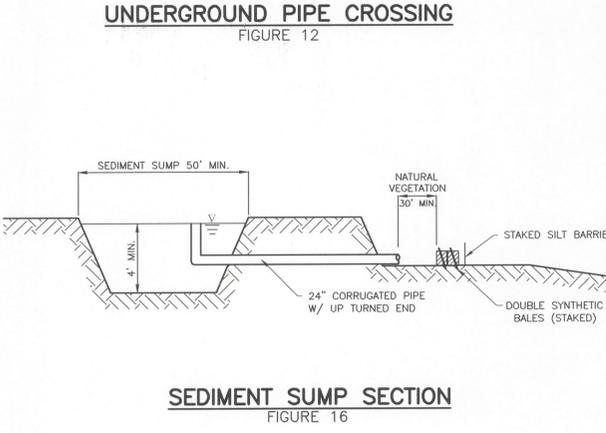
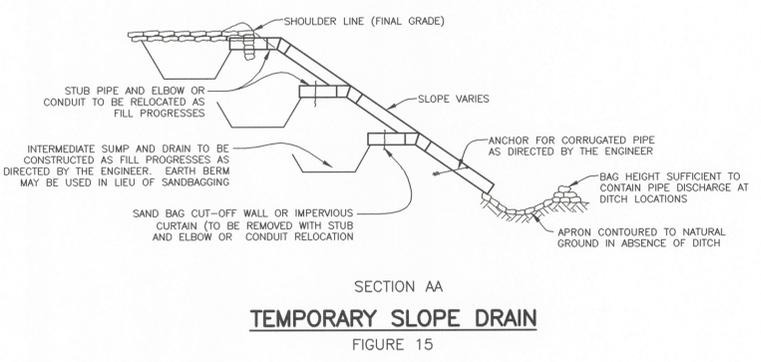
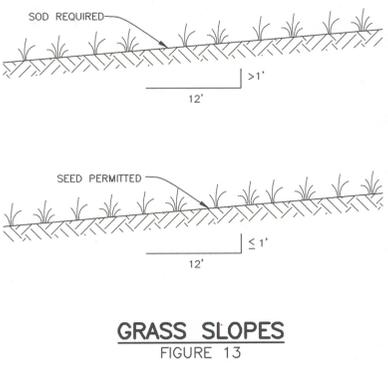
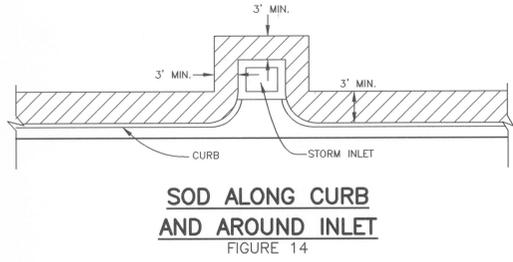
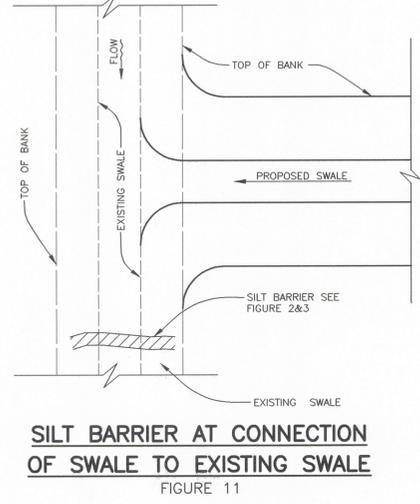
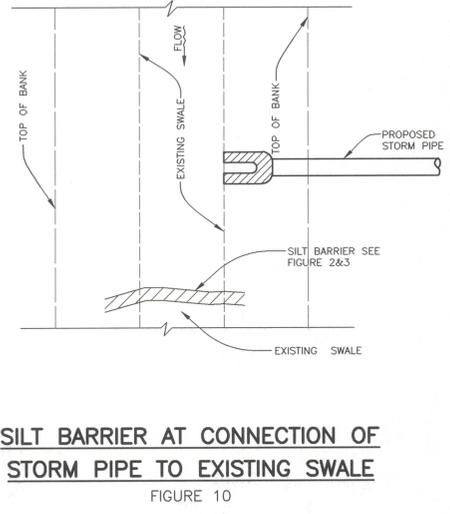
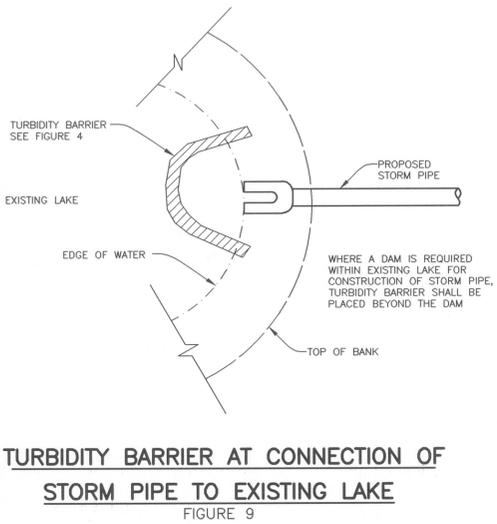
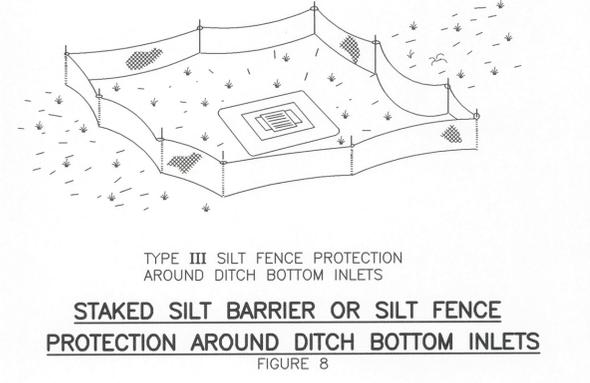
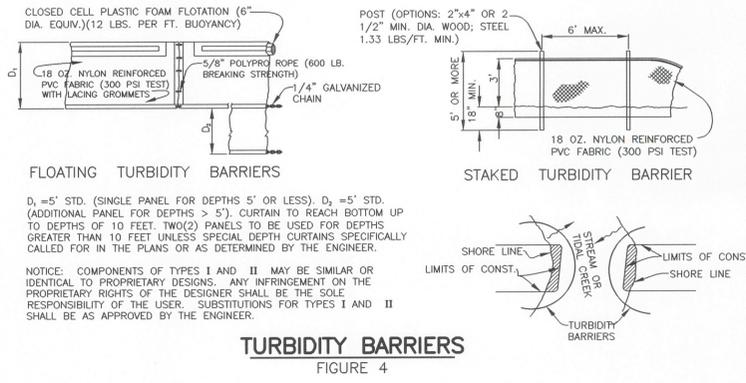
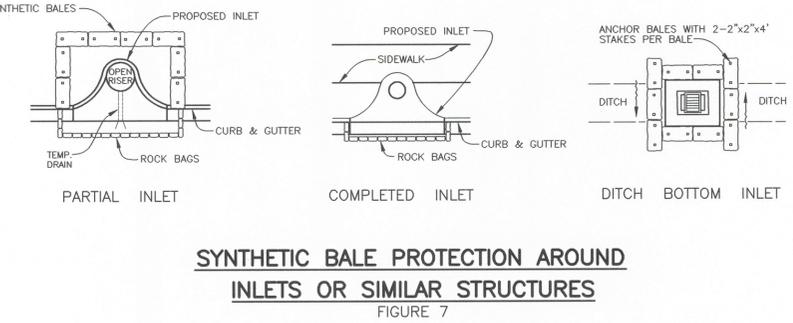
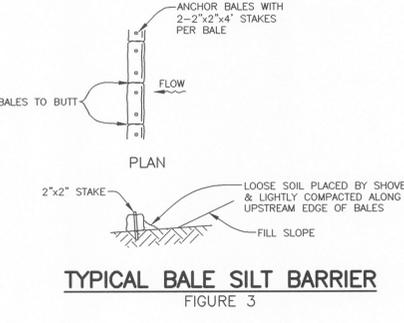
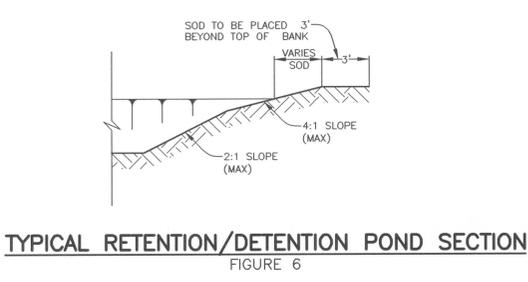
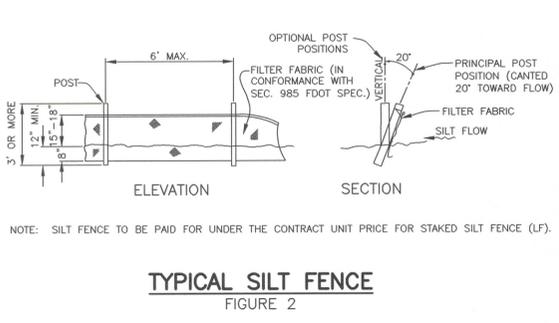
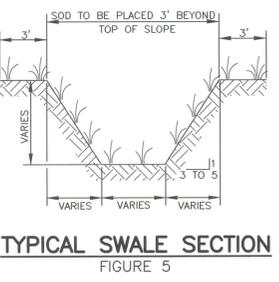
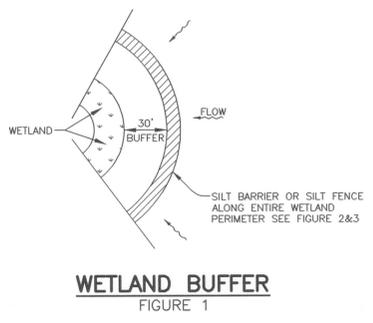


FORCE MAIN 27-A
FROM 51st ST. W. TO THE SWWRP
EROSION CONTROL



NOTE:
REFERENCE THE FDOT DESIGN STANDARDS
LATEST EDITION FOR ALL TEMPORARY
EROSION CONTROL MEASURES.

NO.	REVISION DESCRIPTION	BY	DATE
PROJECT #	406-6082980		
SURVEY #	3825		
SEC./TWN./RGE	16,17,18/35/17		
VERT. SCALE	N.T.S.		
HORZ. SCALE	N.T.S.		
		BY	DATE
SURVEYED	LSF/HYATT	2001/2012	
DESIGNED	LSF/JS	2002/2013	
DRAWN	BLR	03/2013	
CHECKED	JS	03/2013	

JAMES STOCKWELL, P.E.
Professional Engineer
No. 67198
10/25/14
STATE OF FLORIDA
SPECIAL ENGINEER

COPYRIGHT 2010 MANATEE COUNTY GOVERNMENT \S:\P\DWG\ENR\27-A\DWG\27-A.dwg, 9/25/2014 9:15 AM Bruce Robertson, 1:1, ANSI full based D (34.00 x 22.00 inches)

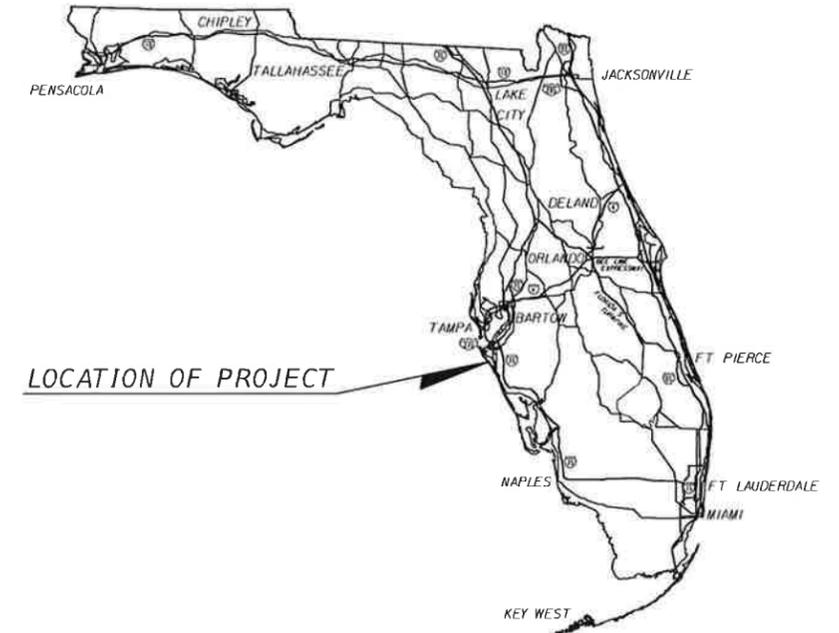
**MANATEE COUNTY
PUBLIC WORKS DEPARTMENT**

CONTRACT PLANS

MANATEE COUNTY (13160)
COUNTY PROJECT 6082960

53RD AVENUE WEST FROM EAST OF 75TH STREET WEST
TO WEST OF 43RD STREET WEST

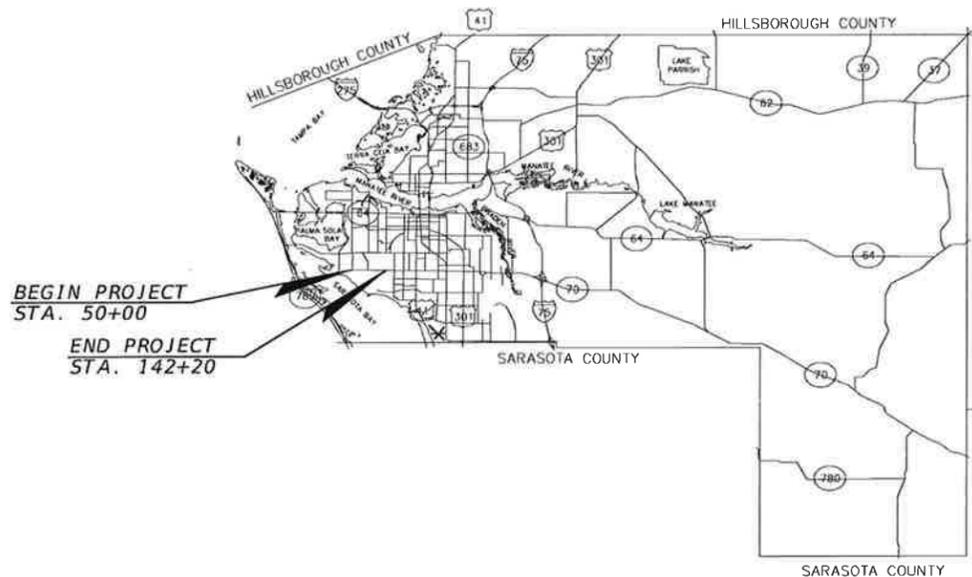
SIGNALIZATION PLANS



LOCATION OF PROJECT

INDEX OF SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	TABULATION OF QUANTITIES
T-3	GENERAL NOTES
T-4	PAY ITEM NOTES
T-5 - T-6	SIGNALIZATION PLAN
T-7 - T-10	INTERCONNECT COMMUNICATION PLAN
T-11 - T-12	GUIDE SIGN WORKSHEET
T-13	MAST ARM TABULATION
T-14	STANDARD MAST ARM ASSEMBLIES DATA TABLE
T-15	SPECIAL MAST ARM ASSEMBLIES DATA TABLE
T-16	CCTV CONCRETE POLE DATA SHEET
T-17	BLOCK DIAGRAM FOR CCTV CAMERA
T-18	SPLICE DIAGRAM
T-19	ITS CABINET & LINE DIAGRAM DETAILS
T-20	TYPE 336S CABINET DETAILS
T-21	CONCRETE APRON DETAILS



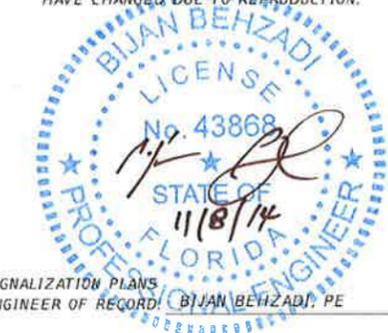
BEGIN PROJECT
STA. 50+00

END PROJECT
STA. 142+20

SIGNALIZATION SHOP DRAWINGS
TO BE SUBMITTED TO:
BIJAN BEHZADI, PE
HDR ENGINEERING, INC.
5426 BAY CENTER DRIVE, STE. 400
TAMPA, FLORIDA 33609-3444
PHONE NO. (813) 282-2300

PLANS PREPARED BY:
HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD., STE. 400
SARASOTA, FLORIDA 34232-6233
PHONE NO. (941) 342-2700
FAX (941) 342-6589
CONTRACT NO. 12348
VENDOR NO. VF-470680568
CERTIFICATE OF AUTHORIZATION No. 4213

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.



SIGNALIZATION PLANS
ENGINEER OF RECORD: BIJAN BEHZADI, PE

P.E. NO.: 43868

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

FISCAL YEAR	SHEET NO.
14	T-1

GOVERNING STANDARDS AND SPECIFICATIONS:
Florida Department of Transportation 2014 Design Standards and revised Index Drawings, as appended herein, and applicable Articles and Subarticles of Division I and all of Divisions II & III of the 2014 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents.

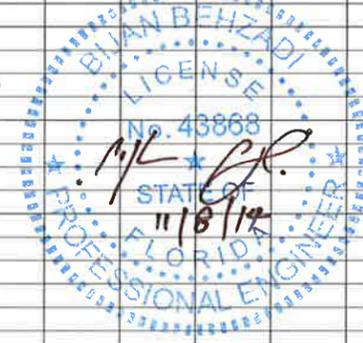
For Design Standards click on the "Design Standards" link at the following web site: <http://www.dot.state.fl.us/rddesign/>

For the Standard Specifications for Road and Bridge Construction click on the "Specifications" link at the following web site: <http://www.dot.state.fl.us/specificationsoffice/>

MANATEE COUNTY PROJECT MANAGER: ANTHONY BENITEZ, PE

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			T-5		T-6		T-7		T-8		T-9		T-10		PLAN		FINAL		PLAN		FINAL						
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL					
102-99	PORTABLE CHANGEABLE MESSAGE SIGN-TEMPORARY	ED	42		42																	84			84		
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY	14		8		9		11		11		11									64					
630-2-11	CONDUIT (F & I) (OPEN TRENCH)	LF	251		97		1980		1960		2107		1399									7794			7794		
630-2-12	CONDUIT (F & I) (DIRECTIONAL BORE)	LF	193		192		240		936		653		323									2537			2537		
632-7-1	CABLE (SIGNAL) (F&I)	PI	1		1																	2			2		
633-1-121	FIBER OPTIC CABLE (F&I)(UNDERGROUND) (2-12 FIBERS)	LF											24									24			24		
633-2-31	FIBER OPTIC CONNECTION (INSTALL) (SPLICE)	EA											4									4			4		
633-3-11	FIBER OPTIC CONNECTION HARDWARE (F&I) (SPLICE TRAY)	EA											1									1			1		
633-3-12	FIBER OPTIC CONNECTION HARDWARE (F&I) (SPLICE TRAY)	EA											1									1			1		
633-3-15	FIBER OPTIC CONNECTION HARDWARE (F&I) (PATCH PANEL, PRETERMINATED)	EA											1									1			1		
635-2-11	PULL & SPLICE BOXES (F&I) (PULL BOX) (17" x 30")	EA	13		7								2									22			22		
635-2-12	PULL & SPLICE BOXES (F&I) (FIBER OPTIC PULL BOX) (24" x 36" x 36")	EA					4		5		5		4									18			18		
635-2-13	PULL & SPLICE BOXES (F&I)(SPLICE VAULT) (30" x 60" x 48")	EA					1		1		1		1									4			4		
639-1-122	ELECTRICAL POWER SERVICE (F&I) (UNDERGROUND) (METER PURCHASED BY CONTRACTOR)	AS	1		1																	2			2		
639-2-1	ELECTRICAL SERVICE WIRE (F&I)	LF	150		120								501									771			771		
639-3-11	ELECTRICAL SERVICE DISCONNECT (F&I) (POLE MOUNT)	EA											1									1			1		
639-4-6	EMERGENCY GENERATOR - PORTABLE (INSTALL HOUSING ONLY)	EA	1		1																	2			2		
641-2-12	PRESTRESSED CONCRETE POLE (F&I) (TYPE P-11) (SERVICE POLE) (12 FT)	EA	1		1																	2			2		
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL (F&I)	EA	4		4																	8			8		
649-31-207	STEEL MAST ARM ASSEM. (F&I) (WS - 130 WITH SIGNAL BACKPLATES) (SINGLE ARM) (W/O LUMINAIRE)(46')	EA	1																			1			1		
649-31-208	STEEL MAST ARM ASSEM. (F&I) (WS-130 WITH SIGNAL BACKPLATES) (SINGLE ARM) (W/O LUMINAIRE)(60')	EA	2		1																	3			3		
649-31-299	STEEL MAST ARM ASSEM. (F&I) (WS-130 WITH SIGNAL BACKPLATES) (DOUBLE ARM) (W/O LUMINAIRE)(60'-60')	EA			1																	1			1		
650-1-311	TRAFFIC SIGNAL (F&I) (3 SECT) (1 WAY) (ALUMINUM)	AS	7		7																	14			14		
650-1-511	TRAFFIC SIGNAL (F&I) (5 SECT) (1 WAY) (ALUMINUM)	AS	1		1																	2			2		
653-191	PEDESTRIAN SIGNAL (F&I) (LED-COUNTDOWN) (1 WAY)	AS	4		4																	8			8		
660-4-11	VEHICLE DETECTION SYSTEM (F&I) (VIDEO, CABINET)	EA	3		3																	6			6		
660-4-12	VEHICLE DETECTION SYSTEM (F&I) (VIDEO, ABOVE GROUND)	EA	3		3																	6			6		
665-1-11	PEDESTRIAN DETECTOR (F&I) (STANDARD)	EA	4		4																	8			8		
670-5-112	TRAFFIC CONTROLLER ASSEMBLY(F&I) (NEMA) (2 PRE. PLAN)	EA	1		1																	2			2		
682-1-11	CCTV CAMERA, DOME ENCLOSURE, PRESSURIZED	EA											1									1			1		
684-1-1	FIELD MANAGED ETHERNET SWITCH	EA	1		1																	2			2		
684-3-11	DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER	EA											1									1			1		
685-106	SYSTEM AUXILIARIES (F&I) (UNINTERRUPTIBLE POWER SOURCE)	EA	1		1																	2			2		
690-10	TRAFFIC SIGNAL HEAD ASSEMBLY (REMOVAL)	EA	6		6																	12			12		
690-34-1	POLE REMOVAL (DEEP) (DIRECT BURIAL)	EA	2		2																	4			4		
690-50	CONTROLLER ASSEMBLY, REMOVE (COMPLETE ASSEMBLY)	EA	1		1																	2			2		
690-80	SPAN WIRE ASSEMBLY, REMOVE	EA	1		1																	2			2		
690-90	REMOVE CONDUIT AND CABLING	PI	1		1																	2			2		
690-100	SIGNAL EQUIPMENT, MISCELLANEOUS REMOVE	PI	1		1																	2			2		
700-5-22	INTERNALLY ILLUMINATED SIGN (F&I) (LED) (12-18 SF)	EA	3		3																	6			6		
785-1-13	ITS POLE (F&I) (51 FT) (CONCRETE POLE WITHOUT LOWERING DEVICE)	EA											1									1			1		
785-2-132	ITS FIELD CABINET, (F&I) (TYPE 3365) (POLE MOUNT)	EA											1									1			1		



SCALE	AS NOTED		HDR Engineering, Inc. 2601 Cattlemen Road Suite 400 Sarasota, FL 34232-6233 FBPR Certificate of Authorization No. 4213	DATE	11/7/2014		MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER	BIJAN BEHZADI	TABULATION OF QUANTITIES	SHEET NO.	T-2
DESIGNED BY	EL		PROJECT NO.	6082960	FL. LICENSE NO.		43868					
DRAWN BY	EL											
CHECKED BY	BB											
No.	REVISIONS	DATE	BY									