

# EXHIBIT E

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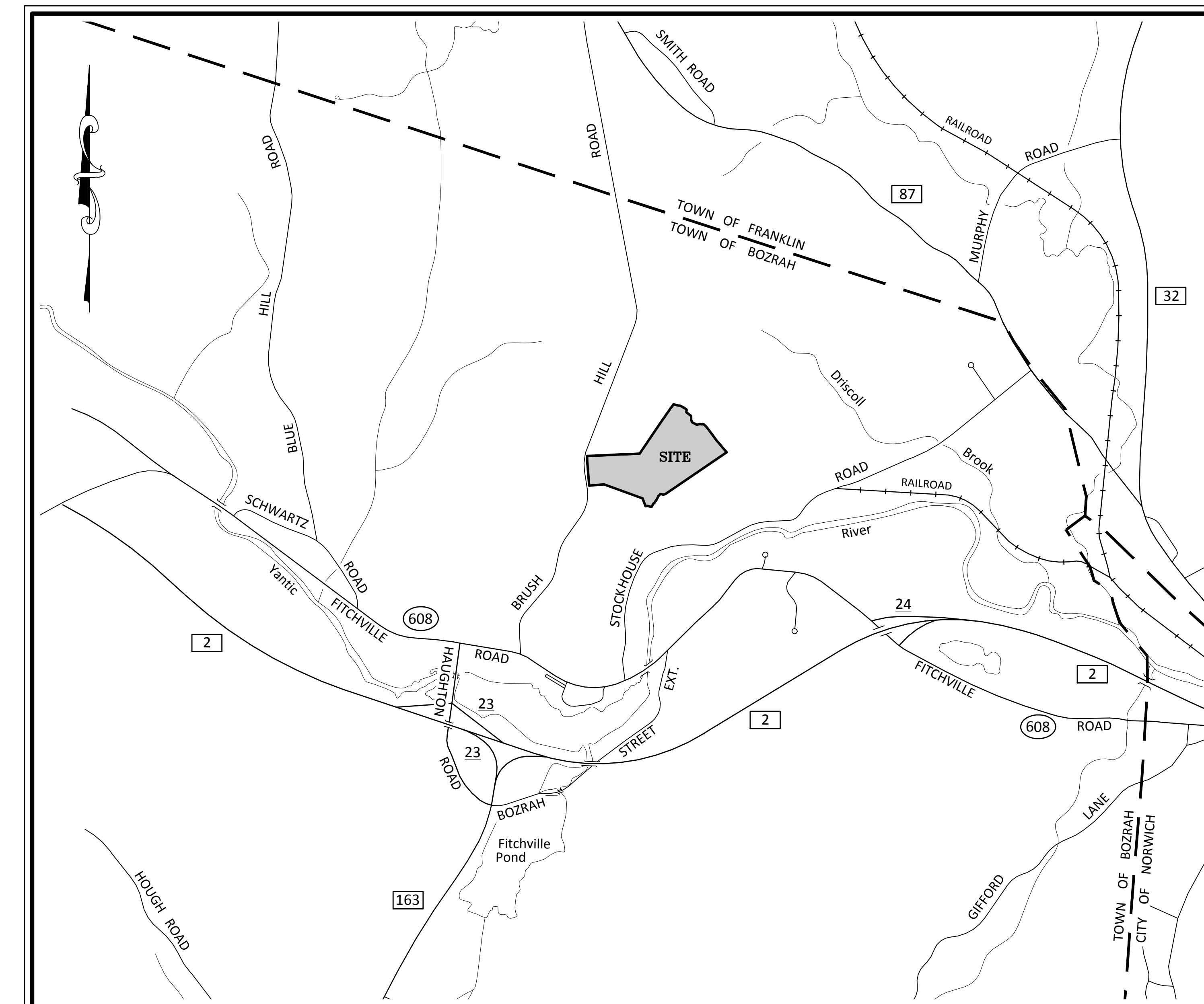
## *REVISED SITE PLAN*

# Site Development Plan

## Proposed Solar Photovoltaic System Installation

Prepared for  
**Brightfields Development LLC**  
 Brush Hill Road, Bozrah, Connecticut  
 Assessor's I.D. 04/006A1  
 October 2014

(Revised May 2015)



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 DUPLICATED OR USED IN PART OR WHOLE FOR ANY OTHER PURPOSE. PROJECT LOCATION  
 OR OWNER WITHOUT THE EXPRESSED WRITTEN CONSENT OF BOUNDARIES LLC.

"TO MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY  
 CORRECT AS NOTED HEREON."



## Index to Drawings

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2	Existing Conditions Plan
3	Grading, Drainage & Erosion Control - West
4	Grading, Drainage & Erosion Control - East
5	Construction Notes & Details
6	Stormwater Management Details
7	Stormwater Management Details

## SURVEY NOTES

1. THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300B-1 THROUGH 20-300B-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED FOR USE BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996. IT IS AN "IMPROVEMENT LOCATION & TOPOGRAPHIC SURVEY"; THE BOUNDARY DETERMINATION CATEGORY IS "RESURVEY". THE HORIZONTAL ACCURACY CONFORMS TO CLASS "A-2". THE TOPOGRAPHIC ACCURACY CONFORMS TO CLASS "T-2" WITHIN THE AREA OF DEVELOPMENT AND "T-D" FOR THE REMAINDER OF THE AREA SHOWN.
2. NORTH ORIENTATION DEPICTED HEREON IS BASED ON CONNECTICUT GRID (NORTH AMERICAN DATUM OF 1983). ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
3. ALL SUBTERRANEAN FEATURES AND IMPROVEMENTS MAY NOT BE DEPICTED OR NOTED HEREON.
4. THE FIELD SURVEY WAS COMPLETED ON APRIL 12, 2011 AND WAS UPDATED FOR TOPOGRAPHY ON AUGUST 27, 2014. LAND RECORD AND RELATED RESEARCH WAS COMPLETED ON JANUARY 29, 2011 AND UPDATED ON AUGUST 26, 2014.
5. RECORD TITLE TO THE SUBJECT PROPERTY IS REFERENCED TO THE FOLLOWING DEEDS:

A QUIT CLAIM DEED FROM LAWRENCE M. GILMAN TO FAITH CROSS OF HARVARD, MASSACHUSETTS AND MICHAEL A. GOLDBLATT, OF NORWICH, CONNECTICUT, TRUSTEES OF THE LAWRENCE M. GILMAN 1988 TRUST, EXECUTED BY LAWRENCE M. GILMAN AS SETTLOR ON SEPTEMBER 7, 1988, RECORDED JULY 13, 1989, IN TOWN OF BOZRAH LAND RECORDS VOLUME 45, PAGE 724.

A QUIT CLAIM DEED FROM CHARLES M. GILMAN TO FAITH CROSS AND MICHAEL A. GOLDBLATT, TRUSTEES OF THE LAWRENCE M. GILMAN 1988 TRUST, EXECUTED ON SEPTEMBER 8, 1988 BY LAWRENCE M. GILMAN (HEREINAFTER "RELEASEE"), RECORDED JULY 6, 1989, IN TOWN OF BOZRAH LAND RECORDS VOLUME 45, PAGE 692.

\* FAITH CROSS AND MICHAEL A. GOLDBLATT HAVE RESIGNED AS TRUSTEES OF THE LAWRENCE M. GILMAN 1988 TRUST, NAMING RICHARD L. GILMAN AS SOLE TRUSTEE. SEE LETTERS RECORDED IN TOWN OF BOZRAH LAND RECORDS VOLUME 85, PAGE 766 AND VOLUME 85, PAGE 790.
6. DELINEATED INLAND WETLANDS AND WATERCOURSES AS DEPICTED HEREON WERE DERIVED FROM A FIELD DELINEATION PERFORMED BY DEMIAN A. SORRENTINO, C.S.S. ON MAY 8, 2007 AND MAY 9, 2007.

## REFERENCE MAP

- A. "SUBDIVISION PLAN, PROPERTY SURVEY, PREPARED FOR RICHARD L. GILMAN, STOCKHOUSE ROAD & BRUSH HILL ROAD, BOZRAH, CONNECTICUT, SCALE: 1" = 100', JUNE 2008, JOB I.D. NO. 06-1428, SHEET 2 OF 3, LAST REVISED 7-24-08", PREPARED BY BOUNDARIES, LLC.
- B. "SUBDIVISION PLAN, PREPARED FOR RICHARD L. GILMAN, FITCHVILLE ROAD & BRUSH HILL ROAD, BOZRAH, CONNECTICUT, SCALE: VARIES, OCTOBER 2011, JOB I.D. NO. 09-1801, SHEETS 1 OF 2 THROUGH 2 OF 2", LAST REVISED 12-5-11, PREPARED BY BOUNDARIES LLC.
- C. "DRIVeway CROSSING, IMPROVEMENT LOCATION & TOPOGRAPHIC SURVEY, PREPARED FOR RICHARD L. GILMAN, STOCKHOUSE ROAD, BOZRAH, CONNECTICUT, SCALE: 1"=20', NOVEMBER 2009, JOB I.D. NO. 06-1428", PREPARED BY BOUNDARIES LLC.
- D. "SITE PLAN, AGGREGATE EXTRACTION AND PROCESSING PLAN, PREPARED FOR RAWSON MATERIALS, PROPERTY OF RICHARD L. GILMAN, TRUSTEE OF THE LAWRENCE M. GILMAN 1989 TRUST, STOCKHOUSE ROAD & BRUSH HILL ROAD, BOZRAH, CONNECTICUT, FEBRUARY 2011" LAST REVISED 4-13-11" PREPARED BY BOUNDARIES LLC.
- E. "SITE DEVELOPMENT PLAN, PROPOSED INDUSTRIAL BUILDING, PREPARED FOR COIT EXCAVATING, INC., PROPERTY OF STEVEN J. COIT, STOCKHOUSE ROAD, BOZRAH, CONNECTICUT, MAY 2013, SHEETS 1 OF THROUGH 7 OF 7" LAST REVISED 9-4-13, AS PREPARED BY BOUNDARIES LLC.

This figure is a topographic map of a land parcel, likely used for surveying or engineering purposes. The map includes the following key features and data:

- Survey Points and Labels:**
  - Pointed Rock REC (Loose) with coordinates S86°17'01"E 22.68' and S72°47'46"E 20.16'.
  - RBR REC (Loose) with coordinates S53°40'56"E 41.20' and S27°31'32"E 4.83'.
  - RBR SET with coordinates S33°18'45"W 80.54' and S51°56'E 211.11'.
  - Hydes Real Estate LLC Vol. 83, Page 762.
  - AGA Gas, LLC Vol. 58, Page 20.
  - Steven J. Coit Vol. 98, Page 557.
  - Demian A. Sorrentino, C.S.S.
  - John U. Faulise Jr., L.S.
  - Demian A. Sorrentino, C.S.S.
  - John U. Faulise Jr., L.S.
  - DEMID A. SORRENTINO, C.S.S.
  - JOHN U. FAULISE JR., L.S.
  - DATE
  - LICENSE NO.
  - DATE
- Geographic Features:**
  - Intermittent Watercourse and Watercourse lines.
  - EXPOSED LEDGE (TYP) and Ledge features.
  - Inland Wetlands area.
  - Contour lines with elevations ranging from 306 to 350 feet.
  - Proposed spot grade lines labeled N55°41'01"E 962.39' and S40°28'06"E 211.18'.
- Legend & Abbreviations:**

Symbol	Abbreviation	Description
○	ANGLE POINT	
●	REBAR WITH CAP	
◎	DRILL HOLE	
DH	DRILL HOLE	
RBR	REBAR	
REC	RECOVERED	
SF	SQUARE FEET	
Ac.	ACRES	
L.F.	LINEAR FEET	
W/W	WITH WIRE	
○○○○	STONE WALL	
○○○○	REMNANT STONE WALL	
N/F	NOW OR FORMERLY	
TYP	TYPICAL	
369.5	PROPOSED SPOT GRADE	
X	FLARED END	
S	SLOPE	
HDPE	HIGH DENSITY POLYETHYLENE	
INV	INVERT	
•	ANGLE POINT	
○	REBAR WITH CAP	
◎	DRILL HOLE	
DH	DRILL HOLE	
RBR	REBAR	
REC	RECOVERED	
△ 4-1	WETLAND FLAG	
SP	STONE PILE	
CFP	CEDAR FENCE POST	
—×—	REMNANT WIRE FENCE	
—366—	LEDGE	
---366---	EXISTING CONTOUR	
—366—	PROPOSED CONTOUR	
ELEV	ELEVATION	
OCS	OUTLET CONTROL STRUCTURE	
IT	INFILTRATION TRENCH	
SWB	STORMWATER BASIN	
- Soil Investigation Statement:**

I HAVE CONDUCTED AN ON-SITE SOIL INVESTIGATION OF THE PARCEL OF LAND DEPICTED HEREON. THE INTERMITTENT WATERCOURSES AND INLAND WETLAND BOUNDARIES AS PORTRAYED ARE AN ACCURATE REPRESENTATION OF THE DELINEATION PERFORMED IN THE FIELD.
- Compass Rose:**

N  
W  
S  
E

SEE SURVEY NOTE #2

# Improvement Location & Topographic Survey "Existing Conditions Plan"

# Using Culture Prepared for Brightfields Develop

# Brush Hill Road, Bozrah, Connecticut

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## LEGEND & ABBREVIATIONS

SN	NET	•	ANGLE POINT
	GUYWIRE	○	REBAR WITH CAP
±	SOUTHERN NEW ENGLAND TELEPHONE	●	DRILL HOLE
REC	MORE OR LESS	DH	DRILL HOLE
SF	RECOVERED	RBR	REBAR
Ac.	SQUARE FEET	REC	RECOVERED
L.F.	ACRES	△ 4-1	WETLAND FLAG
W/W	LINEAR FEET	SP	STONE PILE
000	WITH WIRE	CFP	CEDAR FENCE POST
000	STONE WALL	— X —	REMNANT WIRE FENCE
N/F	REMNANT STONE WALL		LEDGE
TYP	NOW OR FORMERLY	----366----	EXISTING CONTOUR
369.5	TYPICAL	— [366] —	PROPOSED CONTOUR
FE	PROPOSED SPOT GRADE	ELEV	ELEVATION
S	FLARED END	OCS	OUTLET CONTROL STRUCTURE
HDPE	SLOPE	IT	INFILTRATION TRENCH
INV	HIGH DENSITY POLYETHYLENE	SWB	STORMWATER BASIN

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Y KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY  
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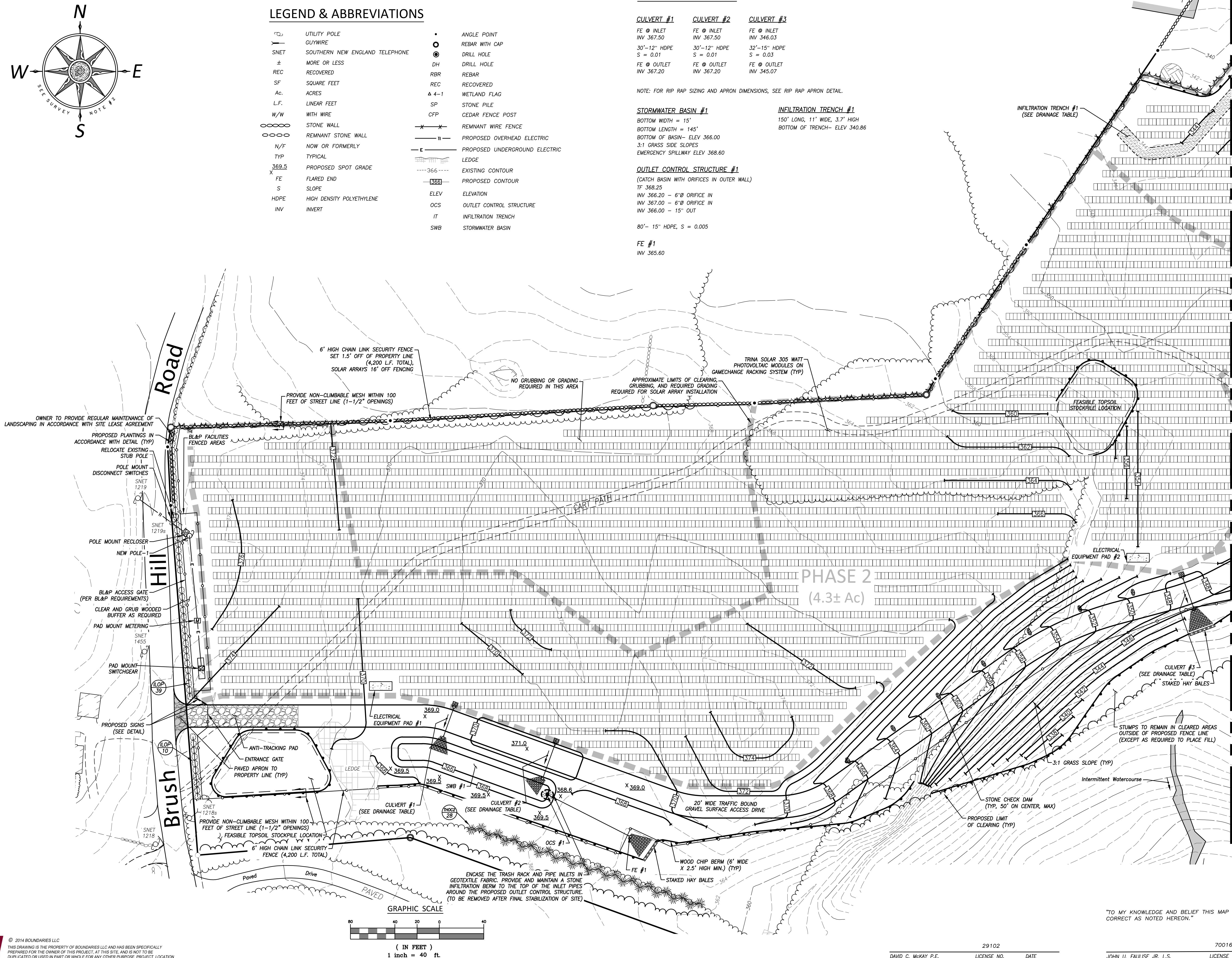
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DEMIA, A. SORRENTINO, C.S.S. DATE

70018

SHEET NO.

7



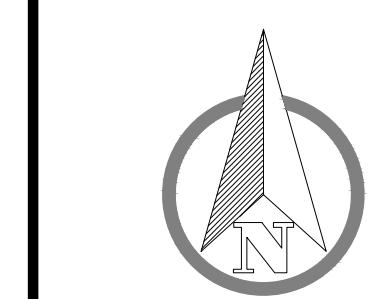
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OR OWNER WITHOUT THE EXPRESSED WRITTEN CONSENT OF BOUNDARIES LLC.

29102  
DAVID C. MCKAY P.E.   LICENSE NO.   DATE

70016  
JOHN U. FAULIUS JR. L.S.   LICENSE NO.   DATE

**Improvement Location & Topographic Survey  
"Grading, Drainage & Erosion Control - West"**

**Brightfields Development LLC**  
Brush Hill Road, Bozrah, Connecticut  
Prepared for



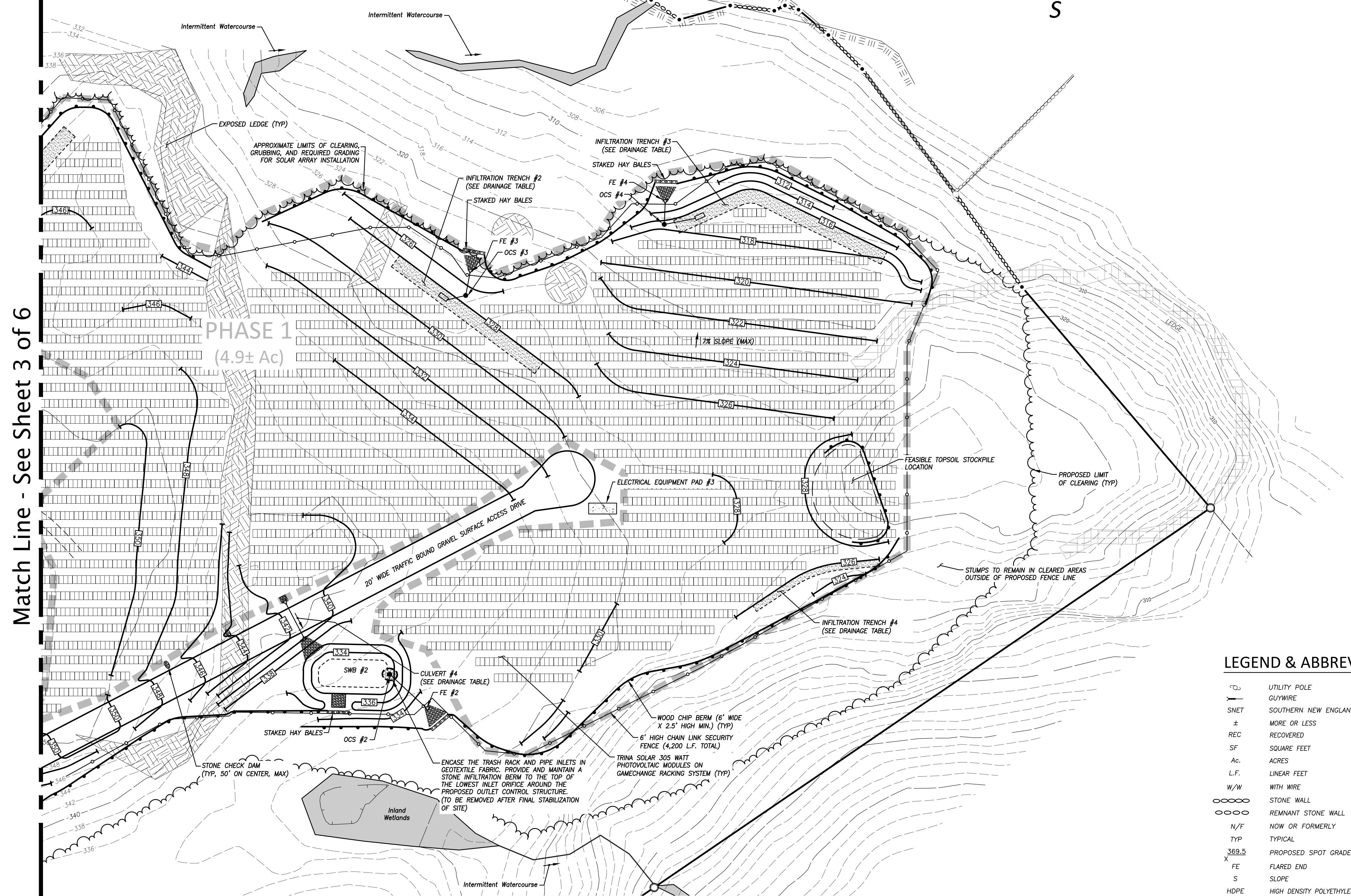
SCALE: 1" = 40'  
DATE: October 2014  
JOB I.D. NO. 14-2279  
Revisions  
Rev. A - New panel layout (GameChange) - 12/19/14  
Rev. B - Per Siting Council  
Verbal Comments - 5/13/15  
Rev. C - Per BL&P/Town  
Comments - 5/20/15

**SHEET NO.**

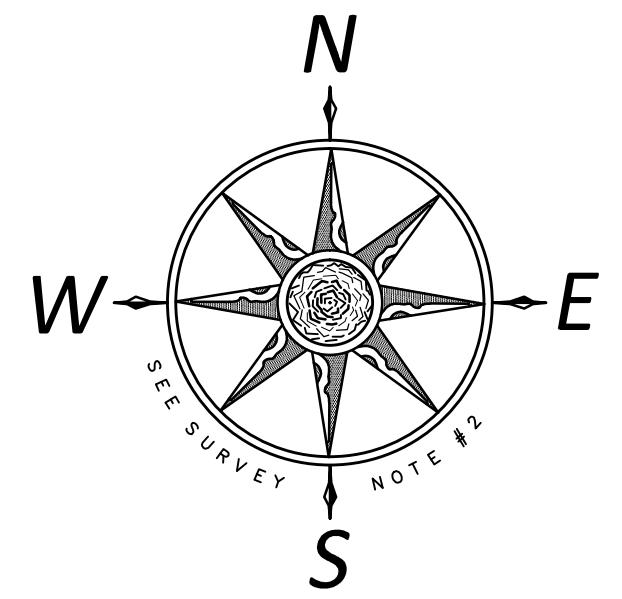
**3**

**7**

Match Line - See Sheet 3 of 6



GRAPHIC SCALE  
(IN FEET)  
1 inch = 40 ft.



## DRAINAGE TABLE

## CULVERT #4

FE @ INLET  
INV 339.60  
32'-12" HDPE  
S = 0.03  
FE @ OUTLET  
INV 338.64  
NOTE: FOR RIP RAP SIZING AND APRON DIMENSIONS, SEE RIP RAP APRON DETAIL.

## STORMWATER BASIN #2

BOTTOM WIDTH = 20'  
BOTTOM LENGTH = 50'  
BOTTOM OF BASIN- ELEV 332.50  
3:1 GRASS SIDE SLOPES  
EMERGENCY SPILLWAY ELEV 335.00

## OUTLET CONTROL STRUCTURE #2

(CATCH BASIN WITH ORIFICES IN OUTER WALL)  
TF 335.00  
INV 333.00 - 6'Ø ORIFICE IN  
INV 334.00 - 6'Ø ORIFICE IN  
INV 332.75 - 12" OUT

35' - 12" HDPE, S = 0.005

FE #2  
332.57

## INFILTRATION TRENCH #2

130' LONG, 10' WIDE, 3'0" HIGH  
BOTTOM OF TRENCH- ELEV 325.00  
BOTTOM OF ADS STORMTECH SC310 SECTION = ELEV 325.50  
INV 325.50

14'- 12" HDPE, S = 0.02, WITH WATERSTOP COLLAR (IMPERVIOUS)

## OUTLET CONTROL STRUCTURE #3

(MANHOLE WITH INTERIOR WALL WITH ORIFICES)  
TF 328.00  
INV 325.12 - 12" IN FROM ADS STORMTECH SC310 SECTION  
INV 325.00 - 2.5'Ø ORIFICE IN INTERIOR WALL WITHIN MANHOLE  
INV 326.00 - 4'Ø ORIFICE IN INTERIOR WALL WITHIN MANHOLE  
WEIR ELEV 326.60 (TOP OF INTERIOR WALL WITHIN MANHOLE)  
INV 324.33 - 12" OUT

20'- 10" HDPE, S = 0.1165

FE #3  
322.00

## INFILTRATION TRENCH #3

160' LONG, 10' WIDE, 3'0" HIGH  
BOTTOM OF TRENCH- ELEV 313.00  
BOTTOM OF ADS STORMTECH SC310 SECTION = ELEV 313.50  
INV 313.50

20'- 12" HDPE, S = 0.02

## OUTLET CONTROL STRUCTURE #4

(MANHOLE WITH INTERIOR WALL WITH ORIFICES)  
TF 317.00  
INV 313.10 - 12" IN FROM ADS STORMTECH SC310 SECTION  
INV 313.00 - 2.5'Ø ORIFICE IN INTERIOR WALL WITHIN MANHOLE  
INV 314.00 - 4'Ø ORIFICE IN INTERIOR WALL WITHIN MANHOLE  
WEIR ELEV 315.20 (TOP OF INTERIOR WALL WITHIN MANHOLE)  
INV 312.33 - 8" OUT

20'- 8" HDPE, S = 0.0215

FE #4  
311.85

## INFILTRATION TRENCH #4

100' LONG, 5' WIDE, 2.0' HIGH  
BOTTOM OF TRENCH- ELEV 323.00

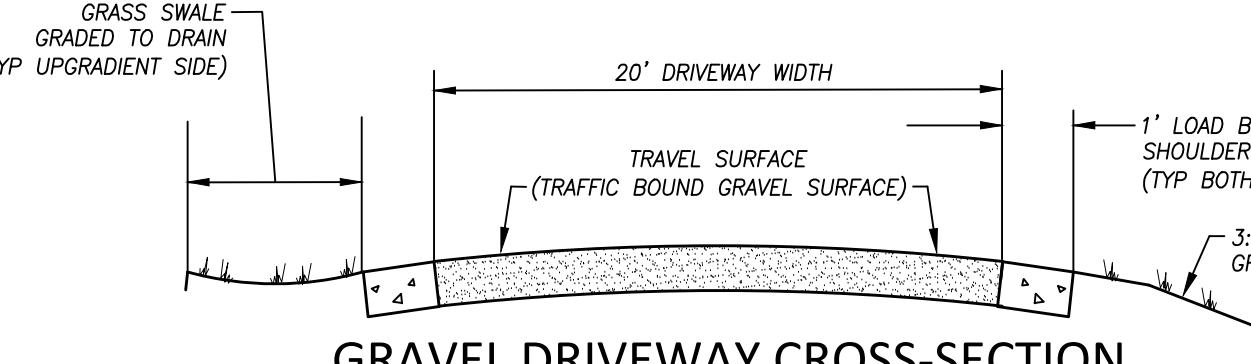
## LEGEND &amp; ABBREVIATIONS

○	ANGLE POINT
×	UTILITY POLE
SNET	SOUTHERN NEW ENGLAND TELEPHONE
±	MORE OR LESS
REC	RECOVERED
SF	SQUARE FEET
AC.	ACRES
L.F.	LINEAR FEET
W/W	WITH WIRE
ooooo	STONE WALL
oooo	REMANANT STONE WALL
N/F	NOW OR FORMERLY
TYP	TYPICAL
369.5	PROPOSED SPOT GRADE
X	PROPOSED CONTOUR
FE	EXISTING CONTOUR
S	PROPOSED CONTOUR
HDPE	ELEVATION
INV	OCS
	OUTLET CONTROL STRUCTURE
	IT
	INFILTRATION TRENCH
	SWB
	STORMWATER BASIN

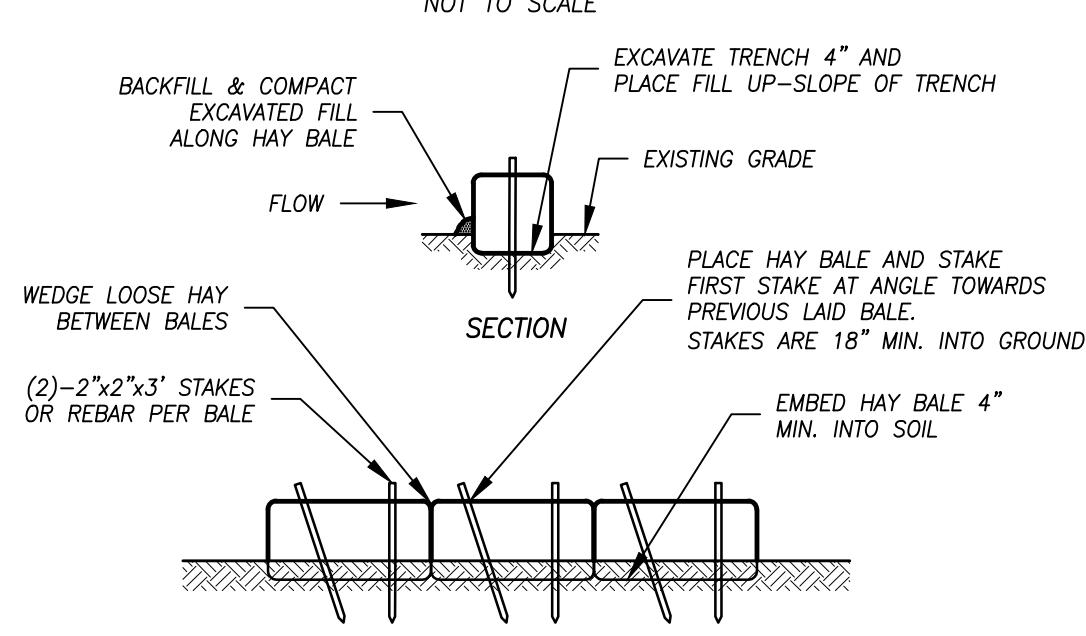
"TO MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY  
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Improvement Location & Topographic Survey  
"Grading, Drainage & Erosion Control - East"

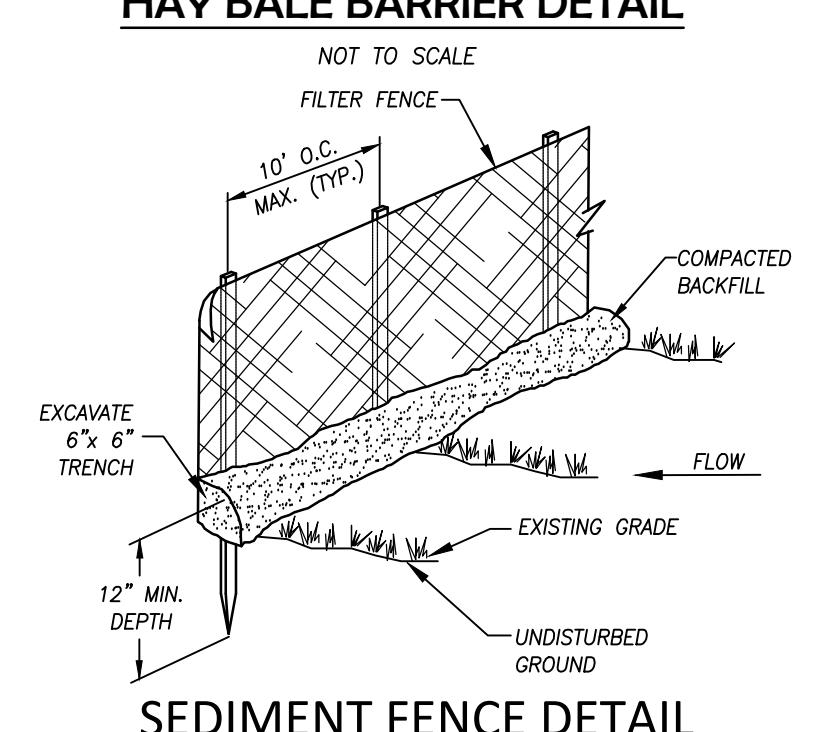
Prepared for  
Brightfields Development LLC  
Brush Hill Road, Bozrah, Connecticut



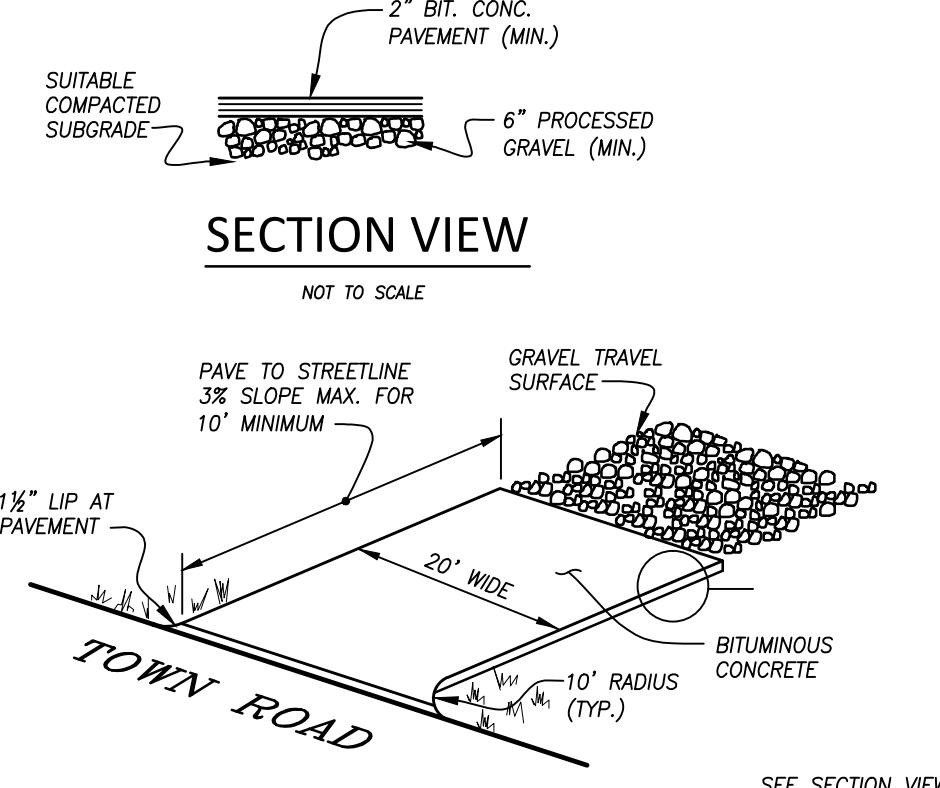
GRAVEL DRIVEWAY CROSS-SECTION



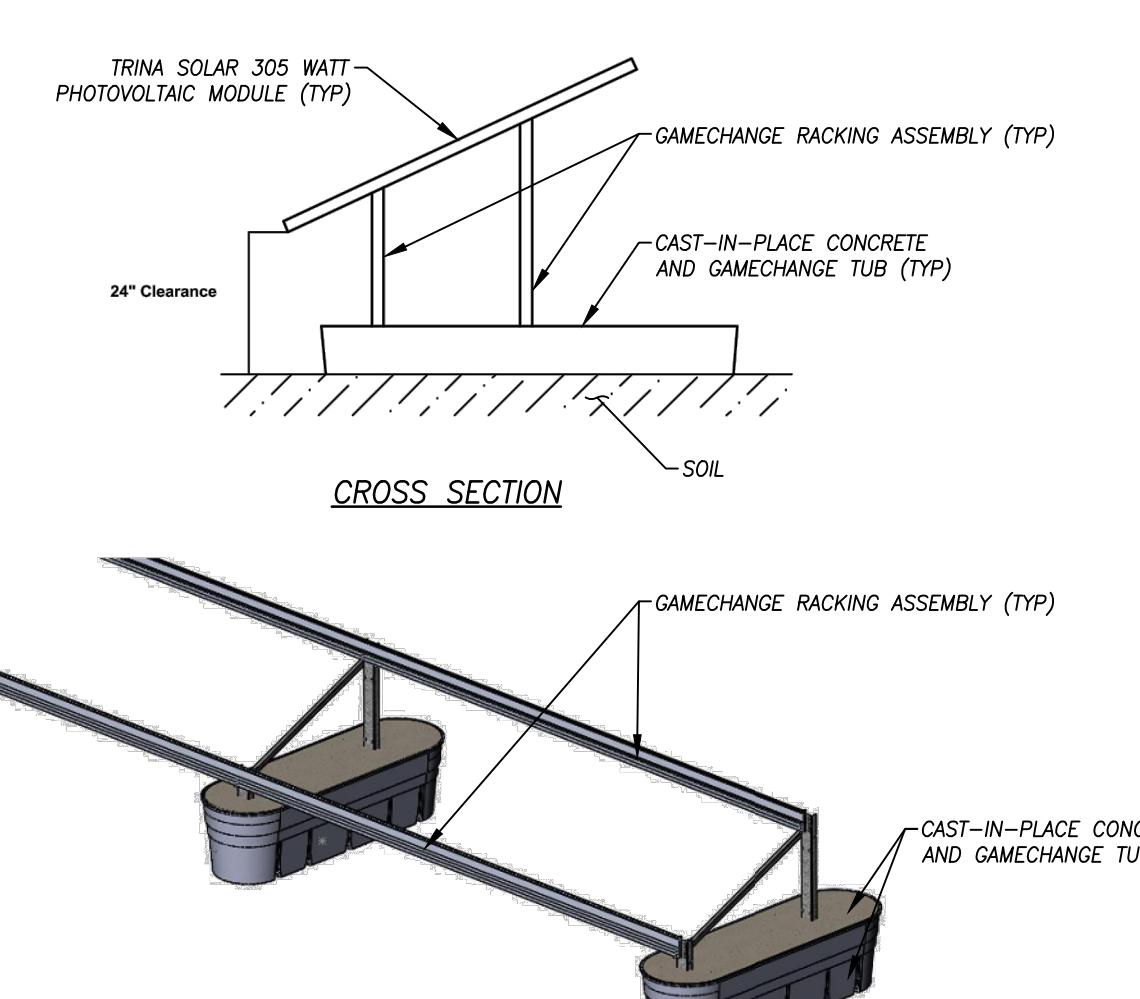
HAY BALE BARRIER DETAIL



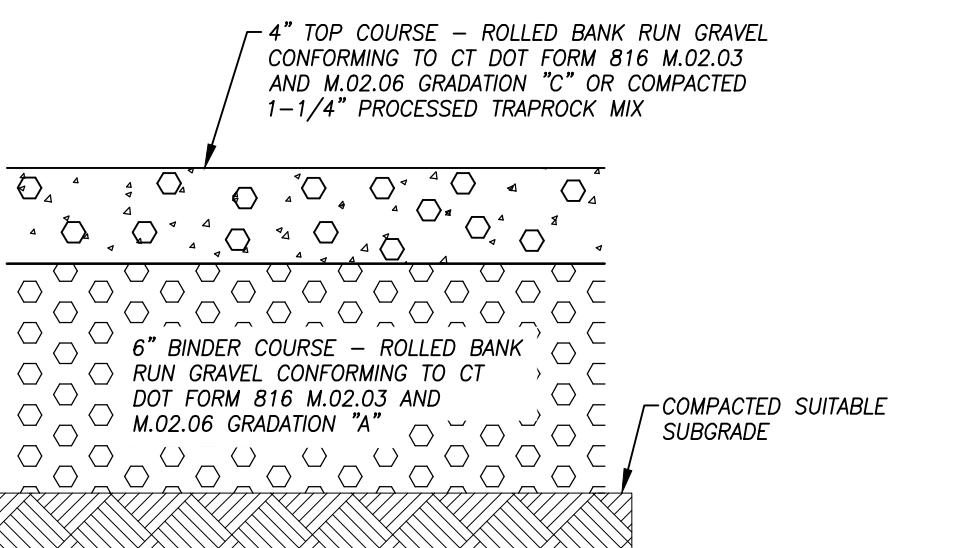
SEDIMENT FENCE DETAIL



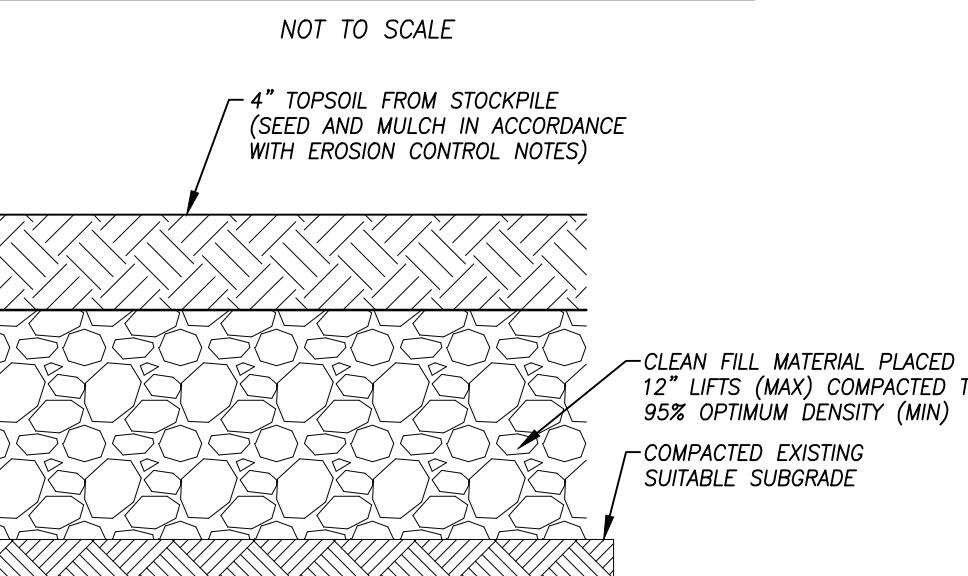
TYPICAL DRIVEWAY APRON



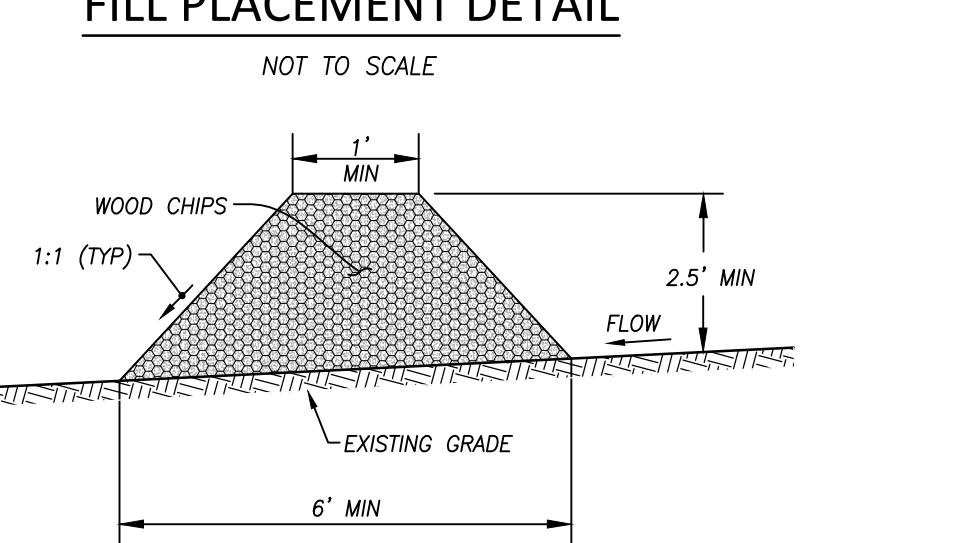
SOLAR ARRAY AND RACKING SYSTEM



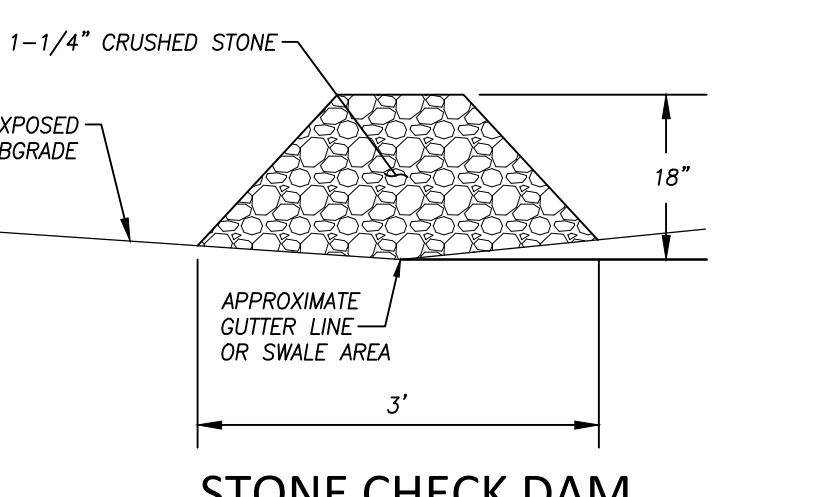
TRAFFIC BOUND GRAVEL SURFACE



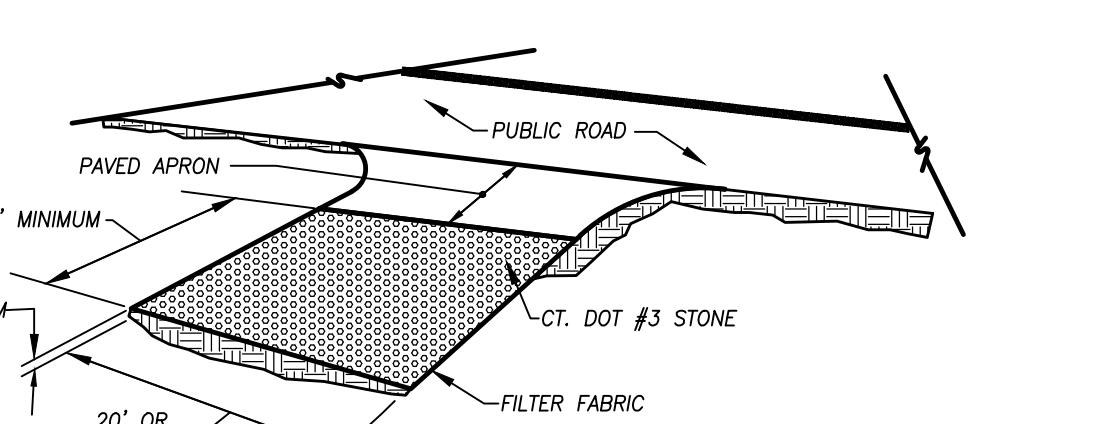
FILL PLACEMENT DETAIL



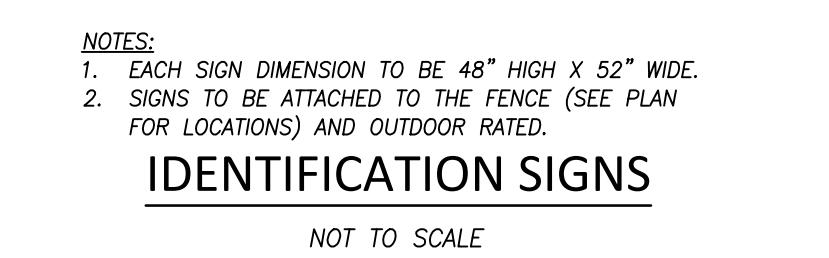
WOOD CHIP BERM



STONE CHECK DAM



ANTI-TRACKING PAD AT EXIT



NOT TO SCALE

## EROSION CONTROL OPERATION & MAINTENANCE

THE APPLICANT SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE PROJECT. NO CONSTRUCTION SHALL PROCEED UNTIL PROPER SEDIMENTATION AND EROSION CONTROL METHODS HAVE BEEN INSTALLED AS THE SEQUENCE OF CONSTRUCTION NECESSITIES.

EVERY PRECAUTION SHALL BE USED DURING CONSTRUCTION TO PREVENT AND MINIMIZE THE DEGRADATION OF THE EXISTING WATER QUALITY FROM STORMWATER RUNOFF DURING CONSTRUCTION. ALL ACTIVITIES SHALL BE IN CONFORMANCE TO AND CONSISTENT WITH ALL APPLICABLE WATER QUALITY STANDARDS AND MANAGEMENT PRACTICES AS SET FORTH BY LOCAL, STATE AND FEDERAL AGENCIES.

THE APPLICANT SHALL APPOINT AN ON SITE AGENT WHO SHALL BE PERSONALLY RESPONSIBLE FOR IMPLEMENTING THIS EROSION AND SEDIMENT CONTROL PLAN AND ENFORCING THE PRESCRIBED SAFEGUARDS DURING THE EXCAVATION AND OPERATION PERIOD.

THIS RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES THROUGHOUT THE PROJECT, INFORMING ALL PARTIES ENGAGED ON SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, NOTIFYING THE PROPER AGENCY AND OFFICIALS OF ANY TRANSFER OF THIS RESPONSIBILITY.

ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REPAVED, CLEANED AND/OR REPLACED AS NECESSARY THROUGHOUT THE PROJECT. ONCE MAINTAINED, COMPLETELY INTEGRATED AND IN GOOD CONDITION, EROSION AND SEDIMENT CONTROL PROTECTION, ONCE IN PLACE, ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO REMAIN IN PLACE IN PROPER CONDITION AND BE CONTINUOUSLY MAINTAINED UNTIL FINAL SITE RESTORATION HAS BEEN COMPLETED. FOLLOWING SUCH PERMANENT STABILIZATION, THE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DISMANTLED, REMOVED, AND DISPOSED OF IN AN APPROVED MANNER. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES BEYOND THOSE SHOWN ON THE PLANS OR PRESCRIBED HEREIN SHALL BE PUT IN PLACE, WHENEVER NECESSARY, TO ADDRESS FIELD CONDITIONS AND/OR AS ORDERED BY THE ENGINEER.

QUALIFIED PERSONNEL PROVIDED BY THE APPLICANT SHALL INSPECT DISTURBED AREAS AND THE LOCATIONS WHERE VEHICLES ENTER AND LEAVE THE SITE. THESE AREAS SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN TWENTY-FOUR HOURS AT THE END OF A STORM THAT IS 0.1 INCH OR GREATER. ADDITIONAL MEASURES BEYOND THOSE SHOWN ON THIS PLAN SET OR PRESCRIBED HEREIN SHALL BE PUT IN PLACE, WHENEVER NECESSARY, TO ADDRESS FIELD CONDITIONS AND/OR AS ORDERED BY THE ENGINEER, WHERE SITES HAVE BEEN TEMPORARILY OR FINALLY STABILIZED, SUCH INSPECTION SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH FOR THREE CONSECUTIVE MONTHS.

NO SOIL, FILL OR OTHER MATERIALS SHALL BE DEPOSITED IN SURROUNDING INLET WETLANDS.

ALL TEMPORARY STORAGE AND/OR STOCKPILE AREAS SHALL BE PROPERLY STABILIZED TO PREVENT EROSION AND SUITABLY CONTAINED TO PREVENT TURBID RUNOFF.

DUMPING OF OIL OR OTHER DELETERIOUS MATERIALS ON THE GROUND IS FORBIDDEN. THE APPLICANT SHALL PROVIDE A MEANS OF CATCHING, RETAINING AND PROPERLY DISPOSING OF DRAINED OIL AND USED OIL FILTERS, AS WELL AS DEFECTIVE MATERIAL THAT MAY BE USED ON THE VEHICLE MAINTENANCE SYSTEM. ALL OIL SPILLS SHALL BE IMMEDIATELY REPORTED TO THE DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION/HAZARDOUS MATERIALS OFFICE. FAILURE TO DO SO MAY RESULT IN THE IMPOSITION OF FINES UNDER THE APPLICABLE CONNECTICUT GENERAL STATUTES.

DURING CONSTRUCTION, THE APPLICANT SHALL BE RESPONSIBLE FOR SITE INSPECTION AND MAINTENANCE TO ASURE PROPER PERFORMANCE OF EROSION CONTROL MEASURES. INSPECTING AND MAINTAINING SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:

- INSPECT ALL FILTER FENCE, WOOD CHIP BERMS AND OTHER EROSION CONTROL MEASURES. REPAIR OR REPLACE ANY DAMAGED PORTION IN ORDER TO INSURE ITS PROPER AND EFFECTIVE OPERATION. REMOVE ACCUMULATED SEDIMENT IF REQUIRED (GREATER THAN 4" DEPTH).
- INSPECT ALL STOCKPILES. REPAIR OR REPLACE ANY DAMAGED PORTION OF EROSION CONTROL MEASURES SURROUNDING THESE AREAS IN ORDER TO PREVENT SEDIMENTATION DOWNGRADED.
- INSPECT GRASS RESTORED AREAS. REVEGETATE ANY ERODED OR DISTURBED AREAS TO PROVIDE PERMANENT STABILIZATION. RESEED AND/OR REVEGETATE ANY AREAS THAT DO NOT HAVE A SUITABLE STAND OF GRASS OR ANY SCOURED AREAS TO PROVIDE PERMANENT STABILIZATION.
- INSPECTION OF ANTI-TRACKING PAD, REMOVE AND DISPOSE OF PAD AND REPLACE IF PAD IS NO LONGER FUNCTIONING EFFICIENTLY OR ACCUMULATED SEDIMENT IS TO A DEPTH OF 2" BELOW THE STONE SURFACE.
- INSPECTION OF ALL STONE CHECK DAMS, REMOVE ACCUMULATED SEDIMENT IF REQUIRED (BLOCKING MORE THAN 3" DEPTH OF FLOW).
- INSPECTION OF ALL FLARED END OUTLETS/DISCHARGE POINTS, REMOVE ACCUMULATED SEDIMENT IF REQUIRED (GREATER THAN 3" DEPTH IN RIP RAP APRON AREAS). REINSTALL RIP RAP IF NECESSARY TO PROVIDE ADEQUATE SCOUR PROTECTION AS ORIGINALLY DESIGNED PER PLAN.
- INSPECTION OF TEMPORARY AND PERMANENT STORMWATER BASINS, IF USED, REMOVE ACCUMULATED SEDIMENT IF REQUIRED (GREATER THAN 6" DEPTH), REVEGETATE IF NECESSARY TO PROVIDE STABILIZATION
- INSPECT DOWNGRADIENT AREAS OF ALL OUTLETS AND SOLAR ARRAYS. STABILIZE ANY ERODED AREAS IF FOUND.

## EROSION CONTROL NOTES

1. ALL UTILITIES ARE APPROXIMATE. CONTRACTOR TO VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION. CONTACT "CALL-BEFORE-YOU-DIG" AT 1-800-922-4455 AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION.

2. THE RESPONSIBLE PARTY FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES IS MIKE SINGER OF BRIGHTFIELDS DEVELOPMENT, LLC AT 860-214-7195.

3. THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION, DEBULLETT 34, SHALL BE USED FOR INSTALLING AND MAINTAINING ALL EROSION CONTROL MEASURES. THE CONTRACTOR SHALL INSTALL ADDITIONAL MEASURES AS NECESSARY IF DIRECTED BY THE ENGINEER.

4. SEEDING FOR PERMANENT STABILIZATION SHALL BE DONE BETWEEN APRIL 15 THROUGH JUNE 15 OR BETWEEN AUGUST 15 THROUGH SEPTEMBER 15. IF SEEDING CANNOT BE DONE WITHIN THESE TIMES, APPLY TEMPORARY SEEDING UNTIL NEXT SEEDING TIME. SEED MIXTURE SHALL BE AS FOLLOWS:

ALL 2:1 SLOPE AREAS	15 LBS/ACRE OR 0.35 LBS/1,000 SF
CROWN VETCH	10 LBS/ACRE OR 0.25 LBS/1,000 SF
PERENNIAL RYERGRASS	10 LBS/ACRE OR 0.25 LBS/1,000 SF
ALL OTHER GRASSED AREAS	20 LBS/ACRE OR 0.45 LBS/1,000 SF
CREEPING RED FESCUE	2 LBS/ACRE OR 0.05 LBS/1,000 SF
REDTOP	15 LBS/ACRE OR 0.35 LBS/1,000 SF
CROWN VETCH	15 LBS/ACRE OR 0.35 LBS/1,000 SF

5. MULCH SHALL BE A GOOD QUALITY HAY OR STRAW AND SHALL BE APPLIED AT A RATE OF 2 BALES/100 SF.

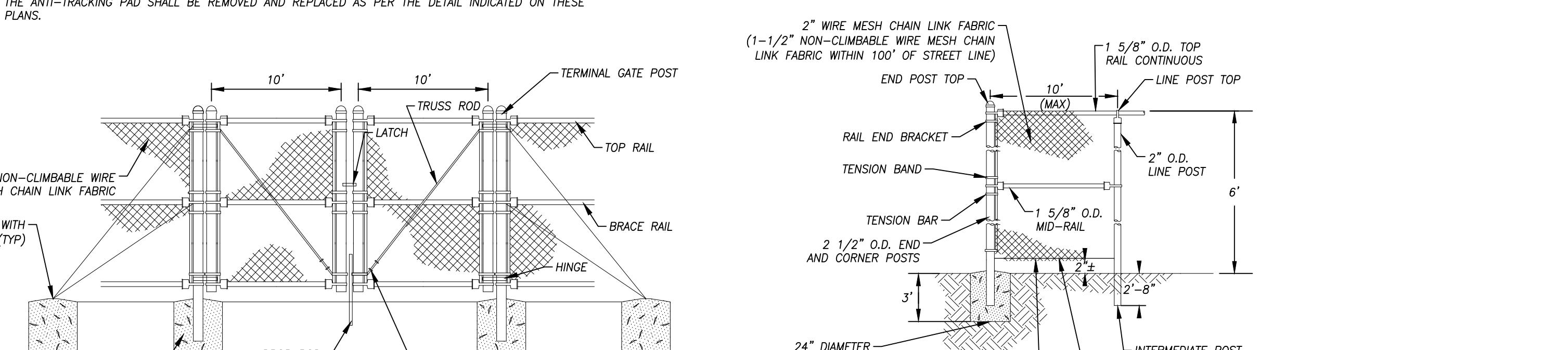
6. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WITHIN 24 HOURS AFTER RAIN EVENTS AND REPAIRED OR REPLACED AS NECESSARY TO INSURE COMPLIANCE WITH THE APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN.

7. DUST CONTROL MEASURES WILL BE IMPLEMENTED DURING DRY CONDITIONS AND INCLUDE WATERING WITH A TAN TRUCK ON AN AS-NEEDED BASIS IN ORDER TO INSURE THAT NO AMBIENT DUST CONDITIONS ARE GENERATED FROM THE PROJECT.

8. APPLICANT RESERVES THE RIGHT TO SUBSTITUTE A WOOD CHIP BERM (PER DETAIL) IN LIEU OF SEDIMENT FENCE AND/OR STAKED HAY BALES.

9. THE ANTI-TRACKING PAD SHALL BE INSPECTED ON A WEEKLY BASIS AND MAINTAINED THROUGHOUT THE DURATION OF THE CONSTRUCTION FOR THIS PROJECT. WHEN THE ANTI-TRACKING PAD IS NO LONGER FUNCTIONING EFFICIENTLY OR ACCUMULATED SEDIMENT IS TO A DEPTH OF 2" BELOW THE STONE SURFACE, THE ANTI-TRACKING PAD SHALL BE REMOVED AND REPLACED AS PER THE DETAIL INDICATED ON THESE PLANS.

10. AFTER ALL AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE EROSION CONTROL MEASURES. IF FINAL SEEDING CANNOT BE ACCOMPLISHED DURING THE APPROPRIATE PHASE AS NOTED ABOVE DUE TO TIME OF YEAR, DISTURBED AREAS SHALL BE MULCHED FOR WINTER STABILIZATION AND SEADED AND MULCHED DURING THE GROWING SEASON OF SPRING 2016.



6' HIGH GALVANIZED SWING GATE DETAIL

NOT TO SCALE

## GENERAL NOTES

1. THE SITE IS LOCATED WITHIN AN I-80 (INDUSTRIAL) ZONE IN THE TOWN OF BOZRAH.
2. THIS SITE IS NOT LOCATED WITHIN 500' OF ANOTHER MUNICIPALITY.
3. THIS SITE IS NOT LOCATED IN A FLOOD HAZARD AREA AS TAKEN FROM THE LATEST FLOOD INSURANCE RATE MAP, TOWN OF BOZRAH, CONNECTICUT, NEW LONDON COUNTY, PANEL 183 AND 184 OF 554, COMMUNITY PANEL 09011C0183G AND 09011C0184G, EFFECTIVE DATE JULY 18, 2011 BY THE FLOOD EMERGENCY MANAGEMENT AGENCY (FEMA).
4. PROPERTY OWNER: RICHARD L. GILMAN, TRUSTEE, LAWRENCE M. GILMAN 1989 TRUST APPLICANT: BRIGHTFIELDS DEVELOPMENT, LLC.
5. ALL EXISTING UTILITIES ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS AND ELEVATIONS PRIOR TO ANY CONSTRUCTION. CONTRACTOR SHALL CONTACT "CALL-BEFORE-YOU-DIG" AT 1-800-922-4455 AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION. COORDINATE ALL CONNECTIONS WITH THE FRONTAGE UTILITIES.
6. THIS PROPOSAL INVOLVES THE INSTALLATION OF AN 11.5± ACRE SOLAR FARM ON A 25.2± ACRE PROPERTY LOCATED IN AN I-80 (INDUSTRIAL) ZONE IN THE TOWN OF BOZRAH.
7. ALL DISTURBED AREAS OUTSIDE OF THE UTILITY PADS AND ACCESS AREAS/DRIVE SHALL BE STABILIZED AS SOON AS POSSIBLE WITH 4" (MINIMUM) OF TOPSOIL, SEED WITH GRASS AND MULCHED.
8. THIS PROPOSED PROJECT IS SUBJECT TO REGISTRATION FOR A CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER FROM AN INDUSTRIAL ACTIVITY.

## NARRATIVE

THIS PROPOSAL INVOLVES THE INSTALLATION OF AN 11.5± ACRE SOLAR FARM ON A 25.2± ACRE PROPERTY LOCATED IN AN I-80 (INDUSTRIAL) ZONE IN THE TOWN OF BOZRAH. THE PROJECT WILL BE CONSTRUCTED IN 1 PHASE.

THE SITE HAS ROAD FRONTOAGE ON BRUSH HILL ROAD TO THE WEST AND IS BORDERED BY A RESIDENTIAL HOUSE (ZONED INDUSTRIAL PROPERTY) TO THE SOUTHWEST. AN INDUSTRIAL DEVELOPMENT IS UNDER CONSTRUCTION ON PROPERTY TO THE SOUTHEAST. THE ABUTTING PROPERTIES TO THE EAST ARE WOODED ADJACENT TO THE PROPERTY LINE AND ONE IS DEVELOPED AS AN INDUSTRIAL USE ON STOCKHOUSE ROAD. THE PROPERTY TO THE NORTH IS USED FOR AGRICULTURAL PURPOSES.

THE MAJORITY OF THE SITE IS WOODED. ALTHOUGH THERE IS A 5.8± ACRE FIELD IN THE AREA ABUTTING BRUSH HILL ROAD THAT WAS ONCE CLEARED BUT HAS SINCE BECOME OVERGROWN, THE SITE TOPOGRAPHY VARIES GREATLY. THE SITE HAS 3% TO 8% AND GENERALLY SLOPES DOWN TO THE SOUTHEAST. NORTH AND SOUTHEAST, THE SITE ELEVATIONS CHANGE SIGNIFICANTLY FROM THE WESTERLY PORTION AT THE FRONTAGE ON BRUSH HILL ROAD (ELEVATION 374±) TO THE EASTERN PROPERTY BOUNDARY (ELEVATION 290±). THE DEVELOPMENT AREA WILL INCLUDE ONLY AREAS WHERE MODERATE SLOPES EXIST (1-8%) AND WHERE REGRADING CAN BE GENERALLY ACCOMPLISHED WITHOUT CUTS AND FILLS EXCEEDING 4'.

ACCORDING TO THE NATURAL RESOURCES CONSERVATION SERVICE (NRCS) WEB SOIL SURVEY, THE SOILS LOCATED IN THE AREAS OF THE PROPOSED SOLAR ARRAY SITES CONSIST MOSTLY OF HOLLIS-CHAFFIELD-ROCK OUTCROP COMPLEX, 3 TO 15% SLOPES; CHARLTON CHAFFIELD COMPLEX, 3 TO 15% SLOPES; VERY ROCKY; AND SUTTON FINE SANDY LOAM, 2 TO 15% SLOPES, EXTREMELY STONY. THERE ARE ROCK/LEDGE OUTCROPS VISIBLE THROUGHOUT THE PROPOSED DEVELOPMENT AREA.

THESE ARE AREAS OF REGULATED INLAND WETLANDS AND WATERCOURSES ON THE PROPERTY AS DELINEATED BY DEMIAN SORRENTINO, A CERTIFIED SOIL SCIENTIST. THERE IS NO PROPOSED FILLING OR DISTURBANCE OF ANY INLAND WETLANDS OR WATERCOURSES WITH THIS PROPOSAL.

THE PROPOSAL INVOLVES THE INSTALLATION OF SOLAR FARM ENCOMPASSING 11.5± ACRES WITH ELECTRICAL UTILITY PADS, A 20' WIDE, 1,460± LONG TRAFFIC BOUND GRAVEL SURFACE ACCESS DRIVE, INSTALLATION OF A 6' HIGH CHAIN LINK SECURITY FENCE SURROUNDING THE ENTIRE PERIMETER OF THE SOLAR ARRAYS AND ASSOCIATED EQUIPMENT AND IMPROVEMENTS. INSTALLATION OF THE SOLAR ARRAYS WILL CONSIST OF CLEARING AND REMOVING ALL VEGETATION WITHIN THE PROPOSED CLEARING LIMITS, GRUBBING AND DISPOSING OF STUMPS OFF SITE, REGRADING AS REQUIRED TO ACCOMPLISH REGRADING, PLACING AND COMPACTING FILL AS REQUIRED, STORMWATER MANAGEMENT SYSTEMS, INCLUDING PROPOSED CAST-IN-PLACE CONCRETE RACKING SYSTEM, INSTALLING AND ANCHORING THE 6'x3' X 3.25' SOLAR ARRAY PANELS TO THIS PROPOSAL AND THEREFORE NO WATER OR SEWER SERVICE IS NEEDED.

DRILLING AND BLASTING IS NOT ANTICIPATED AND WILL BE AVOIDED AS MUCH AS POSSIBLE FOR THIS PROJECT. IF BLASTING IS REQUIRED A PRE-BLAST SURVEY SHALL BE COMPLETED. BLASTING SHALL BE COMPLETED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.

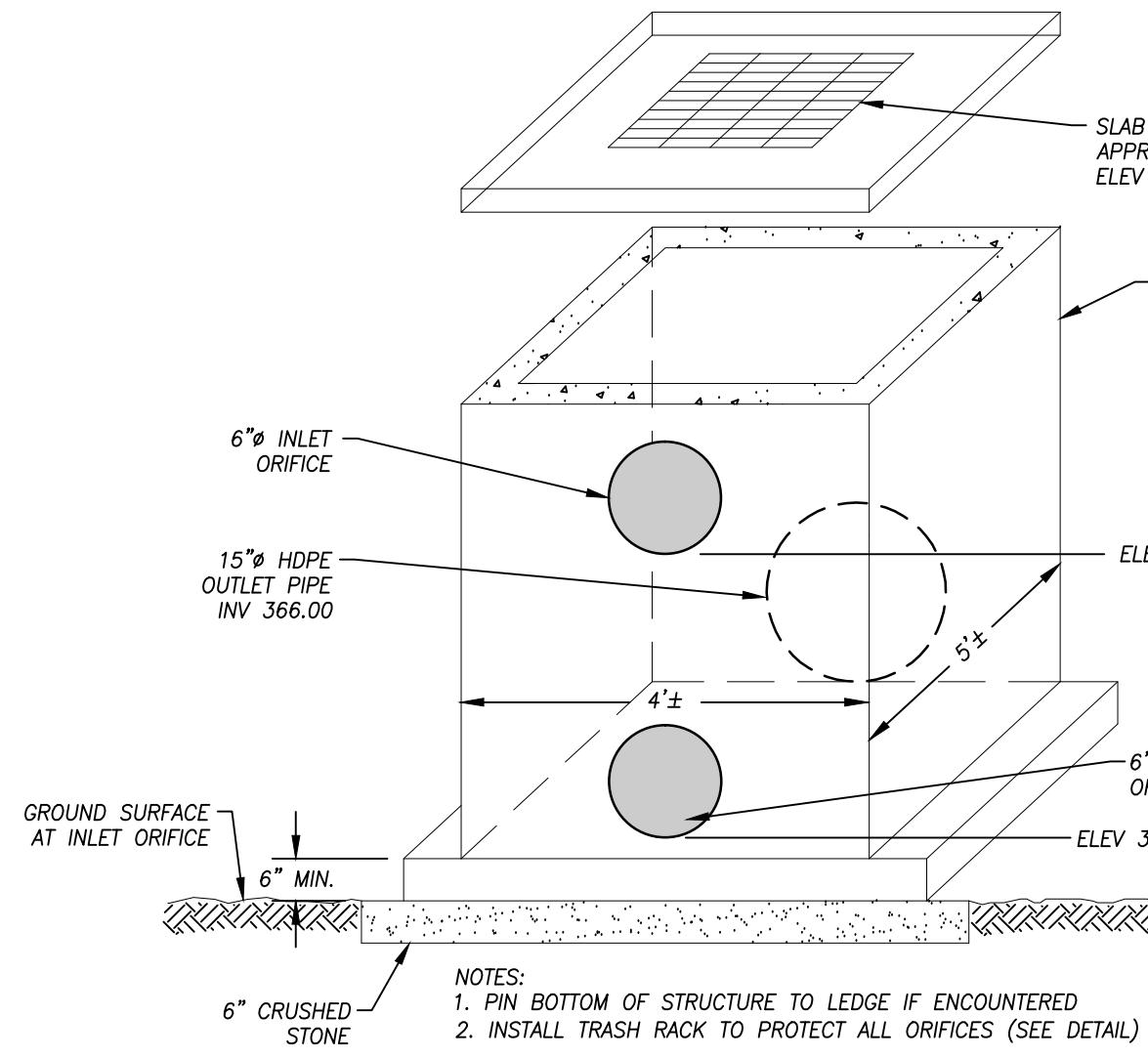
ALL PROPOSED EARTH SLOPES SHALL NOT EXCEED 3:1 HORIZONTAL TO VERTICAL. TOPSOIL WILL BE STOCKPILED ON SITE FOR REUSE IN CONJUNCTION WITH FINAL GRADING AND STABILIZATION. A MINIMUM OF 4" OF TOPSOIL WILL BE SPREAD OVER FINAL SLOPE AREAS AFTER REGRADING IS COMPLETED. THIS TOPSOIL WILL THEN BE SEED WITH GRASS AND MULCHED.

AN ANTI-TRACKING PAD, SEDIMENT FENCE AND STAKED HAY BALES WILL BE INSTALLED AT LOCATIONS SHOWN PRIOR TO ANY EARTHWORK OPERATIONS. THESE MEASURES WILL BE MAINTAINED UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. STONE CHECK DAMS WILL BE USED WHERE AREAS TO PREVENT EROSION AND SEDIMENTATION.

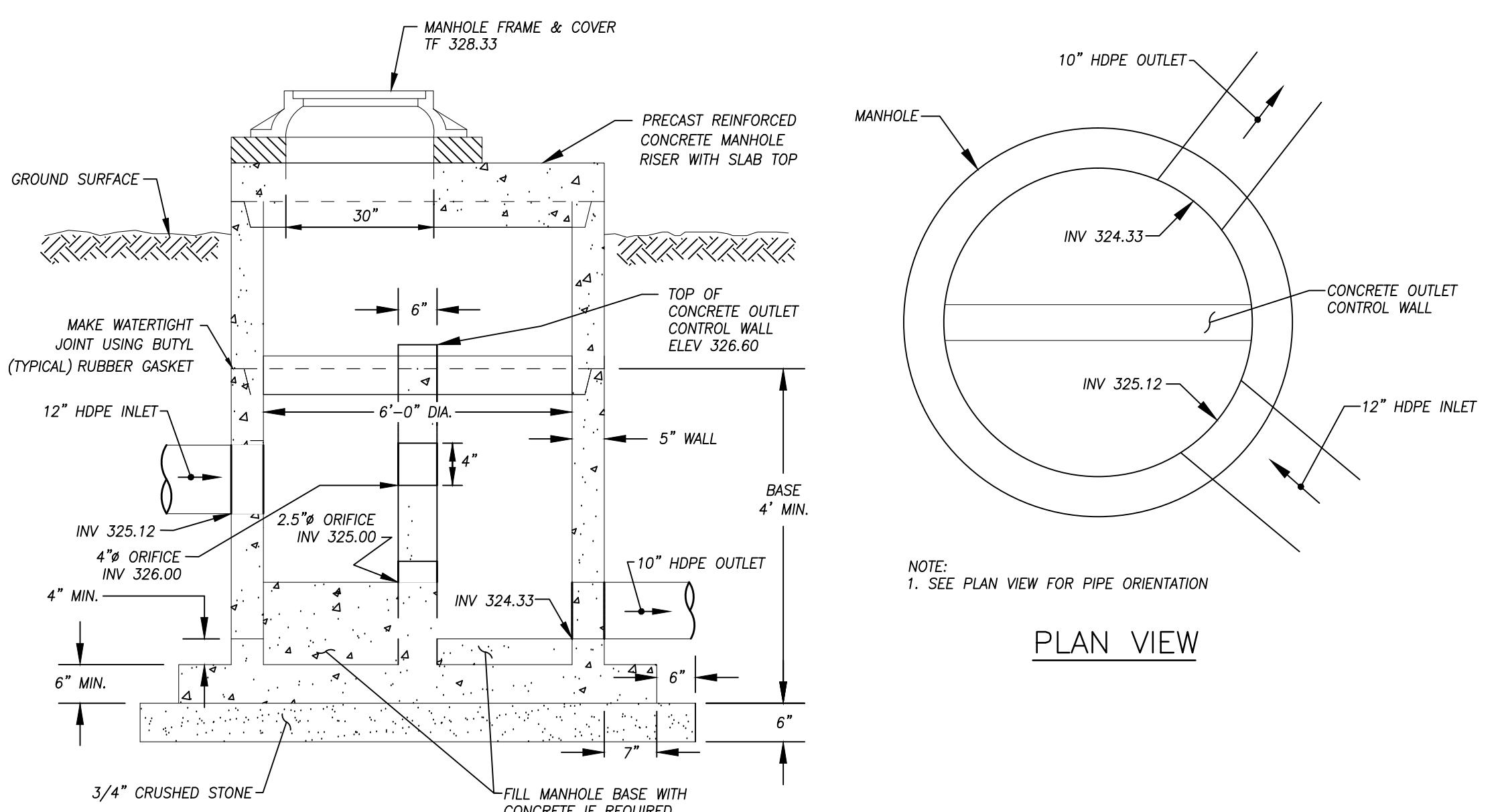
ANY STUMPS GRUBBED IN AREAS TO BE CLEARED SHALL BE DISPOSED OF OFF SITE. NO STUMPS OR OTHER WASTE MATERIALS SHALL BE ALLOWED TO BE BURIED ON SITE.

## CONSTRUCTION SEQUENCE

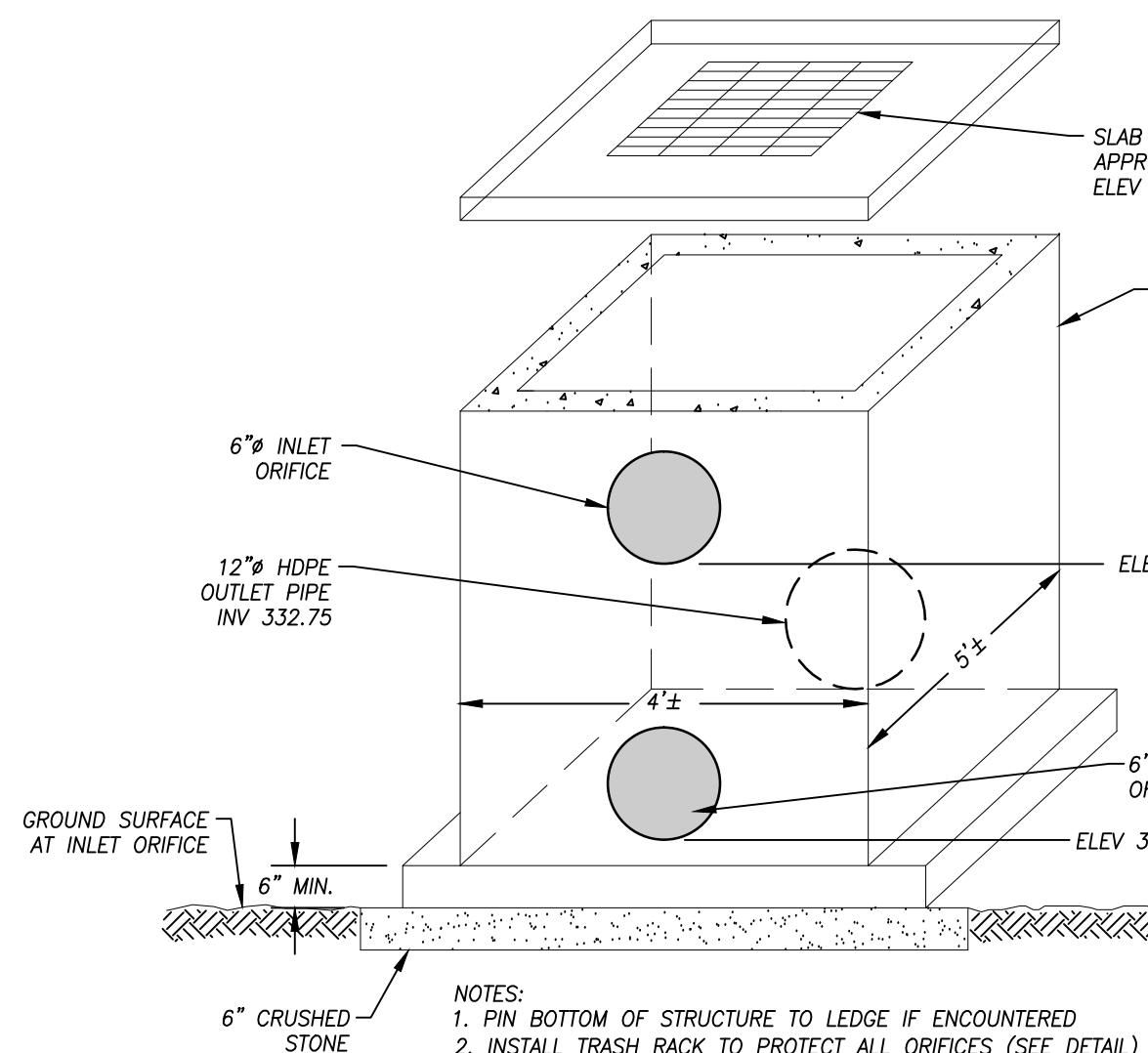
1. SECURE ALL NECESSARY LOCAL, STATE, AND FEDERAL PERMITS. REGISTER FOR ALL APPLICABLE STATE AND FEDERAL PERMITS AS REQUIRED.
2. INSTALL ANTI-TRACKING PAD AT CONSTRUCTION ENTRANCE FROM BRUSH HILL ROAD.
3. CLEAR AND REMOVE ALL TREES WITHIN THE PROPOSED CLEARING LIMITS. CHIP TREES FOR USE AS WOOD CHIP BERMS FOR EROSION CONTROL.
4. INSTALL WOOD CHIP BERMS AS SHOWN DOWN GRADIENT OF PROPOSED DEVELOPMENT AREA.
5. INSTALL CHAIN LINK SECURITY FENCE ALONG ENTIRE PERIMETER OF SOLAR FARM AND ACCESS ROAD.
6. GRUB STUMPS AND STRIP TOPSOIL ONLY AS REQUIRED TO INSTALL PROPOSED ACCESS DRIVE AND STORMWATER BASINS/TEMPORARY SEDIMENT TRAPS. STOCKPILE ALL TOPSOIL AT THE LOCATIONS INDICATED ON OTHER APPROVED LOCATION. SEED THESE STOCKPILES WITH RYERGRASS AND SURROUND WITH SEDIMENT FENCE OR WOOD CHIP BERM. ALL STUMPS ARE TO BE GROUNDED OR DISPOSED OF OFF-SITE. (MAXIMUM SOIL DISTURBANCE = 2.3 +/- ACRES)
7. 6.1. INSTALL STORMWATER BASINS/TEMPORARY SEDIMENT TRAPS, OUTLET CONTROL STRUCTURES, OUTLET PIPES, AND RIPRAP APRONS.
- 6.2. ROUGH GRADE (CUT AND FILL AS REQUIRED) ACCESS DRIVE, PLACE AND COMPACT DRIVEWAY BASE, INSTALL DRAINAGE/CROSS CULVERTS AS REQUIRED AND INSTALL TRAFFIC BOUND GRAVEL SURFACE FOR ACCESS DRIVE. STABILIZE ALL SIDE SLOPES AS SOON AS COMPLETED BY LOADING ALL DISTURBED AREAS (4" MINIMUM), SEED WITH GRASS/HYDROSEED AND MULCH. INSTALL STONE CHECK DAMS IN SWALE AREAS AT 50' ON CENTER (MAXIMUM SPACING).
7. GRUB STUMPS AND STRIP TOPSOIL AS REQUIRED FOR PROPOSED GRADING (PHASE 1) OF SOLAR ARRAY AREA. STOCKPILE ALL TOPSOIL AT THE LOCATIONS INDICATED ON OTHER APPROVED LOCATION. SEED THESE STOCKPILES WITH RYERGRASS AND SURROUND WITH SEDIMENT FENCE OR WOOD CHIP BERM. STUMPS ARE TO BE GROUNDED OR DISPOSED OF OFF-SITE. (MAXIMUM SOIL DISTURBANCE = 4.9 +/- ACRES)
- 7.1. GRADE PHASE 1 AREA TO PLAN WITH MAXIMUM SLOPES NOT TO EXCEED 7% AND ASSOCIATED SIDE SLOPES NOT GREATER THAN 3.1% IMPORT, PLACE AND COMPACT SUITABLE CLEAN FILL MATERIAL AS REQUIRED TO ACCOMPLISH GRADING FOR SOLAR ARRAY AREAS.
- 7.2. LOAM ALL DISTURBED PHASE 1 AREAS (4" MINIMUM), SEED WITH GRASS AND MULCH.
8. GRUB STUMPS AND STRIP TOPSOIL AS REQUIRED FOR PROPOSED GRADING (PHASE 2) OF SOLAR ARRAY AREA. STOCKPILE ALL TOPSOIL AT THE LOCATIONS INDICATED ON OTHER APPROVED LOCATION. SEED THESE STOCKPILES WITH RYERGRASS AND SURROUND WITH SEDIMENT FENCE OR WOOD CHIP BERM. STUMPS ARE TO BE GROUNDED OR DISPOSED OF OFF-SITE. (MAXIMUM SOIL DISTURBANCE = 4.3 +/- ACRES)
- 8.1. GRADE PHASE 2 AREA TO PLAN WITH MAXIMUM SLOP



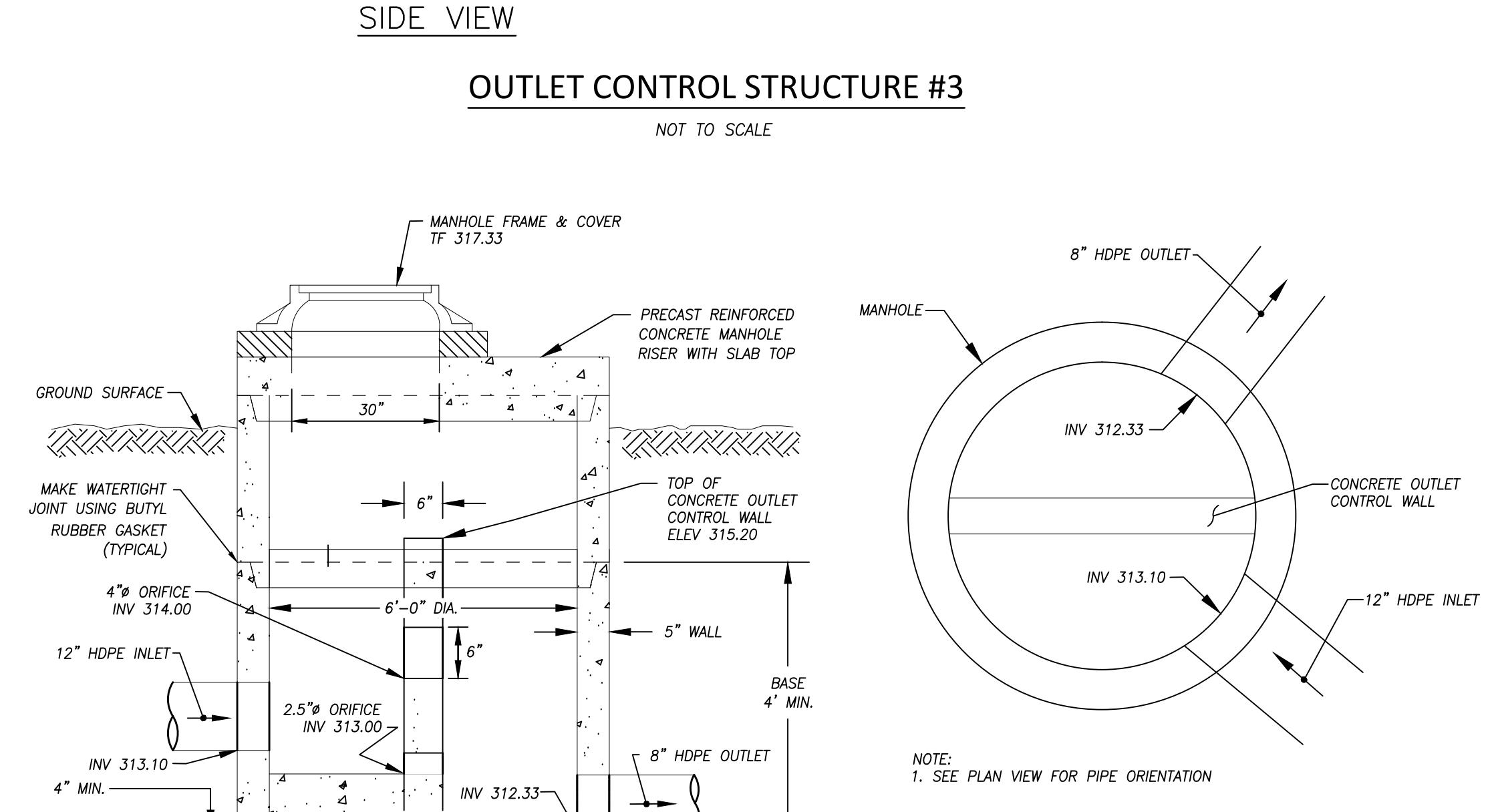
OUTLET CONTROL STRUCTURE #1



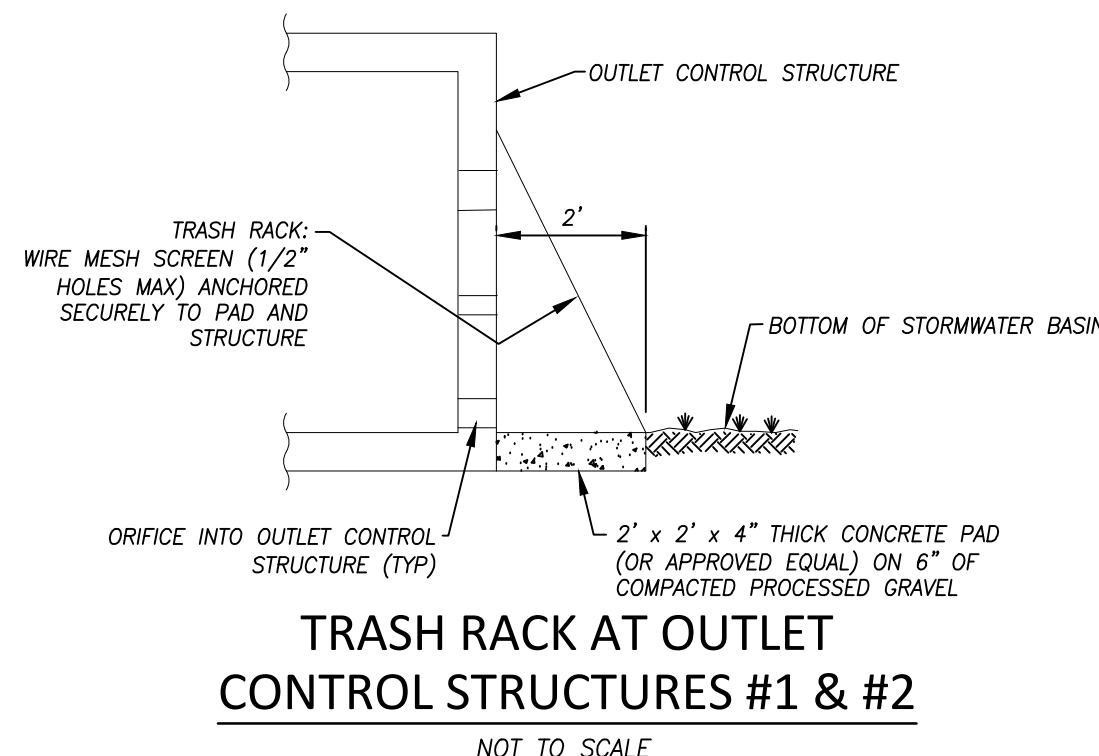
PLAN VIEW



OUTLET CONTROL STRUCTURE #2



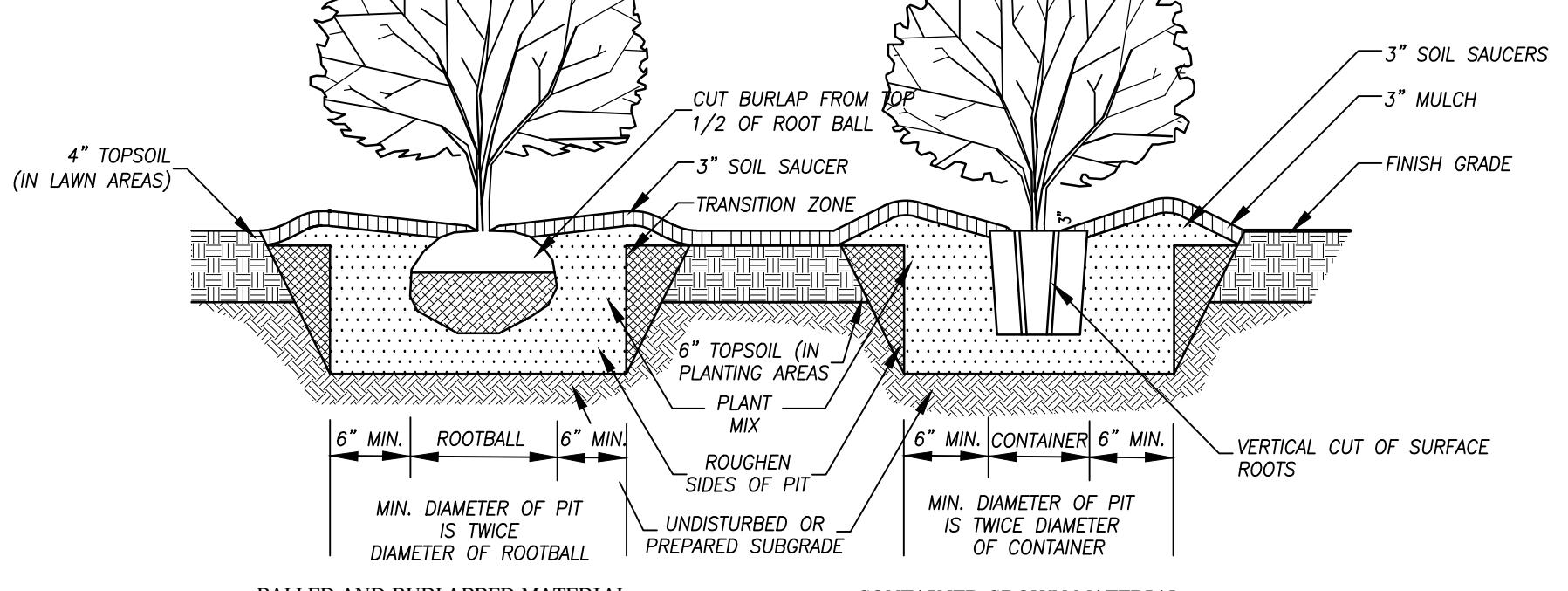
PLAN VIEW



TRASH RACK AT OUTLET CONTROL STRUCTURES #1 &amp; #2

## PLANTING SPECIFICATIONS:

- All materials and construction methods shall conform to the requirements of the Connecticut Association of Landscape Contractors Specification. All plants shall be nursery grown and conform to the latest edition of ANSI 260.1, AMERICAN STANDARD FOR NURSERY STOCK and also the minimum guidelines established for nursery stock published by the American Association of Nurserymen, Inc.
- No substitution of plant materials will be allowed without the prior written consent of the Project Owner. Where a plant size range is provided at least 50% of the plants shall be of the larger size.
- All lawn and planting area soil preparation shall be fertilized and amended according to recommendations of a soil analysis provided by an approved soil testing laboratory.
- All exterior ground areas disturbed by construction and not covered by buildings, structures, paving, continuous planting beds or other site improvements shall be graded, topsoiled to a minimum depth of 4" and grass seeded. Provide lawn development in all areas of selective clearing as directed.
- All plant pits must be free draining. Break up the bottom of the hole by fork if necessary to ensure plant has proper drainage.
- Set all plants in center of plant pits, plumb and straight and as detailed on the drawing. All plant material shall bear the same relationship to finished grade as to original planting grade prior to digging. Trees shall be planted with the junction of roots and stem level with finished grade.
- Handle balled and burlapped plants from the ball only. Once positioned in the hole, remove the top 1/3 of the burlap from the root ball without disturbing the roots.

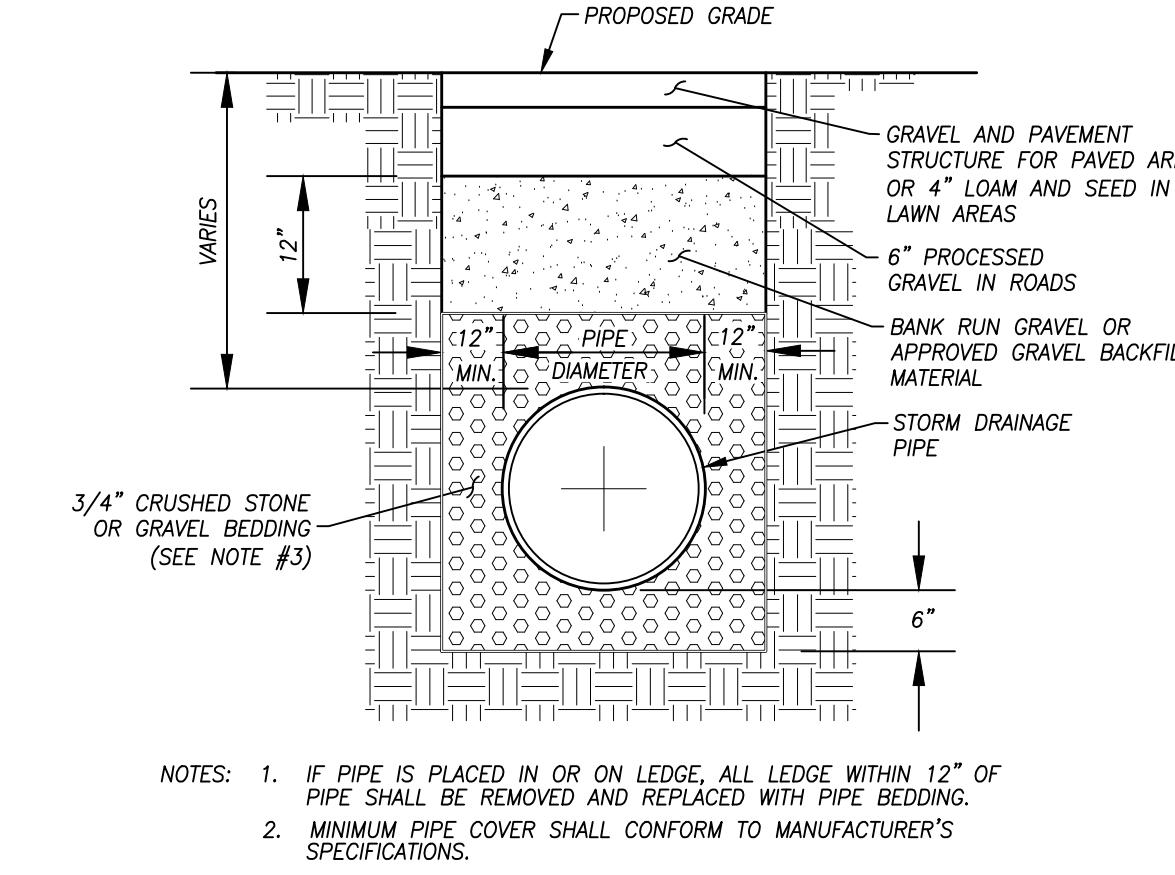


BALLED AND BURLAPPED MATERIAL

NOTES:  
1. SET CROWN OF FOOTBALL 2" ABOVE FINISH GRADE.  
2. FOR CONTAINER GROWN STOCK USE FINGERS OR A SHARP KNIFE TO LOOSEN ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.  
3. AT PLANTING THOROUGHLY SOAK THE ROOT MASS AND ADJACENT SOIL. REPEAT SEVERAL TIMES DURING THE FIRST MONTH AND THROUGHOUT THE FOLLOWING TWO SUMMERS.

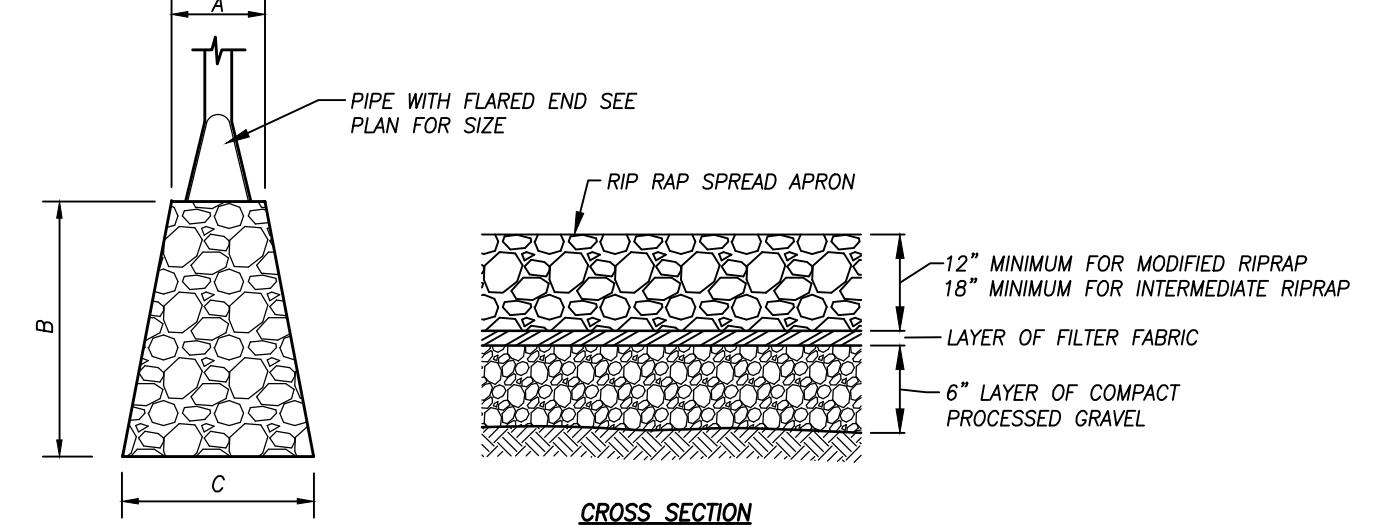
SHRUB PLANTING DETAIL

NOT TO SCALE



STORM PIPE TRENCH

NOT TO SCALE



CROSS SECTION

SPREAD APRON TABLE					
PIPE TYPE	A	B	C	RIP RAP SIZE	TYPE
CULVERT #1	12"	5'	5'	5"	INLET
CULVERT #1	12"	5'	14"	17"	MODIFIED OUTLET
CULVERT #2	12"	5'	5'	5"	INLET
CULVERT #2	12"	5'	14"	17"	MODIFIED OUTLET
CULVERT #3	15"	5'	5'	5"	INTERMEDIATE INLET
CULVERT #3	15"	5'	19"	23"	INTERMEDIATE OUTLET
CULVERT #4	12"	5'	5"	5"	INLET
CULVERT #4	12"	5'	14"	17"	MODIFIED OUTLET
FE #1	15"	5'	18"	20"	MODIFIED OUTLET
FE #2	12"	4'	13"	16"	MODIFIED OUTLET
FE #3	10"	3'	11"	13"	MODIFIED OUTLET
FE #4	8"	3'	12"	15"	MODIFIED OUTLET

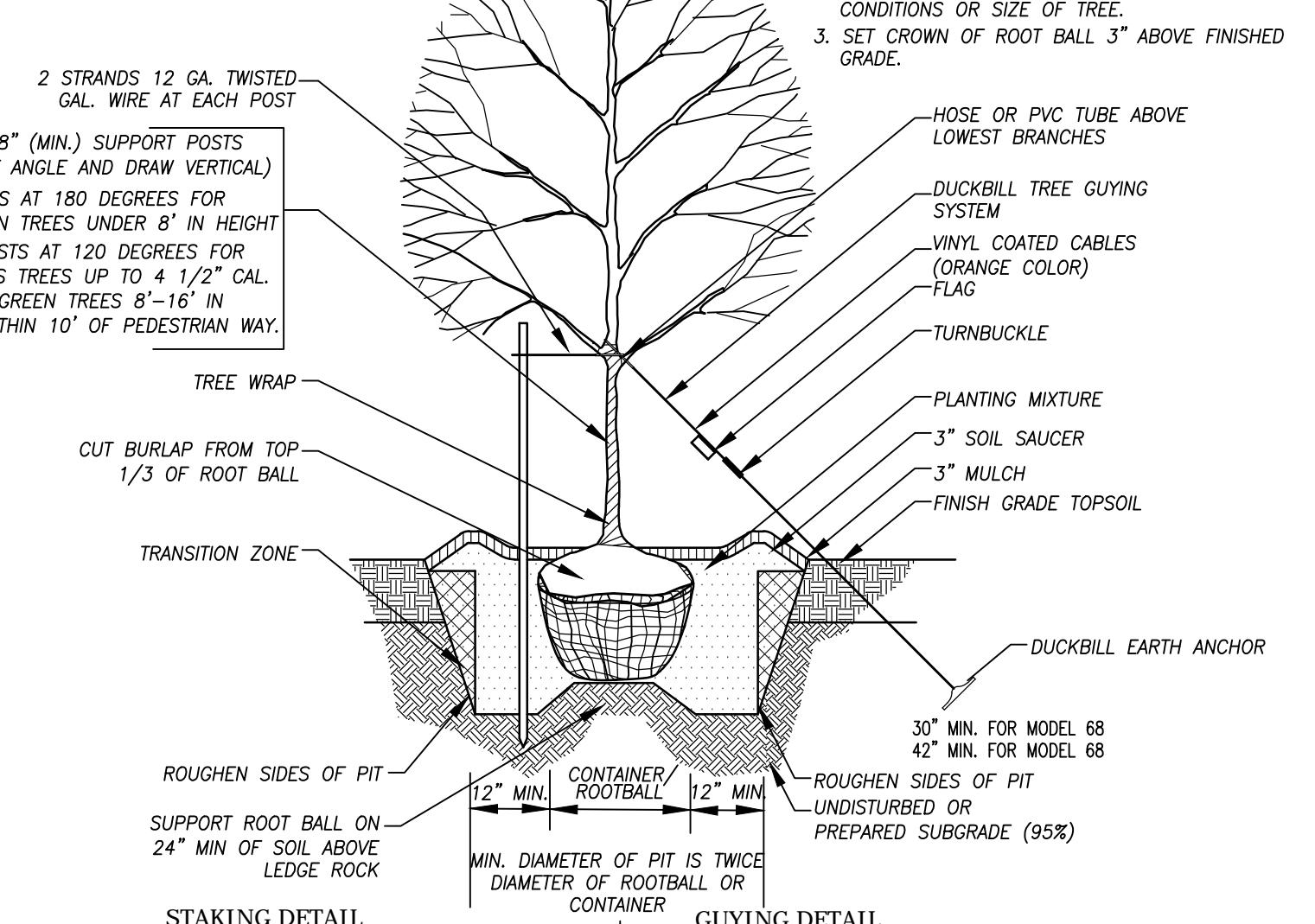
APRON DESIGN BASED ON 2000 CONNOD DRAINAGE MANUAL

RIP RAP SPREAD APRON DETAIL

NOT TO SCALE

LANDSCAPE SCHEDULE					
SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	COMMENT
TREES AND SHRUBS					
ILOP	Ilex Opaca	American Holly	3 Gal.	49	G.G.
THOC2	Thuja (Standishii x Plicata)	"Green Giant" Arborvitae	5'-6' Height	28	C.G.

NOTES:  
1. SET TREE PLUMB PRIOR TO STAKING OR GUYING.  
2. THIS DETAILS ILLUSTRATES THE MINIMUM REQUIRED STAKING OR GUYING SYSTEM. PROVIDE ADDITIONAL STAKES OR GUYS IF REQUIRED DUE TO FIELD CONDITIONS OR SIZE OF TREE.  
3. SET CROWN OF ROOT BALL 3" ABOVE FINISHED GRADE.



STAKING DETAIL

FOR USE WITH:

- DECIDUOUS TREES 3"-4 1/2" CALIPER WHEN PLANTED GREATER THAN 10' OUTSIDE OF PEDESTRIAN WAYS.
- DECIDUOUS TREES 3"-4 1/2" CALIPER WHEN PLANTED WITHIN 10' OF PEDESTRIAN WAYS.
- EVERGREEN TREES 8"-16' IN HEIGHT WHEN PLANTED GREATER THAN 10' OUTSIDE OF PEDESTRIAN WAYS.
- EVERGREEN TREES 8"-16' IN HEIGHT WHEN PLANTED WITHIN 10' OF PEDESTRIAN WAYS.
- EVERGREEN TREES OVER 16' IN HEIGHT.

TREE PLANTING DETAIL

NOT TO SCALE

## Improvement Location &amp; Topographic Survey

"Stormwater Management Details"

Prepared for

Brightfields Development LLC

Brush Hill Road, Bozrah, Connecticut

SHEET NO.

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