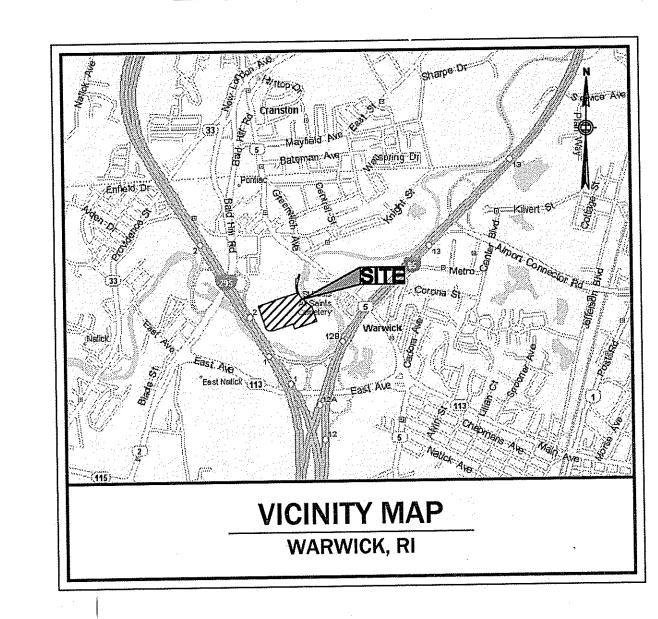
WARWICK MALL - FASHION STORE EXPANSION

BALD HILL ROAD (ROUTE 2), WEST NATICK ROAD,
LAMBERT L. LIND HIGHWAY (ROUTE 5), & GREENWICH AVE.
WARWICK, RHODE ISLAND
2011

	RAWING ATE	LAST REVISION	DRAWING NUMBER	DRAWING DESCRIPTION	SHEET NO.
	7/25/2011	08/08/2011	SPE - 1A	OVERALL SITE PLAN PARKING EXHIBIT	SHEET 1 OF 11
	6/20/2011	07/25/2011	1	EXISTING CONDITIONS PLAN	SHEET 2 OF 11
	3/20/2011 3/08/2011	10/26/2011	NS - 1	ABBREVIATION, LEGEND AND NOTES	SHEET 3 OF 11
	8/08/2011 8/08/2011	10/26/2011	C - 1	DEMOLITION AND EROSION CONTROL PLAN	SHEET 4 OF 11
		10/26/2011	C-2	GRADING AND DRAINAGE PLAN	SHEET 5 OF 11
	8/08/2011	10/20/2011	C-3	UTILITY PLAN	SHEET 6 OF 11
	8/08/2011		C-4	PARKING AND TRAFFIC CONTROL PLAN	SHEET 7 OF 11
	8/08/2011	10/14/2011		EROSION CONTROL DETAILS	SHEET 8 OF 11
	8/08/2011		<u>C-5</u>	DRAINAGE AND UTILITY DETAILS	SHEET 9 OF 11
08	8/08/2011	10/14/2011	<u>C-6</u>		SHEET 10 OF 11
O	8/08/2011	10/26/2011	<u>C-7</u>	DRAINAGE DETAILS	SHEET 11 OF 11
0	8/08/2011	10/14/2011	C-8	PARKING & TRAFFIC CONTROL DETAILS	SUCCI TT OL TT
1				·	•



PREPARED FOR:

WARWICK MALL OP, LLC AND WARWICK MALL, LLC
C/O MARK T. BRENNAN & CO.
400 BALD HILL ROAD
WARWICK, R.I. 02886
T (401) 732-0800
F (401) 732-1222

PREPARED BY:

RJO'CONNELL & ASSOCIATES, INC.

CIVIL ENGINEERS & LAND PLANNERS 80 MONTVALE AVENUE STONEHAM, MA 02180 PHONE: 781-279-0180 FAX: 781-279-0173 ATTN: TOM DICICCO P.E. EXT. 119

CONSULTANTS:

LOCAL COUNSEL
FLAHERTY, BUTTERFIELD & COSTELLO
ATTORNEYS AND COUNSELORS AT LAW
33 COLLEGE HILL ROAD
SUITE 200
WARWICK, RHODE ISLAND 02886
(401) 822-1800
(401) 822-1879 FAX

SURVEYOR
GAROFALO & ASSOCIATES, INC.
85 CORLISS STREET
PROVIDENCE, RI 02940
(401) 273-6000
(401) 273-1000 FAX
ATTN: SAMUEL A. WHITE, JR., PLS

GEOTECHNICAL
NORTHEST GEOTECHNICAL
65 OLD DANIELSON PIKE
FOSTER, RI 02825
(508) 598-3510
(401) 808-0927 MOBILE
ATTN: JAMES M. HANDANYAN

ENVIRONMENTAL/WETLANDS
ENVIRONMENTAL RESOURCES MANAGEMENT
399 BOYLSTON STREET, 6TH FLOOR
BOSTON, MA 02116
(617) 646-7812
(617) 267-6447 FAX
ATTN: ANN MCMENEMY

GOVERNMENT/UTILITY CONTACTS:

POLICE DEPT.
99 VETERANS MEMORIAL DRIVE
WARWICK, RI 02886
PHONE: (401) 468-4200
FAX: (401) 468-4327

ATTN: DANIEL K. FLAHERTY

FIRE DEPT.

140 VETERANS MEMORIAL DRIVE
WARWICK, RI 02886
PHONE: (401) 468-4000
FAX: (401) 468-4043

PLANNING DEPT.
WARWICK CITY HALL ANNEX
3275 POST ROAD
WARWICK, RI 02886
PHONE: (401) 738-2000 EXT. 6289
FAX: (401) 732-9522

ZONING 3275 POST ROAD WARWICK, RI 02886 PHONE: (401) 738-2000 FAX: (401) 738-2000 PUBLIC WORKS
925 SANDY LANE
WARWICK, RI 02889
PHONE: (401) 738-2000 EXT. 6500
FAX: (401) 732-5208

SEWER AUTHORITY
125 ARTHUR W. DIVINE BLVD.
WARWICK, RI 02886
PHONE: (401) 739-4949
FAX: (401) 739-1414

WATER DEPT.
935 SANDY LANE
WARWICK, RI 02889
PHONE: (401) 738-2000 EXT. 6601
FAX: (401) 738-2000

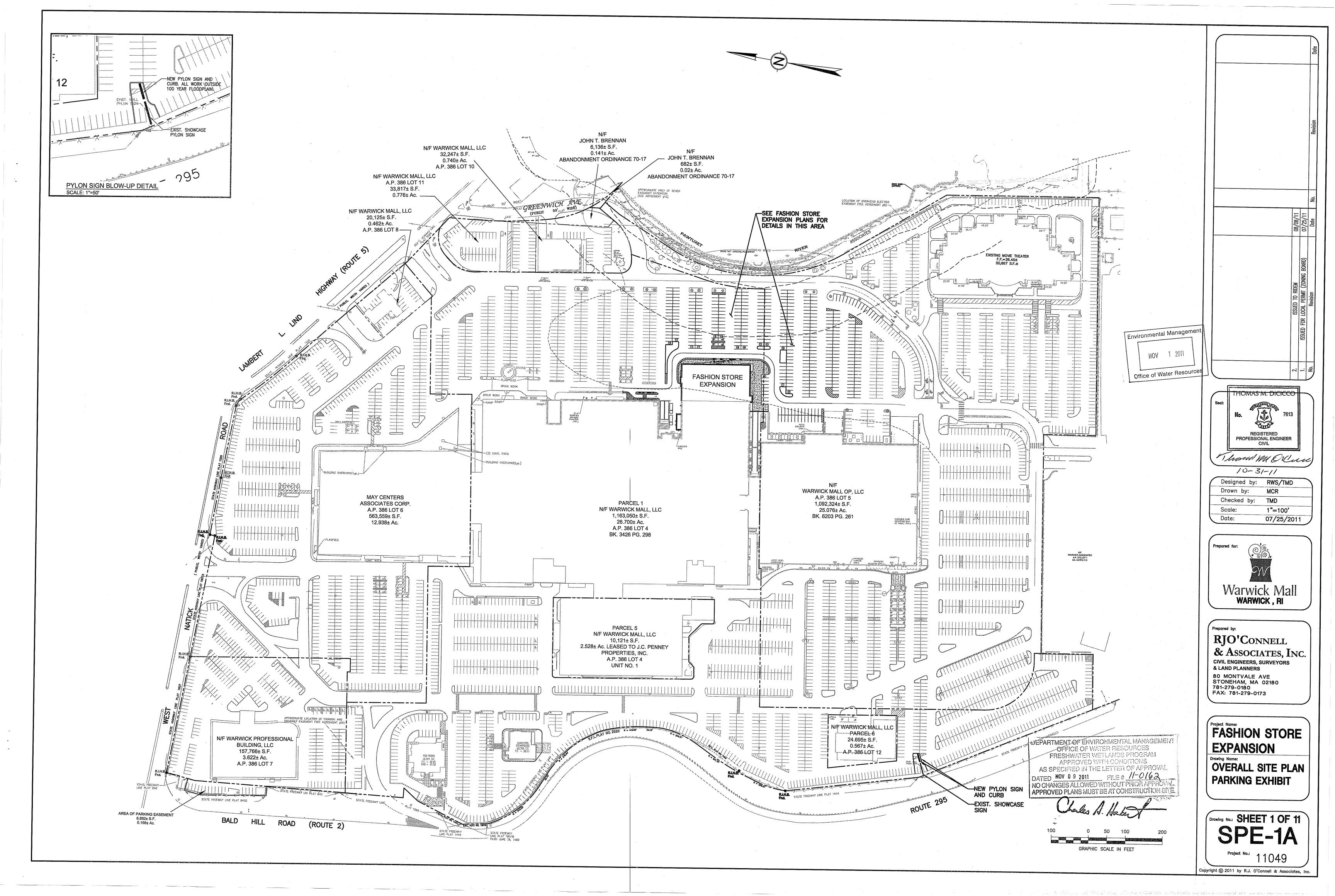
GAS COMPANY
NATIONAL GRID (FORMERLY NEW ENGLAND GAS COMPANY)
100 WEYBOSSET STREET
PROVIDENCE, RI 02903
PHONE: (401) 831-8800
FAX: (401) 331-1150

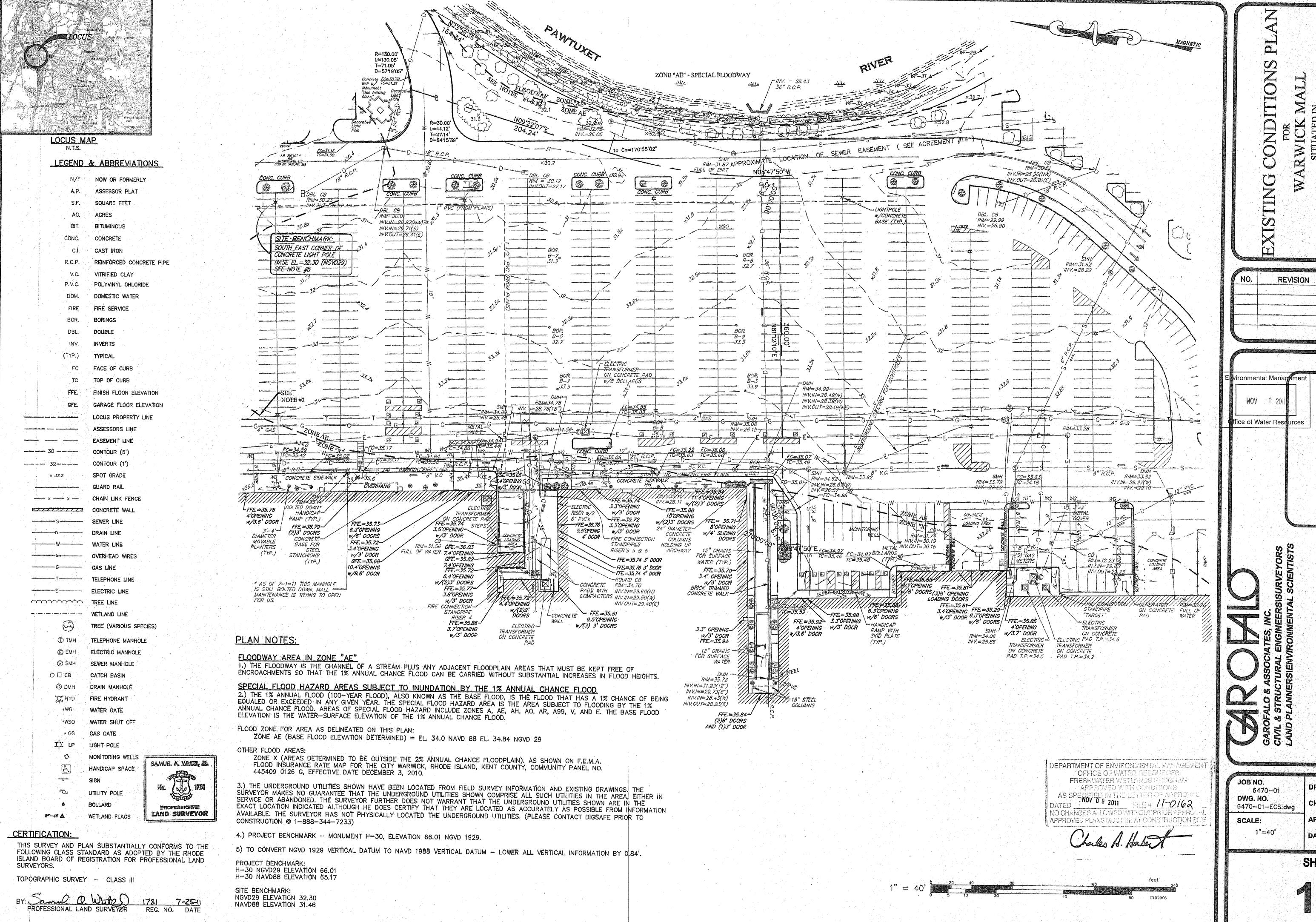
TELEPHONE/COMMUNICATIONS
VERIZON
85 HIGH STREET - 3RD FLOOR
PAWTUCKET, RI 02860
PHONE: (401) 727-9599

ELECTRIC COMPANY
NATIONAL GRID
280 MELROSE STREET
PROVIDENCE, RI 02907
PHONE: (401) 784-7414

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NOT FOR CONSTRUCTION
ISSUED FOR REVIEW
ISSUED FOR PERMIT
ISSUED FOR BID/PRICING
☐ ISSUED FOR CONSTRUCTION





BY DATE

DRAWN BY T.E.H. CHECKED

APPROVED S.A.W. DATE: JUNE 20, 2011

SHEET 2 OF 11

EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
W11071110	1				
DAM O	EMH •	ELECTRIC MANHOLE	0	®	GROUNDWATER MONITORING WELL
9	SMH •	SEWER MANHOLE		TC 219.50 BC 219.00	TOP\BOTTOM OF CURB
Deft ©	TMH	TELEPHONE MANHOLE		XT.O.W. 219.50	TOP OF WALL
Q kser	WMH	WATER MANHOLE		X8.0.W. 219.50	BOTTOM OF WALL
	s	SEWER LINE (GRAVITY)	举 (P	8	LIGHT POLE
	***************************************	WATER LINE			CURBEDISLAND
~~~~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<b>—</b>	GAS LINE			STRIPED/PAINTED ISLAND
		OVERHEAD ELEC, TELE, AND FIRE ALARM CONDUIT	pully delighter on the delighter of the	CONC. SWK	CURB
	UE/T/FA	UNDERGROUND ELEC, TELE, AND FIRE ALARM CONDUIT		BIT. SWK	CEMENT CONCRETE SIDEWALK BITUMINOUS CONCRETE SIDEWALK
		PLUG (CAP)	<u> </u>	SGE	SLOPED GRANITE EDGING
- NY	<u> </u>	WATER GATE VALVE		всс	BITUMINOUS CONCRETE CURB
, sep		WATER SHUT OFF		PCC	PRECAST CONCRETE CURB
	<u> </u>	GAS VALVE		VGC	VERTICAL GRANITE CURB
oso C		GAS SHUT OFF	,ô.	_	MOUNTED TRAFFIC SIGN
win	нұр	HYDRANT		4 4>	PAVEMENT DIRECTIONAL ARROWS
A.	×.	HYDRANT WITH BOLLARDS		CW OR	CROSSWALK (12" WHITE LINES)
-400	UP	UTILITY POLE		STOP OR -#L	STOP LINE (12")
	EHH	ELECTRIC HANDHOLE		□□ or ∠□\	WHEELCHAIR RAMP
	4±4.	TEE	. swet	" BAIT" "	BROKEN WHITE LANE LINE (4")
	-+	REDUCER OR INCREASER	Brez	_ Bvcr	BROKEN YELLOW CENTERLINE (4")
	<b>=</b>	STAKED HAYBALE AND SILT FENCE	SPEAL.	OTCL	DOUBLE YELLOW CENTERLINE (2x4")
	XX	CONSTRUCTION FENCE 1' CONTOUR LINE	5727	SYCL	SOLID YELLOW CENTERLINE (4")
*218.60	—-101—- ×219.50	SPOT GRADES	\$1777.	SYEL	SOLID YELLOW EDGE LINE (4")
216×60	CB		5954	SHEL	SOLID WHITE EDGE LINE (4")
Ö	] 🖼	CATCH BASIN (SINGLE GRATE)	993.1	SWILL	SOLID WHITE LANE LINE (4")
	AD Se	AREA DRAIN		- EMAST -	BROKEN WHITE GUIDE LINE (4")
© Cale	DMH •	DRAINAGE MANHOLE	~~~	~~~	TREE LINE
19,365	<del></del>	DRAIN PIPE	~~~~~~~		STONE WALL
******	<del></del>	FLOW DIRECTION			RAILROAD TRACKS
	<b>8</b>	SPLASH PAD/RIP RAP EMBANKMENT		<b>+</b> B	BOLLARD
	▶.FES	FLARED END SECTION	Name de la	• FDP	FLEXIBLE DELINEATOR POSTS
-	päki	SLOPE RATIO (HORIZONTAL TO VERTICAL)	• WF/1		EXISTING BORDERING VEGETATED WETLANDS (W/FLAGS)
		RETAINING WALL		—uu—	UNDERDRAIN
	HDWL	HEADWALL		FD	FOUNDATION DRAIN
<i>,</i> ,,,		GUARD RAIL.		——so—— тв	SUBDRAIN
		WOOD FENCE	TP	тр П	TEST BORING LOCATION TEST PIT LOCATION
×××	# # \ # #	CHAIN LINK FENCE	2	B	BIKE RACK

	ABBREV	I A T	IONS
ABAN	ABANDON	L	LENGTH
AD ADJ	AREA DRAIN ADJUST	LP LOW	LIGHT POLE LIMIT OF WORK
В	BORING	MAX MH	MAXIMUM MANHOLE
BC	BOTTOM OF CURB BITUMINOUS	MIN	MINIMUM
	BITUMINOUS CONCRETE	MISC MW	MISCELLANEOUS MONITORING WELL
ВМ	BUILDING BENCH MARK	N	NORTH
BOS BOW	BOTTOM OF SLOPE BOTTOM OF WALL	NIC NTS	NOT IN CONTRACT NOT TO SCALE
BWL1.	BROKEN WHITE LANE LINE	oc	ON CENTER
CATV	CABLE TELEVISION	OD	OUTSIDE DIAMETER
CBCI	CATCH BASIN WITH CURB INLET	OW	OVERHEAD WIRE OBSERVATION WELL
CC CFS	CART CORRAL CUBIC FEET PER SECOND	PL	PROPERTY LINE
CI CLDI	CAST IRON (PIPE) CEMENT LINED DUCTILE IRON (PIPE)	PROP	PROPOSED
CMP	CORRUGATED METAL PIPE	PT	PROTECT POINT (OR POINT OF TANGENT)
CONC	CONCRETE CORRUGATED POLYETHYLENE PIPE	PVC	POLYVINYL CHLORIDE (PIPE) PERFORATED CORRUGATED POLYETHYLENE PI
CW	CROSS WALK CUBIC YARD	Q	FLOW (CUBIC FEET PER SECOND)
DBL	DOUBLE	RC	REINFORCED CONCRETE
DEM	DEMOLISH	R&R R&S	REMOVE & RELOCATE/RESET REMOVE & STACK
DIA DMH	DIAMETER DRAIN MANHOLE	RCP RED	REINFORCED CONCRETE PIPE REDUCER
DS DW	DOMESTIC WATER SERVICE DRY WELL	RELOC	RELOCATE
DWG DYCL	DRAWING DOUBLE YELLOW CENTERLINE	REM RML	REMOVE REMODEL
1		RET ROW	RETAIN, RETAINING OR RETENTION RIGHT OF WAY
EHH EL	ELECTRIC HANDHOLE ELEVATION	RR	RAILROAD
ELEC EMH	ELECTRIC MANHOLE	SD SF	Subdrain Square feet
EOP	EDGE OF PAVEMENT	SGE SMH	SLOPED GRANITE EDGING SEWER MANHOLE
EXIST	EXISTING	SPEC	SPECIFICATION
FA FDP	FIRE ALARM FULL DEPTH PVMNT	STA	STATION STANDARD
FES FF	FLARED END SECTION FINISH FLOOR	SD SWEL	SUBDRAIN SOLID WHITE EDGE LINE
FPS FS	FEET PER SECOND FIRE SERVICE	SWK	SIDEWALK
FŤ	FOOT/FEET	SYCL	SOLID WHITE LANE LINE SOLID YELLOW CENTERLINE
FD	FOUNDATION DRAIN	SYEL	SOLID YELLOW EDGE LINE
GAL. GC	GALLON GENERAL CONTRACTOR	TB	TEST BORING TOP OF CURB
GI GPD	GALVANIZED IRON (PIPE) GALLONS PER DAY	TEL TMH	TELEPHONE TELEPHONE MANHOLE
GPM	GALLONS PER MINUTE	TOS TOW	TOP OF SLOPE TOP OF WALL
GRAN GV	GRANITE GAS VALVE	TP	TEST PIT
GV&B GW	GATE VALVE & BOX GROUND WATER	TS&V TYP	TAPPING SLEEVE & VALVE TYPICAL
HOR	HORIZONTAL	UP	UTILITY POLE
HT HDWL	HEIGHT HEADWALL	UD	UNDER DRAIN
HWY HYD	HIGHWAY	V VCP	VAN ACCESSIBLE HP SPACE VITRIFIED CLAY PIPE
IN	HYDRANT INCHES	VERT	VERTICAL
INCL.	INCLUDE	wv	WATER GATE
INST INV (OR I)	INSTALLED INVERT	HMW	WATER MANHOLE
<u> </u>		<u> </u>	

T	RAFF	1 (	)	CONTRO	L	S C	HEDULE
SIGN NUMBER	SIGN	SIZE O	F SIGN HEIGHT	DESCRIPTION	MOUNT TYPE	MOUNT HEIGHT	REMARKS
R1-1	\$10P	30"	30"	WHITE ON RED	CHANNEL	7'-0"	REFLECTORIZED SIGN
R7-8	<b>5</b>	12"	18"	BLUE & GREEN ON WHITE	CHANNEL	7'-0"	REFLECTORIZED SIGN
R-7506	VAN ACCESSIBLE	12"	6"	WHITE ON BLUE	CHANNEL	6'-6"	REFLECTORIZED SIGN
R7-1	HO PARKING FIRE LANE	12"	18"	RED ON WHITE	CHANNEL	7'-0"	REFLECTORIZED SIGN (MODIFIED WORDING)
R7-6	NO PARKING LOADING ZONE	12"	18*	BLACK ON WHITE	CHANNEL	7'-0"	REFLECTORIZED SIGN
R5-1	бо нот	30"	30 <b>"</b>	RED ON WHITE	CHANNEL	7'-0"	REFLECTORIZED SIGN

### PROPOSED STORMWATER DRAINAGE SYSTEM MAINTENANCE PROGRAM

THE FOLLOWING MAINTENANCE PLAN SHALL BE ADHERED TO FOLLOWING THE COMPLETION OF CONSTRUCTION AND STABILIZATION OF THE PROJECT SITE.

PARTY RESPONSIBLE FOR IMPLEMENTATION

WARWICK MALL OP, LLC AND WARWICK MALL. LLC C/O MARK T. BRENNAN & COMPANY, INC.

400 BALD HILL ROAD WARWICK, RI 02886 (401) 732-0800

a) A CHECKLIST OF ALL STORMWATER COMPONENTS WILL BE DEVELOPED AND LEFT AT THE MALL OFFICE IN A MAINTENANCE LOGBOOK. EACH TIME A SYSTEM UNDERGOES A CHECK OR MAINTENANCE PROCEDURE, IT WILL BE DOCUMENTED ON THE CHECKLIST.

b) THE PARKING LOTS WILL BE SWEPT ON A SEMI ANNUAL BASIS TO REMOVE ACCUMULATED GRIT AND DEBRIS. SINCE MOST STORMWATER POLLUTANTS TRAVEL WITH THE SUSPENDED SOLIDS CONTAINED IN STORMWATER RUNOFF, SWEEPING WILL HELP TO KEEP THE PARKING LOTS FREE OF LITTER THAT CAN BE UNSIGHTLY AND MAY CLOG STORMWATER CONVEYANCE SYSTEMS.

c) PROPOSED CATCH BASIN SUMPS AND OIL/GRIT SEPARATORS WILL BE INSPECTED IN THE SPRING AND FALL AND CLEANED WHEN HALF FULL OF PARTICLES AND/OR DEBRIS. OIL/WATER SEPARATOR HOODS WILL BE INSPECTED AT THIS TIME AND REPLACED AND/OR REPAIRED AS NECESSARY. CARE MUST BE TAKEN SO AS TO AVOID DAMAGE TO THE INTERIOR OF THE BASIN DURING CLEANING.

d) THE OUTLET HEADWALLS WILL BE INSPECTED ON A SEMI ANNUAL BASIS (SPRING AND FALL) AND MAINTAINED IN PROPER WORKING ORDER AT ALL TIMES. DURING THESE INSPECTIONS ANY DEBRIS PRESENT NEAR THE HEADWALL WILL BE REMOVED. ANY DEBRIS FOUND INSIDE THE PIPES WILL ALSO

e) THE SUBSURFACE INFILTRATION AND FLOOD STORAGE STRUCTURES WILL BE INSPECTED TWICE A YEAR. SEDIMENT AT THE INLETS WILL BE REMOVED VIA JET VACUUM AND DISPOSED OF LEGALLY IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. THE CHECK VALVE ON THE STORAGE

STRUCTURE WILL BE CLEANED OF ANY TRASH AND DEBRIS AND ANY STRUCTURAL DAMAGE OR MALFUNCTIONING REPAIRED UPON DISCOVERY.

f) FOR PARKING AND DRIVEWAY, AND PEDESTRIAN WALKWAY DE-ICING, A NON-SODIUM DE-ICING COMPOUND WILL BE USED. TYPICALLY, CALCIUM CHLORIDE IS THE PREFERRED ALTERNATIVE THAT IS BENIGN ENVIRONMENTALLY. THE NON-SODIUM SPECIFICATION ALLOWS THAT OTHER NON-HARMFUL SALTS OR DE-ICING AGENTS MAY BE USED. g) POST CONSTRUCTION INSPECTIONS AND MAINTENANCE OF ALL STORMWATER BMPs SHALL COMPLY WITH THE REQUIREMENTS OF PART 1.C OF THE MALL'S INDIVIDUAL RIDES PERMIT NO. R10023175.

#### <u>JTILITY NOTES</u>

ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 5 FEET OF COVER AND A MAXIMUM OF 6 FEET OF COVER EXCEPT AS NOTED OR DETAILED OTHERWISE. GREATER DEPTHS ARE PERMITTED WHERE REQUIRED TO AVOID CONFLICTS WITH OTHER UTILITIES.

GENERALLY, WATER MAIN FITTINGS IDENTIFIED ON THIS DRAWING ARE SHOWN FOR INSTALLATION JRPOSES. THE CONTRACTOR SHALL NOTE THAT NOT ALL FITTINGS MAY BE NOTED, SHOWN,

ALL WATER MAIN FITTINGS, TEES, HYDRANTS, ETC. SHALL BE RESTRAINED WITH CONCRETE THRUST

ALL FIRE HYDRANTS SHALL BE INSTALLED WITH A 6" C.L.D.I. RUN OUT AND SHALL BE INSTALLED WITH APPROPRIATELY SIZED GATE VALVE, BOX, AND TEE FITTING. ALL HYDRANT ASSEMBLIES SHALL MEET LOCAL MUNICIPAL SPECIFICATION REQUIREMENTS AND SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL MUNICIPAL REQUIREMENTS. GATE VALVE SHALL BE A MAXIMUM OF 5'-0" FROM HYDRANT. 5. DOMESTIC WATER SERVICES 2.5" AND SMALLER SHALL BE TYPE K COPPER TUBING AND SHALL BE INSTALLED WITH APPROPRIATELY SIZED CORPORATION STOP WITH APPROVED SADDLE, CURB STOP, AND

ALL WATER MAINS 3" AND LARGER SHALL BE CLASS 52 CEMENT LINED DUCTILE IRON CONFORMING D ANS A21.50 AND ANS A21.51 AND SHALL BE INSTALLED WITH APPROPRIATELY SIZED FITTINGS AND

7. ALL WATER MAIN APPURTENANCES. MATERIALS. METHODS OF INSTALLATION AND TESTING REQUIREMENTS SHALL MEET OR EXCEED ALL LOCAL MUNICIPAL REQUIREMENTS.

PRESSURE AND LEAKAGE TEST, DISINFECTION AND FLUSHING SHALL BE IN ACCORDANCE WITH ALL LOCAL MUNICIPAL STANDARDS AND REQUIREMENTS INCLUDING, BUT NOT LIMITED TO THE INSPECTION FEE REQUIRED BY THE WARWICK SEWER AUTHORITY. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS IN CONNECTION WITH UTILITY TESTS, FLUSHING AND INSPECTIONS AS REQUIRED BY THE LOCAL MUNICIPALITY. WATER LINES MUST BE COMPLETED INTO BUILDING PRIOR TO TESTING.

PRIMARY WATER METER AND BACKFLOW PREVENTER SHALL BE LOCATED INSIDE THE BUILDING AT THE POINT WHERE THE WATER LINE ENTERS THE BUILDING UNLESS OTHERWISE NOTED OR DETAILED ON

10. A MINIMUM OF 10 FEET CLEAR HORIZONTALLY SHALL BE MAINTAINED BETWEEN SANITARY SEWER MAINS AND ALL WATER MAINS, HYDRANT ASSEMBLIES OR SERVICES. WHENEVER CONDITIONS PREVENT A LATERAL SEPARATION OF 10 FEET TO A WATER MAIN, THE WATER MAIN SHALL BE LAID IN A SEPARATE TRENCH AND THE ELEVATION OF THE CROWN OF THE SEWER SHALL BE AT LEAST 18 INCHES BELOW THE INVERT OF THE WATER MAIN.

11. A MINIMUM OF 12" VERTICAL CLEARANCE SHALL BE MAINTAINED WHERE WATER MAINS CROSS STORM DRAIN LINES, AND ALL OTHER UTILITIES.

12. WHERE SANITARY SEWERS CROSS WATER MAINS, THE SEWER SHALL BE LAID AT SUCH AN ELEVATION THAT THE CROWN OF THE SEWER IS AT LEAST EIGHTEEN INCHES BELOW THE INVERT OF THE WATER MAIN. IF THE ELEVATION OF THE SEWER CANNOT BE VARIED TO MEET THIS REQUIREMENT, THE WATER MAIN SHALL BE RELOCATED TO PROVIDE THIS SEPARATION AND CONSTRUCTED WITH MECHANICAL JOINT PIPE FOR A DISTANCE OF TEN FEET ON EACH SIDE OF THE SEWER. ONE FULL LENGTH OF WATER MAIN SHALL BE CENTERED OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.

13. ALL GRAVITY SEWER PIPE SHALL BE POLYVINYL CHLORIDE PIPE (P.V.C.), S.D.R. 35 AND SHALL CONFORM WITH ASTM—D3034 UNLESS NOTED OTHERWISE.

14. PROPOSED GAS SERVICE LOCATIONS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL CONFIRM WITH THE GAS COMPANY THAT GAS LINE INSTALLATION SHALL BE BY THE LOCAL GAS COMPANY. THE CONTRACTOR SHALL GIVE THE GAS COMPANY ADVANCE NOTICE OF WHEN THE GAS LINE CAN BE INSTALLED. THE CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, BEDDING AND BACKFILL AND

15. EXACT LOCATION OF UTILITY STUBS FOR BUILDING CONNECTIONS SHALL BE VERIFIED WITH THE BUILDING DRAWINGS. SERVICE STUBS TO THE BUILDING SHALL BE INSTALLED TO A POINT 5 FEET FROM THE BUILDING WALL UNLESS OTHERWISE NOTED OR DETAILED, SHALL BE PROVIDED WITH TEMPORARY PLUGS AT THE END AND THE INSTALLED LOCATIONS SHALL BE MARKED AND IDENTIFIED WITH WITNESS STAKES AND PROTECTED.

16. DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OR FITTING.

17. THE CONTRACTOR SHALL INSTALL THE PRIMARY AND SECONDARY UNDERGROUND CONDUITS AND PROVIDE THE SWITCH GEAR PAD PER THE UTILITY REQUIREMENTS. BUILDING ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING THE CONDUCTOR.

18. LIGHT POLE LOCATIONS ARE SHOWN GRAPHICALLY FOR COORDINATION PURPOSES. SEE SITE LIGHTING DRAWINGS FOR DESIGN INFORMATION. SITE CONTRACTOR TO INSTALL CONDUITS AND LP BASES. NO DIRECT BURY CABLE SHALL BE ALLOWED.

1. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSTRUCTED, INSPECTED AND MAINTAINED IN ACCORDANCE WITH ALL CURRENT LOCAL MUNICIPAL, STATE AND FEDERAL REGULATIONS AND THE STORMWATER POLLUTION PREVENTION PLAN (SWPP) PREPARED FOR THE FASHION STORE EXPANSION (SEE SEPARATE DOCUMENT FOR DETAILS). 2. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY SITE WORK OR EARTHWORK OPERATIONS, SHALL BE MAINTAINED DURING CONSTRUCTION, AND SHALL REMAIN IN PLACE UNTIL ALL SITE WORK IS COMPLETE AND GROUND COVER IS ESTABLISHED.

3. THE CONTRACTOR SHALL NOTIFY THE TOWN'S PLANNING STAFF AND CONSERVATION OFFICER AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF ANY SITEWORK.

**EROSION CONTROL NOTES** 

4. THE CONTRACTOR SHALL AT HIS EXPENSE SURVEY AND MARK OUT IN THE FIELD THE LIMITS OF CLEARING (I.E. HAYBALE/SILTFENCE LINE) AND RE-FLAG (WHERE NECESSARY) THE WETLAND BOUNDARY FOR APPROVAL BY THE TOWN PRIOR

5. THE LIMIT OF WORK LINE FOR THE AREA TO BE CLEARED AND GRUBBED SHALL BE THE SAME AS THE LIMIT OF WORK LINE NECESSARY FOR GRADING PURPOSES, (IE., THE GRADING LIMITS AROUND THE PERIMETER OF THE PROJECT AREA). THIS LINE IS THE FILTER ROLL (WATTLE) LINE OR AS NOTED.

6. PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES AT THE SITE, THE CONTRACTOR SHALL ENGAGE AN INDIVIDUAL WITH SPECIFIC PROFESSIONAL TRAINING AND EXPERTISE IN EROSION AND SEDIMENT CONTROL. THE EROSION CONTROL MONITOR SHALL PREPARE REPORTS WHICH SHALL BE KEPT ON SITE AT ALL TIMES AND SHALL BE SHOWN TO LOCAL STATE, AND FEDERAL AGENTS UPON REQUEST. THE REPORTS SHALL INDICATE THE STATUS OF THE EROSION CONTROLS AND ANY MAINTENANCE REQUIRED AND PERFORMED. THE REPORTS SHALL CONFORM TO THE REQUIREMENTS OF THE RHODE ISLAND POLLUTANT DISCHARGE ELIMINATION SYSTEM (RIPDES) PERMIT AND THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP).

7. STOCKPILES SHALL BE SURROUNDED ON THEIR PERIMETERS WITH STAKED HAYBALES OR FILTER ROLLS TO PREVENT AND/OR CONTROL SILTATION AND EROSION. THE LOCATION OF THE STOCKPILE AREAS MAY BE MODIFIED AS APPROVED BY

8. TOPS OF STOCKPILES SHALL BE COVERED IN SUCH A MANNER THAT STORMWATER DOES NOT INFILTRATE THE MATERIALS AND RENDER THEM UNSUITABLE FOR USE AS FILL.

9. ALL DISTURBED OR EXPOSED AREAS SUBJECT TO EROSION SHALL BE STABILIZED WITH MULCH OR SEEDED FOR TEMPORARY VEGETATIVE COVER WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED OR HAVE TEMPORARILY BEEN SUSPENDED FOR MORE THAN FOURTEEN DAYS, OR WHEN FINAL GRADES ARE REACHED IN ANY PORTION OF THE SITE, STABILIZATION PRACTICES SHALL BE IMPLEMENTED WITHIN THREE DAYS. AREAS WHICH REMAIN DISTURBED BUT INACTIVE FOR AT LEAST THIRTY DAYS SHALL RECEIVE TEMPORARY SEEDING. IN ALL CASES, STABILIZATION MEASURES SHALL BE IMPLEMENTED AS SOON AS POSSIBLE AND IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL GUIDELINES.

10. EARTHWORK ACTIVITY ON THE SITE SHALL BE DONE IN A MANNER SUCH THAT RUNOFF IS DIRECTED TO TEMPORARY DRAINAGE DIVERSION SWALE AND THE TEMPORARY SEDIMENTATION/DEWATERING BASIN PRIOR TO DISCHARGE FROM THE SITE. 11. TEMPORARY DRAINAGE SWALES, STONE CHECK DAMS AND SEDIMENTATION BASIN SHALL BE UTILIZED AS NEEDED AND SHALL BE RELOCATED AS REQUIRED AS CONSTRUCTION PROGRESSES.

12. DRAIN OUTFALLS SHALL BE PROTECTED WITH HAYBALES UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED. 13. SILT BAGS SHALL BE INSTALLED AT ALL EXISTING & PROPOSED CATCH BASINS LOCATED IN AREAS SUBJECT TO STORMWATER RUN-OFF FROM PROPOSED EARTH DISTURBING ACTIVITIES, OR AS DIRECTED BY THE OWNER/ENGINEER. NO SEDIMENT SHALL ENTER THE ON-SITE OR OFF-SITE DRAINAGE SYSTEMS AT ANY TIM 14. ALL EROSION CONTROL MEASURES SHALL BE ROUTINELY INSPECTED, CLEANED AND REPAIRED OR REPLACED AS

NECESSARY THROUGHOUT ALL PHASES OF CONSTRUCTION. INSPECTIONS SHALL TAKE PLACE AT LEAST ONCE EVERY (7 CALENDAR DAYS AND WITHIN 24 HOURS FOLLOWING A RAINFALL EVENT EXCEEDING 0.25 INCH OF PRECIPITATION. THE SUBSURFACE INFILTRATION STRUCTURE SHALL NOT, AT ANY POINT DURING CONSTRUCTION, BE USED AS A SEDIMENTATION BASIN. TEMPORARY DRAINAGE SWALES SHALL USE FILTER ROLL CHECK DAMS TO TREAT RUN-OFF PRIOR TO DISCHARGE TO SEDIMENT BASIN.

16. ANY DEWATERING REQUIRED IN CONSTRUCTING THE FLOOD STORAGE OR THE INFILTRATION STRUCTURES ON THE SITE SHALL DISCHARGE INTO THE TEMPORARY SEDIMENT/DEWATERING BASIN.

THE LOCATION OF FIBER ROLL (WATTLE) CHECK DAMS SHALL BE FIELD VERIFIED AND ADJUSTED AS NECESSARY DURING SITE PREPARATION OPERATIONS BY THE CONTRACTOR.

18. ALL PROPOSED SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH JUTE MESH AND PROTECTED FROM EROSION. 19. THE CONTRACTOR SHALL KEEP ON SITE AT ALL TIMES ADDITIONAL WATTLES, HAYBALS AND EXTRA SILT BAGS FOR

INSTALLATION AT THE DIRECTION OF THE ENGINEER OR THE CITY TO MITIGATE ANY EMERGENCY CONDITION. 20. THE ENTRANCE AND EXIT AREAS TO AND FROM THE SITE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT

TRACKING OR FLOWING OF SEDIMENT ONTO MALL RING ROAD. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO MALL RING ROAD MUST BE REMOVED IMMEDIATELY. 21. THE CONTRACTOR SHALL BE AWARE THAT THIS SITE IS SUSCEPTIBLE TO SOIL EROSION AND SENSITIVE TO ITS CONSEQUENCES. IT SHOULD BE NOTED THAT THE EROSION CONTROL MEASURES AS SHOWN ON THE DRAWINGS DEPICT THE MINIMUM REQUIRED CONTROL AND ARE REPRESENTATIVE OF A SINGLE PHASE OF CONSTRUCTION. THE CONTRACTOR SHALL

RESPONSIBLE FOR THE SITING, RELOCATION AND AUGMENTATION OF EROSION CONTROL DEVICES AS THE PROJECT PROGRESSES 22. THE CONTRACTOR SHALL NOTE THAT THE SOIL AT THIS SITE MAY MIGRATE THROUGH STANDARD HAYBALE AND SILT FENCE BARRIERS. IT IS THEREFORE IMPERATIVE THAT SURFACE RUNOFF BE DIRECTED THROUGH STILLING BASINS AND/OR SEDIMENT TRAPS TO SETTLE OUT SUSPENDED MATERIAL PRIOR TO DISCHARGE THROUGH HAYBALE / SILT FENCE PERIMETER BARRIERS.

THE PERIMETER BARRIERS SHALL NOT BE USED AS THE PRIMARY MEANS OF SUSPENDED MATERIAL REMOVAL. THE CONTRACTOR SHALL MINIMIZE THE AREA OF DISTURBED SOIL. EFFORTS SHALL BE MADE TO LIMIT THE TIME OF

AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:

A) BASE COURSE GRAVELS ARE INSTALLED IN AREAS TO BE PAVED B) A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED C) A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP-RAP HAS BEEN INSTALLED OR

D) EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED. 24. TEMPORARY SEED, FERTILIZER & MULCH SPECIFICATIONS:

A. WINTER RYE @ 112 LBS/ACRE (2.5 LBS./1,000 SF), IF SEEDING FROM AUGUST 15 TO SEPTEMBER 15. USE UP TO OCTOBER 15 FOR GROWTH IN FOLLOWING SPRING SEASON. MULCH FOR CURRENT SEASON. OATS @ 80 LBS/ACRE (2.0 LBS/1,000 SF), IF SEEDING FROM APRIL 1 TO MAY 15.

ANNUAL RYEGRASS @ 40 LBS/ACRE (1.0 LB/1,000 SF) FOR EARLY SPRING AND AUGUST 15 TO SEPTEMBER 15 PLANTING. (FOR USE WHERE APPEARANCE IS MORE IMPORTANT).

PERENNIAL RYEGRASS @ 30 LBS/ACRE (0.7 LBS/1,000 SF) FOR APRIL 1 TO JUNE 1 OR AUGUST 15 TO SEPTEMBER 15

B. PLANNING SHOULD BE DONE TO AVOID THE NEED FOR SEEDING AFTER SEPTEMBER 15. DISTURBED AREAS THAT

CANNOT BE SEEDED AS PER ABOVE OR BY SOD OR HYDROSEED WITH TACKIFIERS AND MULCH SHOULD BE STABILIZED C. FERTILIZERS: USE BALANCED BUT LOW PHOSPHATE FERTILIZERS. INCORPORATE EVENLY INTO WELL PREPARED

SEEDBED. ROLL OR COVER SEED LIGHTLY. D. MULCH: USE STRAW @ 2 TONS/ACRE (100 LBS/1,000 SF).

#### 25. WINTER CONSTRUCTION NOTES:

ALL PROPOSED POST-DEVELOPMENT LANDSCAPED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY NOVEMBER 15TH, OR WHICH ARE DISTURBED AFTER NOVEMBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 4:1 AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE PLACEMENT OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND.

### **CONSTRUCTION SEQUENCE NOTES**

1. ESTABLISH LOCATION FOR A TEMPORARY STABILIZED CONSTRUCTION ENTRANCE/EXIT PADS.

- 2. INSTALL PERIMETER FIBER ROLLS (WATTLES) AND CONSTRUCTION FENCE IN THE LOCATIONS SHOWN.
- 3. INSTALL FILTER BAGS AT EXISTING CATCH BASINS IN THE VICINITY OF THE WORK.
- 4. COMMENCE DEMOLITION ACTIVITIES INCLUDING SAW CUT AND REMOVAL OF PAVEMENT AND LANDSCAPE IN LOCATION SHOWN.
- 5. CONSTRUCT TEMPORARY SEDIMENTATION/DEWATERING BASIN.
- 6. COMMENCE LIMITED SITE GRADING AS REQUIRED TO CONSTRUCT IMPROVEMENTS.
- DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED SHALL BE TEMPORARILY SEEDED AND WATERED AS SOON AS PRACTICABLE, BUT IN NO CASE MORE THAT 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS
- 8. INSTALL ALL STORM SEWER PIPES, UNDERGROUND UTILITY LINES AND SUBSURFACE FLOOD STORAGE UNITS AS SHOWN ON THE PLANS WITH APPROPRIATE EROSION CONTROL MEASURES TO ELIMINATE SILTATION FROM ENTERING PIPE SYSTEMS.
- 9. COMPLETE CONSTRUCTION OF NEW STORM DRAINAGE SYSTEM INCLUDING OIL/GRIT SEPARATORS AS
- 10. FINALIZE PAVEMENT SUBGRADE PREPARATION.
- 11. COMPLETE CONSTRUCTION OF BUILDING EXTERIOR.
- 12. INSTALL PAVEMENT BASE COURSE AS REQUIRED, FINE GRADE AND INSTALL PAVEMENT BINDER COURSE. 13. GRADE, SEED AND PLANT LANDSCAPED AREAS
- 14. INSTALL PAVEMENT TOP COURSE AND TRAFFIC CONTROL AND PARKING SPACES.
- 15. REMOVE TEMPORARY CONSTRUCTION FENCING AND STABILIZED CONSTRUCTION ENTRANCE/EXIT PADS. 16. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES INCLUDING CATCH BASIN FILTER BAGS, AND FIBER ROLLS (WATTLES).

#### GENERAL NOTES

1. THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE.

THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIG SAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES. CONTACT DIG SAFE AT 1-888-DIG-SAFE (344-7233) OR www.digsafe.com. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION TAKEN BEFORE PROCEEDING WITH THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE

2. PROPERTY LINE, EXISTING UTILITY INFORMATION AND TOPOGRAPHY TAKEN FROM THE FOLLOWING SOURCES: A. PLAN ENTITLED, "EXISTING CONDITIONS PLAN FOR WARWICK MALL SITUATED IN WARWICK RHODE ISLAND" PREPARED BY GARAFALO & ASSOCIATES, INC. DATED JUNE 20, 2011. B. SITE IMPROVEMENTS AT MACARONI GRILL AND LONGHORN STEAKHOUSE OUT PARCELS BASED ON RECORD DESIGN PLANS ENTITLED "WARWICK MALL REDEVELOPMENT" PREPARED BY SUMNER SCHEIN, A DIVISION OF CARTER & BURGESS. INC. DATED AS REV. THRU 11/22/00

3. PROPERTY IS LOCATED IN FLOOD ZONES "X", & AE) PER FEMA FLOOD INSURANCE RATE MAP, PANEL NO. 445409-0126 G, EFFECTIVE DECEMBER 3, 2010. 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURVEY NECESSARY TO COMPLETE THE WORK INCLUDING ESTABLISHING AND MAINTAINING CONTROL POINTS AND BENCH MARKS. 5. ANY COORDINATES PROVIDED REFER TO THE CENTER OF STRUCTURES OR THE FACE OF CURBS AND FACE OF BUILDING FOUNDATIONS UNLESS OTHERWISE NOTED OR DETAILED. ALL COORDINATES ARE BASED ON THE SURVEYOR'S

6. WHERE SHOWN, DIMENSIONS ARE TO FACE OF CURB AND/OR TO FACE OF BUILDING FOUNDATION UNLESS NOTED OTHERWISE.

7. WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SITE WORK SPECIFICATIONS.

BORINGS WERE TAKEN FOR THE PURPOSE OF DESIGN AND SHOW CONDITIONS AT BORING POINTS ONLY. THEY DO NOT NECESSARILY SHOW THE NATURE OF ALL MATERIALS TO BE ENCOUNTERED DURING CONSTRUCTION 9. WETLANDS AS SHOWN WERE FLAGGED BY SUMNER SCHEIN, A DIVISION OF CARTER & BURGESS, DURING MAY OF 1999 AND FIELD LOCATED BY GAROFALO & ASSOCIATES. THE EDGE OF FRESHWATER WETLAND WAS RE-VERIFIED IN THE FIELD IN AUGUST 2006 BY ENVIRONMENTAL RESOURCES MANAGEMENT.

#### <u>DEMOLITION NOTES</u>

ASSUMED GRID SYSTEM.

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ANY PERMITS AND/OR CONNECTION FEES REQUIRED TO CARRY OUT THE WORK INCLUDING BUT NOT LIMITED TO DEMOLITION. DISPOSAL OF ALL DEMOLISHED MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL MUNICIPAL REQUIREMENTS. NO ON-SITE BURIAL OF DEMOLISHED MATERIALS IS PERMITTED. 3. DEMOLITION ACTIVITY ON SITE SHALL BE DONE IN A MANNER SUCH THAT RUNOFF IS DIRECTED TO THE SEDIMENT CONTROL FACILITIES. 4. REMOVE ALL BITUMINOUS CONCRETE AND, IF REQUIRED, BASE MATERIAL WITHIN PROPOSED LANDSCAPED AND GRASSED Office of Water Fesources 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROTECTING ALL EXISTING AND NEW SITE DRAINAGE

AND UTILITIES WHICH ARE TO REMAIN AND/OR BE CONSTRUCTED UNDER EACH PHASE OF CONSTRUCTION. 6. THE CONTRACTOR SHALL PROTECT, REMOVE AND/OR ABANDON EXISTING UTILITY SERVICES AS DESIGNATED ON THESE DRAWINGS AND AS REQUIRED TO COMPLETE THE WORK. . CUTTING AND PLUGGING OF EXISTING UTILITIES SHALL BE IN ACCORDANCE WITH THE RESPECTIVE UTILITY PROVIDERS REQUIREMENTS. WHEN REQUIRED BY LOCAL MUNICIPALITY OR GOVERNING UTILITY, SERVICES SHALL BE REMOVED TO THE MAIN LINE. NOTIFY UTILITY COMPANIES WHEN DEMOLITION WORK IS TO BEGIN.

8. PLUGGING OF ABANDONED SEWER, DRAIN AND WATER PIPES SHALL BE ACHIEVED BY USING BRICKS AND MORTAR, OR SUITABLE PLUGS/CAPS AVAILABLE FROM PIPE SUPPLIERS.

#### GRADING & DRAINAGE NOTES

1. ALL CATCH BASINS ON-SITE SHALL BE EQUIPPED WITH 4 FOOT SUMPS.

2. ALL STORM DRAINAGE PIPES SHALL BE CPP, UNLESS NOTED OTHERWISE. 3. ALL SERVICE CONNECTIONS SHALL BE CPP, UNLESS NOTED OTHERWISE.

4. A MINIMUM OF 6" VERTICAL CLEARANCE SHALL BE MAINTAINED WHERE WATER SERVICES CROSS STORM DRAIN LINES. 5. ALL SERVICE CONNECTIONS (I.E., ROOF AND CANOPY DRAINS) SHALL BE INSTALLED TO A POINT 5 FEET FROM THE BUILDING WALL UNLESS OTHERWISE NOTED OR DETAILED, SHALL BE PROVIDED WITH TEMPORARY PLUGS AT THE END AND THE INSTALLED LOCATIONS SHALL BE MARKED AND IDENTIFIED WITH STAKES.

6. CPP (CORRUGATED POLYETHYLENE PIPE) SHALL CONFIRM WITH AASHTO DESIGNATIONS M294 AND M252, SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) PLASTIC AND SHALL BE ADS N-12 PIPE AS MANUFACTURED BY ADVANCE DRAINAGE SYSTEM, INC. OR HANCOR "SURE-LOK" PIPE AS MANUFACTURED BY HANCOR, INC. OR APPROVED EQUAL UNLESS

RCP (REINFORCED CONCRETE PIPE) SHALL CONFORM TO ASTM STANDARDS, DESIGNATION C76, CLASS III AND SHALL MEET H-20 LOADING REQUIREMENTS UNLESS OTHERWISE NOTED OR DETAILED. 8. CMP (CORRUGATED STEEL PIPE) SHALL BE AT THE SPECIFIED GAGE ZINC GALVANIZED AND MANUFACTURED IN

CONFORMANCE WITH AASHTO M-36/ASTM A760 FROM MATERIALS MEETING AASHTO M-218. PIPE SHALL BE AS MANUFACTURED BY LANE ENTERPRISES, INC. OR APPROVED EQUAL. 9. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.

10. ALL DRAINAGE STRUCTURES SHALL BE PRECAST CONCRETE PER ASTM C478.

12. ALL DRAINAGE STRUCTURES AND STORM SEWER PIPES SHALL BE DESIGNED FOR H20 (HEAVY DUTY TRAFFIC)

### PARKING AND TRAFFIC CONTROL NOTES

1. HANDICAP ACCESSIBLE PARKING SPACES SHALL CONFORM TO THE CURRENT REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (A.D.A.) UNLESS OTHERWISE NOTED.

2. ACCESSIBLE PARKING SPACES DESIGNATED WITH A "V" SHALL BE SIGNED AS "VAN ACCESSIBLE" PER 3. ALL CURBING SHALL BE GRANITE, OR PRECAST CONCRETE UNLESS NOTED OR DETAILED OTHERWISE.

JOINT BETWEEN CURB AND PAVEMENT TO BE SEALED WITH A SILICONE SEALANT. 4. ALL LIMITS OF PAVEMENT SHALL BE CURBED UNLESS NOTED OR DETAILED OTHERWISE. 5. ALL STANDARD PARKING SPACES SHALL BE 9 FEET IN WIDTH BY 18 FEET IN LENGTH, WITH MINIMUM 25 FOOT MANEUVERING AISLES UNLESS NOTED OR DETAILED OTHERWISE.

6. ALL PAVEMENT STRIPING SHALL BE PAINTED WITH 2 COATS OF PAINT. 7. CONTRACTOR SHALL REFER TO ARCHITECTURAL/BUILDING PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF BUILDING APPURTENANCES INCLUDING VESTIBULE, SLOPED PAVING, EXIT PORCHES, RAMPS, TRUCK DOCKS, TRUCK WELL DETAILS PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE

PARKING AND TRAFFIC CONTROL PLANS ARE SCHEMATIC AND FOR LOCATION OF MARKINGS ONLY. SPECIFIC DETAILS FOR INSTALLATION OF PAVEMENT MARKINGS ARE PROVIDED AS PART OF THIS PLAN SET.

#### PAVEMENT NOTES

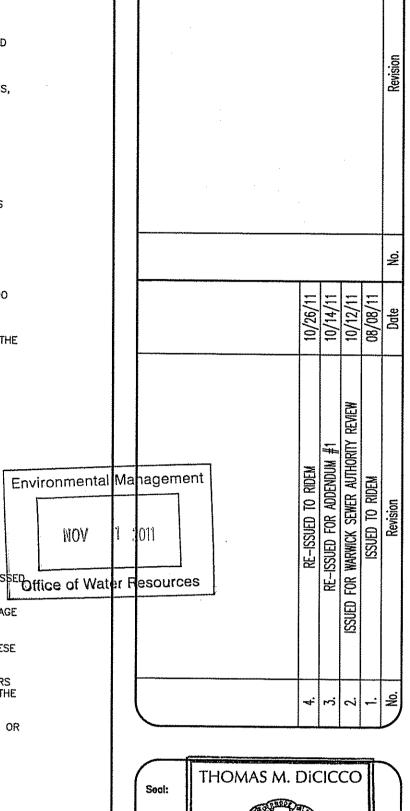
1. NEW ASPHALTIC AND CONCRETE PAVEMENT SHALL BE PLACED TO THE LIMITS INDICATED ON THESE PLANS. PAVEMENT CROSS SECTION SHALL BE AS DETAILED IN THIS PLAN SET. CONTRACTOR SHALL MATCH EXISTING PAVEMENT THICKNESS

SAWCUT AND PAVEMENT LIMITS ARE SHOWN AS APPROXIMATE ONLY. FINAL LIMITS SHALL BE DETERMINED IN THE FIELD PRIOR TO COMMENCEMENT OF PAVING OPERATIONS. 3. THE CONTRACTOR SHALL ADJUST ALL UTILITY CASTINGS TO THE PROPER LINE AND GRADE PRIOR TO AND IF

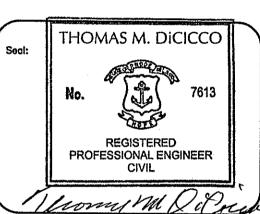
NECESSARY, AFTER PLACING FINAL PAVEMENT. 4. CONTRACTOR IS RESPONSIBLE FOR PROVIDING PAVEMENT SHIMMING MATERIAL WHERE NECESSARY TO PROVIDE CONTINUOUS POSITIVE DRAINAGE.

5. REPAIR DETERIORATED CURB AS NEEDED.

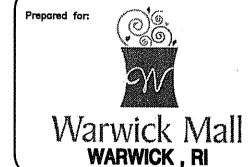
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES FRESHWATER WETLANDS PROGRAM APPROVED WITH CONDITIONS NO CHANGES ALLOWED WITHOUT PRIOR APPRICA APPROVED PLANS MUST BE AT CONSTRUCTION SITE



NOV



10-31-11 Designed by: TMD/JJS MCR Drawn by: TMD Checked by: Scale: N.T.S. Date: 08/08/2011



Prepared by: RIO'CONNELL & Associates, Inc.

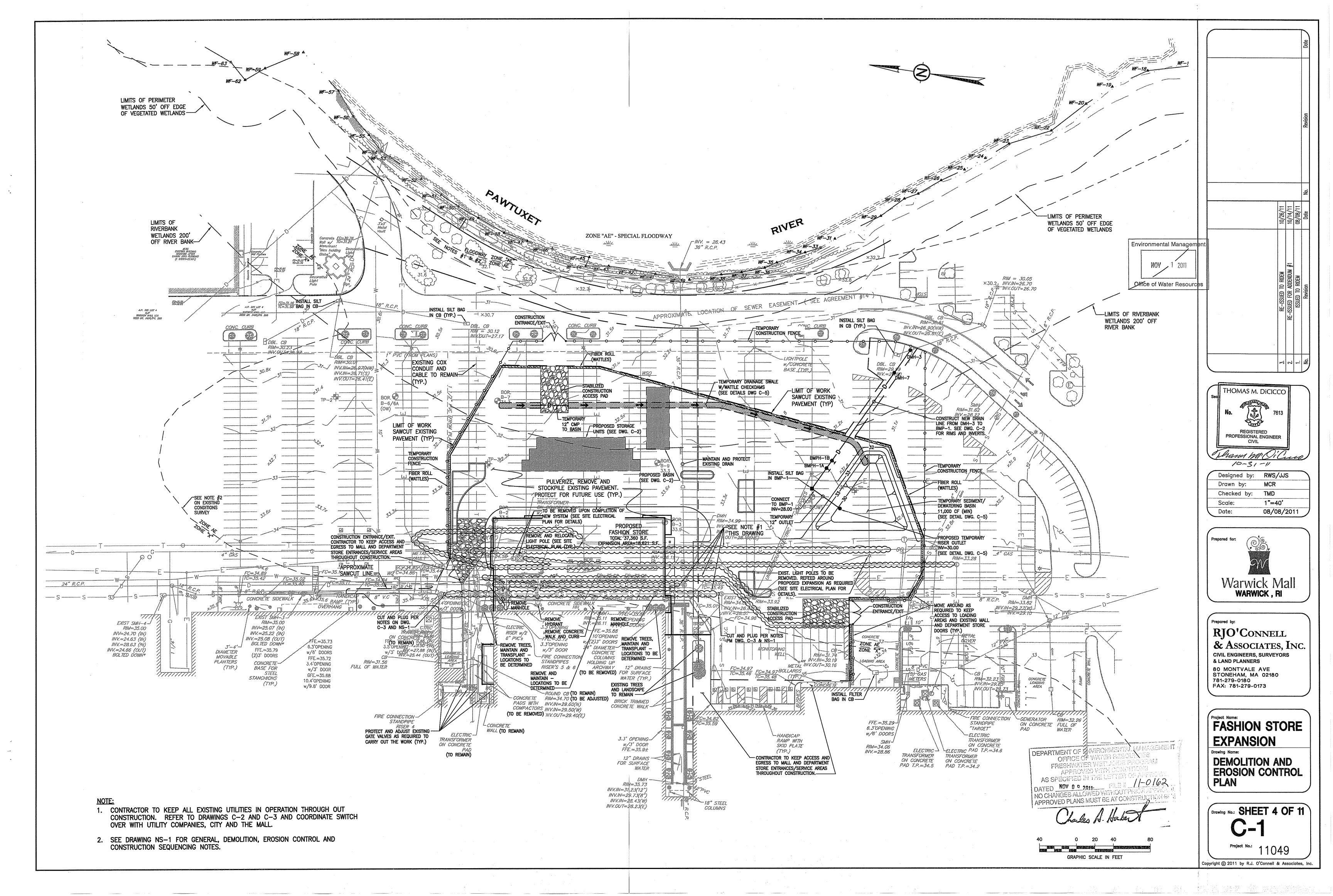
**CIVIL ENGINEERS, SURVEYORS** & LAND PLANNERS 80 MONTVALE AVE STONEHAM, MA 02180 781-279-0180 FAX: 781-279-0173

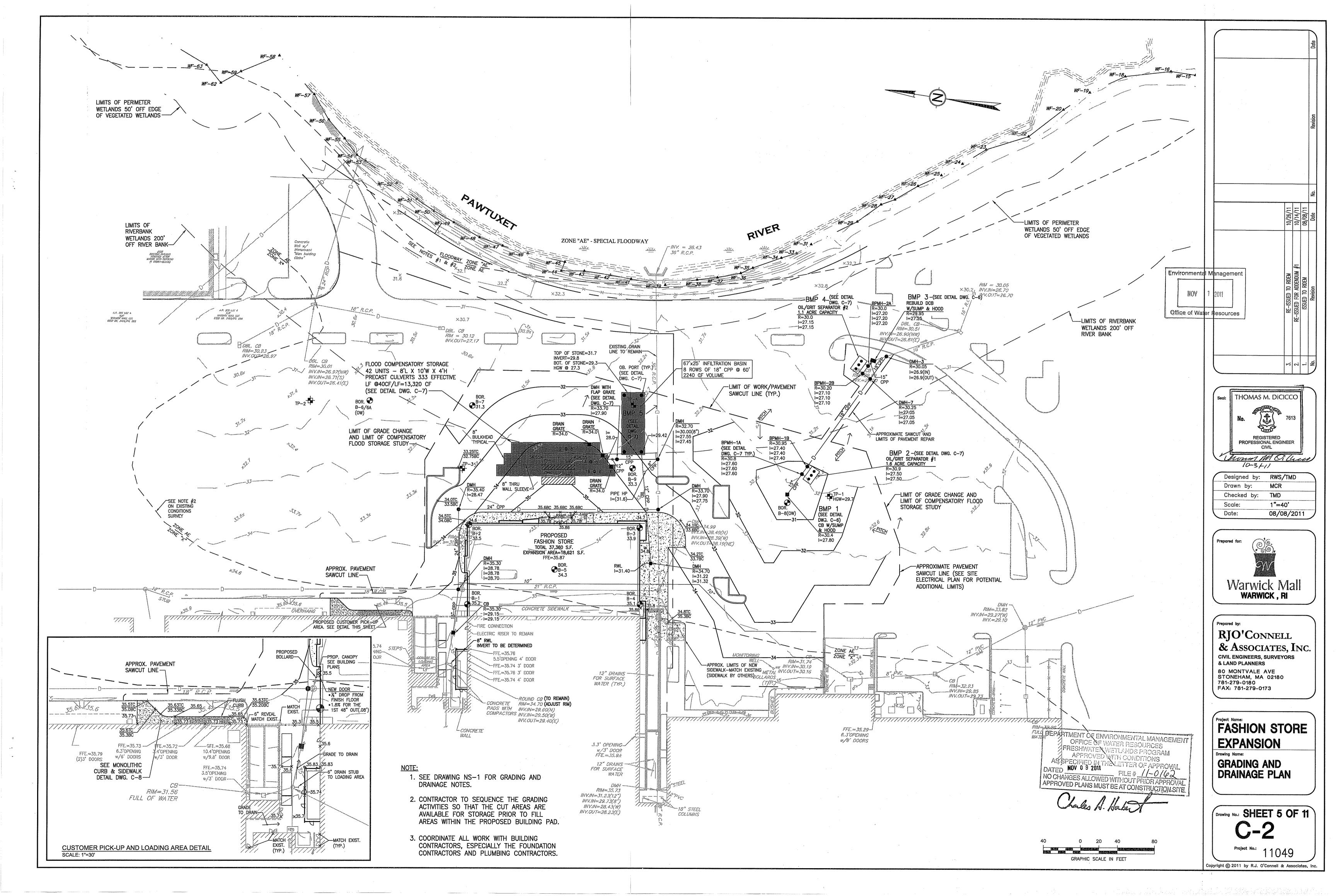
**FASHION STORE EXPANSION** 

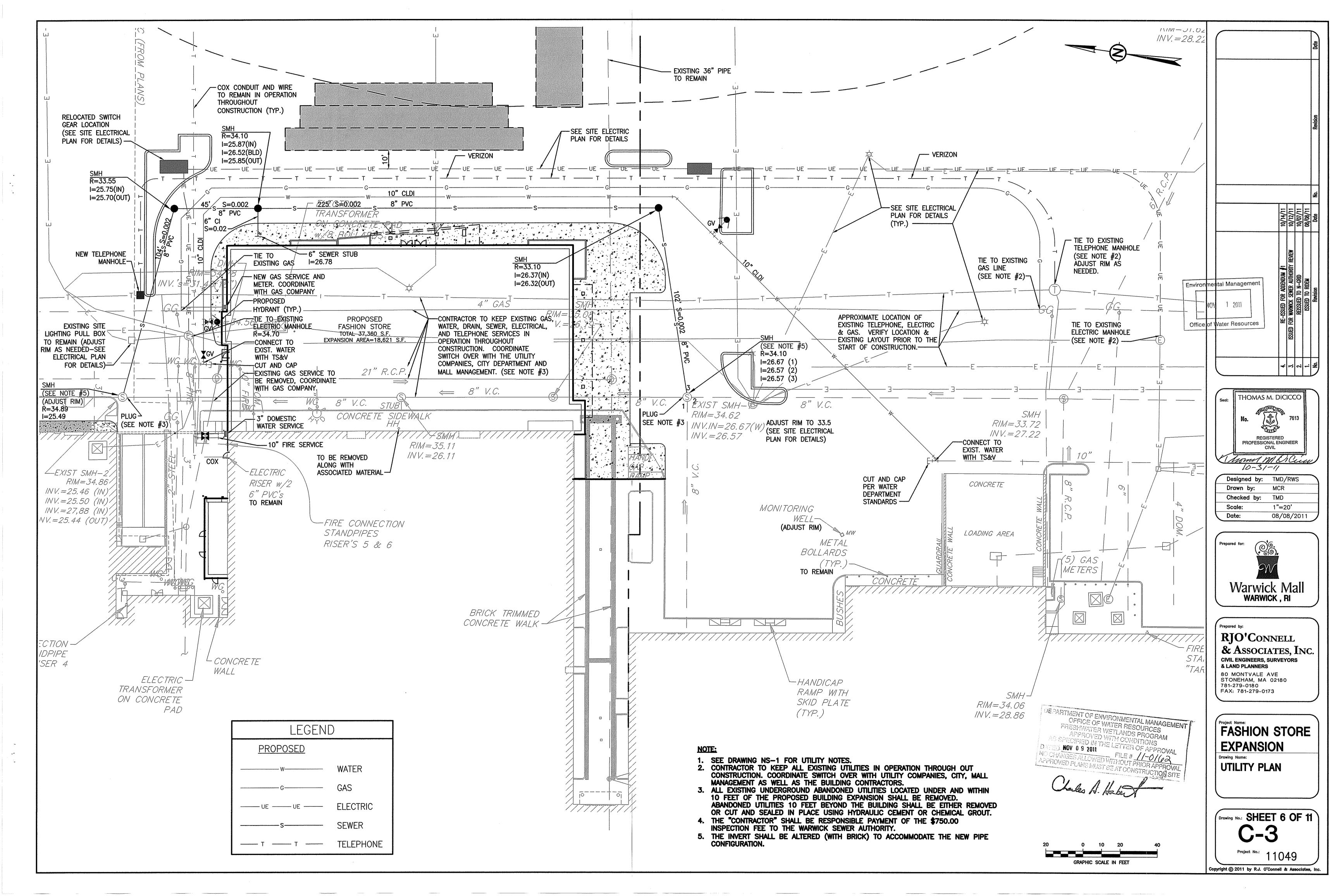
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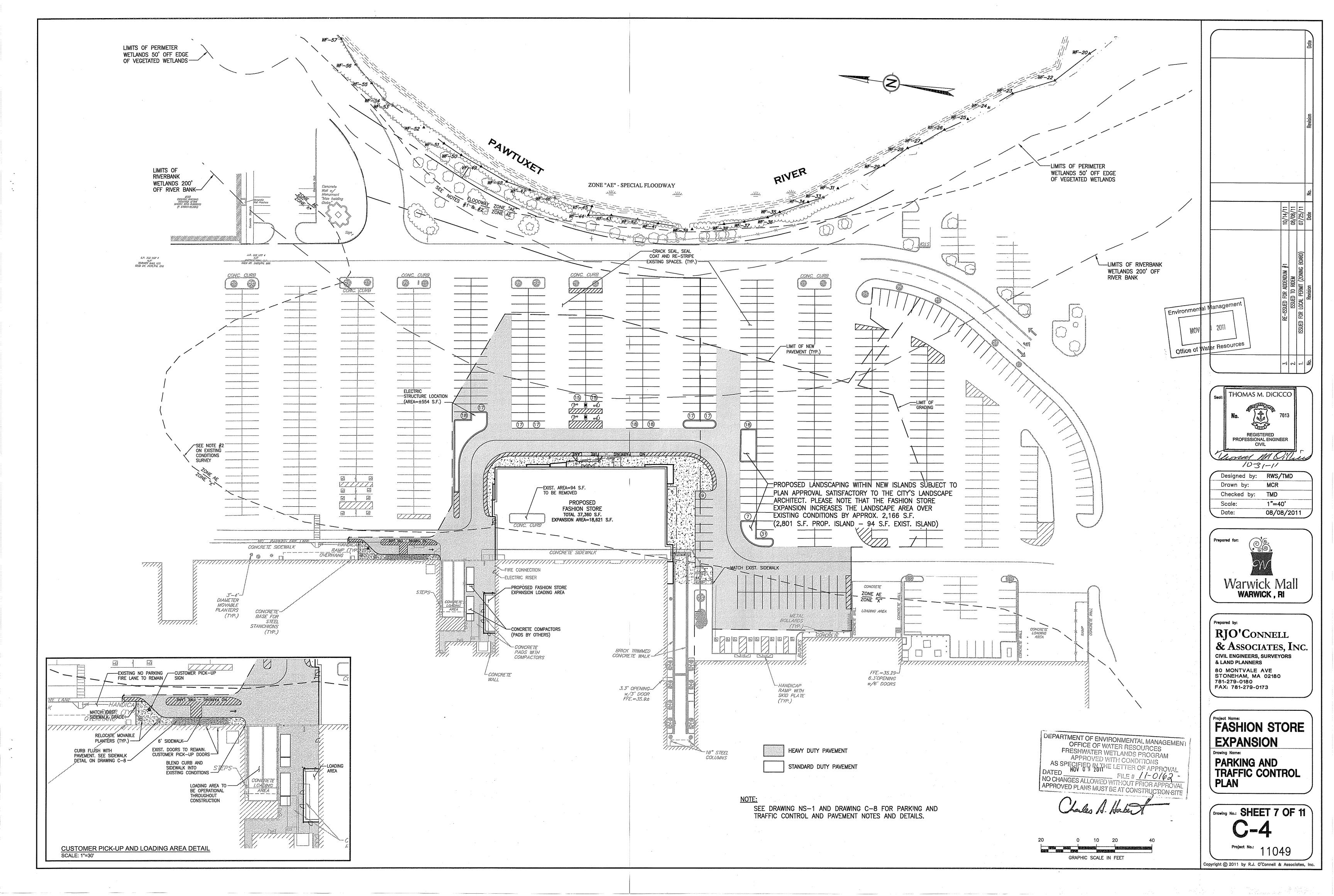
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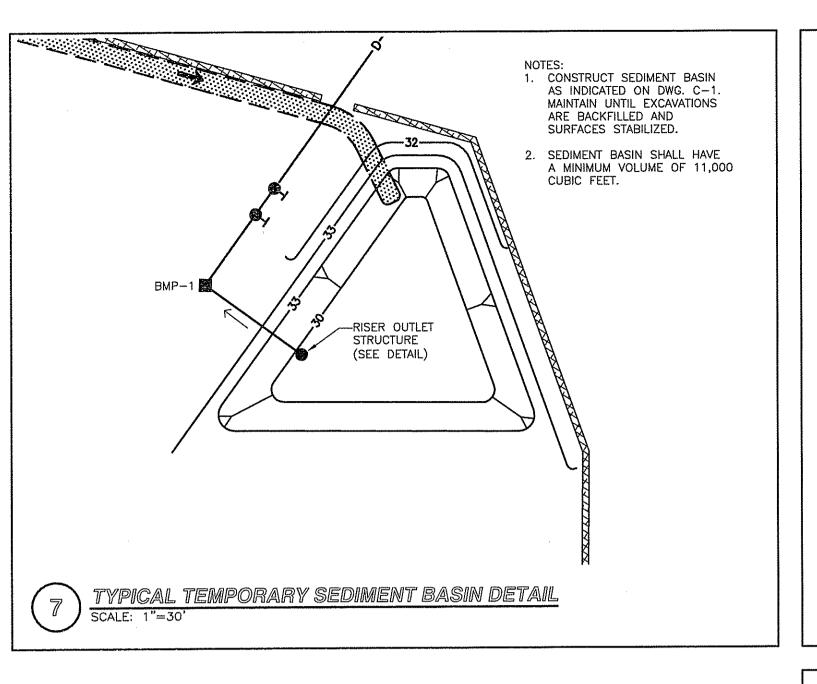
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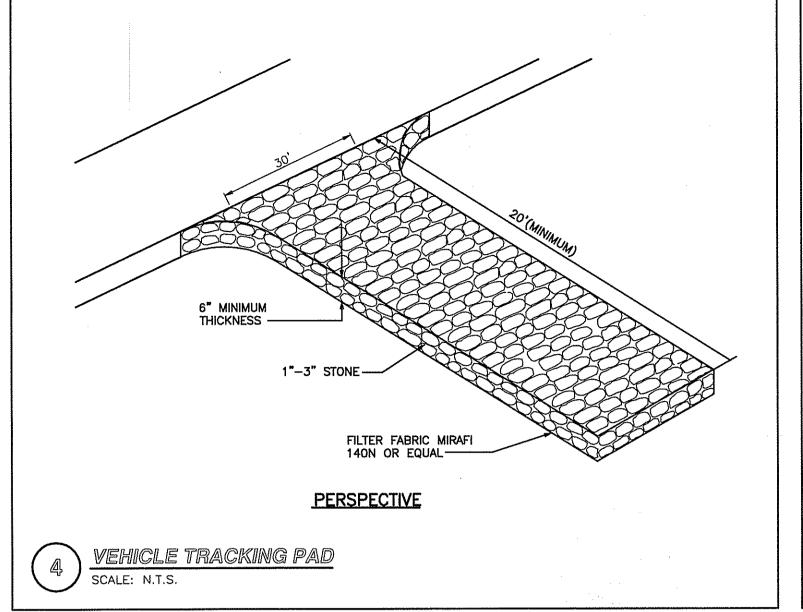


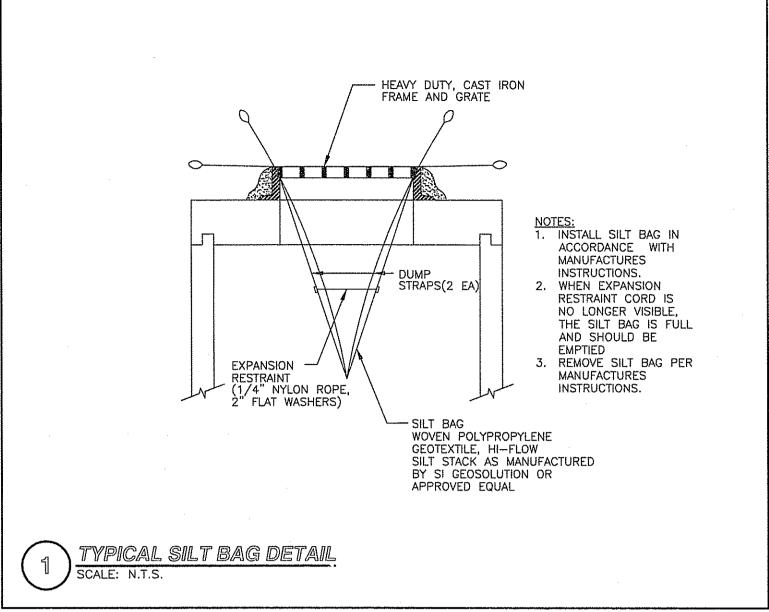


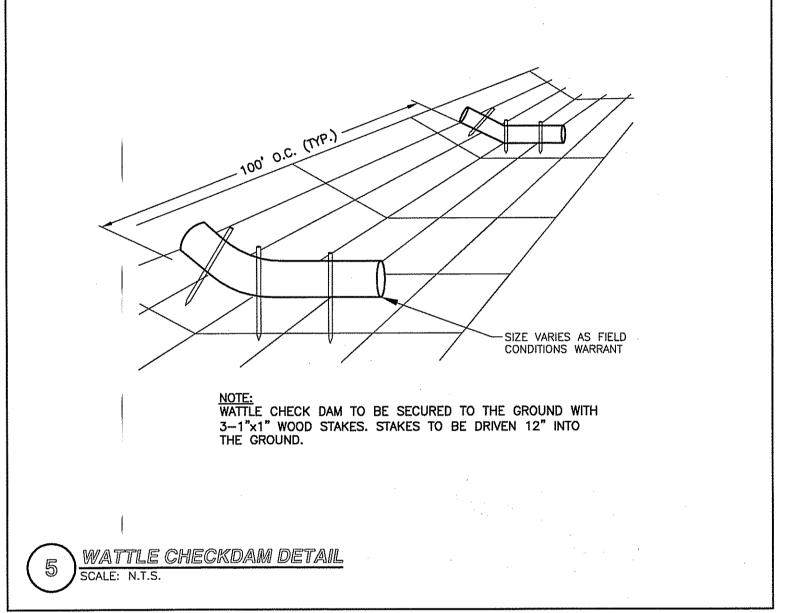


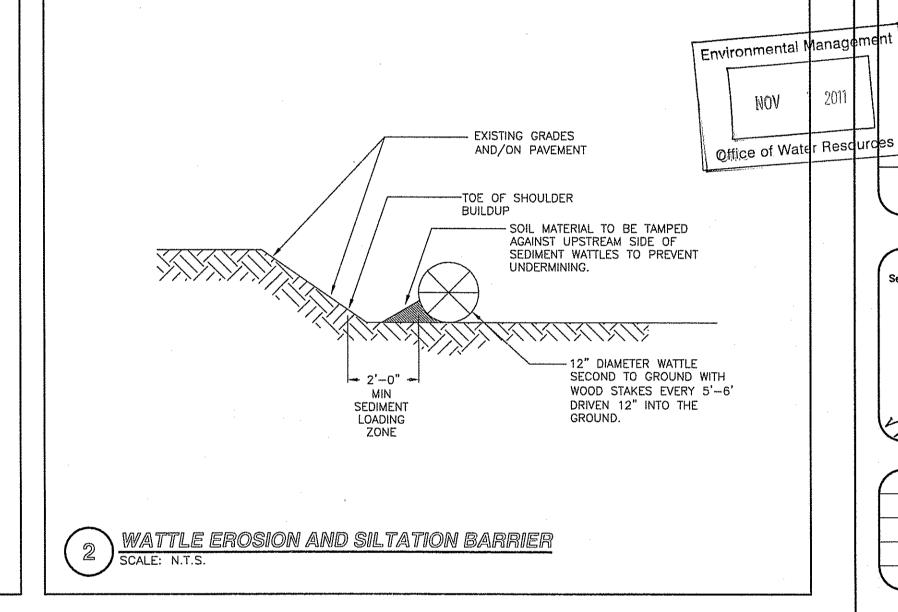


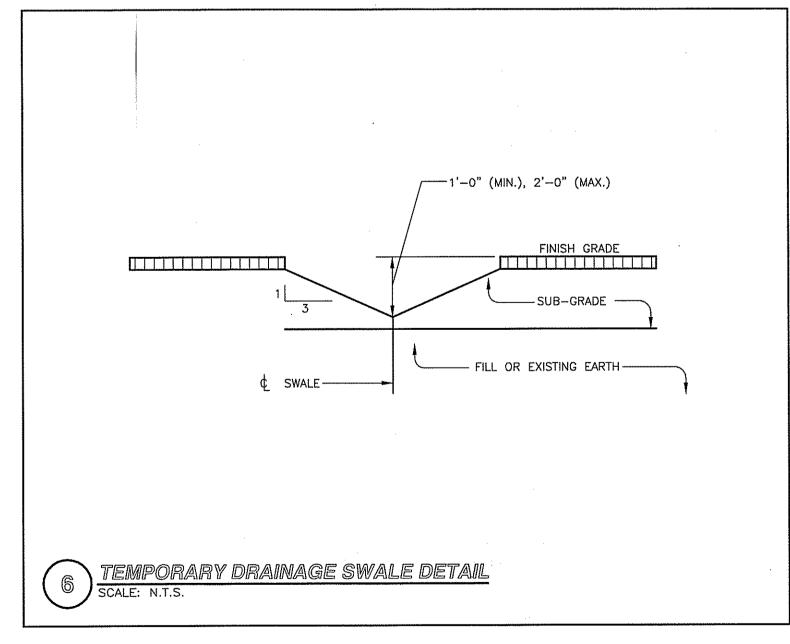


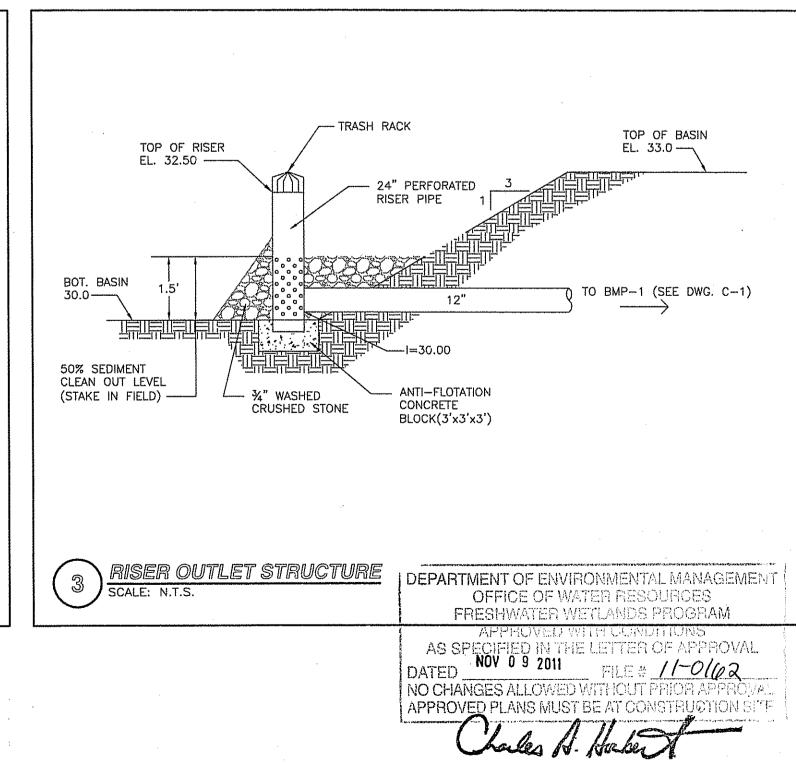


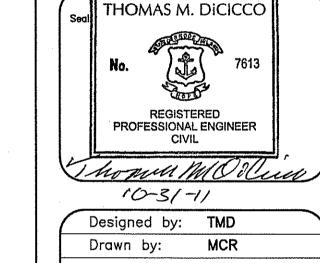




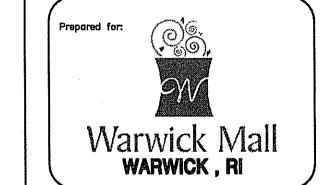








Designed by:	TMD
Drawn by:	MCR
Checked by:	TMD
Scale:	N.T.S.
Date:	08/08/2011



Prepared by:

RJO'CONNELL

& ASSOCIATES, INC.

CIVIL ENGINEERS, SURVEYORS

& LAND PLANNERS

80 MONTVALE AVE

STONEHAM, MA 02180

781-279-0180

FAX: 781-279-0173

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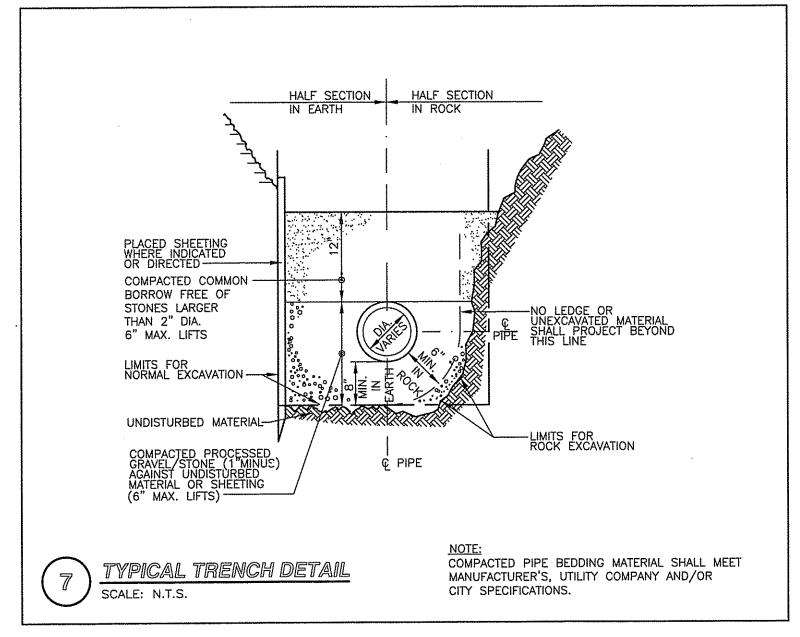
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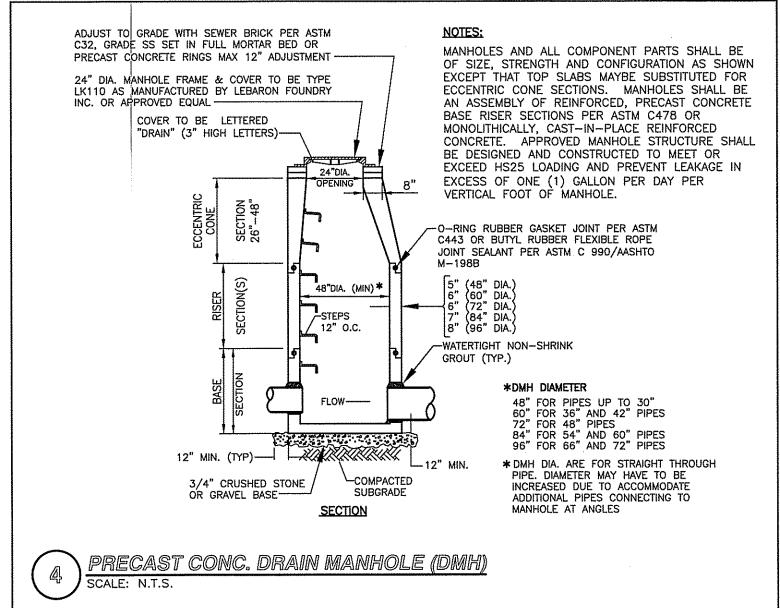
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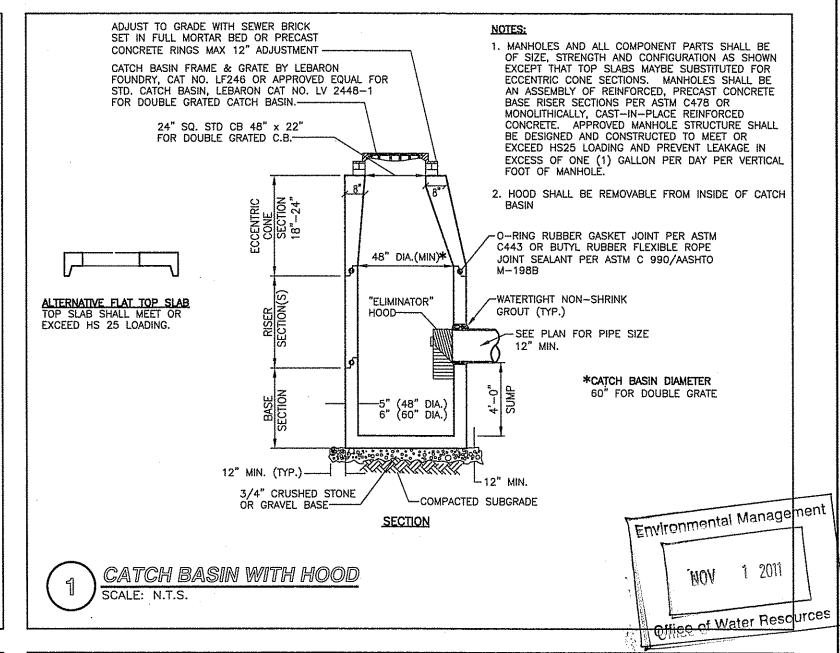
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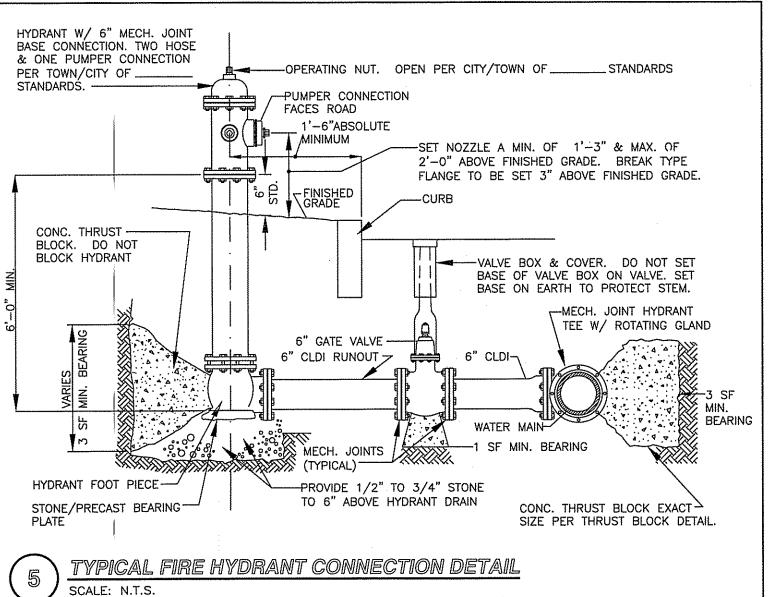
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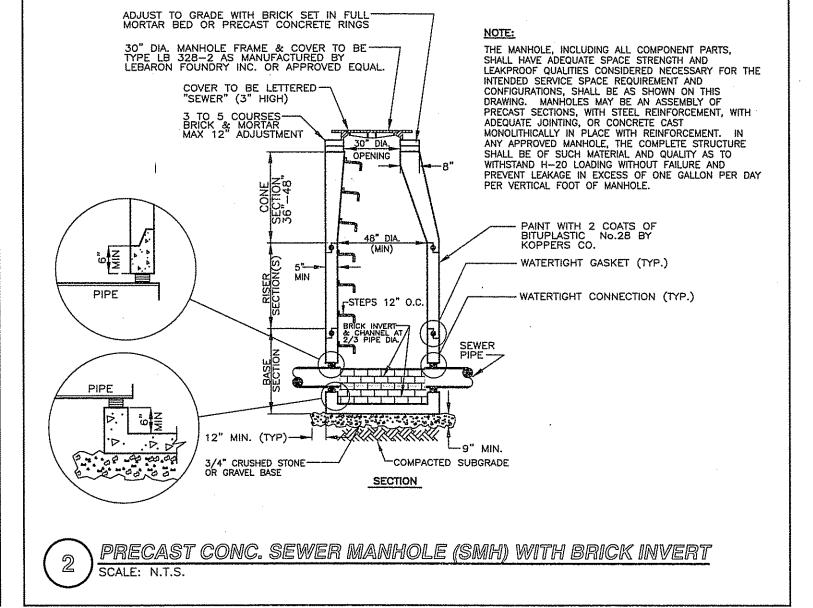
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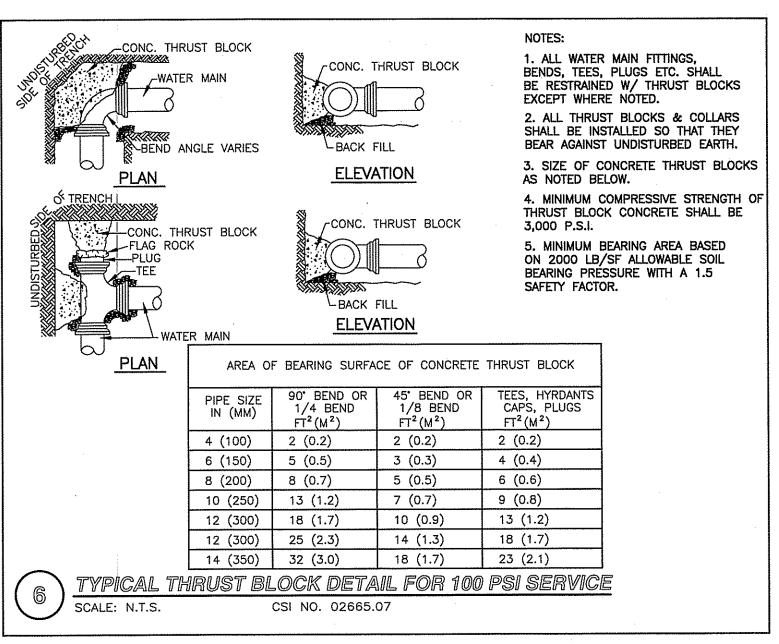


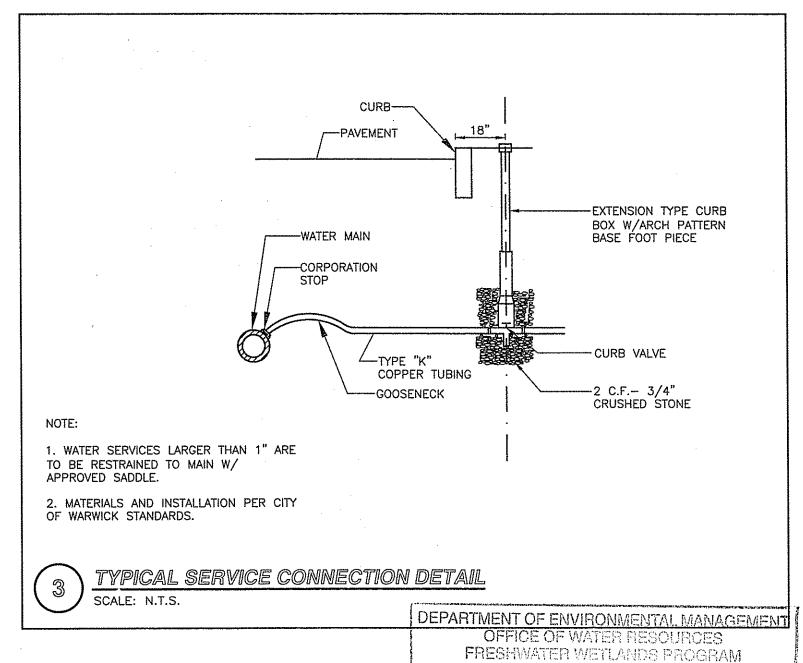




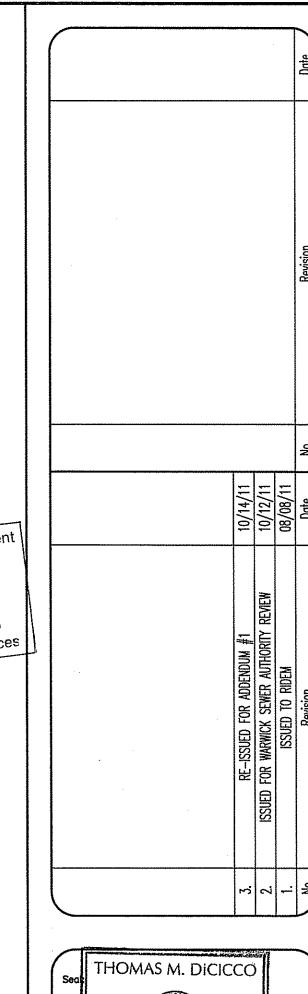


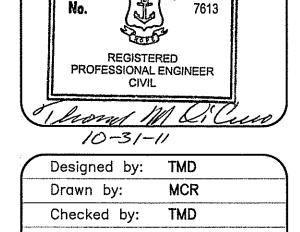


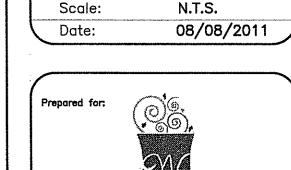




AS SPECIFIED 2010 THE LETTER OF APPROVAL FILE # 11-0162







Warwick Mall warwick, RI

Prepared by:

RJO'CONNELL

& ASSOCIATES, INC.

CIVIL ENGINEERS, SURVEYORS
& LAND PLANNERS

80 MONTVALE AVE

STONEHAM, MA 02180

781-279-0180

FAX: 781-279-0173

# FASHION STORE EXPANSION

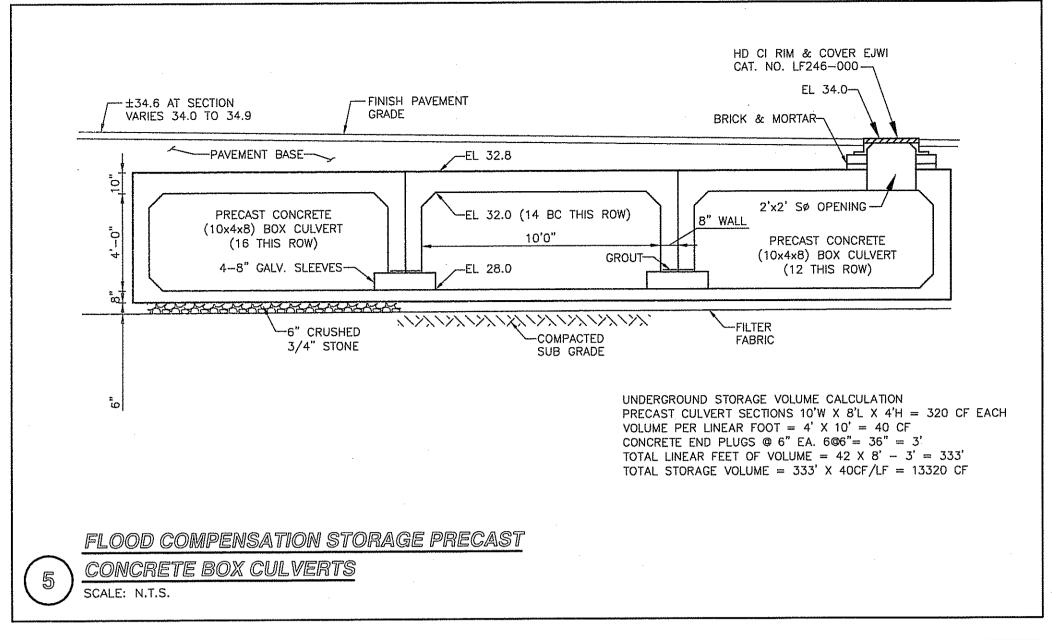
DRAINAGE AND UTILITY DETAILS

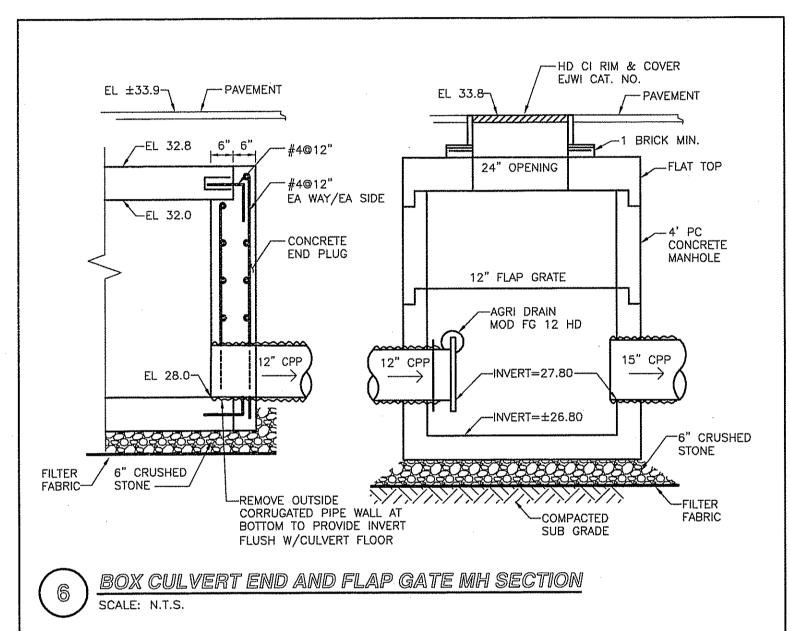
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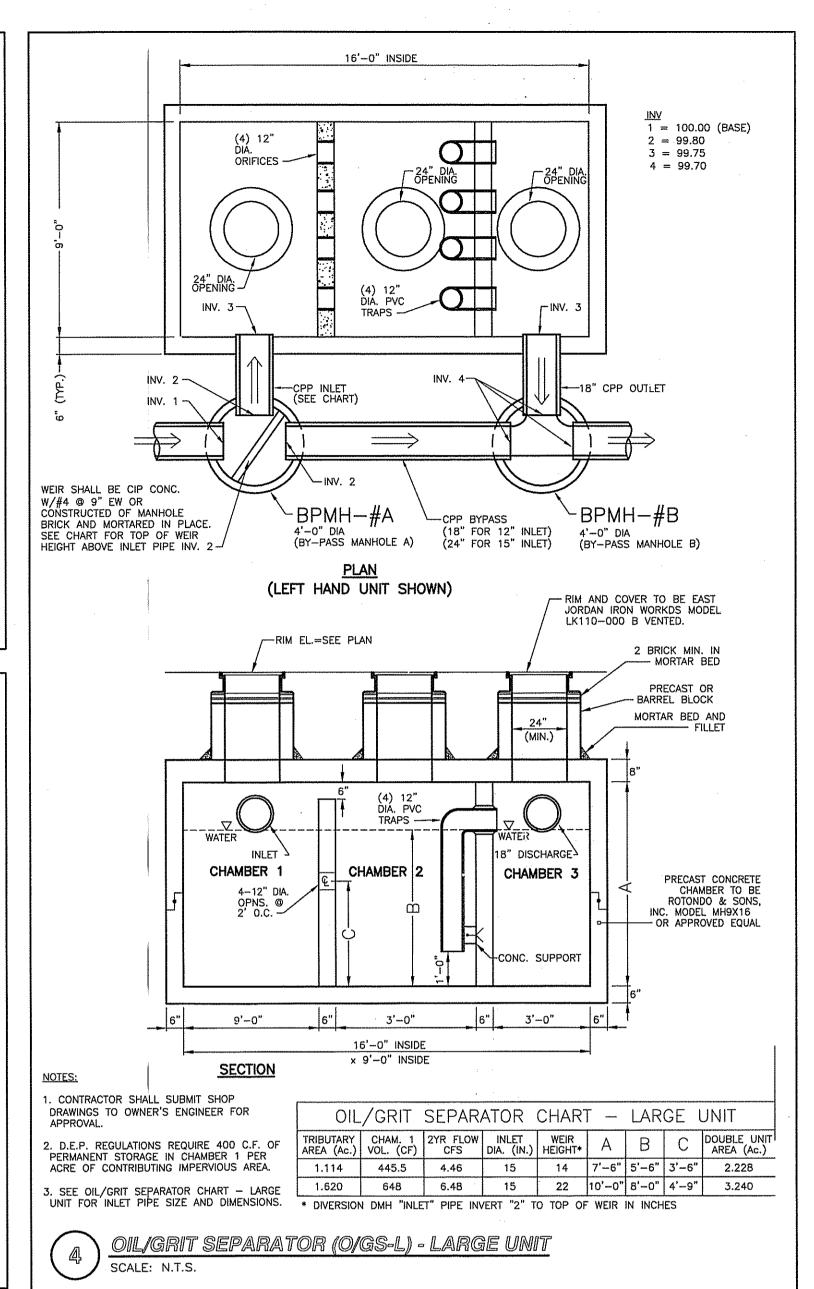
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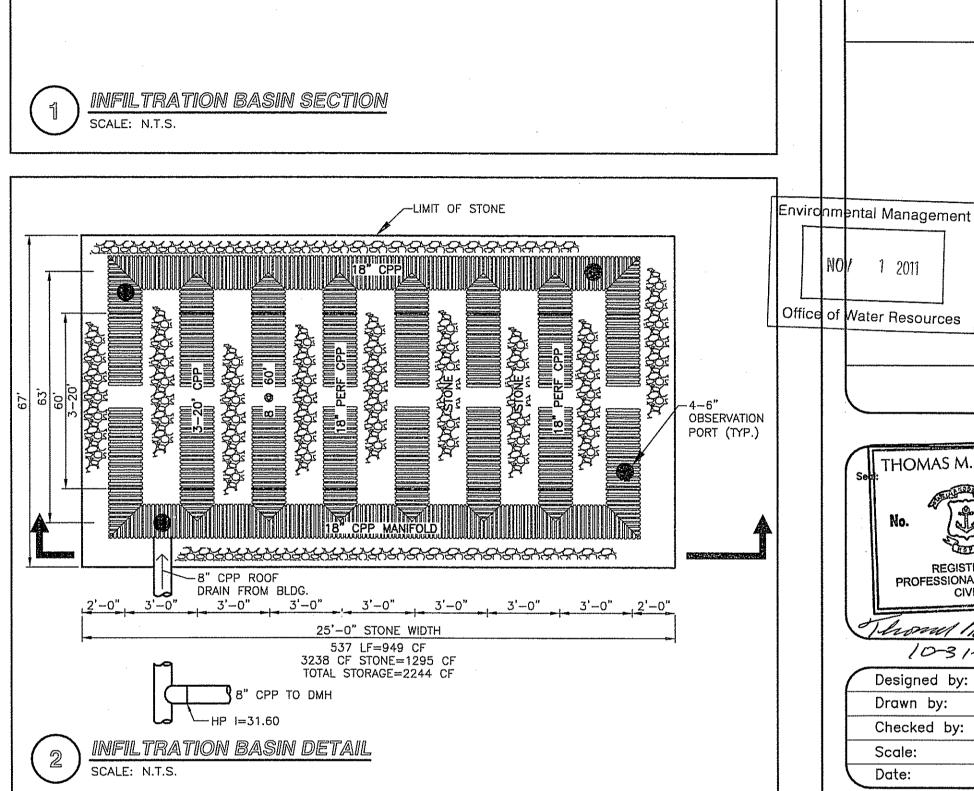
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OBSERVATION

___32.7(MIN)

TOS=31.7

-BOS=29.3

- FINISH PAVEMENT

GRADE

'-0", 3'-0" 3'-0" 3'-0" 3'-0" 3'-0" 3'-0" 3'-0"

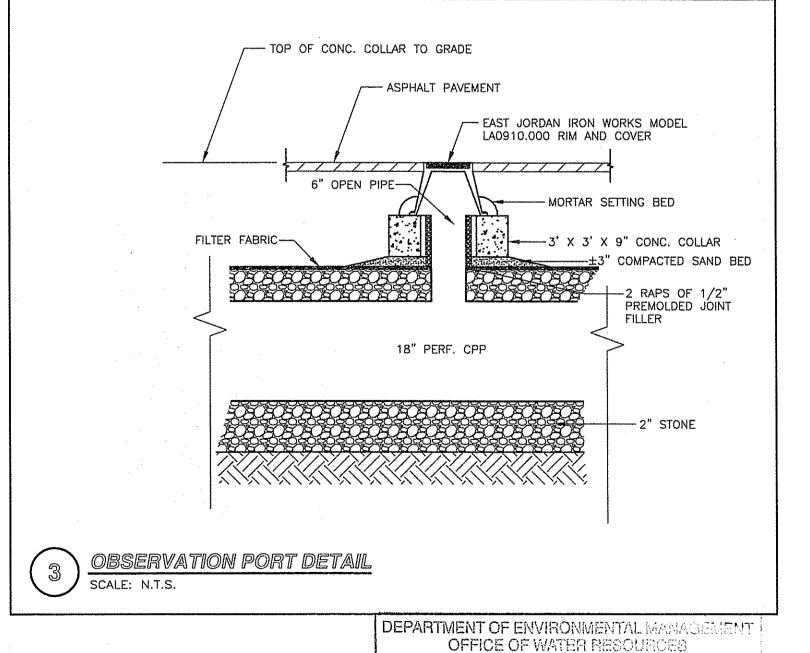
8-18" PERFORATED CPP AT 3'-0" O.C.

25'-0" STONE WIDTH

- 2" UNIFORM CRUSHED STONE

PAVEMENT

—33.4(MAX)



FRESHWATER WETLANDS PROGRAM APPROVED WITH CONDITIONS

AS SPECIFIED IN THE LETTER OF APPROVAL NOV 0 9 2011 FILE 0 //-0/03

NO CHANGES ALLOWED WITHOUT PRIOR APPR



THOMAS M. DICICCO

REGISTERED

PROFESSIONAL ENGINEER

CIVIL

TMD

N.T.S.

08/08/2011

Thomas MOR

10-31-11

Designed by: TMD

Drawn by:

Scale:

Date:

Checked by:

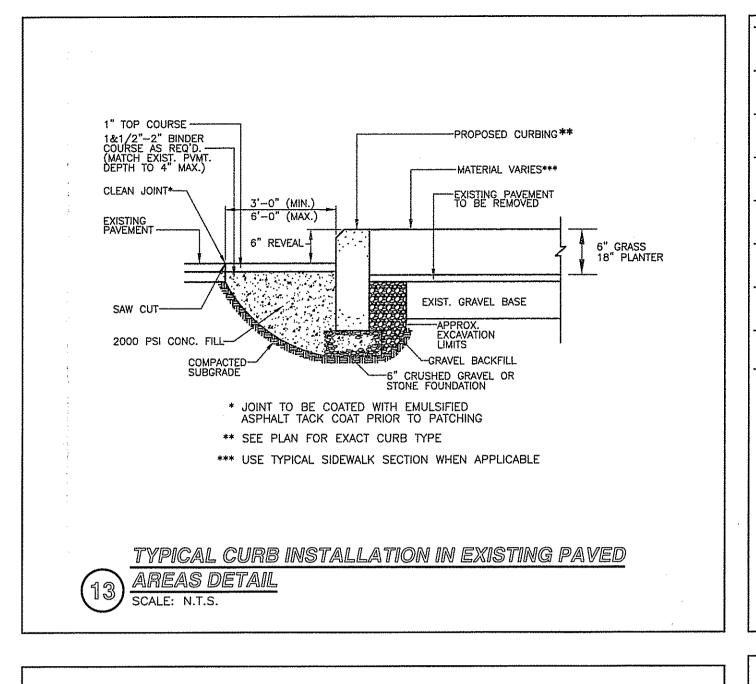
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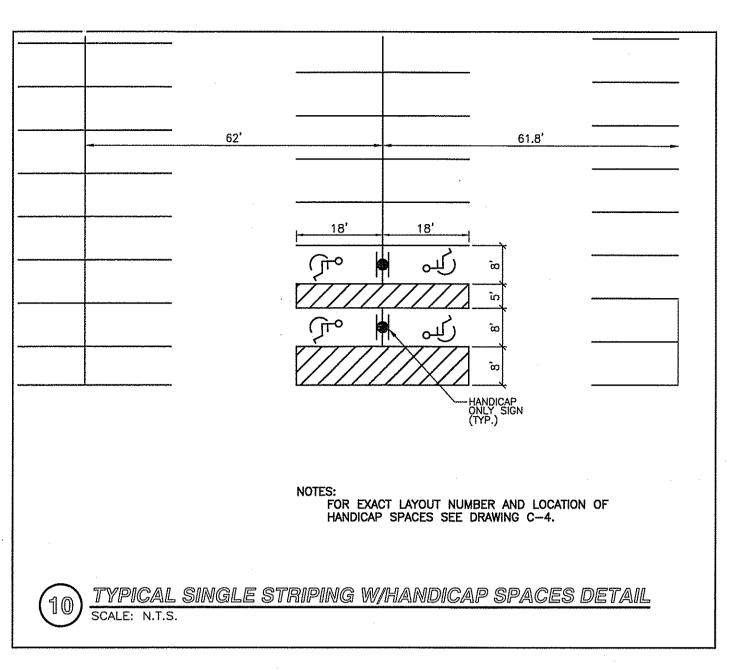
781-279-0180 FAX: 781-279-0173

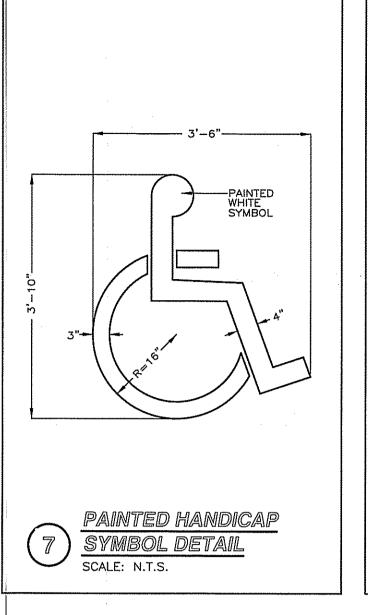
DRAINAGE AND UTILITY DETAILS II

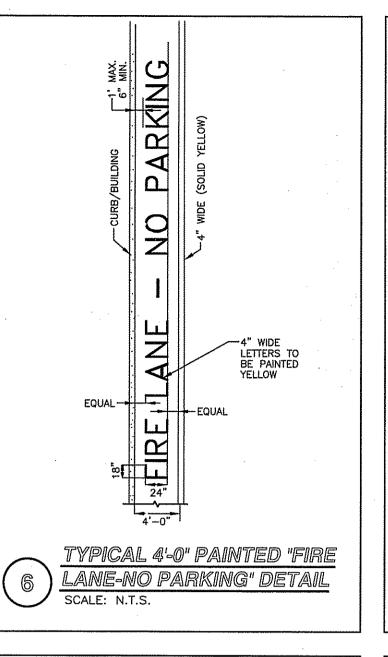
Drawing No.: SHEET 10 OF 11

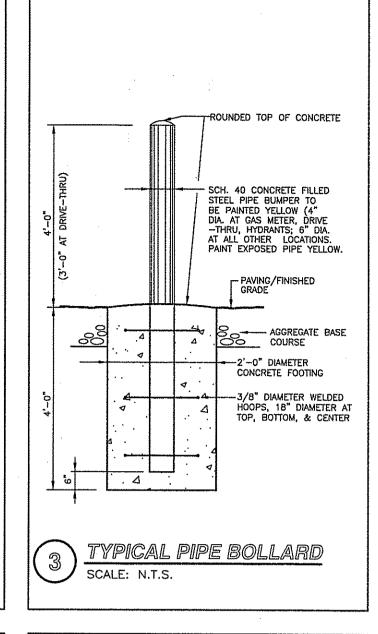
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-TRAFFIC SIGN

-U CHANNEL POST

FINISH GRADE

SIGN FOOTING

TYPICAL CHANNEL

TRAFFIC SIGNS

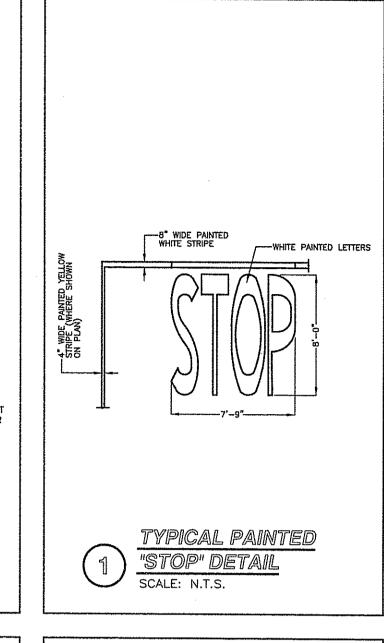
MOUNTING DETAIL FOR

---3'-0" X 18"ø CONCRETE

3000 PSI REFER TO

CONCRETE STRENGTH TO BE

SPECIFICATIONS FOR ADDITIONAL



TYPICAL MOUNTING

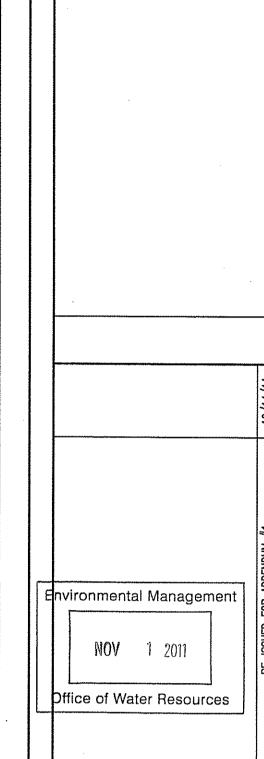
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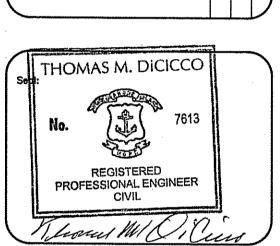
OFFICE OF WATER RESOURCES

APPROVED WITH CONDITIONS

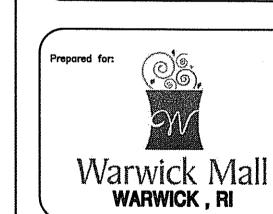
APPROVED WHITE LETTER OF APPROVAL PECIFIED IN THE LETTER OF APPROVAL FILE # /1-0/62

DETAIL FOR HANDICAP





Rever M	16 Cins								
10-31211									
Designed by:	TMD	١							
Drawn by:	MCR	١							
Checked by:	TMD	1							
Scale:	N.T.S.	1							
Date:	08/08/2011	1							



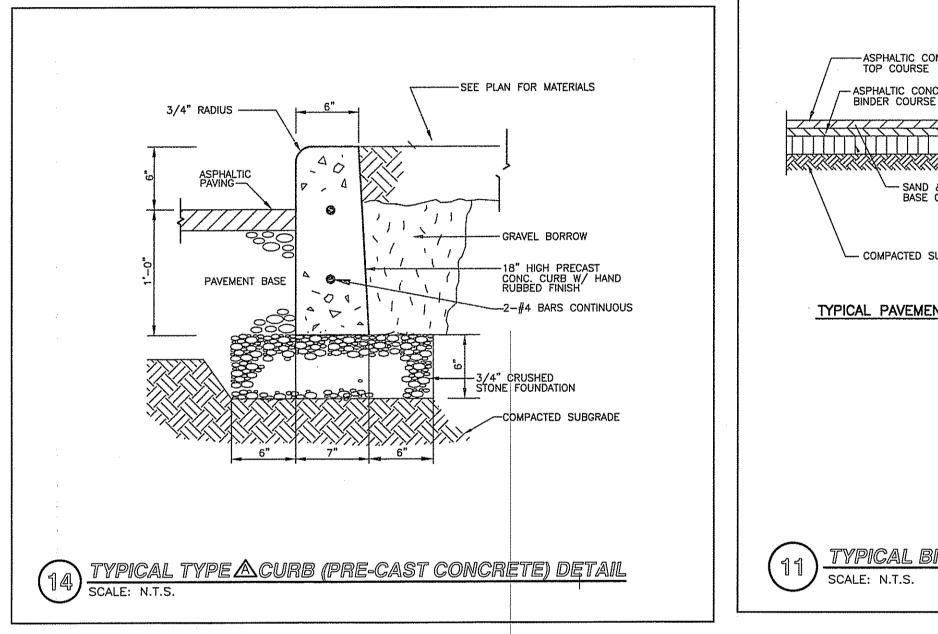




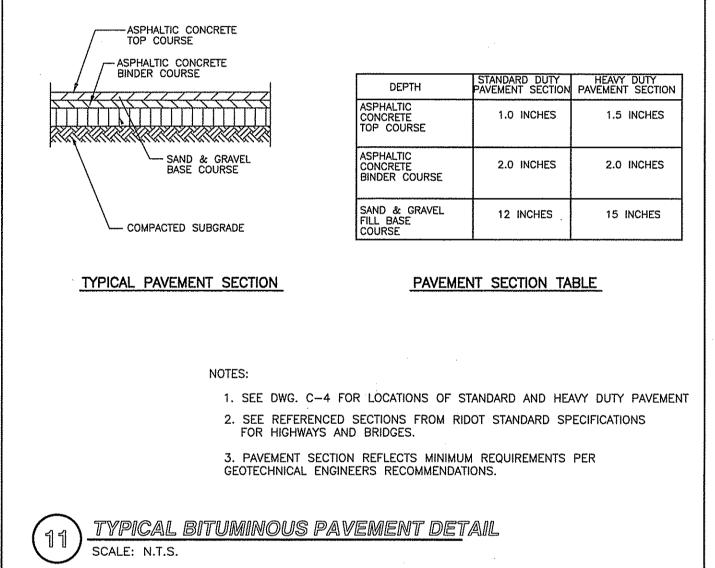
**PARKING & TRAFFIC CONTROL DETAILS** 

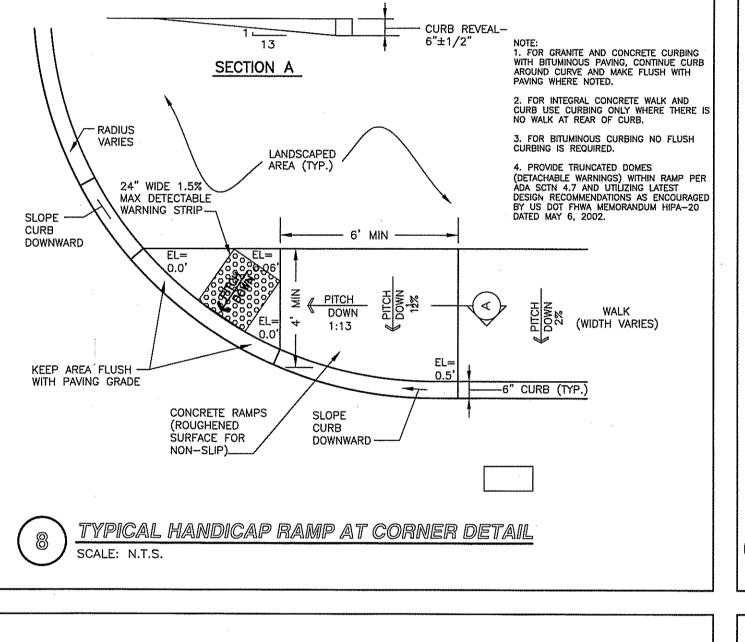
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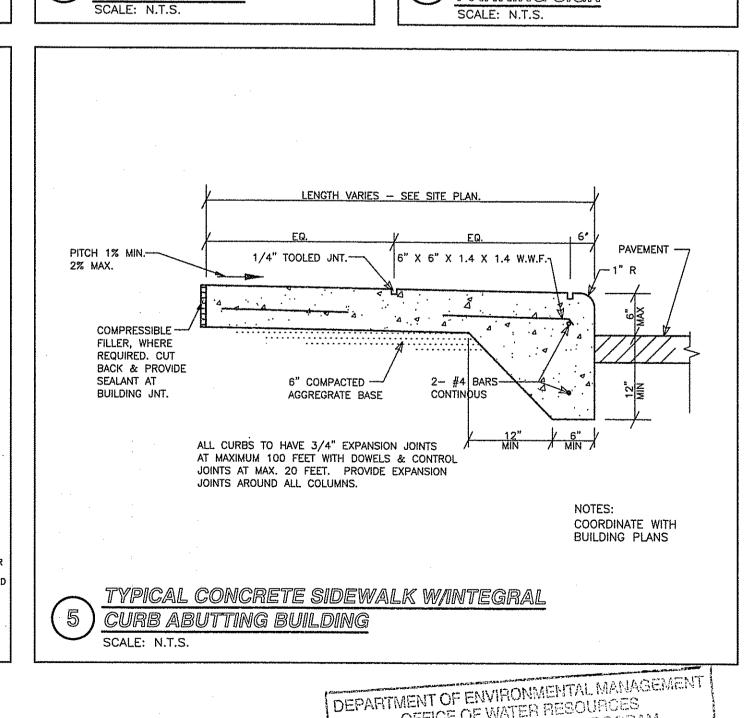
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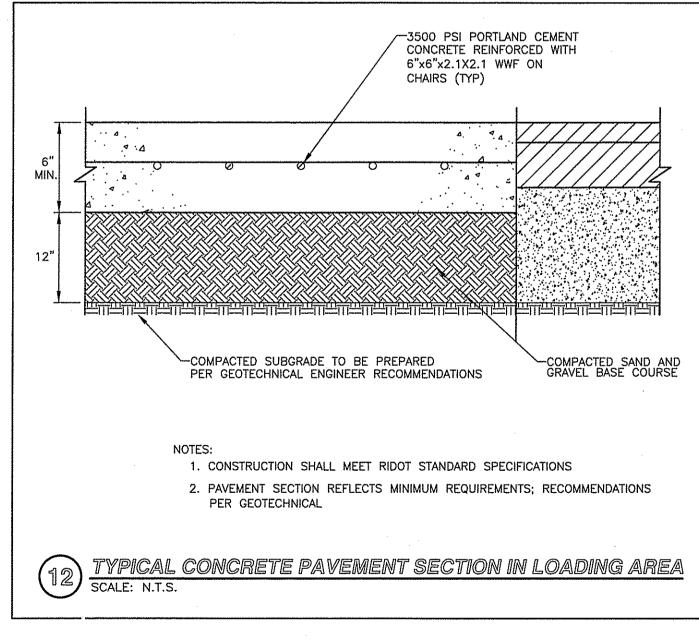


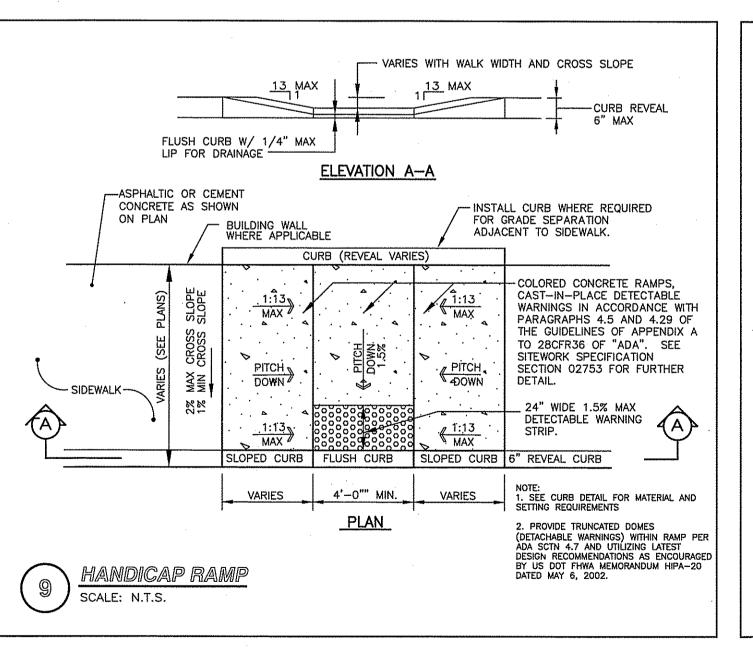
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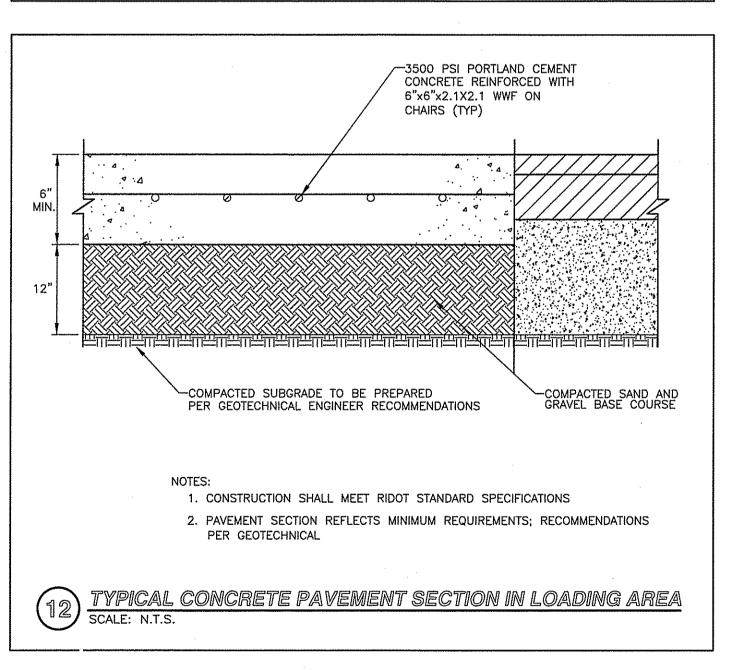


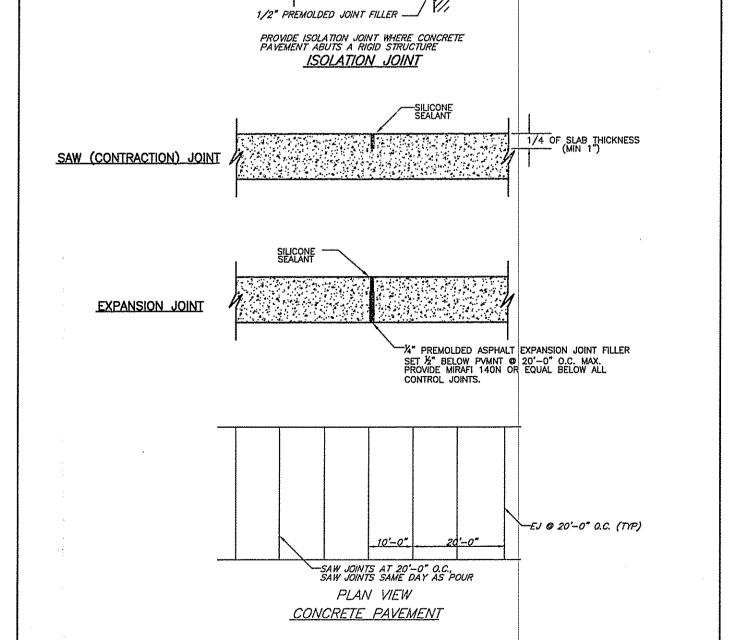












(15) CONCRE SCALE: N.T.S.

CONCRETE PAVING JOINT DETAILS