

REV.	DESCRIPTION	DATE

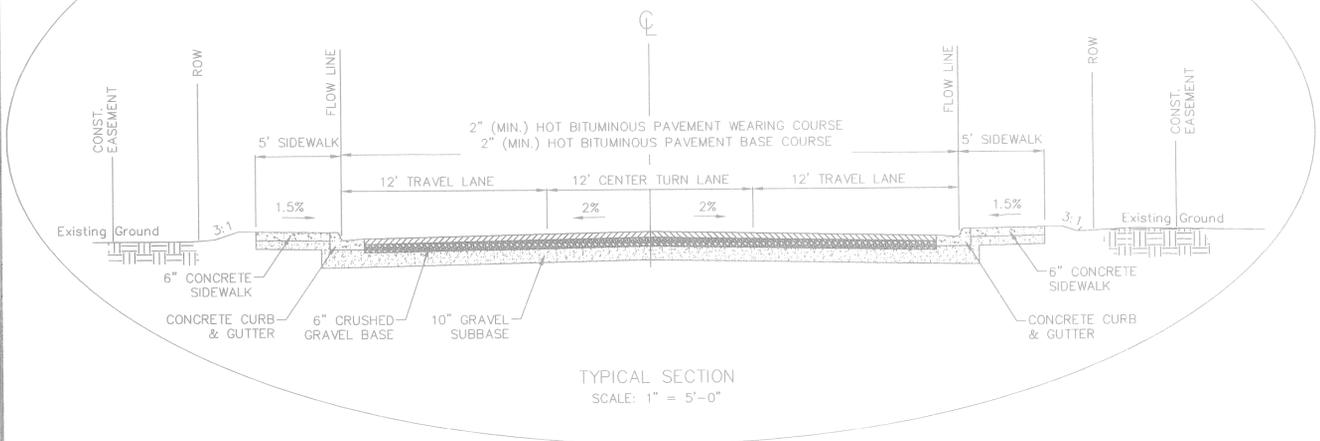
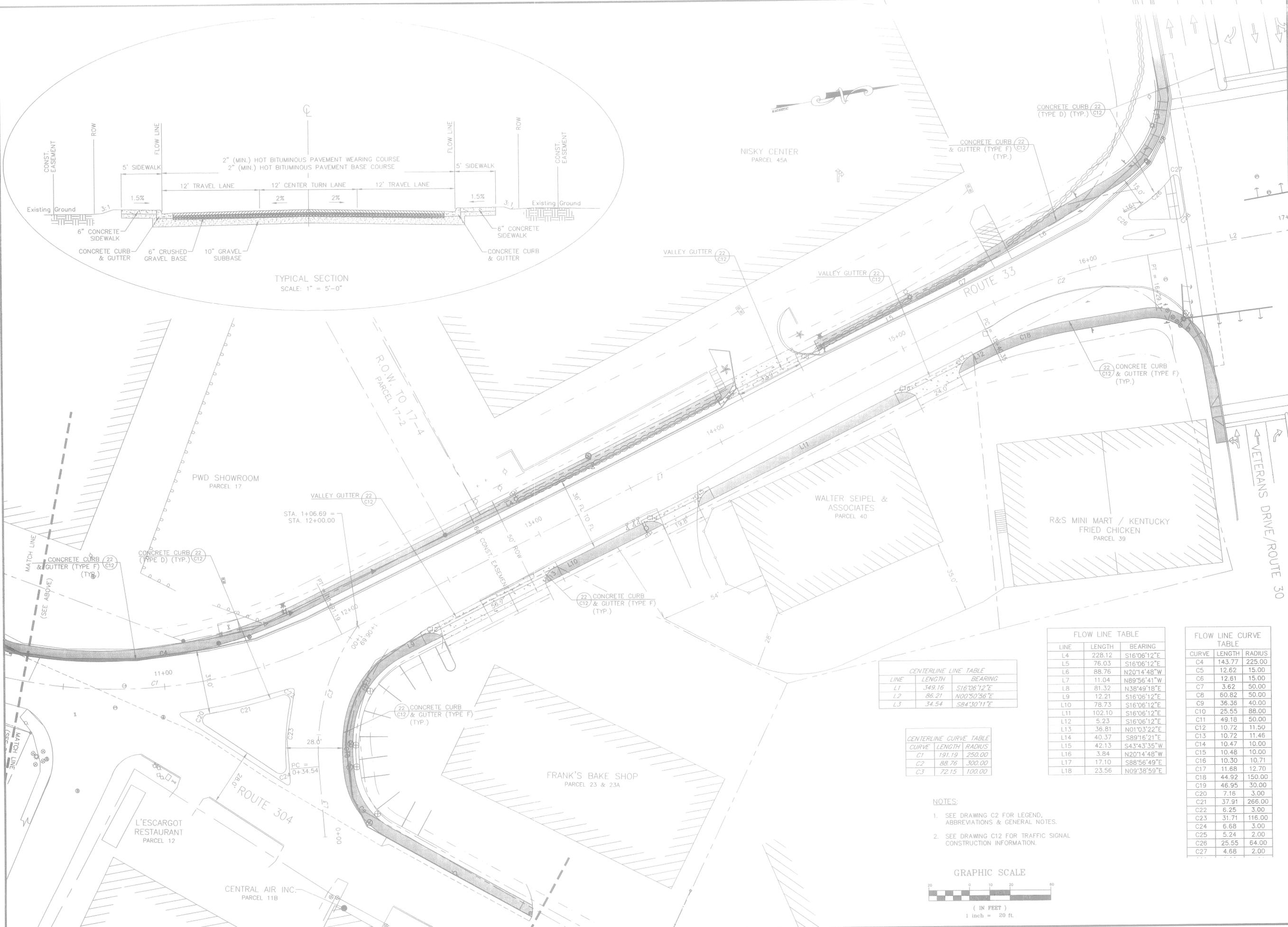
PROJECT NO. 663601
 FILE NAME: Ext Cond

HFA *Caribbean*
 Hoyle, Tanner & Associates, Inc.
 Nisky Center, East Wing - Suite 740 - St. Thomas, USVI 00802
 Phone (340) 777-4650 • Fax (340) 774-1666
 DATE: 1/26/09
 DES. BY PAC
 DR. BY MSB
 CKD. BY DUG

VIRGIN ISLANDS DPW
 ST. THOMAS, USVI
 ROUTE 33 ROADWAY
 AND PEDESTRIAN IMPROVEMENTS

EXISTING CONDITIONS PLAN
C3
 SHEET 3 OF 17

NOTES:
 1. SEE DRAWING C2 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.



CENTERLINE LINE TABLE

LINE	LENGTH	BEARING
L1	349.16	S16°06'12"E
L2	86.21	N00°50'56"E
L3	34.54	S84°30'11"E

CENTERLINE CURVE TABLE

CURVE	LENGTH	RADIUS
C1	191.19	250.00
C2	88.76	300.00
C3	72.15	100.00

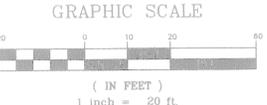
FLOW LINE TABLE

LINE	LENGTH	BEARING
L4	228.12	S16°06'12"E
L5	76.03	S16°06'12"E
L6	88.76	N20°14'48"W
L7	11.04	N89°56'41"W
L8	81.32	N38°49'18"E
L9	12.21	S16°06'12"E
L10	78.73	S16°06'12"E
L11	102.10	S16°06'12"E
L12	5.23	S16°06'12"E
L13	36.81	N01°03'22"E
L14	40.37	S89°16'21"E
L15	42.13	S43°43'35"W
L16	3.84	N20°14'48"W
L17	17.10	S88°56'49"E
L18	23.56	N09°38'59"E

FLOW LINE CURVE TABLE

CURVE	LENGTH	RADIUS
C4	143.77	225.00
C5	12.62	15.00
C6	12.61	15.00
C7	3.62	50.00
C8	60.82	50.00
C9	36.36	40.00
C10	25.55	88.00
C11	49.18	50.00
C12	10.72	11.50
C13	10.72	11.46
C14	10.47	10.00
C15	10.48	10.00
C16	10.30	10.71
C17	11.68	12.70
C18	44.92	150.00
C19	46.95	30.00
C20	7.16	3.00
C21	37.91	266.00
C22	6.25	3.00
C23	31.71	116.00
C24	6.68	3.00
C25	5.24	2.00
C26	25.55	64.00
C27	4.68	2.00

- NOTES:**
- SEE DRAWING C2 FOR LEGEND, ABBREVIATIONS & GENERAL NOTES.
 - SEE DRAWING C12 FOR TRAFFIC SIGNAL CONSTRUCTION INFORMATION.

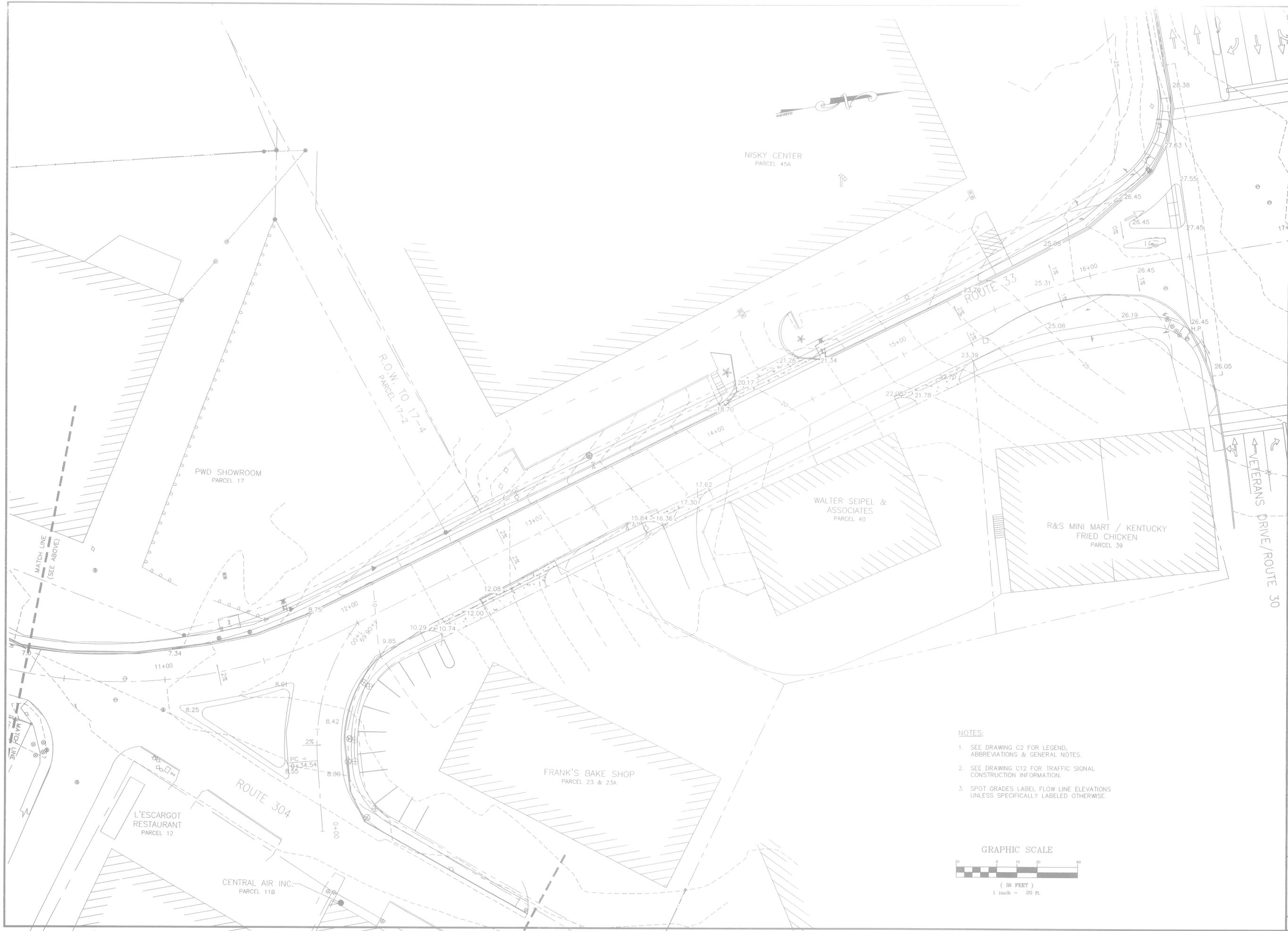


DEPARTMENT OF PUBLIC WORKS
OFFICE OF HIGHWAY ENGINEERING

VIRGIN ISLANDS DPW
ST. THOMAS, USVI
ROUTE 33 ROADWAY
AND PEDESTRIAN IMPROVEMENTS

CURB & PAVEMENT LAYOUT PLAN

C5



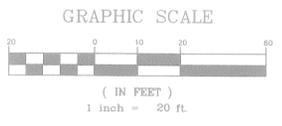
REV.	DESCRIPTION

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OFFICE OF HIGHWAY ENGINEERING

VIRGIN ISLANDS DPW
ST. THOMAS, USVI
ROUTE 33 ROADWAY
AND PEDESTRIAN IMPROVEMENTS

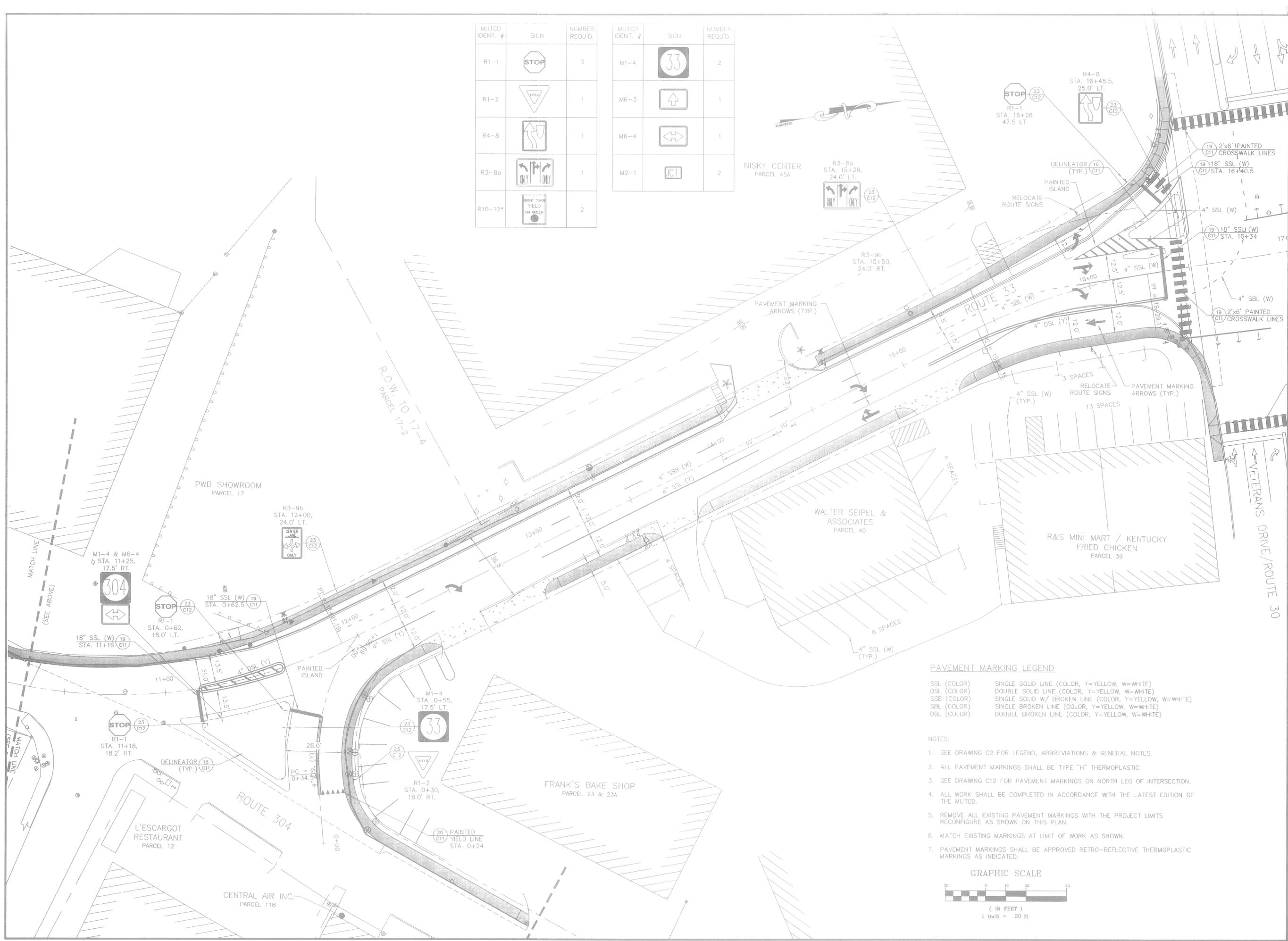
GRADING & DRAINAGE PLAN
C6
SHEET 6 OF 17

- NOTES:
1. SEE DRAWING C2 FOR LEGEND, ABBREVIATIONS & GENERAL NOTES.
 2. SEE DRAWING C12 FOR TRAFFIC SIGNAL CONSTRUCTION INFORMATION.
 3. SPOT GRADES LABEL FLOW LINE ELEVATIONS UNLESS SPECIFICALLY LABELED OTHERWISE.





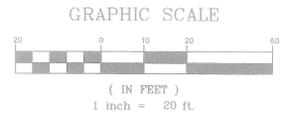
MUTCD IDENT. #	SIGN	NUMBER REQU'D.	MUTCD IDENT. #	SIGN	NUMBER REQU'D.
R1-1	STOP	3	M1-4	33	2
R1-2	YIELD	1	M6-3	UP ARROW	1
R4-8	RIGHT TURN ONLY	1	M6-4	LEFT TURN ONLY	1
R3-8a	ONLY	1	M2-1	ICT	2
R10-12*	RIGHT TURN YIELD ON GREEN	2			



PAVEMENT MARKING LEGEND

SSL (COLOR)	SINGLE SOLID LINE (COLOR, Y=YELLOW, W=WHITE)
DSL (COLOR)	DOUBLE SOLID LINE (COLOR, Y=YELLOW, W=WHITE)
SSB (COLOR)	SINGLE SOLID W/ BROKEN LINE (COLOR, Y=YELLOW, W=WHITE)
SBL (COLOR)	SINGLE BROKEN LINE (COLOR, Y=YELLOW, W=WHITE)
DBL (COLOR)	DOUBLE BROKEN LINE (COLOR, Y=YELLOW, W=WHITE)

- NOTES:**
- SEE DRAWING C2 FOR LEGEND, ABBREVIATIONS & GENERAL NOTES.
 - ALL PAVEMENT MARKINGS SHALL BE TYPE "H" THERMOPLASTIC.
 - SEE DRAWING C12 FOR PAVEMENT MARKINGS ON NORTH LEG OF INTERSECTION.
 - ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD.
 - REMOVE ALL EXISTING PAVEMENT MARKINGS WITH THE PROJECT LIMITS RECONFIGURE AS SHOWN ON THIS PLAN.
 - MATCH EXISTING MARKINGS AT LIMIT OF WORK AS SHOWN.
 - PAVEMENT MARKINGS SHALL BE APPROVED RETRO-REFLECTIVE THERMOPLASTIC MARKINGS AS INDICATED.

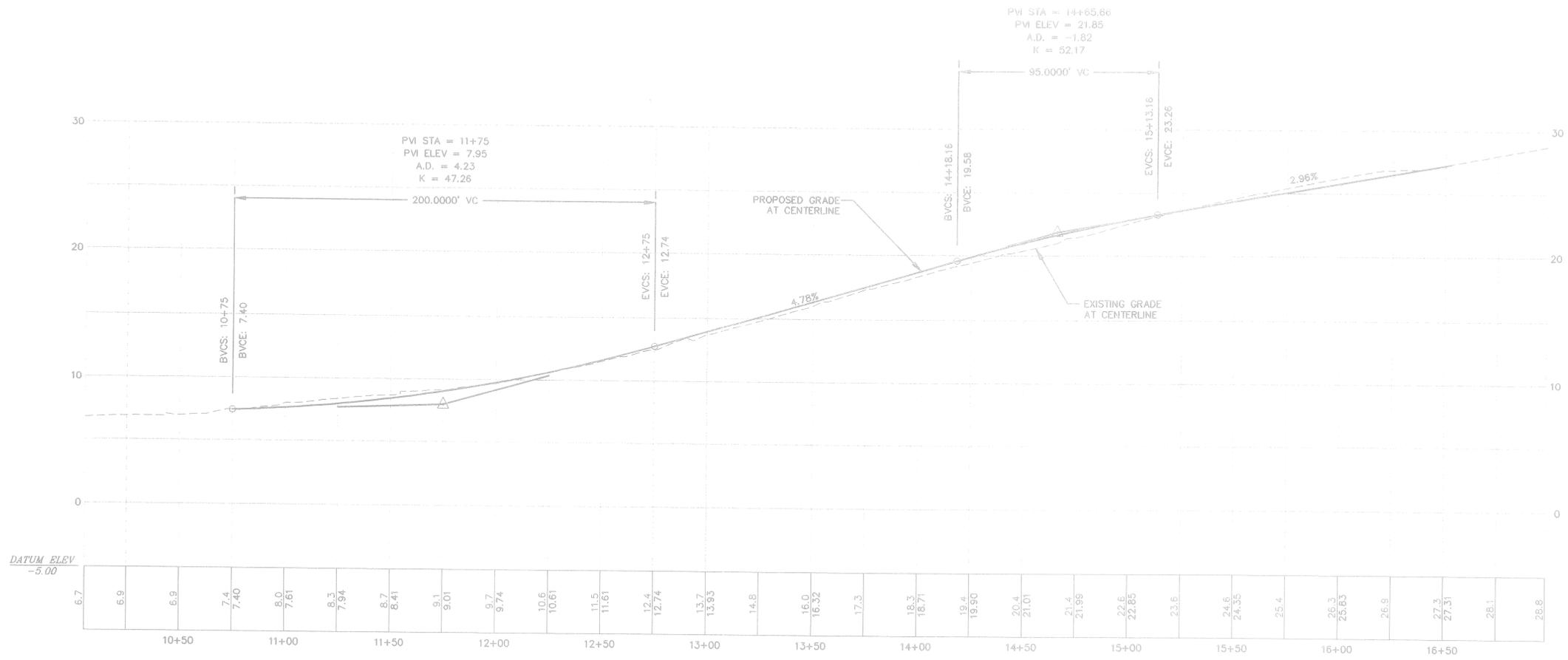


DEPARTMENT OF PUBLIC WORKS
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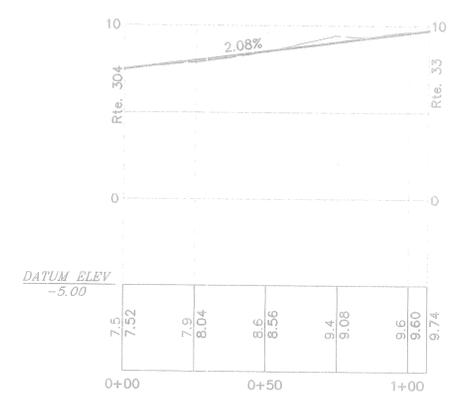
VIRGIN ISLANDS DPW
 ST. THOMAS, USVI
 ROUTE 33 ROADWAY
 AND PEDESTRIAN IMPROVEMENTS

PAVEMENT MARKING AND SIGNAGE PLAN

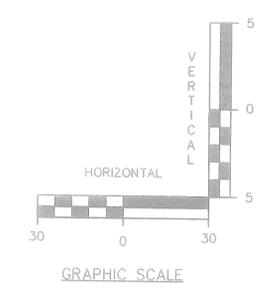
C7



ROUTE 33



ROUTE 33 AT ROUTE 304



PROJECT NO.
 663601

FILE NAME:
 Profiles

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VIRGIN ISLANDS DPW
 ST. THOMAS, USVI
 ROUTE 33 ROADWAY
 AND PEDESTRIAN IMPROVEMENTS

PROFILE
 C8

SHEET 8 OF 17

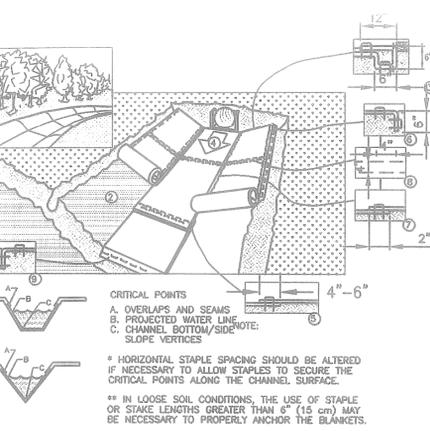
REV.	DESCRIPTION	DR.	CHKD.	APPD.	DATE

DR.	BY	MSB

DES.	BY	PAC

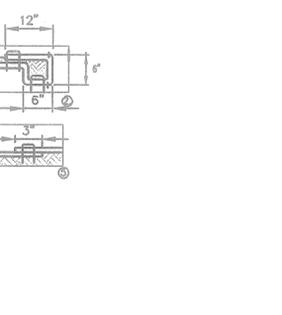
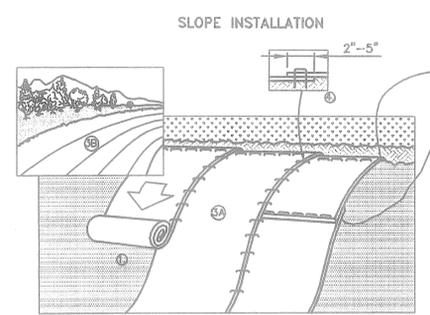
DATE: 1/26/09

CHKD.	BY	DUG



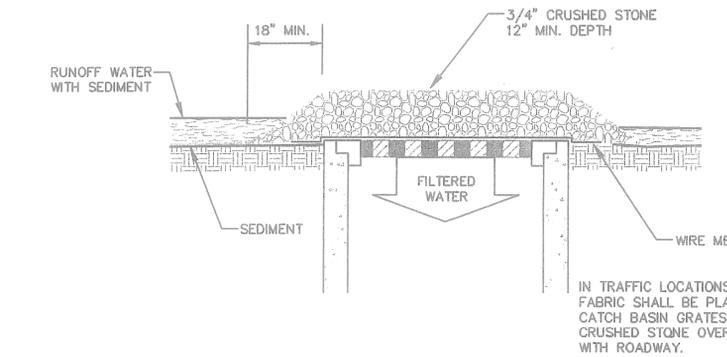
- 1. Install product in accordance with manufacturer's specifications.**
- 2. Prepare soil before installing blankets, including any necessary application of lime, fertilizer, and seed. Note: when using cell-o-seed, do not seed prepared area. Cell-o-seed must be installed with the paper side down.**
- 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/staples 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/staples 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/staples in appropriate locations as shown in the staple pattern guide. When using optional dot system, staples/staples should be placed through each of the colored dots corresponding to the appropriate staple pattern.**
- 5. Place consecutive blankets end over end (shingle style) with a 4"-5" overlap. Use a double row of staples staggered 4" apart and 4"(10") on center to secure blankets.**
- 6. Full-length edges of blankets of top of side slopes must be anchored with a row of staples/staples approximately 12" apart in a 6" deep x 6" wide trench. Backfill and compact the trench after stapling.**
- 7. Adjacent blankets must be overlapped approximately 2"-5" (depending on blanket type) and stapled 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.**
- 8. In high flow channel applications, a staple shot 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.**
- The terminal end of the blankets must be anchored with a row of staples/staples approximately 12" apart in a 6" deep x 6" wide trench. Backfill and compact the trench after stapling.

1 ROLLED EROSION CONTROL MATTING
SCALE: NONE

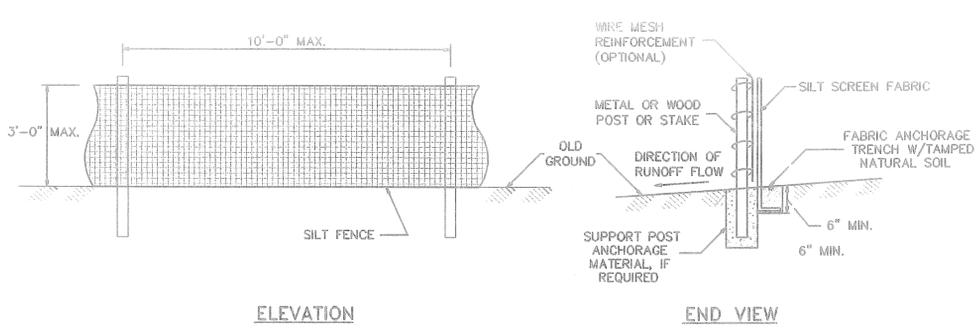


- 1. Prepare soil before installing blankets, including any necessary application of lime, fertilizer, and seed. Note: when using cell-o-seed do not seed prepared area. Cell-o-seed must be installed with paper side down.**
- 2. Begin at the top of the slope by anchoring the blanket in a 6" deep x 6" wide trench with approximately 12" of blanket extended beyond the up-slope portion of the trench. Anchor the blanket with a row of staples/staples 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/staples 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 securely fastened to soil surface by placing staples/staples in appropriate locations as shown in the staple pattern guide. When using optional dot system, staples/staples should be placed through each of the colored dots corresponding to the appropriate staple pattern.**
- 4. The edges of parallel blankets must be stapled 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 applied 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 staple lengths greater than 6" may be necessary to properly secure the blankets.**
- 7. Install product in accordance with manufacturer's specifications.**

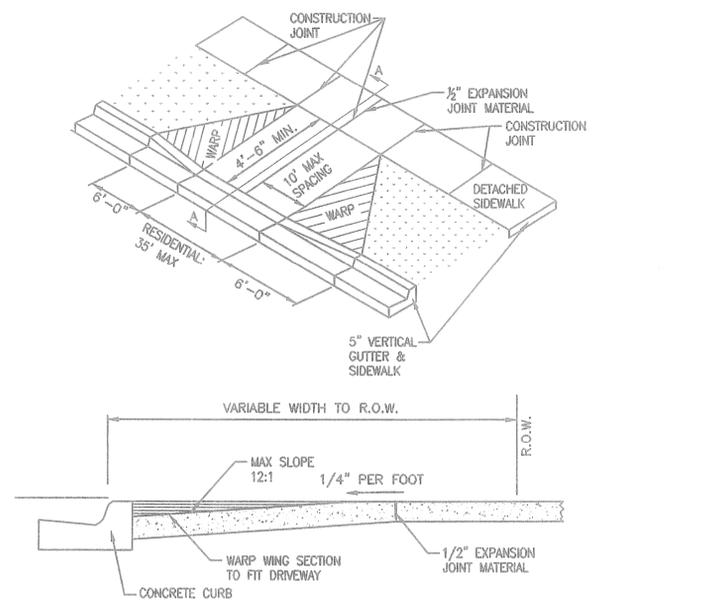
3 SLOPE PROTECTION EROSION CONTROL MATTING
SCALE: NONE



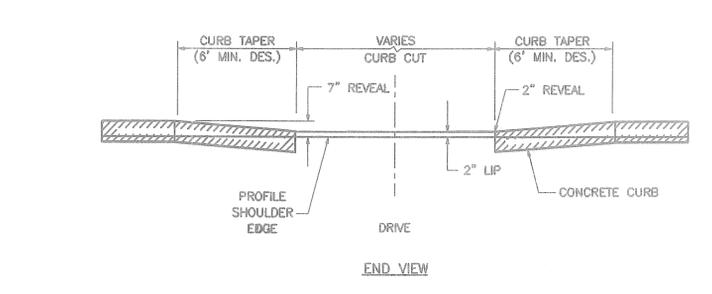
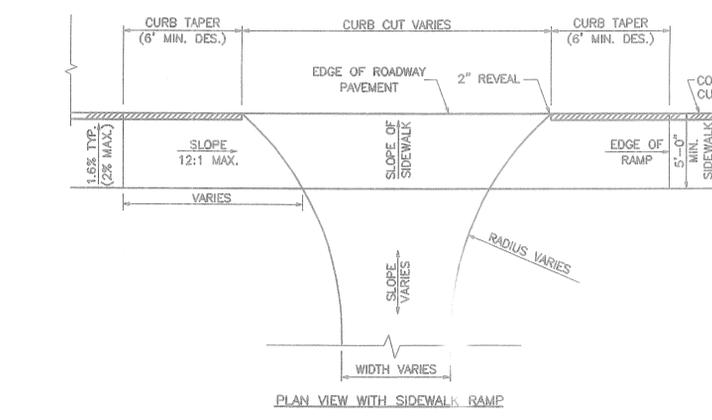
5 CATCH BASIN EROSION PROTECTION
SCALE: NONE



2 SILTS FENCE DETAIL
SCALE: NONE



4 DRIVEWAY SECTION FOR 6\"/>



6 TYPICAL URBAN CURBED DRIVE IN CUT/FILL SECTION
SCALE: NONE

EROSION CONTROL NOTES:

GENERAL NOTES
ALL WORK ASSOCIATED WITH TEMPORARY EROSION CONTROL WILL BE INCLUDED IN THE CONTRACTORS LUMP SUM BID PRICE.

ALL EROSION CONTROL MEASURE SHALL CONFORM TO THE GUIDELINES AND REQUIREMENTS PROVIDED IN THE VIRGIN ISLANDS ENVIRONMENTAL PROTECTION HANDBOOK, 2002. THE HANDBOOK MAY BE DOWNLOADED ONLINE OR PURCHASED FROM THE UNIVERSITY OF THE VIRGIN ISLANDS, COOPERATIVE EXTENSION SERVICE.

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. CONFINE PERIOD OF DISTURBED AND UNSTABILIZED SOILS TO A MAXIMUM OF FORTY-FIVE DAYS. ALL DITCHES AND SWALES ARE REQUIRED TO BE STABILIZED PRIOR TO DIRECT RECEIPT OF ANY FLOW.

INSTALL SILT FENCE WHERE SHOWN PRIOR TO CONSTRUCTION START. 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 APPLICABLE SURFACE MATERIAL. ALL PONDS ARE TO BE CONSTRUCTED AND STABILIZED PRIOR TO ANY OTHER DRAINAGE SYSTEM WORK, INCLUDING DITCH AND SWALE EXCAVATION.

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

THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH THE REQUIREMENTS RELATIVE TO THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PROGRAM AS ADMINISTERED BY THE ENVIRONMENTAL PROTECTION AGENCY. THIS PROJECT MAY BE SUBJECT TO NOTICE OF INTENT, NOTICE OF TERMINATION, AND OTHER PROJECT RECORDS BY THE CONTRACTOR AS REQUIRED.

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

STRUCTURAL MEASURES

SILT SCREEN FENCES: SILT SCREEN 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. STRAW SILT SCREEN FENCES WILL FUNCTION 6 MONTHS OR LONGER IF KEPT FREE OF SEDIMENT ACCUMULATIONS (SEE DETAILS FOR ADDITIONAL INFORMATION).

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 SEEDED SCOPE 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, TIMBER OR STRAW OR HAY BALES. STONE STRUCTURES, WHEN USED, SHALL CONSIST OF 2- TO 3-INCH STONE.

A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED OF 2-3 INCH STONE ACROSS THE FULL WIDTH OF THE VEHICLE INGRESS EGRESS AREA. THE STONE PAD SHOULD BE AT LEAST 50 FEET LONG, 24 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: (REFER TO FP-03 SUBSECTION 626.13).

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.

ALL DIVERSION CHANNELS AND SWALES WILL BE CHECKED WEEKLY AND REPAIRED WHEN NECESSARY UNTIL ADEQUATE VEGETATION IS ESTABLISHED.

ALL SILT SCREEN FENCES WILL BE CHECKED WEEKLY. NECESSARY REPAIRS WILL BE MADE TO CORRECT UNDERMINING OR DETERIORATION OF THE BARRIER.



REV.	DESCRIPTION	DR.	CHKD. BY	DATE

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DR.	MSB	CHKD. BY	DUG
DES.	PAC	DATE:	1/26/09

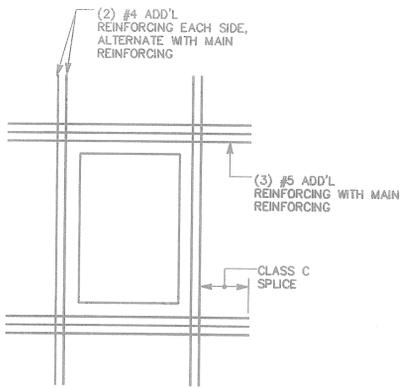
HFA
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Phone (360) 777-6650 • Fax (360) 777-0660

VIRGIN ISLANDS DPW
ST. THOMAS, USVI

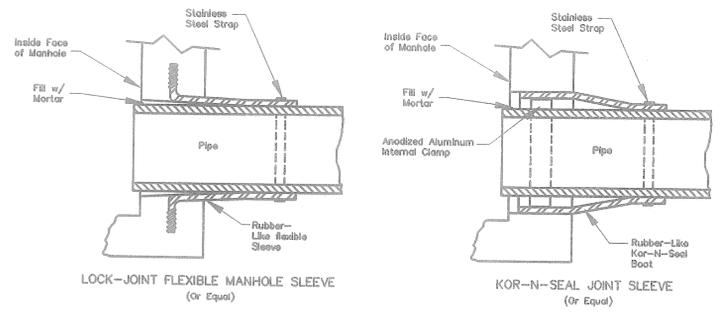
ROUTE 33 ROADWAY
AND PEDESTRIAN IMPROVEMENTS

CONSTRUCTION
DETAILS

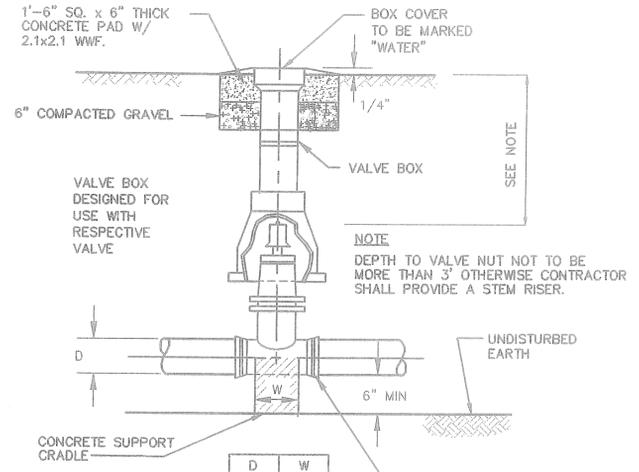
C9



DROP INLET SLAB VIEW

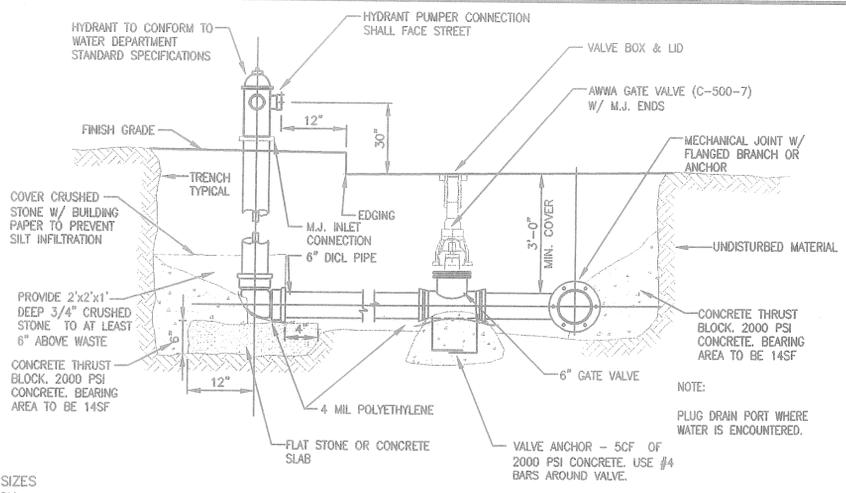


8 TYPICAL MANHOLE SLEEVE DETAILS
C10 SCALE: NONE

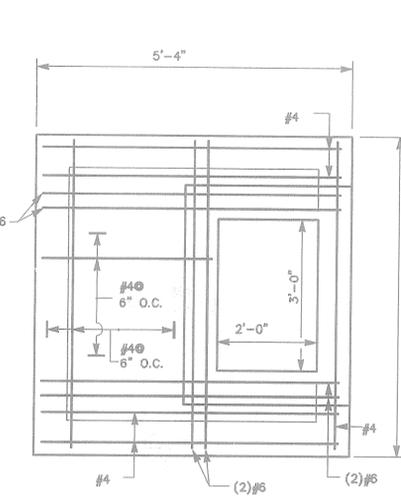


9 WATER VALVE DETAIL
C10 SCALE: NONE

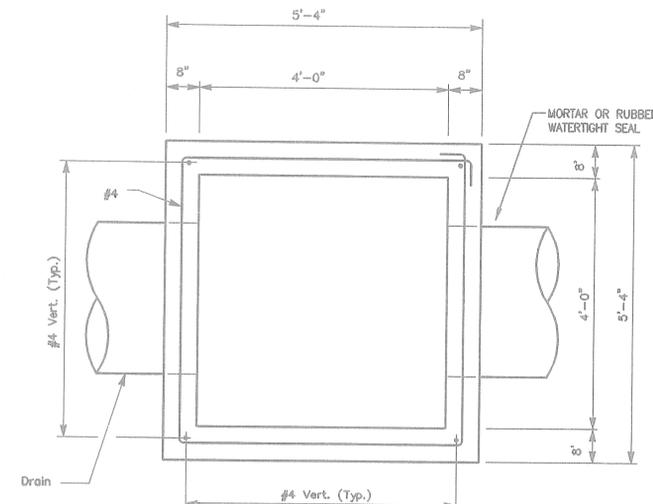
D (IN)	W (IN)
6	5
8	5
10	9
12	9



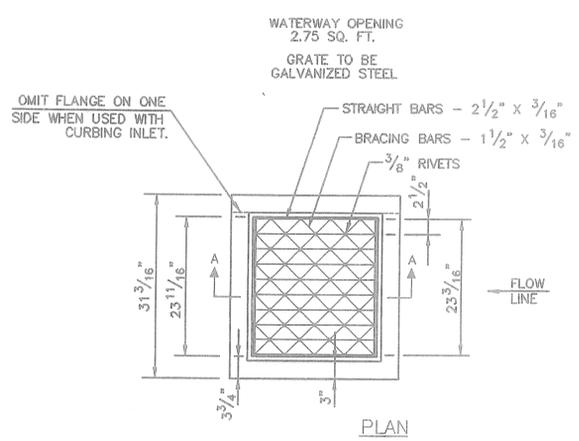
10 TYPICAL HYDRANT SETTING
C10 SCALE: NONE



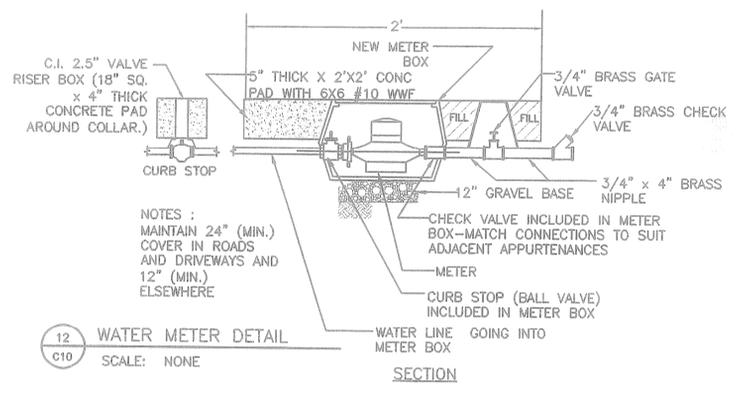
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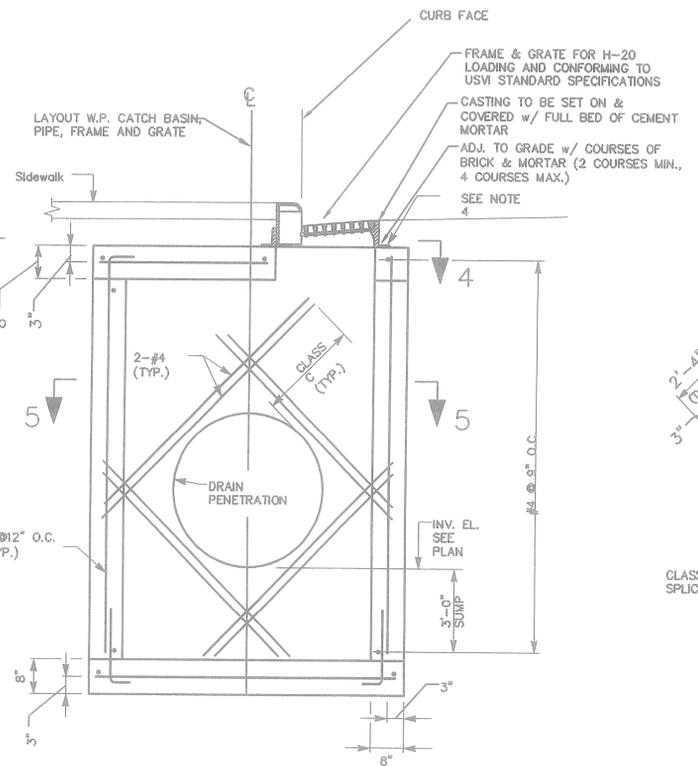
SECTION 5-5



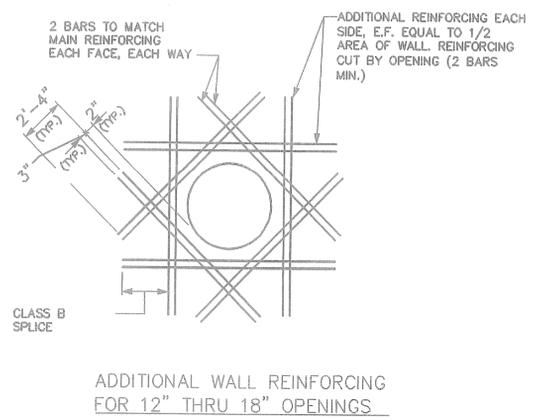
PLAN



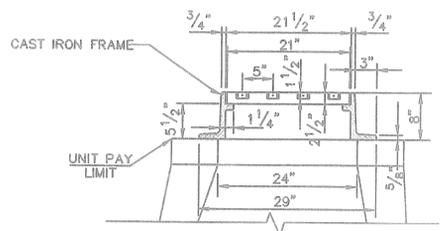
12 WATER METER DETAIL
C10 SCALE: NONE



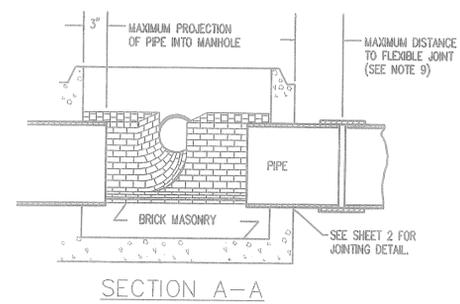
7 CATCH BASIN TYPE 4'-0" X 4'-0"
C10 SCALE: NONE



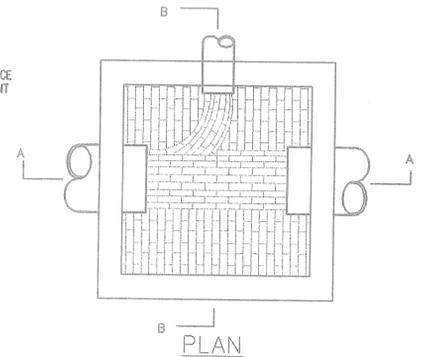
ADDITIONAL WALL REINFORCING FOR 12" THRU 18" OPENINGS



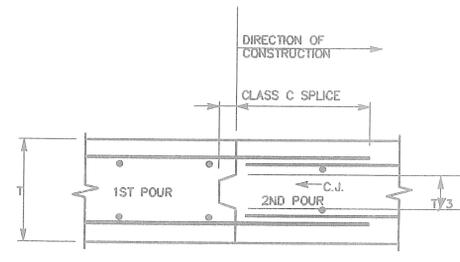
11 FRAME & GRATE
C10 SCALE: NONE



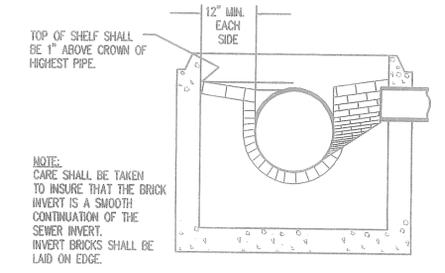
SECTION A-A



SECTION B-B



13 TYPICAL CONSTRUCTION JOINT
C10 SCALE: NONE



14 BRICK INVERT (PLAN & SECTION)
C10 SCALE: NONE

PROJECT NO. 663601
FILE NAME: Details

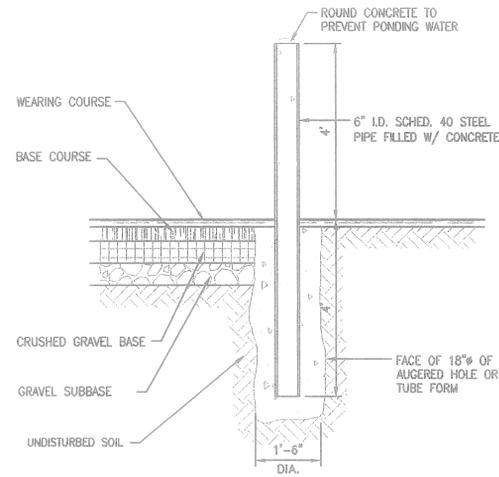
HHA Caribbean
Hoyle, Tanner & Associates, Inc.
Nassau Center, East Wing - Suite 740 - St. Thomas, USVI 00802
Phone: (340) 777-8650 • Fax: (340) 774-1888
DES. BY: DR. BY: CHKD. BY:

VIRGIN ISLANDS DPW
ST. THOMAS, USVI
ROUTE 33 ROADWAY
AND PEDESTRIAN IMPROVEMENTS

CONSTRUCTION DETAILS

C10

SHEET 10 OF 17



15 STEEL PIPE BOLLARD
C11 SCALE: NONE C3003

GENERAL STRUCTURAL NOTES

1. ALL MATERIALS, WORKMANSHIP AND DETAILS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS", FP-92. THE CONTRACTOR SHALL BECOME FAMILIAR WITH ALL SURVEY.
2. UTILITY, MECHANICAL AND ELECTRICAL DRAWINGS TO VERIFY THE LOCATION AND DIMENSIONS OF CHASES, INSERTS, OPENINGS, SLEEVES, PIPES, CONDUITS AND OTHER PROJECT REQUIREMENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS. OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL NOT BE
3. REVISED WITHOUT WRITTEN APPROVAL FROM THE ENGINEER. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS AND CONDITIONS AND NOTIFY THE SITE ENGINEER OF ANY DISCREPANCIES.
4. THE TYPICAL DETAILS SHOWN ON THE DRAWINGS SHALL BE APPLICABLE TO ALL PARTS OF THE CONTRACT DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE.

DESIGN LOADS

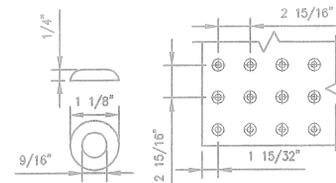
LIVE LOADS: AASHTO HS-20 TRUCK LOAD

CONCRETE

1. CONCRETE SHALL BE CLASS A, 3000 PSI 28-DAY COMPRESSIVE STRENGTH, CONSTRUCTION JOINTS SHOWN ON THE CONTRACT DRAWINGS SHALL NOT BE ALTERED WITHOUT WRITTEN APPROVAL OF THE ENGINEER. FOR AREAS NOT SHOWN, PROVIDE CONSTRUCTION JOINTS EVERY 9.14 METERS. (REFER TO FP-03 SECTION 601-1).
2. DRAWINGS SHOWING THE LOCATION OF CONSTRUCTION JOINTS, CONTROL JOINTS AND PLACING SEQUENCE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE PREPARATION OF REINFORCING SHOP DRAWINGS.

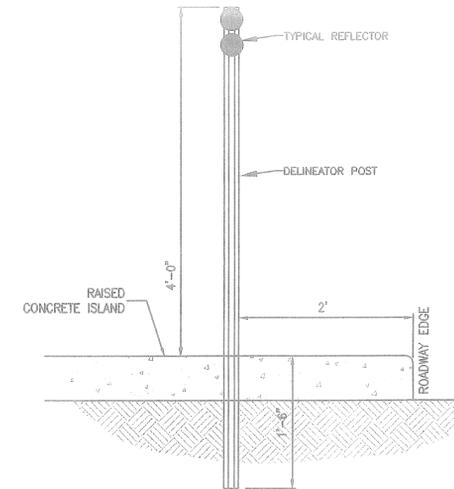
REINFORCEMENT

1. REINFORCEMENT FABRICATOR SHALL PROVIDE AND SCHEDULE ON SHOP DRAWINGS ALL REQUIRED REINFORCING STEEL AND THE NECESSARY ACCESSORIES TO HOLD REINFORCEMENT SECURELY IN PLACE AT THE CORRECT LOCATIONS.
2. WHERE REINFORCEMENT IS REQUIRED IN SECTIONS, REINFORCEMENT IS CONSIDERED TYPICAL WHEREVER SECTION APPLIES.
3. CONTRACTOR SHALL NOTIFY ENGINEER OF COMPLETION OF REINFORCEMENT INSTALLATION AT LEAST 24 HOURS BEFORE SCHEDULED CONCRETE PLACEMENT FOR INSPECTION OF REINFORCEMENT.
4. ALL LAP SPLICES ARE CLASS B UNLESS OTHERWISE NOTED.



NOTES

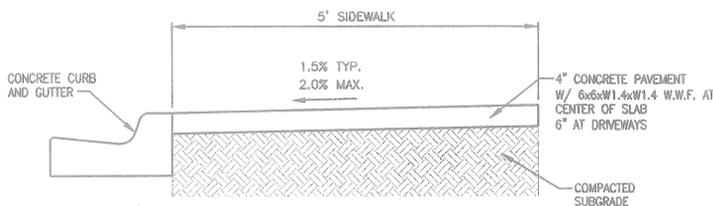
1. SLOPE OF RAMP VARIES WITH SIDEWALK WIDTH AND HEIGHT, WITH A MAXIMUM SLOPE OF 12:1.
2. INSTALL AN ADA CAST IRON DETECTABLE WARNING TRUNCATED DOME FINISH TO TRANSVERSE THE SLOPE OF THE RAMP AND WARPED SIDEWALK. THIS SHALL BE USED ON ALL RAMP.
3. MAINTAIN THE NORMAL GUTTER PROFILE THROUGHOUT THE RAMP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



NOTE:

1. ALL SIGNAGE SHALL BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE MUTCD.

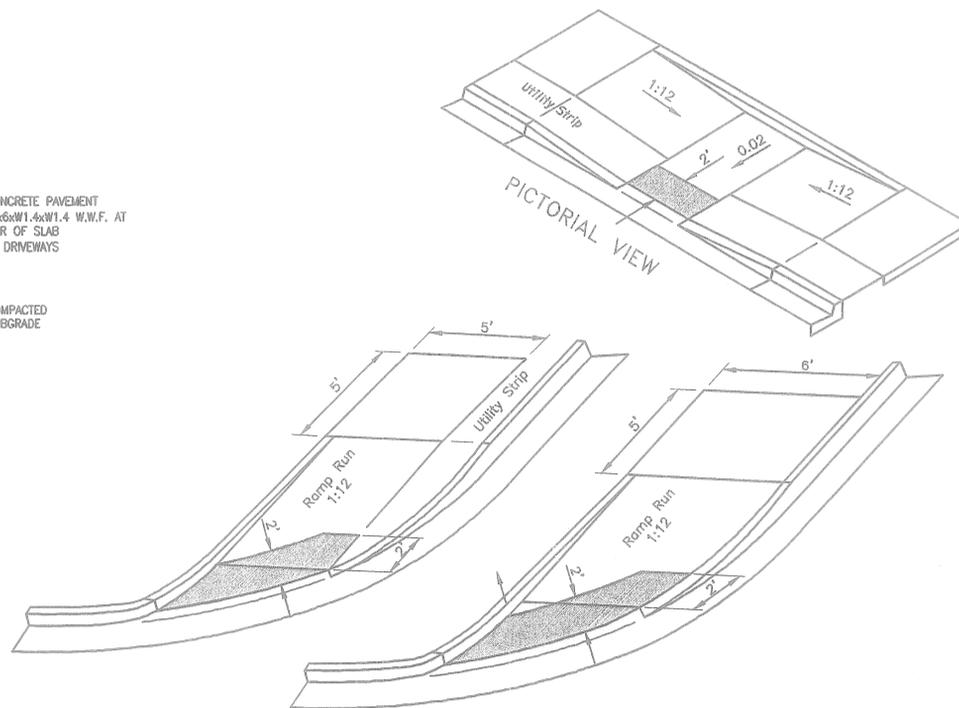
16 DELINEATOR POST
C11 SCALE: NONE



17 TYPICAL CONCRETE SIDEWALK SECTION
C11 SCALE: NONE

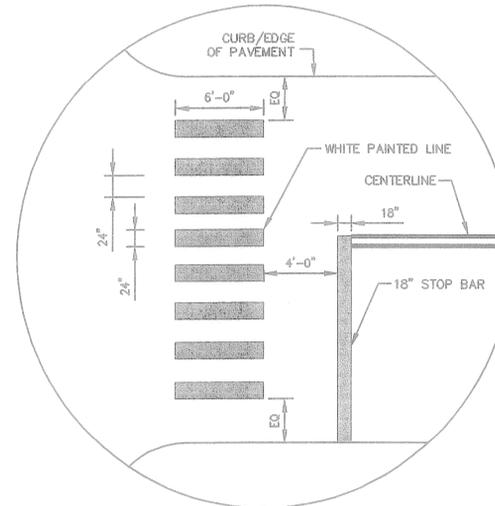
NOTES:

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



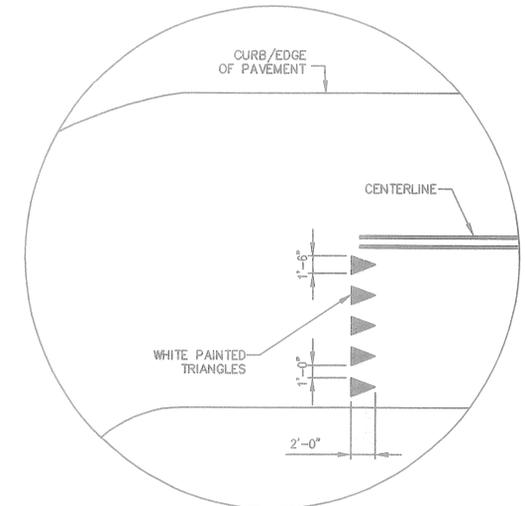
PICTORIAL VIEWS

18 HANDICAP SIDEWALK RAMP
C11 SCALE: NONE

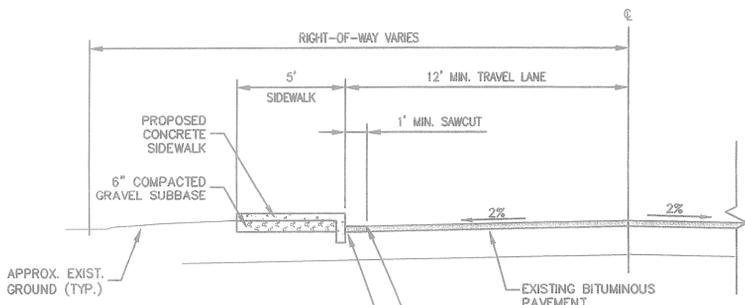


NOTE: CENTER STRIPES TO AVOID WHEEL TRACKS.

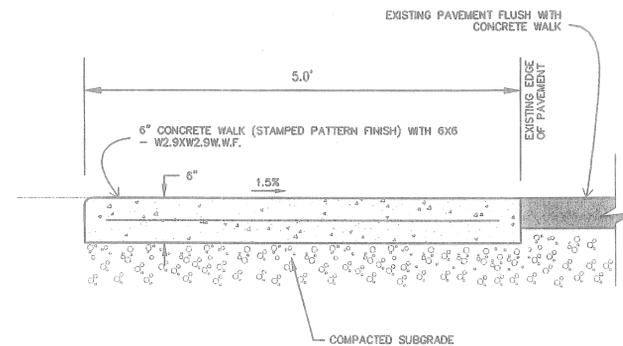
19 PAINTED CROSSWALK DETAIL
C11 SCALE: NONE



20 PAINTED YIELD LINE DETAIL
C11 SCALE: NONE



- IN AREAS WHERE CURBING IS TO BE INSTALL OUTSIDE PAVING LIMITS, SAW CUT EXISTING PAVEMENT TO MAKE CLEAN EDGE. INSTALL BITUMINOUS PAVEMENT BETWEEN CUT AND PROPOSED CURBING, MATCH SLOPE AND THICKNESS OF EXISTING PAVEMENT.
- IN AREAS WHERE CURBING IS TO BE INSTALL WITHIN PAVING LIMITS, SAW CUT AND REMOVE PAVEMENT FOR INSTALLATION OF CURBING, REPLACE MATERIALS TO MATCH EXISTING.



22 TYPICAL SIDEWALK SECTION FLUSH W/ PAVEMENT
C11 SCALE: N.T.S.

21 PAVEMENT SAWCUTTING
C11 SCALE: NONE



PROJECT NO.	FILE NAME:	DATE	DR.	CHKD. BY	APPROV. BY
663601	Details				

PROJECT NO.	FILE NAME:	DATE	DR.	CHKD. BY	APPROV. BY
663601	Details				

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663601	Details				

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663601	Details				

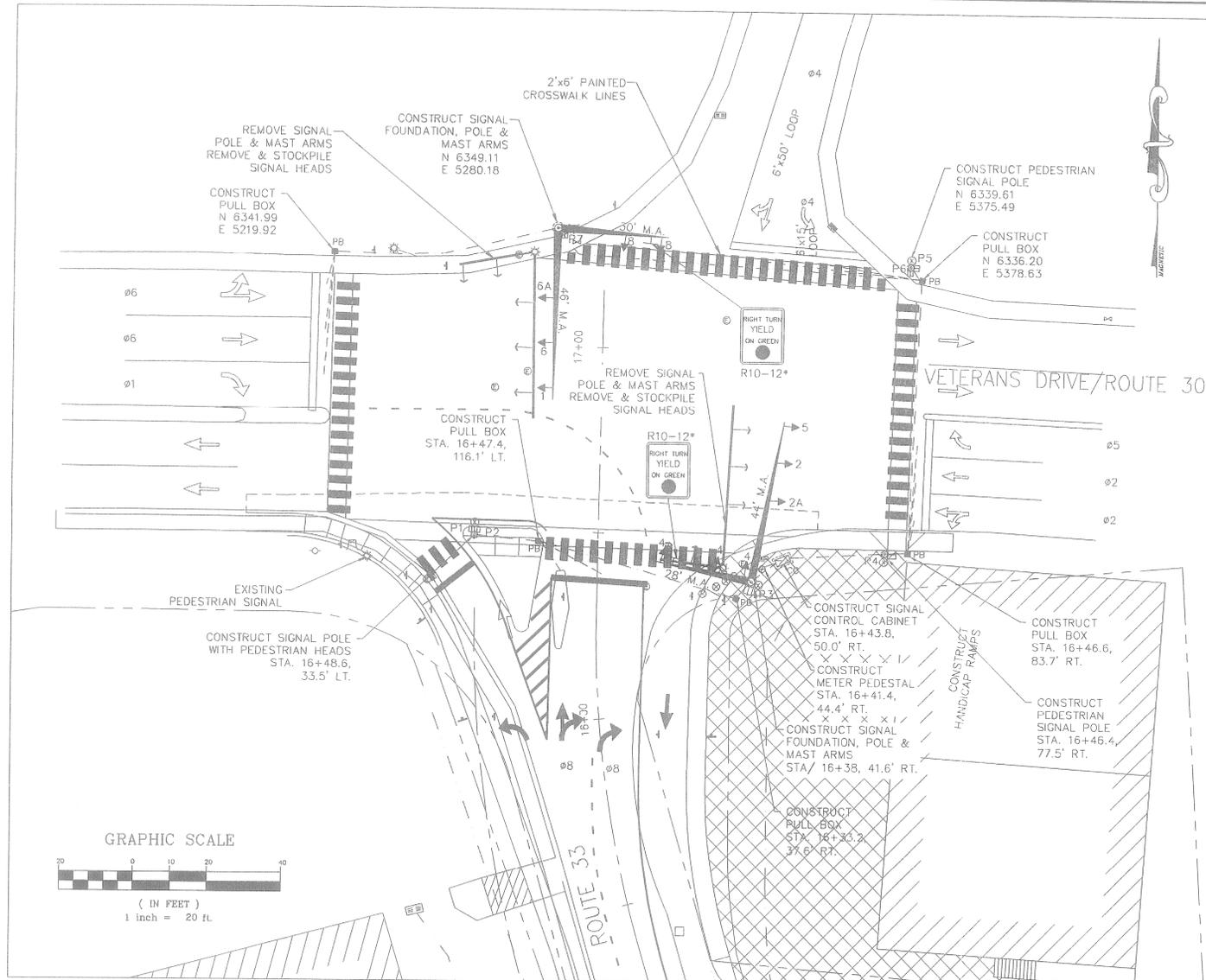
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663601	Details				

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663601	Details				

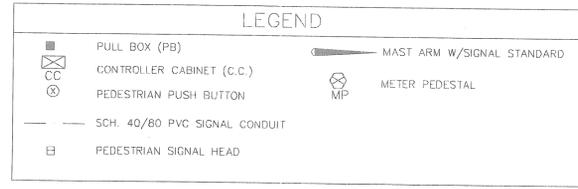
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663601	Details				

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663601	Details				

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663601	Details				



- CONSTRUCTION NOTES:**
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE PUBLIC WORKS DEPARTMENT AND POLICE DEPARTMENT PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL SUBMIT IN WRITING A PROJECT SCHEDULE.
 - ALL CONDUIT BENEATH PAVEMENT SHALL BE SCHEDULE 80.
 - ALL MAST ARM FOUNDATIONS SHALL BE CONSTRUCTED IN EXCAVATED HOLES. ANY UNSUITABLE MATERIAL ENCOUNTERED SHALL BE REMOVED AS DIRECTED BY ENGINEER.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIGNAL MAINTENANCE DURING THE CONTRACT. THE CONTRACTOR SHALL FURNISH TEMPORARY SIGNAL EQUIPMENT THAT MAY BE NEEDED. THE CONTRACTOR SHALL FURNISH THE CONTRACT ADMINISTRATOR AND THE LOCAL POLICE DEPARTMENT WITH NAMES AND PHONE NUMBERS OF PERSONS TO BE CONTACTED IN CASE OF A MALFUNCTION.
 - 8 PHASE PROGRAMMABLE TRAFFIC-ACTUATED SIGNAL CONTROLLER OF CURRENT NEMA SPECIFICATIONS WITH INTERNAL TIME BASE COORDINATION, AND INTERNAL FIRE PRE-EMPTION, OVERLAPS SHALL BE INTERNALLY GENERATED AS PER NEMA STANDARD TS-1 USING WIRE JUMPERS ON A PRINTED CIRCUIT BOARD. CONTROLLER SHALL BE FURNISHED WITH A P TYPE CABINET AND 12" EXTENSION BASE.
 - ONE-WAY, THREE SECTION, 12 INCH SIGNAL HEADS, MOUNTED WITH PELCO ASTRO-BRACS, WITH 5" LOUVERED BACKPLATES.
 - ALL SIGNAL HEADS SHALL HAVE LED LAMPS.
 - QUADRUPOLE ROADWAY LOOP DETECTORS 6' BY 50', 2-4-2 TURNS AS PER PLANS.
 - METER PEDESTAL WITH 30 AMP DISCONNECT SWITCH.
 - GALVANIZED STEEL MAST ARM POLES WITH MAST ARMS PER PLANS.
 - 12" LED PEDESTRIAN SIGNALS AND PEDESTRIAN PUSH BUTTON AND SIGN ASSEMBLIES.
 - BRING EACH LOOP BACK TO THE CONTROLLER CABINET ON A SEPARATE LEAD-IN AND WIRE EACH LOOP ONTO ITS OWN AMPLIFIER.
 - ALL EXISTING TRAFFIC SIGNAL EQUIPMENT THAT IS NOT BEING REUSED SHALL BE REMOVED WITHOUT DAMAGE AND DELIVERED TO THE V.I. PUBLIC WORKS DEPARTMENT.

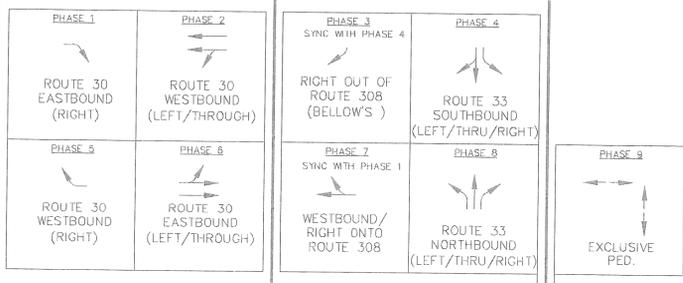


DETECTOR			AMPLIFIER	
STREET	DIRECT.	LANE	NO.	CHANNEL
ROUTE 30	EB	LEFT		
ROUTE 30	EB	THROUGH		
ROUTE 30	EB	RIGHT		
ROUTE 30	WB	LEFT		
ROUTE 30	WB	THROUGH		
ROUTE 30	WB	RIGHT		
ROUTE 33	NB	LEFT		
ROUTE 33	NB	THROUGH		
ROUTE 33	NB	RIGHT		
ROUTE 33	SB	LEFT		
ROUTE 33	SB	THRU/RIGHT		

INDUCT. U H	RESIST. OF LOOP Ω	RESIST. LOOP/GRD. MEG Ω	RESIST. SHIELD/GRD. MEG Ω

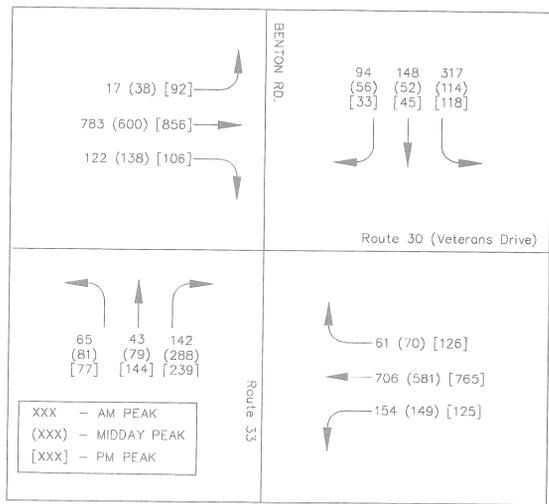
RECORD FIELD MEASUREMENTS ABOVE

NEMA DUAL RIGN CONTROLLER



- NOTES:**
- CONTROLLER TO BE SET FOR DUAL ENTRY FOR PHASE 4&8
 - EXCLUSIVE PEDESTRIAN PHASE ONLY WHEN ACTUATED BY PEDESTRIAN PUSH BUTTON.

TRAFFIC VOLUMES

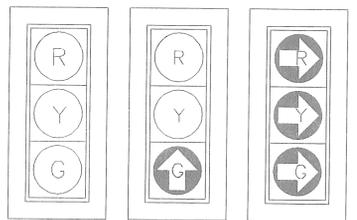


CONTROLLER PROGRAMMING

MAX 1 (AM PEAK) 7:00 - 9:00 AM
MAX 2 (PM PEAK) 4:00 - 6:00 PM

INTERVAL	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PHASE 9	FLASH
PHASE	ROUTE 30 EB (RIGHT)	ROUTE 30 WB	ROUTE 308 SB	ROUTE 33 SB	ROUTE 30 WB (RIGHT)	ROUTE 30 EB	ROUTE 30 WB (308/30)	ROUTE 33 NB		
TIMING IN SECONDS										
INITIAL INTERVAL	5	10	7	7	5	10	5	7		
VEHICLE EXTENSION	3	3	3	3	3	3	3	3		
MAXIMUM GREEN 1	18	34	27	27	12	40	18	27		
MAXIMUM GREEN 2	11	40	29	29	13	38	11	29		
YELLOW	4	4	4	4	4	4	4	4		
ALL RED	2	3	2	2	2	3	2	2		
PEDESTRIAN WALK									7	
PEDESTRIAN DON'T WALK									24	
RECALL	NONE	MIN	NONE	NONE	NONE	MIN	NONE	NONE		
DETECTOR	Locking	NL	Locking	Locking	Locking	NL	Locking	Locking		

* EXCLUSIVE PEDESTRIAN PHASE ONLY WHEN ACTUATED BY PEDESTRIAN PUSH BUTTON.



HEADS 2A, 6A, 4, 8
HEADS 2, 6
HEADS 1, 5
12" LENSES WITH 5" BACKPLATE



ONE SECTION ALUMINUM SIGNAL, YELLOW HOUSING BLACK FACE, CUTAWAY VISORS ONLY. PEDESTRIAN SIGNAL LAMPS TO BE LED.



PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 7 FEET AND NOT MORE THAN 10 FEET ABOVE THE SIDEWALK LEVEL AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.

HEADS P1, P2, P3, P4, P5, P6, P7

PEDESTRIAN SIGNAL HEADS

SIGNAL HEAD CONFIGURATION

PROPOSED COORDINATION DATA

	PLAN 1	PLAN 2	PLAN 3
CYCLE LENGTH	80	80	80
OFFSET	0	0	0
YIELD POINT	SINGLE	SINGLE	SINGLE
RELEASE HOLD			
SPLIT TIME #1	20	16	14
SPLIT TIME #2	33	31	38
SPLIT TIME #4	27	33	28
SPLIT TIME #5	15	12	16
SPLIT TIME #6	38	35	36
SPLIT TIME #8	27	33	28

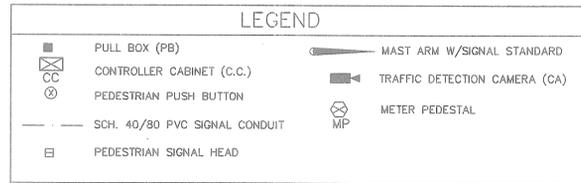
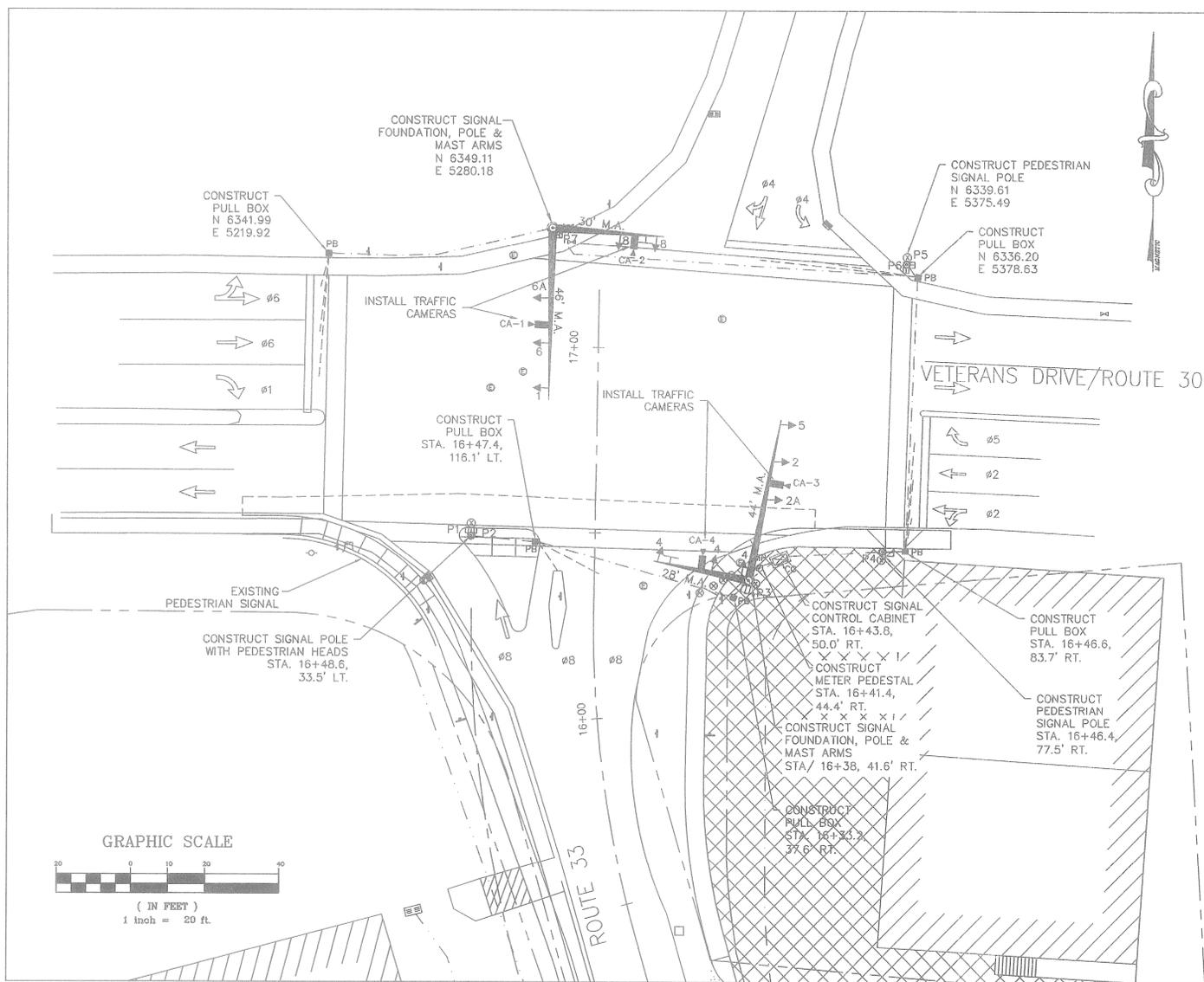
COORDINATION NOTES

OFFSETS ARE REFERENCED TO PHASE 2&6, START OF GREEN.
PLAN 1 = WEEKDAY AM
PLAN 2 = WEEKDAY MIDDAY
PLAN 3 = WEEKDAY PM
EXCLUSIVE PED PHASE SHALL END COORDINATION. CONTROLLER SHALL RESYNCHRONIZE ON FOLLOWING CYCLES.



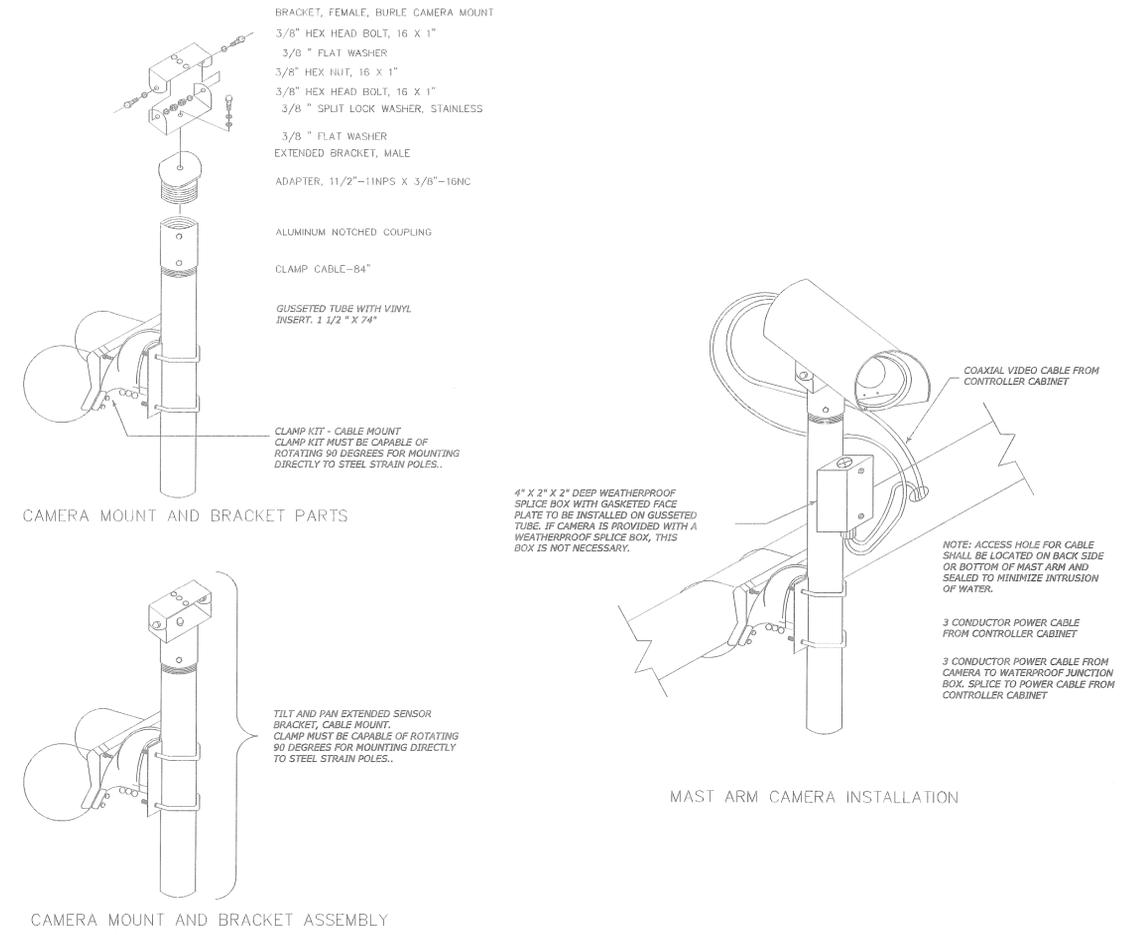
DEPARTMENT OF PUBLIC WORKS
OFFICE OF HIGHWAY ENGINEERING

VIRGIN ISLANDS DPW
ST. THOMAS, USVI
ROUTE 33 ROADWAY
AND PEDESTRIAN IMPROVEMENTS



CONSTRUCTION NOTES:

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2. ALL CONDUIT BENEATH PAVEMENT SHALL BE SCHEDULE 80.
3. ALL MAST ARM FOUNDATIONS SHALL BE CONSTRUCTED IN EXCAVATED HOLES. ANY UNSUITABLE MATERIAL ENCOUNTERED SHALL BE REMOVED AS DIRECTED BY ENGINEER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIGNAL MAINTENANCE DURING THE CONTRACT. THE CONTRACTOR SHALL FURNISH TEMPORARY SIGNAL EQUIPMENT THAT MAY BE NEEDED. THE CONTRACTOR SHALL FURNISH THE CONTRACT ADMINISTRATOR AND THE LOCAL POLICE DEPARTMENT WITH NAMES AND PHONE NUMBERS OF PERSONS TO BE CONTACTED IN CASE OF A MALFUNCTION.
5. 8 PHASE PROGRAMMABLE TRAFFIC-ACTUATED SIGNAL CONTROLLER OF CURRENT NEMA SPECIFICATIONS WITH INTERNAL TIME BASE COORDINATION, AND INTERNAL FIRE PRE-EMPTION. OVERLAPS SHALL BE INTERNALLY GENERATED AS PER NEMA STANDARD TS-1 USING WIRE JUMPERS ON A PRINTED CIRCUIT BOARD. CONTROLLER SHALL BE FURNISHED WITH A P TYPE CABINET AND 12" EXTENSION BASE.
6. ONE-WAY, THREE SECTION, 12 INCH SIGNAL HEADS, MOUNTED WITH PELCO ASTRO-BRACS, WITH 5" LOUVERED BACKPLATES.
7. ALL SIGNAL HEADS SHALL HAVE LED LAMPS.
8. QUADRUPOLE ROADWAY LOOP DETECTORS 6' BY 50', 2-4-2 TURNS AS PER PLANS.
9. METER PEDESTAL WITH 30 AMP DISCONNECT SWITCH.
10. GALVANIZED STEEL MAST ARM POLES WITH MAST ARMS PER PLANS.
11. 12" LED PEDESTRIAN SIGNALS AND PEDESTRIAN PUSH BUTTON AND SIGN ASSEMBLIES.
12. BRING EACH LOOP BACK TO THE CONTROLLER CABINET ON A SEPARATE LEAD-IN AND WIRE EACH LOOP ONTO ITS OWN AMPLIFIER.
13. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT THAT IS NOT BEING REUSED SHALL BE REMOVED WITHOUT DAMAGE AND DELIVERED TO THE V.I. PUBLIC WORKS DEPARTMENT.



DEPARTMENT OF PUBLIC WORKS
 OFFICE OF HIGHWAY ENGINEERING

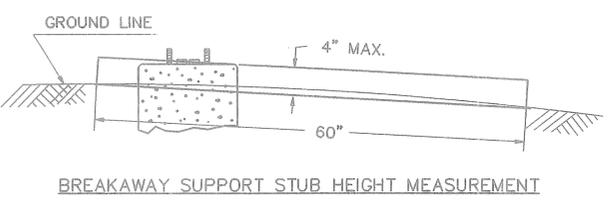
VIRGIN ISLANDS DPW
 ST. THOMAS, USVI
 ROUTE 33 ROADWAY
 AND PEDESTRIAN IMPROVEMENTS

TRAFFIC CAMERA
 DETAIL

C13A

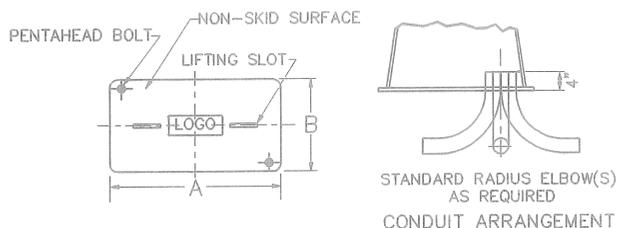


- NOTES:**
1. ALL STANDARDS, LUMINAIRES, AND WIRE TO BE FURNISHED AND INSTALLED BY THE POWER COMPANY, UNLESS OTHERWISE DIRECTED.
 2. ANCHOR BOLTS, GROUND ROD, & GROUND WIRE TO BE FURNISHED BY THE POWER COMPANY AND INSTALLED BY THE CONTRACTOR, UNLESS OTHERWISE DIRECTED.
 3. BOLT CIRCLE DIAMETER SHALL BE VERIFIED WITH THE POWER COMPANY.
 4. CONCRETE SHALL BE CLASS B (0.7 C.Y. PER BASE)
 5. ALL BASES SHALL BE LOCATED 10'-0" (TO CENTER) FROM FACE OF CURB OR EDGE OF PAVED SHOULDER, UNLESS OTHERWISE SPECIFIED.
 6. ALL BASES SHALL BE BACKFILLED WITH GRANULAR BACKFILL (GRAVEL) CONFORMING TO SECTION 209.
 7. ALL BASES SHALL BE PRECAST OR CAST IN PLACE—SEE SECTION 625. CAST IN PLACE BASES SHALL BE FORMED FOR THE TOP 3 FEET.
 8. REINFORCEMENT SHALL CONFORM TO SECTION 544.
 9. ANY ANCHOR BOLTS DAMAGED DURING INSTALLATION SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER.
 10. UPON INSTALLATION, ANCHOR BOLT THREADS SHALL BE CLEANED WITH A WIRE BRUSH.
 11. TERRAIN SURROUNDING BASE MUST BE GRADED AS SHOWN BELOW TO PREVENT IMPACTING VEHICLES FROM SNAGGING ON BASE.

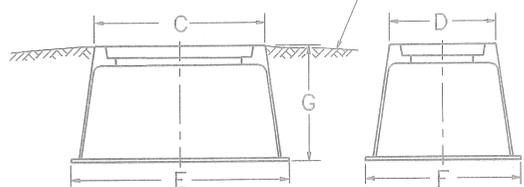


BREAKAWAY SUPPORT STUB HEIGHT MEASUREMENT

CONCRETE LIGHT POLE BASE



NOTE: USE RIGID STEEL ELBOWS WITH GROUNDING BUSHINGS WHEN CONDUIT RUN EXCEEDS 200'.
 ADJUST TOP OF PULL BOX TO CONFORM TO FINISHED SLOPE

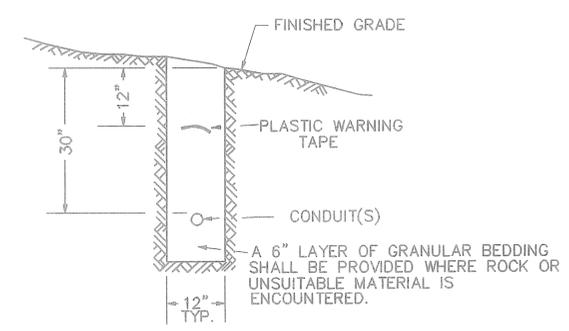


DIMENSIONS IN INCHES

	A	B	C	D	E	F	G
TYPE A	23	13	25	15	31	22	16 to 18
TYPE B	30	17	32	19	39	26	26

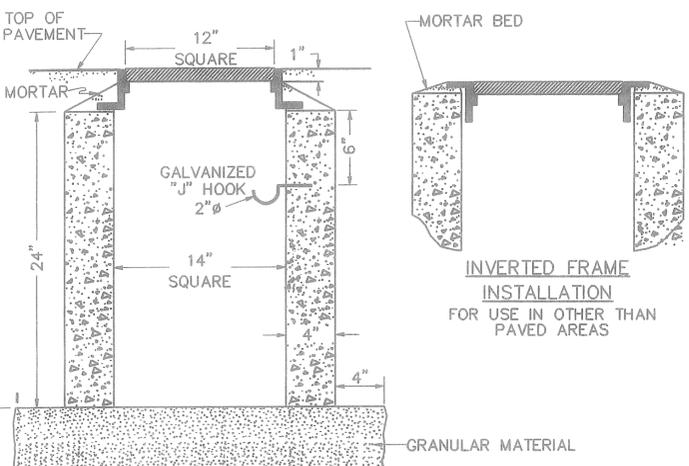
- NOTES:**
1. NOT FOR USE IN PAVED AREAS
 2. LOGO = SIGNAL OR POWER AS REQUIRED
 3. PROVIDE CAPTIVE BOLT IF AVAILABLE FROM MANUFACTURER
 4. DIMENSIONS NOMINAL, MAY VARY BY 1/2 INCH
 5. FRAMES & COVERS SHALL BE SUITABLE FOR INCIDENTAL VEHICULAR TRAFFIC

MOLDED PULL BOX TYPE A and B

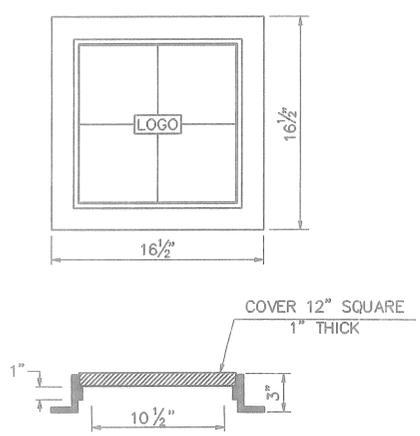


NOTE: BACKFILL ABOVE CONDUIT SHALL BE IN ACCORDANCE WITH 614.

CONDUIT INSTALLATION TRENCH DETAIL

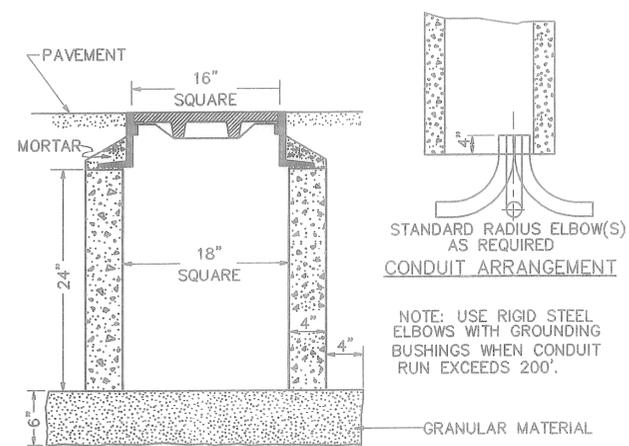


FOR USE IN PAVED AREAS (SIDEWALKS AND PAVED ISLANDS ONLY)



- NOTES:**
1. FRAME AND COVER SHALL BE SUITABLE FOR INCIDENTAL VEHICULAR TRAFFIC.
 2. DIMENSIONS SHOWN ARE NOMINAL.
 3. LOGO - SIGNAL OR POWER AS REQUIRED, ON CENTER OF COVER.
 4. APPROXIMATE WEIGHT OF FRAME AND COVER IS 60 LBS.

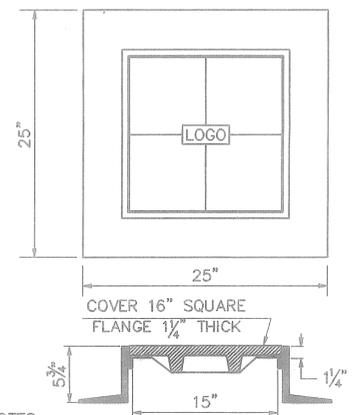
FRAME & COVER FOR CONCRETE PULL BOXES TYPE A



FOR USE IN PAVED AREAS (SIDEWALKS AND PAVED ISLANDS ONLY)

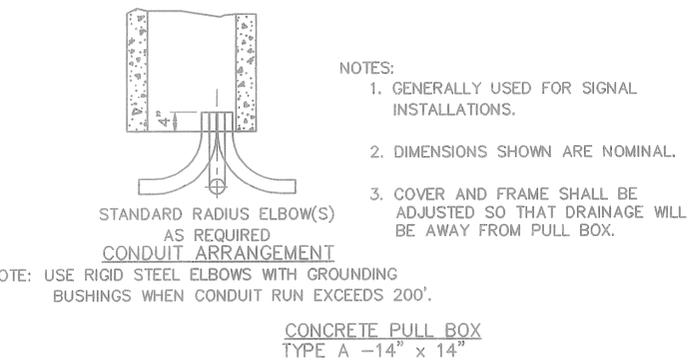
- NOTE:**
1. USED FOR POWER INSTALLATIONS.
 2. DIMENSIONS SHOWN ARE NOMINAL.
 3. COVER AND FRAME SHALL BE ADJUSTED SO THAT DRAINAGE WILL BE AWAY FROM PULL BOX.

CONCRETE PULL BOX TYPE B - 18 inch x 18 inch



- NOTES:**
1. FRAME AND COVER SHALL BE SUITABLE FOR INCIDENTAL VEHICULAR TRAFFIC.
 2. DIMENSIONS SHOWN ARE NOMINAL.
 3. LOGO = POWER ON CENTER OF COVER.
 4. APPROXIMATE WEIGHT OF FRAME AND COVER IS 230 LBS.

FRAME & COVER FOR CONCRETE PULL BOXES TYPE B



- NOTES:**
1. GENERALLY USED FOR SIGNAL INSTALLATIONS.
 2. DIMENSIONS SHOWN ARE NOMINAL.
 3. COVER AND FRAME SHALL BE ADJUSTED SO THAT DRAINAGE WILL BE AWAY FROM PULL BOX.

CONCRETE PULL BOX TYPE A - 14 inch x 14 inch

REV.	DESCRIPTION	DATE

PROJECT NO. 663601
 FILE NAME: Signal Details

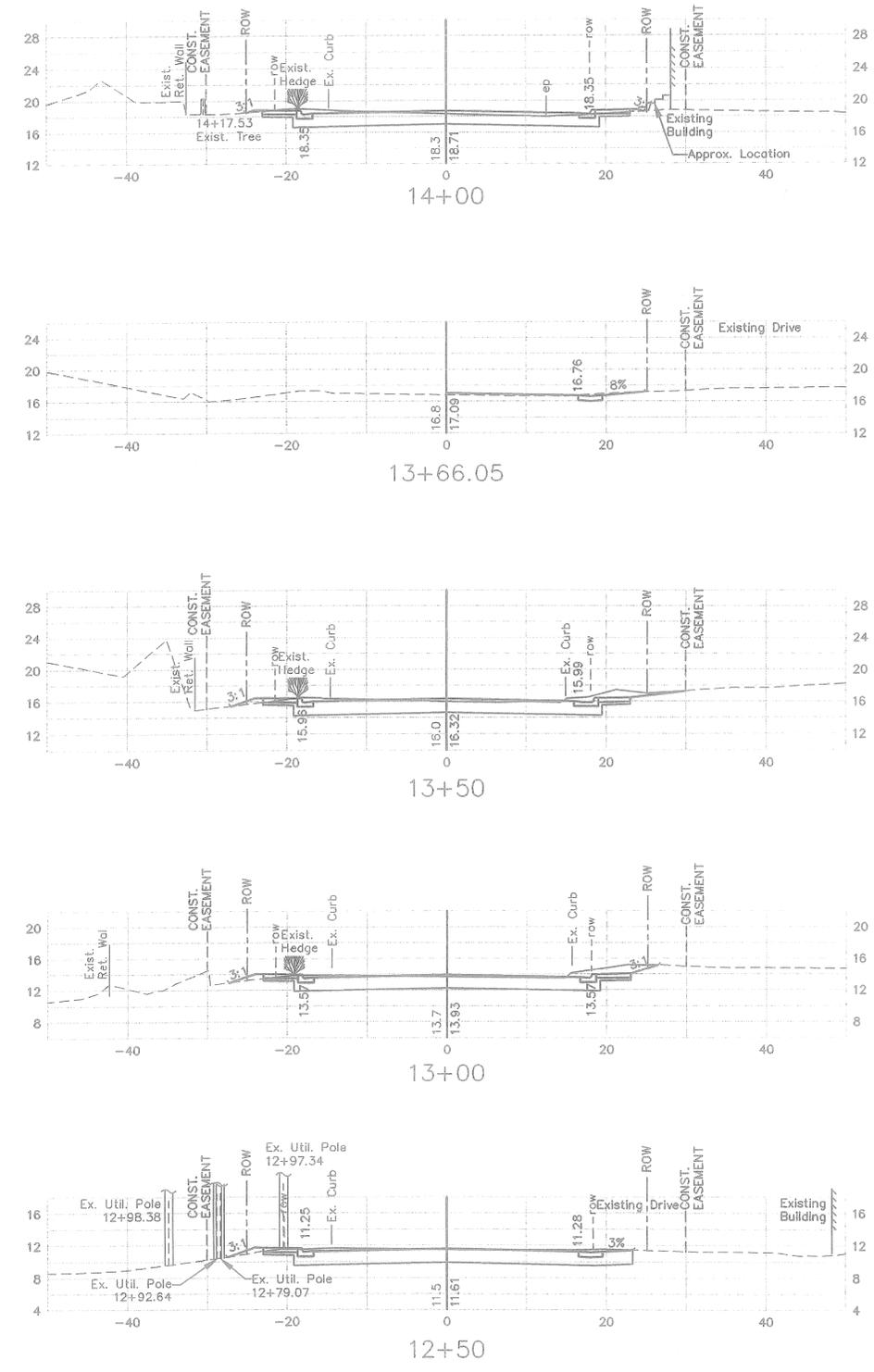
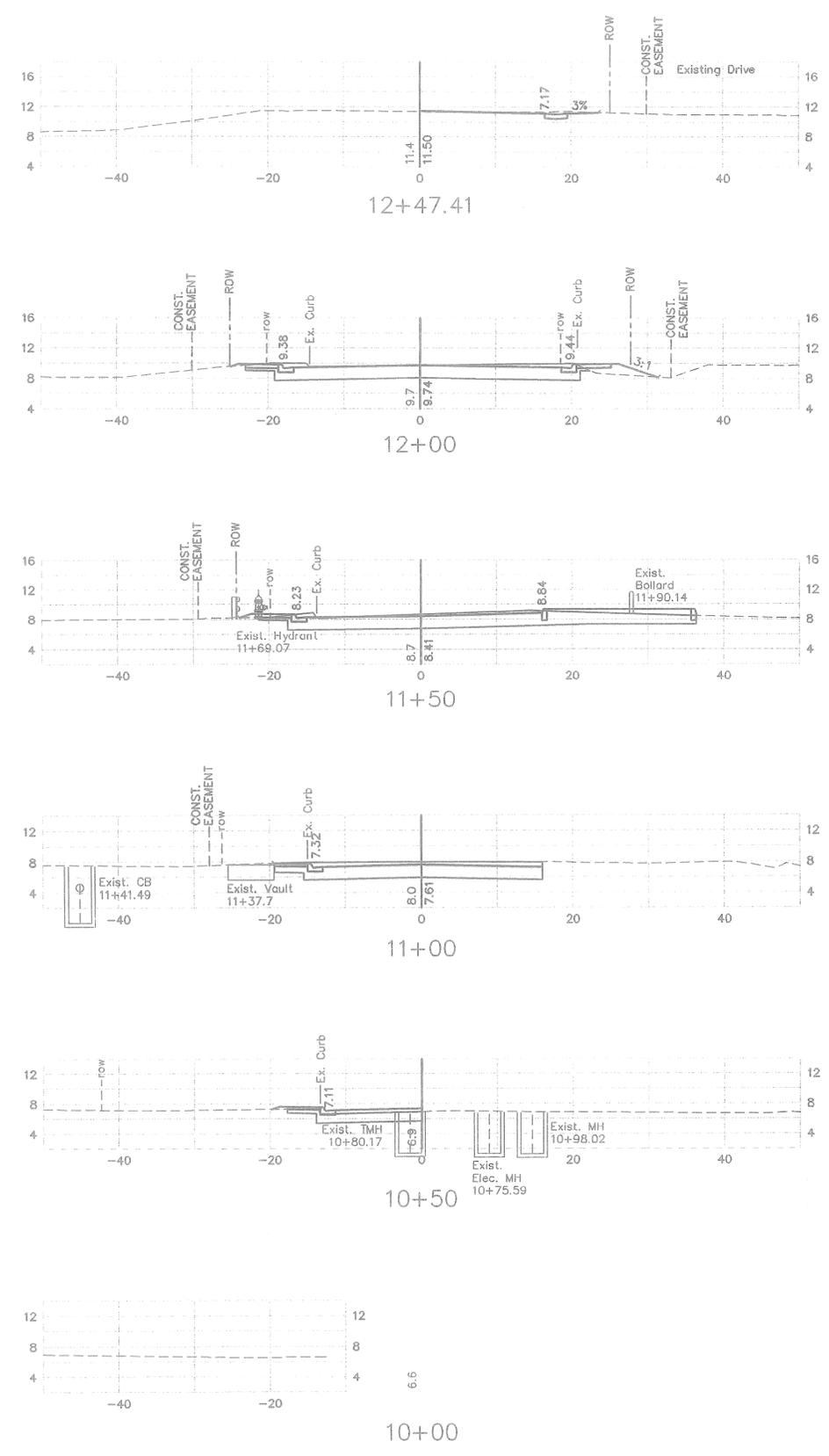
CHKD. BY DUG
 DR. BY MSB
 DES. BY PAC
 DATE: 1/26/09

HFA
 Hoyle, Tanner & Associates, Inc.
 Nelly Center, East Wing - Suite 740 • St. Thomas, USVI 00802
 Phone (340) 777-4650 • Fax (340) 774-1686

VIRGIN ISLANDS DPW
 ST. THOMAS, USVI
 ROUTE 33 ROADWAY
 AND PEDESTRIAN IMPROVEMENTS

TRAFFIC SIGNAL DETAILS

C15



REV.	DESCRIPTION	DATE

PROJECT NO.	663601
FILE NAME:	Sections

HFA *Smith*

Hoyle, Tanner & Associates, Inc.
 Nisky Center, East Wing - Suite 740 • St. Thomas, USVI 00002
 Phone (340) 777-6650 • Fax (340) 774-1666

DATE: 1/26/09

DES. BY: PAC
 DR. BY: MSB
 CHD. BY: DUG

SCALE:

VIRGIN ISLANDS DPW
ST. THOMAS, USVI

ROUTE 33 ROADWAY
AND PEDESTRIAN IMPROVEMENTS

CROSS SECTIONS
C16



DATE	
DR. BY	
CHKD. BY	
DESCRIPTION	
REV.	

PROJECT NO.	663601
FILE NAME:	Sections

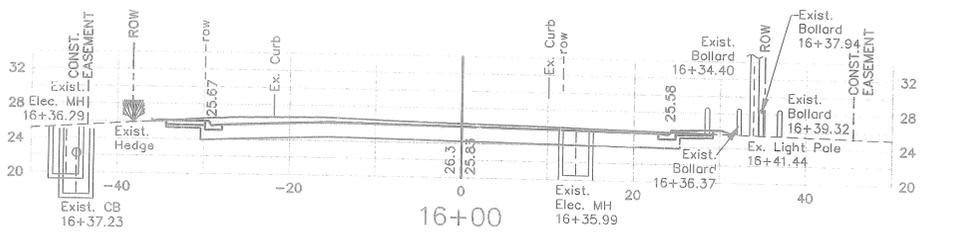
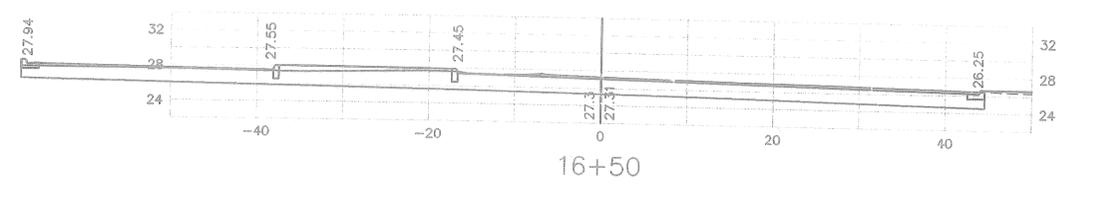
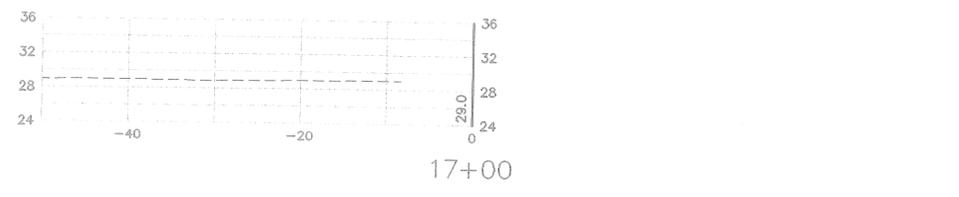
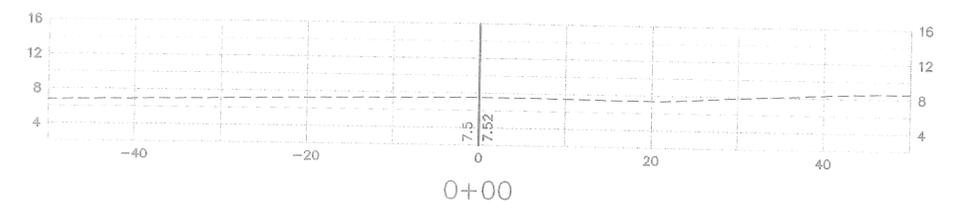
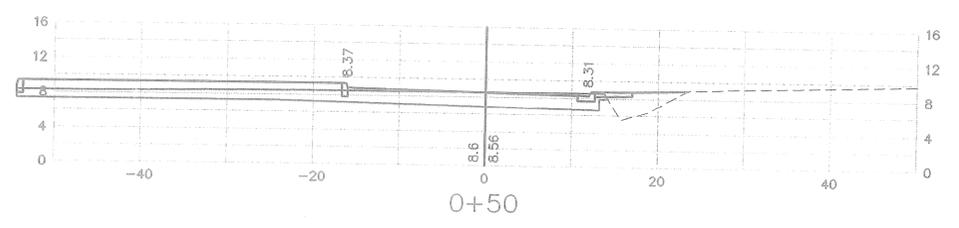
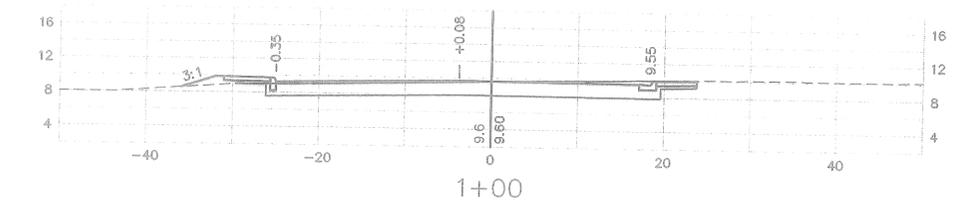
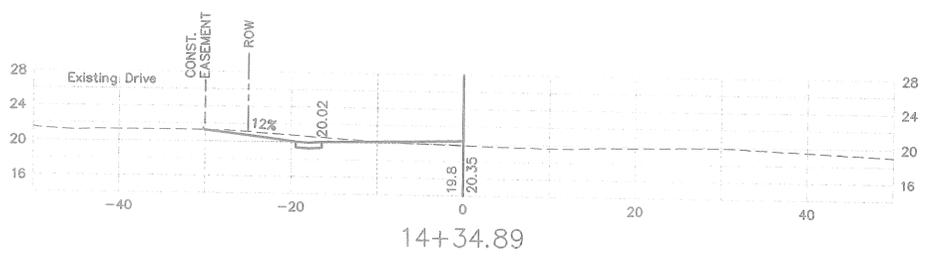
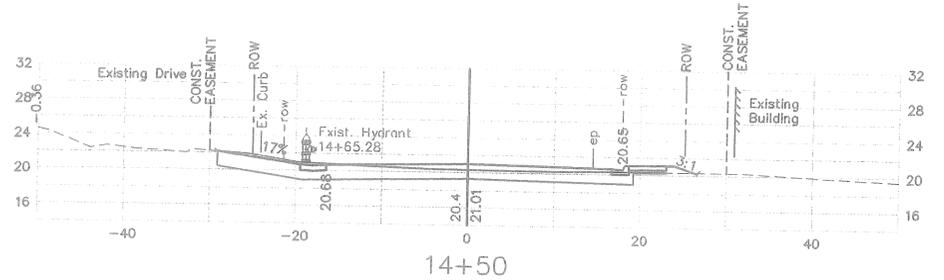
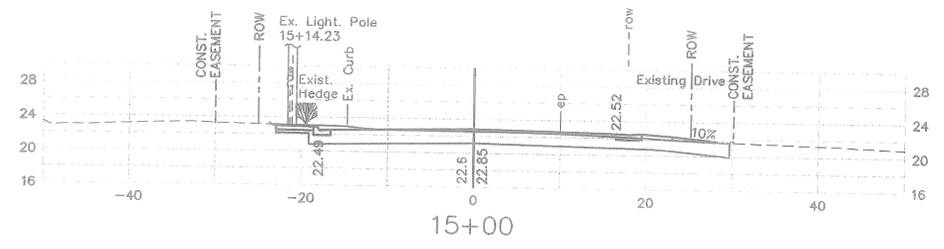
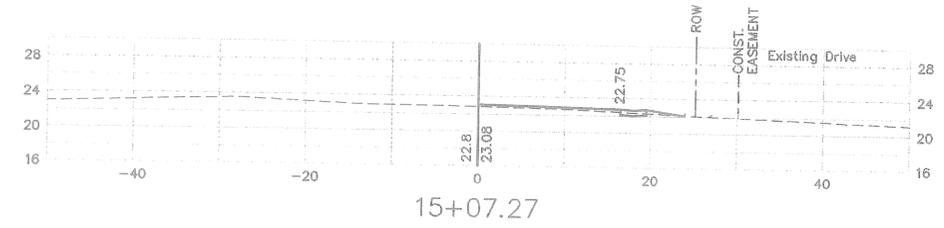
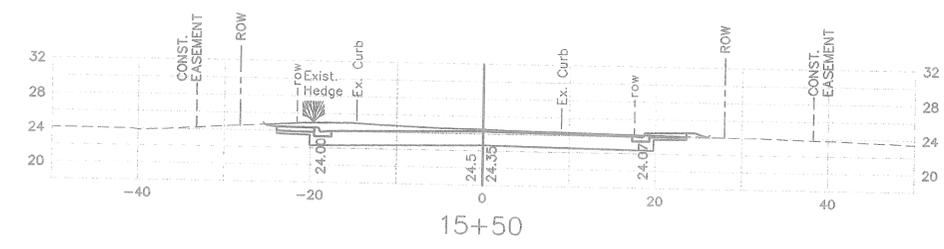
DES. BY	PAC
DR. BY	MSB
CHKD. BY	DUG
DATE:	1/26/09
SCALE:	

HFA Caribbean
 Hoyle Tanner & Associates, Inc.
 Nisley Center, East W. Rd. (340)
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VIRGIN ISLANDS DPW
 ST. THOMAS, USVI

ROUTE 33 ROADWAY
 AND PEDESTRIAN IMPROVEMENTS

CROSS SECTIONS
C17





PLAN SHEET SECTION----->>			
SECTION 1 SITE DEMO & RETROFIT			
ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITIES
20301-0000	DEMOLISH, REMOVE & DISPOSE OF EXISTING PAVEMENT	SQ YD	2450
41803-0000	SAWCUT EXISTING PAVEMENT	LF	800
60401-0000	ADJUST MANHOLE RIM ELEVATION	EA	5
61101-0000	ADJUST WATER VALVE COVER ELEVATION	EA	3
60401-1000	ADJUST & FORTIFY UTILITY VAULT COVER	EA	1
20301-0100	REMOVAL OF GUARDRAIL	LF	25
20301-0900	REMOVE & RESET HYDRANT	EA	2
20301-0500	REMOVE CATCH BASIN	EA	1
20301-0200	REMOVE & DISPOSE OF CURB	LF	1665
20301-3200	REMOVE & DISPOSE OF SIDEWALK	SQ YD	480
20301-2800	REMOVE SIGNAL POLE, FOUNDATION, MAST ARMS AND HEADS	EA	2

PLAN SHEET SECTION----->>			
SECTION 2 EARTHWORK			
ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITIES
20401-0000	GENERAL EXCAVATION	CU YD	
30102-0200	6" CRUSHED GRAVEL BASE	CU YD	
30102-0400	10" GRAVEL BASE	CU YD	
21201-0000	PARKING LOT GRADING	LS	

PLAN SHEET SECTION----->>			
SECTION 3 SIDEWALK, CURBING & CONCRETE DRIVEWAYS			
ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITIES
61501-0100	4" THICK (6" @ DRIVES) CONCRETE SIDEWALK	SQ YD	
61504-0100	HANDICAP SIDEWALK RAMPS/TIP DOWNS (TACTILE WARNING PADS)	EA	
61501-1000	6" THICK CONCRETE DRIVEWAYS	SQ YD	
60905-1000	CONCRETE CURB & GUTTER (TYPE F)	LF	
60905-0000	CONCRETE CURB (TYPE D)	LF	
61501-0200	RAISED ISLAND - 4" CONCRETE	SQ FT	
60905-1000	VALLEY GUTTER	LF	

PLAN SHEET SECTION----->>			
SECTION 4 BITUMINOUS PAVEMENT			
ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITIES
40201-0000	2" BIT. PAVEMENT (BASE)	TONS	345
40201-1000	2" BIT. PAVEMENT (FINISH)	TONS	1100
40201-2000	1" BIT. PAVEMENT (PARKING LOT OVERLAY)	TONS	85
41201-0000	TACK COAT	GAL	900
41301-0000	2" MILLING - FULL WIDTH	SQ YD	6110

PLAN SHEET SECTION----->>			
SECTION 5 SIGNAGE & STRIPING			
ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITIES
63305-0100	R1-1 STOP SIGN	EA	3
63305-0200	R1-2 YIELD SIGN	EA	1
63305-0300	R3-8a TURN ONLY	EA	1
63305-0400	R10-12 SIGN (RIGHT TURN YIELD) FOR TRAFFIC SIGNALS	EA	2
63305-0500	M1-4 ROUTE SIGN	EA	2
63305-0600	M2-1 JUNCTION SIGN	EA	2
63305-0700	M6-3 ROUTE ARROW	EA	1
63305-0800	M6-4 ROUTE ARROW	EA	1
63306-0000	4-FOOT DELINEATOR POSTS	EA	12
63401-1500A	PAVEMENT MARKINGS 4" (DOUBLE YELLOW/WHITE)	LF	2,510
63401-1500B	PAVEMENT MARKINGS 12" (MEDIANS)	LF	65
63401-1500C	PAVEMENT MARKINGS 24" (CROSSWALKS)	LF	465
63401-1000	RETROREFLECTIVE PAINT MARKING (SYMBOL/WORD)	SQ FT	84

PLAN SHEET SECTION----->>			
SECTION 6 TRAFFIC SIGNAL			
ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITIES
63606-0000	ADAPTIVE SIGNAL CONTROL SYSTEM	LS	1
63606-1000	SYSTEM INSTALLATION - TRAFFIC W/CAMERA DETECTION	LS	1
63601-0000	SIGNAL POLE & FOUNDATION	EA	2
63601-0100	28' MAST ARM	EA	1
63601-0200	30' MAST ARM	EA	1
63601-0300	44' MAST ARM	EA	1
63601-0400	46' MAST ARM	EA	1
63601-0500	PEDESTRIAN SIGNAL POLE & FOUNDATION	EA	2
63601-0600	PEDESTRIAN SIGNAL HEAD, PUSH BUTTON & SIGN ASSEMBLY	EA	7
63601-0700	3-SECTION LED SIGNAL HEAD	EA	11
63601-0800	TRAFFIC SIGNAL CONTROLLER, CABINET & FOUNDATION	EA	1
63605-0000	TRAFFIC SIGNAL CONDUIT	LF	375
63605-1000	PULL BOX FOR TRAFFIC SIGNALS	EA	5

PLAN SHEET SECTION----->>			
SECTION 7 DRAINAGE			
ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITIES
60702-0000	CLEAN SEDIMENT FROM DRAINAGE PIPE/SIDEWALK DRAIN	LF	400
60401-0000	CURB INLETS	EA	2
60201-0000	4' X 6' DRAINAGE STRUCTURE	EA	1
60401-1000	DRAINAGE HANDHOLE	EA	1

PLAN SHEET SECTION----->>			
SECTION 8 MISCELLANEOUS			
ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITIES
15701-0000	EROSION CONTROL	LS	1
61904-0000	INSTALL BOLLARDS	EA	4
15101-0000	MOBILIZATION	LS	1
63501-0000	MAINTENANCE OF TRAFFIC	LS	1

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