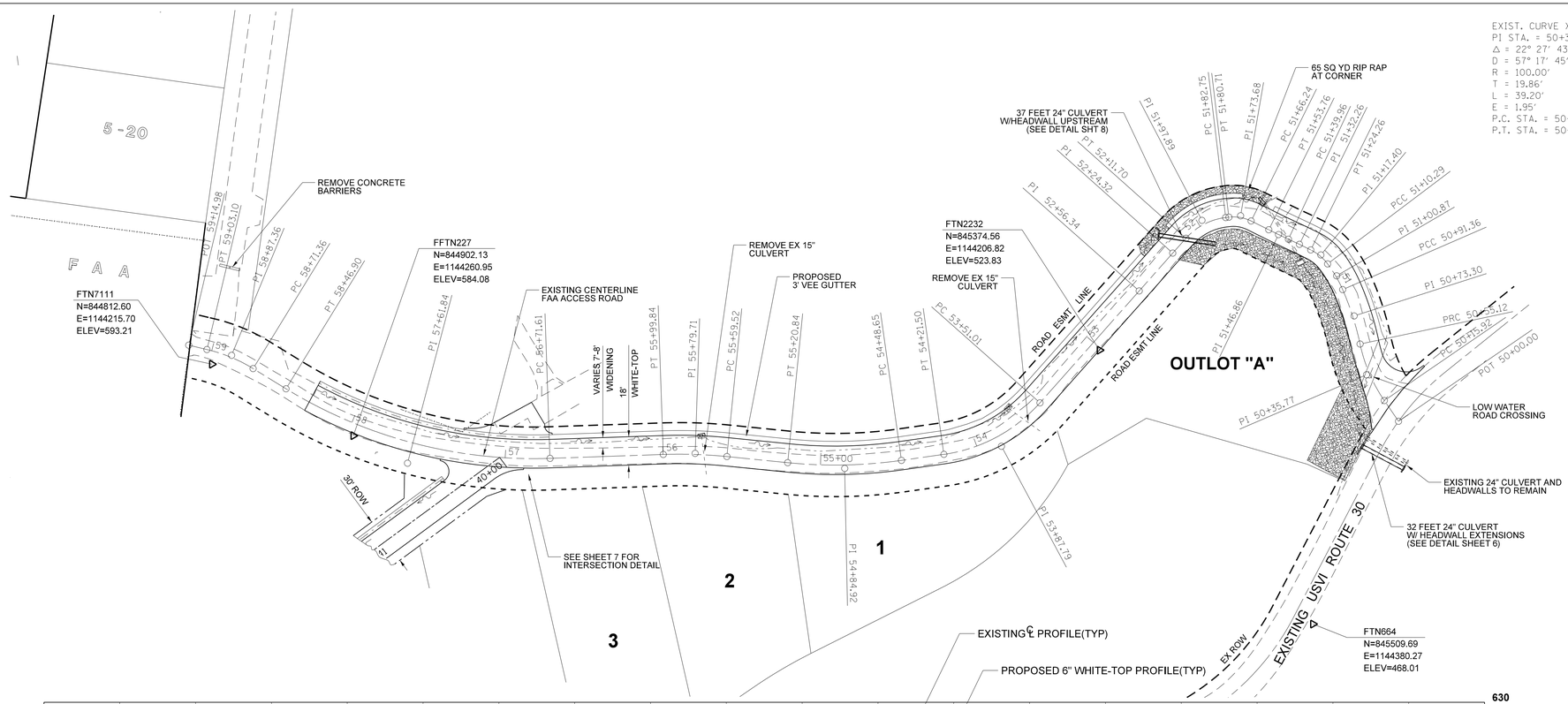
PROFESSIONAL LAND SURVEYOR
DAVID J. McCOY
1168 - LS
U.S. VIRGIN ISLANDS

David J. McCoy No. 1168-LS

10/16/2019
Dated

ADVANCED METHODS OF SURVEYING, LLC

ADVANCED METHODS OF SURVEYING, LLC The Professional Building ◊ 5062 Forts Straede, Suite 2 ◊ St. Thomas, USVI 00802 ◊ (340) 693-0034



EXIST. CURVE XESMTRD-1
PI STA. = 50+35.77
Δ = 22° 27′ 43″ (RT)
D = 57° 17′ 45″
R = 100.00′
T = 19.86′
L = 39.20′
E = 1.95′
P.C. STA. = 50+15.92
P.T. STA. = 50+55.12

EXIST. CURVE XESMTRD-2
PI STA. = 50+73.30
Δ = 11° 32′ 11″ (LT)
D = 31° 49′ 52″
R = 180.00′
T = 18.18′
L = 36.24′
E = 0.92′
P.C. STA. = 50+55.12
P.T. STA. = 50+91.36

EXIST. CURVE XESMTRD-3
PI STA. = 51+00.87
Δ = 13° 33′ 13″ (LT)
D = 71° 37′ 11″
R = 80.00′
T = 9.51′
L = 18.92′
E = 0.56′
P.C. STA. = 50+91.36
P.T. STA. = 51+10.29

EXIST. CURVE XESMTRD-4
PI STA. = 51+17.40
Δ = 26° 41′ 22″ (LT)
D = 190° 59′ 09″
R = 30.00′
T = 7.12′
L = 13.97′
E = 0.83′
P.C. STA. = 51+10.29
P.T. STA. = 51+24.26

EXIST. CURVE XESMTRD-5
PI STA. = 51+46.86
Δ = 1° 19′ 03″ (RT)
D = 9° 32′ 57″
R = 600.00′
T = 6.90′
L = 13.80′
E = 0.04′
P.C. STA. = 51+39.96
P.T. STA. = 51+53.76

EXIST. CURVE XESMTRD-6
PI STA. = 51+73.68
Δ = 33° 09′ 20″ (LT)
D = 229° 10′ 59″
R = 25.00′
T = 7.44′
L = 14.47′
E = 1.08′
P.C. STA. = 51+66.24
P.T. STA. = 51+80.71

EXIST. CURVE XESMTRD-7
PI STA. = 51+97.89
Δ = 41° 27′ 32″ (LT)
D = 143° 14′ 22″
R = 40.00′
T = 15.14′
L = 28.94′
E = 2.77′
P.C. STA. = 51+82.75
P.T. STA. = 52+11.70

EXIST. CURVE XESMTRD-8
PI STA. = 53+87.79
Δ = 40° 23′ 02″ (RT)
D = 57° 17′ 45″
R = 100.00′
T = 36.78′
L = 70.48′
E = 6.55′
P.C. STA. = 53+51.01
P.T. STA. = 54+21.50

EXIST. CURVE XESMTRD-9
PI STA. = 54+84.92
Δ = 13° 47′ 15″ (RT)
D = 19° 05′ 55″
R = 300.00′
T = 36.27′
L = 72.19′
E = 2.18′
P.C. STA. = 54+48.65
P.T. STA. = 55+20.84

EXIST. CURVE XESMTRD-10
PI STA. = 55+79.71
Δ = 7° 42′ 00″ (LT)
D = 19° 05′ 55″
R = 300.00′
T = 20.19′
L = 40.32′
E = 0.68′
P.C. STA. = 55+59.52
P.T. STA. = 55+99.84

EXIST. CURVE XESMTRD-11
PI STA. = 57+61.84
Δ = 33° 28′ 42″ (RT)
D = 19° 05′ 55″
R = 300.00′
T = 90.23′
L = 175.29′
E = 13.27′
P.C. STA. = 56+71.61
P.T. STA. = 58+46.90

EXIST. CURVE XESMTRD-12
PI STA. = 58+87.36
Δ = 18° 11′ 13″ (LT)
D = 57° 17′ 45″
R = 100.00′
T = 16.01′
L = 31.74′
E = 1.27′
P.C. STA. = 58+71.36
P.T. STA. = 59+03.10

FEET
0 40 80
GRAPHIC SCALE

ROADWAY PLAN & PROFILE

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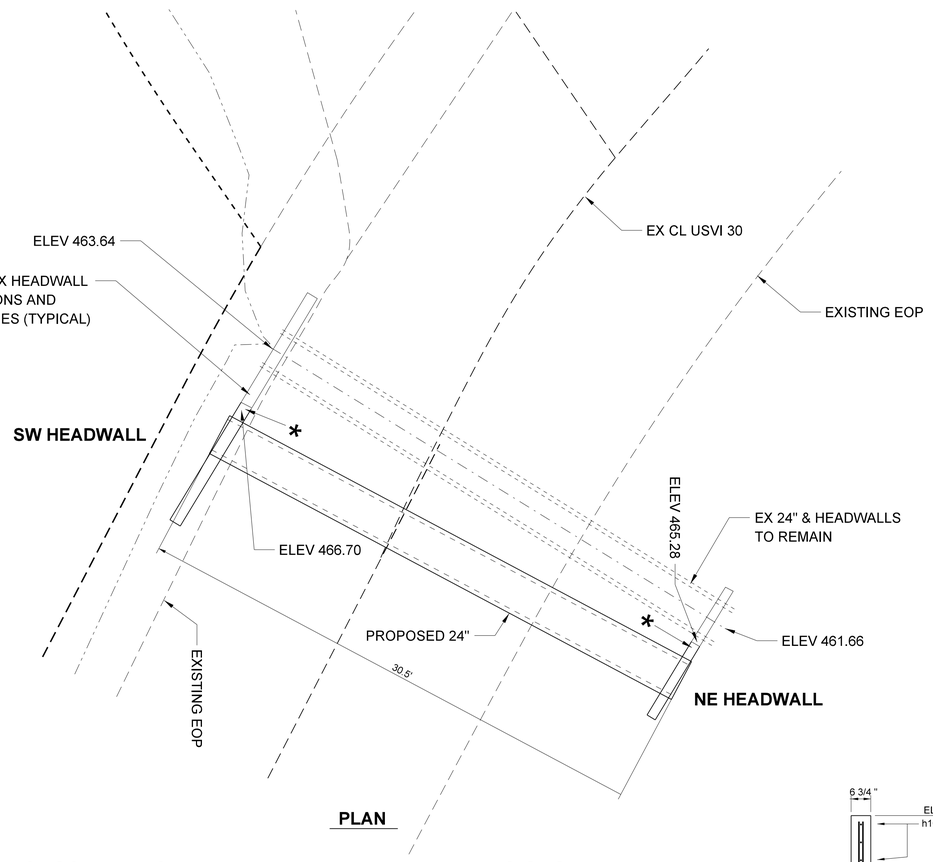
ADVANCED METHODS OF SURVEYING, LLC



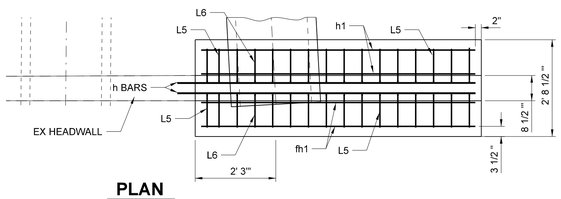
PLAN

PROPOSED 24" CULVERT WITH HEADWALL EXTENSIONS DETAIL

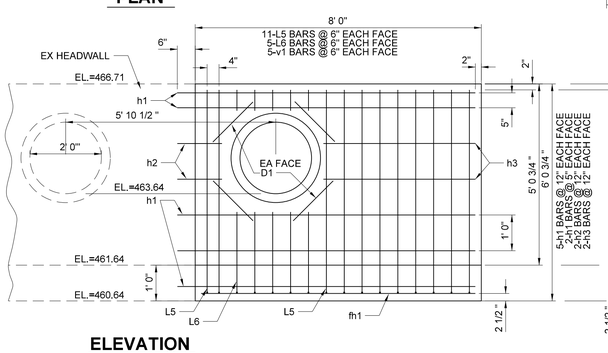
NOT TO SCALE

* EXPOSE EXISTING HEADWALLS & FOOTINGS FOR ADJACENT CAST-IN PLACE EXTENSION OF EXISTING HEADWALLS.

DRILL AND EXPOXY #4 BARS ALONG EXPOSED EDGE OF EXISTING HEADWALLS.

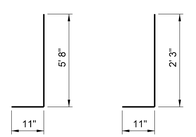


PLAN

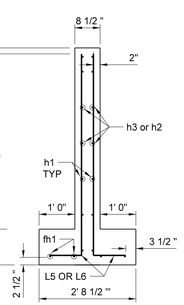


ELEVATION

LOOKING NE



#5 L5 #5 L6



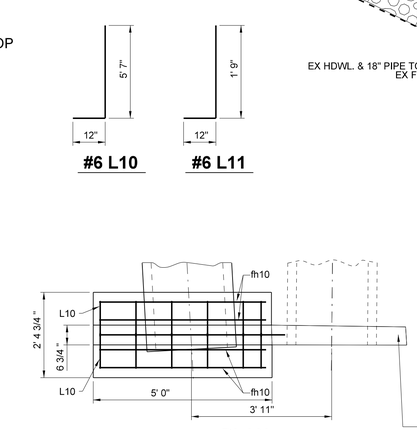
SECTION

SW HEADWALL

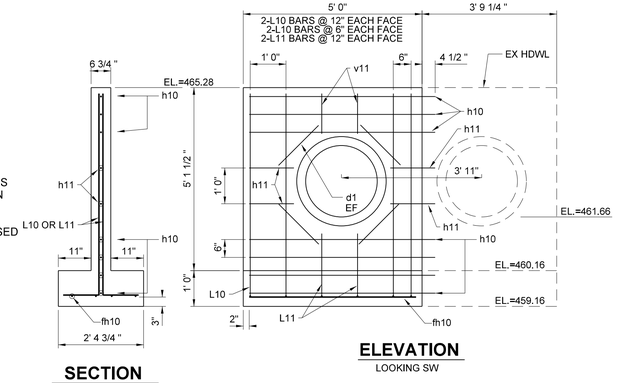
BILL OF MATERIALS

QTY	BAR	SIZE	LENGTH	WEIGHT	SHAPE
10	h1	4	8' 4"	55.67	
4	h2	4	2' 3"	6.01	
4	h3	4	4' 3"	11.36	
4	fh1	5	7' 8"	46.06	
8	D1	4	1' 7"	8.46	
10	v1	5	0' 7"	6.08	
22	L5	5	6' 7"	151.06	
10	L6	5	3' 2"	33.03	

TOTAL REINFORCEMENT 317.73 LBS.
TOTAL CONCRETE 1.80 CU YDS



PLAN



ELEVATION

LOOKING SW

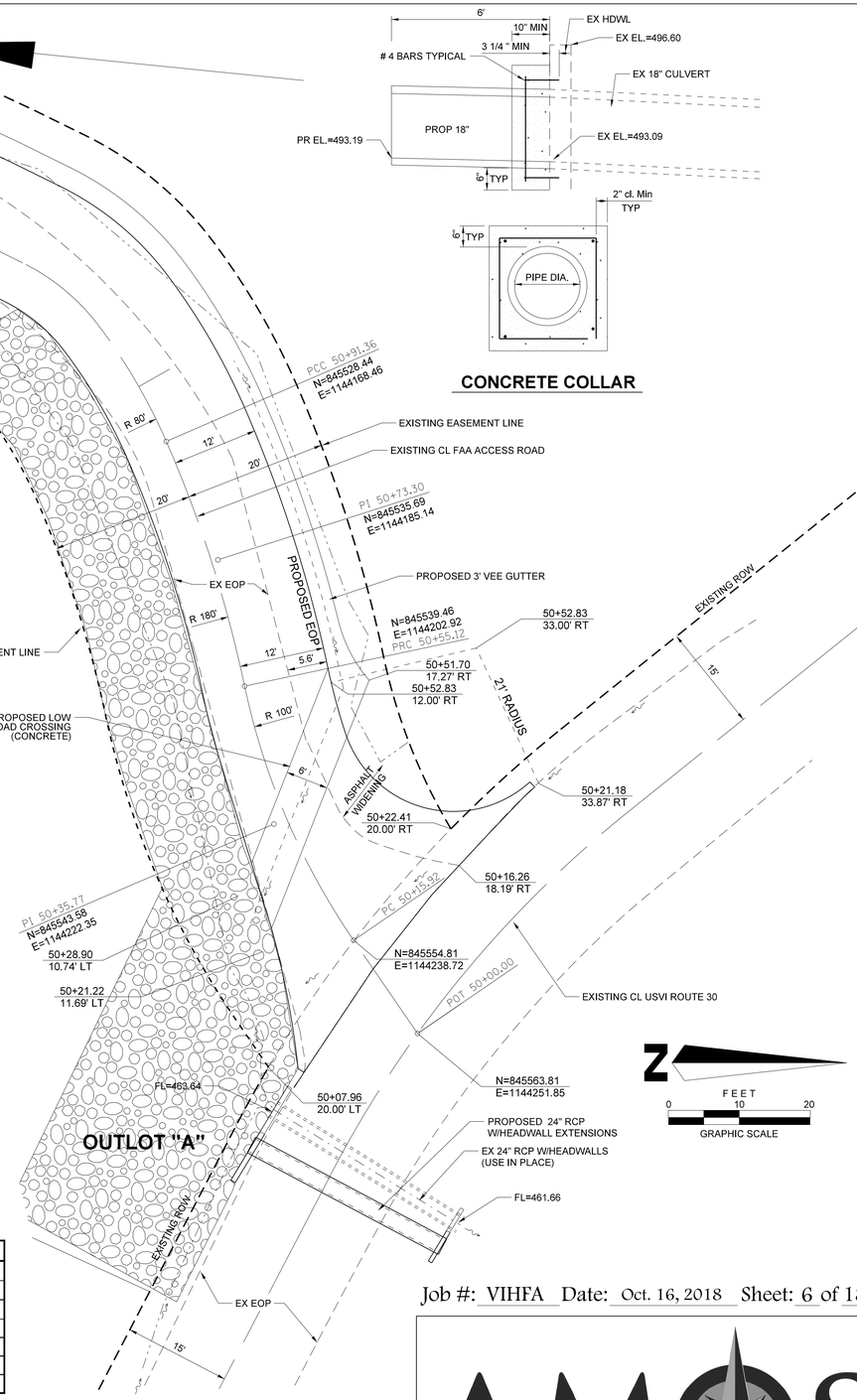
SECTION

NE HEADWALL

BILL OF MATERIALS

QTY	BAR	SIZE	LENGTH	WEIGHT	SHAPE
7	h10	4	5' 3"	24.55	
4	h11	4	1' 3"	3.34	
4	fh10	6	4' 8"	28.04	
8	D1	4	1' 7"	8.46	
4	v11	5	1' 1"	4.52	
8	L10	6	6' 7"	79.10	
4	L11	6	2' 9"	16.52	

TOTAL REINFORCEMENT 164.54 LBS.
TOTAL CONCRETE 0.97 CU YDS

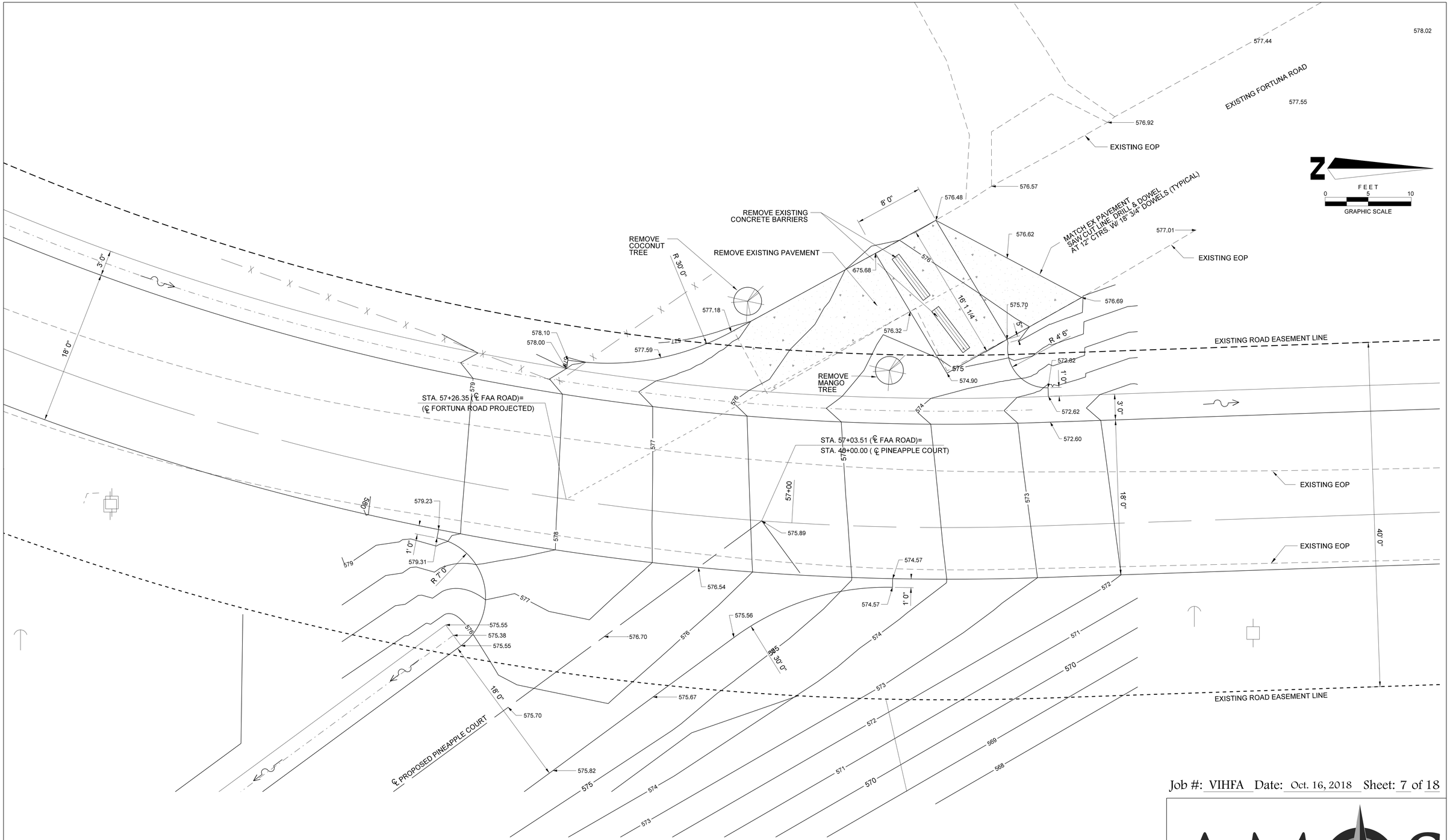


Job #: VIHFA Date: Oct. 16, 2018 Sheet: 6 of 18

NORTH ENTRANCE DETAIL

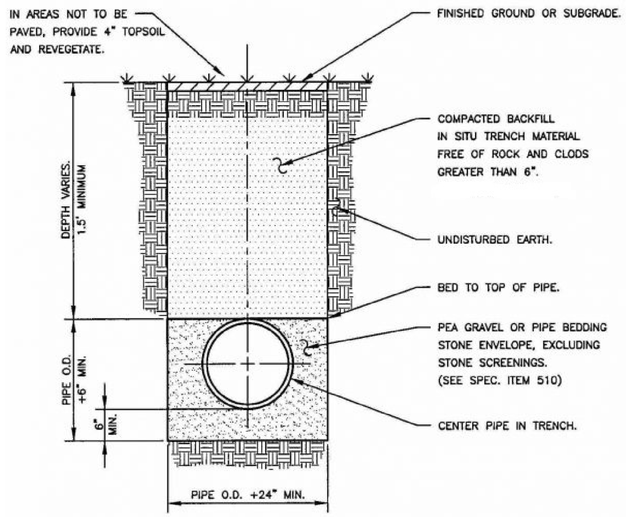
USVI ROUTE 30 & EXISTING FAA ACCESS ROAD

ADVANCED METHODS OF SURVEYING, LLC

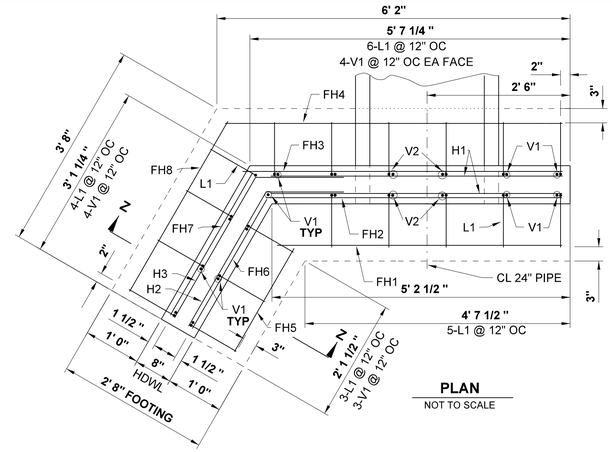


Job #: VIHFA Date: Oct. 16, 2018 Sheet: 7 of 18

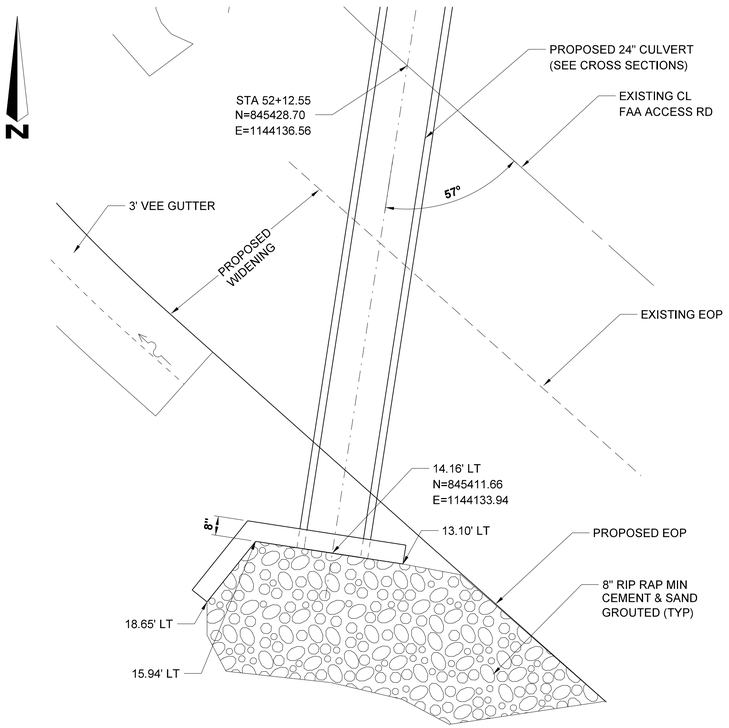
AMOS
ADVANCED METHODS OF SURVEYING, LLC



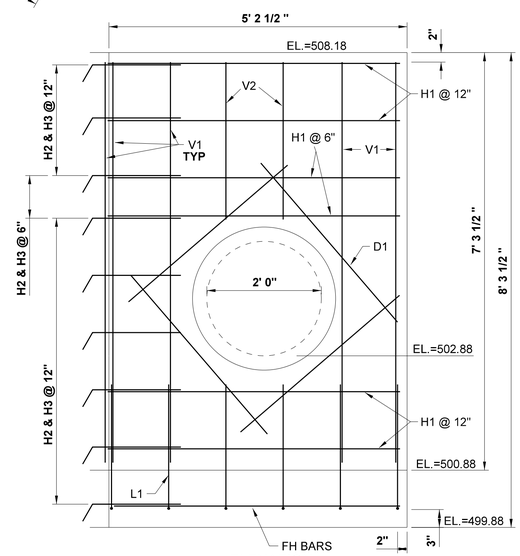
PIPE TRENCH DETAIL
NOT TO SCALE



PLAN
NOT TO SCALE



CULVERT WITH UPSTREAM HEADWALL PLAN CROSSING FAA ACCESS ROAD
NOT TO SCALE - SEE SECTIONS FOR ELEVATIONS

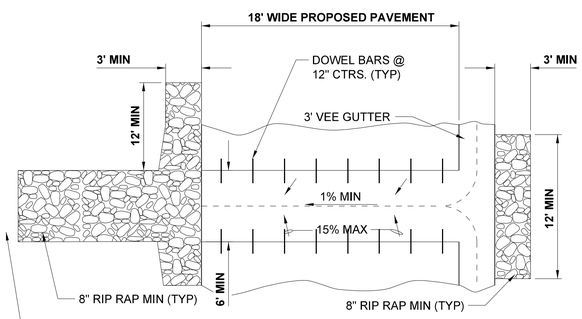


ELEVATION
NOT TO SCALE

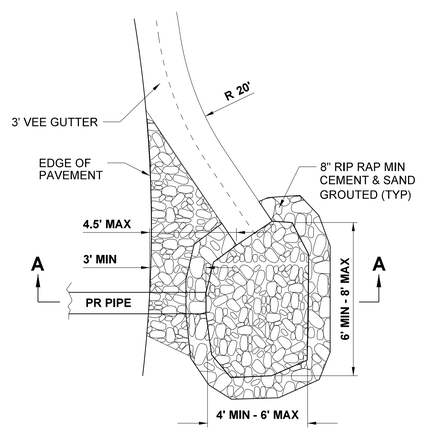
BILL OF MATERIALS

QTY	BAR	SIZE	LENGTH	WEIGHT	SHAPE
12	H1	4	5' 1"	40.75	
9	H2	4	4' 1"	24.55	
9	H3	4	4' 5"	26.55	
1	FH1	6	5' 0"	7.51	
1	FH2	6	5' 2"	7.76	
1	FH3	6	5' 8"	8.51	
1	FH4	6	5' 11"	8.89	
1	FH5	6	2' 7"	3.88	
1	FH6	6	2' 1"	3.13	
1	FH7	6	2' 11"	4.38	
1	FH8	6	3' 6"	5.26	
15	V1	5	7' 0"	109.52	
4	V2	5	3' 0"	12.52	
4	D1	4	3' 8"	9.80	
14	L1	6	3' 1"	64.84	

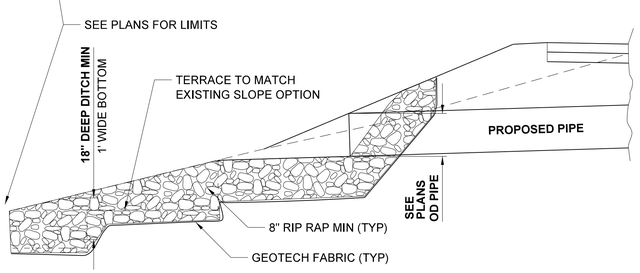
TOTAL REINFORCEMENT 337.83 LBS.
TOTAL CONCRETE 2.11 CU YDS



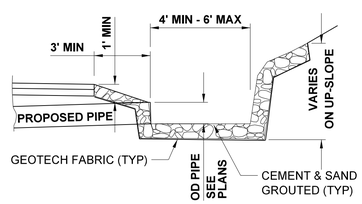
LOW WATER ROAD CROSSING
NOT TO SCALE



INLET PLAN
NOT TO SCALE

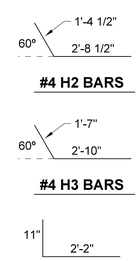


DOWN STREAM SECTION
NOT TO SCALE

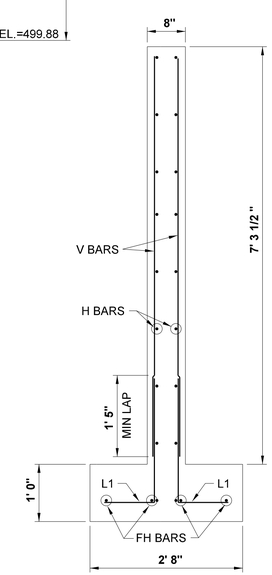


SECTION A-A
NOT TO SCALE

TYPICAL INLET AT PIPE CULVERTS
NOT TO SCALE



HEADWALL CAST-IN-PLACE REINFORCEMENT
NOT TO SCALE



SECTION Z-Z
NOT TO SCALE

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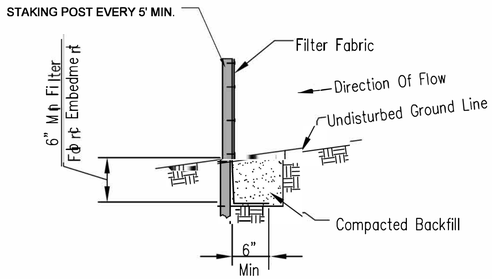
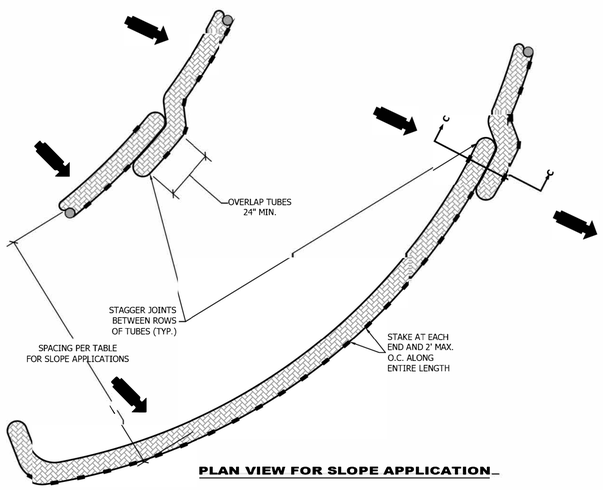
AMOS
ADVANCED METHODS OF SURVEYING, LLC

SFILELS

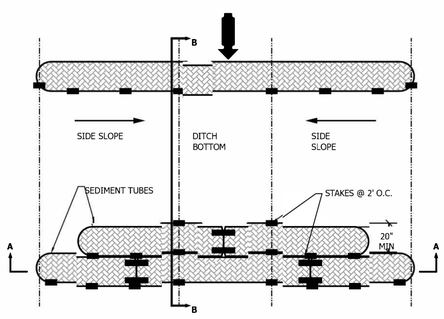


SILT FENCING ANCHOR DETAIL

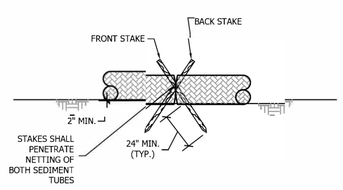
NOT TO SCALE



PLAN VIEW FOR SLOPE APPLICATION

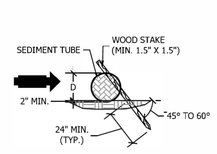


PLAN VIEW FOR DITCH APPLICATION

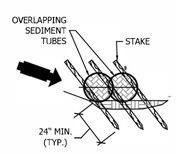


JOINT STAKING DETAIL

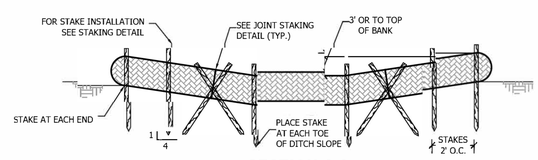
(DITCH APPLICATION ONLY)



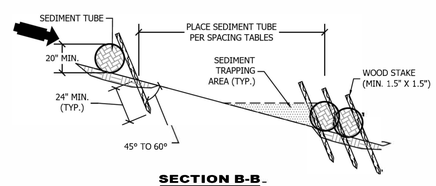
STAKING DETAIL



SECTION C-C



SECTION A-A

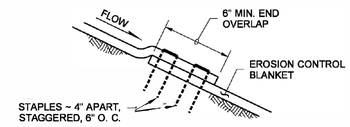


SECTION B-B

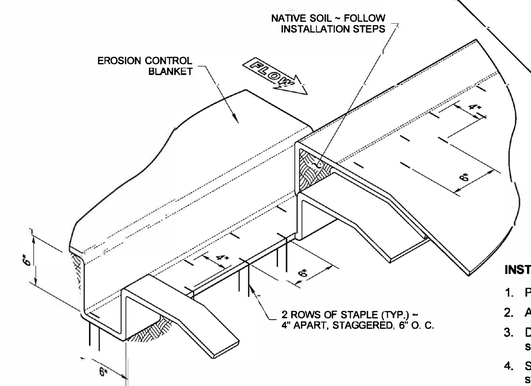
EROSION CONTROL SEDIMENT TUBE DETAIL

NOT TO SCALE

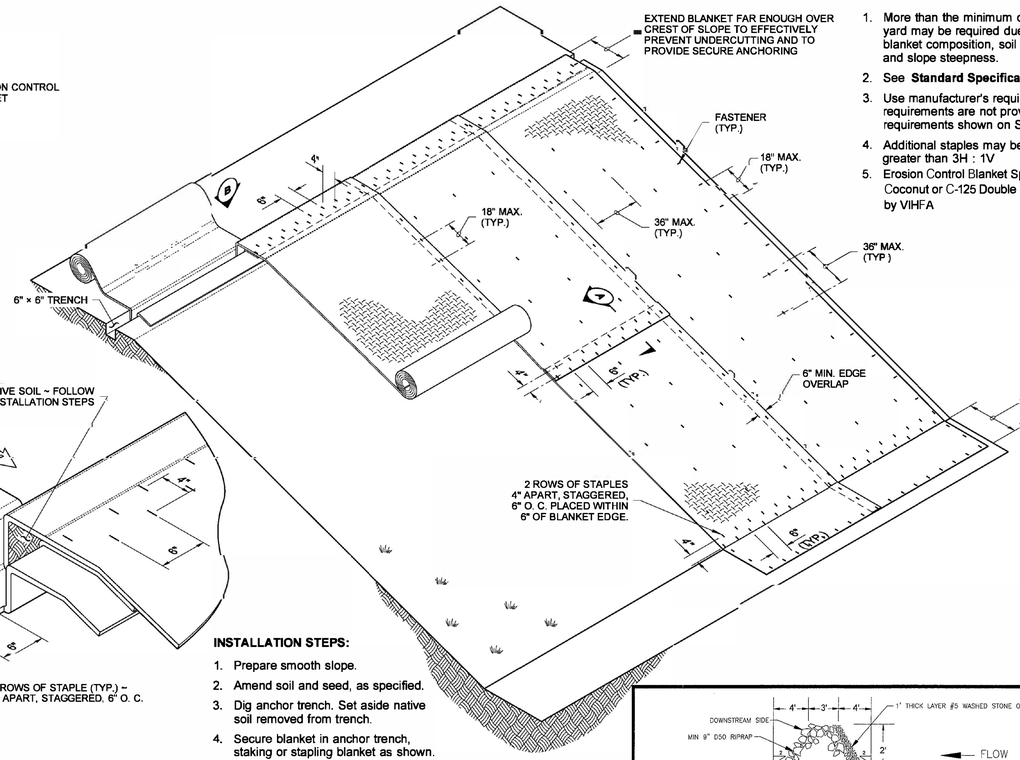
DRAWN BY: LISA CYFORD



SHINGLE SPLICE ~ SECTION (A)



INITIAL ANCHOR ~ DETAIL (B)



ISOMETRIC VIEW

INSTALLATION STEPS:

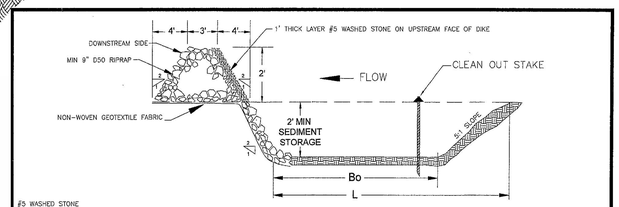
1. Prepare smooth slope.
2. Amend soil and seed, as specified.
3. Dig anchor trench. Set aside native soil removed from trench.
4. Secure blanket in anchor trench, staking or stapling blanket as shown.
5. Replace native soil previously removed from trench.
6. Roll blanket down the slope in a controlled manner, taking care to remove excess slack, and taking care not to stretch blanket.
7. Stake or staple blanket as shown so there are no gaps between the blanket and the soil. Staple while unrolling blanket to minimize walking on blanket.

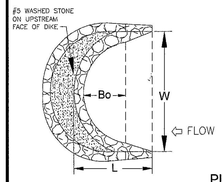
EROSION CONTROL BLANKET DETAIL

NOT TO SCALE

NOTES

1. More than the minimum of one fastener per square yard may be required due to conditions such as blanket composition, soil type, surface uniformity, and slope steepness.
2. See **Standard Specification 8-01.3(3)** and **9-14.5)2).**
3. Use manufacturer's requirements. When manufacturer's requirements are not provided, use installation requirements shown on Standard Plans.
4. Additional staples may be required on slopes greater than 3H : 1V
5. Erosion Control Blanket Specifications: Terra Guard Double Coconut or C-125 Double Net Coconut or Approved Equal by VIHFA



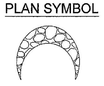


TYPICAL ROCK DIKE DIMENSIONS

W	L	Bo	MAX. DRAINAGE (ACRES)	TOTAL STORAGE VOL. (CU. FT.)	SEDIMENT STORAGE VOLUME (CU. FT.)
15'	17.5'	3.5'	0.5	1259	283
20'	20.0'	6.0'	1.0	1946	529
25'	22.5'	8.5'	1.5	2790	855
30'	25.0'	11.0'	2.0	3790	1257

MAXIMUM 2-ACRE DRAINAGE AREA TO DIKE

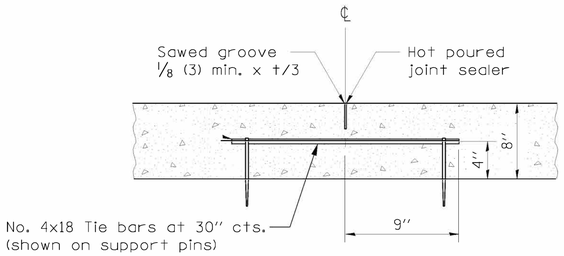
PLAN SYMBOL



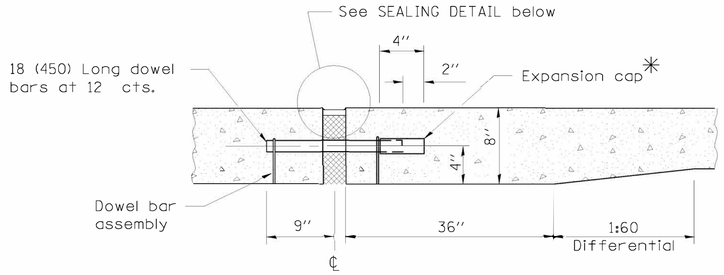
Job #: VIHFA Date: Oct. 16, 2018 Sheet: 9 of 18

ADVANCED METHODS OF SURVEYING, LLC

$FILE



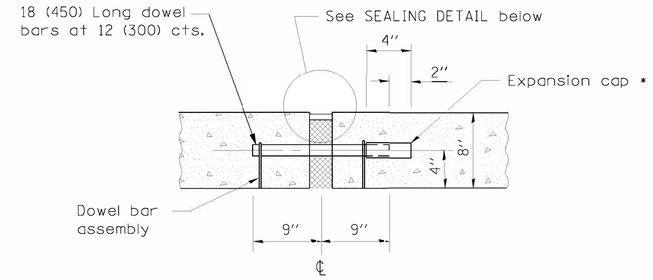
LONGITUDINAL SAWED JOINT



*Expansion caps shall be installed on the exposed end of each dowel bar once the header has been removed and the joint filler material has been installed.

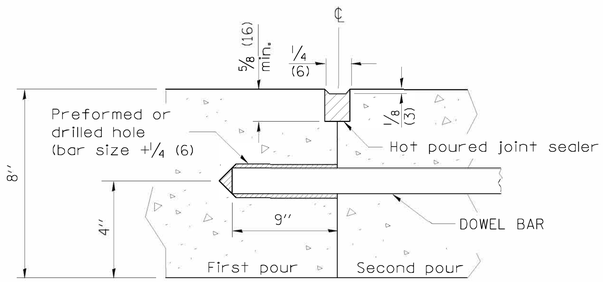
TRANSVERSE EXPANSION JOINT

(FOR PAVEMENTS WITH UNEQUAL THICKNESS)



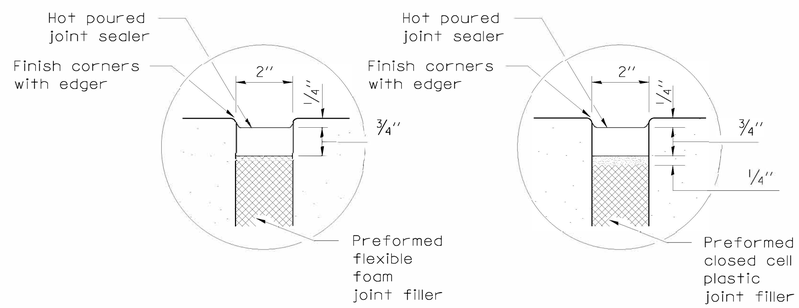
TRANSVERSE EXPANSION JOINT

(FOR PAVEMENTS WITH EQUAL THICKNESS)



LONGITUDINAL CONSTRUCTION JOINT

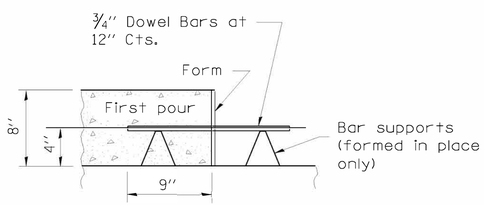
(TIE BAR GROUTED IN PLACE)



SEALING DETAIL

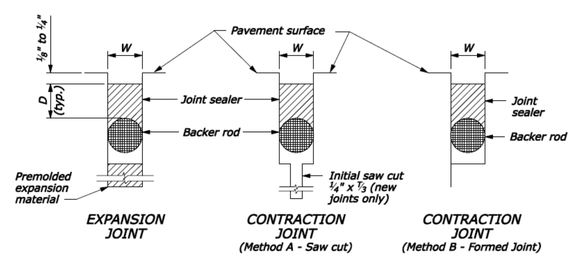
NOTE:

1. *Lap longitudinal reinforcement not less than 13-inches.*
2. *Lap transverse reinforcement not less than 9-inches.*
3. *Eliminate all longitudinal and transverse reinforcing steel, wire, or bars where plain portland cement concrete pavement or base is required.*
4. *Provide the same type of dowel assemblies and tie bars for joints in plain portland cement concrete pavement as shown for joints in reinforced pavement.*
5. *Space transverse expansion joints at a minimum of 280 feet.*
6. *Space transverse contraction joints for reinforced concrete pavement at not more than 40 foot intervals and for plain concrete pavement or base at not more than 20 foot intervals.*
7. *See Standard 501-2 for joint details and joint sealing details.*



LONGITUDINAL CONSTRUCTION JOINT

(TIE BAR FORMED IN PLACE OR MECHANICALLY INSERTED)



REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT JOINT SEALING DETAILS

DOWEL BAR TABLE	
PAVEMENT THICKNESS	DOWEL BAR DIAMETER
8'' or greater	3/4''
Less than 7''	5/8''

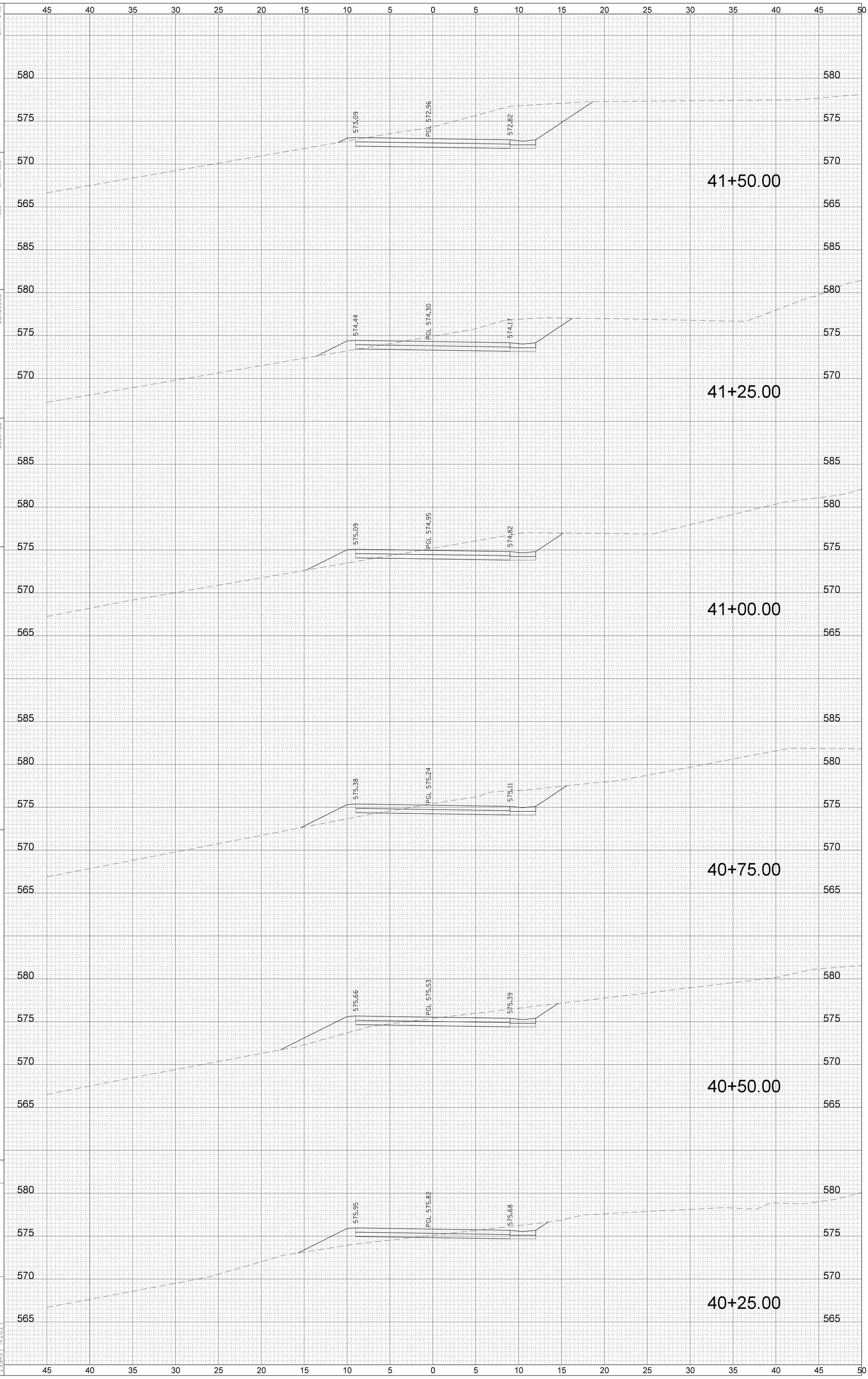
PAVEMENT DETAILS

Job #: VIHFA Date: Oct. 16, 2018 Sheet: 10 of 18

ADVANCED METHODS OF SURVEYING, LLC

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		



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USER NAME = $USER$

PLOT SCALE = $SCALE$

PLOT DATE = $DATE$

DESIGNED -

DRAWN -

CHECKED -

DATE - FEB 22 2017

REVISED -

REVISED -

REVISED -

REVISED -

PROPOSED STREET – PINEAPPLE COURT

CROSS SECTIONS

SCALE:

SHEET OF SHEETS

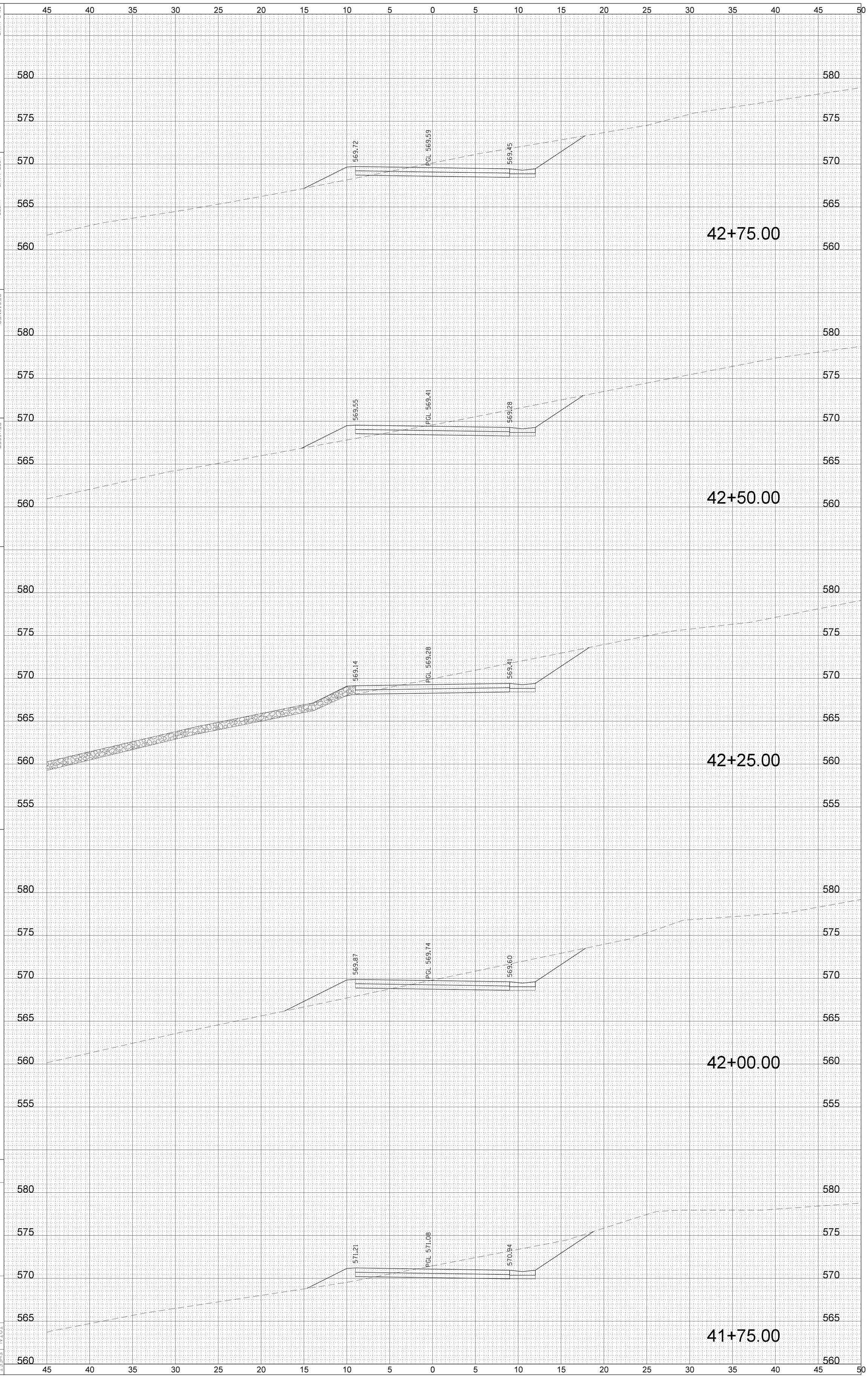
STA. TO STA.

TOTAL SHEETS 18

SHEET NO. 11

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		



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PLOT SCALE = $SCALE$

PLOT DATE = $DATE$

DESIGNED -

DRAWN -

CHECKED -

DATE - FEB 22 2017

REVISED -

REVISED -

REVISED -

REVISED -

PROPOSED STREET – PINEAPPLE COURT

CROSS SECTIONS

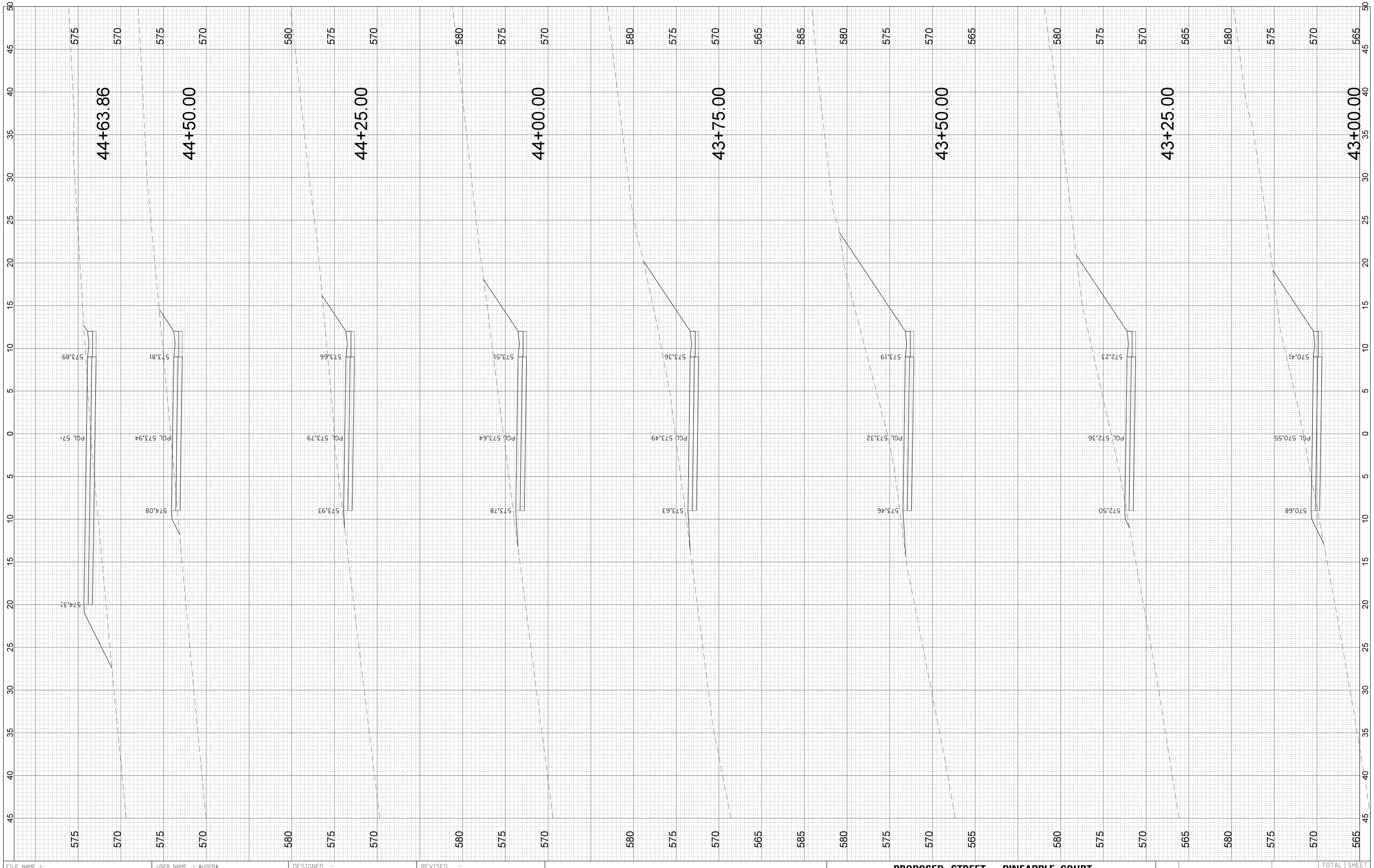
SCALE:

SHEET OF SHEETS

STA. TO STA.

TOTAL SHEETS 18

SHEET NO. 12



FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
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	PLOT DATE = $DATE$	DATE - FEB 22 2017	REVISED -

PROPOSED STREET – PINEAPPLE COURT

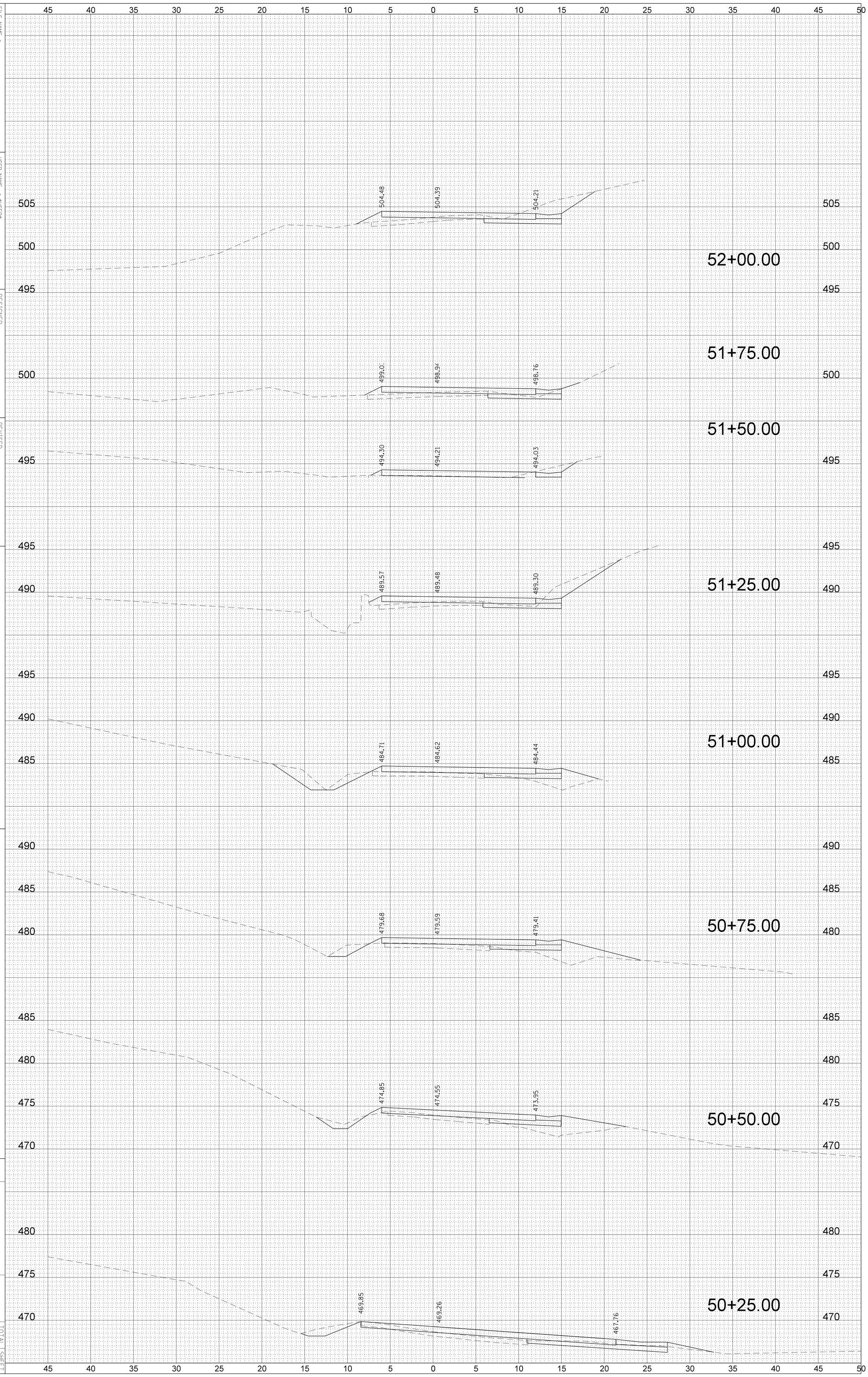
CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

TOTAL SHEETS	SHEET NO.
18	13

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		



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PLOT SCALE = $SCALE$

PLOT DATE = $DATE$

DESIGNED -

DRAWN -

CHECKED -

DATE - FEB 22 2017

REVISED -

REVISED -

REVISED -

REVISED -

PROPOSED WIDENING – FAA ACCESS RD

CROSS SECTIONS

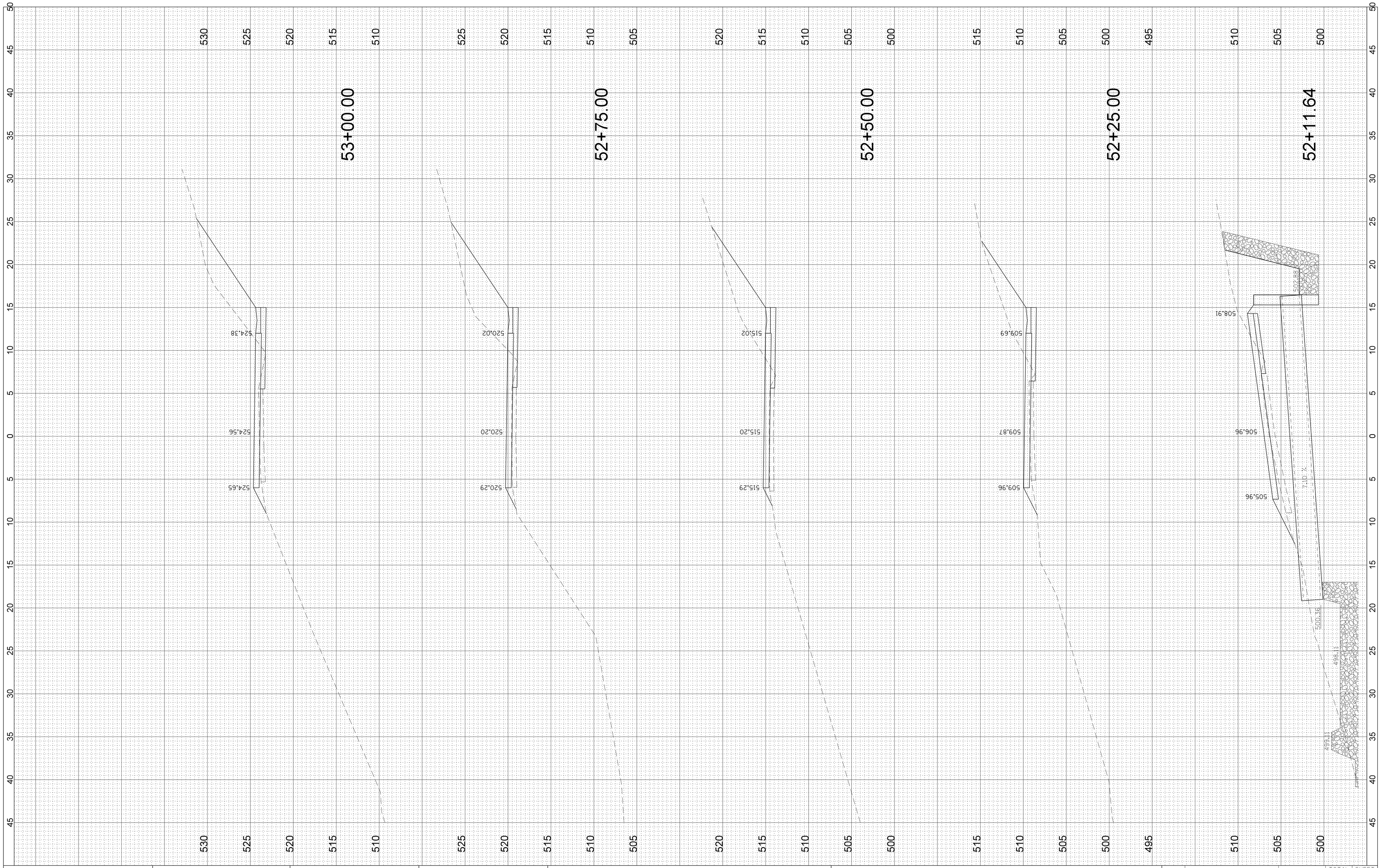
SCALE:

SHEET OF SHEETS

STA. TO STA.

TOTAL SHEETS **18**

SHEET NO. **14**



FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

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		DRAWN -	REVISED -
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	PLOT DATE = $DATE$	DATE - FEB 22 2017	REVISED -

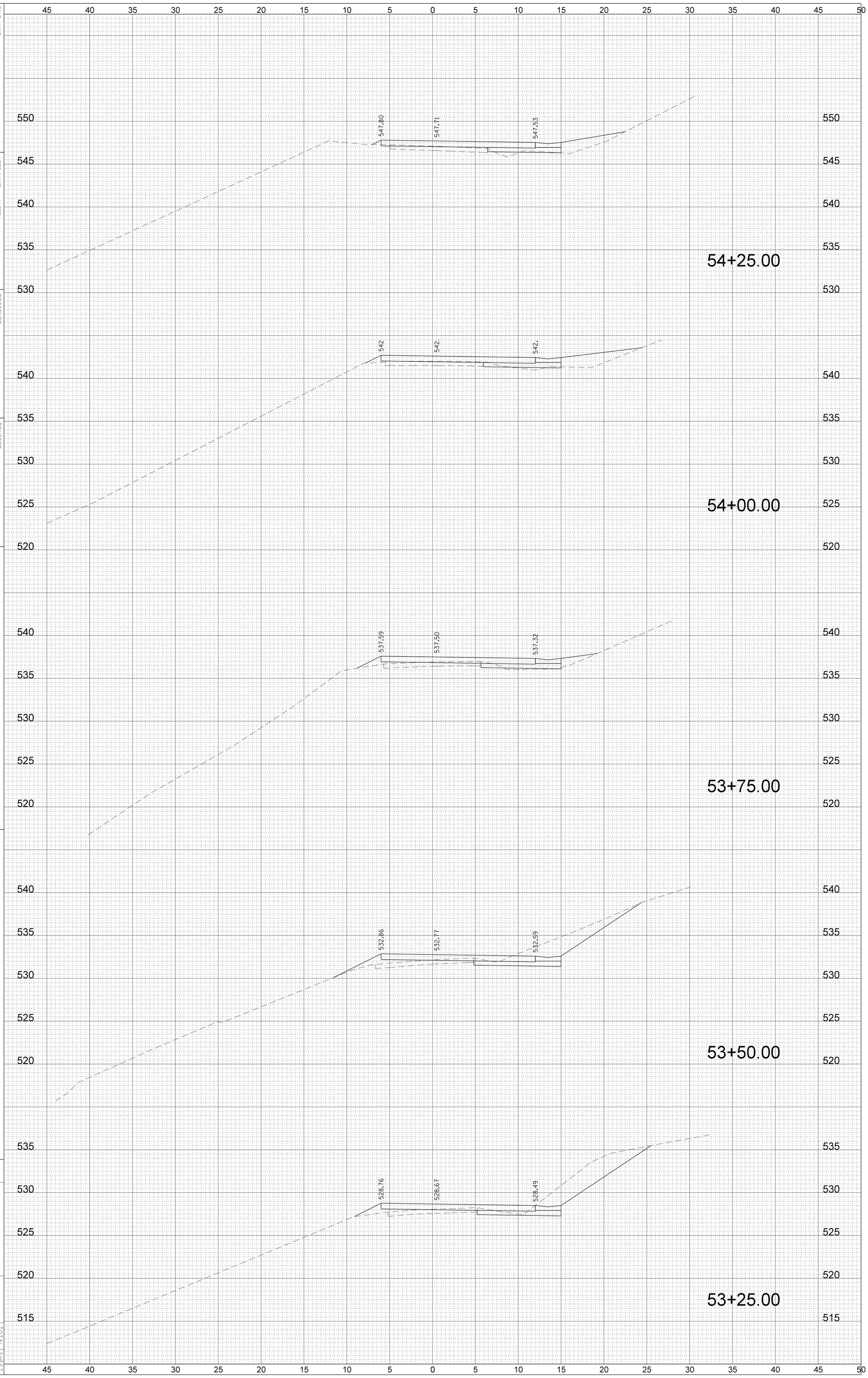
PROPOSED WIDENING – FAA ACCESS RD
CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

TOTAL SHEETS	SHEET NO.
18	15

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		



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PLOT SCALE = $SCALE$

PLOT DATE = $DATE$

DESIGNED -

DRAWN -

CHECKED -

DATE - FEB 22 2017

REVISED -

REVISED -

REVISED -

REVISED -

PROPOSED WIDENING – FAA ACCESS RD

CROSS SECTIONS

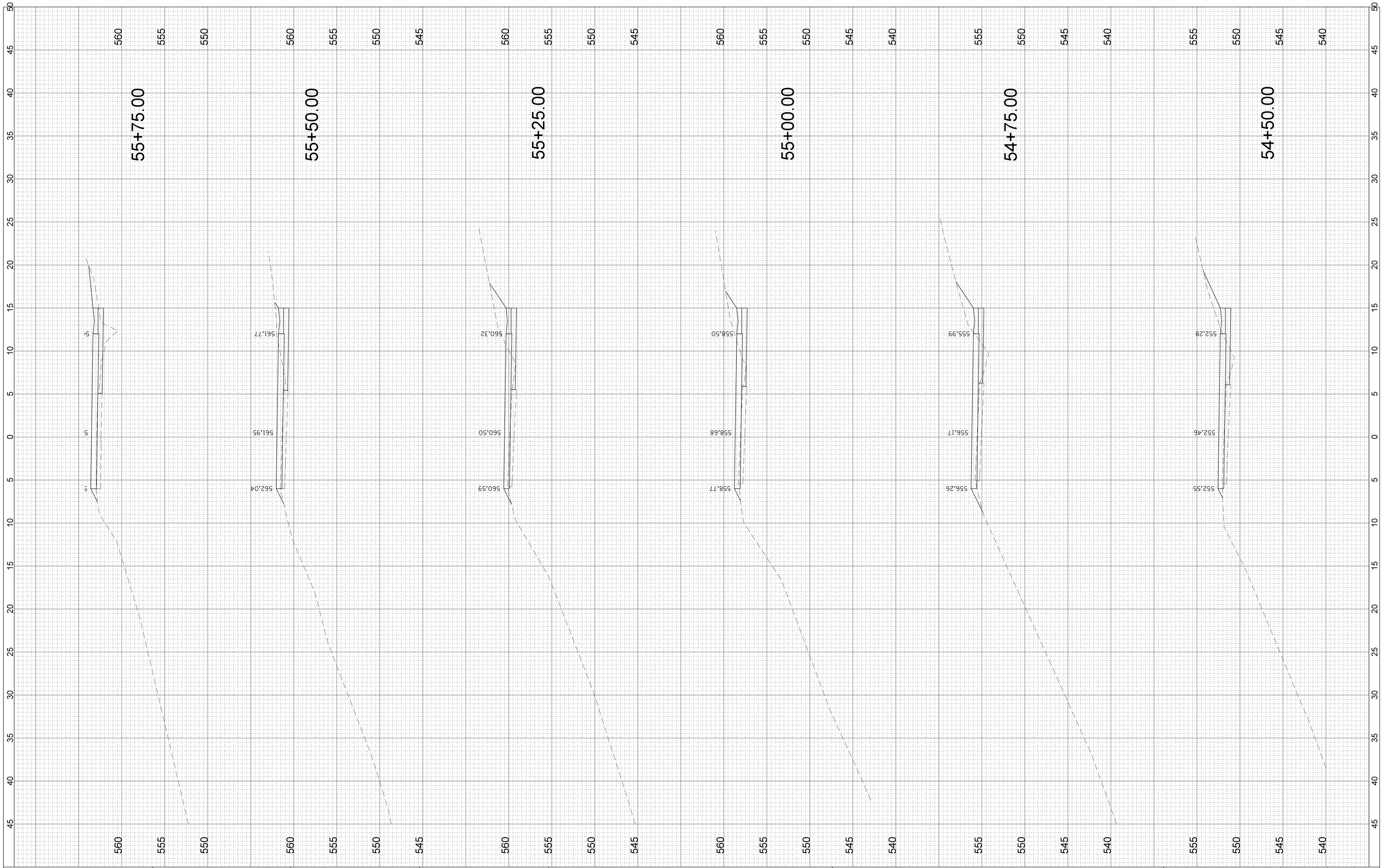
SCALE:

SHEET OF SHEETS

STA. TO STA.

TOTAL SHEETS 18

SHEET NO. 16



FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
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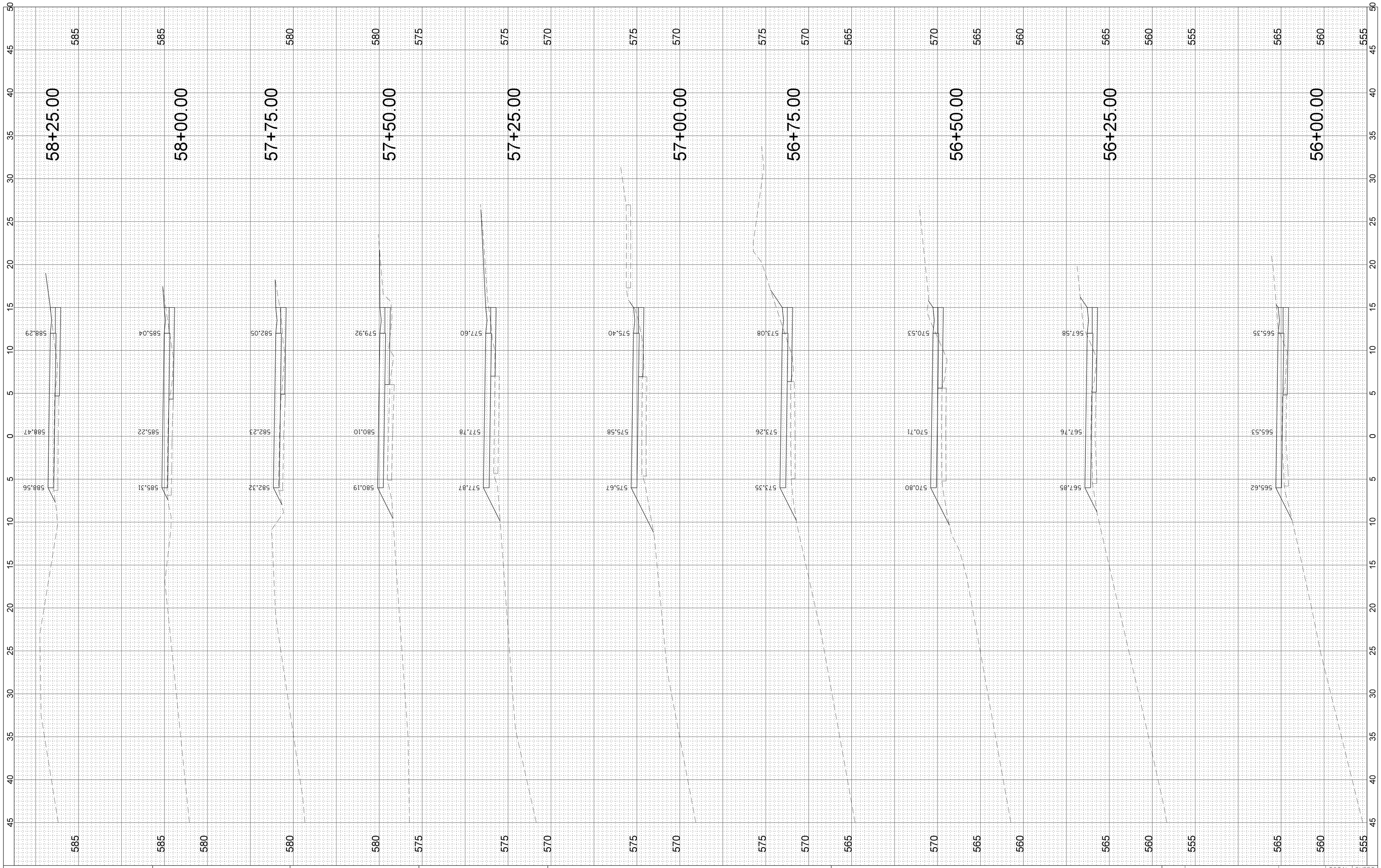
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE - FEB 22 2017	REVISED -

PROPOSED WIDENING – FAA ACCESS RD
CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

TOTAL SHEETS	SHEET NO.
18	17



FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
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	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE - FEB 22 2017	REVISED -

PROPOSED WIDENING – FAA ACCESS RD
CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

TOTAL SHEETS	SHEET NO.
18	18