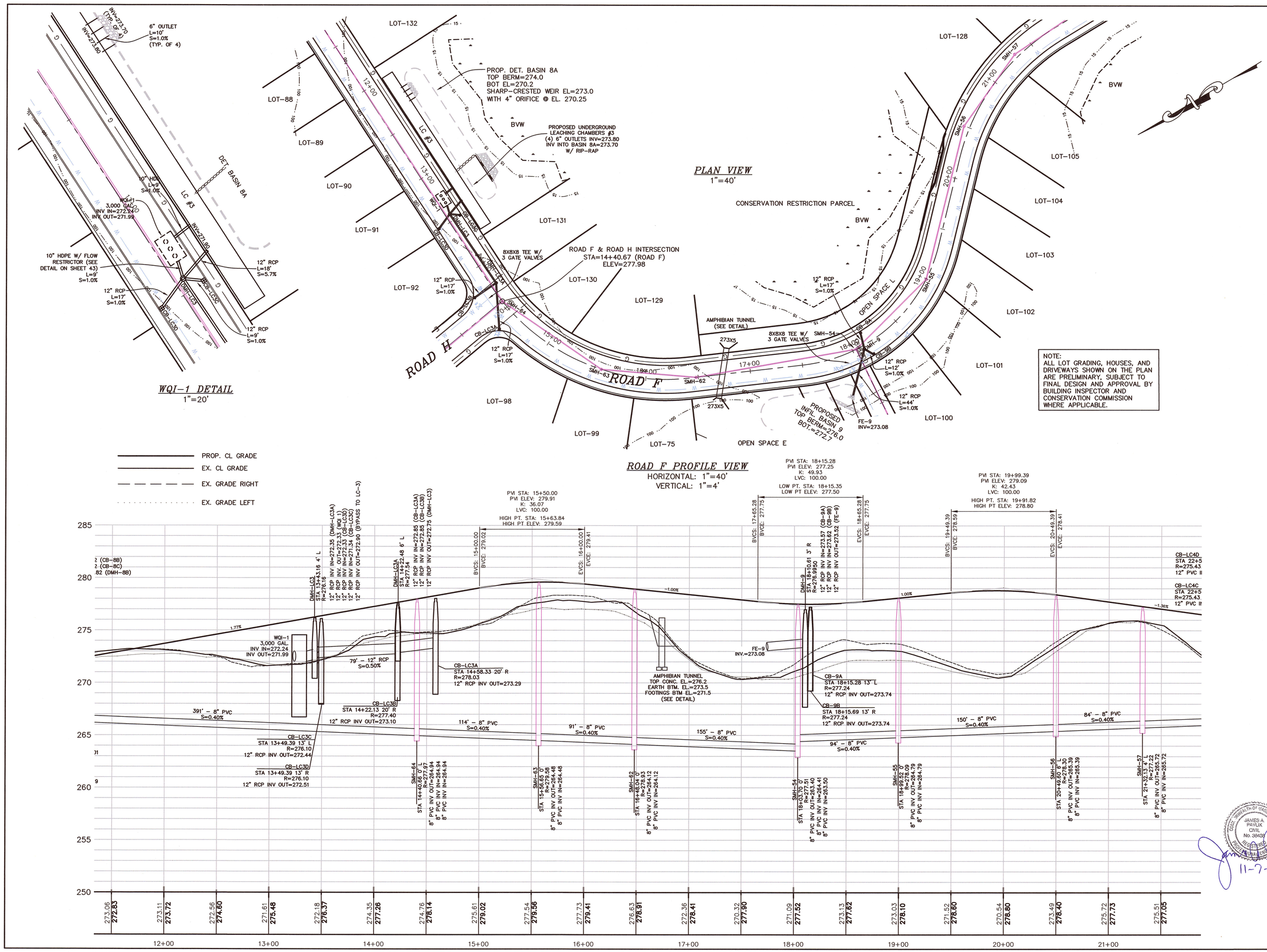

NOTE:
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REVISIONS

NO.	DATE	DESCRIPTION

OWNERS

WICKETT DEVELOPMENT COMPANY, INC.
38746 CLINTON AVENUE DADE CITY, FL 33525
DD. BK. 13071, PAGE 203
PL. NO. 229 OF 2003, PL. BK. 507 (PARCEL A)
ASSESSORS PARCEL ID 8-016
DD. BK. 22145, PG. 113 (LOTS 8, 10, 12 & 14)
DD. BK. 22145, PG. 114 (LOTS 7, 9, 11, 13 & 15)
PLAN NO. 80 & 81 OF 1967, PL. BK. 222
ASSESSORS PARCEL ID 9-058

HENRY L. WICKETT
38746 CLINTON AVENUE, DADE CITY, FL 33525
DD. BK. 9742, PG. 202
ASSESSORS PARCEL ID 8-019
DD. BK. 32754, PAGE 363
ASSESSORS PARCEL ID 8-020

HENRY L. WICKETT & HENRY L. WICKETT JR.
38746 CLINTON AVENUE DADE CITY, FL 33525
DD. BK. 6607, PG. 537
PORTION OF PL. NO. 97 OF 2012, PL. BK. 615
ASSESSORS PARCEL ID 14-005

NOVUS HOMES LLC
135 MAIN STREET, SUITE 5, MEDWAY MA, 02053
DD. BK. 32449, PG. 424
PL. NO. 666-C OF 9 OF 1972, PL. BK. 232 (LOT 214)
A PORTION OF ASSESSORS PARCEL ID 14-020

TIMBER CREST ESTATES LLC
C/O MOUNIR TAYARA
135 MAIN STREET, SUITE 5, MEDWAY MA 02053
DD. BK. 34358, PG. 284
PL. NO. 1103 OF 1950, PL. BK. 2945, PG. 230
ASSESSORS PARCEL ID 9-051
DD. BK. 32841, PG. 560
PL. NO. 75 OF 2015, PL. BK. 636
ASSESSORS PARCEL ID 15-001

SUSAN J. PAVLIK, NANCY P. RUSSELL, JAMES A. PAVLIK & THOMAS F. PAVLIK
19 CENTER STREET MEDWAY, MA 02053
DD. BK. 24701, PG. 7
PL. NO. 388 OF 1995, PL. BK. 431
ASSESSORS PARCEL ID 15-019

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11 OHLSON CIRCLE, MEDWAY, MA 02053
DD. BK. 29614, PG. 283
PL. NO. 666-A OF 9 OF 1972, PL. BK. 232 (LOT 213)
A PORTION OF ASSESSORS PARCEL ID 14-021

APPLICANT

TIMBER CREST ESTATES LLC
C/O MOUNIR TAYARA
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MEDWAY MA, 02053

FINAL SUBMITTAL PLAN & PROFILE ROAD F EAST SIDE SUBDIVISION "TIMBER CREST ESTATES" OFF WINTHROP STREET, OHLSON CIRCLE, HOLLISTON STREET, FAIRWAY LANE & FERN PATH IN MEDWAY MASSACHUSETTS

COMMONWEALTH OF MASSACHUSETTS
JAMES A. PAVLIK
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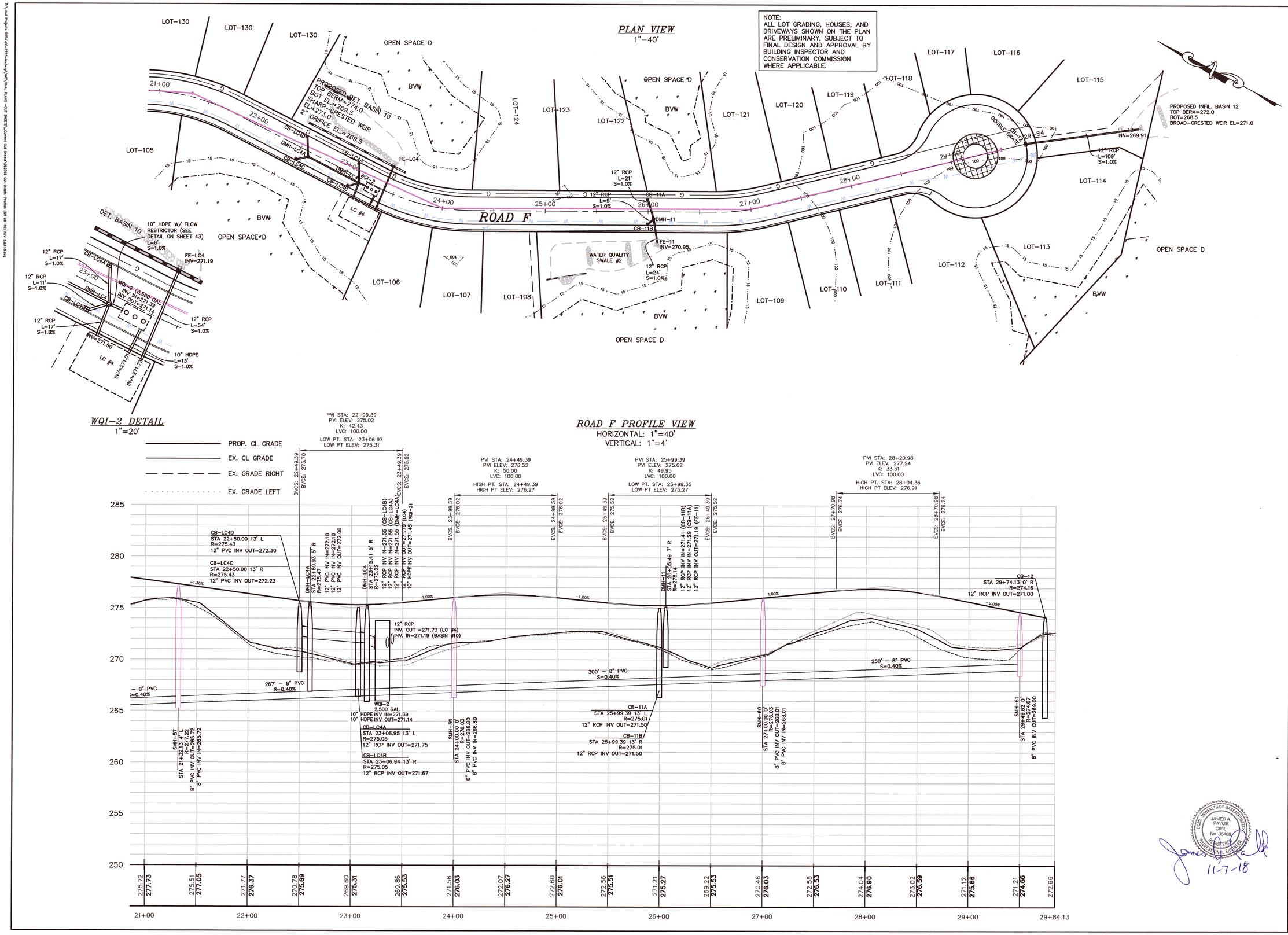
FAX: (508)-947-8873
www.outback-eng.com

DATE: NOVEMBER 6, 2018

DRAWN BY: CJV	CHECKED BY: JAP
SCALE: 1"=40'	SHEET 34 OF 50

0' 40' 80' 120'

OE-2765



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FINAL SUBMITTAL PLAN & PROFILE ROAD F EAST SIDE SUBDIVISION "TIMBER CREST ESTATES" OFF WINTHROP STREET, OHLSON CIRCLE, HOLLISTON STREET, FAIRWAY LANE & FERN PATH IN MEDWAY MASSACHUSETTS

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COMMONWEALTH OF MASSACHUSETTS
JAMES A. PAVLIK
CIVIL
No. 38438
REGISTERED PROFESSIONAL ENGINEER

11-7-18

DATE: NOVEMBER 6, 2018

DRAWN BY: CJV	CHECKED BY: JAP
SCALE: 1"=40'	SHEET 35 OF 50

0' 40' 80' 120'

OE-2765

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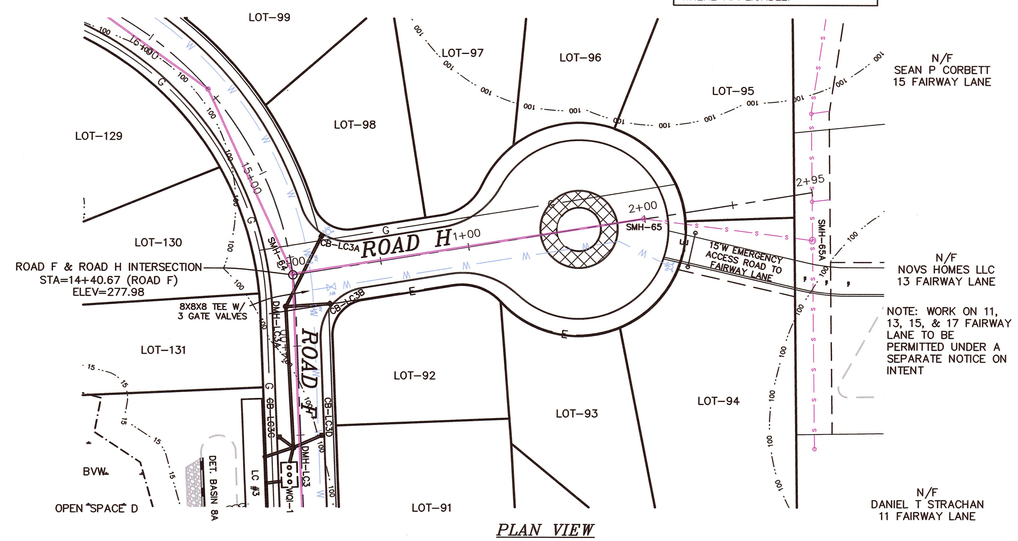
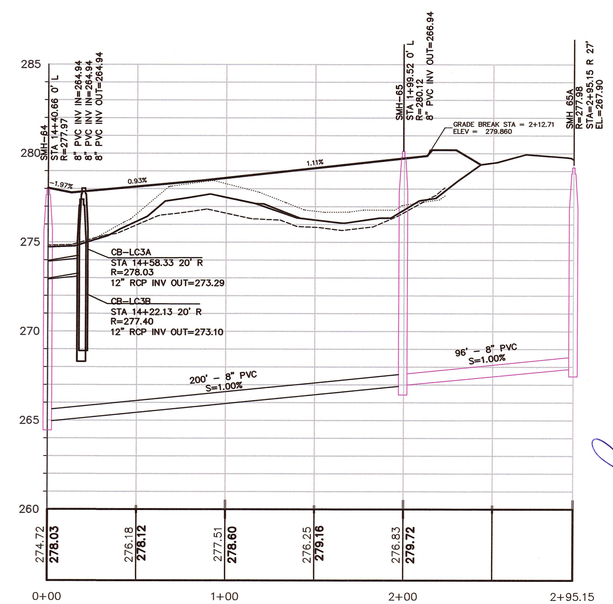


PLAN VIEW
1"=40'

PROP. CL GRADE
EX. CL GRADE
EX. GRADE RIGHT
EX. GRADE LEFT

ROAD H PROFILE VIEW
HORIZONTAL: 1"=40'
VERTICAL: 1"=4'



COMMONWEALTH OF MASSACHUSETTS
JAMES A. PAVLIK
CIVIL
No. 38498
REGISTERED PROFESSIONAL ENGINEER
11-7-18

REVISIONS

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DD. BK. 32754, PAGE 363
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APPLICANT

TIMBER CREST ESTATES LLC
C/O MOUNIR TAYARA
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MEDWAY MA, 02053

FINAL SUBMITTAL PLAN & PROFILE ROAD G & H EAST SIDE SUBDIVISION "TIMBER CREST ESTATES" OFF WINTHROP STREET, OHLSON CIRCLE, HOLLISTON STREET, FAIRWAY LANE & FERN PATH IN MEDWAY MASSACHUSETTS

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TEL: (508)-946-9231
FAX: (508)-947-8873
www.outback-eng.com

DATE: NOVEMBER 6, 2018

DRAWN BY: CJV	CHECKED BY: JAP
SCALE: 1"=40'	SHEET 36 OF 50

0' 40' 80' 120'

OE-2765

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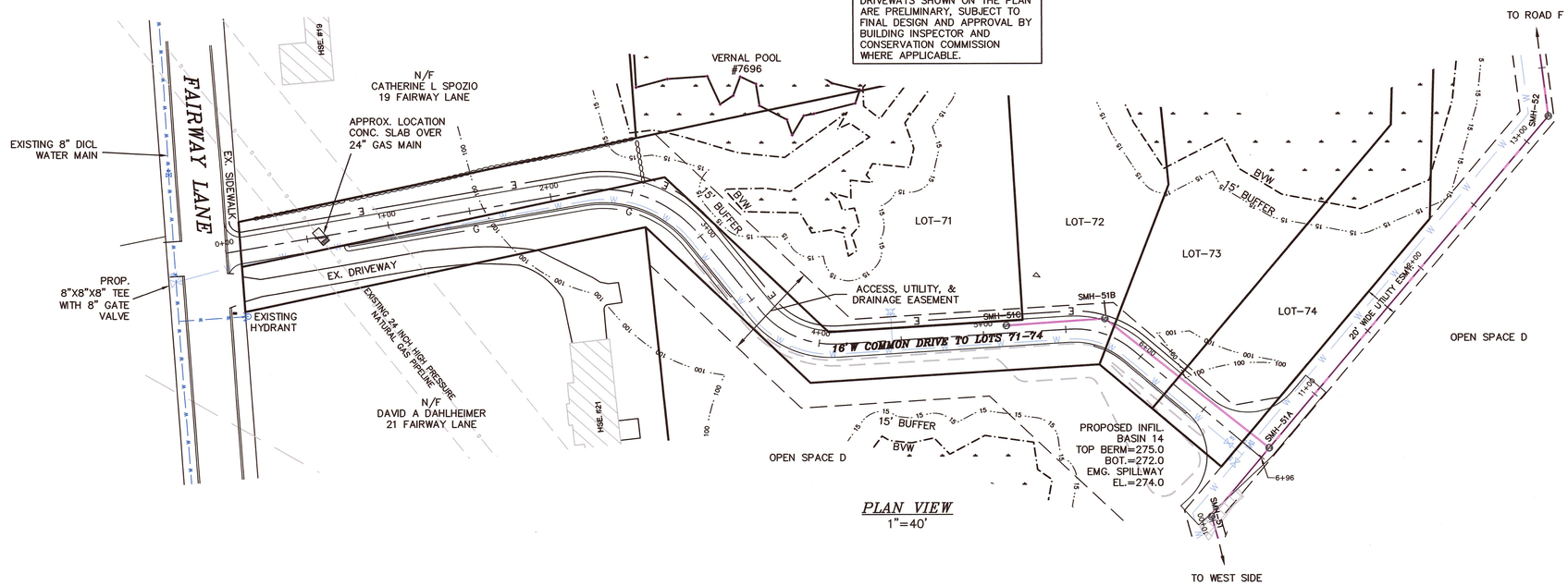
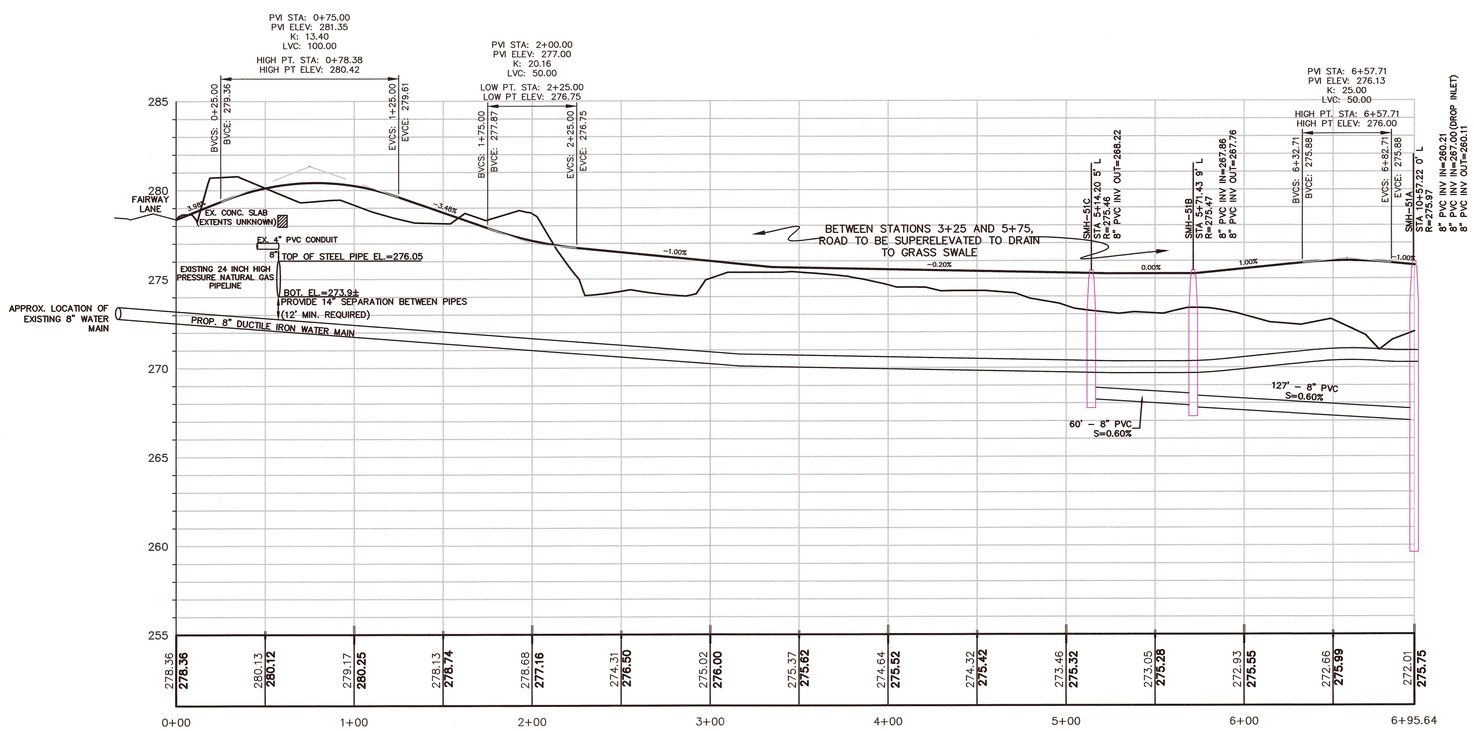


PLAN VIEW
1"=40'



PROFILE
HORIZONTAL: 1"=40'
VERTICAL: 1"=4'

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DD. BK. 6607, PG. 537
PORTION OF PL. NO. 97 OF 2012, PL. BK. 615
ASSESSORS PARCEL ID 14-005

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DD. BK. 29614, PG. 283
PL. NO. 666-A OF 9 OF 1972, PL. BK. 232 (LOT 213)
A PORTION OF ASSESSORS PARCEL ID 14-021

APPLICANT

TIMBER CREST ESTATES LLC
C/O MOUNIR TAYARA
135 MAIN STREET, SUITE 5
MEDWAY MA, 02053

FINAL SUBMITTAL PLAN & PROFILE COMMON DRIVEWAY FOR LOTS 71-74 "TIMBER CREST ESTATES" OFF WINTHROP STREET, OHLSON CIRCLE, HOLLISTON STREET, FAIRWAY LANE & FERN PATH IN MEDWAY MASSACHUSETTS

Outback Engineering Incorporated
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COMMONWEALTH OF MASSACHUSETTS
JAMES A. PAVLIK
CIVIL
No. 36408
REGISTERED PROFESSIONAL ENGINEER

11-7-18

DATE: NOVEMBER 6, 2018

DRAWN BY: CJV	CHECKED BY: JAP
SCALE: 1"=40'	SHEET 37 OF 50

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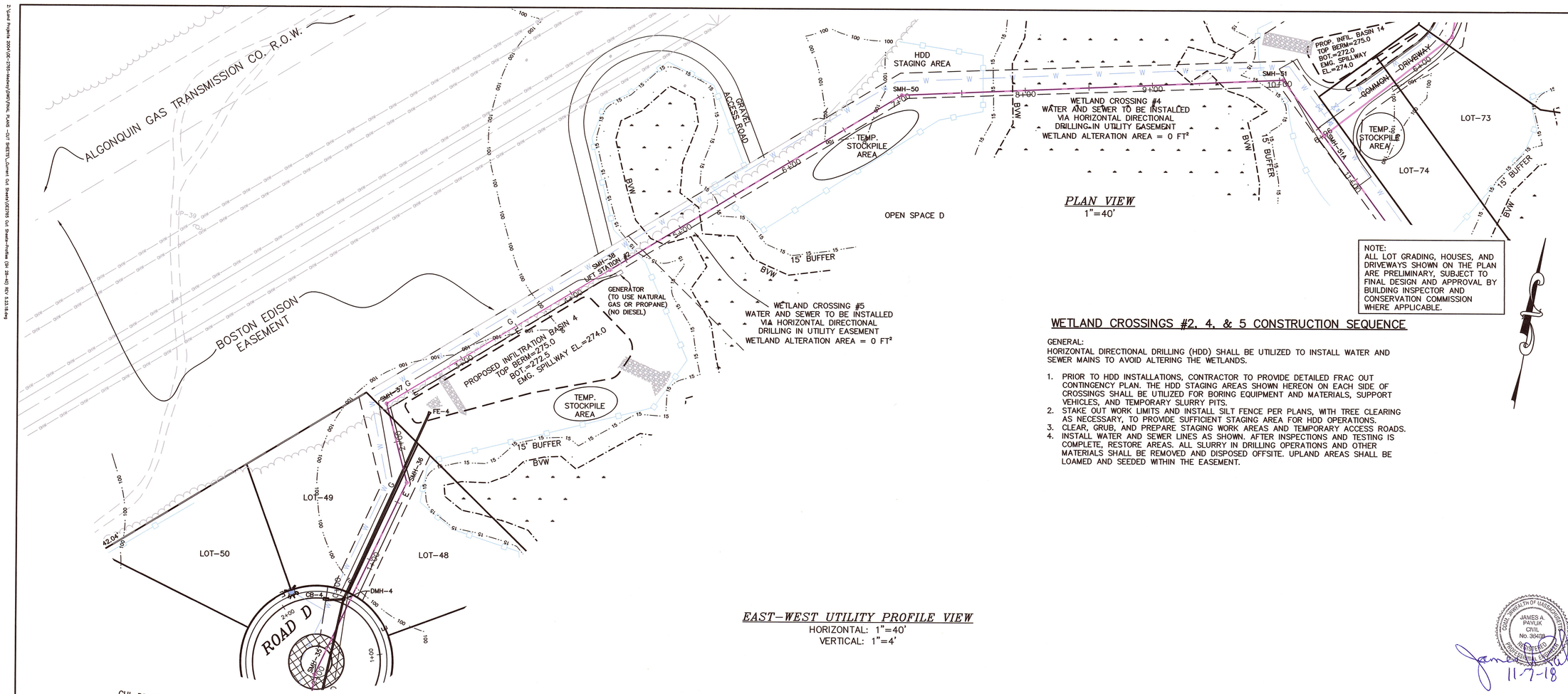

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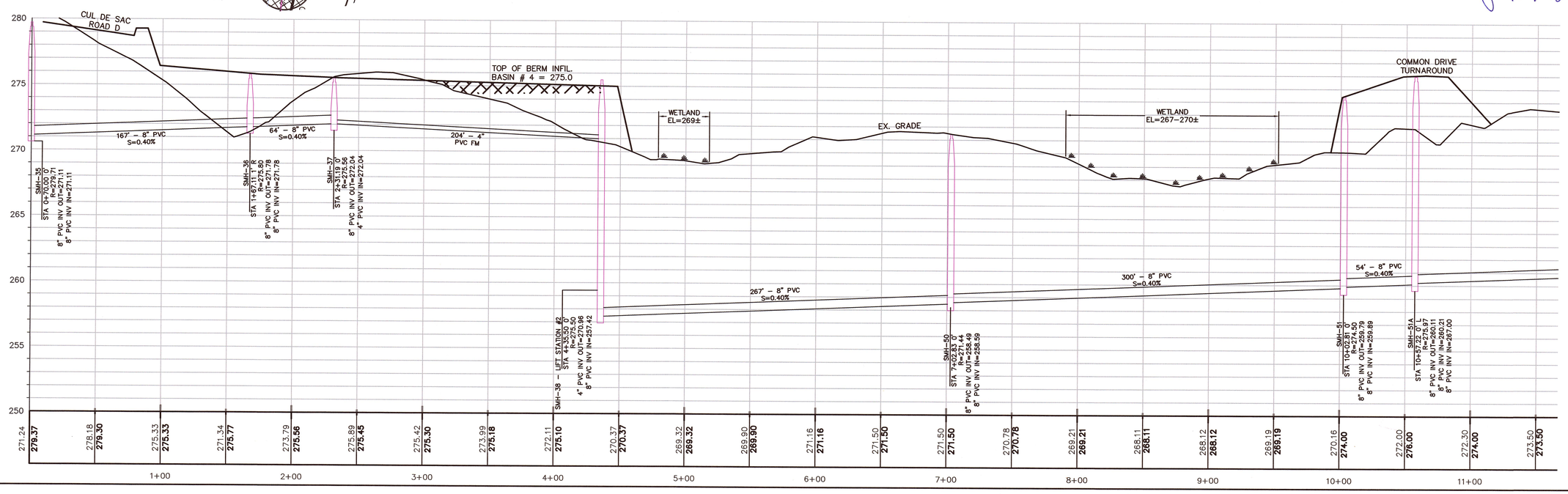
WETLAND CROSSINGS #2, 4, & 5 CONSTRUCTION SEQUENCE

GENERAL:
HORIZONTAL DIRECTIONAL DRILLING (HDD) SHALL BE UTILIZED TO INSTALL WATER AND SEWER MAINS TO AVOID ALTERING THE WETLANDS.

1. PRIOR TO HDD INSTALLATIONS, CONTRACTOR TO PROVIDE DETAILED FRAC OUT CONTINGENCY PLAN. THE HDD STAGING AREAS SHOWN HEREON ON EACH SIDE OF CROSSINGS SHALL BE UTILIZED FOR BORING EQUIPMENT AND MATERIALS, SUPPORT VEHICLES, AND TEMPORARY SLURRY PITS.
2. STAKE OUT WORK LIMITS AND INSTALL SILT FENCE PER PLANS, WITH TREE CLEARING AS NECESSARY, TO PROVIDE SUFFICIENT STAGING AREA FOR HDD OPERATIONS.
3. CLEAR, GRUB, AND PREPARE STAGING WORK AREAS AND TEMPORARY ACCESS ROADS.
4. INSTALL WATER AND SEWER LINES AS SHOWN. AFTER INSPECTIONS AND TESTING IS COMPLETE, RESTORE AREAS. ALL SLURRY IN DRILLING OPERATIONS AND OTHER MATERIALS SHALL BE REMOVED AND DISPOSED OFFSITE. UPLAND AREAS SHALL BE LOAMED AND SEEDED WITHIN THE EASEMENT.

EAST-WEST UTILITY PROFILE VIEW

HORIZONTAL: 1"=40'
VERTICAL: 1"=4'



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COMMONWEALTH OF MASSACHUSETTS
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CIVIL
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REGISTERED PROFESSIONAL ENGINEER

James A. Pavlik
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FINAL SUBMITTAL PLAN & PROFILE EAST-WEST UTILITY CONNECTION "TIMBER CREST ESTATES" OFF WINTHROP STREET, OHLSON CIRCLE, HOLLISTON STREET, FAIRWAY LANE & FERN PATH IN MEDWAY MASSACHUSETTS

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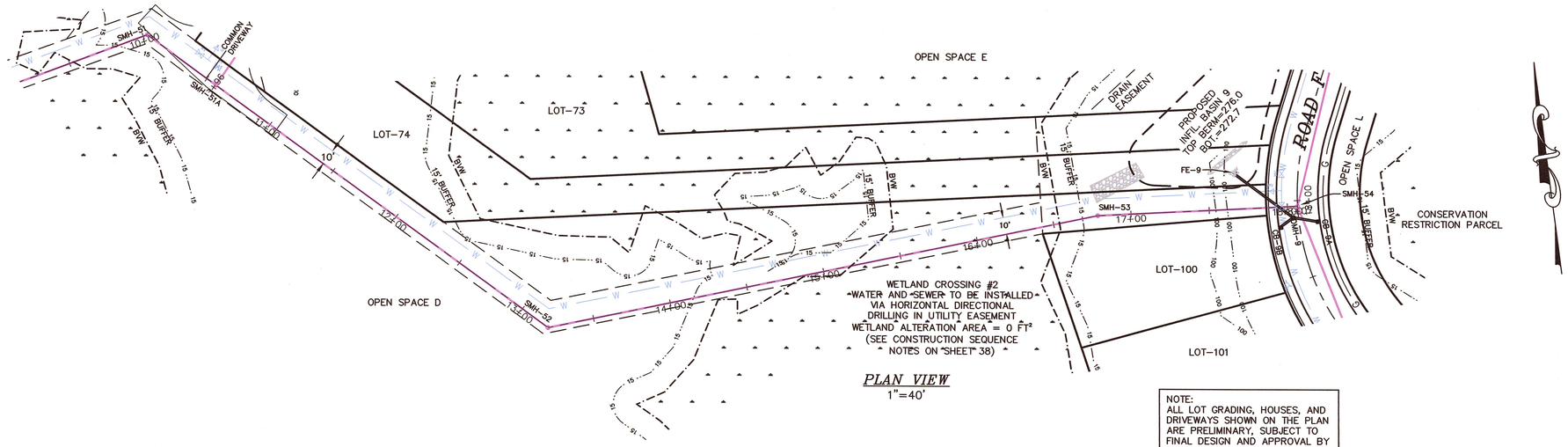

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EAST-WEST UTILITY PROFILE VIEW
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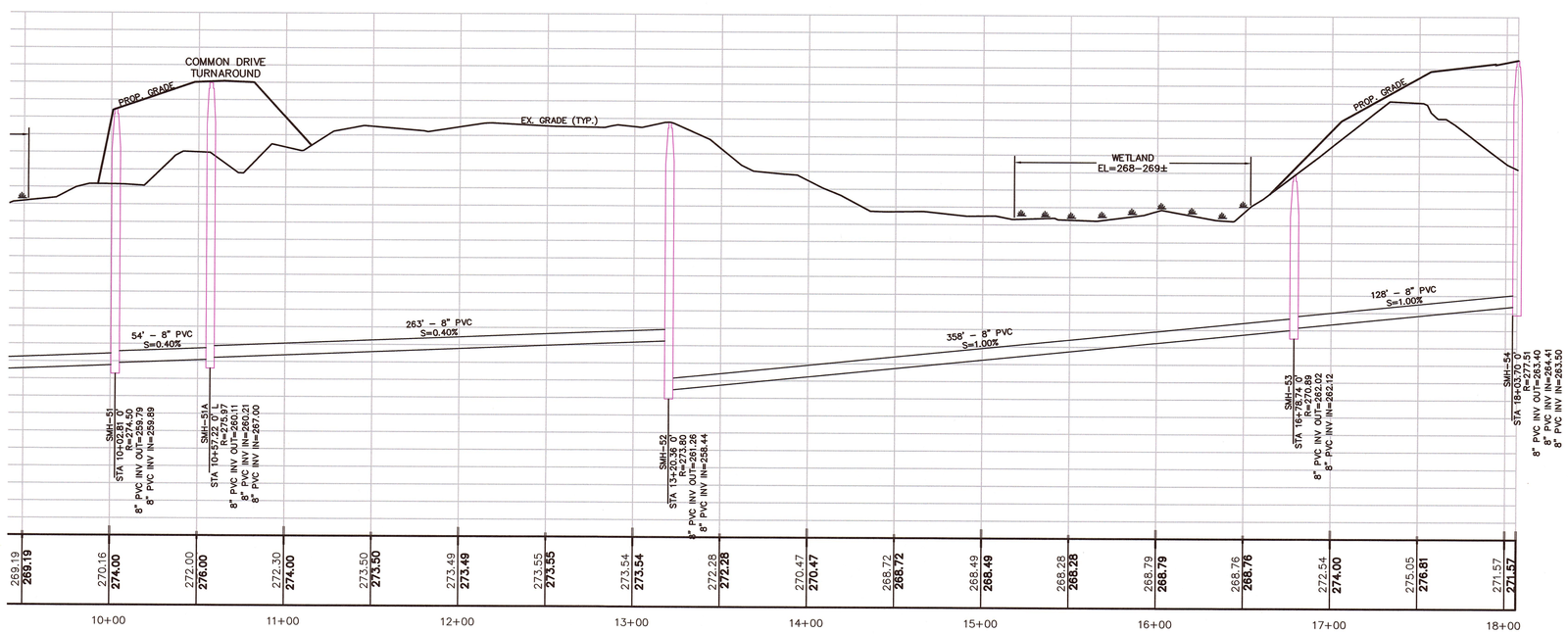

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DD. BK. 29614, PG. 283
PL. NO. 666-A OF 9 OF 1972, PL. BK. 232 (LOT 213)
A PORTION OF ASSESSORS PARCEL ID 14-021

APPLICANT
TIMBER CREST ESTATES LLC
C/O MOUNIR TAYARA
135 MAIN STREET, SUITE 5
MEDWAY MA, 02053

FINAL SUBMITTAL PLAN & PROFILE EAST-WEST UTILITY CONNECTION "TIMBER CREST ESTATES" OFF WINTHROP STREET, OHLSON CIRCLE, HOLLISTON STREET, FAIRWAY LANE & FERN PATH IN MEDWAY MASSACHUSETTS

COMMONWEALTH OF MASSACHUSETTS
JAMES A. PAVLIK
CIVIL
No. 33408
REGISTERED PROFESSIONAL ENGINEER

11-7-18

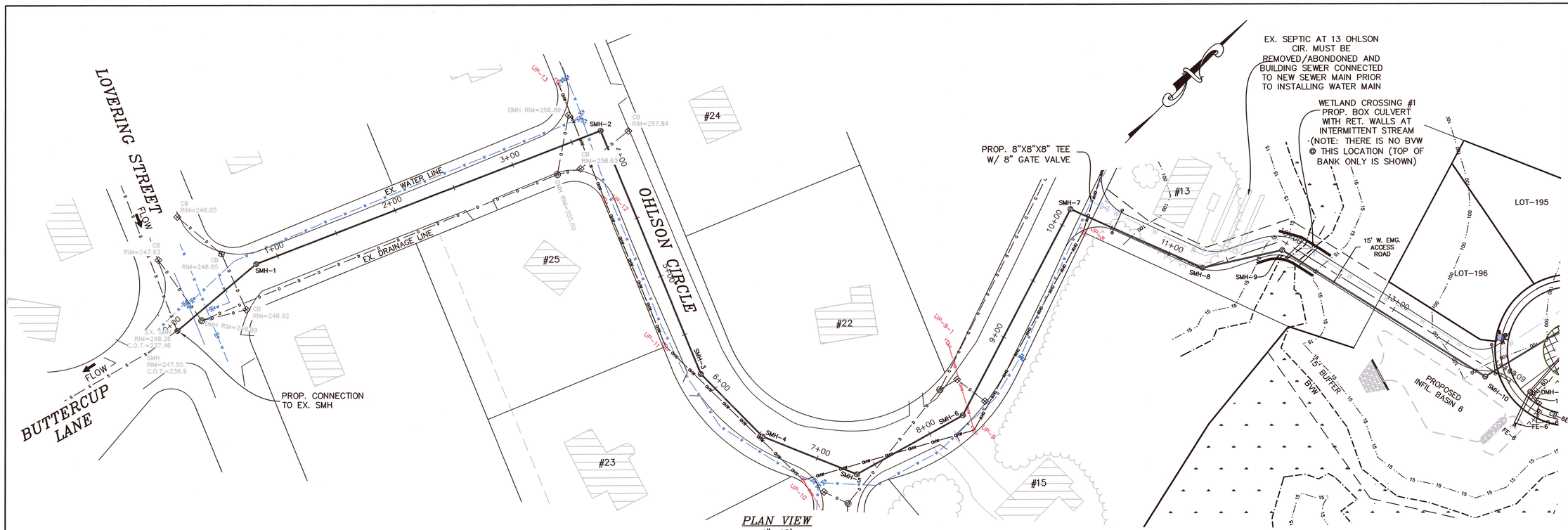
Outback Engineering Incorporated
165 EAST GROVE STREET
MIDDLEBOROUGH, MA 02346
TEL: (508)-946-9231
FAX: (508)-947-8873
www.outback-eng.com

DATE: NOVEMBER 6, 2018

DRAWN BY: CJV	CHECKED BY: JAP
SCALE: 1"=40'	SHEET 39 OF 50

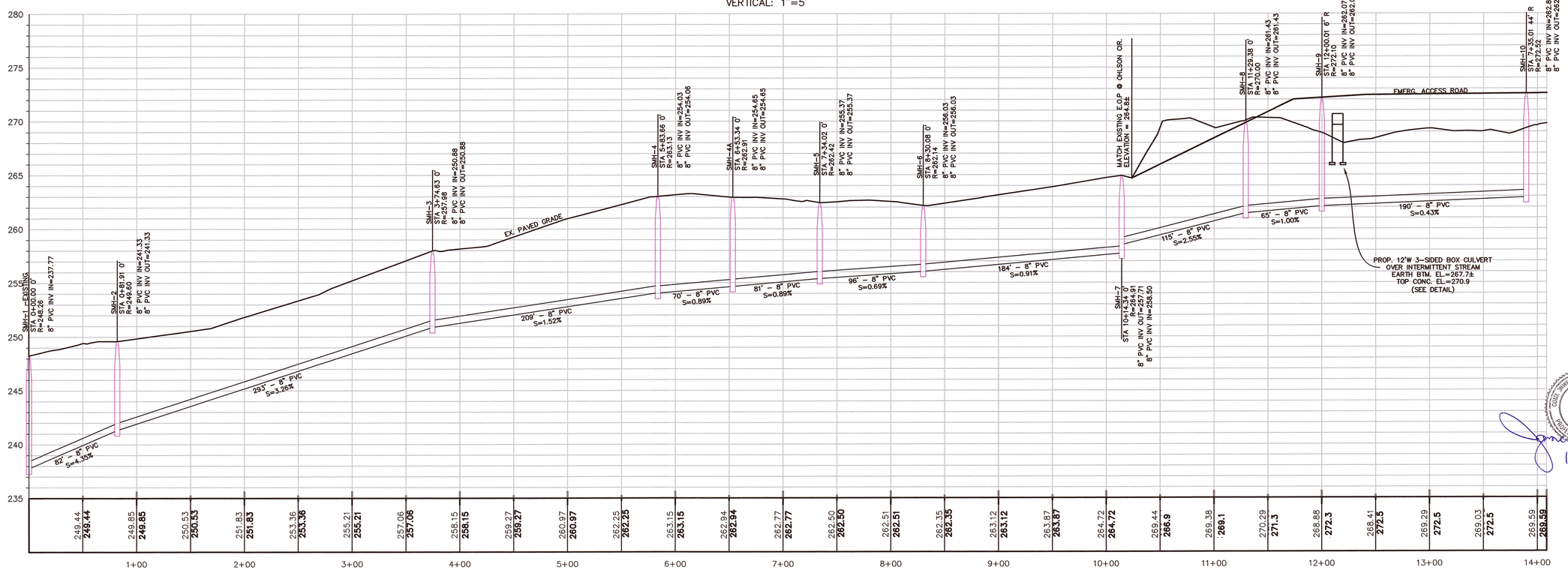
0' 40' 80' 120'

OE-2765



PLAN VIEW
1"=40'

SEWER CONNECTION PROFILE VIEW
HORIZONTAL: 1"=50'
VERTICAL: 1"=5'



REVISIONS

NO.	DATE	DESCRIPTION

OWNERS

WICKETT DEVELOPMENT COMPANY, INC.
38746 CLINTON AVENUE DADE CITY, FL 33525
DD. BK. 13071, PAGE 203
PL. NO. 229 OF 2003, PL. BK. 507 (PARCEL A)
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DD. BK. 6607, PG. 537
PORTION OF PL. NO. 97 OF 2012, PL. BK. 615
ASSESSORS PARCEL ID 14-005

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ASSESSORS PARCEL ID 9-051
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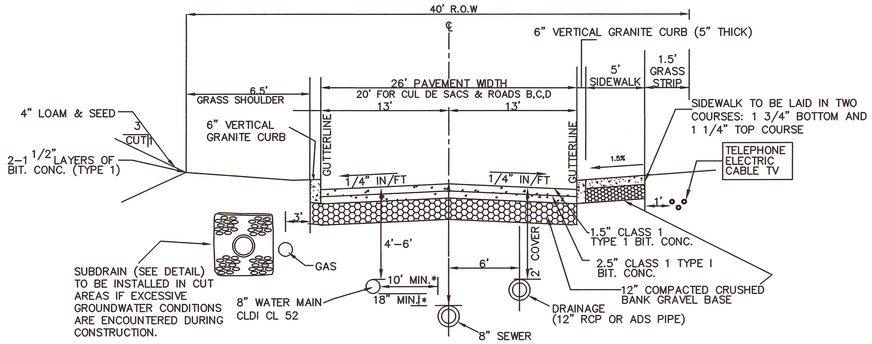
SCALE: 1"=40'	SHEET 40 OF 50

0' 40' 80' 120'

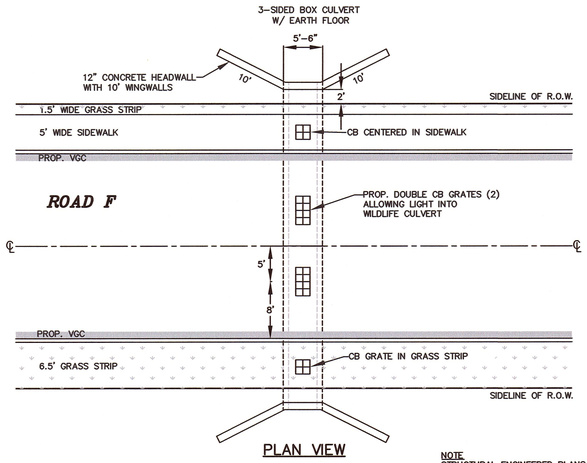
OE-2765



*IF LESS THAN 10' HORIZONTAL SEPARATION BETWEEN WATER & SEWER, EACH PIPE SHALL BE LAID IN A SEPARATE TRENCH. SEE OTHER NOTES ON SHEET 2

TYPICAL ROADWAY CROSS SECTION

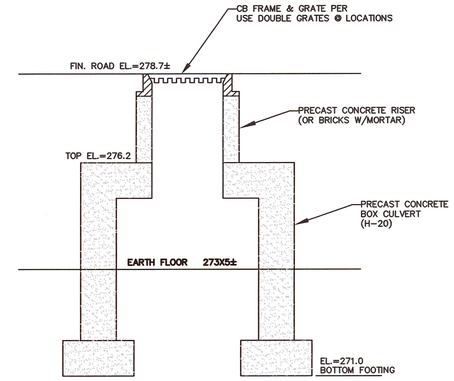
NOT TO SCALE



PLAN VIEW

SCALE: 1"=10'

NOTE
STRUCTURAL ENGINEERED PLANS & DETAILS TO BE PROVIDED PRIOR TO CONSTRUCTION.



CROSS SECTION

SCALE: 1"=20'

AMPHIBIAN WILDLIFE CULVERT – ROAD F

BOX CULVERT REPLACEMENT CONSTRUCTION SEQUENCE

THE CULVERT SHOULD BE INSTALLED DURING THE LOW FLOW PERIOD (APPROXIMATELY JUNE TO OCTOBER). OWNER/CONTRACTOR MUST NOTIFY CONSERVATION COMMISSION 1 WEEK IN ADVANCE OF PROPOSED COMMENCEMENT TO ENSURE SUITABLE CONDITIONS ARE PRESENT AND SHALL FOLLOW THIS CONSTRUCTION SEQUENCE AS CLOSELY AS POSSIBLE. THE CULVERT INSTALLATION IS EXPECTED TO TAKE 1 WEEK, AND SHOULD BE DONE IS CONJUNCTION WITH THE RETAINING WALLS TO MINIMIZE POTENTIAL DISTURBANCE TO THE WETLANDS.

1. INSTALL SILT FENCE PER PLANS.
2. CLEAR AND GRUB UNSUITABLE SOILS
3. INSTALL WATER AND SEWER LINES PER PLANS, AND RESTORE STREAM CHANNEL LINES AND GRADES.
4. EXCAVATE FOR NEW CULVERT AND WALL FOOTINGS PER STRUCTURAL PLANS.
   - 4.1. EXCAVATED AREA SHOULD EXTEND 24" HORIZONTALLY BEYOND THE EDGE OF THE PROPOSED CULVERT AND WALL FOUNDATIONS.
   - 4.2. SCRAPE BOTTOM OF FOOTING TRENCH WITH NON-TOOTHED MACHINE, IMMEDIATELY FOLLOWED BY PLACEMENT OF A REINFORCING GEOTEXTILE AND A 12" LAYER OF 1" SIZE CRUSHED STONE, IF REQUIRED.
   - 4.3. CONTRACTOR SHALL UTILIZE THE STONE FOOTING TRENCH FOR GROUNDWATER CONTROL IF NECESSARY. A SUMP MAY BE DUG ADJACENT TO THE UPSTREAM END OF FOOTING TRENCHES WHERE A PUMP MAY BE INSTALLED TO MAINTAIN WATER LEVELS BELOW THE FOOTINGS. THE PUMP DISCHARGE SHALL BE ROUTED TO A TEMPORARY STRAW-BALE FILTER AT DOWNGRADIENT END.
   - 4.4. WHERE WORK IS TO BE DONE DURING NO FLOW/DRY CONDITIONS, IT IS NOT ANTICIPATED THAT TEMPORARY BY-PASS PIPING OR PUMPS SHALL BE NECESSARY. HOWEVER, CONTRACTOR SHALL BE PREPARED TO IMPLEMENT A CONTINGENCY PLAN IF WEATHER CONDITIONS ARISE (SUCH AS A HURRICANE FORECAST) TO PROVIDE AN OPEN STREAM CHANNEL WITH A CRUSHED STONE CHECK DAM AND STRAW BALES/SILT FENCE AT OUTLET END OF STREAM.
5. INSTALL FOOTINGS PER STRUCTURAL CULVERT PLANS.
6. INSTALL BOX CULVERT AND BACKFILL INTERIOR AS SECTIONS ARE PLACED.
   - 6.1. COMPACT BED MATERIAL.
   - 6.2. WASH BED MATERIAL TO ENSURE THAT FINE MATERIALS FILL VOIDS.
   - 6.3. BY-PASS PIPING MAY BE REMOVED, IF ANY.
7. INSTALL RETAINING WALLS PER PLANS.
8. BACKFILL WALLS AND RESTORE/CONSTRUCT WELL-GRADED BANKS FOR ROUGHNESS AND PASSAGE BY SMALL WILDLIFE AND IN-STREAM BANK-EDGE HABITAT. USING NATIVE SUBSOIL OVERLAID WITH 6" LAYER OF COMPOST SAND AND LOAM MIXTURE (EQUAL PARTS) BLEND CONSTRUCTED BANKS INTO EXISTING BANKS.
9. IMPLEMENT RESTORATION PLAN PER GODDARD CONSULTING.

CONCRETE ARCH DESIGN NOTES

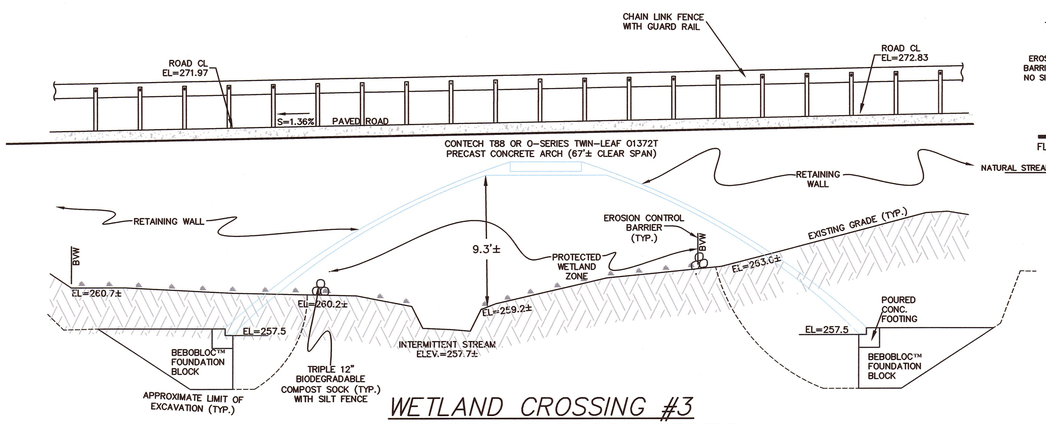
1. STRUCTURAL ENGINEERED PLANS & DETAILS TO BE PROVIDED PRIOR TO CONSTRUCTION.
2. SOIL BORINGS AND OTHER GEOTECHNICAL DATA COLLECTION AS MAY BE REQUIRED FOR DESIGN PURPOSE SHALL BE COLLECTED; CONSERVATION COMMISSION MUST BE NOTIFIED PRIOR TO CONDUCTING IN SITU BORINGS OR TEST PITS WITHIN WETLANDS.
3. ALL UNSUITABLE MATERIAL SUCH AS ORGANIC LAYERS SHALL BE REMOVED BENEATH FOOTINGS.
4. EXISTING STREAM BED TO REMAIN UNDISTURBED.
5. OPTIMUM STANDARDS PER MASSACHUSETTS STREAM CROSSING GUIDELINES;
   - CLEAR HEIGHT=6' DESIRED (9'± PROVIDED)
   - OPENNESS RATIO = (CROSS SECTIONAL AREA) / LENGTH ≥ 1.64
     =APPROX. 310 S.F / 36' = 8.61 (AREA WITHIN BVW ONLY)
   - MIN. SPAN= 1.2 X BANKFULL WIDTH = 1.2 X 11'* = 13.2' (CLEAR SPAN IS 68'±)

   *AVERAGE WIDTH OF TOP OF BANK.

BRIDGE CONSTRUCTION SEQUENCE

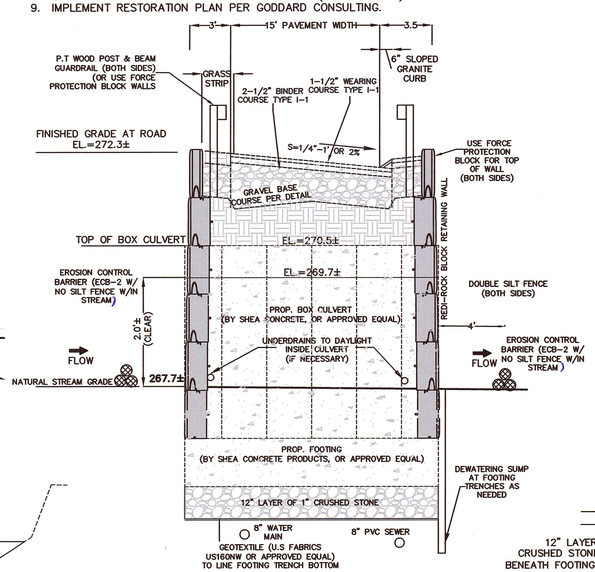
AS ROAD CONSTRUCTION PROGRESSES TOWARD BOTH SIDES OF WETLAND CROSSING #3 FROM HOLLISTON STREET AND 13 FAIRWAY LANE, BRIDGE CONSTRUCTION SHALL COMMENCE. THE BRIDGE ABUTMENTS SHOULD BE INSTALLED DURING THE LOW FLOW PERIOD (APPROXIMATELY JUNE TO OCTOBER). OWNER/CONTRACTOR MUST NOTIFY CONSERVATION COMMISSION 1 WEEK IN ADVANCE OF PROPOSED COMMENCEMENT TO ENSURE SUITABLE CONDITIONS ARE PRESENT AND SHALL FOLLOW THIS CONSTRUCTION SEQUENCE AS CLOSELY AS POSSIBLE.

1. LIMITS OF CLEARING TO BE MARKED ACROSS WETLANDS & STREAM
2. BETWEEN FILTERMITT WORK LIMITS, TREES SHALL BE CUT MANUALLY USING CHAIN SAWS (NO HEAVY EQUIPMENT ALLOWED). BRANCHES TO BE LIMBED AND LOGS TO BE CUT TO SHORT LENGTHS FOR REMOVAL BY HAND OR WINCH TO UPLAND.
3. INSTALL FILTERMITT PER PLANS (NO HEAVY EQUIPMENT IS ALLOWED TO WORK IN UNPROTECTED BORDERING VEGETATED WETLANDS OR TO CROSS THE STREAM.
4. CLEAR AND GRUB STUMPS & UNSUITABLE SOILS. NO STOCKPILES ALLOWED WITHIN 50' OF WETLANDS.
5. EXCAVATE AND CONSTRUCT FOUNDATION AND POURED CONCRETE FOOTINGS PER STRUCTURAL DESIGN PLANS. WORK TO BE CONDUCTED FROM UPLAND SIDES OF WORK LIMITS, TO PROTECT BVW AND STREAM.
6. CONCRETE ARCHES AND RETAINING WALLS TO BE INSTALLED WITH CRANES SET IN UPLAND AREAS, PER STRUCTURAL DESIGN PLANS AND MANUFACTURERS REQUIREMENTS.
7. BACKFILL ARCH AND RETAINING WALLS.
8. INSTALL UTILITIES AND ROADWAY WITH GUARDRAIL.
9. EXISTING GRADE AND VEGETATION WITHIN DISTURBED BORDERING VEGETATED WETLAND TO BE RESTORED POST-CONSTRUCTION. (REFER TO RESTORATION PLAN BY GODDARD CONSULTING)



WETLAND CROSSING #3
ROAD F BRIDGE CROSS SECTION

HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=5'

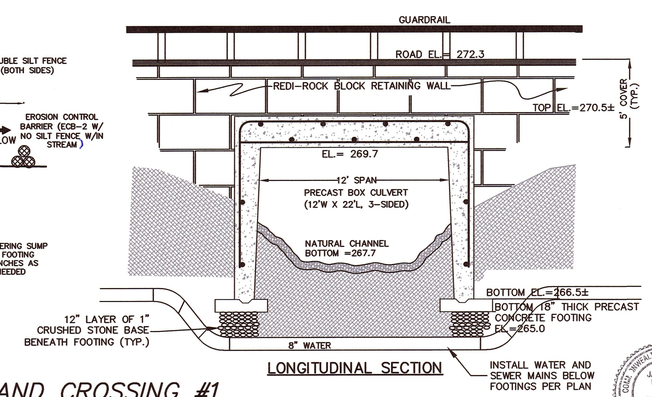


CROSS SECTION

BOX CULVERT DESIGN NOTES

1. STRUCTURAL ENGINEERED PLANS & DETAILS TO BE PROVIDED PRIOR TO CONSTRUCTION
2. ALL UNSUITABLE MATERIAL SUCH AS ORGANIC LAYERS SHALL BE REMOVED BENEATH FOOTING
3. BOX CULVERT CALCULATIONS PER MASSACHUSETTS STREAM CROSSING GUIDELINES:
   - OPENNESS RATIO = (CROSS SECTIONAL AREA) / LENGTH ≥ 0.82
     = (2.0' X 12') / 22' = 1.09
   - MIN. SPAN= 1.2 X BANKFULL WIDTH = 1.2 X 8'* = 9.6' (USE 12')

   *AVERAGE WIDTH OF TOP OF BANK.
4. EXISTING STREAM BED TO BE RESTORED TO LINE AND GRADE AFTER INSTALLATION OF WATER AND SEWER LINES.



LONGITUDINAL SECTION

WETLAND CROSSING #1
BOX CULVERT & RETAINING WALL DETAIL
EMERGENCY ACCESS ROAD E

NOT TO SCALE

COMMONWEALTH OF MASSACHUSETTS
JAMES A. PAVLIK
CIVIL
No. 35458
REGISTERED PROFESSIONAL ENGINEER

11-7-18

REVISIONS		
NO.	DATE	DESCRIPTION

OWNERS

WICKETT DEVELOPMENT COMPANY, INC.
38746 CLINTON AVENUE DADE CITY, FL 33525
DD. BK. 13071, PAGE 203
PL. NO. 229 OF 2003, PL. BK. 507 (PARCEL A)
ASSESSORS PARCEL ID 8-016
DD. BK. 22145, PG. 113 (LOTS 8, 10, 12 & 14)
DD. BK. 22145, PG. 114 (LOTS 7, 9, 11, 13 & 15)
PLAN NO. 80 & 81 OF 1967, PL. BK. 222
ASSESSORS PARCEL ID 9-058

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DD. BK. 6607, PG. 537
PORTION OF PL. NO. 97 OF 2012, PL. BK. 615
ASSESSORS PARCEL ID 14-005

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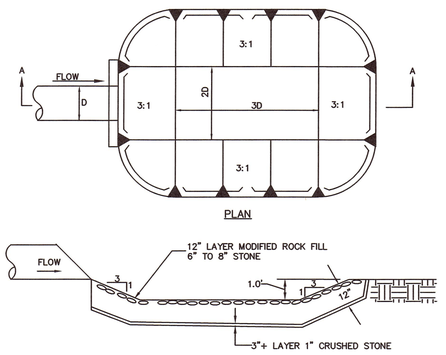
DRAWN BY: CJV	CHECKED BY: JAP
NOT TO SCALE	SHEET 41 OF 50

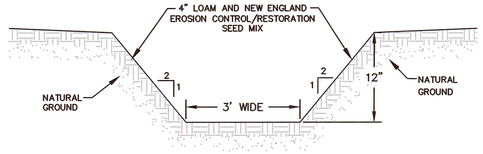
OE-2765

Z:\Land Projects 2014\OE-2765-Medway\DWG\FINAL PLANS -CUT SHEETS_Current Cut Sheets\OE2765 Cut Sheets-Details (08-15-18) REV 9.23.18.dwg



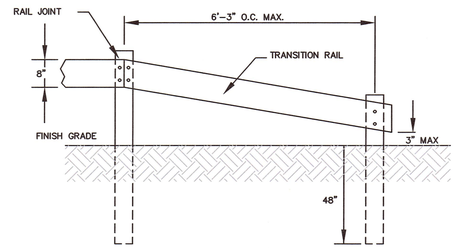
RIP RAP OUTLET PROTECTION

NOT TO SCALE

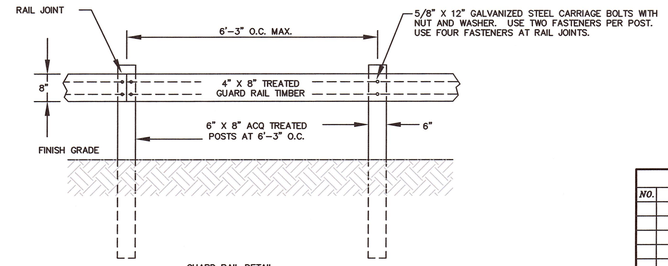


GRASS SWALE DETAIL AT COMMON DRIVE (LOTS 71–74)

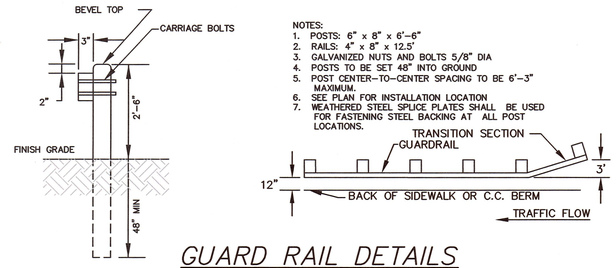
NOT TO SCALE
SWALE TO BE STABILIZED WITH EROSION CONTROL BLANKETS UNTIL STABILIZED



GUARD RAIL TRANSITION DETAIL
TO BE INSTALLED AT ALL GUARD RAIL ENDS EXCEPT BRIDGE ABUTMENTS



GUARD RAIL DETAIL



NOTES:
1. POSTS: 6" x 8" x 6'–6"
2. RAILS: 4" x 8" x 12.5'
3. GALVANIZED NUTS AND BOLTS 5/8" DIA
4. POSTS TO BE SET 48" INTO GROUND
5. POST CENTER–TO–CENTER SPACING TO BE 6'–3" MAXIMUM.
6. SEE PLAN FOR INSTALLATION LOCATION
7. WEATHERED STEEL SPLICE PLATES SHALL BE USED FOR FASTENING STEEL BACKING AT ALL POST LOCATIONS.

GUARD RAIL DETAILS

NOT TO SCALE

DMH–LC3 TO WQI–1
X=7.5" (7–1/2")

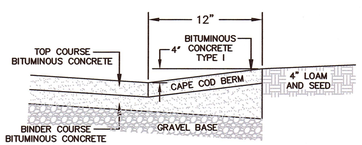
DMH–LC4 TO WQI–2
X=6.3" (6–5/16")

END VIEW

ATTACH END CAP TO 10" HDPE OUTLET FROM SPLITTER MANHOLE THEN CUT END CAP TO SPECIFIED HEIGHT FROM INVERT IN ORDER TO LIMIT FLOW TO WATER QUALITY INLET.

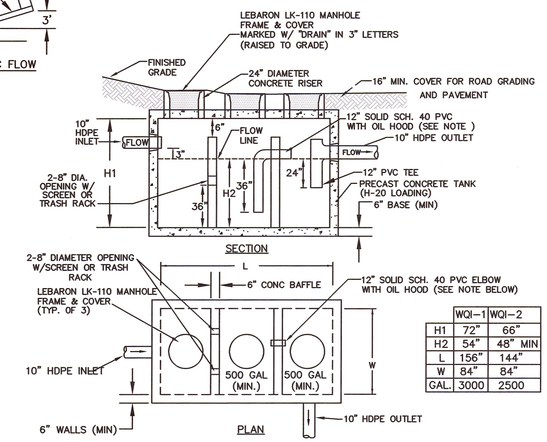
OUTLET FROM DRAIN MANHOLE TO WATER QUALITY INLET DETAIL

N.T.S.



CAPE COD BERM DETAIL

NOT TO SCALE



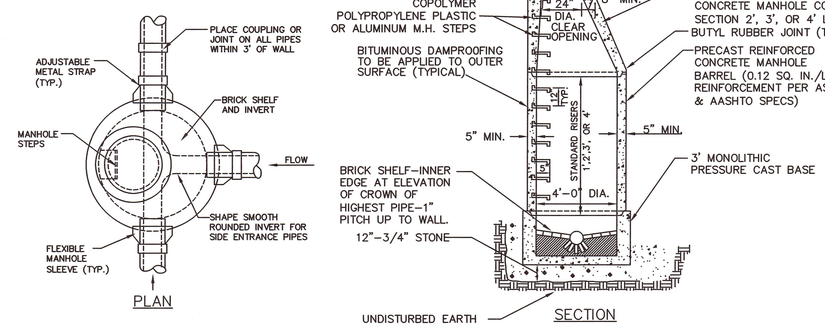
	WQI–1	WQI–2
H1	72"	66"
H2	54"	48" MIN
L	156"	144"
W	84"	84"
GAL.	3000	2500

WATER QUALITY INLET (H–20 LOADING)

NOT TO SCALE

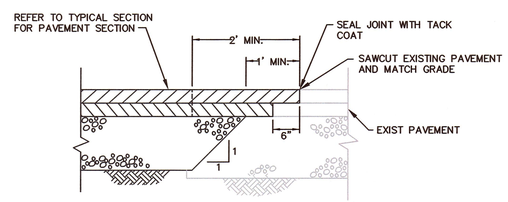
(TANK DIMENSIONS ARE SUGGESTED ONLY. TANK DIMENSIONS TO BE SUBMITTED TO DESIGN ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION)

NOTE:
OIL HOOD MAY BE CONSTRUCTED W/90° ELBOW & LENGTH OF SOLID PVC PIPE



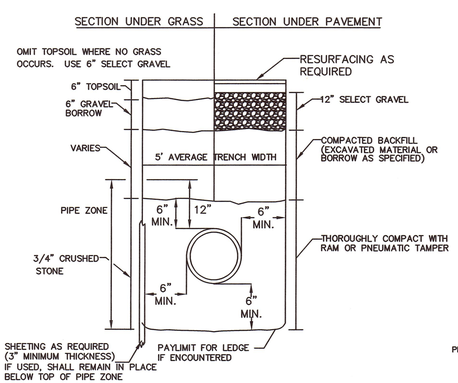
STANDARD SEWER MANHOLE SECTION

NOT TO SCALE



PAVEMENT MATCHING DETAIL

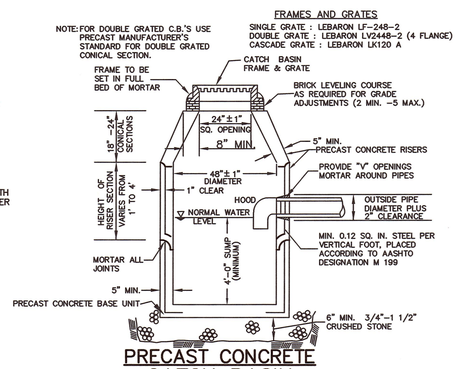
NOT TO SCALE



TYPICAL SEWER TRENCH DETAIL

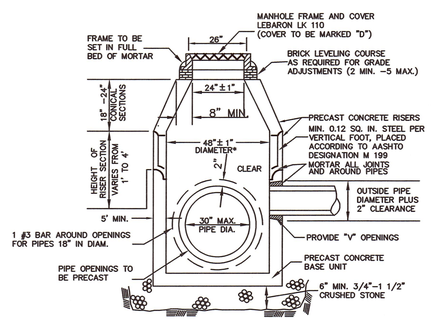
NOT TO SCALE

NOTES:
1. INCLUDES HOUSE SERVICES
2. EXISTING PAVEMENT SHALL BE SAW CUT BEFORE TRENCH EXCAVATION
3. PAY WIDTH EQUALS 5 FEET



PRECAST CONCRETE CATCH BASIN

NOT TO SCALE

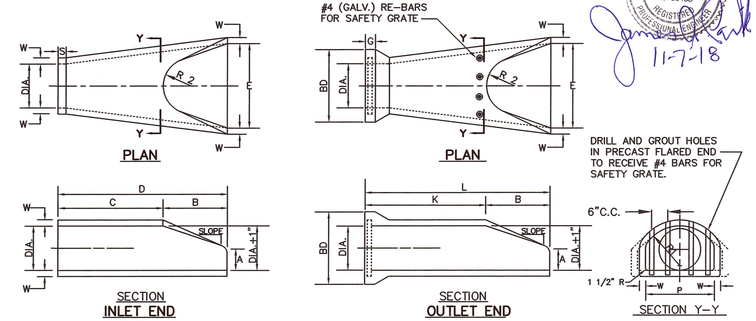


PRECAST CONCRETE DRAIN MANHOLE

NOT TO SCALE
(FOR PIPES UP TO 30" DIAM.)

*NOTE: OIL SEPARATING MANHOLES SHALL BE 6' DIAMETER (SEE DETAIL)

PROVIDE STEPS ON STRUCTURES OVER 5' IN DEPTH



DIA.	W	A	B	C	D	E	BD	K	L	P	DIA. + 1"	R1	R2	S	G	SLOPE
12"	2"	4"	2'–0"	4'–0 7/8"	6'–1 3/8"	2'–0"	20"	4'–6 1/8"	6'–6 1/8"	19 15/16"	13"	10 1/8"	9"	4"	2 1/2"	3:1
18"	2 1/2"	9"	2'–3"	3'–10"	6'–1"	3'–0"	28"	4'–3 7/8"	6'–6 7/8"	29"	19"	15 1/2"	12"	4"	2 3/4"	3:1
24"	3"	9 1/2"	3'–7 1/2"	2'–6"	6'–1"	4'–0"	36"	3'–0 1/2"	6'–8"	33 3/16"	25"	16 13/16"	14"	4"	3"	3:1

NOTE: ALL FLARED ENDS MUST BE RCP (ADS FLARED END ARE NOT ALLOWED)

REINFORCED CONCRETE PIPE FLARED ENDS FOR BELL AND SPIGOT PIPE

REVISIONS

NO.	DATE	DESCRIPTION

OWNERS

WICKETT DEVELOPMENT COMPANY, INC.
38746 CLINTON AVENUE DADE CITY, FL 33525
DD. BK. 13071, PAGE 203
PL. NO. 229 OF 2003, PL. BK. 507 (PARCEL A)
ASSESSORS PARCEL ID 8–016
DD. BK. 22145, PG. 113 (LOTS 8, 10, 12 & 14)
DD. BK. 22145, PG. 114 (LOTS 7, 9, 11, 13 & 15)
PLAN NO. 80 & 81 OF 1967, PL. BK. 222
ASSESSORS PARCEL ID 9–058

HENRY L. WICKETT
38746 CLINTON AVENUE, DADE CITY, FL 33525
DD. BK 9742, PG. 202
ASSESSORS PARCEL ID 8–019
DD. BK. 32754, PAGE 363
ASSESSORS PARCEL ID 8–020

HENRY L. WICKETT & HENRY L. WICKETT JR.
38746 CLINTON AVENUE DADE CITY, FL 33525
DD. BK. 6607, PG. 537
PORTION OF PL. NO. 97 OF 2012, PL. BK. 615
ASSESSORS PARCEL ID 14–005

NOVUS HOMES LLC
135 MAIN STREET, SUITE 5, MEDWAY MA, 02053
DD. BK. 32449, PG. 424
PL. NO. 666–C OF 9 OF 1972, PL. BK. 232 (LOT 214)
A PORTION OF ASSESSORS PARCEL ID 14–020

TIMBER CREST ESTATES LLC
C/O MOUNIR TAYARA
135 MAIN STREET, SUITE 5, MEDWAY MA 02053
DD. BK. 34358, PG. 264
PL. NO. 1103 OF 1950, PL. BK. 2945, PG. 230
ASSESSORS PARCEL ID 9–051
DD. BK. 32841, PG. 560
PL. NO. 75 OF 2015, PL. BK. 636
ASSESSORS PARCEL ID 15–001

SUSAN J. PAVLIK, NANCY P RUSSELL, JAMES A. PAVLIK & THOMAS F. PAVLIK
19 CENTER STREET MEDWAY, MA 02053
DD. BK. 24701, PG. 7
PL. NO. 388 OF 1995, PL. BK. 431
ASSESSORS PARCEL ID 15–019

JOHN C. SIMCOX & KATHLEEN R. SIMCOX, TRUSTEES OF THE SIMCOX FAMILY TRUST
11 OHLSON CIRCLE, MEDWAY, MA 02053
DD. BK. 29614, PG. 283
PL. NO. 666–A OF 9 OF 1972, PL. BK. 232 (LOT 213)
A PORTION OF ASSESSORS PARCEL ID 14–021

APPLICANT

TIMBER CREST ESTATES LLC
C/O MOUNIR TAYARA
135 MAIN STREET, SUITE 5
MEDWAY MA, 02053

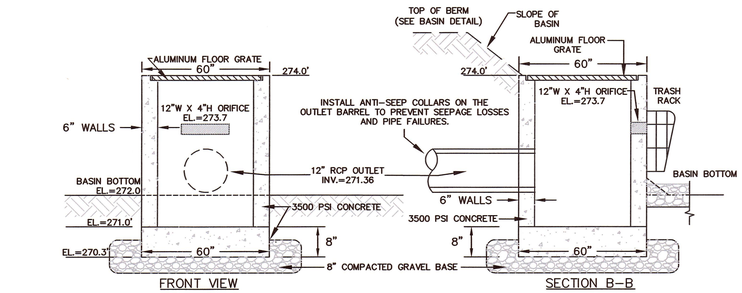
COMMONWEALTH OF MASSACHUSETTS
JAMES A. PAVLIK
CIVIL
No. 38408
REGISTERED PROFESSIONAL ENGINEER
11-7-18

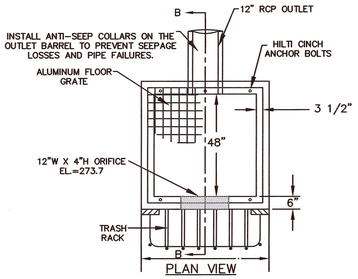
FINAL SUBMITTAL
DETAIL SHEET
"TIMBER CREST ESTATES"
OFF
WINTHROP STREET,
OHLSON CIRCLE
FAIRWAY LANE &
FERN PATH
IN
MEDWAY
MASSACHUSETTS

Outback Engineering Incorporated
165 EAST GROVE STREET
MIDDLEBOROUGH, MA 02346
TEL: (508)–946–9231
FAX: (508)–947–8873
www.outback–eng.com

DATE: NOVEMBER 6, 2018
DRAWN BY: CJV | CHECKED BY: JAP
NOT TO SCALE | SHEET 42 OF 50

OE–2765





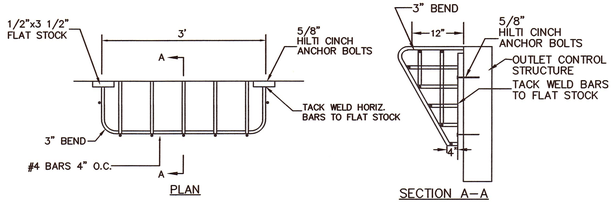
NOTES:
1. COVER GRATE SHALL BE SET FLUSH WITH THE TOP OF STRUCTURE AND SHALL HAVE A HINGED, CLEAR ACCESS OPENING OF 24" X 24" WITH A HASP AND LOCK.
2. THE GRATE SHALL BE DESIGNED FOR A UNIFORM LOAD OF 100 #/FT , SHALL BE SUPPORTED ON ANGLE FRAME WITH FASTENERS, AND SHALL BE ALUMINUM OR LIGHT DUTY STEEL THAT IS HOT-DIPPED GALVANIZED AFTER FABRICATION.

GRATING

ALUMINUM:	ASTM-B221
LIGHT DUTY STEEL:	ASTM-A1011 ASTM-A510

INFILTRATION BASIN #14 OUTLET CONTROL STRUCTURE DETAIL

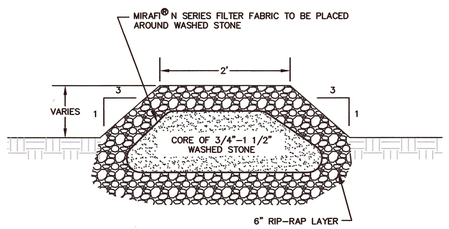
NOT TO SCALE



ALL COMPONENTS TO BE HOT DIPPED GALVANIZED OR STAINLESS STEEL 304

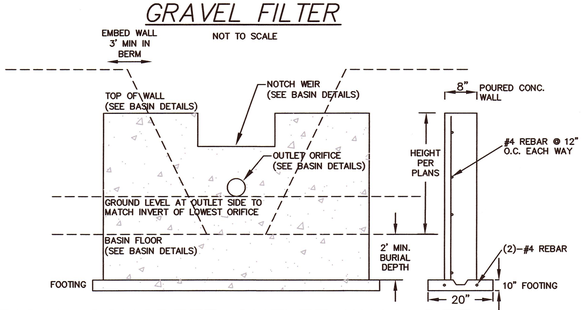
TRASH RACK

NOT TO SCALE



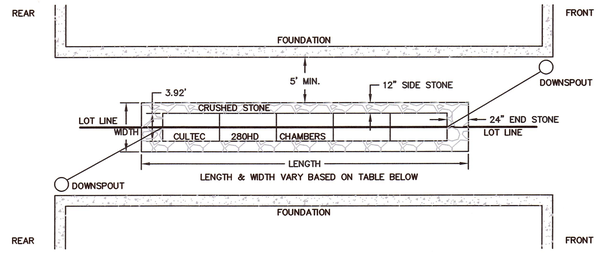
GRAVEL FILTER

NOT TO SCALE



TYPICAL CONCRETE OUTLET WALL DETAIL FOR INFILTRATION & DETENTION BASINS

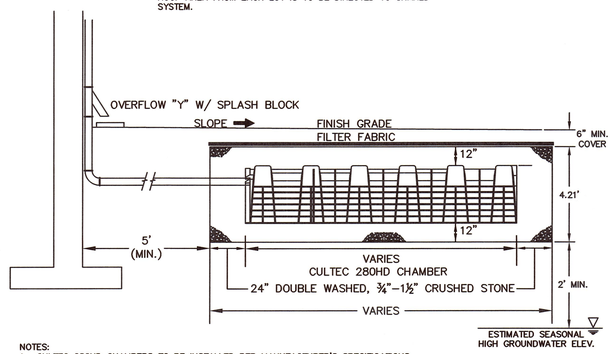
NOT TO SCALE



SHARED ROOF DRAIN PLAN VIEW – EAST SIDE

NOT TO SCALE

WHEN ROOF DRAIN IS SHARED BETWEEN LOTS, ONE HALF OF ROOF AREA FROM EACH LOT IS TO BE DIRECTED TO SHARED SYSTEM.



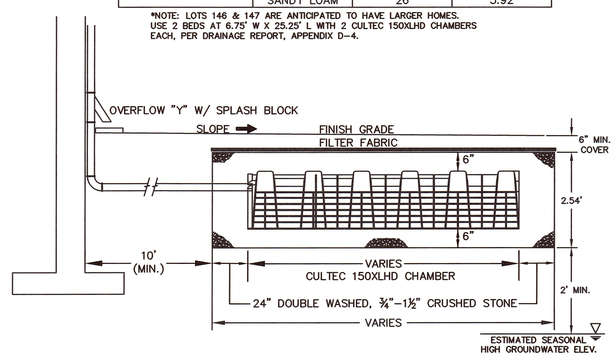
NOTES:
1. CULTEC 280HD CHAMBERS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
2. ROOF DRAIN SYSTEMS TO BE INSTALLED ALONG THE PROPERTY LINES BETWEEN UNITS, CAPTURING HALF OF EACH UNITS ROOF RUNOFF. IN CASES WHERE THERE IS NO ABUTTING UNIT, HALF OF THE DESIGNED BED, SHOWN IN THE TABLE BELOW, SHALL BE INSTALLED AS SHOWN ON THE GRADING SHEETS OF THE PLAN SET.
3. ROOF DRAINS HAVE BEEN DESIGNED TO ACCOMMODATE THE 100-YR STORM EVENT.
4. REFER TO DRAINAGE REPORT DATED 8/14/18 FOR PRELIMINARY ROOF DRAIN CALCULATIONS BASED ON ASSUMED ROOF AREAS, SOIL TYPES, AND GROUNDWATER ELEVATIONS. DURING THE BUILDING PERMIT PROCESS, ROOF DRAIN CALCULATIONS AND SITE PLANS WITH DETAILS ARE REQUIRED, BASED ON ACTUAL ROOF AREAS, SOIL TYPES, AND GROUNDWATER ELEVATIONS.

TYPICAL ROOF DRAIN DETAIL – EAST SIDE

NOT TO SCALE

ROOF AREA (SF)*	SOIL TYPE	LENGTH (FT)	WIDTH (FT)
1800 (900 PER LOT)	SAND	26	5.92
	LOAMY SAND	40	5.92
	SANDY LOAM	47	5.92
900	SAND	19	5.92
	LOAMY SAND	26	5.92
	SANDY LOAM	26	5.92

*NOTE: LOTS 146 & 147 ARE ANTICIPATED TO HAVE LARGER HOMES. USE 2 BEDS AT 6.75' W X 25.25' L WITH 2 CULTEC 150XLHD CHAMBERS EACH, PER DRAINAGE REPORT, APPENDIX D-4.



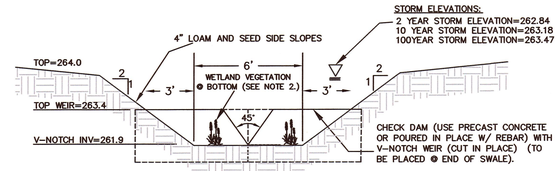
NOTES:
1. CULTEC 150XLHD CHAMBERS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
2. ROOF DRAIN SYSTEMS TO BE INSTALLED TO CAPTURE HALF OF EACH UNITS ROOF AREA. EXCEPT REAR ROOFS ON LOTS 19 AND 20 WHICH SHALL BE PIPED OR LAWN SLOPED TO BIO-RETENTION AREA #2 AND #3, RESPECTIVELY.
3. BEDS MAY BE SPLIT UP INTO 2 OR MORE BEDS TO CAPTURE PORTIONS OF ROOF AREAS.
4. ROOF DRAINS HAVE BEEN DESIGNED TO ACCOMMODATE THE 100-YR STORM EVENT.
5. REFER TO DRAINAGE REPORT DATED 8/14/18 FOR PRELIMINARY ROOF DRAIN CALCULATIONS BASED ON ASSUMED ROOF AREAS, SOIL TYPES, AND GROUNDWATER ELEVATIONS. DURING THE BUILDING PERMIT PROCESS, ROOF DRAIN CALCULATIONS AND SITE PLANS WITH DETAILS ARE REQUIRED, BASED ON ACTUAL ROOF AREAS, SOIL TYPES, AND GROUNDWATER ELEVATIONS.

TYPICAL ROOF DRAIN DETAIL – WEST SIDE

NOT TO SCALE

ROOF AREA (SF)*	SOIL TYPE	LENGTH (FT)	WIDTH (FT)
800	SAND	15	6.75
	LOAMY SAND	25.25	10
	SANDY LOAM	25.25	10
1100	SAND	15	10
	LOAMY SAND	25.25	10
	SANDY LOAM	25.25	10

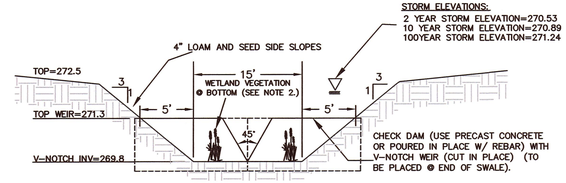
* 2 BEDS REQUIRED PER HOME OF 1600 S.F. OR 2200 S.F.



NOTES:
1. SWALE TO BE STABILIZED WITH EROSION CONTROL BLANKETS UNTIL STABILIZED, AS NECESSARY. BLANKETS MUST BIODEGRADE WITHIN ONE YEAR OF PLACEMENT.
2. BOTTOM OF SWALE TO BE LINED WITH EITHER 6 INCHES OF CLAY, OR SILT LOAM OR FINER MATERIAL TO PREVENT DRAWDOWN AND PROMOTE WETLAND VEGETATION GROWTH. BENTONITE OR POLYVINYL LINERS MAY ALSO BE USED (SEE BELOW)
3. USE COMMERCIALLY AVAILABLE WETLAND SEED MIX AT THE BOTTOM OF SWALES (NEW ENGLAND WETLAND PLANTS, INC, "WETMIX" OR APPROVED EQUIVALENT) APPLIED AT A RATE OF 1 POUND OF SEED PER 2500 S.F. OF BOTTOM AREA.

WATER QUALITY SWALE #1 (WET SWALE) CROSS-SECTION

NOT TO SCALE



NOTES:
1. SWALE TO BE STABILIZED WITH EROSION CONTROL BLANKETS UNTIL STABILIZED, AS NECESSARY. BLANKETS MUST BIODEGRADE WITHIN ONE YEAR OF PLACEMENT.
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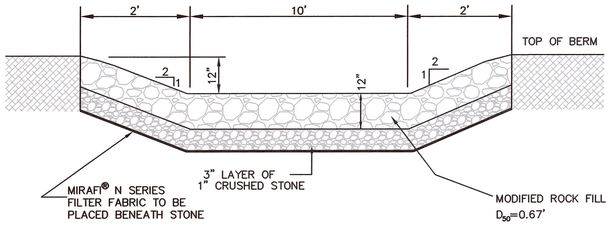
WATER QUALITY SWALE #2 (WET SWALE) CROSS-SECTION

NOT TO SCALE



EMERGENCY SPILLWAY

NOT TO SCALE

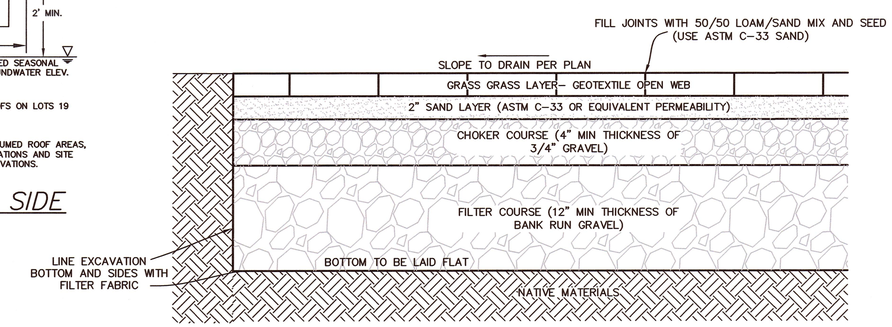
SPILLWAY NOTES:

1. A WELL GRADED MIXTURE OF ROCK SIZES SHALL BE USED FOR THE STONE. FIFTY PERCENT BY WEIGHT OF THE STONE MIXTURE SHALL BE SMALLER THEN THE MEDIAN SIZE STONE (d50). THE LARGEST STONE SIZE IN THE MIXTURE SHALL BE 1.5 TIMES THE d50 SIZE (12").

2. STONES FOR RIP RAP SHALL BE ANGULAR OR SUBANGULAR. THE STONES SHALL BE SHAPED SO THAT THE LEAST DIMENSION OF THE STONE FRAGMENT SHALL NOT BE LESS THAN ONE- THIRD OF THE GREATEST DIMENSION OF THE FRAGMENT. FLAT ROCKS SHALL NOT BE USED FOR RIP RAP.

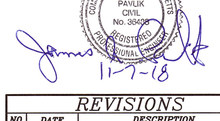
3. STONE FOR THE RIP RAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT DISPLACEMENT OF THE UNDERLYING MATERIALS. HAND PLACEMENT MAY BE REQUIRED TO PREVENT DAMAGE TO ANY PERMANENT STRUCTURES.

4. VOIDS IN THE ROCK RIP RAP SHOULD BE FILLED WITH SPALLS AND SMALLER ROCKS.



TYPICAL GRASSCRETE CROSS-SECTION @ BUS SHELTERS

NOT TO SCALE



REVISIONS

NO.	DATE	DESCRIPTION

OWNERS

WICKETT DEVELOPMENT COMPANY, INC.
38746 CLINTON AVENUE DADE CITY, FL 33525
DD. BK. 13071, PAGE 203
PL. NO. 229 OF 2003, PL. BK. 507 (PARCEL A)
ASSESSORS PARCEL ID 8-016
DD. BK. 22145, PG. 113 (LOTS 8, 10, 12 & 14)
DD. BK. 22145, PG. 114 (LOTS 7, 9, 11, 13 & 15)
PLAN NO. 80 & 81 OF 1967, PL. BK. 222
ASSESSORS PARCEL ID 9-058

HENRY L. WICKETT
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DD. BK 9742, PG. 202
ASSESSORS PARCEL ID 8-019
DD. BK. 32754, PAGE 363
ASSESSORS PARCEL ID 8-020

HENRY L. WICKETT & HENRY L. WICKETT JR.
38746 CLINTON AVENUE DADE CITY, FL 33525
DD. BK. 6607, PG. 537
PORTION OF PL. NO. 97 OF 2012, PL. BK. 615
ASSESSORS PARCEL ID 14-005

NOVUS HOMES LLC
135 MAIN STREET, SUITE 5, MEDWAY MA, 02053
DD. BK. 32449, PG. 424
PL. NO. 666-C OF 9 OF 1972, PL. BK. 232 (LOT 214)
A PORTION OF ASSESSORS PARCEL ID 14-020

TIMBER CREST ESTATES LLC
C/O MOUNIR TAYARA
135 MAIN STREET, SUITE 5, MEDWAY MA 02053
DD. BK. 34358, PG. 264
PL. NO. 1103 OF 1950, PL. BK. 2945, PG. 230
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DD. BK. 32841, PG. 560
PL. NO. 75 OF 2015, PL. BK. 636
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SUSAN J. PAVLIK, NANCY P RUSSELL, JAMES A. PAVLIK & THOMAS F. PAVLIK
19 CENTER STREET MEDWAY, MA 02053
DD. BK. 24701, PG. 7
PL. NO. 388 OF 1995, PL. BK. 431
ASSESSORS PARCEL ID 15-019

JOHN C. SIMCOX & KATHLEEN R. SIMCOX, TRUSTEES OF THE SIMCOX FAMILY TRUST
11 OHLSON CIRCLE, MEDWAY, MA 02053
DD. BK. 29614, PG. 283
PL. NO. 666-A OF 9 OF 1972, PL. BK. 232 (LOT 213)
A PORTION OF ASSESSORS PARCEL ID 14-021

APPLICANT

TIMBER CREST ESTATES LLC
C/O MOUNIR TAYARA
135 MAIN STREET, SUITE 5
MEDWAY MA, 02053

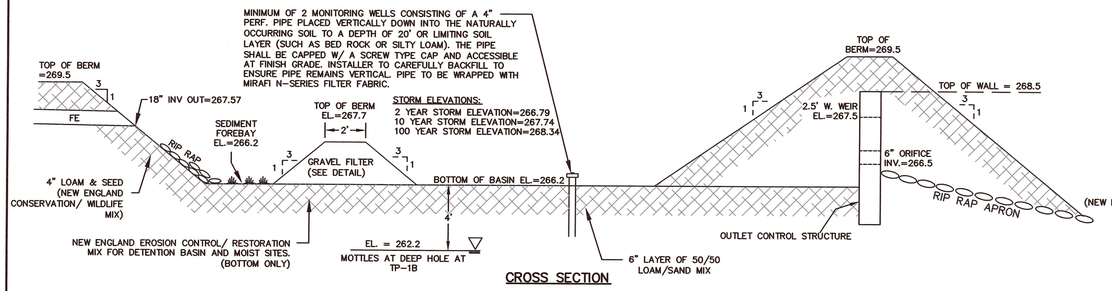
FINAL SUBMITTAL DETAIL SHEET "TIMBER CREST ESTATES" OFF WINTHROP STREET, OHLSON CIRCLE FAIRWAY LANE & FERN PATH IN MEDWAY MASSACHUSETTS

Outback Engineering Incorporated
165 EAST GROVE STREET
MIDDLEBOROUGH, MA 02346
TEL: (508)-946-9231
FAX: (508)-947-8873
www.outback-eng.com

DATE: NOVEMBER 6, 2018

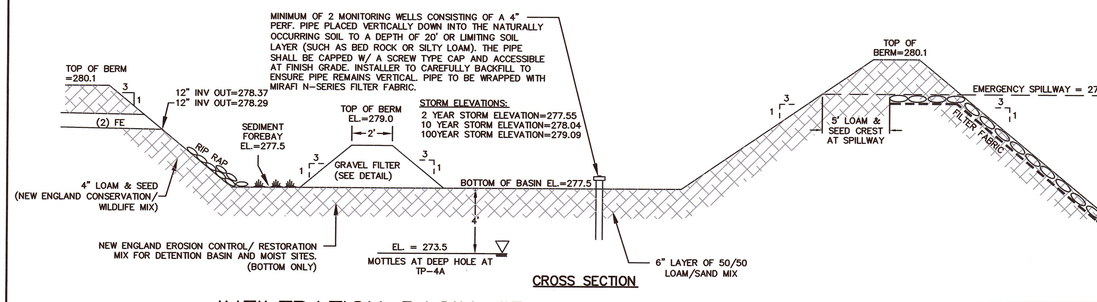
DRAWN BY: CJV	CHECKED BY: JAP
NOT TO SCALE	SHEET 43 OF 50

OE-2765



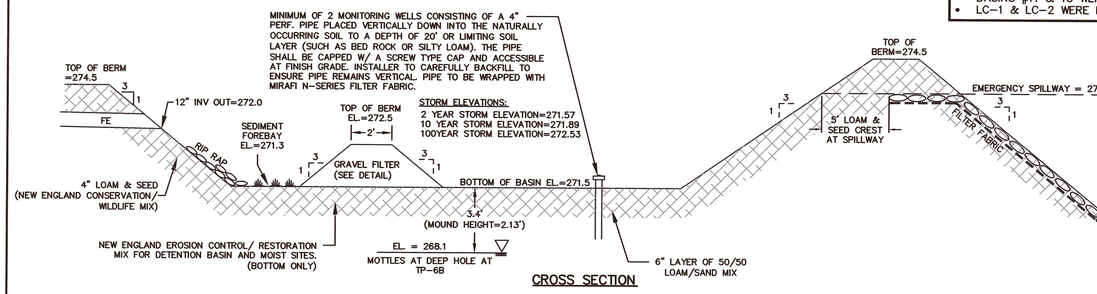
INFILTRATION BASIN #1 AND OUTLET CONTROL STRUCTURE

EXISTING TOP, SUBSOIL, AND ANY UNSUITABLE SOILS BENEATH INFILTRATION BASIN (EXCLUDING SEDIMENT FOREBAY AND OVERFLOW BASIN) TO BE REMOVED TO A DEPTH OF NATURALLY OCCURRING PERVIOUS SOIL AND REPLACED WITH CLEAN WASHED SAND TO THE DEPTH REQUIRED. DESIGN ENGINEER AND PLANNING DEPARTMENT REPRESENTATIVE TO INSPECT OPEN HOLE PRIOR TO PLACEMENT OF SAND.



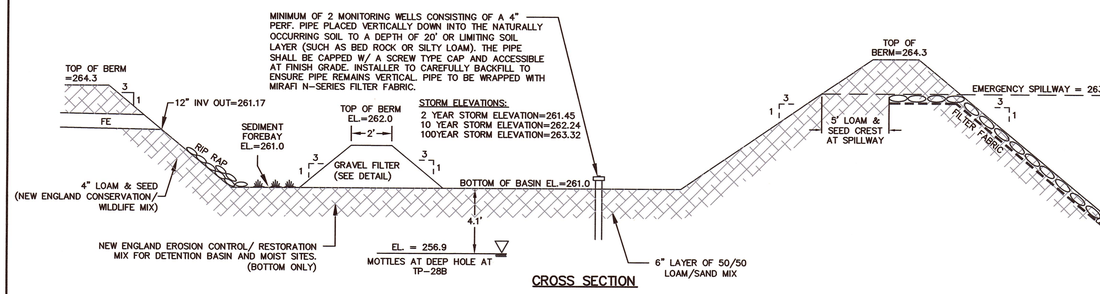
INFILTRATION BASIN #3

EXISTING TOP, SUBSOIL, AND ANY UNSUITABLE SOILS BENEATH INFILTRATION BASIN (EXCLUDING SEDIMENT FOREBAY AND OVERFLOW BASIN) TO BE REMOVED TO A DEPTH OF NATURALLY OCCURRING PERVIOUS SOIL AND REPLACED WITH CLEAN WASHED SAND TO THE DEPTH REQUIRED. DESIGN ENGINEER AND PLANNING DEPARTMENT REPRESENTATIVE TO INSPECT OPEN HOLE PRIOR TO PLACEMENT OF SAND.



INFILTRATION BASIN #5

EXISTING TOP, SUBSOIL, AND ANY UNSUITABLE SOILS BENEATH INFILTRATION BASIN (EXCLUDING SEDIMENT FOREBAY AND OVERFLOW BASIN) TO BE REMOVED TO A DEPTH OF NATURALLY OCCURRING PERVIOUS SOIL AND REPLACED WITH CLEAN WASHED SAND TO THE DEPTH REQUIRED. DESIGN ENGINEER AND PLANNING DEPARTMENT REPRESENTATIVE TO INSPECT OPEN HOLE PRIOR TO PLACEMENT OF SAND.

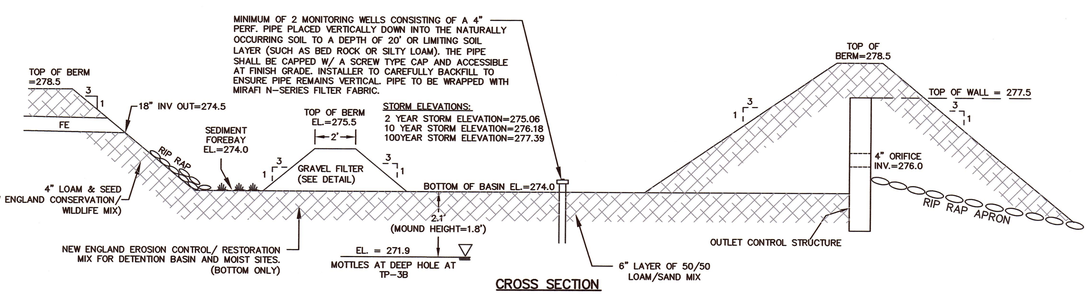


INFILTRATION BASIN #7

EXISTING TOP, SUBSOIL, AND ANY UNSUITABLE SOILS BENEATH INFILTRATION BASIN (EXCLUDING SEDIMENT FOREBAY AND OVERFLOW BASIN) TO BE REMOVED TO A DEPTH OF NATURALLY OCCURRING PERVIOUS SOIL AND REPLACED WITH CLEAN WASHED SAND TO THE DEPTH REQUIRED. DESIGN ENGINEER AND PLANNING DEPARTMENT REPRESENTATIVE TO INSPECT OPEN HOLE PRIOR TO PLACEMENT OF SAND.

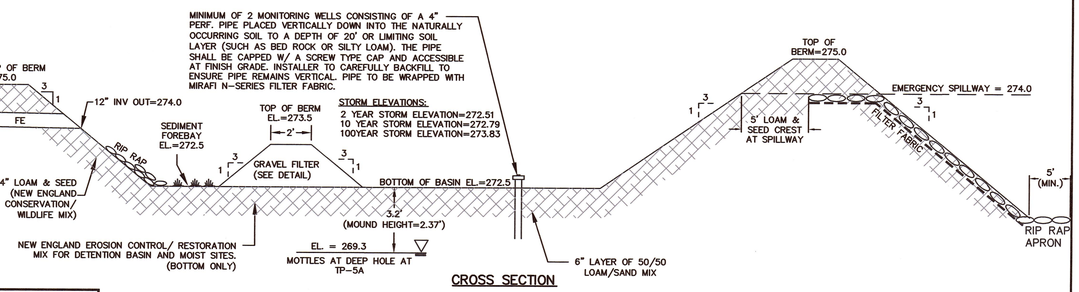
NOTES

- PER STORMWATER MANAGEMENT REGULATIONS, GROUNDWATER MOUNDING HEIGHTS WERE CALCULATED FOR ALL INFILTRATION BMP'S WITH LESS THAN 4' SEPARATION TO GROUNDWATER. SEE FINAL DRAINAGE REPORT FOR TIMBER CREST ESTATES DATED 9-7-17, REVISED THRU 8-14-18.
- BASINS #11 & 13 WERE NOT USED
- LC-1 & LC-2 WERE NOT USED



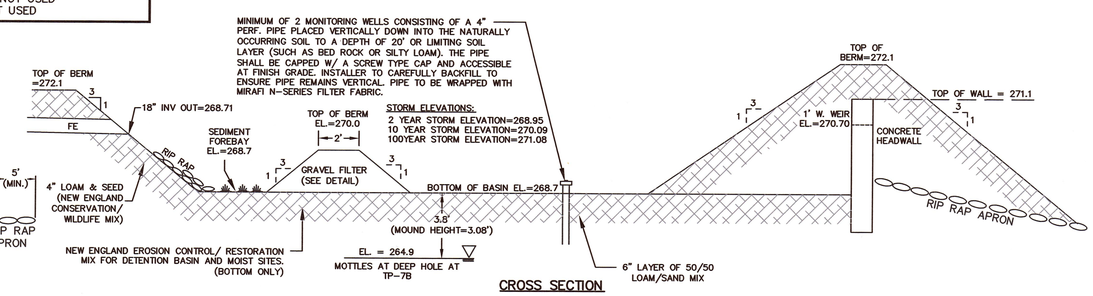
INFILTRATION BASIN #2 AND OUTLET CONTROL STRUCTURE

EXISTING TOP, SUBSOIL, AND ANY UNSUITABLE SOILS BENEATH INFILTRATION BASIN (EXCLUDING SEDIMENT FOREBAY AND OVERFLOW BASIN) TO BE REMOVED TO A DEPTH OF NATURALLY OCCURRING PERVIOUS SOIL AND REPLACED WITH CLEAN WASHED SAND TO THE DEPTH REQUIRED. DESIGN ENGINEER AND PLANNING DEPARTMENT REPRESENTATIVE TO INSPECT OPEN HOLE PRIOR TO PLACEMENT OF SAND.



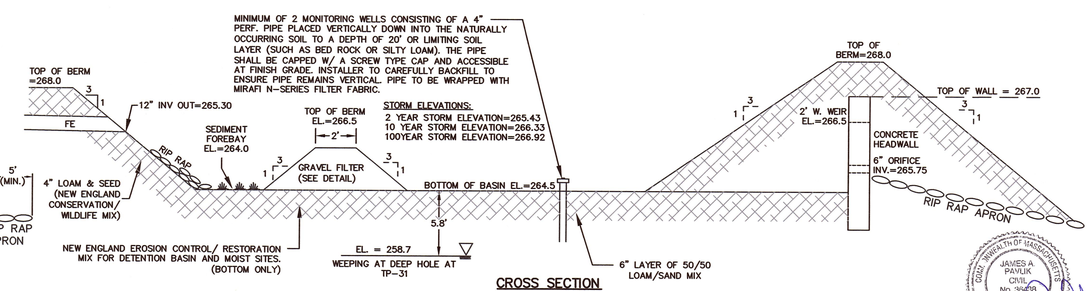
INFILTRATION BASIN #4

EXISTING TOP, SUBSOIL, AND ANY UNSUITABLE SOILS BENEATH INFILTRATION BASIN (EXCLUDING SEDIMENT FOREBAY AND OVERFLOW BASIN) TO BE REMOVED TO A DEPTH OF NATURALLY OCCURRING PERVIOUS SOIL AND REPLACED WITH CLEAN WASHED SAND TO THE DEPTH REQUIRED. DESIGN ENGINEER AND PLANNING DEPARTMENT REPRESENTATIVE TO INSPECT OPEN HOLE PRIOR TO PLACEMENT OF SAND.



INFILTRATION BASIN #6

EXISTING TOP, SUBSOIL, AND ANY UNSUITABLE SOILS BENEATH INFILTRATION BASIN (EXCLUDING SEDIMENT FOREBAY AND OVERFLOW BASIN) TO BE REMOVED TO A DEPTH OF NATURALLY OCCURRING PERVIOUS SOIL AND REPLACED WITH CLEAN WASHED SAND TO THE DEPTH REQUIRED. DESIGN ENGINEER AND PLANNING DEPARTMENT REPRESENTATIVE TO INSPECT OPEN HOLE PRIOR TO PLACEMENT OF SAND.



INFILTRATION BASIN #8

EXISTING TOP, SUBSOIL, AND ANY UNSUITABLE SOILS BENEATH INFILTRATION BASIN (EXCLUDING SEDIMENT FOREBAY AND OVERFLOW BASIN) TO BE REMOVED TO A DEPTH OF NATURALLY OCCURRING PERVIOUS SOIL AND REPLACED WITH CLEAN WASHED SAND TO THE DEPTH REQUIRED. DESIGN ENGINEER AND PLANNING DEPARTMENT REPRESENTATIVE TO INSPECT OPEN HOLE PRIOR TO PLACEMENT OF SAND.

REVISIONS		
NO.	DATE	DESCRIPTION

OWNERS

WICKETT DEVELOPMENT COMPANY, INC.
38746 CLINTON AVENUE DADE CITY, FL 33525
DD. BK. 13071, PAGE 203
PL. NO. 229 OF 2003, PL. BK. 507 (PARCEL A)
ASSESSORS PARCEL ID 8-016
DD. BK. 22145, PG. 113 (LOTS 8, 10, 12 & 14)
DD. BK. 22145, PG. 114 (LOTS 7, 9, 11, 13 & 15)
PLAN NO. 80 & 81 OF 1967, PL. BK. 222
ASSESSORS PARCEL ID 9-058

HENRY L. WICKETT
38746 CLINTON AVENUE, DADE CITY, FL 33525
DD. BK 9742, PG. 202
ASSESSORS PARCEL ID 8-019
DD. BK. 32754, PAGE 363
ASSESSORS PARCEL ID 8-020

HENRY L. WICKETT & HENRY L. WICKETT JR.
38746 CLINTON AVENUE DADE CITY, FL 33525
DD. BK. 6607, PG. 537
PORTION OF PL. NO. 97 OF 2012, PL. BK. 615
ASSESSORS PARCEL ID 14-005

NOVUS HOMES LLC
135 MAIN STREET, SUITE 5, MEDWAY MA, 02053
DD. BK. 32449, PG. 424
PL. NO. 666-C OF 9 OF 1972, PL. BK. 232 (LOT 214)
A PORTION OF ASSESSORS PARCEL ID 14-020

TIMBER CREST ESTATES LLC
C/O MOUNIR TAYARA
135 MAIN STREET, SUITE 5, MEDWAY MA 02053
DD. BK. 34358, PG. 264
PL. NO. 1103 OF 1950, PL. BK. 2945, PG. 230
ASSESSORS PARCEL ID 9-051
DD. BK. 32841, PG. 560
PL. NO. 75 OF 2015, PL. BK. 636
ASSESSORS PARCEL ID 15-001

SUSAN J. PAVLIK, NANCY P RUSSELL, JAMES A. PAVLIK & THOMAS F. PAVLIK
134 HOLLISTON STREET MEDWAY, MA 02053
DD. BK. 24701, PG. 7
PL. NO. 388 OF 1995, PL. BK. 431
ASSESSORS PARCEL ID 15-019

JOHN C. SIMCOX & KATHLEEN R. SIMCOX, TRUSTEES OF THE SIMCOX FAMILY TRUST
11 OHLSON CIRCLE, MEDWAY, MA 02053
DD. BK. 29614, PG. 283
PL. NO. 666-A OF 9 OF 1972, PL. BK. 232 (LOT 213)
A PORTION OF ASSESSORS PARCEL ID 14-021

APPLICANT

TIMBER CREST ESTATES LLC
C/O MOUNIR TAYARA
135 MAIN STREET, SUITE 5
MEDWAY MA, 02053

FINAL SUBMITTAL DETAIL SHEET "TIMBER CREST ESTATES" OFF WINTHROP STREET, OHLSON CIRCLE FAIRWAY LANE & FERN PATH IN MEDWAY MASSACHUSETTS

Outback Engineering Incorporated
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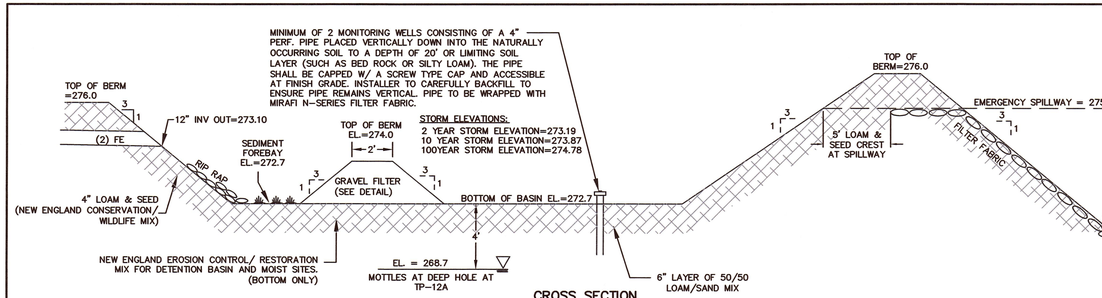
COMMONWEALTH OF MASSACHUSETTS
JAMES A. PAVLIK
CIVIL
No. 36499
REGISTERED PROFESSIONAL ENGINEER

James A. Pavlik
11-7-18

DATE: NOVEMBER 6, 2018	
DRAWN BY: CJV	CHECKED BY: JAP
NOT TO SCALE	SHEET 44 OF 50

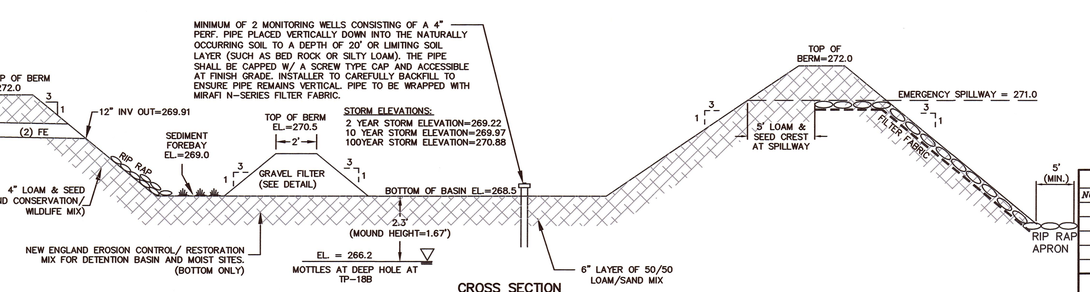
OE-2765

2:\Land Projects 2004\OE-2765-Medway\DWG\FINAL PLANS -LOT SHEETS\Current Dwl Sheets\OE2765 Dwl Sheets-Details (24-42-50) REV 5.3.18.dwg



INFILTRATION BASIN #9

EXISTING TOP, SUBSOIL, AND ANY UNSUITABLE SOILS BENEATH INFILTRATION BASIN (EXCLUDING SEDIMENT FOREBAY AND OVERFLOW BASIN) TO BE REMOVED TO A DEPTH OF NATURALLY OCCURRING PERVIOUS SOIL AND REPLACED WITH CLEAN WASHED SAND TO THE DEPTH REQUIRED. DESIGN ENGINEER AND PLANNING DEPARTMENT REPRESENTATIVE TO INSPECT OPEN HOLE PRIOR TO PLACEMENT OF SAND.



INFILTRATION BASIN #12

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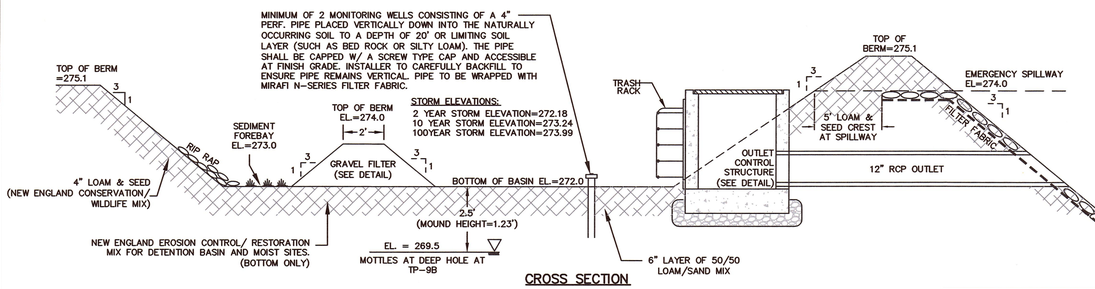
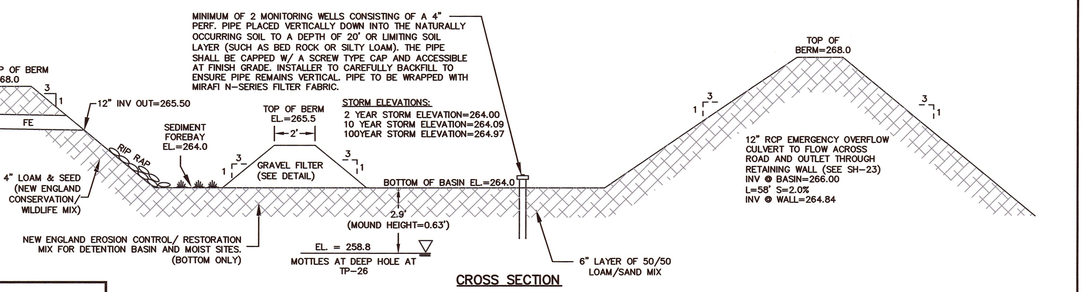


INFILTRATION BASIN #14

EXISTING TOP, SUBSOIL, AND ANY UNSUITABLE SOILS BENEATH INFILTRATION BASIN (EXCLUDING SEDIMENT FOREBAY AND OVERFLOW BASIN) TO BE REMOVED TO A DEPTH OF NATURALLY OCCURRING PERVIOUS SOIL AND REPLACED WITH CLEAN WASHED SAND TO THE DEPTH REQUIRED. DESIGN ENGINEER AND PLANNING DEPARTMENT REPRESENTATIVE TO INSPECT OPEN HOLE PRIOR TO PLACEMENT OF SAND.

NOTES

- PER STORMWATER MANAGEMENT REGULATIONS, GROUNDWATER MOUNDING HEIGHTS WERE CALCULATED FOR ALL INFILTRATION BMP'S WITH LESS THAN 4' SEPARATION TO GROUNDWATER. SEE FINAL DRAINAGE REPORT FOR TIMBER CREST ESTATES DATED 9-7-17, REVISED THRU 8-14-18.
- BASINS #11 & 13 WERE NOT USED
- LC-1 & LC-2 WERE NOT USED



INFILTRATION BASIN #15

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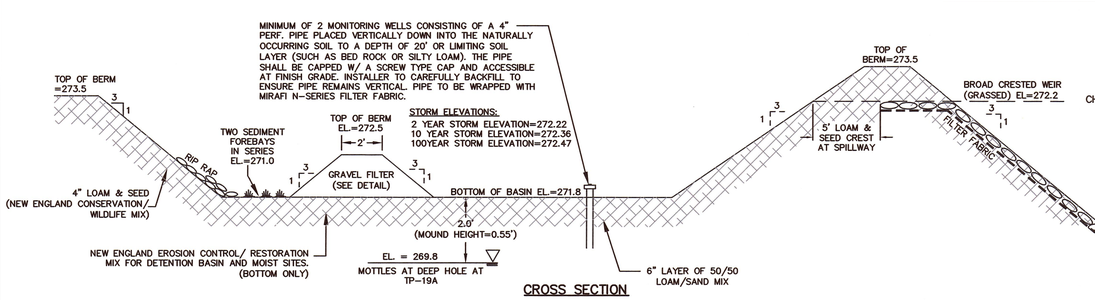
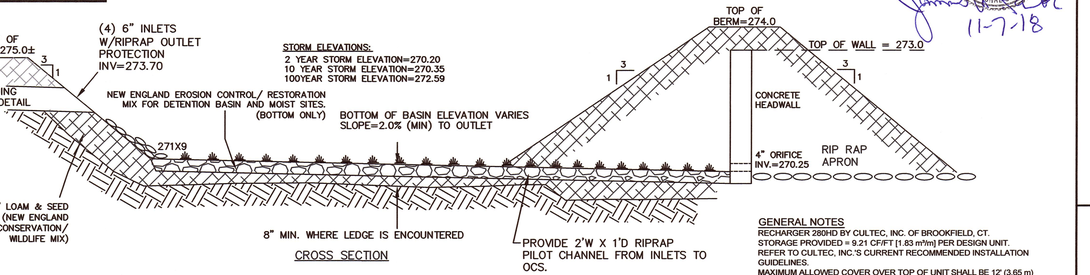


INFILTRATION BASIN #16

EXISTING TOP, SUBSOIL, AND ANY UNSUITABLE SOILS BENEATH INFILTRATION BASIN (EXCLUDING SEDIMENT FOREBAY AND OVERFLOW BASIN) TO BE REMOVED TO A DEPTH OF NATURALLY OCCURRING PERVIOUS SOIL AND REPLACED WITH CLEAN WASHED SAND TO THE DEPTH REQUIRED. DESIGN ENGINEER AND PLANNING DEPARTMENT REPRESENTATIVE TO INSPECT OPEN HOLE PRIOR TO PLACEMENT OF SAND.

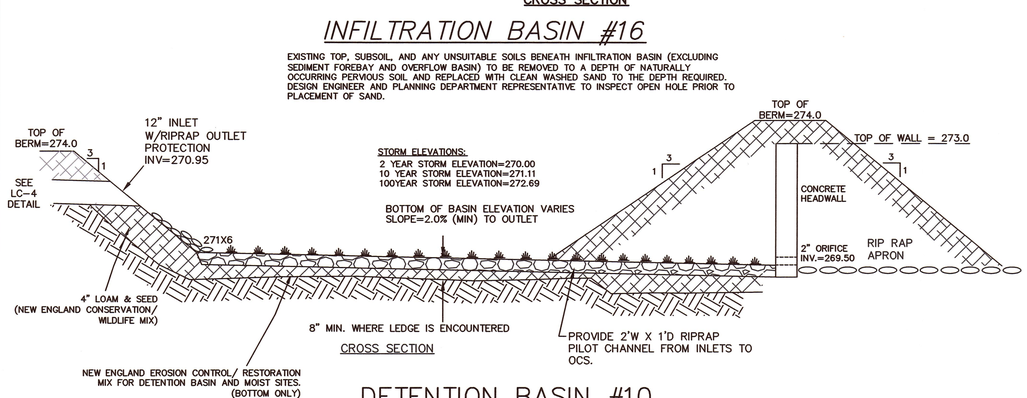


DETENTION BASIN #8A

NOT TO SCALE

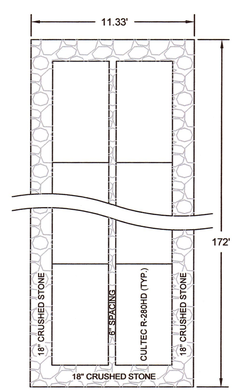
GENERAL NOTES

RECHARGER 280HD BY CULTEC, INC. OF BROOKFIELD, CT.
STORAGE PROVIDED = 9.21 CF/FT [1.83 m³/m] PER DESIGN UNIT.
REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES.
MAXIMUM ALLOWED COVER OVER TOP OF UNIT SHALL BE 12' (3.65 m)
THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
ALL RECHARGER 280HD HEAVY DUTY UNITS ARE MARKED WITH A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
ALL RECHARGER 280HD CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.



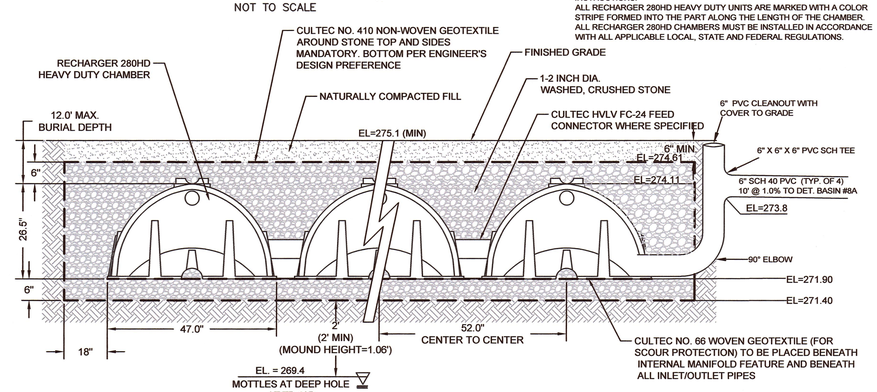
DETENTION BASIN #10

NOT TO SCALE



PLAN VIEW

BED CONFIGURATION
2 ROWS OF 24 CHAMBERS WITH 18" STONE SURROUND
OVERALL DIMENSIONS: 11.33'W X 172'L X 3.21'H



CROSS SECTION

LEACHING CHAMBER BED 3 DETAIL

NOT TO SCALE

COMMONWEALTH OF MASSACHUSETTS
JAMES A. PAVLIK
CIVIL
No. 36558
REGISTERED PROFESSIONAL ENGINEER
11-7-18

REVISIONS

NO.	DATE	DESCRIPTION

OWNERS

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38746 CLINTON AVENUE DADE CITY, FL 33525
DD. BK. 6607, PG. 537
PORTION OF PL. NO. 97 OF 2012, PL. BK. 615
ASSESSORS PARCEL ID 14-005

NOVUS HOMES LLC
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19 CENTER STREET MEDWAY, MA 02053
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PL. NO. 388 OF 1995, PL. BK. 431
ASSESSORS PARCEL ID 15-019

JOHN C. SIMCOX & KATHLEEN R. SIMCOX, TRUSTEES OF THE SIMCOX FAMILY TRUST
11 OHLSON CIRCLE, MEDWAY, MA 02053
DD. BK. 29614, PG. 283
PL. NO. 666-A OF 9 OF 1972, PL. BK. 232 (LOT 213)
A PORTION OF ASSESSORS PARCEL ID 14-021

APPLICANT

TIMBER CREST ESTATES LLC
C/O MOUNIR TAYARA
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MEDWAY MA, 02053

FINAL SUBMITTAL DETAIL SHEET "TIMBER CREST ESTATES" OFF WINTHROP STREET, OHLSON CIRCLE FAIRWAY LANE & FERN PATH IN MEDWAY MASSACHUSETTS

Outback Engineering Incorporated
165 EAST GROVE STREET
MIDDLEBOROUGH, MA 02346
TEL: (508)-946-9231
FAX: (508)-947-8873
www.outback-eng.com

DATE: NOVEMBER 6, 2018	
DRAWN BY: CJV	CHECKED BY: JAP
NOT TO SCALE	SHEET 45 OF 50

OE-2765

Z:\Land Projects 2004\OE-2765-Wickett\DWG\Final PLANS -CUT SHEETS\Current Cut Sheets\OE2765 Cut Sheets-Details (SH 42-50) REV 3.3.18.dwg

CONSTRUCTION SPECIFICATIONS FOR BIORETENTION SYSTEMS

1. MATERIAL SPECIFICATIONS
THE ALLOWABLE MATERIALS TO BE USED IN BIORETENTION AREAS ARE DETAILED IN TABLE 1.

PARAMETER	SPECIFICATION	NOTES
PLANTING SOILS	SAND 80% SILT 15–20% CLAY 0–5%	USDA SOIL TYPES LOAMY SANDS OR SANDY LOAM
COMPOST	APPROVED NATURAL COMPOST	
MULCH	DOUBLE SHREDDED HARDWOOD	AGED SIX (6) MONTHS MINIMUM
FILTER FABRIC	MIRAFI 140N	OR APPROVED EQUIVALENT

2. PLANTING SOILS
THE SOIL SHOULD BE A UNIFORM MIX, FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN 2 INCHES. NO OTHER MATERIALS OR SUBSTANCES SHOULD BE MIXED OR DUMPED WITHIN THE BIORETENTION AREA THAT MAY BE HARMFUL TO PLANT GROWTH, OR PROVE A HINDRANCE TO THE PLANTING OR MAINTENANCE OPERATIONS. THE PLANTING SOIL SHOULD BE FREE OF NOXIOUS WEEDS.

THE BIORETENTION SYSTEM SHALL UTILIZE PLANTING SOIL HAVING A COMPOSITION AS SHOWN IN TABLE 1. THE BIORETENTION APPLICATIONS WITH A PLANTING SOIL DEPTH OF 12 INCHES, OR LESS, ADD 20% (BY VOLUME) OF WELL AGED (6–12 MONTHS), WELL AERATED, LEAF COMPOST (OR APPROVED EQUIVALENT) TO THE ABOVE PLANTING SOIL MIXTURE.

THE PLANTING SOIL SHOULD BE TESTED AND SHOULD MEET THE FOLLOWING CRITERIA:
PH RANGE 5.2–7.0
ORGANIC MATTER 1.5–4%
MAGNESIUM 35 LB/AC
PHOSPHORUS P205 75 LB/AC
POTASSIUM K20 85 LB/AC
SOLUBLE SALTS NOT TO EXCEED 500 PPM

ALL BIORETENTION AREAS SHOULD HAVE A MINIMUM OF ONE TEST. EACH TEST SHOULD CONSIST OF BOTH THE STANDARD SOIL TEST FOR PH, PHOSPHORUS, AND POTASSIUM AND ADDITIONAL TESTS OF ORGANIC MATTER, AND SOLUBLE SALTS. A TEXTURAL ANALYSIS IS REQUIRED FROM THE SITE'S STOCKPILED TOPSOIL. IF TOPSOIL IS IMPORTED, THEN A TEXTURE ANALYSIS SHOULD BE PERFORMED FOR EACH LOCATION WHERE THE TOP SOIL IS EXCAVATED.

SINCE DIFFERENT LABS CALIBRATE THEIR EXISTING EQUIPMENT DIFFERENTLY, ALL TESTING RESULTS SHOULD COME FROM THE SAME TESTING FACILITY.

SHOULD THE PH FALL OUT OF THE ACCEPTABLE RANGE, IT MAY BE MODIFIED (HIGHER) WITH LIME OR (LOWER) WITH IRON SULFATE PLUS SULFUR.

3. MULCH LAYER SPECIFICATIONS
MULCH AROUND INDIVIDUAL PLANTS ONLY. SHREDDED HARDWOOD MULCH IS THE ONLY ACCEPTED MULCH. PINE MULCH AND WOOD CHIPS WILL FLOAT AND MOVE TO PERIMETER OF THE BIORETENTION AREA DURING A STORM EVENT AND ARE NOT ACCEPTABLE.

DOUBLE SHREDDED MULCH MUST BE WELL AGED (6–12 MONTHS) FOR ACCEPTANCE.

MIX APPROPRIATELY HALF OF THE SPECIFIED MULCH LAYER INTO THE PLANTING SOIL TO A DEPTH OF APPROXIMATELY 4 INCHES TO HELP FOSTER A HIGHLY ORGANIC SURFACE LAYER.

4. COMPACTION
IT IS VERY IMPORTANT TO MINIMIZE COMPACTION OF BOTH THE BASE OF THE BIORETENTION AREA AND THE REQUIRED BACKFILL. WHEN POSSIBLE, USE EXCAVATION HOES TO REMOVE ORIGINAL SOIL IF BIORETENTION AREA IS EXCAVATED USING A LOADER, THE CONTRACTOR SHOULD USE WIDE TRACK OR MARSH TRACK EQUIPMENT, OR LIGHT EQUIPMENT WITH TURF TYPE TIRES. USE OF EQUIPMENT WITH NARROW TRACKS OR NARROW TIRES, RUBBER TIRES WITH LARGE LUGS, OR HIGH PRESSURE TIRES WILL CAUSE EXCESSIVE COMPACTION RESULTING IN REDUCED INFILTRATION RATES AND STORAGE VOLUMES AND IS NOT ACCEPTABLE. COMPACTION WILL SIGNIFICANTLY CONTRIBUTE TO DESIGN FAILURE.

COMPACTION CAN BE ALLEVIATED AT THE BASE OF THE BIORETENTION FACILITY BY USING A PRIMARY TILLING OPERATION SUCH AS A CHISEL PLOW, RIPPER, OR SUBSOILER. THESE TILLING OPERATIONS ARE TO REFRACTURE THE SOIL PROFILE THROUGH THE 12 INCH COMPACTION ZONE. SUBSTITUTE METHODS MUST BE APPROVED BY THE ENGINEER, ROTOTILLERS TYPICALLY DO NOT TILL DEEP ENOUGH TO REDUCE THE EFFECTS OF COMPACTION FROM HEAVY EQUIPMENT.

WHEN BACKFILLING THE BIORETENTION FACILITY, PLACE SOIL IN LIFTS OF 12 INCHES OR GREATER. DO NOT USE HEAVY EQUIPMENT WITHIN THE BIORETENTION AREA. HEAVY EQUIPMENT CAN BE USED AROUND THE PERIMETER OF THE BASIN TO SUPPLY SOILS AND SANDS. GRADE BIORETENTION MATERIALS WITH LIGHT EQUIPMENT SUCH AS A COMPACT LOADER OR A DOZER/LOADER WITH MARSH TRACKS.

5. PLANT INSTALLATION
THE PLANT ROOT BALL SHOULD BE PLANTED SO 1/8TH OF THE BALL IS ABOVE FINAL GRADE SURFACE. ROOT STOCK OF THE PLANT MATERIAL SHOULD BE KEPT MOIST DURING TRANSPORT AND ON-SITE STORAGE. THE DIAMETER OF THE PLANTING PIT SHOULD BE AT LEAST 6 INCHES LARGER THAN THE DIAMETER OF THE PLANTING BALL. SET AND MAINTAIN THE PLANT STRAIGHT DURING THE ENTIRE PLANTING PROCESS. THOROUGHLY WATER GROUND BED COVER AFTER INSTALLATION.

GRASSES AND LEGUME SEED SHOULD BE TILLED INTO THE SOIL TO A DEPTH OF AT LEAST ONE INCH. GRASS AND LEGUME PLUGS SHOULD BE PLANTED FOLLOWING THE NON-GRASS GROUND COVER PLANTING SPECIFICATIONS.

THE PLANTING SOIL SPECIFICATIONS PROVIDE ENOUGH ORGANIC MATERIAL TO ADEQUATELY SUPPLY NUTRIENTS FROM THE NATURAL CYCLING. THE PRIMARY FUNCTION OF THE BIORETENTION STRUCTURE IS TO IMPROVE WATER QUALITY. ADDING FERTILIZERS DEFEATS, OR AT A MINIMUM, IMPEDES THIS GOAL. ONLY ADD FERTILIZER IF COMPOST OR MULCH IS USED TO AMEND THE SOIL. ROTOTILL AREA FERTILIZER AT A RATE OF 2 LB/ 1,000 S.F..

6. MISCELLANEOUS
A. THE BIORETENTION FACILITY SHALL BE PROTECTED WITH SEDIMENT CONTROL DEVICES AS SHOWN IN THE EROSION & SEDIMENT CONTROL PLANS AND SHALL REMAIN OFFLINE AND INOPERATIONAL UNTIL ALL VEGETATION IS ESTABLISHED WITHIN THE BIORETENTION AREA AND THE CONTRIBUTING DRAINAGE AREA IS STABILIZED.
B. THE PURPOSE OF THESE BIORETENTION AREAS IS TO PROVIDE SOME INCREASED RUNOFF WATER QUALITY AND INFILTRATION OF ROOF RUNOFF (FROM UNITS SHOWN) AND LIMITED LAWN AREAS; THESE RAIN GARDENS ARE DESIGNED TO OVERFLOW. THEY ARE NOT DESIGNED TO CONTROL RUNOFF RATES OR VOLUMES, OR FOR TSS REMOVAL CREDIT.

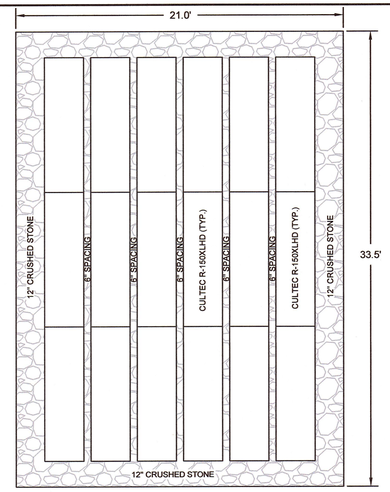
BIORETENTION AREA	BIORETENTION SURFACE ELEVATION	BIORETENTION SURFACE AREA	BOTTOM OF PLANTING SOIL ELEVATION	BOTTOM OF GRAVEL BASE/UNDERDRAIN ELEV.	TREES OR SHRUBS REQ'D (1/50 S.F.)
BIO–1	269.5	1998 S.F.	266.25	265.75	40
BIO–2	275.0	247 S.F.	271.75	271.25	5
BIO–3	275.0	266 S.F.	271.75	271.25	6
BIO–4	265.5	164 S.F.	262.25	261.75	4

SHRUB SPECIES

PLAN SYMBOL	COMMON NAME (SCIENTIFIC NAME)	SIZE & FORM	IND. STATUS	SIZE @ PURCHASE	QUANTITY BIO–1	BIO–2	BIO–3	BIO–4
	HIGHBUSH BLUEBERRY (VACCINIUM CORYMBOSUM)	MED–SIZED SHRUB (6–10')	FACW–	2–3 FEET	14	2	2	2
	SPICE BUSH (LINDERA BEZOIN)	MED–SIZED SHRUB (6–10')	FAC–	2–3 FEET	13	2	2	1
	SILKY DOGWOOD (CORMUS AMOMUM)	MED–SIZED SHRUB	FACW	2–3 FEET	13	1	2	1

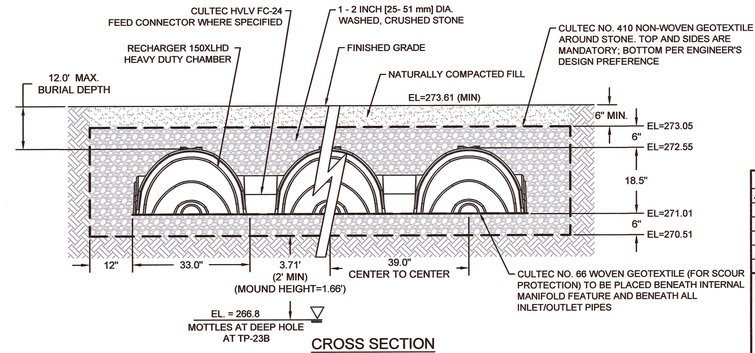
HERBACEOUS SPECIES

PLAN SYMBOL	COMMON NAME (SCIENTIFIC NAME)	SIZE & FORM	IND. STATUS	SIZE @ PURCHASE	QUANTITY BIO–1	BIO–2	BIO–3	BIO–4
	NEW YORK FERN (THELYPTERIS NOVEBORACENSIS)	FLOWER (1–3')	FAC		7	1	1	1
	THREE–SQUARE BULRUSH (SCIRPUS PUNGENS)	FLOWER (1–3')	FACW+		7	1	1	1
	BLACK–EYED SUSAN (RUDBECKIA HIRTA)	FLOWER (1–3')	FAC		7	1	1	1



PLAN VIEW

BED CONFIGURATION
6 ROWS OF 3 CHAMBERS WITH 12" STONE SURROUND
OVERALL DIMENSIONS: 21' W X 33.5' L X 2.54'H



CROSS SECTION

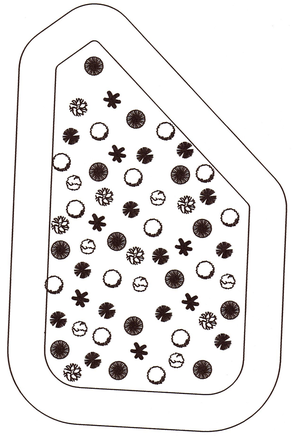
GENERAL NOTES
RECHARGER 150XLHD BY CULTEC, INC. OF BROOKFIELD, CT.
STORAGE PROVIDED = 4.89 CF/FT (0.45 m^3/m) PER DESIGN UNIT.
REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES.
MAXIMUM ALLOWED COVER OVER TOP OF UNIT SHALL BE 12 '(3.65m).
THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.

ALL RECHARGER 150XLHD HEAVY DUTY UNITS ARE MARKED WITH A COLORED STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
ALL RECHARGER 150XLHD CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

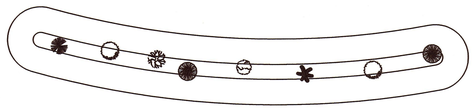
LEACHING CHAMBER BED 4 DETAIL

NOT TO SCALE

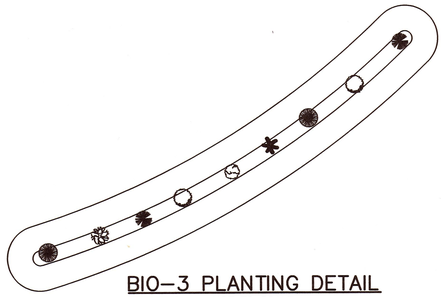
NOTES
- PER STORMWATER MANAGEMENT REGULATIONS, GROUNDWATER MOUNDING HEIGHTS WERE CALCULATED FOR ALL INFILTRATION BMP'S WITH LESS THAN 4' SEPARATION TO GROUNDWATER. SEE FINAL DRAINAGE REPORT FOR TIMBER CREST ESTATES DATED 8/14/18.
- BASINS #11 & 13 WERE NOT USED
- LC–1 & LC–2 WERE NOT USED



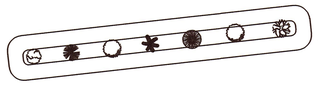
BIO–1 PLANTING DETAIL
NOT TO SCALE



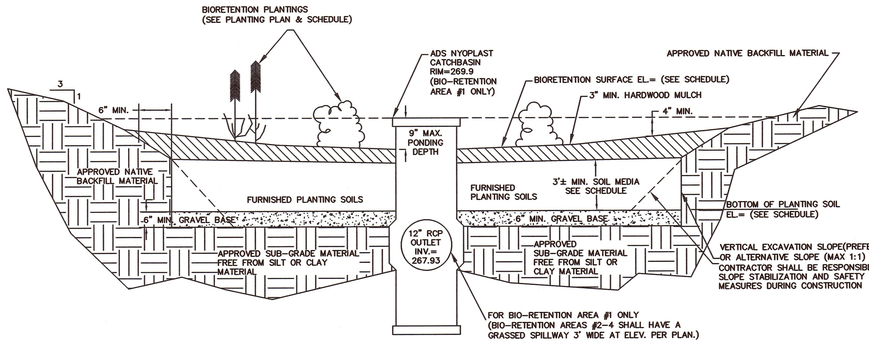
BIO–2 PLANTING DETAIL
NOT TO SCALE



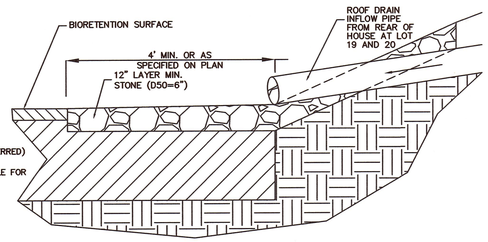
BIO–3 PLANTING DETAIL
NOT TO SCALE



BIO–4 PLANTING DETAIL
NOT TO SCALE



TYPICAL BIORETENTION AREA DETAIL
NOT TO SCALE



TYPICAL ROOF DRAIN INFLOW DETAIL AT BIO–RETENTION AREAS #2 & 3
NOT TO SCALE

COMMONWEALTH OF MASSACHUSETTS
JAMES A. PAVLIK
CIVIL
No. 36468
REGISTERED PROFESSIONAL ENGINEER

11-7-18

REVISIONS		
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OWNERS

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38746 CLINTON AVENUE DADE CITY, FL 33525
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TEL: (508)–946–9231
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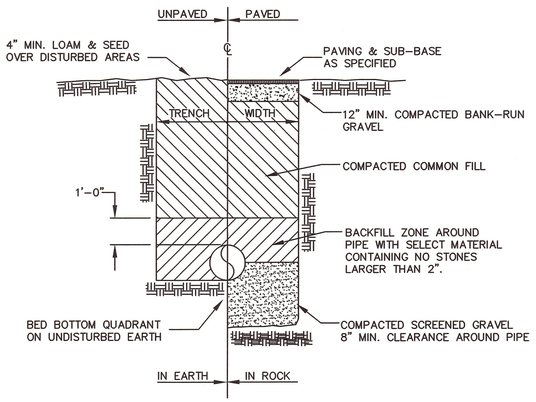
www.outback–eng.com

DATE: NOVEMBER 6, 2018
DRAWN BY: CJV | CHECKED BY: JAP
NOT TO SCALE | SHEET 46 OF 50

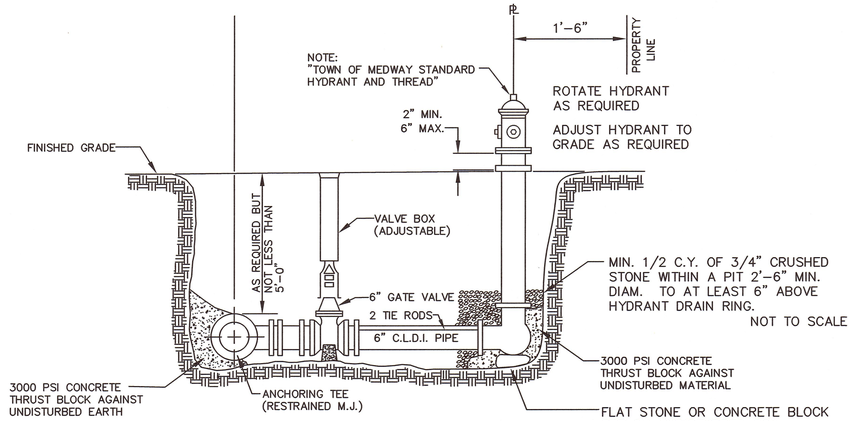
OE–2765

NOTE:
1). TRENCH SHALL BE A MIN. OF 3' IN WIDTH PER TOWN OF MEDWAY STANDARDS.
2). TRENCH SHALL BE 5' MAX. DEPTH FOR STEEP SIDED SECTION
3). TRENCH SHALL BE PROVIDED WITH 6" MIN. CRUSHED STONE BEDDING PER TOWN OF MEDWAY.



WATER TRENCH

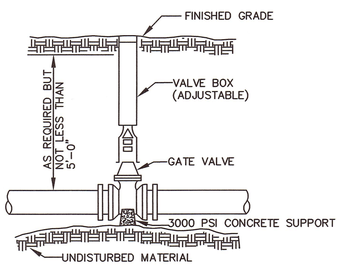
NOT TO SCALE



NOT TO SCALE

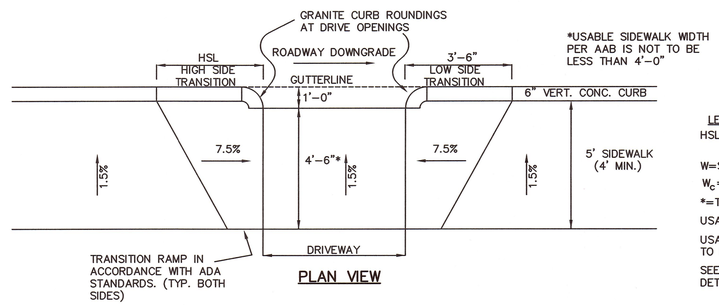
TYPICAL HYDRANT & VALVE

NOT TO SCALE

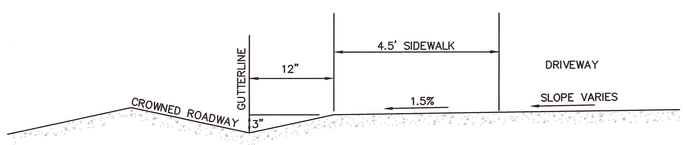


TYPICAL GATE VALVE

NOT TO SCALE



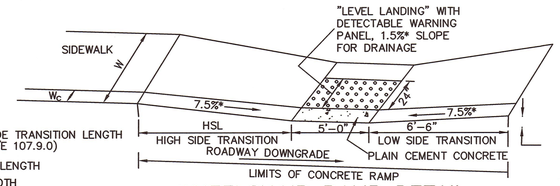
PLAN VIEW



CROSS SECTION

TYPICAL SIDEWALK TO DRIVEWAY TRANSITION

NOT TO SCALE



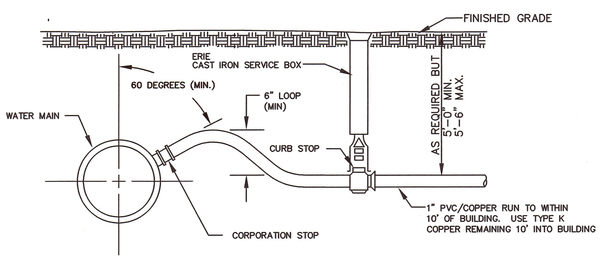
LEGEND
HSL=HIGH SIDE TRANSITION LENGTH (SEE M/E 107.9.0)
W=SIDEWALK LENGTH
W_C=CURB WIDTH
*=TOLERANCE FOR CONSTRUCTION ±0.5%
USABLE SIDEWALK WIDTH PER AAB=W-W_C
USABLE SIDEWALK WIDTH PER AAB IS NOT TO BE LESS THAN 4'-0"
SEE M/E 107.6.5R FOR DETAILS OF DETECTABLE WARNING PANEL

WHEELCHAIR RAMP DETAIL

NOT TO SCALE

ROADWAY PROFILE GRADE		HIGH SIDE TRANSITION LENGTH ROUNDED LENGTH (4")
%	G	ENGLISH UNITS
0	0.00	6'-6"
1	0.01	7'-8"
2	0.02	9'-0"
3	0.03	11'-0"
4	0.04	14'-0"
>4	>0.04	15'-0" (MAX.)

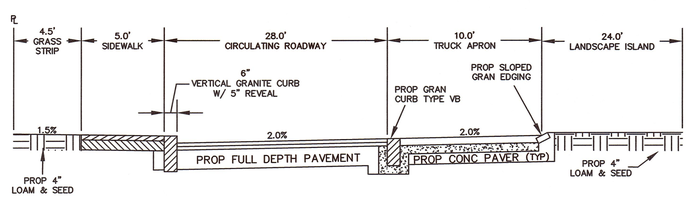
CURB LENGTH TRANSITION LENGTH FOR WHEELCHAIR RAMPS



NOTE: SADDLES ARE REQUIRED FOR TAPS LARGER THAN 1 INCH.

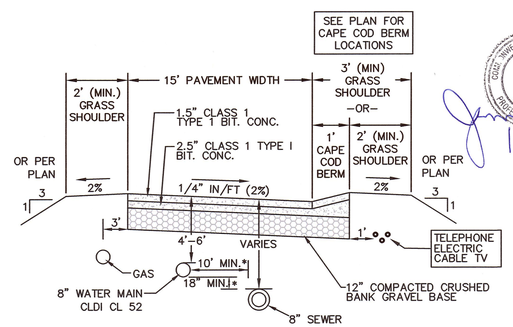
TYPICAL PERMANENT WATER SERVICE CONNECTION

NOT TO SCALE



CUL-DE-SAC TYPICAL CROSS SECTION

NOT TO SCALE



*IF LESS THAN 10' HORIZONTAL SEPARATION BETWEEN WATER & SEWER, EACH PIPE SHALL BE LAID IN A SEPARATE TRENCH. SEE OTHER NOTES ON SHEET 2

EMERGENCY ACCESS ROAD & COMMON DRIVE CROSS SECTION

NOT TO SCALE

COMMONWEALTH OF MASSACHUSETTS
JAMES A. PAVLIK
CIVIL
No. 34058
REGISTERED PROFESSIONAL ENGINEER
11-7-18

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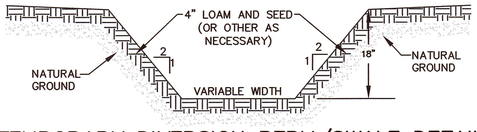
DATE: NOVEMBER 6, 2018
DRAWN BY: CJV | CHECKED BY: JAP
NOT TO SCALE | SHEET 47 OF 50

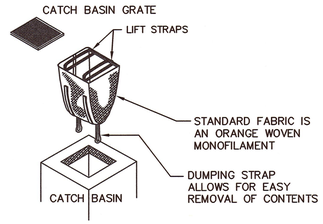
OE-2765



TEMPORARY DIVERSION BERM/SWALE DETAIL

NOT TO SCALE

CONTRACTOR SHALL STABILIZE AS NECESSARY USING RIP RAP, CRUSHED STONE, EROSION CONTROL BLANKETS, AND/OR LOAM & SEED

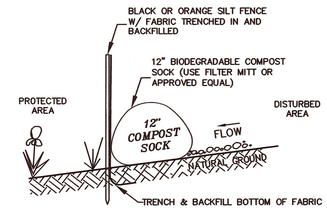


DANDY SACK® SILT SACK

BY MIRAFI

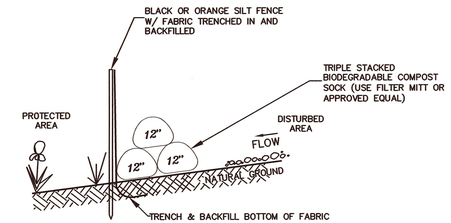
NOT TO SCALE

NOTE: SILT SACKS TO BE INSTALLED AT CATCH BASINS ONLY AFTER PAVED AREA IS CONSTRUCTED TO BASE COURSE PAVEMENT



EROSION CONTROL BARRIER–TYPE 1 (ECB–1)

REQUIRED AT 50'–100' OF BORDERING VEGETATED WETLANDS, SEE NOTE 1.



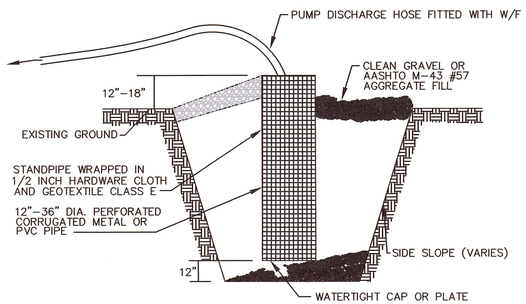
EROSION CONTROL BARRIER–TYPE 2 (ECB–2)

NOT TO SCALE

REQUIRED AT 0'–50' OF BORDERING VEGETATED WETLANDS, SEE NOTES 2–4.

EROSION CONTROL BARRIER NOTES

1. WHEN WORKING WITHIN 50'–100' OF A BORDERING VEGETATED WETLAND USE ECB–1.
2. BETWEEN 0'–50' OF A BORDERING VEGETATED WETLAND, USE ECB–2. (USE TRIPLE STACKED 12" BIODEGRADABLE COMPOST SOCK).
3. WITHIN WETLAND AT WETLAND CROSSINGS #1 AND #3 (EMG. ACCESS ROAD & ROAD F BRIDGE), AND AT THE BVW WETLAND REPLICATION AREA USE ECB–2, EXCEPT, NO SILT FENCE SHALL BE USED. SET TRIPLE COMPOST SOCKS ONLY.
4. IF WORKING WITHIN 10 FEET TO BORDERING VEGETATED WETLAND RESOURCE AREA, 7–DAY SITE STABILIZATION IS REQUIRED IN ADDITION TO ECB–2.
   - UPON COMPLETION OF WORK, OR IF SITE IS TO HAVE WORK STOPPAGE FOR MORE THAN 7–DAYS, THE SITE MUST BE STABILIZED TEMPORARILY WITH JUTE MESH, MULCH, HYDROSEED, OR PERMANENT GROUND COVER PER PLANS.

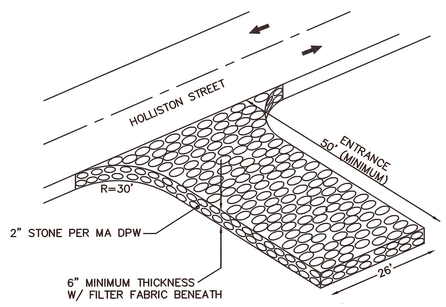


CONSTRUCTION DEWATERING SUMP PIT DETAIL

NOT TO SCALE

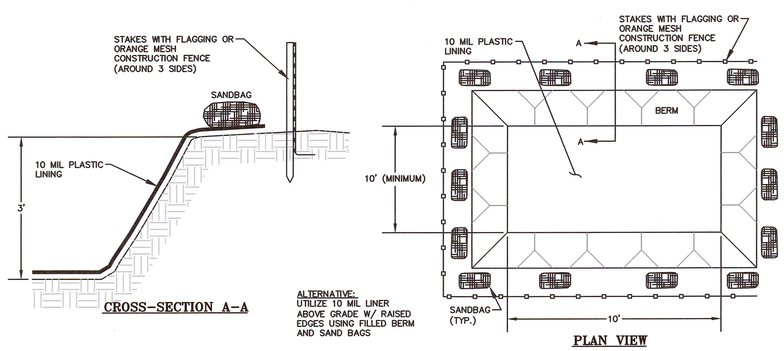
NOTE: IN LOCATIONS WHERE DEWATERING IS REQUIRED, THE CONTRACTOR SHALL CONSTRUCT A DEWATERING SUMP PIT IN ACCORDANCE WITH THE DETAIL PROVIDED. TO PREVENT THE MIGRATION OF SILT AND SEDIMENT, THE CONTRACTOR SHALL FIT THE DISCHARGE END OF THE PUMP HOSE WITH A COMPOSITE SOCK AND ALL FLOW SHALL BE DISCHARGED INTO A SEDIMENT CONTROL TRAP PRIOR TO CONVEYANCE INTO THE STORM DRAIN SYSTEM. THE SEDIMENT CONTROL TRAP SHALL BE CONSTRUCTED UTILIZING AN ENCLOSED AREA OF SILT FENCE AND/OR FILTERMITT IN ACCORDANCE WITH THE DETAIL SHOWN. SEDIMENT TRAPS SHALL BE PLACED IN UPLAND AREAS ONLY AWAY FROM WETLANDS.

DEWATERING PIT TO BE LOCATED OUTSIDE 100' BUFFER AND DISCHARGE, TO A SEDIMENT TRAP OR TEMPORARY DEATERING PIT WHERE FEASIBLE .



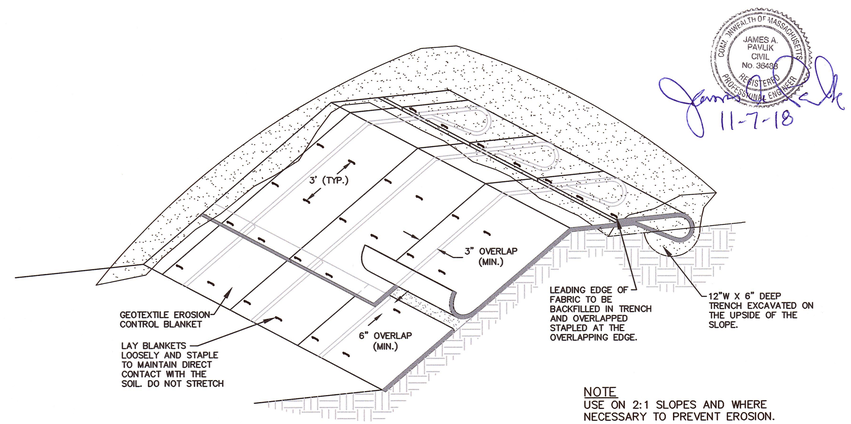
TEMPORARY SITE CONSTRUCTION ENTRANCE PAD

N.T.S.



BELOW GRADE CONCRETE WASHOUT PIT

NOT TO SCALE



NOTE
USE ON 2:1 SLOPES AND WHERE NECESSARY TO PREVENT EROSION.

GEOTEXTILE EROSION CONTROL BLANKET

NOT TO SCALE

COMMONWEALTH OF MASSACHUSETTS
JAMES A. PAVLIK
CIVIL
No. 38408
REGISTERED PROFESSIONAL ENGINEER

11-7-18

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DRAWN BY: CJV	CHECKED BY: JAP
NOT TO SCALE	SHEET 48 OF 50

OE–2765

Z:\Land Projects 2004\OE-2765-Hackney\DWG\FINAL PLANS -CUT SHEETS\Current Cut Sheets\OE2765 Cut Sheets-Details (09-14-50) REV 5.23.18.dwg

T.P.# 1A

DEPTH		ELEV.
0		264.4
	A HORIZON SANDY LOAM 10YR 3/2	
12"		263.4
	B HORIZON SANDY LOAM 10YR 5/6	
24"		262.4
	C LAYER SANDY LOAM 2.5Y 4/4	
ESTIMATED WATER 36"	MOTTLES	261.4
78"	NO WATER	257.9

DATE OF TEST : 8/8/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 1B

DEPTH		ELEV.
0		264.9
	A HORIZON SANDY LOAM 10YR 3/2	
16"		263.6
	B HORIZON SANDY LOAM 10YR 5/6	
ESTIMATED WATER 32"	MOTTLES	262.2
	C1 LAYER SANDY LOAM 2.5Y 5/3	
52"		259.7
	C2 LAYER LOAMY SAND 2.5Y 5/3	
100"	NO WATER	255.7

DATE OF TEST : 8/8/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 2A

DEPTH		ELEV.
0		272.5
	A HORIZON SANDY LOAM 10YR 3/2	
8"		271.8
	B HORIZON SANDY LOAM 10YR 5/6	
18"		271.0
	C LAYER SANDY LOAM 2.5Y 5/3	
ESTIMATED WATER 26"	MOTTLES	270.3
108"	NO WATER	263.5

DATE OF TEST : 8/9/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 2B

DEPTH		ELEV.
0		274.3
	A HORIZON SANDY LOAM 10YR 3/2	
8"		273.6
	B HORIZON SANDY LOAM 10YR 5/6	
ESTIMATED WATER 32"	MOTTLES	271.6
	C1 LAYER LOAMY SAND 2.5Y 5/3	
72"		268.3
	C2 LAYER SANDY LOAM 2.5Y 5/3	
86"	NO WATER	267.1

DATE OF TEST : 8/9/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 3A

DEPTH		ELEV.
0		274.3
	A HORIZON SANDY LOAM 10YR 3/2	
10"		273.5
	B HORIZON SANDY LOAM 10YR 5/6	
32"		271.6
	C LAYER MED SAND & GRAVEL 2.5Y 5/3	
ESTIMATED WATER 42"	MOTTLES	270.8
86"	NO WATER	267.1

DATE OF TEST : 8/9/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 3B

DEPTH		ELEV.
0		275.4
	A HORIZON SANDY LOAM 10YR 3/2	
10"		274.6
	B HORIZON SANDY LOAM 10YR 5/6	
36"		272.4
	C LAYER MED SAND & GRAVEL 2.5Y 5/3	
ESTIMATED WATER 42"	MOTTLES	271.9
122"	NO WATER	265.2

DATE OF TEST : 8/9/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 4A

DEPTH		ELEV.
0		277.8
	A HORIZON SANDY LOAM 10YR 3/2	
10"		277.0
	B HORIZON SANDY LOAM 10YR 5/6	
32"		275.1
	C LAYER LOAMY SAND 2.5Y 5/3	
ESTIMATED WATER 52"	MOTTLES	273.5
108"	NO WATER	268.8

DATE OF TEST : 8/8/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 4B

DEPTH		ELEV.
0		277.1
	A HORIZON SANDY LOAM 10YR 3/2	
6"		276.6
	B HORIZON SANDY LOAM 10YR 5/6	
30"		274.6
	C LAYER LOAMY SAND 2.5Y 5/3	
ESTIMATED WATER 48"	MOTTLES	273.1
112"	NO WATER	267.8

DATE OF TEST : 8/8/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 5A

DEPTH		ELEV.
0		273.3
	A HORIZON SANDY LOAM 10YR 3/2	
6"		272.8
	B HORIZON SANDY LOAM 10YR 5/6	
24"		271.3
ESTIMATED WATER 48"	MOTTLES	269.3
	C1 LAYER LOAMY SAND 2.5Y 5/3	
60"		268.3
	C2 LAYER SANDY LOAM 2.5Y 5/3	
110"	NO WATER	264.1

DATE OF TEST : 8/8/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 5B

DEPTH		ELEV.
0		271.8
	A HORIZON SANDY LOAM 10YR 3/2	
6"		271.3
	B HORIZON SANDY LOAM 10YR 5/6	
30"		269.3
ESTIMATED WATER 32"	MOTTLES	269.1
	C1 LAYER LOAMY SAND 2.5Y 5/3	
48"		267.8
	C2 LAYER MED SAND & GRAVEL 2.5Y 5/3	
102"	NO WATER	263.3

DATE OF TEST : 8/8/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 6A

DEPTH		ELEV.
0		270.9
	A HORIZON SANDY LOAM 10YR 3/2	
8"		270.2
	B HORIZON SANDY LOAM 10YR 5/6	
28"		268.6
	C LAYER LOAMY SAND 2.5Y 5/3	
ESTIMATED WATER 36"	MOTTLES	267.9
110"	NO WATER	261.7

DATE OF TEST : 8/8/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 6B

DEPTH		ELEV.
0		271.1
	A HORIZON SANDY LOAM 10YR 3/2	
6"		270.6
	B HORIZON SANDY LOAM 10YR 5/6	
24"		269.1
ESTIMATED WATER 36"	MOTTLES	268.1
	C1 LAYER LOAMY SAND 2.5Y 5/3	
72"		265.1
	C2 LAYER SANDY LOAM 2.5Y 5/4	
100"	NO WATER	262.8

DATE OF TEST : 8/8/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 7A

DEPTH		ELEV.
0		268.2
	A HORIZON SANDY LOAM 10YR 3/2	
12"		267.2
	B HORIZON SANDY LOAM 10YR 5/6	
32"		265.5
	C LAYER LOAMY SAND 2.5Y 5/3	
ESTIMATED WATER 48"	MOTTLES	264.2
120"	NO WATER	258.2

DATE OF TEST : 8/8/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 7B

DEPTH		ELEV.
0		268.4
	A HORIZON SANDY LOAM 10YR 3/2	
8"		267.7
	B HORIZON SANDY LOAM 10YR 5/6	
36"		265.4
	C LAYER LOAMY SAND 2.5Y 5/3	
ESTIMATED WATER 42"	MOTTLES	264.9
96"	NO WATER	260.4

DATE OF TEST : 8/8/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 8A

DEPTH		ELEV.
0		274.0
	A HORIZON SANDY LOAM 10YR 3/2	
8"		273.3
	B HORIZON SANDY LOAM 10YR 6/6	
26"		271.8
	C LAYER SANDY LOAM 2.5Y 6/4	
ESTIMATED WATER 30"	MOTTLES	271.5
74"	NO WATER	267.8

DATE OF TEST : 8/5/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 8B

DEPTH		ELEV.
0		272.5
	A HORIZON SANDY LOAM 10YR 3/2	
8"		271.8
	B HORIZON SANDY LOAM 10YR 6/6	
24"		270.5
ESTIMATED WATER 30"	MOTTLES	270.0
	C LAYER SANDY LOAM 2.5Y 6/4	
72"	NO WATER	266.5

DATE OF TEST : 8/5/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 9A

DEPTH		ELEV.
0		271.3
	A HORIZON SANDY LOAM 10YR 3/2	
10"		270.5
	B HORIZON SANDY LOAM 10YR 6/6	
ESTIMATED WATER 30"	MOTTLES	268.8
	C LAYER LOAMY SAND 2.5Y 5/4	
108"	NO WATER	262.3

DATE OF TEST : 8/5/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 9B

DEPTH		ELEV.
0		271.0
	A HORIZON SANDY LOAM 10YR 3/2	
14"		269.8
ESTIMATED WATER 18"	MOTTLES	269.5
	C LAYER LOAMY SAND 2.5Y 5/4	
110"	NO WATER	261.8

DATE OF TEST : 8/5/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 10A

DEPTH		ELEV.
0		274.9
	A HORIZON SANDY LOAM 10YR 3/2	
8"		274.2
	B HORIZON SANDY LOAM 10YR 6/6	
28"		272.6
	C1 LAYER LOAMY SAND 2.5Y 6/3	
ESTIMATED WATER 48"	MOTTLES	271.3
	C2 LAYER SANDY LOAM 7.5Y 3/3	
132"	NO WATER	263.9

DATE OF TEST : 8/5/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 10B

DEPTH		ELEV.
0		274.0
	A HORIZON SANDY LOAM 10YR 3/2	
8"		273.3
	B HORIZON SANDY LOAM 10YR 6/6	
32"		271.3
	C1 LAYER LOAMY SAND 2.5Y 6/3	
ESTIMATED WATER 48"	MOTTLES	270.0
64"		268.7
	C2 LAYER SANDY LOAM 7.5Y 3/3	
132"	NO WATER	263.0

DATE OF TEST : 8/5/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 11A

DEPTH		ELEV.
0		270.6
	A HORIZON SANDY LOAM 10YR 3/2	
8"		269.9
	B HORIZON SANDY LOAM 10YR 5/4	
36"		267.6
	C LAYER LOAMY SAND 2.5Y 5/4	
ESTIMATED WATER 38"	MOTTLES	267.4
96"	NO WATER	262.6

DATE OF TEST : 8/5/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 11B

DEPTH		ELEV.
0		271.8
	A HORIZON SANDY LOAM 10YR 3/2	
12"		270.8
	B HORIZON SANDY LOAM 10YR 5/4	
36"		268.8
	C LAYER LOAMY SAND 2.5Y 5/4	
ESTIMATED WATER 48"	MOTTLES	267.8
96"	NO WATER	263.8

DATE OF TEST : 8/5/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 12A

DEPTH		ELEV.
0		270.7
	A HORIZON SANDY LOAM 10YR 3/2	
10"		269.9
	B HORIZON SANDY LOAM 10YR 5/6	
ESTIMATED WATER 24"	MOTTLES	268.7
	C LAYER LOAMY SAND 2.5Y 5/4	
100"	NO WATER	262.4

DATE OF TEST : 8/25/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 12B

DEPTH		ELEV.
0		272.9
	A HORIZON SANDY LOAM 10YR 3/2	
6"		272.4
	B HORIZON SANDY LOAM 10YR 5/6	
30"		270.4
	C LAYER SANDY LOAM 2.5Y 5/6	
ESTIMATED WATER 60"	MOTTLES	267.9
96"	NO WATER	264.9

DATE OF TEST : 8/25/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 13A

DEPTH		ELEV.
0		272.1
	A HORIZON SANDY LOAM 10YR 3/2	
10"		271.3
	B HORIZON SANDY LOAM 10YR 5/6	
26"		269.9
	C LAYER SANDY LOAM 2.5Y 5/6	
ESTIMATED WATER 36"	MOTTLES	269.1
	C LAYER LOAMY SAND 2.5Y 5/6	
84"	NO WATER	265.1

DATE OF TEST : 8/25/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 13B

DEPTH		ELEV.
0		272.4
	A HORIZON SANDY LOAM 10YR 3/2	
8"		271.7
	B HORIZON SANDY LOAM 10YR 5/6	
ESTIMATED WATER 36"	MOTTLES	269.4
	C LAYER MED SAND & GRAVEL 10YR 4/6	
108"	NO WATER	263.4

DATE OF TEST : 8/25/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 14A

DEPTH		ELEV.
0		274.7
	A HORIZON SANDY LOAM 10YR 3/2	
8"		274.0
	B HORIZON SANDY LOAM 10YR 5/6	
28"		272.4
	C LAYER LOAMY SAND 2.5Y 5/4	
ESTIMATED WATER 84"	MOTTLES	267.7
108"	NO WATER	265.7

DATE OF TEST : 8/25/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 14B

DEPTH		ELEV.
0		274.0
	A HORIZON SANDY LOAM 10YR 3/2	
8"		273.3
	B HORIZON SANDY LOAM 10YR 5/6	
26"		271.8
	C LAYER LOAMY SAND 2.5Y 5/4	
ESTIMATED WATER 84"	MOTTLES	267.0
116"	NO WATER	264.3

DATE OF TEST : 8/25/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 15A

DEPTH		ELEV.
0		271.2
	A HORIZON SANDY LOAM 10YR 3/2	
10"		270.4
	B HORIZON SANDY LOAM 10YR 5/6	
36"		268.2
	C LAYER LOAMY SAND 2.5Y 5/3	
ESTIMATED WATER 38"	MOTTLES	268.0
108"	NO WATER	262.2

DATE OF TEST : 8/24/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 15B

DEPTH		ELEV.
0		272.2
	A HORIZON SANDY LOAM 10YR 3/2	
8"		271.5
	B HORIZON SANDY LOAM 10YR 5/6	
32"		269.5
	C LAYER LOAMY SAND 2.5Y 5/3	
ESTIMATED WATER 48"	MOTTLES	268.2
96"	NO WATER	264.2

DATE OF TEST : 8/24/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 16A

DEPTH		ELEV.
0		272.5
	A HORIZON SANDY LOAM 10YR 3/2	
8"		271.8
	B HORIZON SANDY LOAM 10YR 5/6	
30"		270.0
	C LAYER LOAMY SAND 2.5Y 5/3	
ESTIMATED WATER 72"	MOTTLES	266.5
102"	NO WATER	264.0

DATE OF TEST : 8/24/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 16B

DEPTH		ELEV.
0		272.2
	A HORIZON SANDY LOAM 10YR 3/2	
8"		271.5
	B HORIZON SANDY LOAM 10YR 5/6	
32"		269.5
	C LAYER MED SAND 2.5Y 5/3	
ESTIMATED WATER 70"	MOTTLES	266.4
108"	NO WATER	263.2

DATE OF TEST : 8/24/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 17A

DEPTH		ELEV.
0		273.1
	A HORIZON SANDY LOAM 10YR 3/2	
8"		272.4
	B HORIZON SANDY LOAM 10YR 5/6	
36"		267.9
	C LAYER MED SAND 2.5Y 5/3	
ESTIMATED WATER 72"	MOTTLES	267.1
132"	NO WATER	262.1

DATE OF TEST : 8/24/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 17B

DEPTH		ELEV.
0		273.4
	A HORIZON SANDY LOAM 10YR 3/2	
8"		272.7
	B HORIZON SANDY LOAM 10YR 5/6	
32"		270.7
	C LAYER MED SAND 2.5Y 5/3	
ESTIMATED WATER 60"	MOTTLES	268.4
96"	NO WATER	265.4

DATE OF TEST : 8/24/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 18A

DEPTH		ELEV.
0		270.2
	A HORIZON SANDY LOAM 10YR 3/2	
12"		269.2
	B HORIZON SANDY LOAM 10YR 5/6	
32"		267.5
	C LAYER MED SAND & GRAVEL 2.5Y 5/3	
ESTIMATED WATER 60"	MOTTLES	265.2
120"	NO WATER	260.2

DATE OF TEST : 8/10/16
SOIL EVALUATOR: TOM MORRIS

T.P.# 18B

DEPTH		ELEV.
0		270.2
	A HORIZON SANDY LOAM 10YR 3/2	
10"		269.4
	B HORIZON SANDY LOAM 10YR 5/6	
42"		266.7
	C LAYER MED SAND & GRAVEL 2.5Y 5/3	
ESTIMATED WATER 48"	MOTTLES	266.2
96"	NO WATER	262.2

DATE OF TEST : 8/24/16
SOIL EVALUATOR: TOM MORRIS

COMMONWEALTH OF MASSACHUSETTS
JAMES A. PAVLIK
CIVIL
No. 36408
REGISTERED PROFESSIONAL ENGINEER

11-7-18

REVISIONS

NO.	DATE	DESCRIPTION

OWNERS

WICKETT DEVELOPMENT COMPANY, INC.
38746 CLINTON AVENUE DADE CITY, FL 33525
DD. BK. 13071, PAGE 203
PL. NO. 229 OF 2003, PL. BK. 507 (PARCEL A)
ASSESSORS PARCEL ID 8–016
DD. BK. 22145, PG. 113 (LOTS 8, 10, 12 & 14)
DD. BK. 22145, PG. 114 (LOTS 7, 9, 11, 13 & 15)
PLAN NO. 80 & 81 OF 1967, PL. BK. 222
ASSESSORS PARCEL ID 9–058

HENRY L. WICKETT
38746 CLINTON AVENUE, DADE CITY, FL 33525
DD. BK 9742, PG. 202
ASSESSORS PARCEL ID 8–019
DD. BK. 32754, PAGE 363
ASSESSORS PARCEL ID 8–020

HENRY L. WICKETT & HENRY L. WICKETT JR.
38746 CLINTON AVENUE DADE CITY, FL 33525
DD. BK. 6607, PG. 537
PORTION OF PL. NO. 97 OF 2012, PL. BK. 615
ASSESSORS PARCEL ID 14–005

NOVUS HOMES LLC
135 MAIN STREET, SUITE 5, MEDWAY MA, 02053
DD. BK. 32449, PG. 424
PL. NO. 666–C OF 9 OF 1972, PL. BK. 232 (LOT 214)
A PORTION OF ASSESSORS PARCEL ID 14–020

TIMBER CREST ESTATES LLC
C/O MOUNIR TAYARA
135 MAIN STREET, SUITE 5, MEDWAY MA 02053
DD. BK. 34358, PG. 264
PL. NO. 1103 OF 1950, PL. BK. 2945, PG. 230
ASSESSORS PARCEL ID 9–051
DD. BK. 32841, PG. 560
PL. NO. 75 OF 2015, PL. BK. 636
ASSESSORS PARCEL ID 15–001

SUSAN J. PAVLIK, NANCY P. RUSSELL, JAMES A. PAVLIK & THOMAS F. PAVLIK
19 CENTER STREET MEDWAY, MA 02053
DD. BK. 24701, PG. 7
PL. NO. 388 OF 1995, PL. BK. 431
ASSESSORS PARCEL ID 15–019

JOHN C. SIMCOX & KATHLEEN R. SIMCOX, TRUSTEES OF THE SIMCOX FAMILY TRUST
11 OHLSON CIRCLE, MEDWAY, MA 02053
DD. BK. 29614, PG. 283
PL. NO. 666–A OF 9 OF 1972, PL. BK. 232 (LOT 213)
A PORTION OF ASSESSORS PARCEL ID 14–021

APPLICANT

TIMBER CREST ESTATES LLC
C/O MOUNIR TAYARA
135 MAIN STREET, SUITE 5
MEDWAY MA, 02053

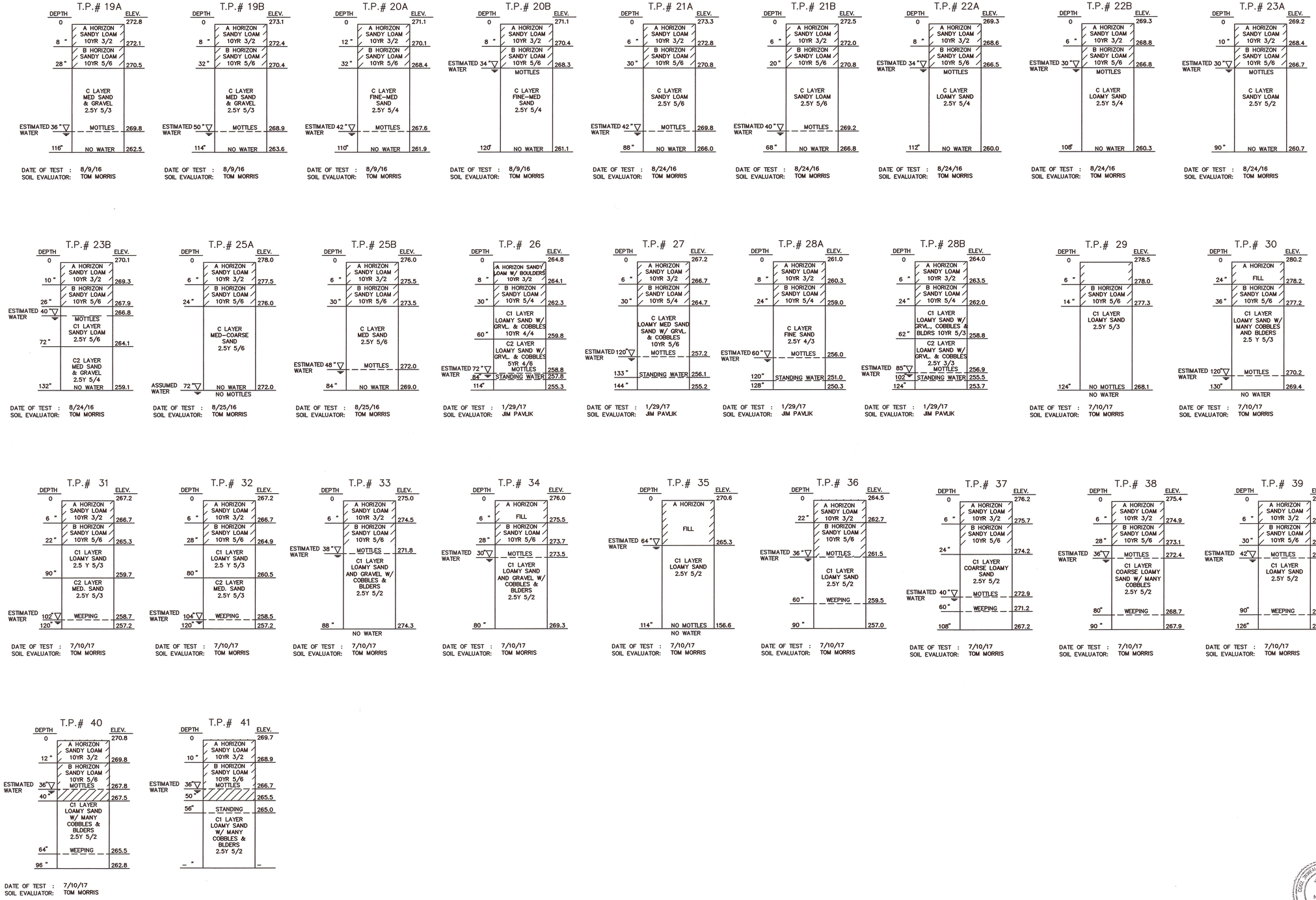
FINAL SUBMITTAL DETAIL SHEET "TIMBER CREST ESTATES" OFF WINTHROP STREET, OHLSON CIRCLE FAIRWAY LANE & FERN PATH IN MEDWAY MASSACHUSETTS

Outback Engineering Incorporated
165 EAST GROVE STREET
MIDDLEBOROUGH, MA 02346
TEL: (508)–946–9231
FAX: (508)–947–8873
www.outback–eng.com

DATE: NOVEMBER 6, 2018

DRAWN BY: CJV	CHECKED BY: JAP
NOT TO SCALE	SHEET 49 OF 50

OE–2765



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ASSESSORS PARCEL ID 8–020

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38746 CLINTON AVENUE DADE CITY, FL 33525
DD. BK. 6607, PG. 537
PORTION OF PL. NO. 97 OF 2012, PL. BK. 615
ASSESSORS PARCEL ID 14–005

NOVUS HOMES LLC
135 MAIN STREET, SUITE 5, MEDWAY MA, 02053
DD. BK. 32449, PG. 424
PL. NO. 666–C OF 9 OF 1972, PL. BK. 232 (LOT 214)
A PORTION OF ASSESSORS PARCEL ID 14–020

TIMBER CREST ESTATES LLC
C/O MOUNIR TAYARA
135 MAIN STREET, SUITE 5, MEDWAY MA 02053
DD. BK. 34358, PG. 264
PL. NO. 1103 OF 1950, PL. BK. 2945, PG. 230
ASSESSORS PARCEL ID 9–051
DD. BK. 32841, PG. 560
PL. NO. 75 OF 2015, PL. BK. 636
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COMMONWEALTH OF MASSACHUSETTS
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11-7-18

DATE: NOVEMBER 6, 2018

DRAWN BY: CJV	CHECKED BY: JAP
NOT TO SCALE	SHEET 50 OF 50

OE–2765