

GOVERNMENT OF THE VIRGIN ISLANDS  
OF THE UNITED STATES  
DEPARTMENT OF PUBLIC WORKS  
PLANS FOR PROPOSED  
ROUTE 388, COKI POINT ROAD  
PHASE 2

DESCRIPTION OF PROJECT

IMPROVEMENTS:  
GRADING, DRAINAGE, CULVERT, AGGREGATE BASE, CONCRETE PAVING,  
SIDEWALKS, PAVEMENT MARKINGS AND OTHER MISCELLANEOUS WORK.

PROJECT LENGTH:

STATION	ROUTE 388 0+00.00 TO 1+09.37	FEET	MILES
STATION	ROUTE 388 1+09.37 TO 7+66.39	657.02	0.12
STATION	ROUTE 388 7+66.39 TO 11+34.26	367.87	0.07
STATION	ROUTE 388-A 1+83.88 TO 2+50.29	66.41	0.01
STATION	ROUTE 388-B 0+00.00 TO 1+18.35	118.35	0.02
TOTAL		1319.02	0.24

ROAD:

SURFACE:	WIDTH	TYPE
ROADBED:	20' +	CONCRETE AGGREGATE

DESIGN DATA:  
DESIGN SPEED

5-10 MPH

SPECIFICATIONS:  
"STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON  
FEDERAL HIGHWAY PROJECTS", FP-03 U.S. CUSTOMARY UNITS.

PROJECT CONSULTANTS:

UTILITY OWNERS:

LAND SURVEYOR:

KER ENGINEERING  
5032 NORRE GADE  
ST. THOMAS, VI 00802  
EMAIL: KERENGINEERING1@GMAIL.COM

SANITARY SEWER:

VI WASTE MANAGEMENT AUTHORITY  
9500 WHEATLEY CENTER, SUITE 2  
CHARLOTTE AMALE, ST THOMAS, USVI 00803  
PHONE: (340) 774-4139

WATER SERVICE:

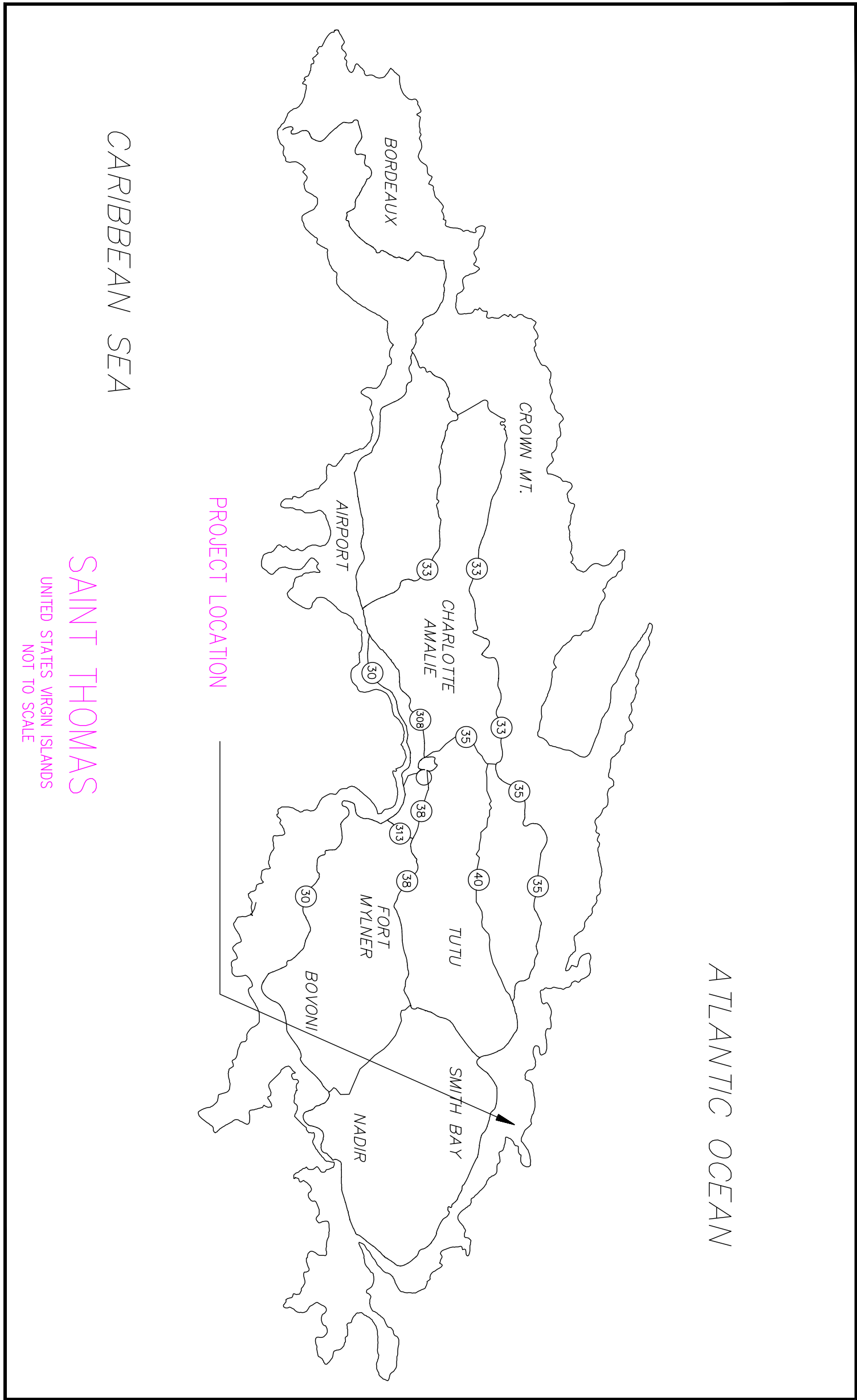
VIRGIN ISLANDS WATER AND POWER AUTHORITY  
PO BOX 1450  
CHARLOTTE AMALE, ST THOMAS, USVI 00804  
PHONE: (340) 774-3552

ELECTRIC SERVICE:

VIRGIN ISLANDS WATER AND POWER AUTHORITY  
PO BOX 1450  
CHARLOTTE AMALE, ST THOMAS, USVI 00804  
PHONE: (340) 774-3552

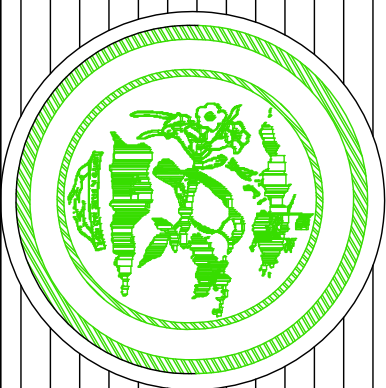
TELECOMMUNICATIONS:

INNOVATIVE  
TUTU PARK  
ST THOMAS, USVI 00804  
PHONE: (340) 779-9999



LIST OF DRAWINGS

DWG #	SHEET #	TITLE
T1	1	TITLE SHEET
G1	2	GENERAL NOTES, ABBREVIATIONS & LEGEND
G2	3	OVERALL PROJECT PLAN
G2.1	4	OVERALL PROJECT PLAN
G3	5	TYPICAL ROADWAY SECTIONS
G4	6	TABULATION OF QUANTITIES
EX1	7	EXISTING CONDITIONS PLANS
C1-G2	8-9	GENERAL PLAN & PROFILES
C3	10	EROSION CONTROL NOTES & DETAILS
C4-C7	11-14	CONSTRUCTIONS DETAILS
C8-C9	15-16	TEMPORARY TRAFFIC CONTROL DETAILS
C10	17	TRAFFIC CONTROL PLAN
C11-C12	18-19	CROSS SECTIONS



DEPARTMENT OF PUBLIC WORKS  
DIVISION OF ENGINEERING  
8244 SUB BASE  
ST. THOMAS, USVI

Approved:

Gustav James  
Commissioner of Public Works

Date

Approved:

ERAN FLEWING,  
Acting Chief Engineer  
Department of Public Works

Date

DESIGNED BY:

James J. Jones, Jr.

Date



EXISTING CONDITIONS NOTES:

1. THE SURFACE FEATURES AND TOPOGRAPHY SHOWN ARE THE RESULT OF AERIAL PHOTOGRAPHS BY THE U.S. ARMY CORPS OF ENGINEERS, INC. THE MONTHS OF DECEMBER 2011 AND OCTOBER 2012 BY AITILLEAN ENGINEERS, INC.
2. HORIZONTAL DATUM: ZONE CODE CS PR83F, NAD 83 PR/V.
3. VERTICAL DATUM: NAVD88
4. SUBJECT PROPERTY APPEARS TO FALL WITHIN F.I.R.M. DESIGNATION: PER FLOOD INSURANCE RATE MAP 7800000014G.
5. BEARINGS SHOWN ON THIS SURVEY ARE BASED ON FOUND DATA IN THE FIELD.
6. THE COMPLETED RIGHT OF WAY INFORMATION SHOWN WAS DEVELOPED FROM REFERENCE PLANS, CURRENT DEEDS OF RECORD AND PHYSICAL EVIDENCE FOUND, CONFLICTS AND ERRORS WITHIN THE SURVEY PLATS, INSUFFICIENT FIELD DATA, AND ERRONEOUS GEOMETRY PROHIBIT BOUNDARY CLOSURE. ADDITIONAL RIGHTS MAY EXIST BEYOND THE LIMITS OF THE RIGHT OF WAY SHOWN. CONTRACTOR TO PERFORM BOUNDARY VERIFICATION BEFORE PROCEEDING WITH WORK.
7. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN COMPILED IN PART FROM PLANS OF RECORD, W.A.P.A. DELINEATION AND FIELD LOCATION. THE LOCATION OF UNDERGROUND UTILITIES SHOULD BE CONSIDERED APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITIES.

REMOVAL / DEMOLITION NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL ITEMS TO BE REMOVED PRIOR TO ANY CONSTRUCTION.
2. PRESERVE AND PROTECT ALL UTILITIES, PAVEMENT AND TREES NOT SCHEDULED FOR DEMOLITION.
3. WHEN PREPARING THE SITE FOR PROPOSED DEVELOPMENT, ALL MATERIALS REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL GOVERNING AGENCIES AT NO ADDITIONAL COST TO THE OWNER.
4. THE CONTRACTOR TO COORDINATE ALL UTILITY POLE RELOCATION WITH THE VIRGIN ISLAND WATER AND POWER AUTHORITY (WIAPA).
5. THE CONTRACTOR TO COORDINATE ALL WATER WORK AND WATER METER BOX RELOCATION WITH THE VIRGIN ISLANDS WATER AND POWER AUTHORITY (WIAPA). THERE MAY BE ADDITIONAL METER BOXES NOT SHOWN ON THE PLANS THAT NEED TO BE RELOCATED WITHIN THE PROJECT AREA.

EROSION & SEDIMENT CONTROL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING EROSION CONTROL MEASURES IN ORDER TO PREVENT OFF-SITE TRACKING OF EARTH, SEDIMENT AND DEBRIS.
2. DUST SHALL BE CONTROLLED THROUGH THE USE OF WATER.
3. ALL PERMANENT SEEDING SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS FP-03 SECTION 157 – SOIL EROSION CONTROL.
4. CONTRACTOR SHALL REPAIR, CLEAN, AND REPLACE ANY SEDIMENT CONTROLS DAMAGED DURING AND/OR AFTER RAIN EVENTS AS DIRECTED BY ENGINEER/PUBLIC WORKS DEPARTMENT OF ST. THOMAS.
5. DEWATERING OF WORK ZONES IF REQUIRED, SHALL BE DISCHARGED INTO APPROVED SEDIMENT RETENTION MEASURES. THE CONTRACTOR SHALL NOT DISCHARGE DIRECTLY INTO EXISTING STORM DRAINAGE SYSTEMS, WATERCOURSES OR WATERWAYS. ALL CATCH BASINS SHALL HAVE SEDIMENT FILTERS INSTALLED IN THE INLETS.
6. SEE DRAWING C13 FOR ADDITIONAL EROSION & SEDIMENT CONTROL NOTES AND DETAILS.

GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY AND DETERMINE THE LOCATION, SIZE, AND ELEVATION OF ALL EXISTING UTILITIES, SHOWN OR NOT SHOWN ON THESE PLANS PRIOR TO THE START OF ANY CONSTRUCTION. THE CONTRACTOR SHALL LOCATE THE UTILITIES SHOWN AND THE POSSIBLE LOCATION OF UNIDENTIFIED UTILITIES PRIOR TO ANY CONSTRUCTION. OBSERVATION OF TESTS BY THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION SHALL BE AGREED TO BY THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
2. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE ACTIVITIES AS NECESSARY WITH OTHER CONTRACTORS AND UTILITY COMPANIES TO ENSURE WORK INTERFACES SMOOTHLY WITH OTHER WORK BEING PERFORMED ON SITE.
3. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF/HIMSELF WITH PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY INSTRUCTION.
4. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, FEES, TEMPORARY UTILITIES AND COORDINATING WITH ALL AGENCIES IN OBTAINING ACCESS TO THE SITE AND PERFORMING ALL WORK REQUIRED FOR THIS PROJECT. CONSTRUCTION AND FOR CONDITIONS OF THE SITE.
5. THE CONTRACTOR SHALL PROTECT AND MAINTAIN EXISTING BENCHMARKS AND BOUNDS. ALL BENCHMARKS AND BOUNDS DISTURBED BY THE CONTRACTOR SHALL BE RE-ESTABLISHED BY A REGISTERED LAND SURVEYOR AT NO EXPENSE TO THE OWNER.
6. THE CONTRACTOR SHALL PERFORM ALL THE CLEARING AND GRUBBING NECESSARY WITHIN THE CONSTRUCTION AREA, LIMITING THE AMOUNT OF CLEARING AND GRUBBING TO THE EXTENT POSSIBLE.
7. THIS PROJECT IS TO BE CONSTRUCTED TO THE TYPICAL SECTIONS AND DETAILS SHOWN ON THE PLANS, AND SHALL MEET THE MOST CURRENT WVI STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED.
8. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SAYING PLANS. IN CASE OF CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWING AND/OR SPECIFICATION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION.
9. ALL DIMENSIONS ARE TO THE EDGE OF CURB AT THE GUTTER LINE OR TO THE CENTER OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
10. ALL PAVEMENT MARKINGS AND SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AMERICANS WITH DISABILITIES ACT (ADA) AND STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS.
11. ALL PAVEMENT MARKINGS SHALL BE MADE WITH PERMANENT THERMOPLASTIC AND SHALL CONFORM TO FHWA STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS FP-03, SECTION 639.
12. ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS IN THE IMMEDIATE AREA.
13. MAINTENANCE OF TRAFFIC: WHILE WORKING IN THE PUBLIC ROW, SUITABLE BARRICADES, LIGHTS AND SIGNS SHALL BE PROVIDED BY THE CONTRACTOR AND MAINTAINED 24 HOURS A DAY UNTIL COMPLETION OF THE WORK. ALL TRAFFIC CONTROL DEVICES AND LAYOUT SHALL COMPLY WITH VI TRAFFIC CONTROL REQUIREMENTS AND FHWA'S "MANUAL OF UNIFORM TRAFFIC CONTROL" DEVICES FOR STREETS AND HIGHWAYS. THE CONTRACTOR SHALL HAVE HIS/HER MAINTENANCE OF TRAFFIC PLAN APPROVED BY THE DEPARTMENT OF PUBLIC WORKS PRIOR TO COMMENCING CONSTRUCTION.
14. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL RESIDENCES AFFECTED BY CONSTRUCTION. IF A UTILITY LINE ACCESS SHALL BE PROVIDED FOR MORE THAN TWO HOURS IN 24 HOUR NOTICE SHALL BE TAKEN TO MINIMIZE ACCESS INTERRUPTIONS. TEMPORARY ACCESS SHALL MEET ADA REQUIREMENTS.
15. CONTRACTOR SHALL RESTORE ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK TO PRE-CONSTRUCTION CONDITIONS FOR PAVEMENTS, SURFACES, SIDEWALKS, CURBS, ETC UNLESS OTHERWISE NOTED.

CONSTRUCTION GENERAL PERMIT NOTES:

1. THE OWNER IN CONJUNCTION WITH THE CONTRACTOR (OPERATOR) NEEDS TO OBTAIN A CONSTRUCTION GENERAL PERMIT (CGP) FOR LARGE CONSTRUCTION ACTIVITIES (GREATER THAN ONE ACRE BUT LESS THAN FIVE ACRES) FROM THE ENVIRONMENTAL PROTECTION AGENCY (EPA). AS PART OF THE CGP, A STORMWATER NOTICE OF INTENT (NOI) WILL NEED TO BE SUBMITTED TO THE EPA AT LEAST 14 DAYS PRIOR TO COMMENCING CONSTRUCTION. THE NOI WILL NEED TO BE SUBMITTED TO STORMWATER NOTICE OF INTENT (4203M), USEPA, 1200 PENNSYLVANIA AVE. NW, WASHINGTON, DC 20460.
2. THE CGP OUTLINES A SET OF PROVISIONS MANDATING THE OWNER AND CONTRACTOR COMPLY WITH THE REQUIREMENTS OF THE TERRITORIAL VIRGIN ISLANDS STORMWATER POLLUTION PREVENTION PLANS (VI SWPPP) STORMWATER REGULATION INCLUDING BUT NOT LIMITED TO: IMPLEMENTATION OF EROSION AND SEDIMENT CONTROL MEASURES, EQUIPMENT MAINTENANCE GUIDELINES, ETC. PLEASE CONTACT US/SPA OFFICE OF WASTEWATER MANAGEMENT AT 202-664-9545 OR AT WWW.EPA.GOV/NPDES/STORMWATER FOR ADDITIONAL INFORMATION.
3. SEE SPECIFICATIONS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.

GRADING & DRAINAGE NOTES:

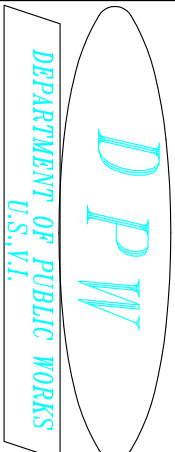
1. PROVIDE UNIFORM SLOPE BETWEEN CONTOURS AND/OR SPOT ELEVATIONS, FINISH PAVEMENT SURFACES AND LAND AREAS SHALL BE FREE OF LOW SPOTS AND PONING AREAS.
  2. EARTH SLOPES SHALL BE NO STEEPER THAN 1:1
  3. ALL DETENTIONS MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED FROM THE SITE. EXCAVATED AREAS ARE TO BE BACKFILLED WITH THE OWNER'S ENGINEER EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS DIRECTED ON THESE PLANS.
  4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND SHALL PROVIDE BRACING, SHEETING, OR SHORING AS NECESSARY. TRENCES SHALL BE KEPT DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED. DEWATERING SHALL BE USED AS REQUIRED, AND PERMITTED THROUGH LOCAL AGENCIES AND WATER MANAGEMENT DISTRICT PER CURRENT REGULATIONS.
  5. GENERAL FILL BEYOND PAVED AREAS SHALL BE FREE OF BRUSH, RUBBISH, STUMPS, AND STONES LARGER THAN 8 INCHES. FILL SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 8 INCHES IN THICKNESS. THE DRY DENSITY AFTER COMPACTION SHALL NOT BE LESS THAN 95% OF THE STANDARD PROCTOR TEST AND DONE IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM D698.
  6. PRIOR TO THE PLACEMENT OF LOAM IN THE AREAS TO BE TOPSOILED, THE SUBGRADE SHALL BE LOOSENEED BY SCARPING TO A DEPTH OF AT LEAST 2 INCHES TO ENSURE BONDING OF THE TOPSOIL AND SUBSOIL.
  7. ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS THAT DO NOT HAVE A SURFACE TREATMENT SPECIFICALLY SPECIFIED SHALL BE RESTORED TO A MINIMUM OF 4 INCHES OF SORENEED AND SEDED TOPSOIL, FERTILIZER, AND MULCH.
  8. WHEN PREPARING THE EXISTING SITE FOR THE PROPOSED DEVELOPMENT, ALL MATERIALS REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL GOVERNING AGENCIES AT NO ADDITIONAL COST.
  9. THE CONTRACTOR SHALL STABILIZE ANY AND ALL DITCHES, SWALES AND PONDS PRIOR TO DIRECTING STORMWATER RUN-OFF TO THEM.
  10. THE STORM DRAINAGE SYSTEM SHALL BE CONSTRUCTED TO LINE AND GRADE AS SHOWN ON THE PLANS. ALL PIPE MATERIALS SHALL BE AS SPECIFIED ON THE PLANS.
  11. ALL DRAINAGE STRUCTURES, GRATES, AND COVERS WITHIN TRAFFIC AREAS SHALL BE TRAFFIC RATED FOR H-20 LOADINGS UNLESS OTHERWISE SHOWN.
  12. PROPOSED RIM ELEVATIONS OF DRAINAGE MANHOLES AND CATCH BASINS ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH WITH FINISH GRADES.
  13. THE CONTRACTOR SHALL PROVIDE FOR THE HANDLING OF EXISTING FLOWS FROM SERVICE CONNECTIONS AND MAINLINE PIPES. THE EXISTING PIPES AND DRAINAGE FLOW ACTING FLOWS AND THE CONTRACTOR SHALL MAINTAIN CONTINUOUS FLOW WITHOUT RESTRICTIONS.
  14. WHEN CONNECTING NEW PIPES TO EXISTING STRUCTURES SUCH AS MANHOLES AND CATCH BASINS, THE STRUCTURE SHALL BE COMPLETELY CLEANED OUT. THE HOLE MADE IN THE STRUCTURE SHALL BE AS SMALL AS NECESSARY. THE STRUCTURE SHALL BE REPAIRED TO MATCH ITS ORIGINAL TYPE OF CONSTRUCTION. THE JOINT BETWEEN THE STRUCTURE AND THE PIPE SHALL BE MADE WATERTIGHT BY FILLING THE JOINT WITH MORTAR.
  15. THE CONTRACTOR SHALL CLEAN THE ENTIRE STORMWATER SYSTEM OF ALL SEDIMENT AND DEBRIS, WITHIN THE LIMIT OF WORK UPON COMPLETION OF CONSTRUCTION.
  16. THE STORM DRAINAGE SYSTEM SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. THE CONTRACTOR SHALL COORDINATE A FINAL INSPECTION OF THE COMPLETED STORMWATER SYSTEM PRIOR TO FINAL ACCEPTANCE BY THE OWNER. CONTRACTOR SHALL NOTIFY OWNER 48 HOURS IN ADVANCE OF ANOTHER INSPECTION.
- UTILITY NOTES:
1. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES OWNING UTILITIES, EITHER OVERHEAD OR UNDERGROUND, WITHIN THE CONSTRUCTION AREA AND SHALL COORDINATE WORK WITH THE UTILITY COMPANIES. THE PROTECTION OR RELOCATION OF UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
  2. THIS PROJECT IS TO BE CONSTRUCTED TO THE TYPICAL SECTIONS AND DETAILS SHOWN ON THE PLANS, AND SHALL MEET THE STANDARDS OF WMA, WIAPA AND THE VIRGIN ISLANDS PUBLIC WORKS DEPARTMENT.
  3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR TO DAMAGED UTILITIES CAUSED BY HIS/HER OPERATIONS.
  4. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, FEES, TEMPORARY UTILITIES AND COORDINATING WITH ALL AGENCIES IN OBTAINING ACCESS TO THE SITE AND PERFORMING ALL WORK REQUIRED FOR THIS PROJECT.
  5. THE CONTRACTOR SHALL COORDINATE MATERIAL AND INSTALLATION SPECIFICATIONS WITH THE INDIVIDUAL UTILITY AGENCIES/COMPANIES, AND ARRANGE FOR ALL INSPECTIONS.
  6. PROPOSED RIM ELEVATIONS ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH WITH FINISH GRADES. ADJUST ALL OTHER RIM ELEVATIONS OF MANHOLES, WATER GATES, GAS GATES, AND OTHER UTILITIES TO FINISHED GRADE WITHIN LIMITS OF WORK.
  7. THE CONTRACTOR SHALL MAINTAIN UTILITY SERVICES TO EXISTING UTILITIES. AT ALL TIMES, IF ANY DISRUPTION MUST OCCUR, THE CONTRACTOR SHALL ADVISE AND COORDINATE WITH THE FACILITY AT LEAST 72 HOURS IN ADVANCE.
  8. THE CONTRACTOR SHALL COORDINATE MATERIALS AND INSTALLATION SPECIFICATIONS WITH THE INDIVIDUAL UTILITY AGENCIES/COMPANIES, AND ARRANGE FOR ALL INSPECTIONS.
  9. ALL UNDERGROUND UTILITIES SHALL BE IN PLACE, TESTED, AND INSPECTED AS REQUIRED PRIOR TO BACKFILL AND SURFACE CONSTRUCTION.

ABBREVIATIONS:

ABAN	ABANDONED
AC	ASBESTOS/ CONCRETE
ADU	ADJUST
APPROX	APPROXIMATE
B=	BOTTOM=
B=	BOTTOM OF CURB
BEWM	BITUMINOUS CONCRETE BERM
BIT CONC	BITUMINOUS CONCRETE
BLDG	BUILDING
BS	BOTTOM OF SLOPE
BW	BROKEN WHITE LANE LINE
BULL	BOTTOM OF WALL
CB	CATCH BASIN
CB(C)	CATCH BASIN CURB INLET
CI	CAST IRON
CC	CAST IRON CEMENT LINED
CICL	CAST IN PLACE
CP	CURB & GUTTER
CL	CENTER LINE
CLF	CHAIN LINK FENCE
CMP	CORRUGATED METAL PIPE
CO	CULAN OUT
COL	COLUMN
CONC	CONCRETE
CR	CONDENSATE PIPE
DHW	DESIGN HIGH WATER
DI	DUCTILE IRON
DIQL	DUCTILE IRON CEMENT LINED
DIA	DIAMETER
DMH	DRAIN MANHOLE
DWG	DRAINAGE
DTOL	DOUBLE YELLOW CENTER LINE
EL, ELEV	ELEVATION
ELEV	ELECTRIC
ELEV	ELEVATION
ELING	ELONG MANHOLE
EXIST	EXISTING
FCS	FINISHED GROUND SECTION
FEL	FINISH FLOOR ELEVATION
FI	FORCE MAIN
GC	GAS GATE
GC	GAS GATE
GM	GUARDRAIL
GR	GRASS
GW	GUY WIRE
HDPE	HIGH DENSITY POLYETHYLENE
HH	HAND HOLE
HORIZ	HORIZONTAL
HR	HANDRAIL
HVC	HEAT VENT AIR CONDITIONING
HVD	HYDRANT
INV	INVERT
IP	INVERT
IP	IRON PIPE
LP	LIGHT POLE
LS	LANDSCAPED
LT	LEFT
MC	MAXIMUM
MAX	MAXIMUM
MHW	MEAN HIGH WATER
MIN	MINIMUM
NO. #	NUMBER
NCS	NOT TO SCALE
OC	OUTLET CONTROL STRUCTURE
OH	OVERHANG
P	PULL BOX
PB	PERFORATED
PERF	PERFORATED
PL	PLASTIC
PROP	PROPOSED
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
PVI	POST VALVE INDICATOR
R=	RIM=
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RET	RECORD
(ree)	RECORD
RET	RETAINING
RT	RIGHT
SOC	SLOPED GRANITE CURB
SMH	SEWER MANHOLE
SPC	SPECIFICATION
SS	SANITARY SEWER
ST	STATION
STA	STATION
STH	STEAM MANHOLE
SW	SIDEWALK
SWEL	SOLID WHITE EDGE LINE
SWLL	SOLID WHITE LANE LINE
TC	TOP OF CURB
TEB	TRAFFIC CONTROL BOX
TELE	TELEPHONE
TL	TRAFFIC LIGHT
TMH	TELEPHONE MANHOLE
TRANS	TRANSFORMER
TS	TRANSFORMER TOP OF SLOPE
TW	TOP OF WALL
TP	TYPICAL
UP	UTILITY POLE
VC	VERTICAL CLAY
VERT	VERTICAL GRANITE CURB
WOC	WATER CONNECTION
W	WATER
WC	WATER CONNECTION
WC	WATER CONNECTION
WP	WATER PUMP
WM	WATER METER
WW	WINDOW WELL

LEGEND

EXISTING	PROPOSED	DESCRIPTION
---	---	RIGHT OF WAY
---	---	PROPERTY LINE
---	---	EASEMENT
---	---	UNMARKED POINT
---	---	SURVEY MONUMENT
---	---	ROADWAY CENTERLINE
---	---	EDGE OF GRAVEL
---	---	EDGE OF PAVEMENT
---	---	BITUMINOUS BERM
---	---	BITUMINOUS CURB
---	---	CONCRETE CURB
---	---	CURB & GUTTER
---	---	SANICUT
---	---	BUILDING
---	---	BOLLARD
---	---	SIGN
---	---	DOUBLE SIGN
---	---	GUARDRAIL
---	---	TREES
---	---	TREELINE
---	---	CHAINLINK FENCE
---	---	RETAINING WALL
---	---	SILT FENCE
---	---	FLOW DIRECTION
---	---	SWALE
---	---	MINOR CONTOUR
---	---	MAJOR CONTOUR
---	---	TRAFFIC ARROW
---	---	PARKING COUNT
---	---	4" SINGLE SOLID WHITE LINE
---	---	4" DOUBLE SOLID YELLOW LINE
---	---	18" WHITE STOP LINE
---	---	WHITE PAINTED CROSSWALK
---	---	ACCESSIBLE TIP-DOWN RAMP
---	---	SPOT ELEVATION
---	---	BORING LOCATION
---	---	TEST PIT LOCATION
---	---	DRAIN LINE
---	---	CONCRETE BOX CULVERT
---	---	SEWER LINE
---	---	OVERHEAD WIRE
---	---	UNDERGROUND ELECTRIC
---	---	CATCH BASIN (DOUBLE GRATE)
---	---	DRAIN MANHOLE
---	---	FLARED END SECTION
---	---	HEADWALL
---	---	SEWER MANHOLE
---	---	WATER SHUT-OFF
---	---	WATER VALVE & BOX
---	---	FIRE HYDRANT
---	---	THRUST BLOCK
---	---	WATER METER
---	---	POST INDICATOR VALVE
---	---	WATER MANHOLE
---	---	ELECTRIC MANHOLE
---	---	ELECTRIC METER
---	---	LIGHT POLE
---	---	TRANSFORMER PAD
---	---	UTILITY POLE
---	---	GUY POLE
---	---	GUY WIRE & ANCHOR
---	---	HAND HOLE
---	---	PULL BOX
---	---	INLET PROTECTION
---	---	CHECK DAM
---	---	TREE TO BE REMOVED
---	---	PAVED SURFACE
---	---	RIP-RAP
---	---	EROSION CONTROL MATTING



DEPARTMENT OF PUBLIC WORKS  
DIVISION OF ENGINEERING  
ST. THOMAS, U.S. VIRGIN ISLANDS

USVI 388

COMMISSIONER OF P.W.D.	CHIEF ENGINEER	SUBMITTED BY
GUSTAV JAMES, P.E. DEPUTY COMMISSIONER OF DRAINAGE	ACTIVE RIM ENGINEER, P.E. DISTRICT ENGINEER	DRAWN BY: J4 SCALE: 1"=40' DATE: 5/6/2016

GENERAL NOTES  
& ABBREVIATIONS

DPW FILE NO.  
DIVISION OF ENGINEERING

PROJECT NO.  
ROAD FILE NAME

SHEET NO.  
61 of 19



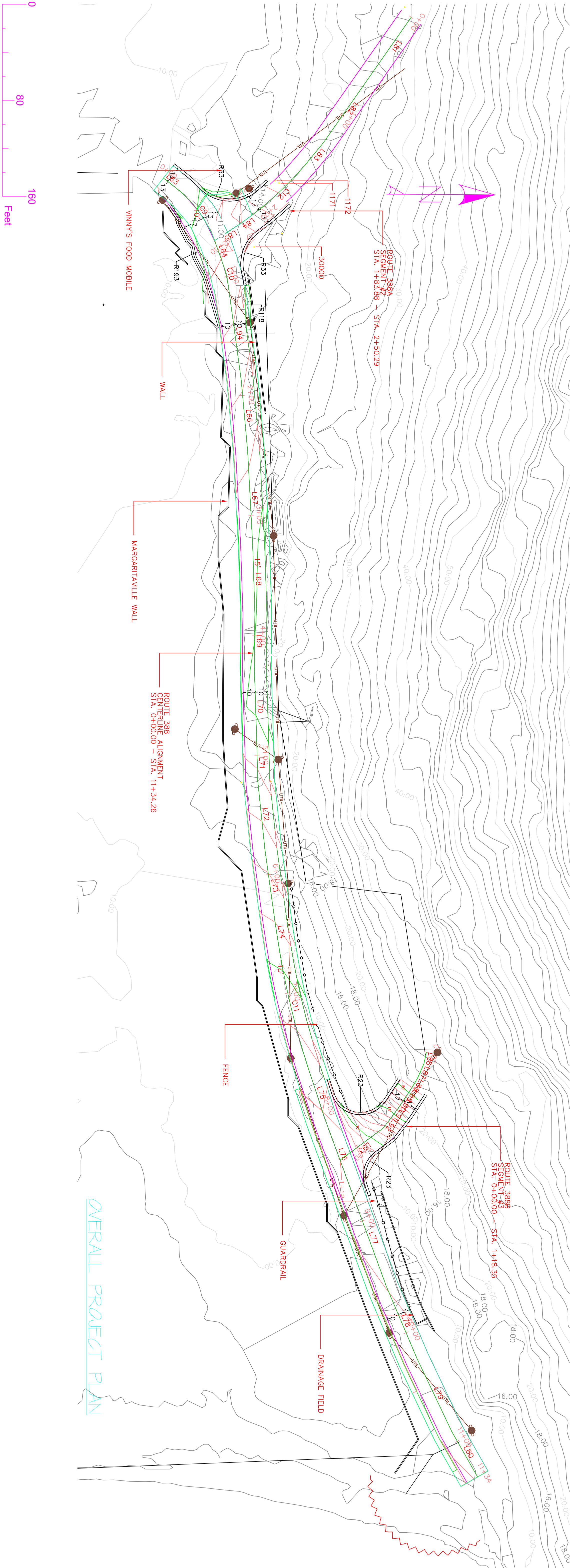
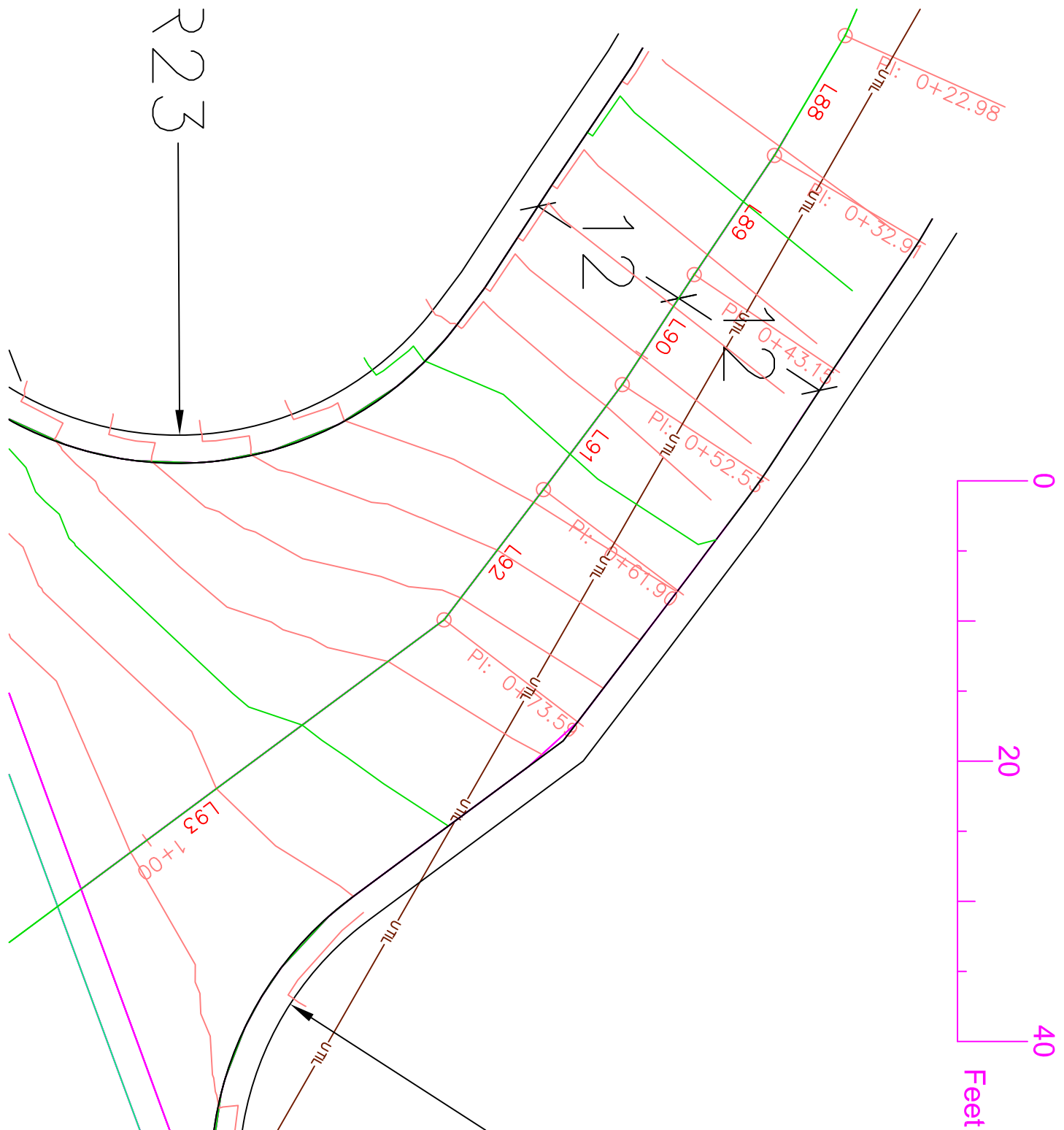
LINE TABLE: ALIGNMENT			
LINE #	LENGTH	DIRECTION	ALIGNMENT NAME
L81	53.14'	S54° 59' 31"E	388A Spring Boy Rd
L82	74.28'	S54° 59' 51"E	388A Spring Boy Rd
L83	20.30'	S50° 34' 35"E	388A Spring Boy Rd
L84	9.44'	S36° 35' 40"E	388A Spring Boy Rd
L85	26.43'	S33° 09' 17"E	388A Spring Boy Rd

Curve Table: Alignments			
CURVE #	RADIUS	LENGTH	DELTA ANGLE
C12	273'	66.71'	S43° 35' 08"E

LINE TABLE: ALIGNMENT			
LINE #	LENGTH	DIRECTION	ALIGNMENT NAME
L63	13.43'	N38° 16' 56"E	Route 388 Alignment
L64	17.20'	N70° 24' 24"E	Route 388 Alignment
L94	78.19'	N82° 12' 02"E	Route 388 Alignment
L66	59.55'	N84° 51' 46"E	Route 388 Alignment
L67	77.90'	N86° 56' 50"E	Route 388 Alignment
L68	56.74'	N88° 07' 13"E	Route 388 Alignment
L69	46.10'	S89° 29' 12"E	Route 388 Alignment
L70	63.41'	N88° 11' 15"E	Route 388 Alignment
L71	29.92'	N88° 32' 04"E	Route 388 Alignment
L72	57.16'	N84° 02' 42"E	Route 388 Alignment
L73	62.96'	N82° 03' 17"E	Route 388 Alignment
L74	15.47'	N81° 08' 37"E	Route 388 Alignment
L75	43.04'	N71° 49' 57"E	Route 388 Alignment
L76	65.79'	N69° 48' 23"E	Route 388 Alignment
L77	82.80'	N69° 51' 57"E	Route 388 Alignment
L78	65.44'	N66° 57' 31"E	Route 388 Alignment
L79	67.33'	N64° 31' 40"E	Route 388 Alignment
L80	43.48'	N60° 20' 36"E	Route 388 Alignment

Curve Table: Alignments			
CURVE #	RADIUS	LENGTH	DELTA ANGLE
C9	102'	57.15'	N54° 20' 40"E
C10	105'	21.66'	N76° 18' 13"E
C11	674'	109.55'	N76° 29' 17"E

LINE TABLE: ALIGNMENT			
LINE #	LENGTH	DIRECTION	ALIGNMENT NAME
L86	10.06'	S77° 46' 48"E	388B Main Alignment -- (1)
L87	12.92'	S65° 56' 54"E	388B Main Alignment -- (1)
L88	9.93'	S59° 28' 52"E	388B Main Alignment -- (1)
L89	10.25'	S56° 01' 42"E	388B Main Alignment -- (1)
L90	9.38'	S56° 49' 05"E	388B Main Alignment -- (1)
L91	9.37'	S53° 04' 23"E	388B Main Alignment -- (1)
L92	11.69'	S52° 38' 12"E	388B Main Alignment -- (1)
L93	44.75'	S36° 32' 45"E	388B Main Alignment -- (1)



DPW

DEPARTMENT OF PUBLIC WORKS

U.S.N.I.

DEPARTMENT OF PUBLIC WORKS

DIVISION OF ENGINEERING

ST. THOMAS, U.S. VIRGIN ISLANDS

USVI

388

COMMISSIONER OF P.W.D.

GUSTAV JAMES, P.E.

DEPUTY COMMISSIONER OF ENGINEERING

CHIEF ENGINEER

ASTON BOW EDDINGS, P.E.

DISTRICT ENGINEER

SUBMITTED BY:

DRAWN BY: J4

SCALE:

DATE: 6/6/2016

PLAN W/

LINE & CURVE DATA

DIVISION OF ENGINEERING

PROJECT NO.

ROAD FILE NAME

SHEET NO.

62 OF 19



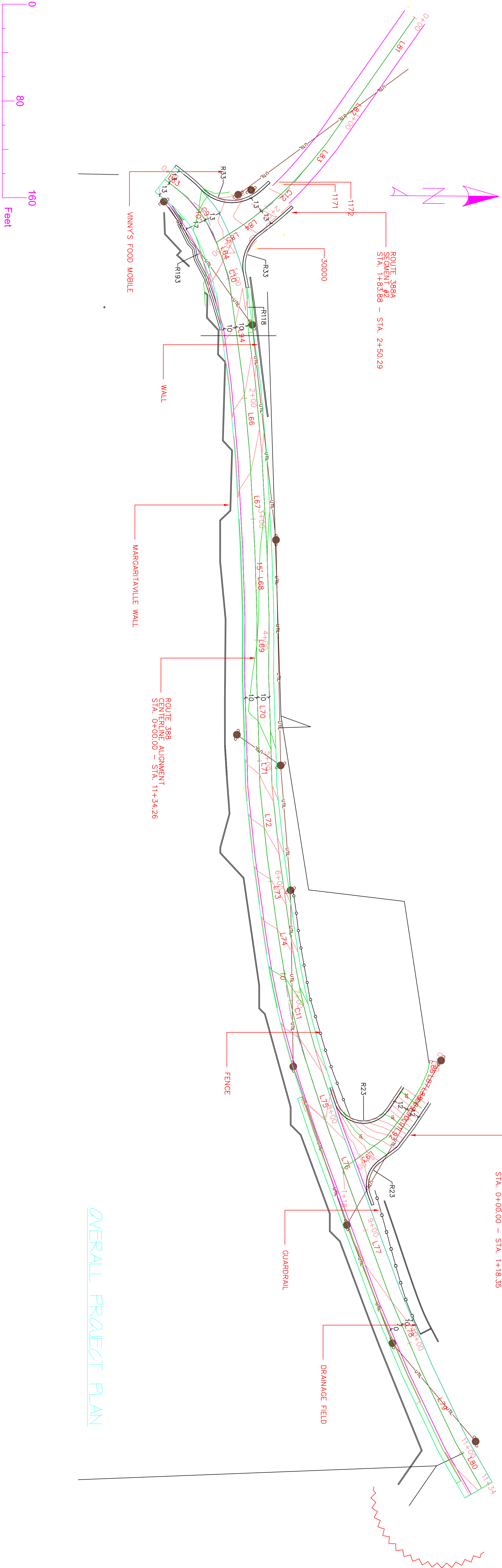
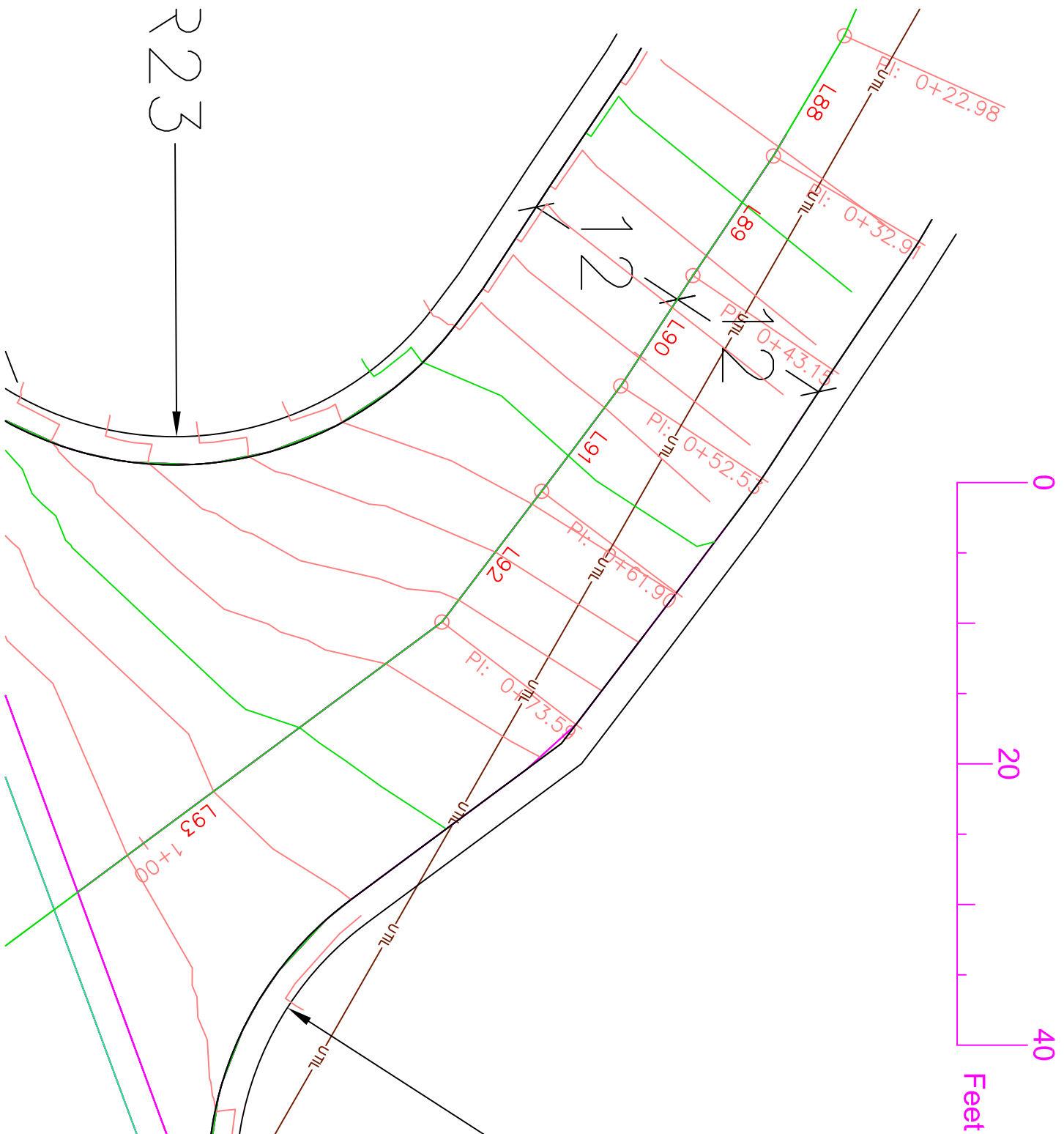
LINE TABLE: ALIGNMENT			
LINE #	LENGTH	DIRECTION	ALIGNMENT NAME
L81	53.14'	S54° 59' 31"E	388A Spring Boy Rd
L82	74.28'	S54° 59' 51"E	388A Spring Boy Rd
L83	20.30'	S50° 34' 35"E	388A Spring Boy Rd
L84	9.44'	S36° 35' 40"E	388A Spring Boy Rd
L85	26.43'	S33° 09' 17"E	388A Spring Boy Rd

Curve Table: Alignments			
CURVE #	RADIUS	LENGTH	ALIGNMENT NAME
C12	273'	66.71'	S43° 35' 08"E 388A Spring Boy Rd

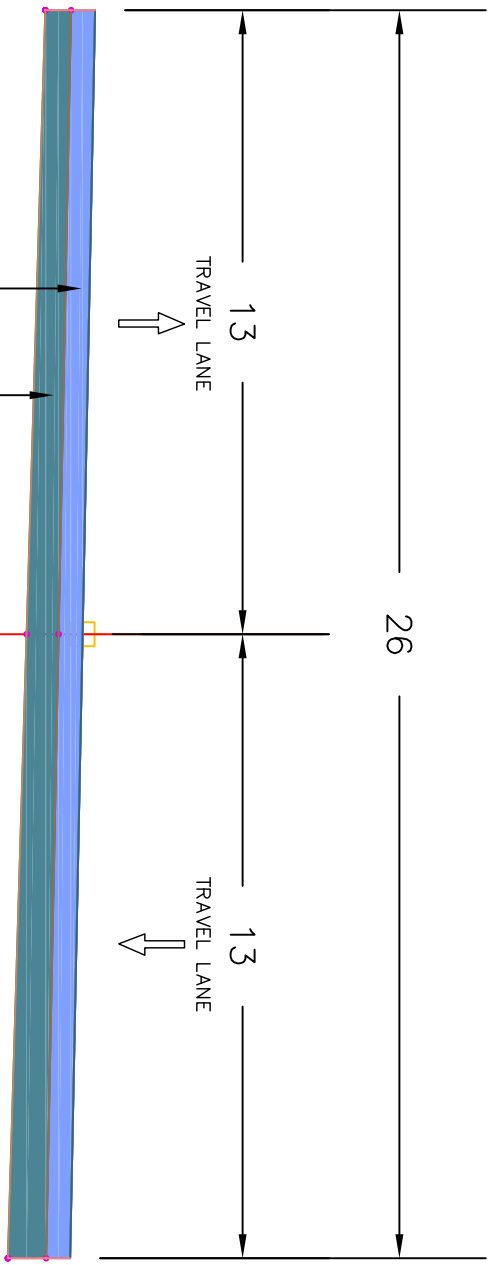
LINE TABLE: ALIGNMENT			
LINE #	LENGTH	DIRECTION	ALIGNMENT NAME
L63	13.43'	N38° 16' 56"E	Route 388 Alignment
L64	17.20'	N70° 24' 24"E	Route 388 Alignment
L94	78.19'	N82° 12' 02"E	Route 388 Alignment
L66	59.55'	N84° 51' 46"E	Route 388 Alignment
L67	77.90'	N86° 56' 50"E	Route 388 Alignment
L68	56.74'	N88° 07' 13"E	Route 388 Alignment
L69	46.10'	S89° 29' 12"E	Route 388 Alignment
L70	63.41'	N88° 11' 15"E	Route 388 Alignment
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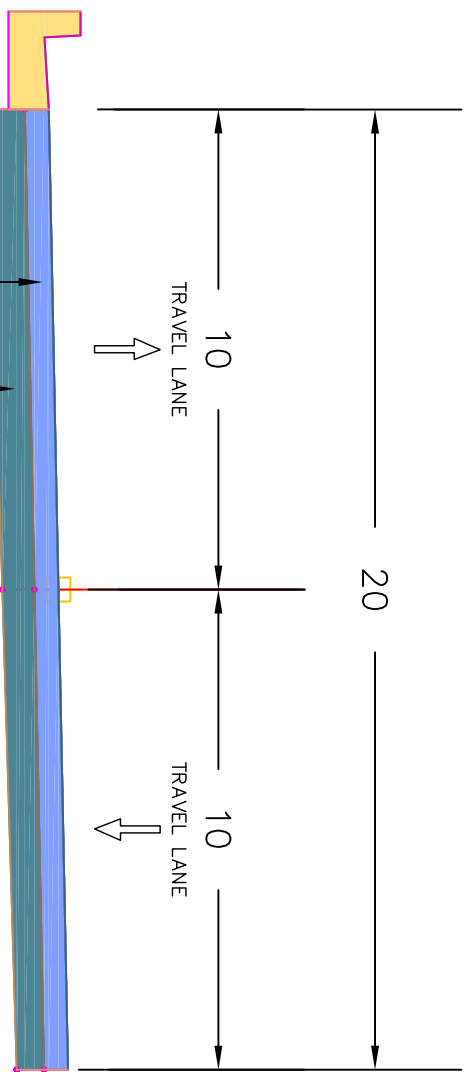
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L91	9.37'	S53° 04' 23"E	388B Main Alignment - (1)
L92	11.69'	S52° 38' 12"E	388B Main Alignment - (1)
L93	44.75'	S36° 32' 45"E	388B Main Alignment - (1)



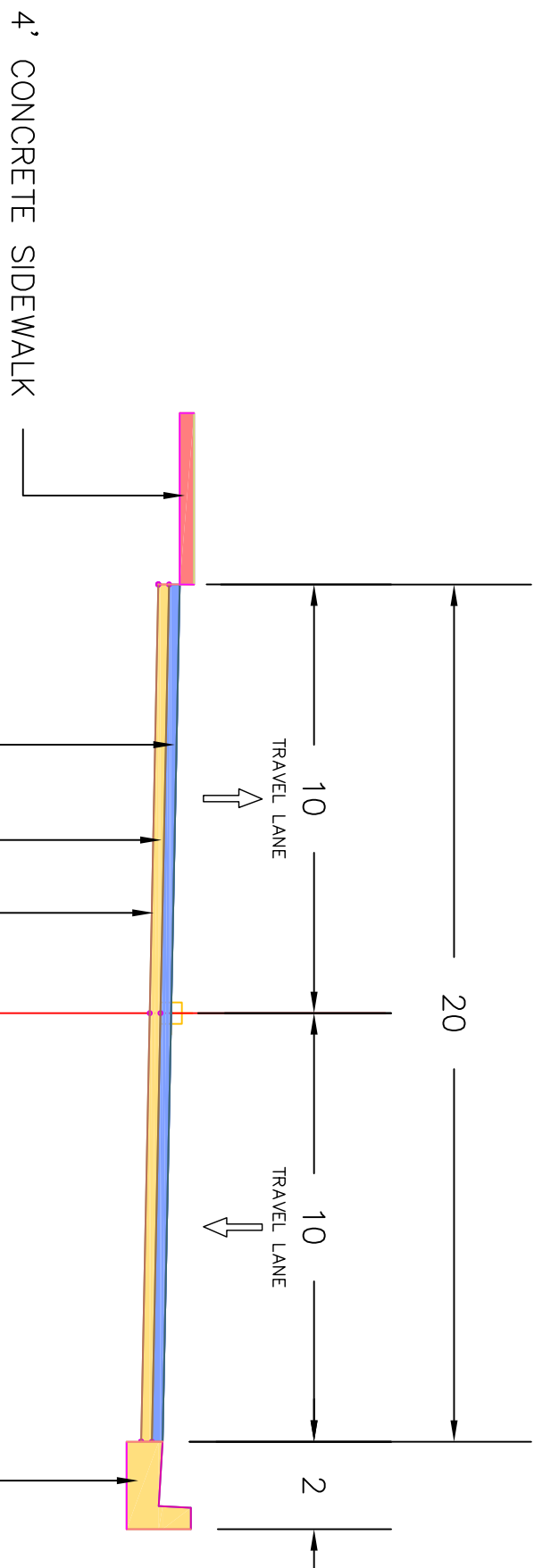
OVERALL PROJECT PLAN



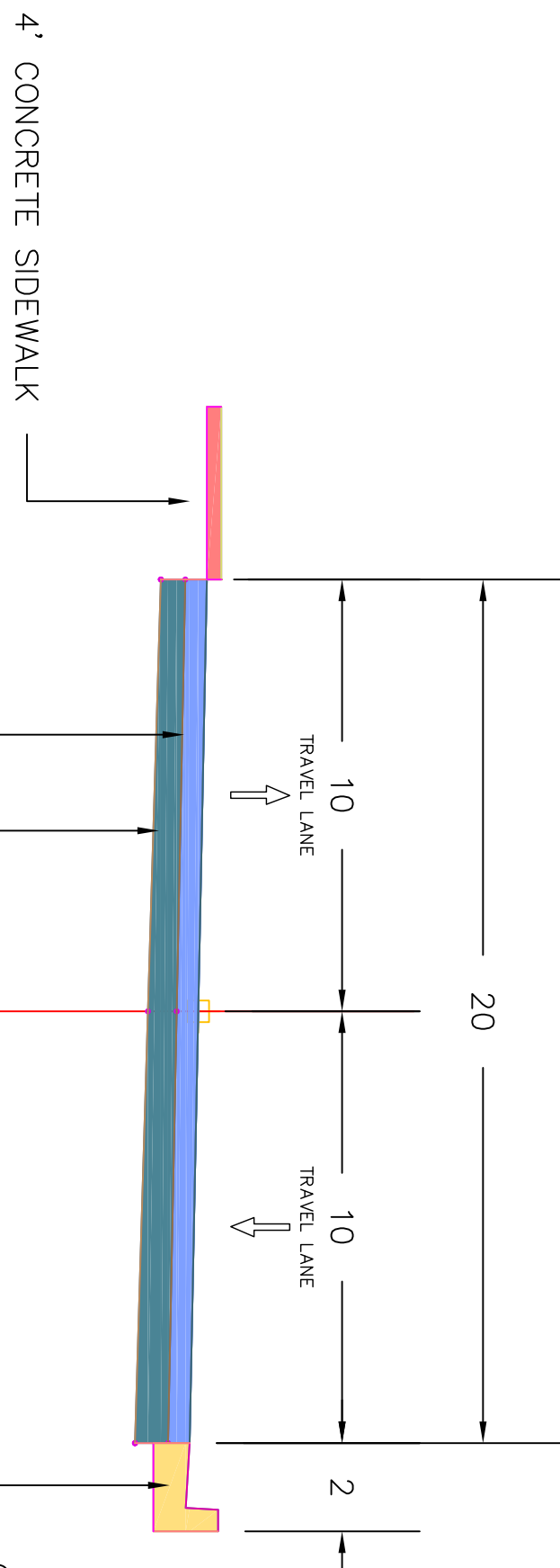
AGGREGATE BASE, GRADING C  
6" REINFORCED CONCRETE  
STA. 0+00.00 – 1+09.37  
ROUTE 388  
SCALE: 3" = 1'-0"



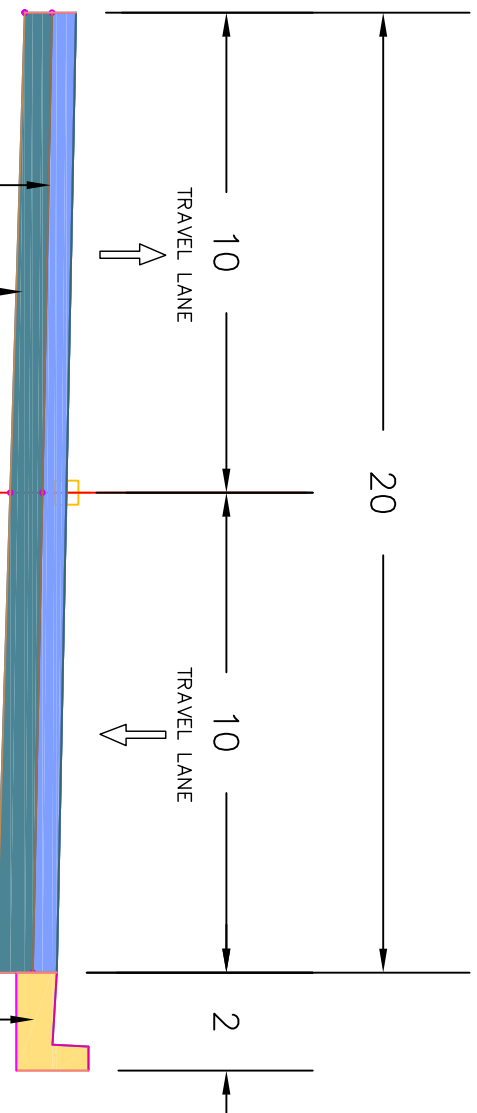
AGGREGATE BASE, GRADING C  
6" REINFORCED CONCRETE  
STA. 1+83.88 – 2+50.29  
ROUTE 388  
SCALE: 3" = 1'-0"



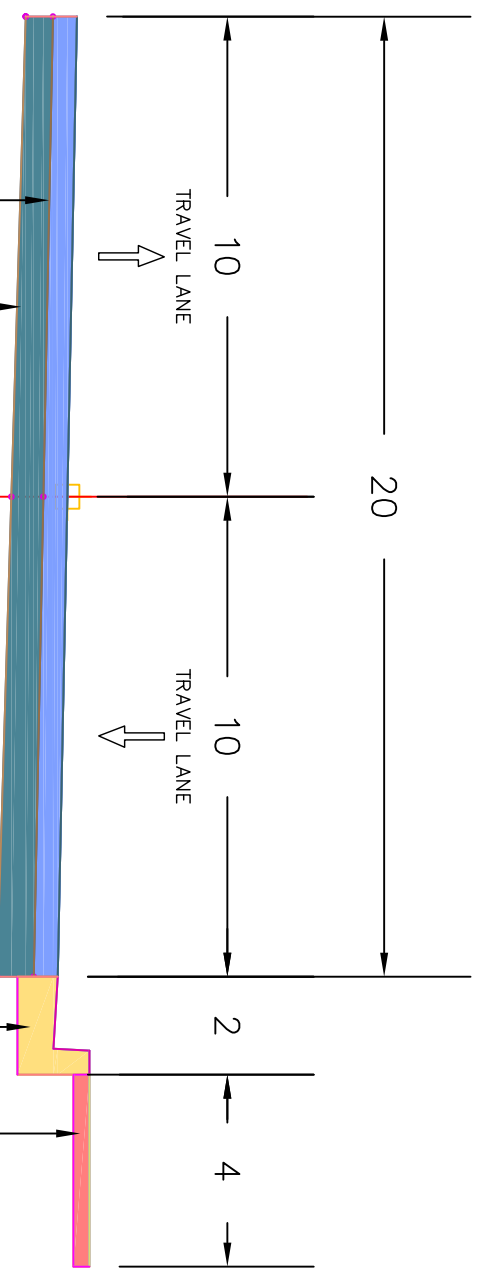
4' CONCRETE SIDEWALK  
CURB & GUTTER  
EXISTING H.A.M.  
1" LEVELING AND WEDGING, CL. B., GR. B,  
AFTER 2" MILLING  
2" HOT ASPHALT CONCRETE PAVEMENT  
CLASS B, GRADE D  
STA. 1+09.37 – 7+66.39  
ROUTE 388—OPTIONZ  
SCALE: 3" = 1'-0"



AGGREGATE BASE, GRADING C  
6" REINFORCED CONCRETE  
STA. 1+09.37 – 7+66.39  
ROUTE 388  
SCALE: 3" = 1'-0"



AGGREGATE BASE, GRADING C  
6" REINFORCED CONCRETE  
STA. 0+00.00 – 1+18.35  
ROUTE 388  
SCALE: 3" = 1'-0"



AGGREGATE BASE, GRADING C  
6" REINFORCED CONCRETE  
STA. 7+66.39 – 11+34.26  
ROUTE 388  
SCALE: 3" = 1'-0"





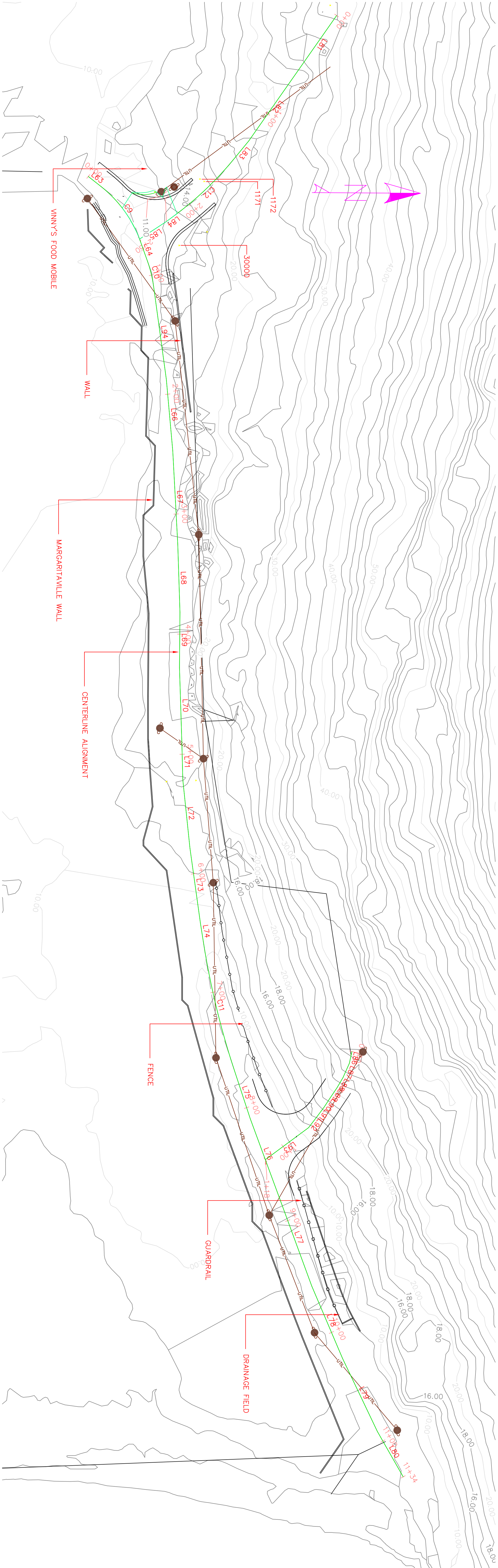
POINT TABLE				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
1171	22.83'	6088355.32	908525.52	ind nl
1172	23.26'	6088356.79	908527.48	ind pk
30000	21.10'	6088356.03	908580.75	pk-nl.set

EXISTING CONDITIONS NOTES:

- REFER TO DRAWING G1 FOR NOTES, ABBREVIATIONS AND LEGEND.
- THE SURFACE FEATURES AND TOPOGRAPHY SHOWN ARE THE RESULT OF AN ON THE GROUND SURVEY CONDUCTED BETWEEN JANUARY AND JUNE 2016.
- HORIZONTAL DATUM: ZONE CODE CS PR83F, NAD 83  
PR/V1, PROJECTION—LM
- VERTICAL DATUM: NAVD88
- SUBJECT PR DESIGNATION:  
PER FLOOD INSURANCE RATE MAP 7800000014G
- BEARINGS SHOWN ON THIS SURVEY ARE BASED ON FOUND DATA IN THE FIELD.
- THE COMPLETED RIGHT OF WAY INFORMATION SHOWN WAS DEVELOPED FROM CURRENT DEEDS OF RECORDS AND PHYSICAL EVIDENCE FOUND. CONFLICTS AND ERRORS WITHIN THE SURVEY PLATS, INSUFFICIENT FIELD DATA, AND ERRONEOUS GEOMETRY PROHIBIT BOUNDARY CLOSURE. ADDITIONAL RIGHTS MAY EXIST BEYOND THE LIMITS OF THE RIGHT OF WAY SHOWN. CONTRACTOR TO PERFORM BOUNDARY VERIFICATION BEFORE PROCEEDING WITH WORK.
- THE UTILITIES SHOWN HAVE BEEN COMPILED IN PART FROM FIELD LOCATION. THE LOCATION OF UNDERGROUND UTILITIES SHOULD BE CONSIDERED AND SHOULD BE FIELD VERIFIED PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITIES.

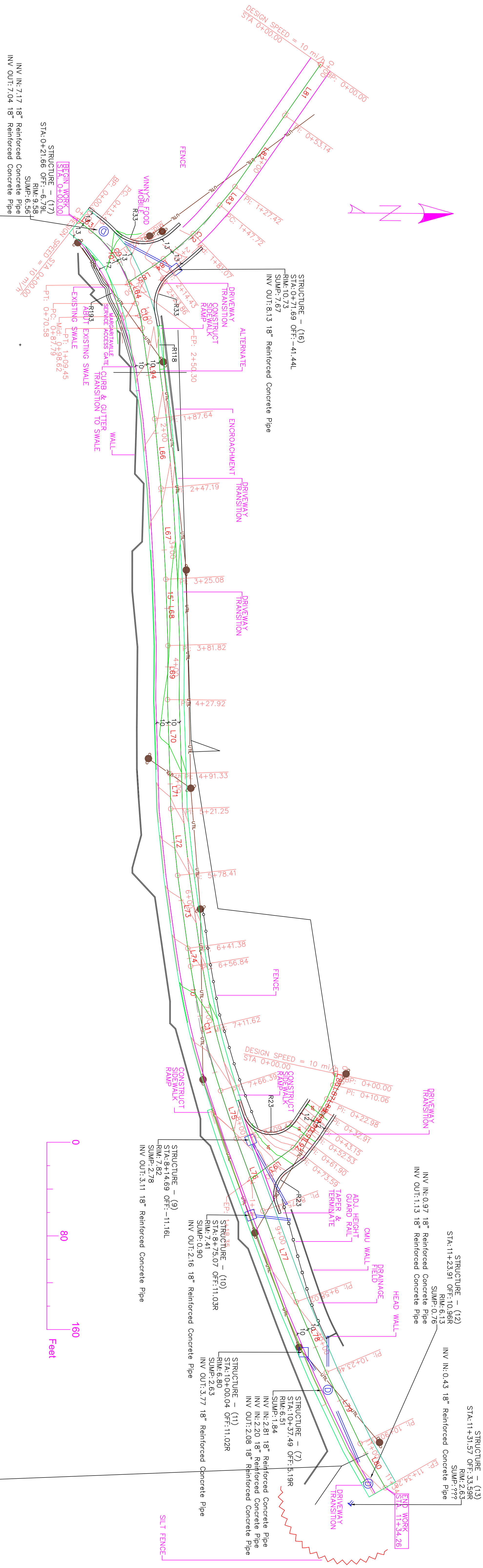
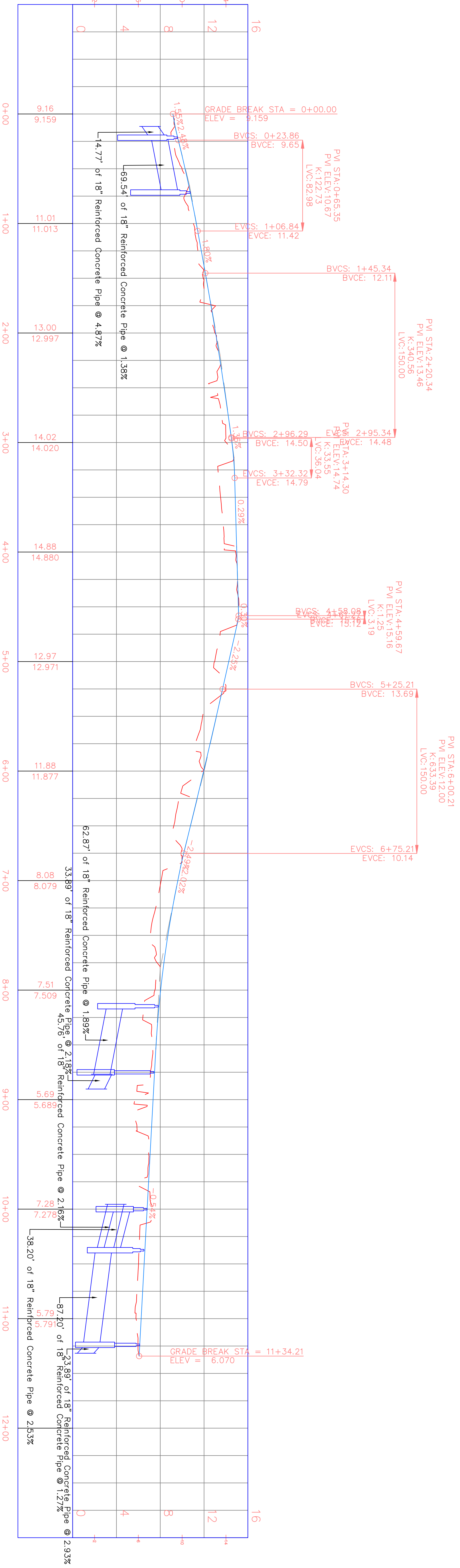
REFERENCE MAPS.

A9-292-T81  
D9-1589-T80  
G9-1542-T70  
D9-997-T71





PROFILE









EROSION CONTROL NOTES:

GENERAL NOTES:

1. ALL WORK ASSOCIATED WITH TEMPORARY EROSION CONTROL WILL BE INCLUDED IN THE CONTRACTORS LUMP SUM BID PRICE.
2. ALL EROSION CONTROL MEASURES SHALL CONFORM TO THE GUIDELINES AND REQUIREMENTS PROVIDED IN THE VIRGIN ISLANDS ENVIRONMENTAL PROTECTION HANDBOOK, 2002. THE HANDBOOK MAY BE DOWNLOADED FROM THE WEBSITE: <http://www.virginislands.gov.vi/Handbook> OR PURCHASED FROM THE UNIVERSITY OF THE VIRGIN ISLANDS, COOPERATIVE EXTENSION SERVICE.

3. BEFORE ANY EARTH MOVING ACTIVITIES AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED. THE SMALLEST PRACTICAL AREA OF LAND (5 ACRES MAXIMUM) SHOULD BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT. WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE EXPOSURE SHOULD BE KEPT TO A MAXIMUM OF 72 HOURS BEFORE APPLYING TEMPORARY OR PERMANENT EROSION CONTROL MEASURES. ANYTIME EROSION CONTROL MEASURES ARE APPLIED, THE EXPOSURE SHOULD BE MAXIMALLY LIMITED TO 72 HOURS. FOOD PLANT WASTEWATER AND SWALES ARE REQUIRED TO BE STABILIZED PRIOR TO DIRECT RECEIPT OF ANY FLOW.

4. INSTALL SILT FENCE WHERE SHOWN PRIOR TO START OF CONSTRUCTION. INSTALL EROSION PROTECTION AROUND ALL EXISTING DRAINAGE STRUCTURES ADJACENT TO PROJECT. DO NOT REMOVE SILT BARRIERS UNTIL DISTURBED AREAS ARE FULLY COVERED WITH TURF OR OTHER PERMANENT EROSION CONTROL MEASURES. ALL DRAINAGE AREAS MUST BE STABILIZED PRIOR TO ANY OTHER DRAINAGE SYSTEM WORK, INCLUDING DITCH AND SWALE EXCAVATION.

5. EROSION AND SEDIMENT CONTROL PRACTICES INCLUDE THE USE OF THE FOLLOWING: SILT FENCE BARRIERS, PERMANENT DETENTION/SEDIMENTATION BASIN, GRASS AND/OR ROCK LINED SWALES, DIVERSIONS WITH LEVEL SPREADERS.

6. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH THE REQUIREMENTS RELAYED TO THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT. THE PERMITTING AGENCY HAS ISSUED NOTICE OF PROTECTION AGENCY. THIS PROJECT MAY BE SUBJECT NOTICE OF INTENT, NOTICE OF TERMINATION, AND OTHER PROJECT RECORDS BY THE CONTRACTOR AS REQUIRED.

7. SEE PLANS FOR ADDITIONAL EROSION CONTROL MEASURES WHICH MAY BE REQUIRED.

VEGETATIVE MEASURES

8. TOPSOIL STOCKPILING, TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR LATER USE ON CRITICAL AREAS AND ALL OTHER AREAS TO BE SEED. THE STOCKPILE WILL NOT BE COMPACTED AND SHALL BE STABILIZED AGAINST EROSION WITH TEMPORARY SEEDING.

TEMPORARY SEEDING:

9. BEDDING – REMOVE STONES AND TRASH THAT WILL INTERFERE WITH SEEDING THE AREA. WHERE FEASIBLE, TILL THE SOIL TO A DEPTH OF ABOUT 3" TO PREPARE SEED BED AND MIX THE FERTILIZER INTO THE SOIL.

10. FERTILIZER – FERTILIZER SHOULD BE UNIFORMLY SPREAD OVER THE AREA PRIOR TO BEING TILLED INTO THE SOIL. A 10-10-10 MIX OF FERTILIZER SHOULD BE APPLIED AT A RATE OF 300 POUNDS PER ACRE (OR 7 POUNDS PER 1,000 S.F.).

11. MULCHING – WHERE IT IS IMPRACTICAL TO INCORPORATE FERTILIZER AND SEED INTO MOSTLY SOIL, THE SEEDING AREA SHALL BE MULCHED TO PROTECT THE SEED. MULCH SHOULD BE APPLIED AT A RATE OF 1,000 S.F. SHOULD BE APPLIED AT A RATE OF 70 TO 90 LBS. PER 1,000 S.F.

STRUCTURAL MEASURES

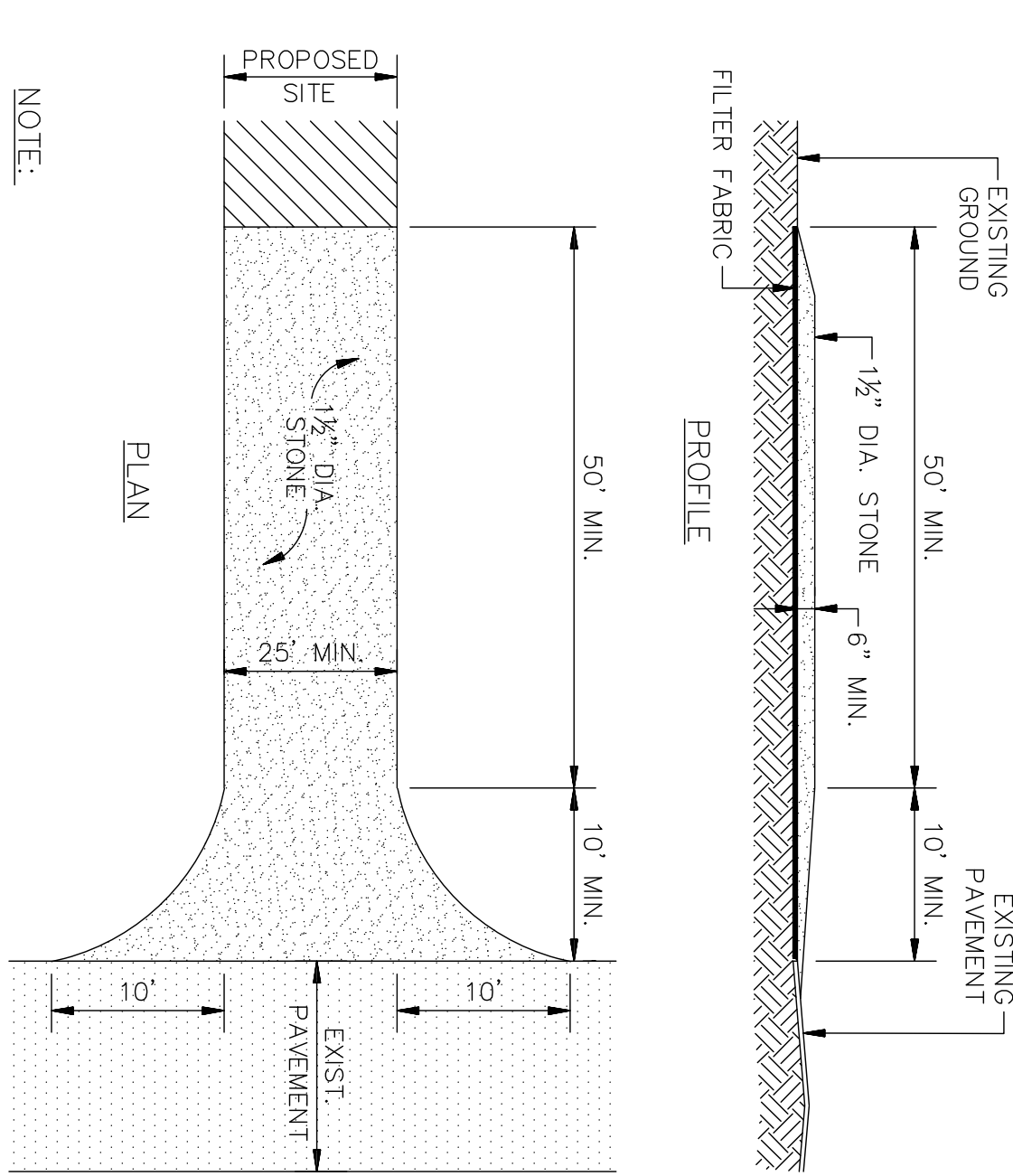
12. SILT FENCES: SILT FENCES ARE TO BE INSTALLED IN THE AREAS SHOWN ON THE PLAN. THEY ARE INTENDED PRIMARILY TO INTERCEPT AND FILTER SMALL VOLUMES OF "SHEET FLOWING" RUNOFF, OR AS SEDIMENT TRAPS IN SMALL SWALES. SILT FENCES WILL FUNCTION 6 MONTHS OR LONGER IF KEPT FREE OF SEDIMENT ACCUMULATIONS (SEE DETAILS FOR ADDITIONAL INFORMATION).

13. SWALES: TEMPORARY AND/OR PERMANENT SWALES ARE TO BE INSTALLED AS SHOWN ON THE PLAN. SWALES ARE USED TO CONVERT SHEET FLOW TO CHANNEL FLOW AND CONVEY THE RUNOFF TO A PERMANENT CHANNEL, STORM DRAIN, OR DETENTION/SEDIMENT STRUCTURE. SWALES ARE INTENDED TO INTERCEPT RUNOFF AND DIVERT IT FROM AN EXPOSED OR NEWLY SEEDS SLOPE TOWARD AN ACCEPTABLE OUTLET OR TO REDUCE THE VELOCITY OF RUNOFF FLOWING DOWN FROM A DRAINAGE AREA. TEMPORARY GRADE STABILIZATION STRUCTURES ARE TO BE INSTALLED DURING CONSTRUCTION WITHIN SWALES TO REDUCE THE VELOCITY OF CONCENTRATED STORMWATER FLOWS. THESE STRUCTURES MAY BE CONSTRUCTED OF ROCK OR LIMBER. STONE STRUCTURES, WHEN USED, SHALL CONSIST OF 2-3' HIGH STONE.
14. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED OF 2-3' HIGH STONE ACROSS THE FULL WIDTH OF THE VEHICLE INGRESS EGRESS AREA. THE STONE PAD SHOULD BE AT LEAST 50 FEET LONG, 25 FEET WIDE AND AT LEAST 6 INCHES THICK. ADDITIONAL STONE MAY HAVE TO BE ADDED PERIODICALLY TO MAINTAIN THE PROPER FUNCTIONING OF THE PAD.

MAINTENANCE

DURING THE PERIOD OF CONSTRUCTION AND/OR UNTIL LONG TERM VEGETATION IS ESTABLISHED:

15. SEEDS AREAS WILL BE FERTILIZED AND WILL BE SEEDS AS NECESSARY TO INSURE VEGETATIVE ESTABLISHMENT.
16. ADDITIONAL STONE MAY HAVE TO BE ADDED TO THE CONSTRUCTION ENTRANCE, ROCK LINED SWALES, ETC., PERIODICALLY TO MAINTAIN THE PROPER FUNCTIONING OF THE EROSION CONTROL STRUCTURE.
17. ALL DIVERSION CHANNELS AND SWALES WILL BE CHECKED WEEKLY AND REPAIRED WHEN NECESSARY UNTIL ADEQUATE VEGETATION IS ESTABLISHED.
18. ALL SILT FENCES WILL BE CHECKED WEEKLY. NECESSARY REPAIRS WILL BE MADE TO CORRECT UNDERMINING OR DETERIORATION OF THE BARRIER.

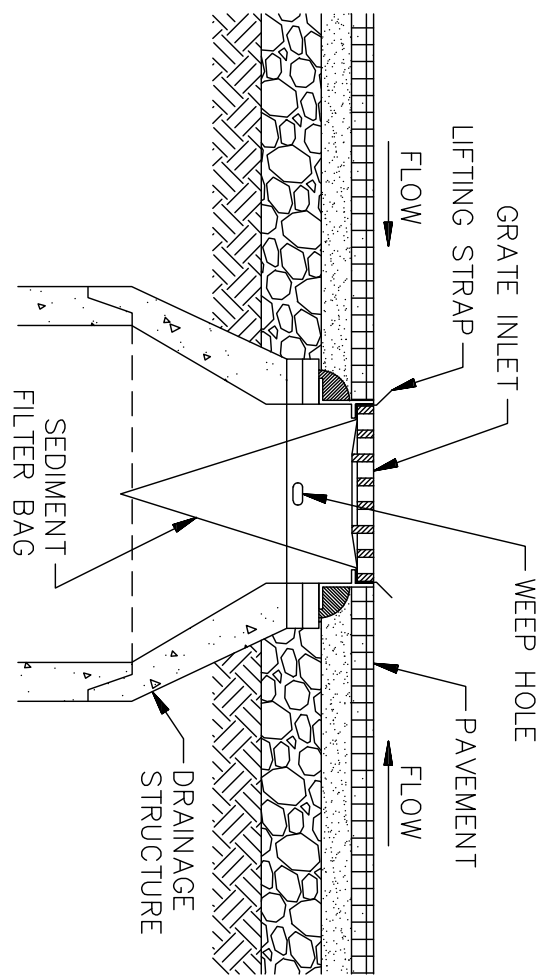


NOTE:

TO BE CONSTRUCTED AT STAGING OR STOCKPILE AREAS AS REQUIRED.

1 STABILIZED CONSTRUCTION ENTRY DETAIL

C 3 SCALE: NONE

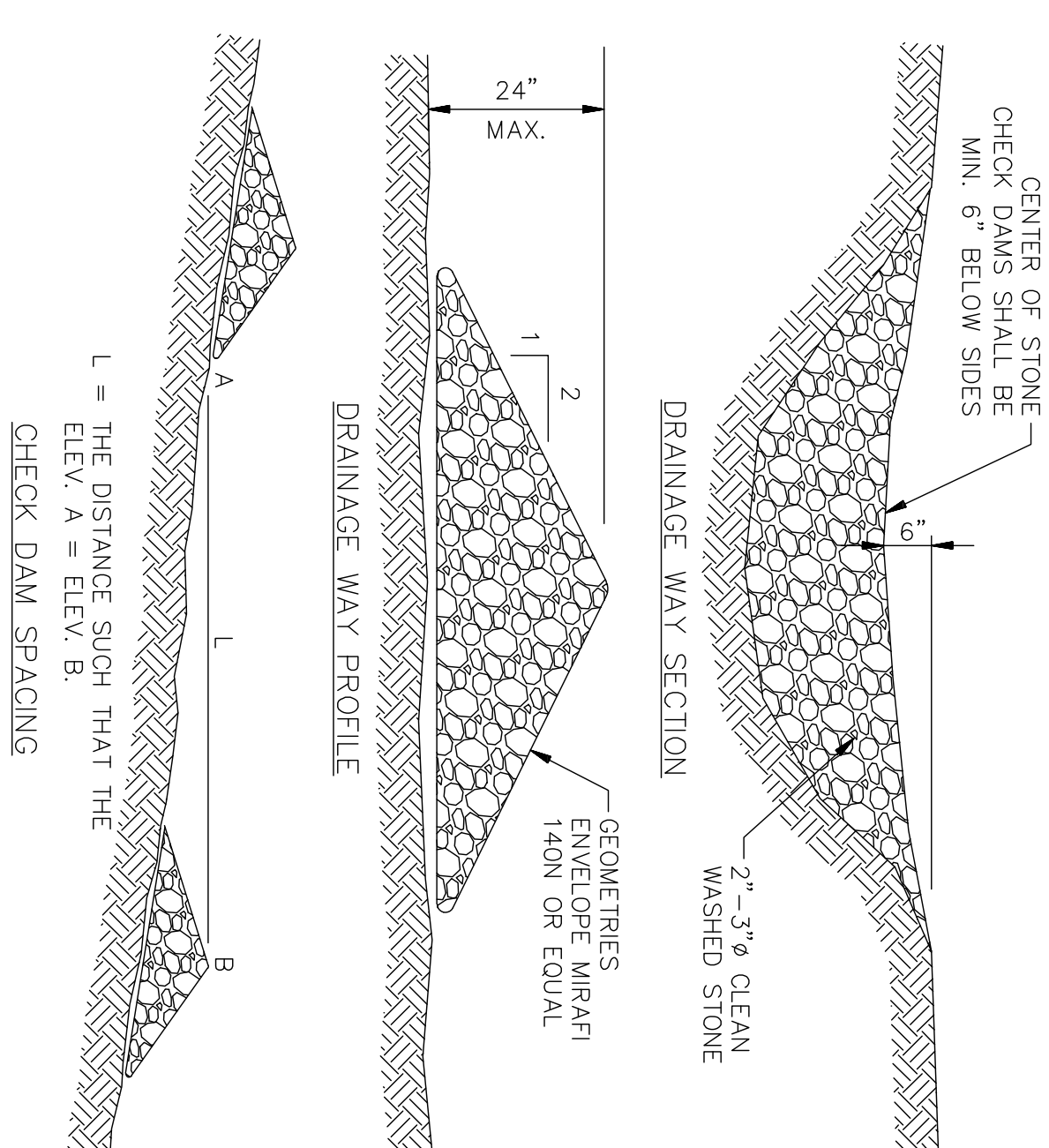


INLET PROTECTION NOTES:

1. THE SEDIMENT FILTER BAG SHALL BE DESIGNED FOR CATCH BASIN INLET PROTECTION. FILTER FABRIC IS NOT AN ACCEPTABLE SEDIMENT FILTER BAG.
2. REMOVE DRAINAGE INLET GRAPE AND PLACE SEDIMENT FILTER BAG IN POSITION OR FOLLOW MANUFACTURER'S RECOMMENDATIONS. LIFTING STRAPS SHALL BE EXPOSED AND READY FOR MAINTENANCE PROCEDURES.
3. INSPECT SEDIMENT FILTER BAG WEEKLY AND AFTER EVERY RAINFALL EVENT.
4. REPLACE, CLEAN OR REMOVE SEDIMENT FILTER BAG AS DIRECTED.

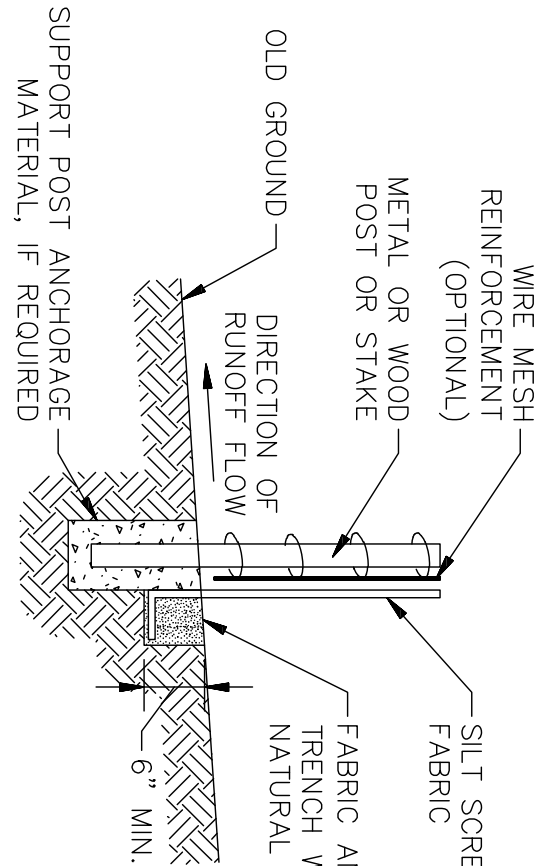
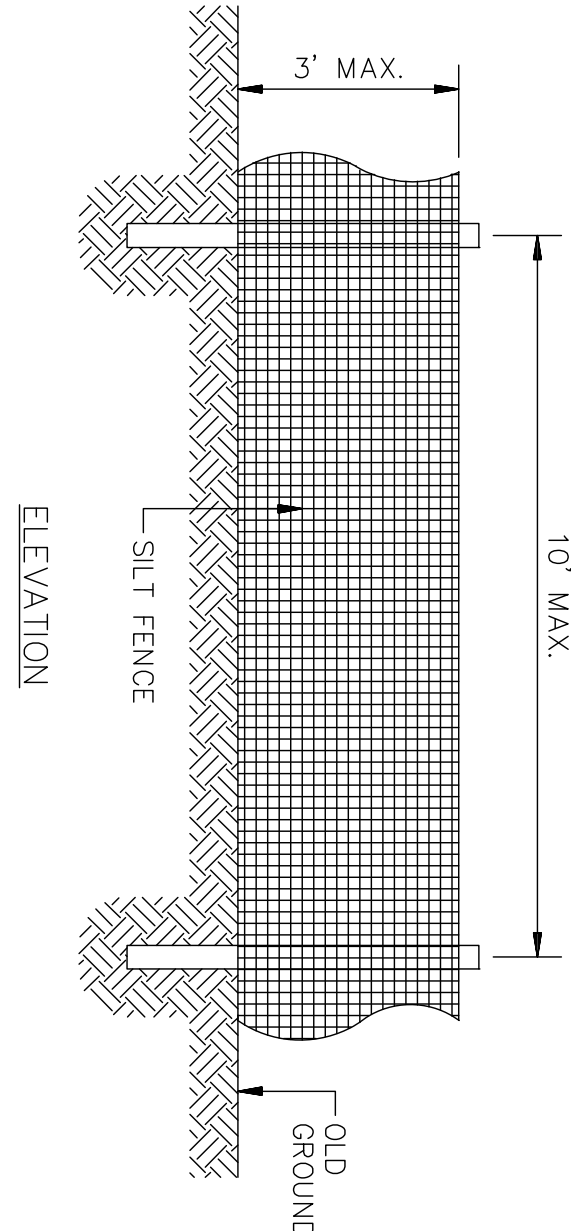
2 INLET PROTECTION DETAIL

C 3 SCALE: NONE



3 CHECK DAM SPACING

C 3 SCALE: NONE



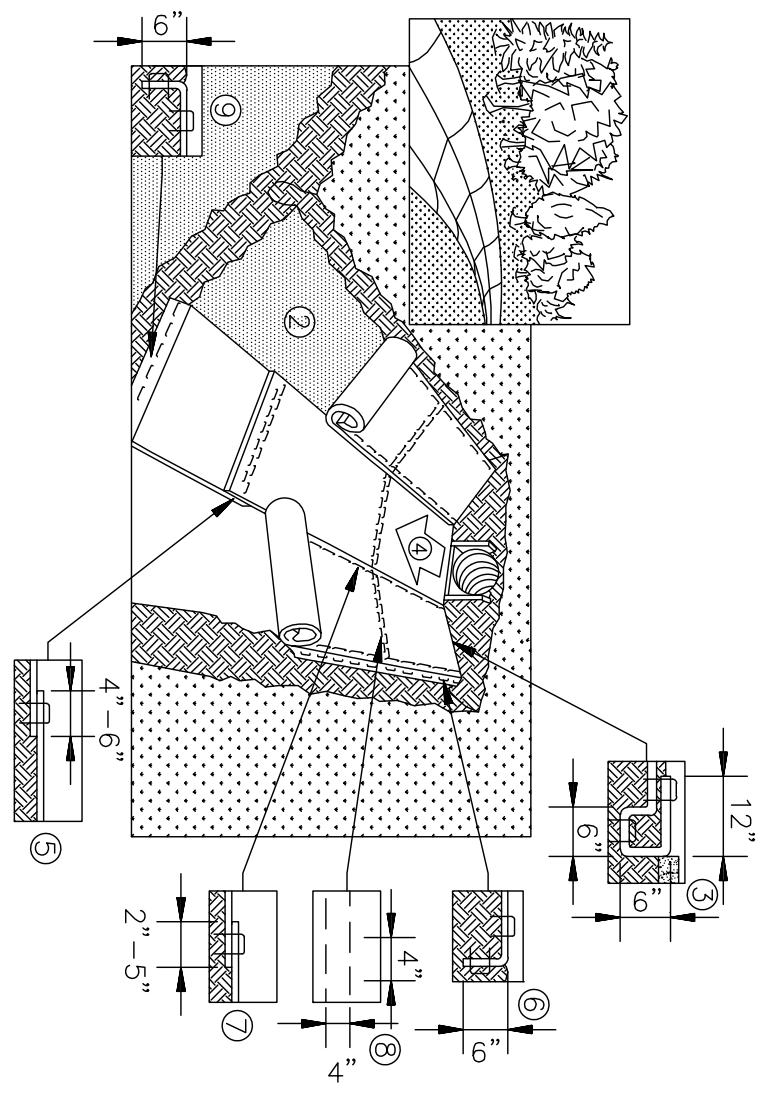
END VIEW

SILT FENCE NOTES:

1. SPACING OF FENCE POSTS NOT TO EXCEED 10'-0".
2. SILT FENCE SHALL BE INSTALLED BEFORE ANY EARTH REMOVAL OR EXCAVATION TAKES PLACE.
3. FILTER FABRIC TO BE FASTENED SECURELY TO POSTS WITH WIRE TIES OR STAPLES AT TOP, MIDPOINT AND BOTTOM.
4. OVERLAP BY 6", FOLD AND STAPLE ADJOINING SECTIONS OF FILTER FABRIC.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED, AND THE MATERIAL REMOVED WHEN 'BULGES' DEVELOP. DO NOT DEPOSIT THE MATERIAL NEAR WETLANDS OR WATERCOURSES.
6. FILTER FABRIC SHALL BE ENTRENCHED 6" MINIMUM BELOW EXISTING OR FINISHED GRADE.

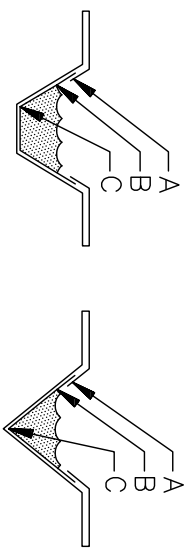
4 SILT FENCE EROSION CONTROL DETAIL

C 3 SCALE: NONE



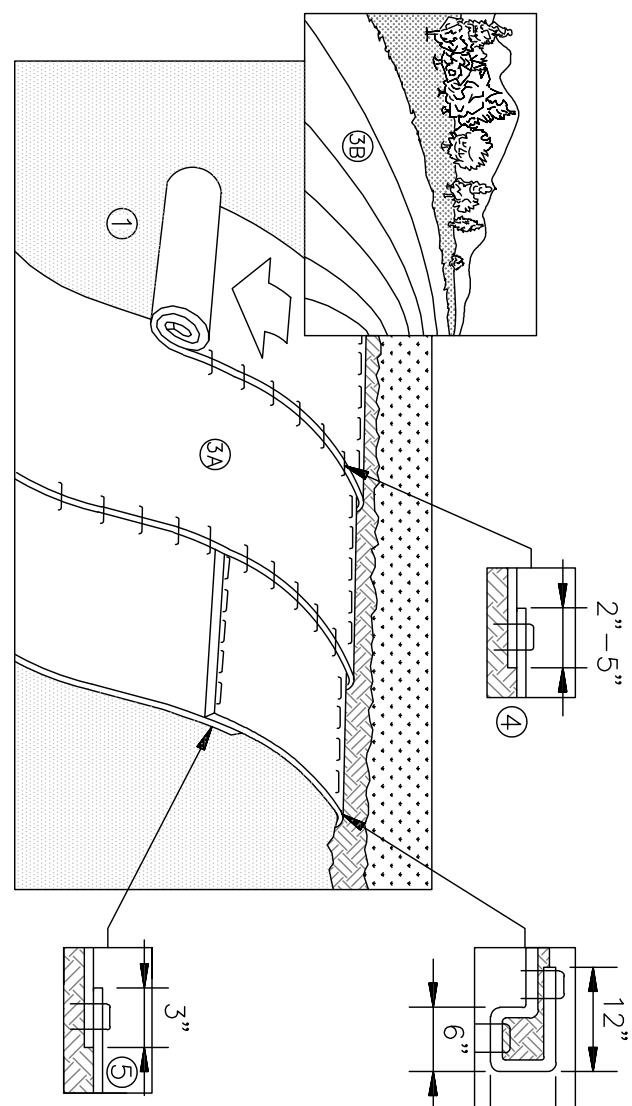
NOTES:

- CRITICAL POINTS
- A. PROTECTED AND SEAMS
- B. PROTECTED WATER LINE
- C. CHANNEL BOTTOM/SIDE SLOPE VERTICES
- HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.
- IN LOOSE SOIL CONDITIONS, THE USED OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS



6 CHANNEL EROSION CONTROL MATTING DETAIL

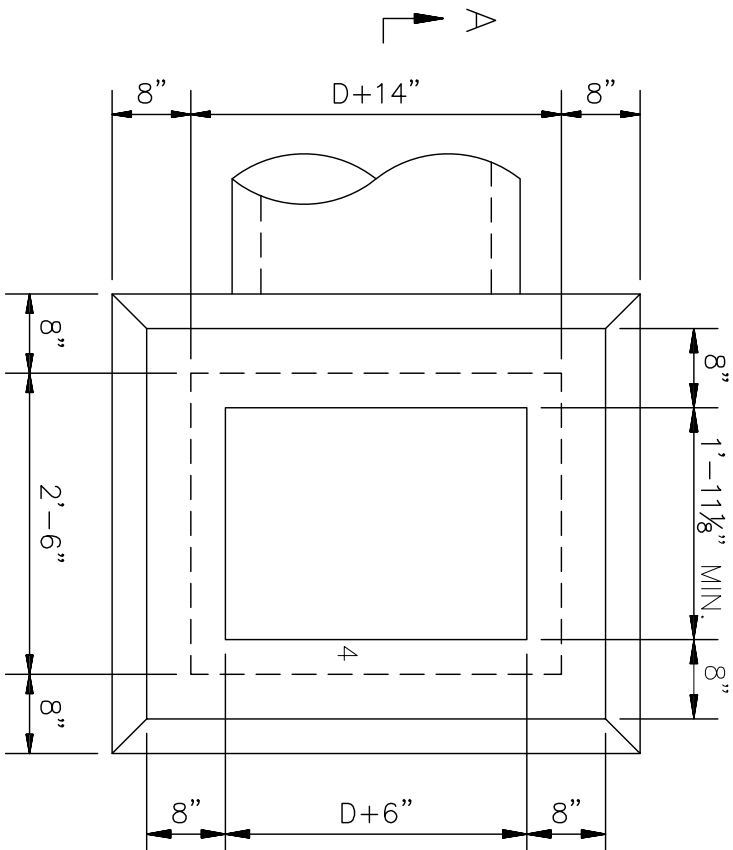
C 3 SCALE: NONE



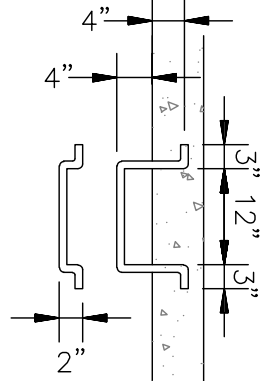
SLOPE PROTECTION INSTALLATION NOTES:

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY EXISTING STAPLES/STAKES. A DOUBLE ROW OF STAPLES/STAKES MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP TRENCH WITH APPROXIMATELY 12" APART. THE TRENCH SHOULD BE EXTENDED BEYOND THE TOP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE INSECURELY FASTENED TO SOIL AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STARTED WITH APPROXIMATELY 2'-5" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
6. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
7. INSTALL PRODUCT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
8. CHANNEL INSTALLATION NOTES:
  1. INSTALL PRODUCT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
  2. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED NOTE: WHEN USING GEL-O-SEED, DO NOT SEED PREPARED AREA. GEL-O-SEED MUST BE INSTALLED WITH THE PAPER SIDE DOWN.
  3. BEGIN AT THE TOP OF THE CHANNEL. BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
  4. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE PATTERN. WHEN USING GEL-O-SEED, DO NOT SEED PREPARED AREA. GEL-O-SEED MUST BE INSTALLED WITH THE PAPER SIDE DOWN.
  5. PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 2'-5" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE BLANKET BEING OVERLAPPED.
  6. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30' TO 40' INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER OVER ENTIRE WIDTH OF CHANNEL.
  7. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.





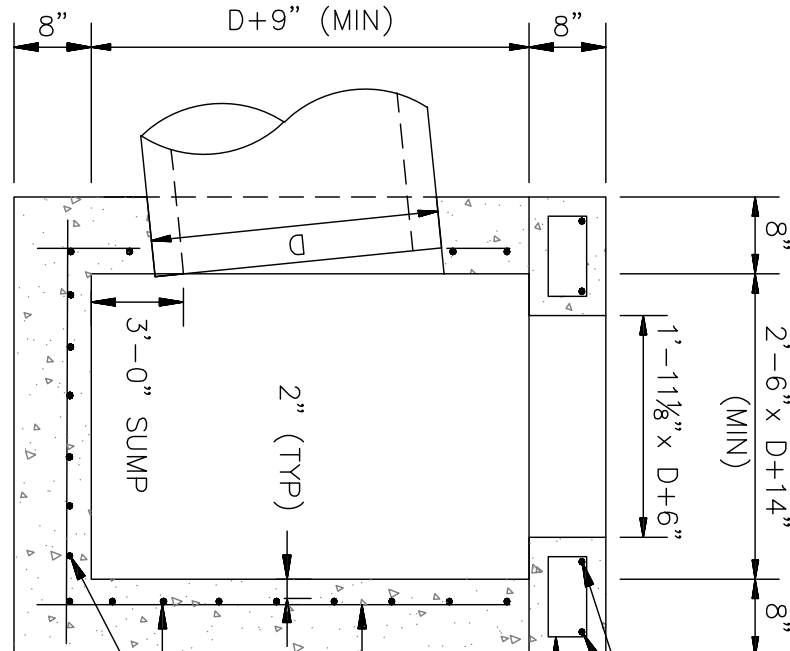
INLET, TYPE 6A



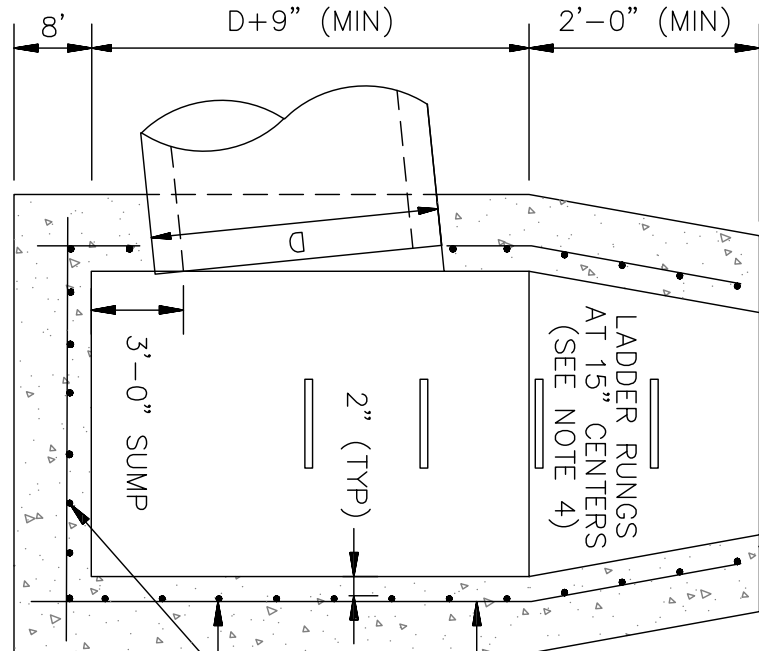
LADDER RUNG

INLET NOTES:

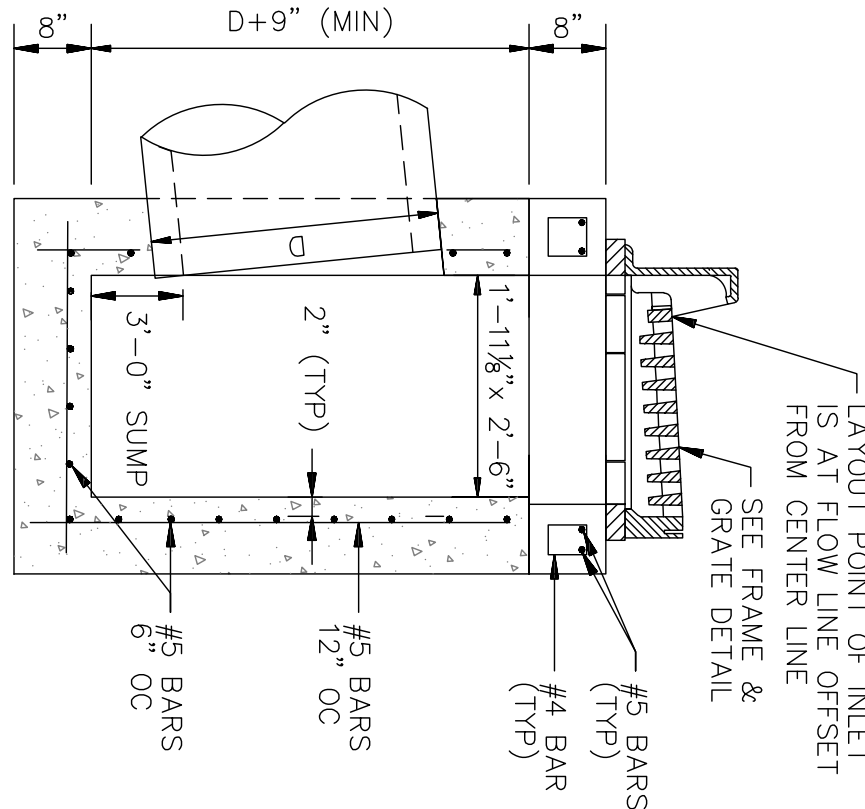
1. AT THE OPTION OF THE CONTRACTOR WALLS LESS THAN 4 FEET MAY BE OF CONCRETE AS SHOWN.
2. CONSTRUCT TYPE 6A-A INLETS FOR PIPES 24 INCH AND LARGER "LIMITED HEADROOM", UNLESS OTHERWISE DIRECTED BY THE CO.
3. CONSTRUCT INLETS PARALLEL TO THE ROADWAY CENTRELINE AND GRADE. ADAPT INLETS AS DIRECTED BY THE CO.
4. CONSTRUCT LADDER RUNGS OF  $f$  " ROUND OR  $\frac{3}{4}$ " ROUND OR SQUARE STEEL OR WROUGHT IRON WHERE DEPTH EXCEEDS 4'.
5. FOR FRAMES AND GRATING'S MINOR VARIATIONS IN DESIGN AND DIMENSIONS ARE PERMITTED TO ALLOW MANUFACTURERS STANDARDS. ALL GRATE ARE TO BE BICYCLE SAFE.
6. ORIENT CURVED VANES TOWARD DIRECTION OF STORMWATER FLOW. IN A SWAMP CONDITION, ORIENTATION OF CURVED VANES CAN BE EITHER DIRECTION. CONTRACTOR IS RESPONSIBLE FOR CORRECT GRATE ORIENTATION TOWARDS STORMWATER FLOW.
7. CONSTRUCT TYPE 6A-A METAL FRAME AND GRATING FOR 6" REVEAL, UNLESS OTHERWISE DIRECTED BY THE CO.



SECTION A-A  
LIMITED HEADROOM



SECTION A-A  
AMPLE HEADROOM

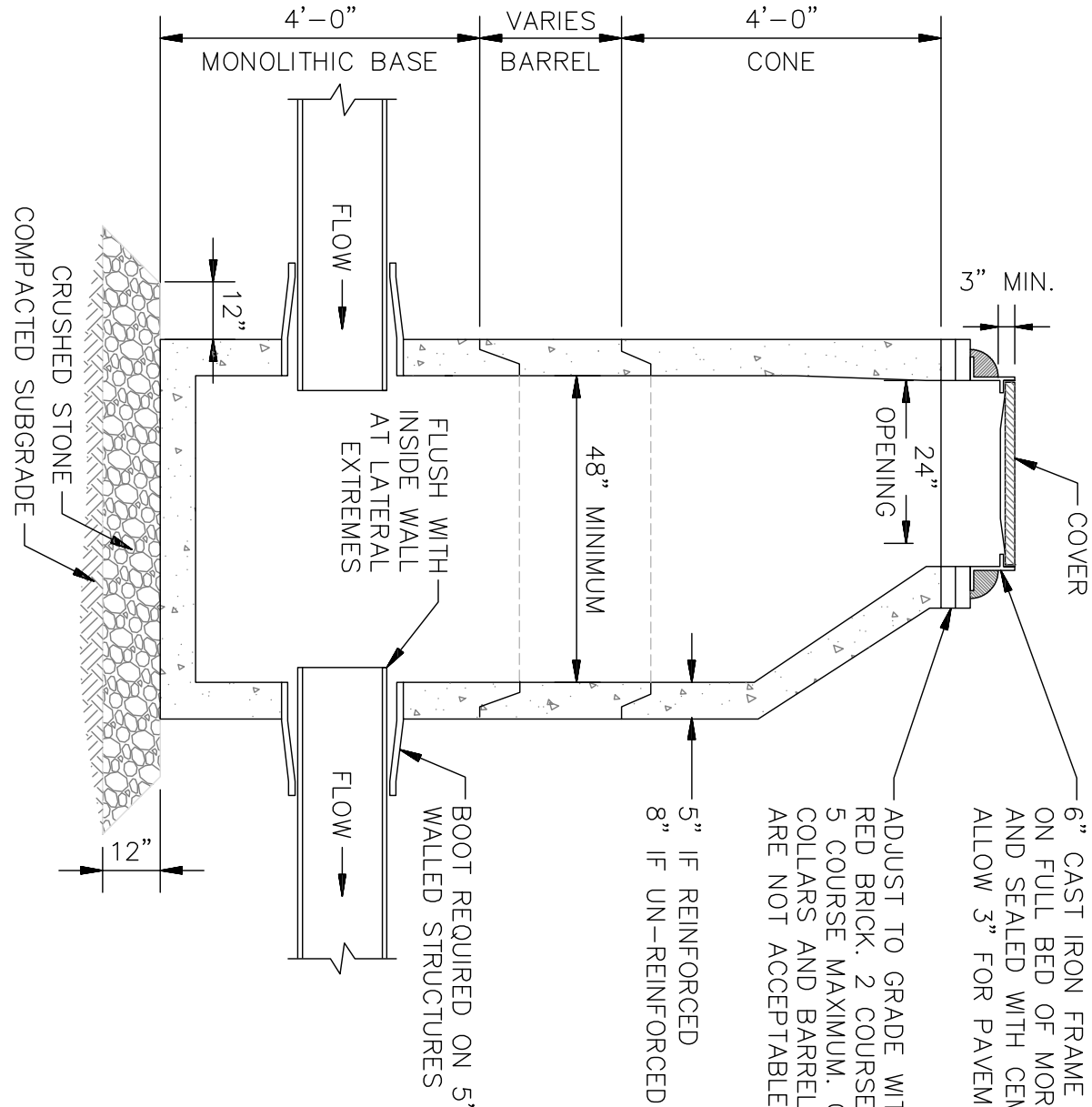


SECTION A-A  
FOR MINIMUM INSIDE INLET DIMENSIONS ONLY

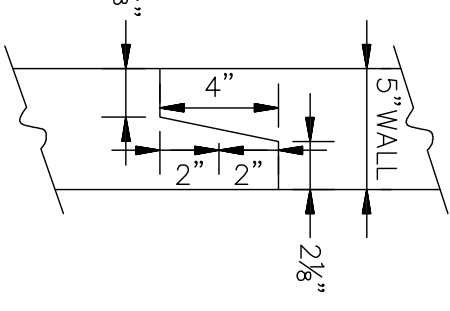
1  
C 4  
TYPE 6A-A INLET DETAIL  
SCALE: NONE

DRAIN MANHOLE NOTES:

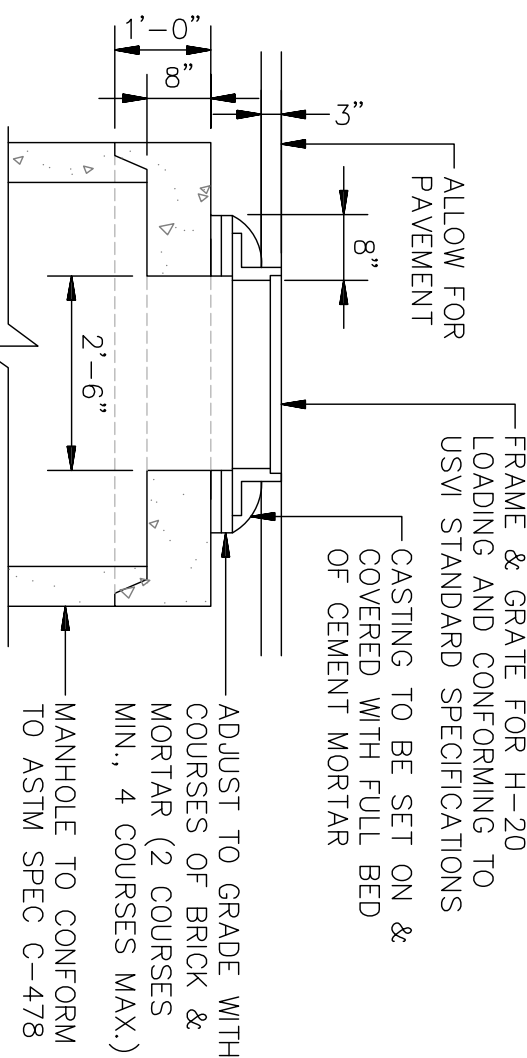
1. STRUCTURE SHALL BE DESIGNED FOR H-20 LOADING.
2. CONCRETE: 4,000 PSI AFTER 28 DAYS.
3. CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQ.IN. PER LINEAR FOOT IN ALL SECTIONS AND SHALL BE IN THE CENTER OF THE WALL. STRUCTURE SHALL BE DESIGNED TO SUPPORT HS20 LOADINGS.
4. THE TONGUE OR THE GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQ.IN. PER LINEAR FOOT.
5. SEAL ALL PRECAST JOINTS WITH BITUMASTIC SEAL.
6. RISERS OF 2", 3" AND 4" CAN BE USED TO REACH DESIRED DEPTH. 12" MAXIMUM RISER HEIGHT.



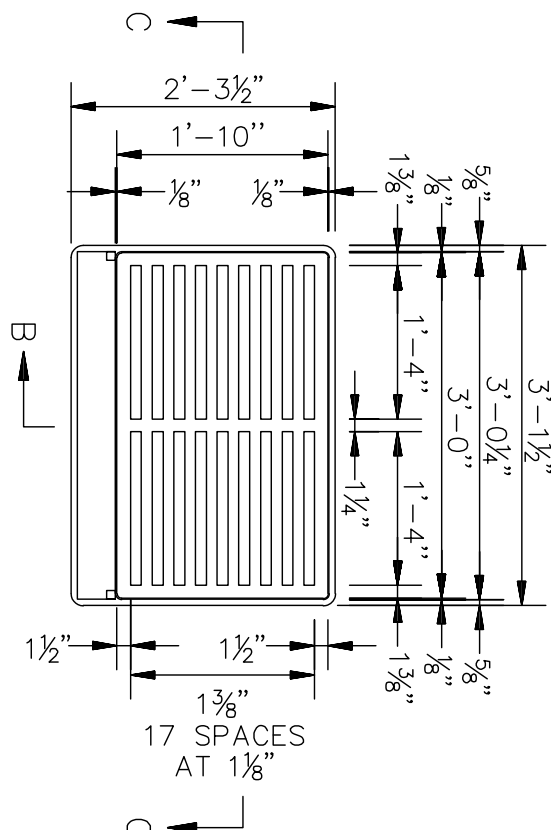
DETAIL OF TONGUE



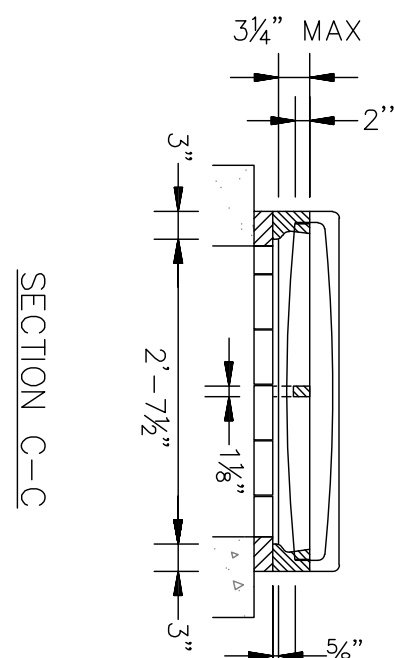
DETAIL OF FLAT SLAB



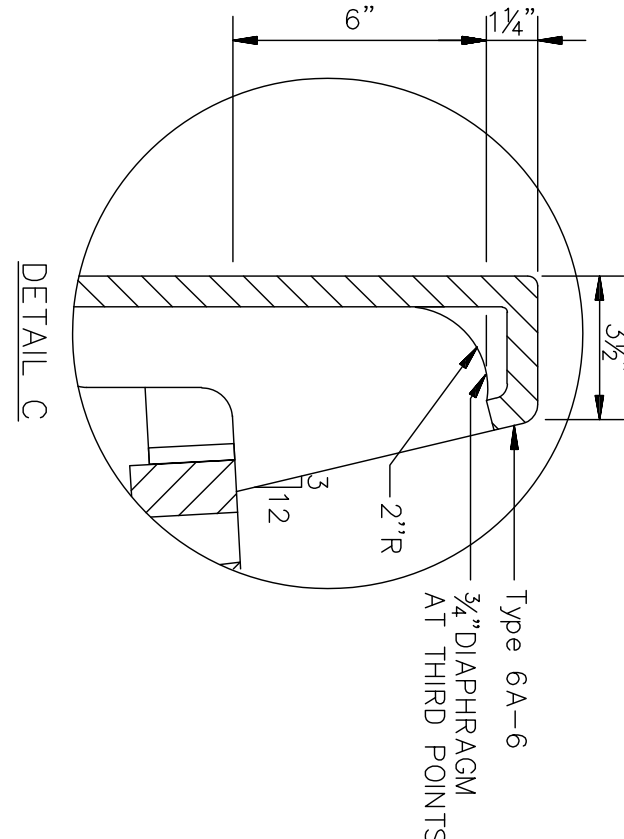
3  
C 4  
DRAIN MANHOLE DETAIL  
SCALE: NONE



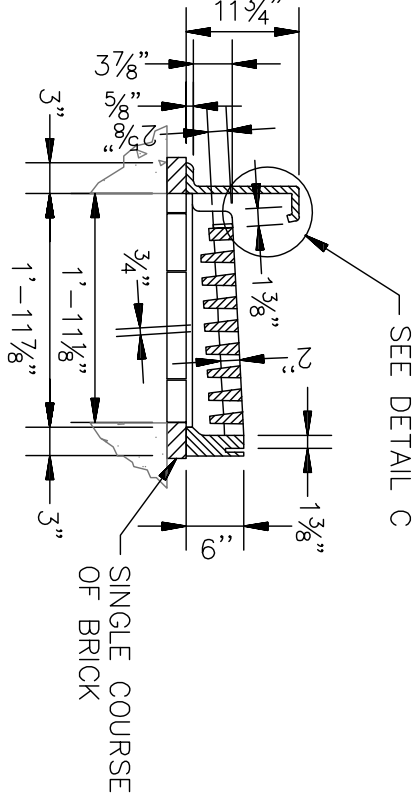
METAL FRAME AND GRATE TYPE 6A



SECTION C-C

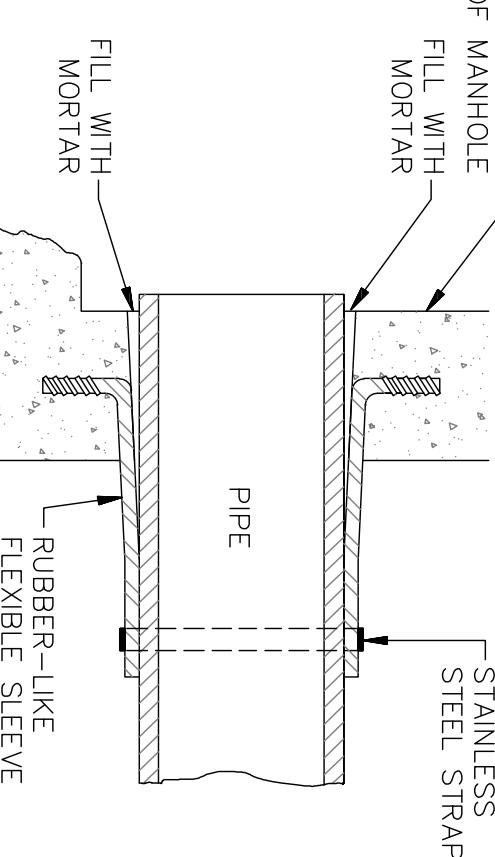
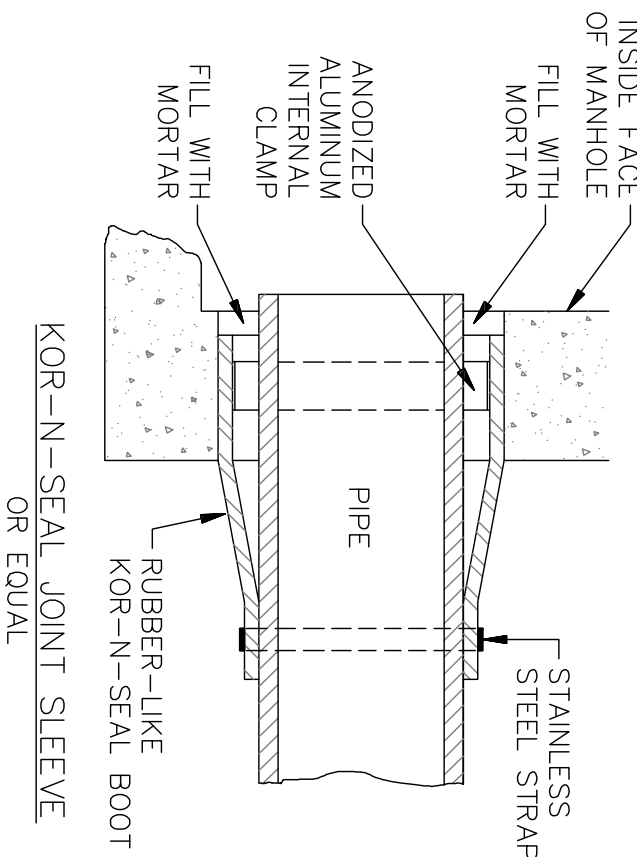


DETAIL C



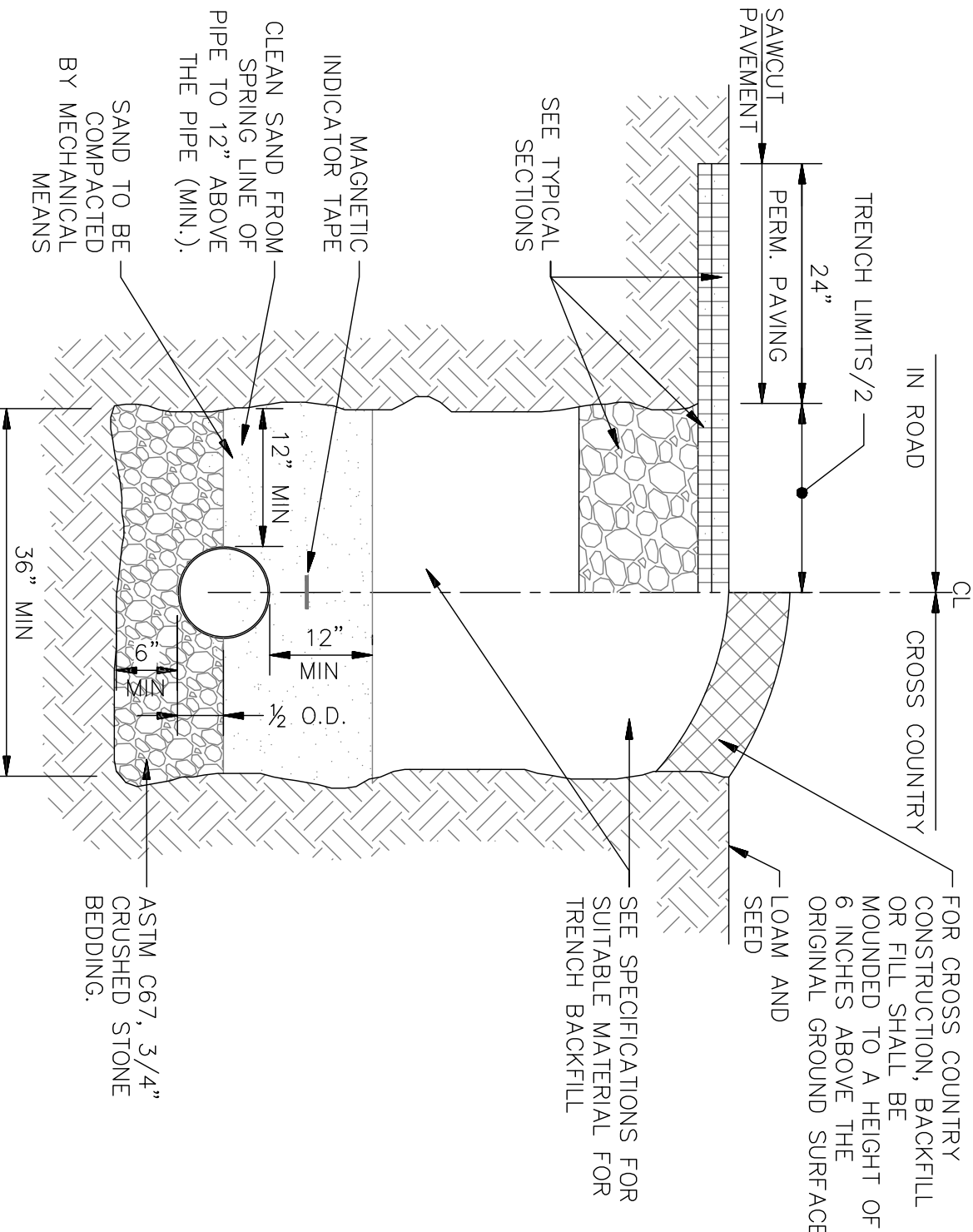
SECTION B-B

2  
C 4  
TYPE 6A METAL FRAME AND GRATE DETAIL  
SCALE: NONE



LOCK-JOINT FLEXIBLE MANHOLE SLEEVE OR EQUAL

4  
C 4  
TYPICAL PIPE TO STRUCTURE DETAILS  
SCALE: NONE



5  
C 4  
DRAIN AND SEWER TRENCH DETAIL  
SCALE: NONE



1

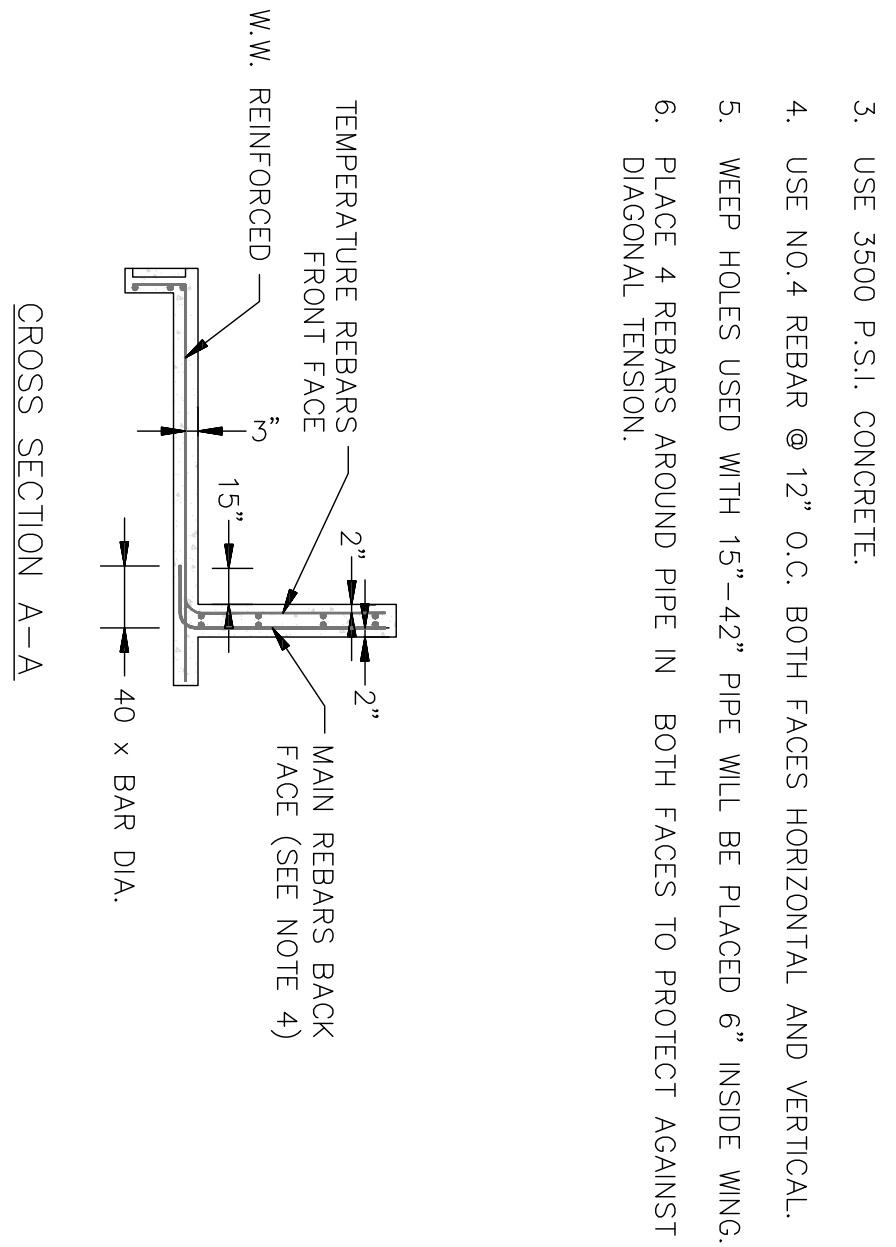
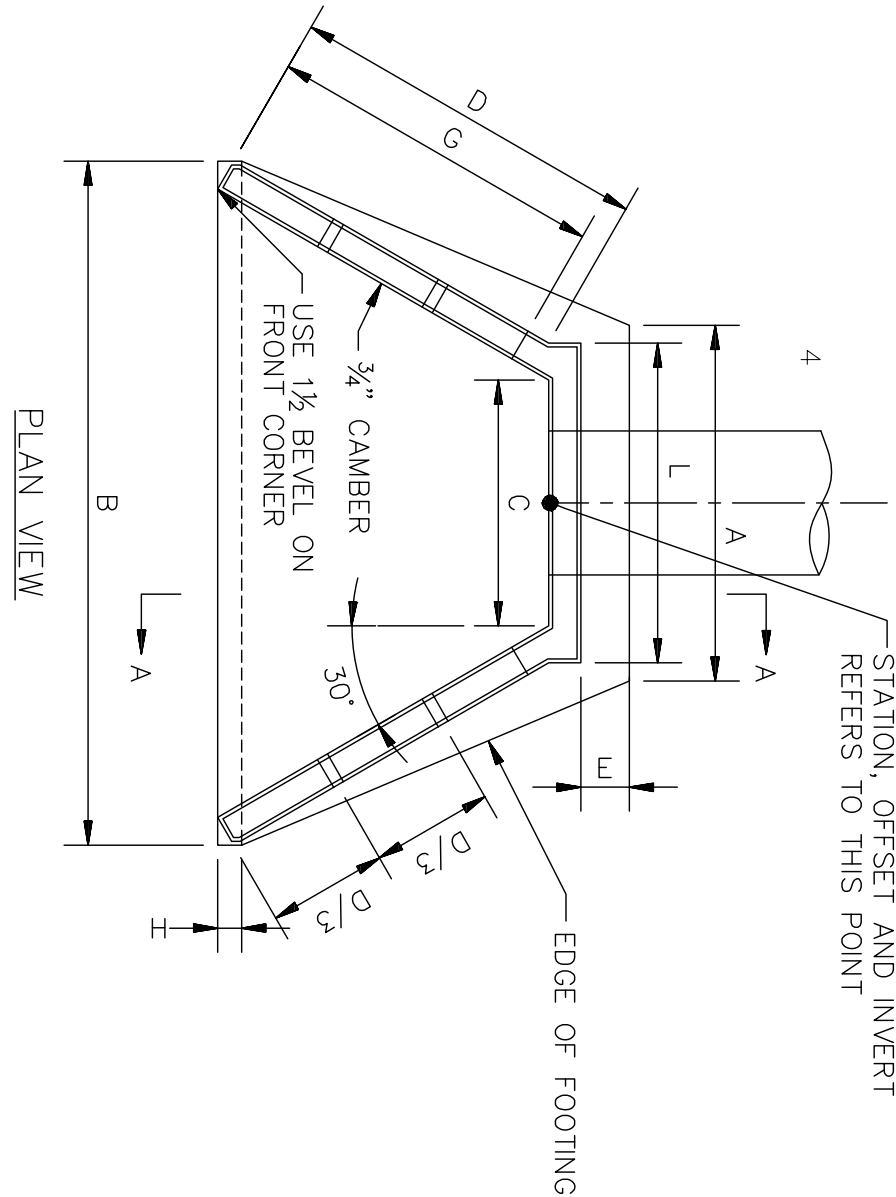
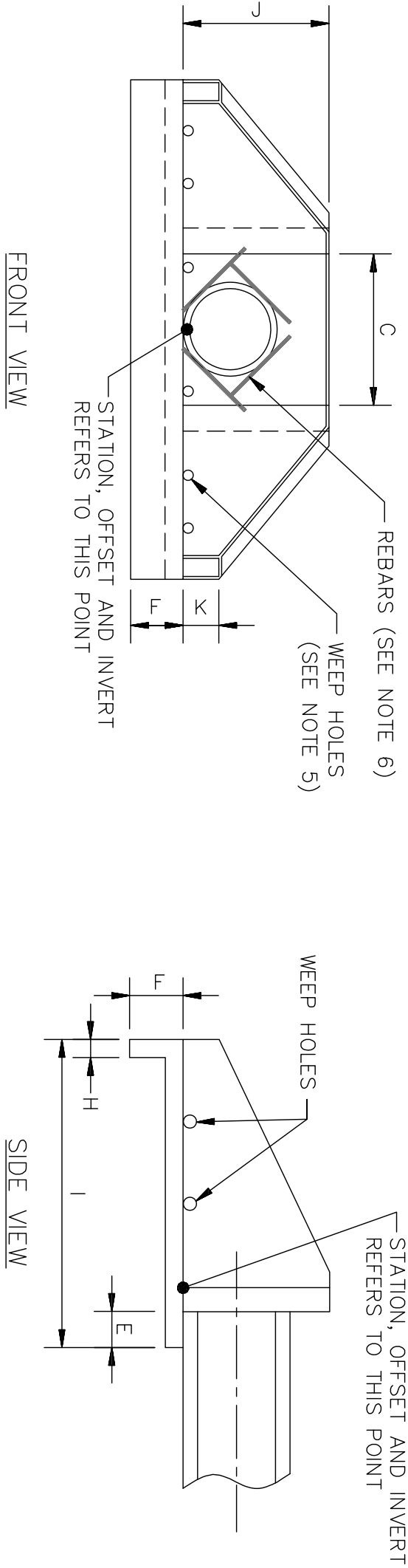
CONCRETE HEADWALL DETAIL

SCALE: NONE

PIPE SIZE	BACK FACE		FRONT FACE	
	WALL REINFORCEMENT	SLAB REINFORCEMENT	TEMP. REINFORCEMENT IN FRONT FACE OF WALLS (COMPRESSION STEEL)	REINFORCING SCHEDULE
	HORIZONTAL	VERTICAL		
24"	NO. 3 @12"O.C.	NO. 3 @12"O.C.	6-6 x 10-10 WIRE MESH REINF.	NO. 4 @8" HOR. AND VERT.
30"	NO. 3 @12"O.C.	NO. 3 @12"O.C.	6-6 x 10-10 WIRE MESH REINF.	NO. 4 @8" HOR. AND VERT.
36"	NO. 3 @12"O.C.	NO. 3 @12"O.C.	6-6 x 10-10 WIRE MESH REINF.	NO. 4 @8" HOR. AND VERT.
42"	NO. 3 @12"O.C.	NO. 3 @12"O.C.	6-6 x 10-10 WIRE MESH REINF.	NO. 4 @8" HOR. AND VERT.

PIPE SIZE	SHELL THICKNESS	WALL THICKNESS	SLAB THICKNESS	A	B	C	D	E	F	G	H	I	J	K	L
24"	3"	8"	6"	6'-4"	12'-4"	4'-6"	6'-3"	1'-0"	1'-6"	5'-9"	6"	7'-5"	3'-6"	1'-0"	6'-1"
30"	3½"	8"	6"	7'-3"	14'-3"	5'-1"	7'-7"	1'-0"	1'-6"	7'-1"	6"	8'-7"	4'-1"	1'-0"	6'-8"
36"	4"	8"	6"	7'-5"	15'-1"	5'-8"	7'-10"	1'-6"	2'-0"	7'-4"	6"	9'-4"	4'-8"	1'-6"	7'-3"
42"	4½"	8"	6"	8'-4"	17'-0"	6'-3"	9'-2"	1'-6"	2'-0"	8'-8"	6"	10'-6"	5'-3"	1'-6"	7'-10"

DIMENSIONS FOR REINFORCED CONCRETE HEADWALL WITH WING WALLS



HEADWALL NOTES:

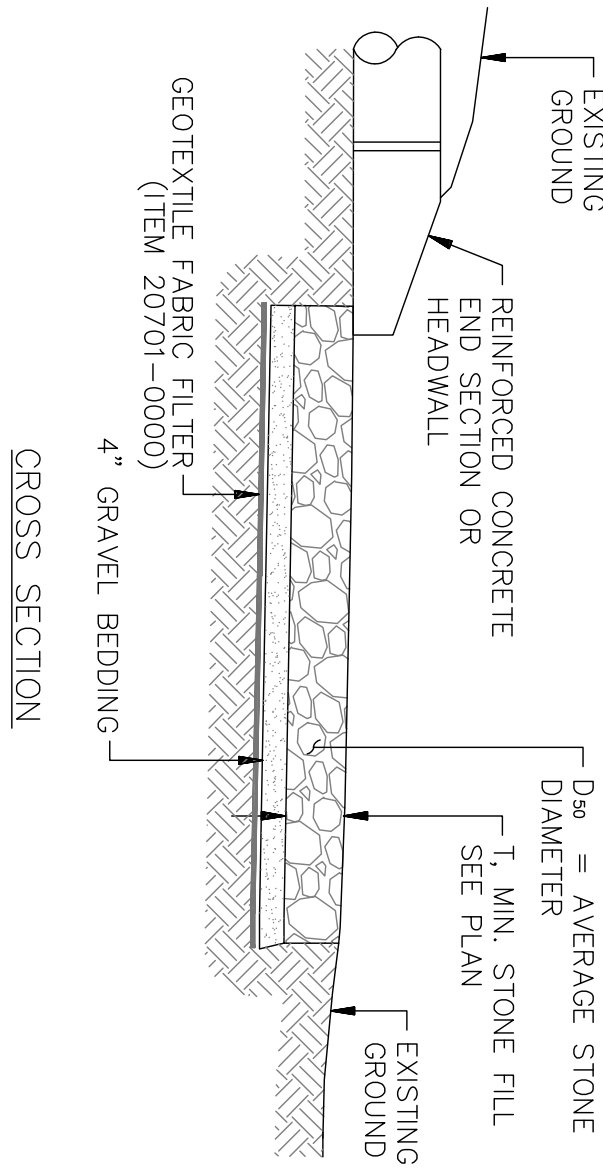
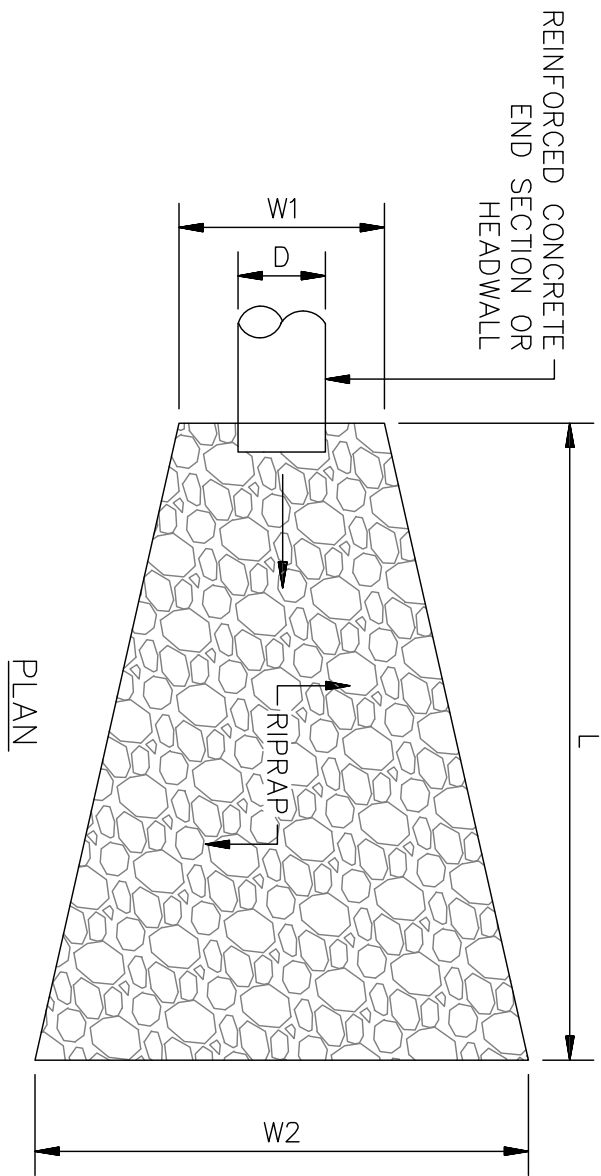
1. SEE DIMENSION TABLE FOR DIMENSIONS OF HEADWALL.
2. SEE REINFORCING SCHEDULE FOR DIMENSIONS.
3. USE 3500 P.S.I. CONCRETE.
4. USE NO. 4 REBAR @ 12" O.C. BOTH FACES HORIZONTAL AND VERTICAL.
5. WEEP HOLES USED WITH 15"-42" PIPE WILL BE PLACED 6" INSIDE WING.
6. PLACE 4 REBARS AROUND PIPE IN BOTH FACES TO PROTECT AGAINST DIAGONAL TENSION.

2

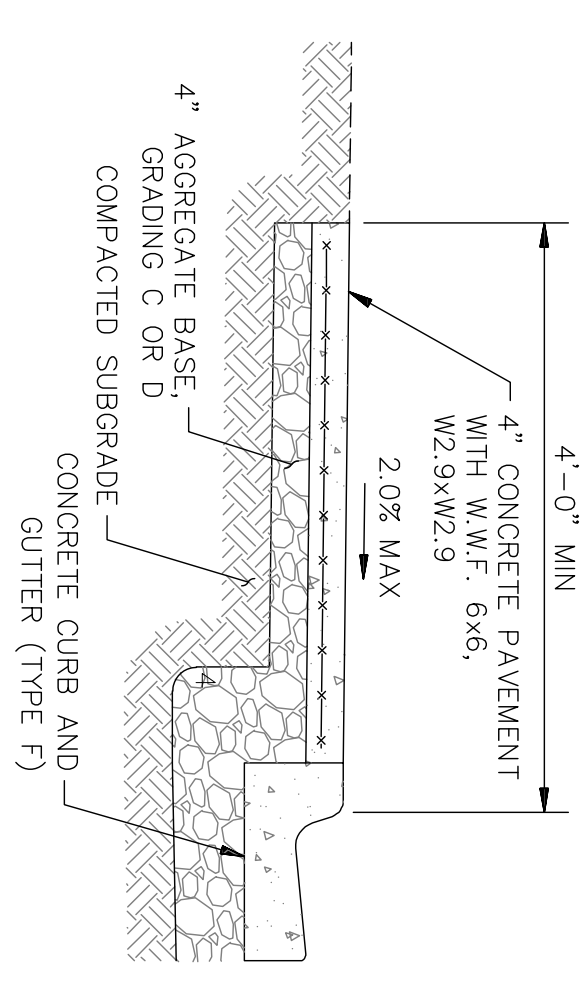
STONE LINED OUTLET PROTECTION DETAIL

SCALE: NONE

STONE LINED OUTLET PROTECTION									
TABLE OF DIMENSIONS									
	D	W1	L	W2	T	D <sub>av</sub>	RIPPRAP VOLUME (C.Y.)		
HEADWALL 1	(IN)	30	5	10	15	12	6	3.7	
HEADWALL 2	30	5	15	25	12	6	8.6		
HEADWALL 5	30	5	18	18	12	6	7.6		
HEADWALL 6	30	5	13	16	12	6	5.0		
HEADWALL 7	30	5	15	11	12	6	4.4		
OUTLET 1	30	8	18	18	12	6	8.7		
OUTLET 2	30	8	18	18	12	6	8.7		
OUTLET 3	30	7	10	13	12	6	3.7		
OUTLET 4	30	8	19	18	12	6	9.1		
OUTLET 5	30	8	17	18	12	6	8.2		
OUTLET 6	30	10	24	14	12	6	10.7		
OUTLET 7	30	6	11	12	12	6	3.7		
REPAIR AREA 2	12	7	27	11	12	6	9.0		
REPAIR AREA 4	SEE PLAN	20	17	38	12	6	18.3		
REPAIR AREA 6	NA	12	16	16	12	6	8.3		



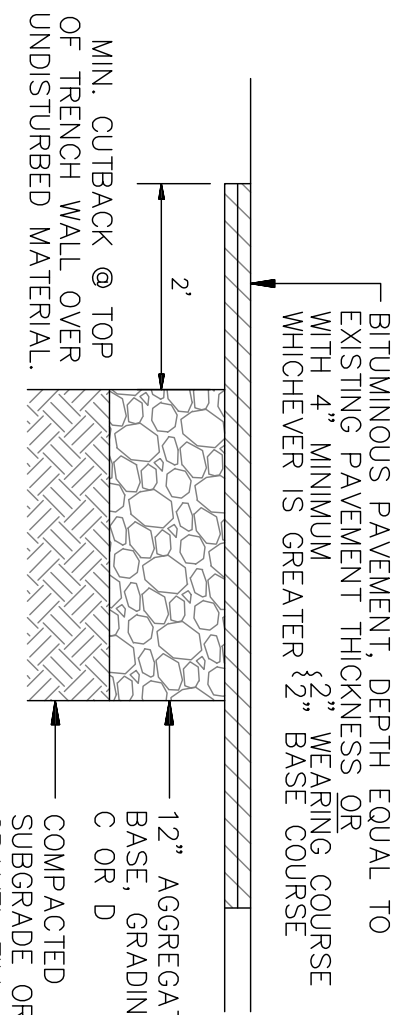




**SIDEWALK NOTES:**

1. CONCRETE TO BE CLASS 1, 3000 PSI.
2. 4" THICK MINIMUM, 6" THICK AT DRIVEWAYS EXTENDED 2' BEYOND DRIVE AT BOTH SIDES.

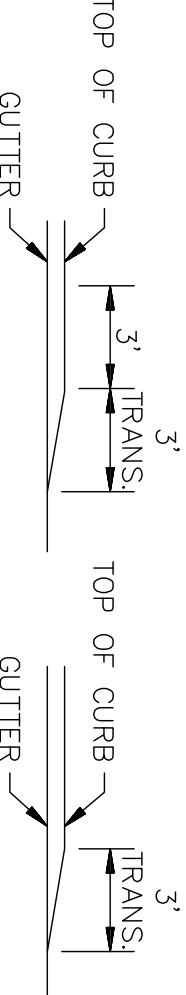
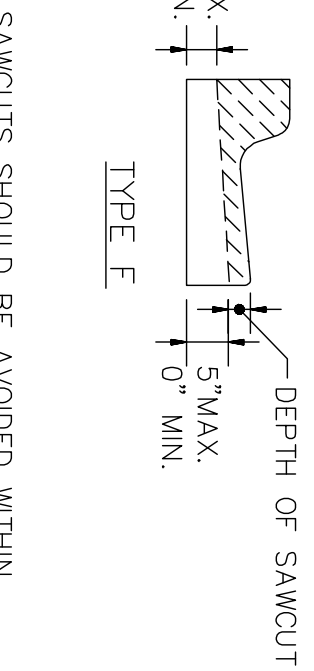
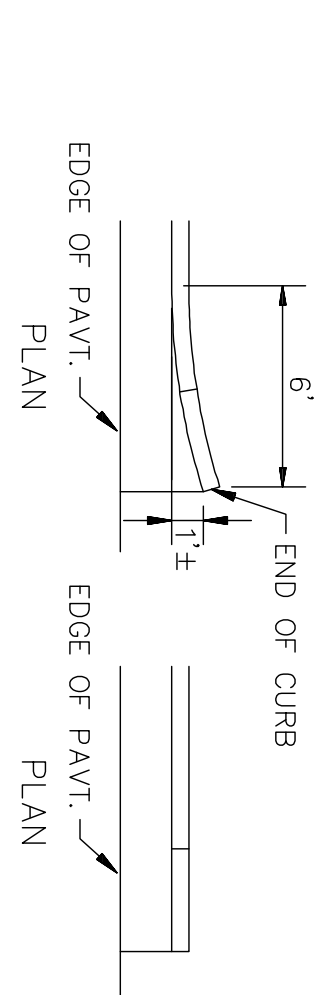
**1** TYPICAL CONCRETE SIDEWALK SECTION  
C 6 SCALE: NONE



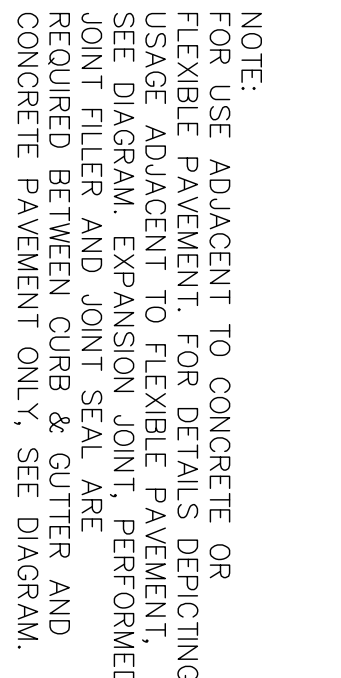
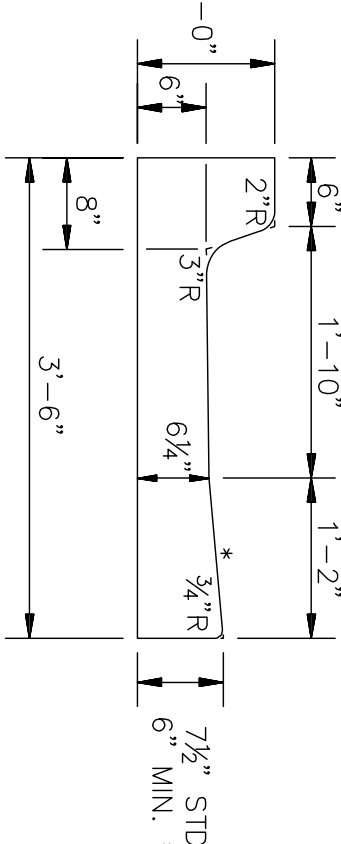
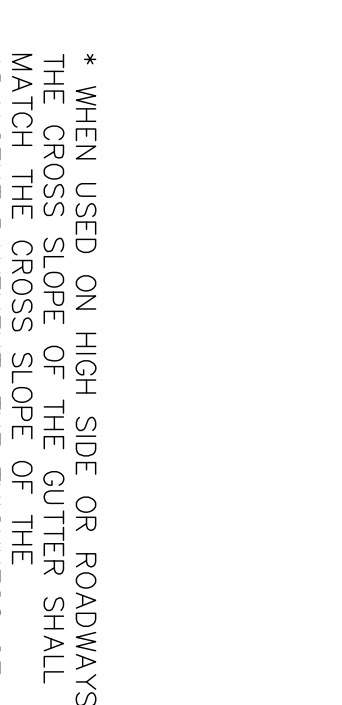
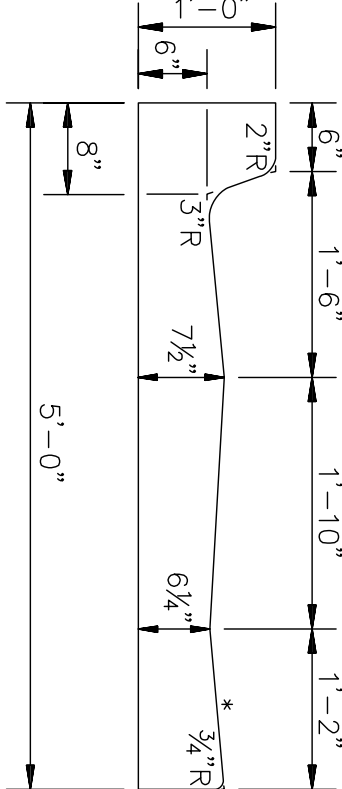
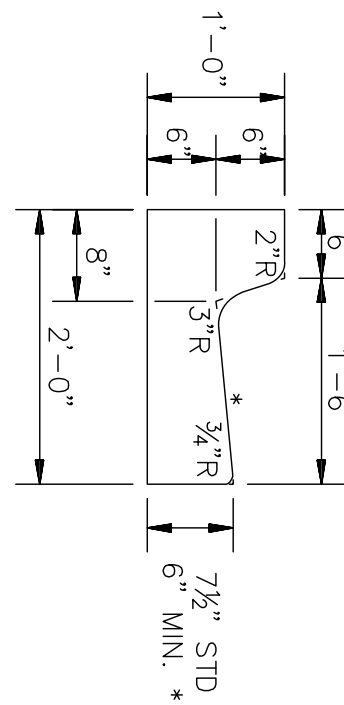
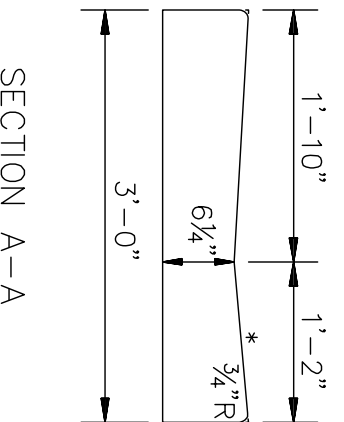
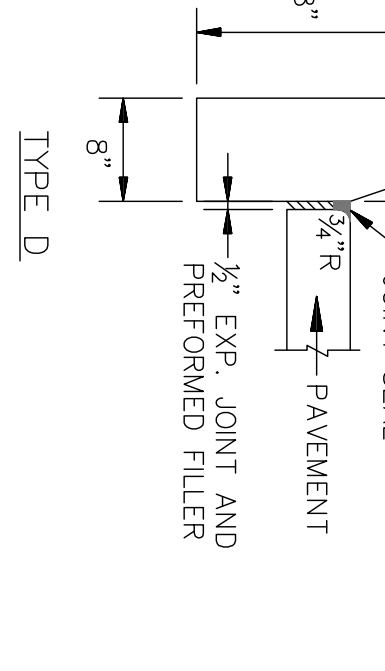
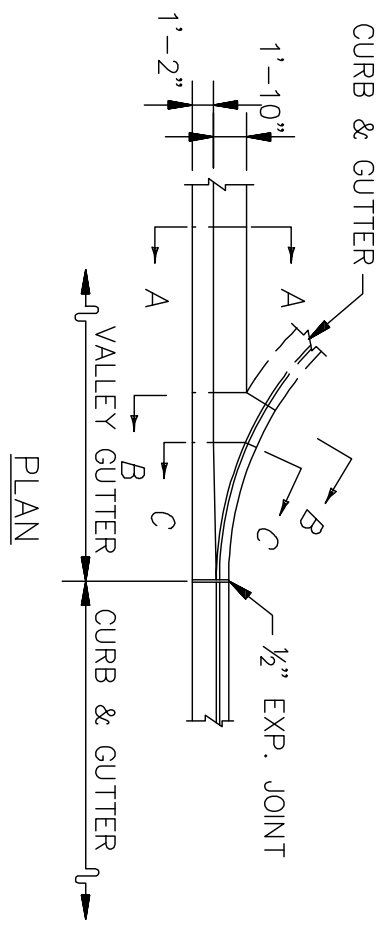
**PERMANENT PAVEMENT REPAIR**

- PAVEMENT REPAIR NOTES:**
1. MATERIALS SHOULD BE REPLACED IN-KIND, WITH MINIMUM THICKNESS AS SHOWN.
  2. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REQUIREMENTS.
  3. ROADWAY CONSTRUCTION SHALL CONFORM TO USVI STANDARD SPECIFICATIONS.

**2** PAVEMENT REPAIR DETAILS  
C 6 SCALE: NONE



**CURB AND GUTTER TYPES E AND F ENDINGS**



**SECTION C-C  
VALLEY GUTTER**

**3** CONCRETE CURB & GUTTER DETAILS (FOOT INDEX 300)  
C 6 SCALE: NONE

**CURB & GUTTER NOTES:**

1. PUBLIC SIDEWALK CURB RAMPS SHALL BE CONSTRUCTED IN THE PUBLIC RIGHT OF WAY AT LOCATIONS THAT WILL PROVIDE CONTINUOUS UNOBSTRUCTED PEDESTRIAN CIRCULATION PATHS TO PEDESTRIAN AREAS, INCLUDING TRANSITION SLOPES TO ADJACENT SITES. CURBED FACILITIES WITH SIDEWALKS AND THOSE WITHOUT SIDEWALKS ARE TO HAVE CURB RAMPS CONSTRUCTED AT ALL STREET INTERSECTIONS AND AT TURNOUTS THAT HAVE CURBED RETURNS. PARTIAL CURB RETURNS SHALL EXTEND TO THE LIMIT PRESCRIBED BY INDEX NO. 515 TO ACCOMMODATE CURB RAMPS. RAMPS CONSTRUCTED AT LOCATIONS WITHOUT SIDEWALKS SHALL HAVE A LANDING CONSTRUCTED AT THE TOP OF EACH RAMP.
2. THE LOCATION AND ORIENTATION OF CURB RAMPS SHALL BE AS SHOWN IN THE PLANS.
3. CURB RAMPS RUNNING SLOPES AT UNRESTRAINED SITES SHALL NOT BE STEEPER THAN 1:12 AND CROSS SLOPE SHALL BE 0.02 OR FLATTER. TRANSITION SLOPES SHALL NOT BE STEEPER THAN 1:12.

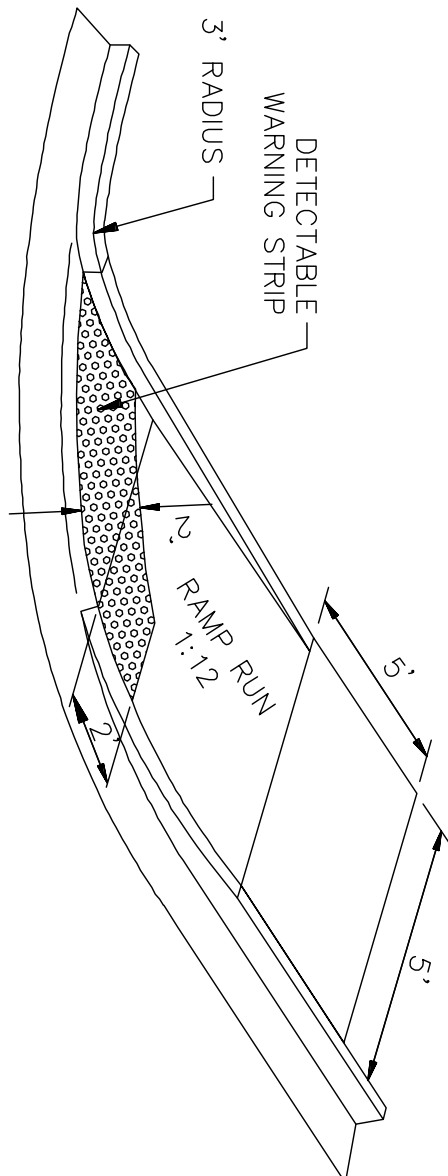
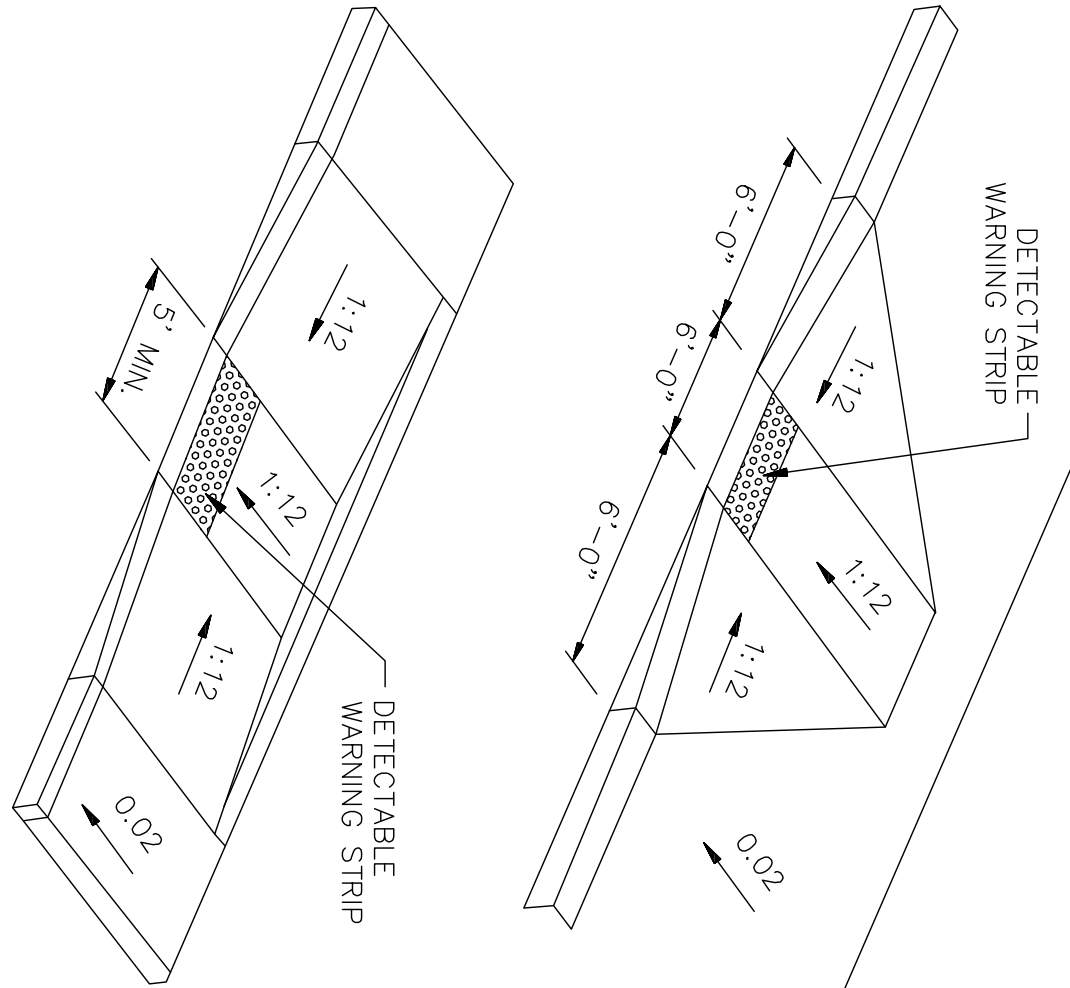
WHEN ALTERING EXISTING PEDESTRIAN FACILITIES WHERE EXISTING SITE CONDITIONS REQUIRE A RAMP, THE RAMP SHALL HAVE A MINIMUM RISE OF 6" MAXIMUM AND A RUNNING SLOPE OF BETWEEN 1:10 AND 1:8 IS PERMITTED FOR A RISE OF 3" MAXIMUM. WHERE COMPLIANCE WITH REQUIREMENTS FOR CROSS SLOPE CANNOT BE FULLY MET, THE MINIMUM FEASIBLE CROSS SLOPE SHALL BE PROVIDED.

RAMP RUNNING SLOPE IS NOT REQUIRED TO EXCEED 8' IN LENGTH, EXCEPT AT SITES WHERE THE PLANS SPECIFY A GREATER LENGTH.

4. IF A CURB IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP, THEN THE WALK SHALL HAVE TRANSITION SLOPES TO THE RAMP. CURB RETURNS MAY BE USED AT LOCATIONS WHERE OTHER IMPROVEMENTS PROVIDE GUIDANCE AWAY FROM THAT PORTION OF THE CURB PERPENDICULAR TO THE SIDEWALK. IMPROVEMENTS FOR GUIDANCE ARE NOT REQUIRED AT CURB RAMPS FOR LINEAR PEDESTRIAN TRAFFIC.
5. CURB RAMP DETECTABLE WARNING SURFACES SHALL EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24" FROM THE BACK OF CURB. DETECTABLE WARNING SURFACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATION 527. TRANSITION SLOPES ARE NOT TO HAVE DETECTABLE WARNINGS.

6. WHERE A CURB RAMP IS CONSTRUCTED WITHIN EXISTING CURB, CURB AND GUTTER AND/OR SIDEWALK, THE EXISTING CURB OR CURB AND GUTTER SHALL BE REMOVED TO THE NEAREST JOINT BEYOND THE CURB TRANSITIONS OR TO THE EXTENT THAT NO REMAINING SECTION OF CURB OR CURB AND GUTTER IS LESS THAN 5' LONG. THE EXISTING SIDEWALK SHALL BE REMOVED TO THE NEAREST JOINT BEYOND THE TRANSITION SECTION OR WALK AROUND OR TO THE EXTENT THAT NO REMAINING SECTION OF SIDEWALK IS LESS THAN 5' LONG.
7. ACCEPTABLE CRITERIA FOR DETECTABLE WARNINGS:
  - (A) THE RAMP DETECTABLE WARNING SURFACE SHALL BE CONSTRUCTED TO THE FULL WIDTH OF THE RAMP.
  - (B) 90% OF THE INDIVIDUAL TRUNCATED DOMES MUST COMPLY WITH THE DESIGN CRITERIA.
  - (C) THERE MAY BE NO MORE THAN 4 NON-COMPLYING DOMES IN ANY ONE SQUARE FOOT OF SURFACE.
  - (D) NO TWO ADJACENT DOMES MAY BE NON-COMPLIANT.
  - (E) SURFACE MAY NOT DEVIATE MORE THAN 0.10" FROM A TRUE PLAN.

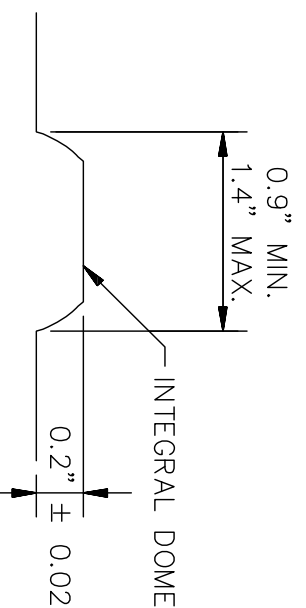
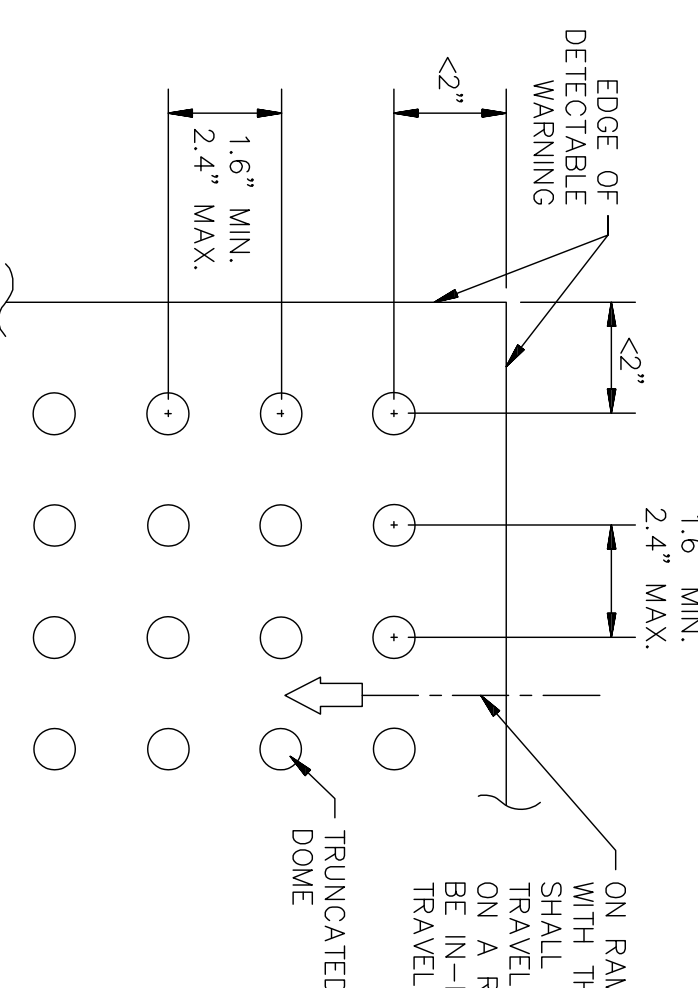
8. ALL SIDEWALK SURFACES, RAMP SURFACES, AND LANDINGS WITH A CROSS SLOPE SHOWN IN THIS INDEX TO BE 0.02 SHALL BE 0.02 MAXIMUM. ALL RAMP SURFACES AND RAMP TRANSITION SLOPES WITH A SLOPE SHOWN IN THIS INDEX TO BE 1:12 SHALL BE 1:12 MAXIMUM.



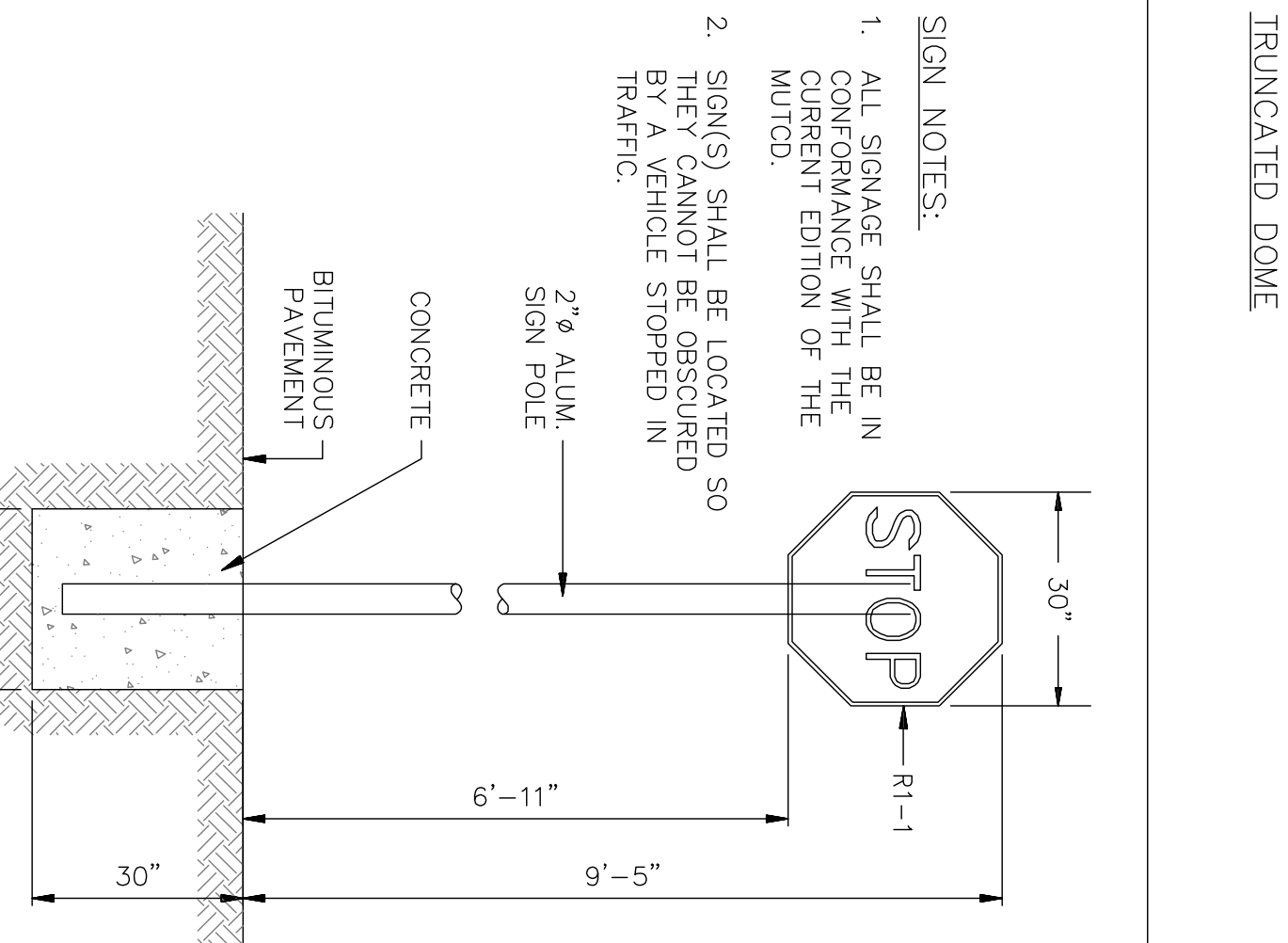
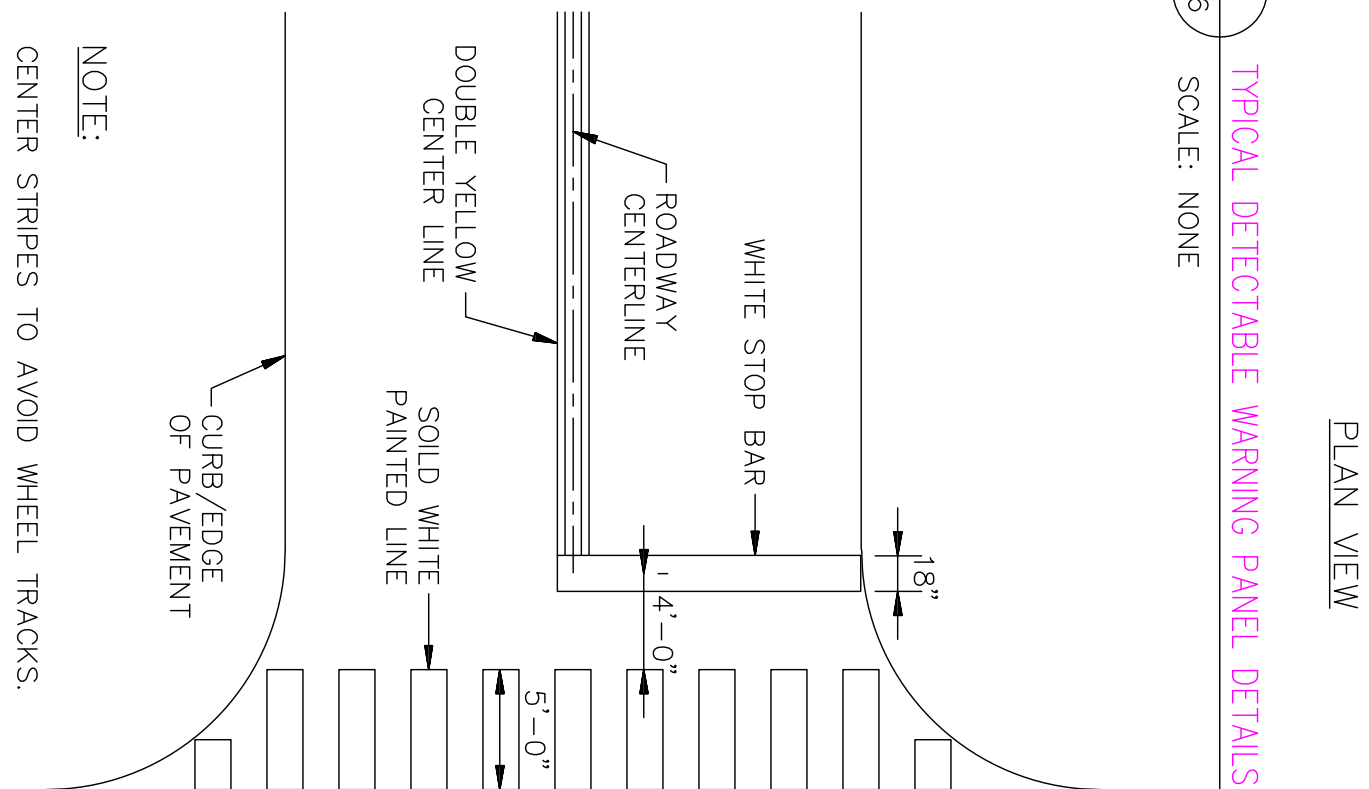
**SIDEWALK RAMP NOTES:**

1. SLOPE OF RAMP VARIES WITH SIDEWALK WIDTH AND HEIGHT, WITH A MAXIMUM SLOPE OF 1:12.
2. AN ADA DETECTABLE WARNING TRUNCATED DOME FINISH TO TRANSVERSE TO THE SLOPE OF THE RAMP AND WARPED SIDEWALK SHALL BE USED ON ALL RAMPS.
3. MAINTAIN THE NORMAL GUTTER PROFILE THROUGHOUT THE RAMP AREA.
4. INTERCEPT DRAINAGE ALONG THE CURB IN ADVANCE OF THE RAMP.
5. FORM 1" (±1/8" TOLERANCE) CURB UP IN SIDEWALK PAVING MATERIAL.

**4** HANDICAP TIP DOWN RAMP DETAILS  
C 6 SCALE: NONE



**5** TYPICAL DETECTABLE WARNING PANEL DETAILS  
C 6 SCALE: NONE



**6** PAINTED CROSSWALK & STOP BAR DETAIL  
C 6 SCALE: NONE

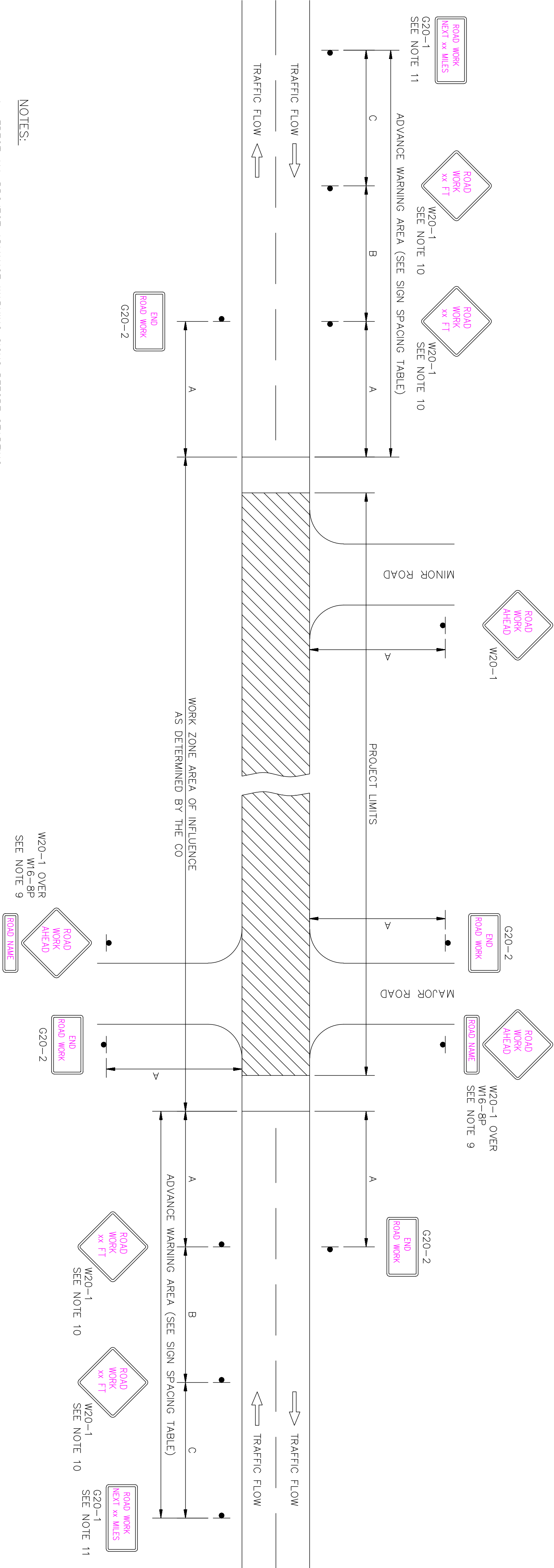
**7** SIGN MOUNTING DETAIL  
C 6 SCALE: NONE







SIGN SPACING TABLE				
ROAD TYPE	DISTANCE BETWEEN SIGNS IN FEET			
	A	B	C	
URBAN AND RURAL 30 MPH AND LESS	100	100	100	
URBAN AND RURAL 35 MPH TO 50 MPH	350	350	350	
RURAL GREATER THAN 50 MPH	500	500	500	
EXPRESSWAY / FREEWAY	1500	1500	2640	



- NOTES:**
- ERECT ALL PROJECT ADVANCE WARNING SIGNS BEFORE STARTING CONSTRUCTION WORK.
  - NOT ALL DETAILS SHOWN ON THE TEMPORARY TRAFFIC CONTROL SHEETS MAY BE APPLICABLE TO THIS PROJECT. THE CONTRACTOR MAY ADD OR DELETE DETAILS TO ACCOMMODATE THE TRAFFIC CONTROL PLAN AS NECESSARY TO ACCOMMODATE ACTUAL OPERATIONS.
  - WHERE ADVANCE WARNING SIGNS, PLACED AS SHOWN, INTERFERE WITH PERMANENT SIGNS, LOCATE THE WARNING SIGNS AS DETERMINED BY THE CO FOR BEST RESULTS. VARY MESSAGES AS REQUIRED.
  - ADDITIONAL OR DIFFERENT MESSAGE SIGNS MAY BE REQUIRED TO FIT THE ACTUAL CONSTRUCTION CONDITIONS.
  - INSTALL ADVISORY SPEED PLATES UNDER THE W20 SERIES WARNING SIGNS AS NEEDED TO INDICATE A MAXIMUM RECOMMENDED SPEED THROUGH THE CONSTRUCTION AREA.
  - ENSURE ALL SIGN SUPPORTS EXPOSED TO IMPACT BY TRAFFIC MEET THE REQUIREMENTS OF NCRRP-350 OR MASH FOR CRASHWORTHINESS.
  - MAINTAIN TWO-WAY TRAFFIC DURING ALL NON-WORK HOURS EXCEPT AS APPROVED BY THE CO.
  - DO NOT STORE TRAFFIC CONTROL DEVICES ALONG THE ROADWAY WHEN NOT IN USE. COVER POST-MOUNTED SIGNS WHEN NOT APPLICABLE.
  - IF W20-1 IS PLACED ON A ROADWAY OTHER THAN THAT ON WHICH THE ACTUAL CONSTRUCTION WORK OCCURS, INCLUDE A SUPPLEMENTARY PLAQUE INDICATING THE NAME OF THE ROAD ON WHICH THE CONSTRUCTION DOES OCCUR (APPLIES TO MAJOR ROADS ONLY).
  - THE MESSAGE ON THE W20-1 SIGNS MAY BE "ROAD WORK AHEAD" OR MAY SPECIFY THE DISTANCE TO THE WORK AREA IN FEET OR IN MILES. 50 MPH WHEN USED, PLACE THE TWO W20-1 SIGNS "B" FEET APART ACCORDING TO THE SIGN SPACING TABLE.
  - FOR WORK ZONES THAT ARE 2 MILES OR MORE IN LENGTH, INSTALL G20-1 SIGNS AT EACH END OF THE PROJECT. SHOW THE DISTANCE ON THE G20-1 SIGN TO THE NEAREST WHOLE MILE.
  - IF SIGNING ON A ROADWAY UNDER A JURISDICTION OTHER THAN THE CLIENT AGENCY, VERIFY THAT AN ENCROACHMENT PERMIT HAS BEEN OBTAINED.
  - USVI STANDARDS MAY BE USED AS AN ALTERNATIVE IF APPROVED BY THE CO.

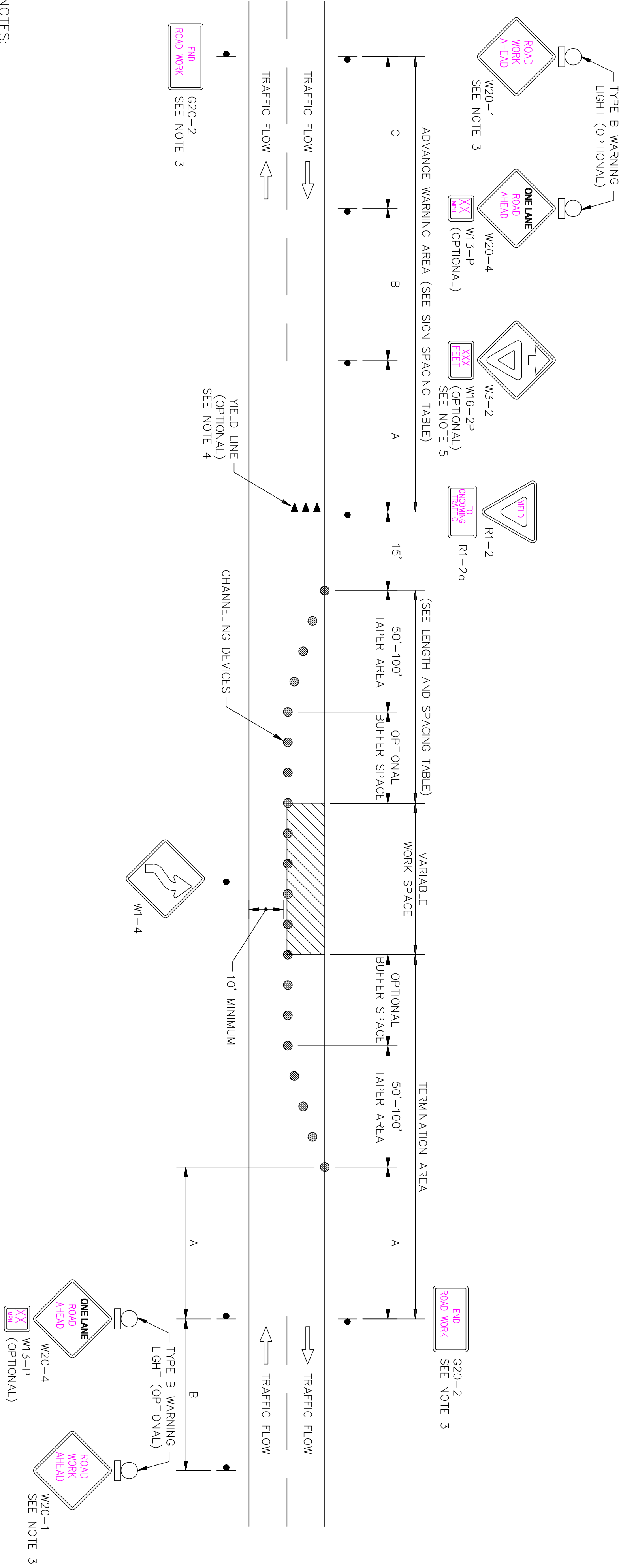
1 ADVANCE SIGNING LAYOUT DETAIL  
C 8 SCALE: NONE



LENGTH AND SPACING TABLE									
APPROACH SPEED*	BUFFER SPACE LENGTH	SPACING IN FEET							
		TAPER AREA	BUFFER SPACE	DEVELOPMENT SPACE	WORK SPACE	STREET SPACE	TRAVEL SPACE	STREET SPACE	TRAVEL SPACE
MPH	20	115	20	40	40	40			
	25	155	20	50	50	50			
	30	200	20	60	60	60			
	35	250	20	70	70	70			
	40	305	20	80	80	80			
	45	360	20	90	90	90			
	50	425	20	100	100	100			
	55	495	20	110	110	110			
	60	570	20	120	120	120			
	65	645	20	130	130	130			
70	730	20	140	140	140				

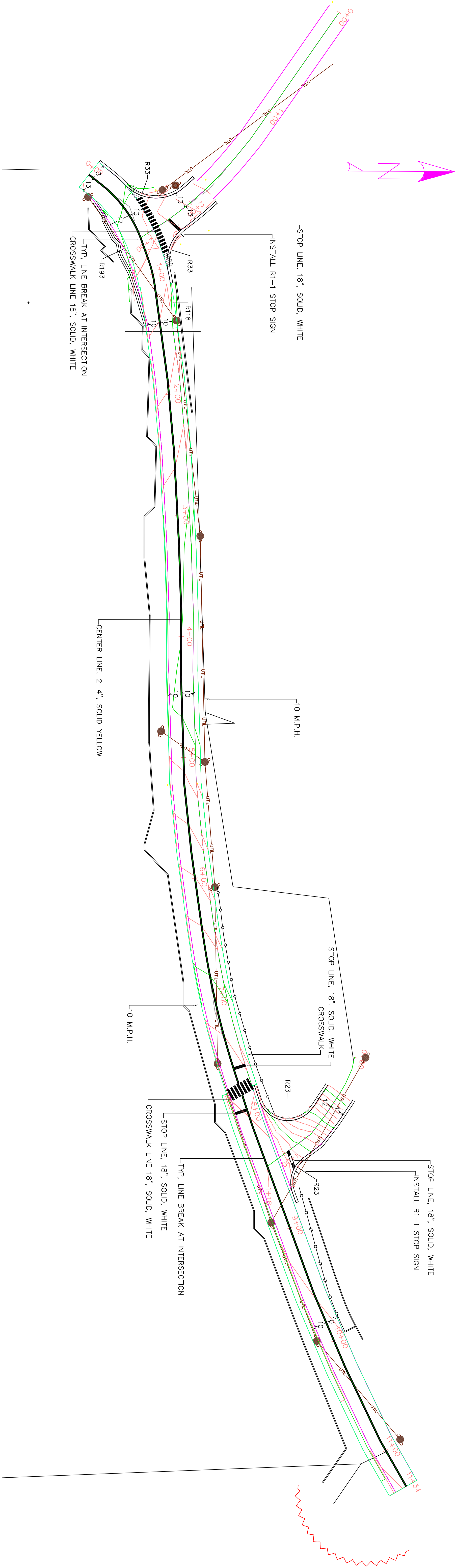
SIGN SPACING TABLE			
ROAD TYPE	DISTANCE BETWEEN SIGNS IN FEET		
	A	B	C
URBAN AND RURAL 30 MPH AND LESS	100	100	100
URBAN AND RURAL 35 MPH TO 50 MPH	350	350	350
RURAL GREATER THAN 50 MPH	500	500	500
EXPRESSWAY / FREEWAY	1500	1500	2640

\* APPROACH SPEED BASED ON THE REGULATORY POSTED SPEED, NOT THE ADVISORY SPEED.

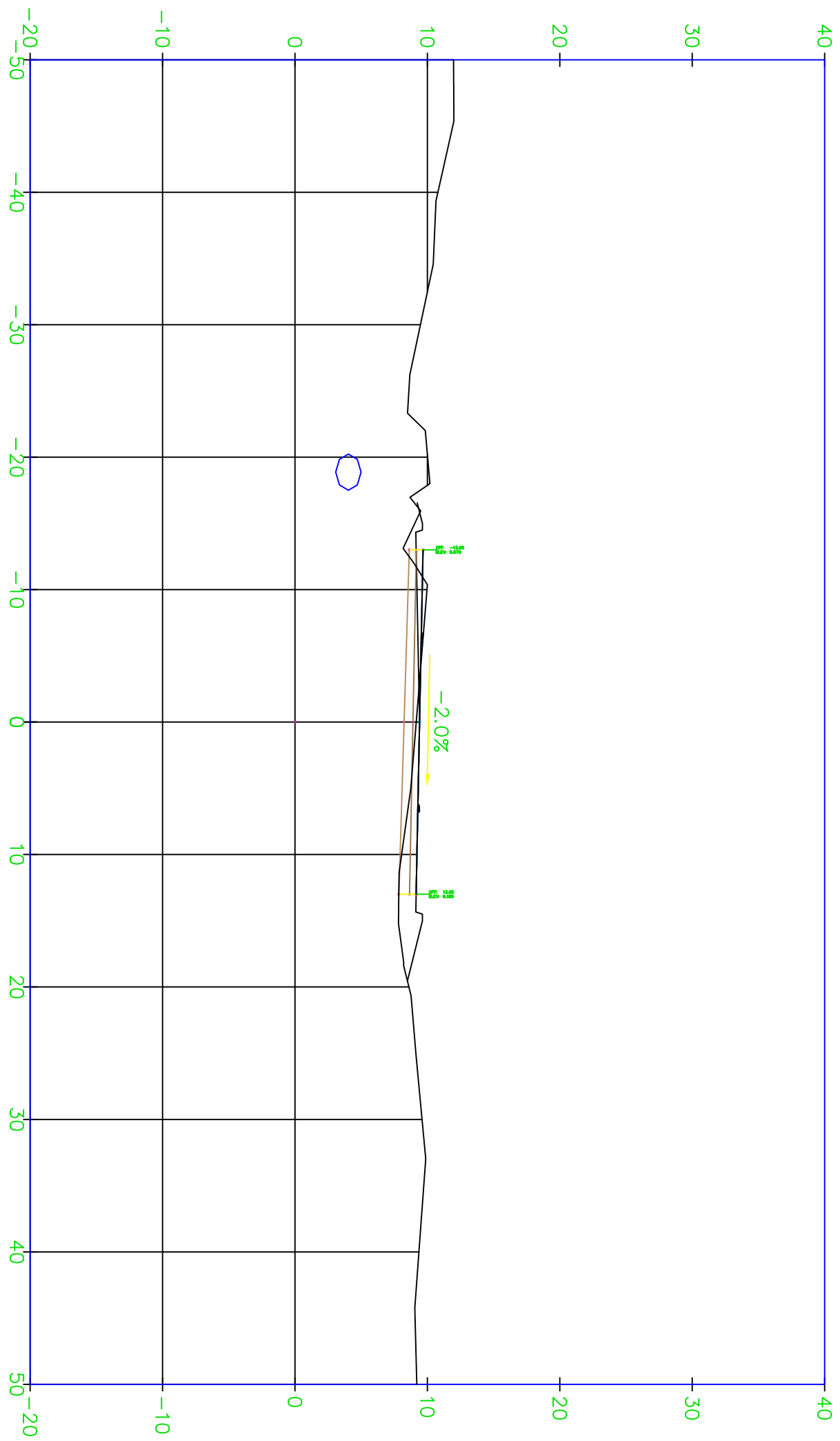


2. FINAL LOCATION AND SPACING OF SIGNS AND DEVICES MAY BE CHANGED TO FIT FIELD CONDITIONS AS APPROVED THE CO.
3. IF CLOSURE IS COMPLETELY WITHIN THE PROJECT LIMITS, ELIMINATE THE "ROAD WORK AHEAD" (W20-1) AND "END ROAD WORK" (G20-2) SIGNS.
4. IF THE SURFACE IS PAVED, INSTALL YIELD LINES THAT COMPLY WITH SECTION 38.16 OF THE MUTCD.
5. USE THE "YIELD AHEAD" (W3-2) SIGN WHEN APPROACH SPEEDS EXCEED 50 MPH.
6. DO NOT ALLOW EQUIPMENT, MATERIALS, OR VEHICLES TO BE PARKED OR STORED IN THE BUFFER SPACE.

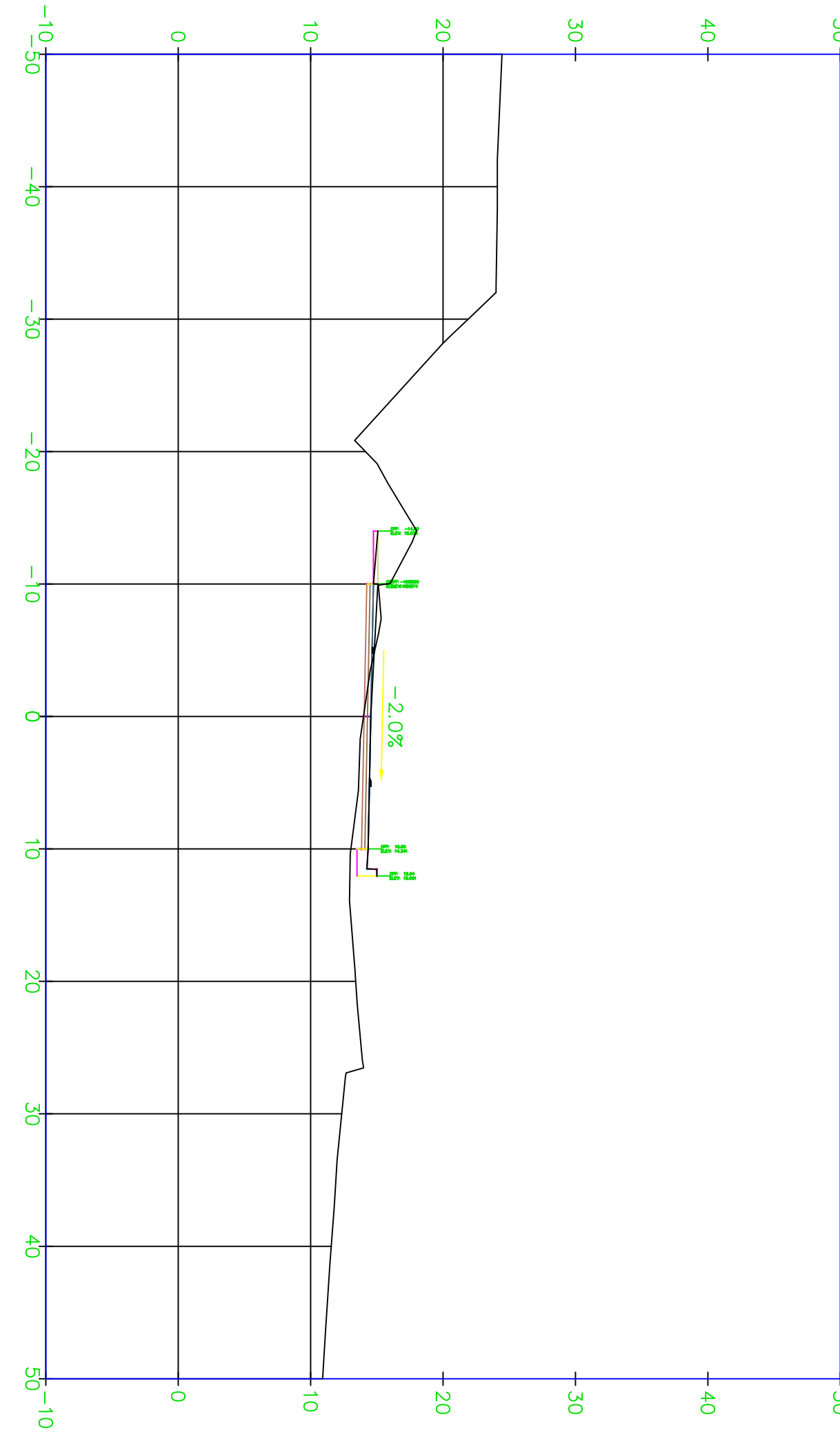




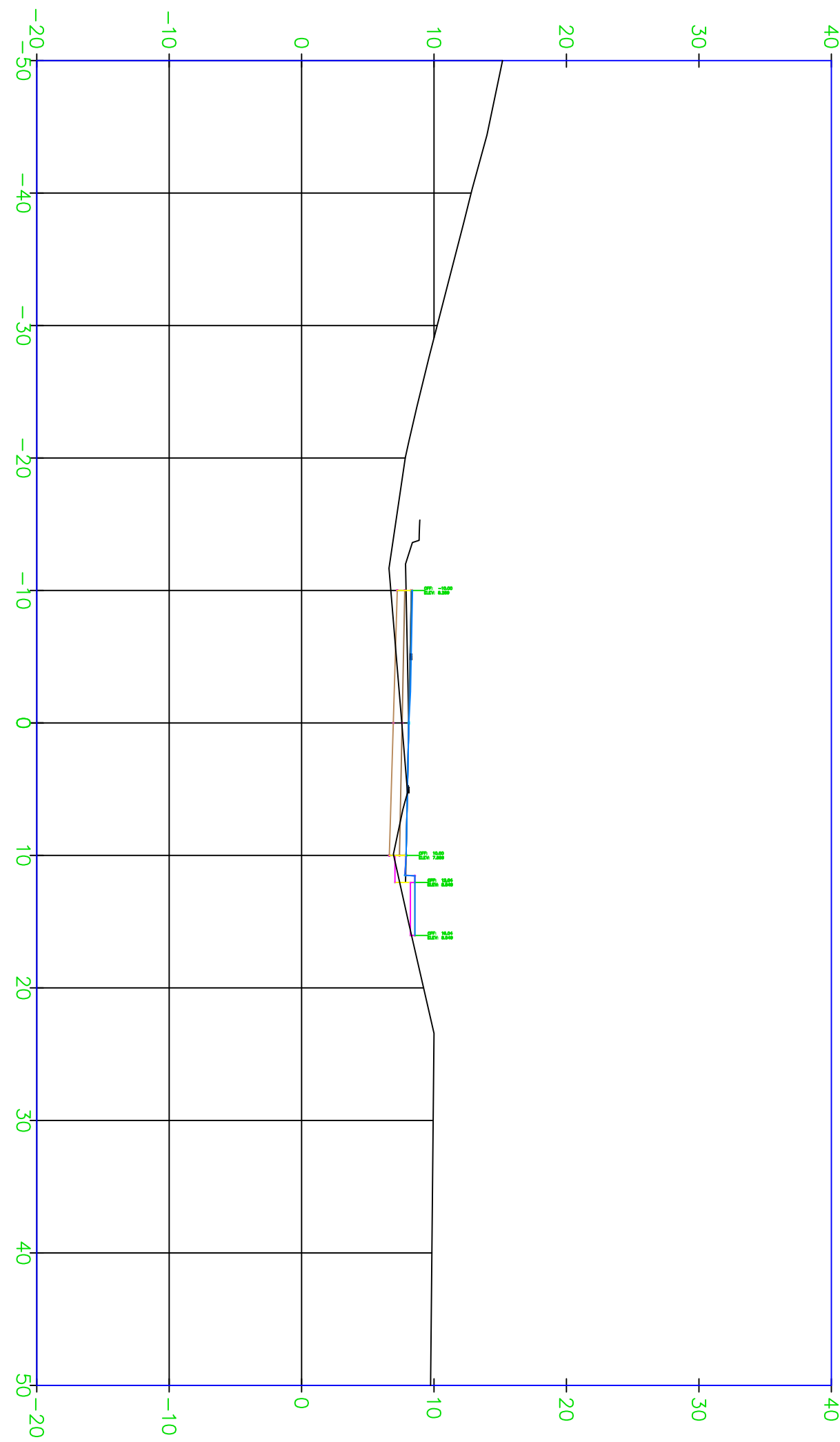




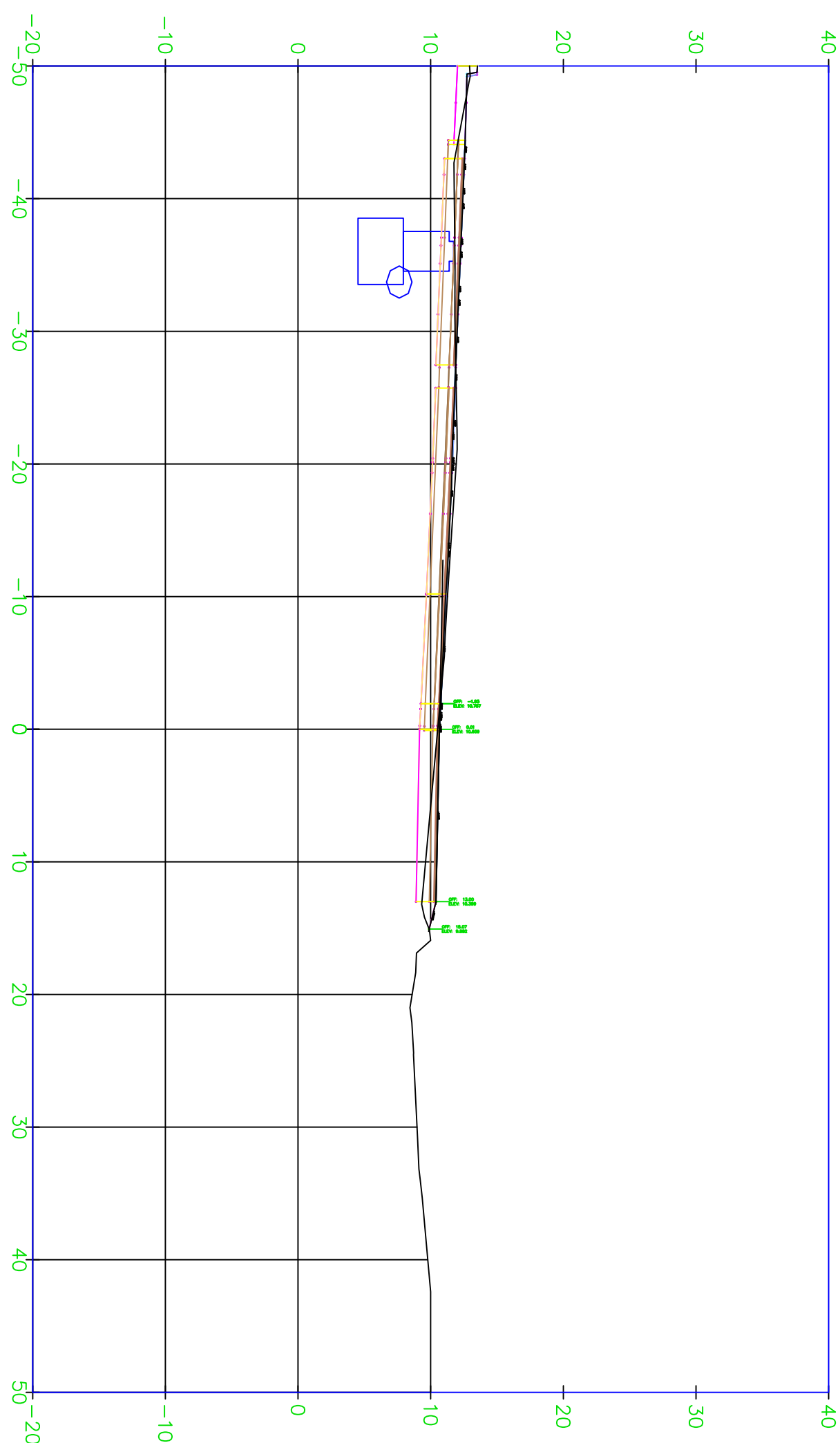
0+13.78



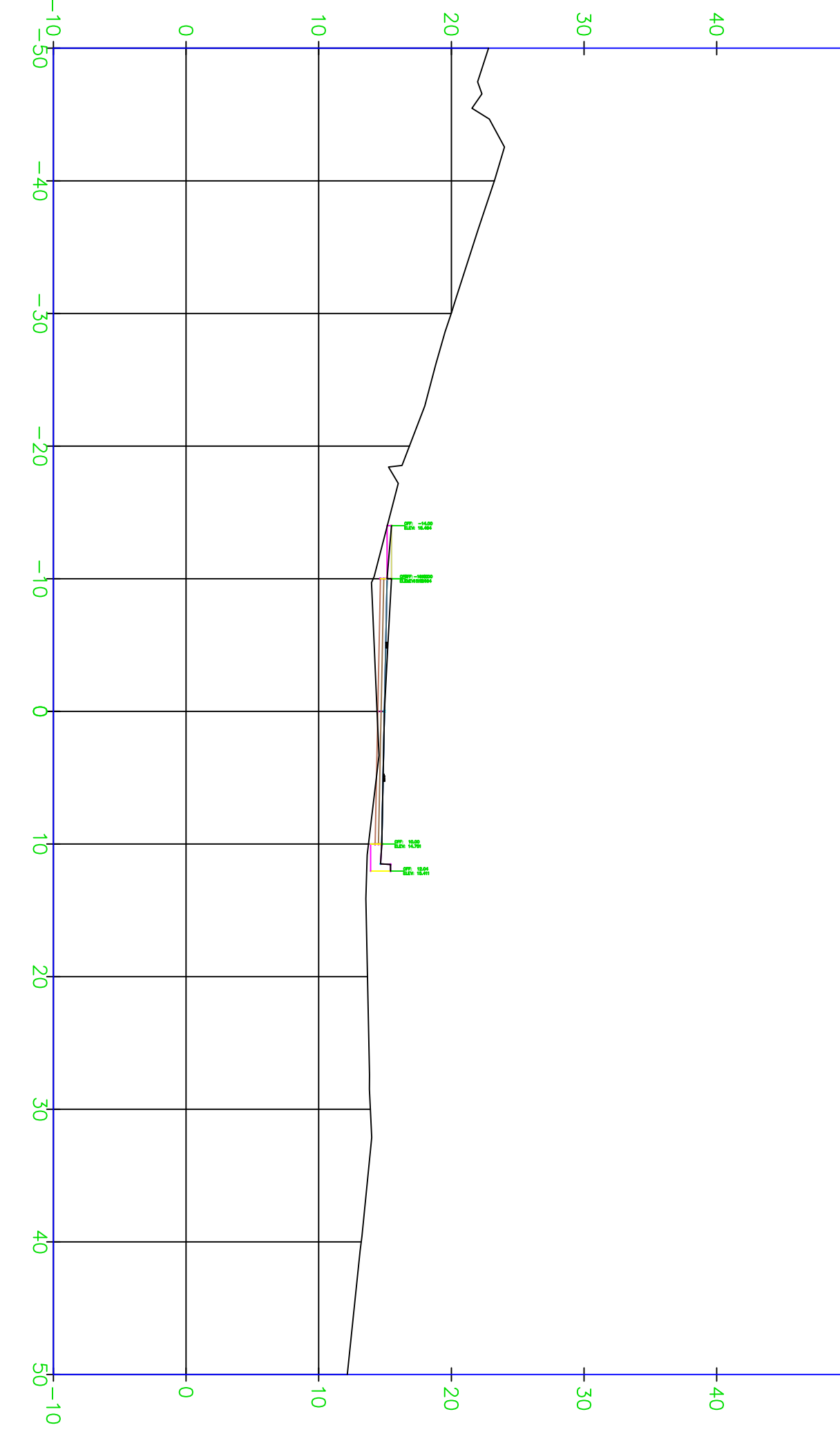
2+99.65



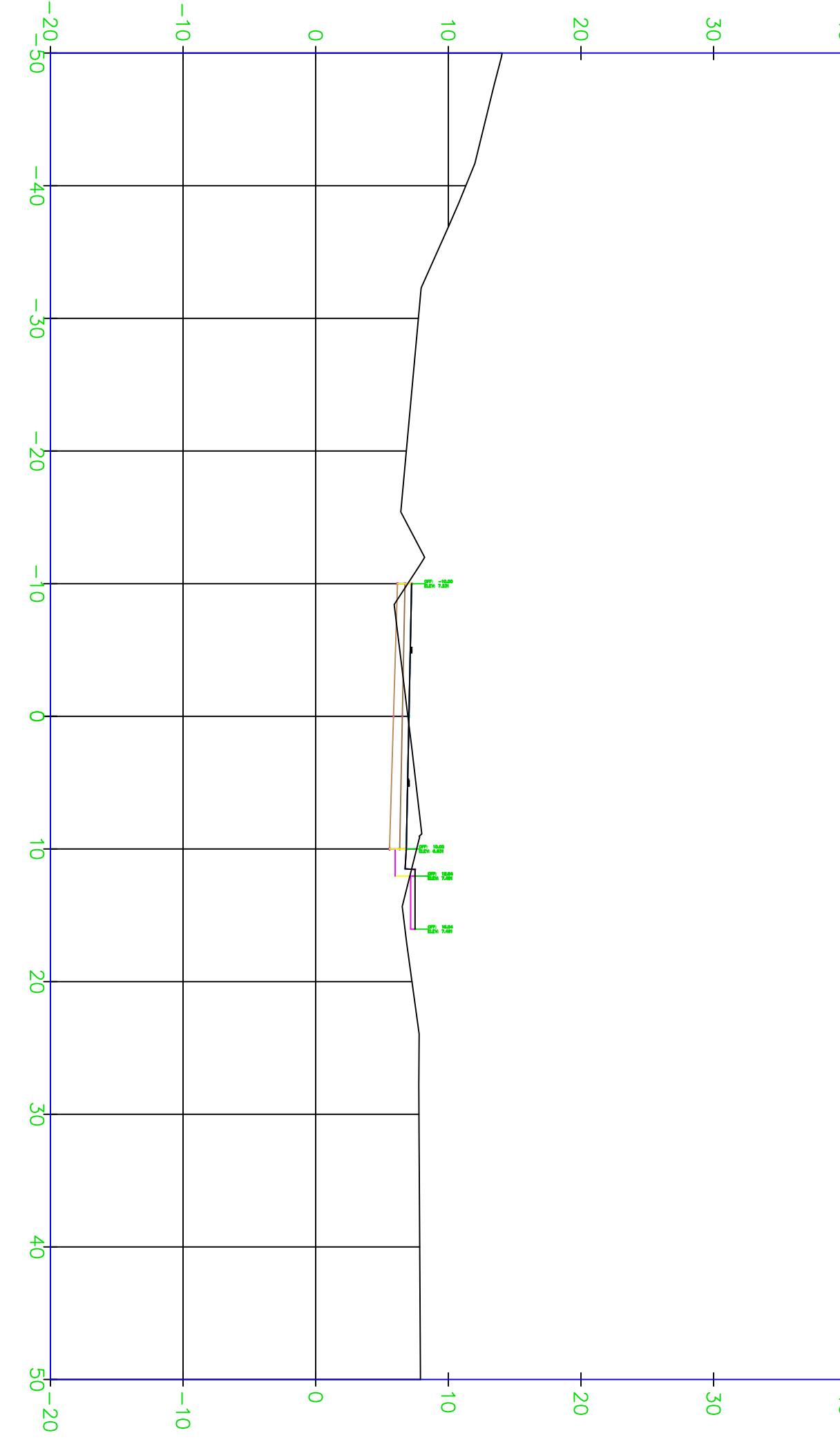
7+95.00



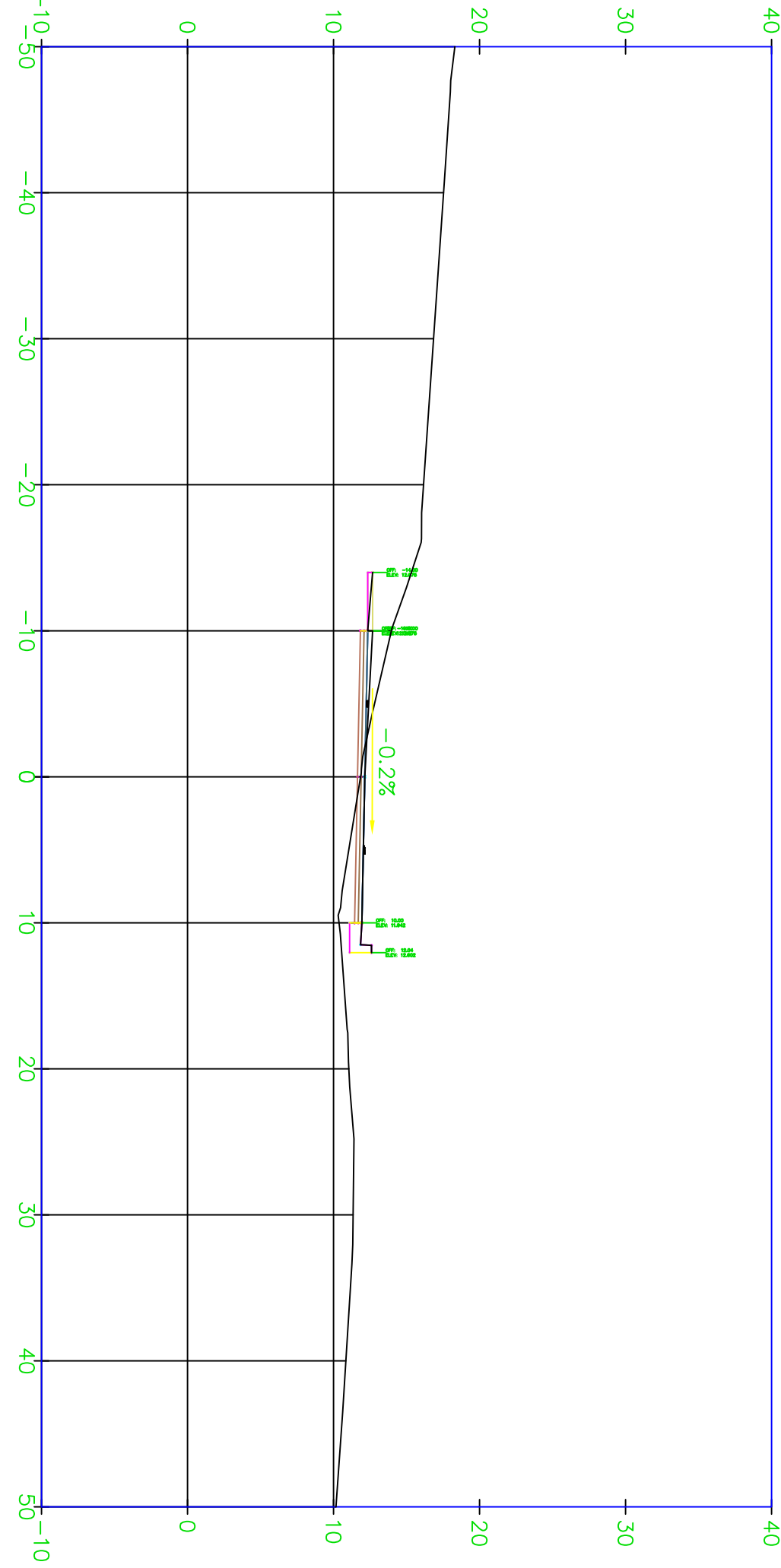
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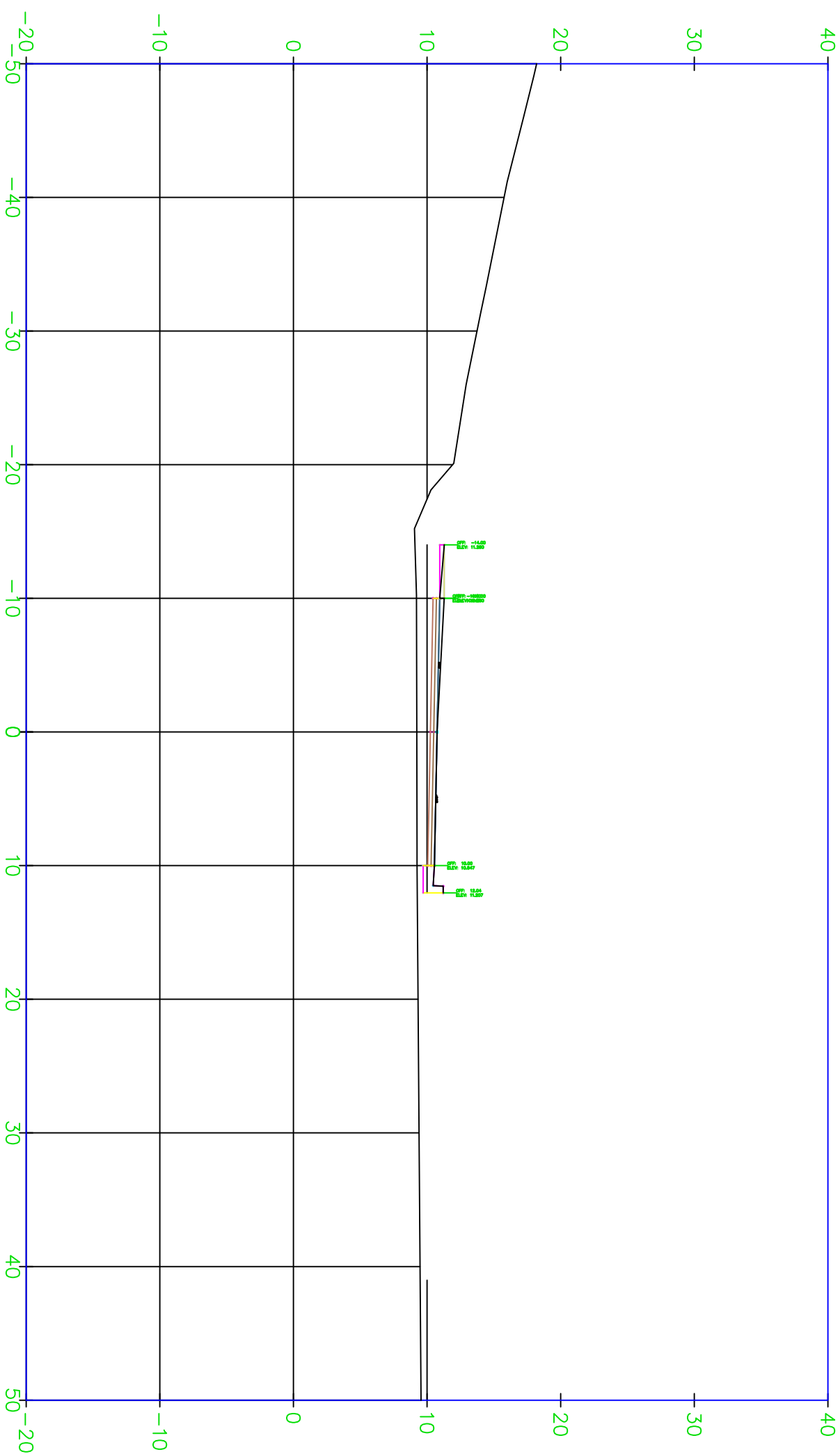
4+68.98



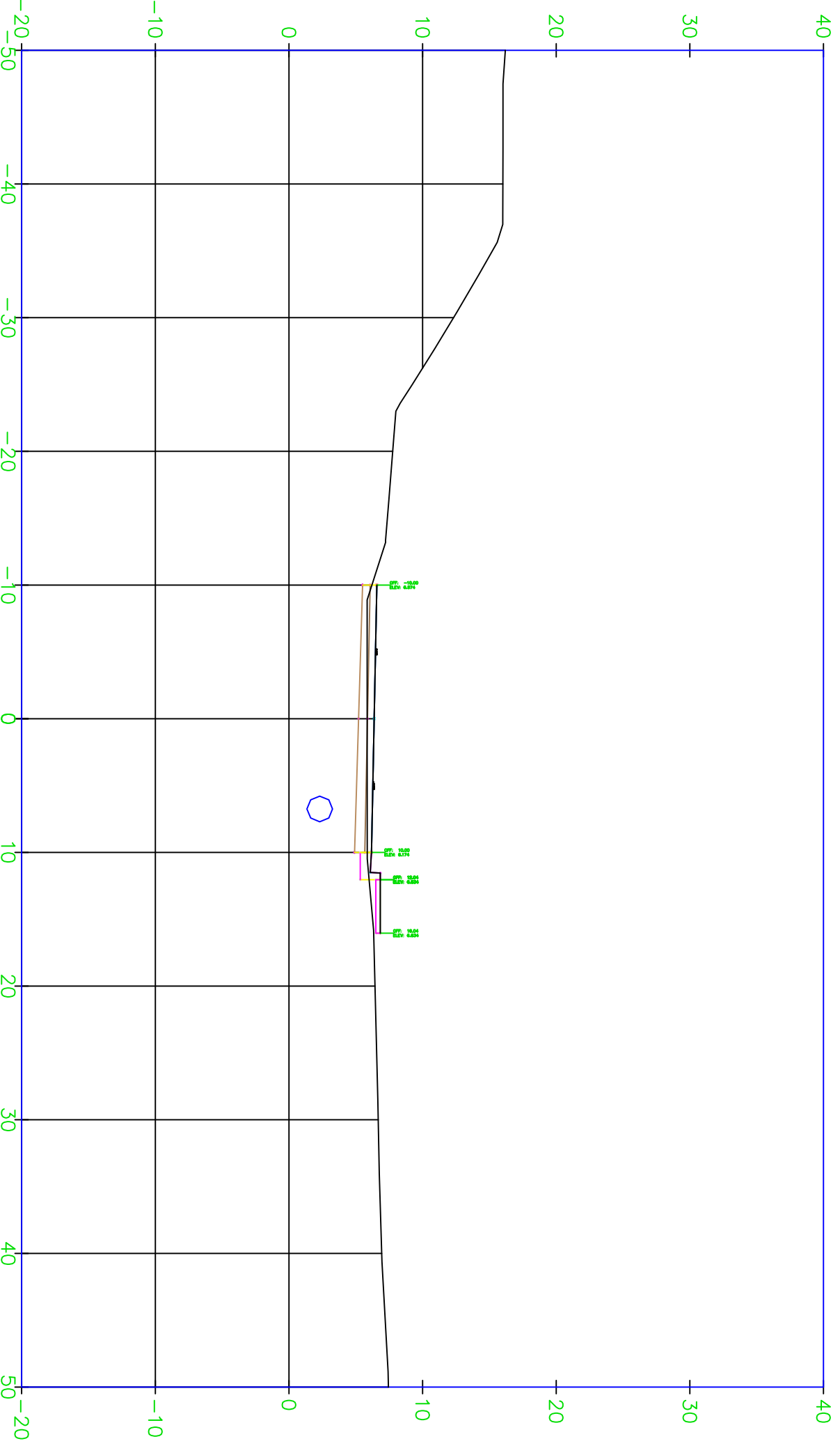
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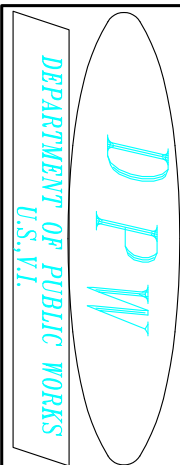
1+46.93



6+50.43



10+78.33



DEPARTMENT OF PUBLIC WORKS  
DIVISION OF ENGINEERING  
ST. THOMAS, U.S. VIRGIN ISLANDS

USVI 388

COMMISSIONER OF P.W.D.  
GUSTAV JAMES, P.E.  
DEPUTY COMMISSIONER OF ENGINEERING

CHIEF ENGINEER  
ASTON BOW EDDINS, P.E.  
DISTRICT ENGINEER

SUBMITTED BY:  
DRAWN BY: J4  
SCALE: 1" = 10'  
DATE: 6/6/2016

TYPICAL ROADWAY  
SECTIONS-1

DPW FILE NO.  
DIVISION OF ENGINEERING

PROJECT NO.  
ROAD FILE NAME

SHEET NO.  
C11 OF 19



