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September 26, 2011

To: Diane Carlton, NYSDEC, Region 7 (1 PDF)
Holly Sammon, Onondaga County Public Library (1 bound)
Samuel Sage, Atlantic States Legal Foundation (1 bound)
Joseph J. Heath, Esq., Onondaga Nation (cover letter)

Re: Letter of Transmittal – Semet Residue Ponds Repository Addition

The below document has been approved by the New York State Department of Environmental Conservation (NYSDEC) and is enclosed for your document holdings:

- Landscape Improvements Letter Work Plan dated May 9, 2011

Sincerely,

John P. McAuliffe by CCC

John P. McAuliffe, P.E.
Program Director, Syracuse

Enc.

cc: Tracy A. Smith - NYSDEC

New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau D, 12th Floor
625 Broadway, Albany, New York 12233-7013
Phone: (518) 402-9676 • Fax: (518) 402-9020
Website: www.dec.ny.gov



May 25, 2011

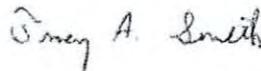
Mr. John P. McAuliffe, P.E.
Honeywell International, Inc.
301 Plainfield Road
Suite 330
Syracuse, NY 13212

Re: Ballfield/Willis Avenue/Semet Ponds Site Improvements Design Project and Landscape
Restoration Berm Surface Soil Sampling Work Plan

Dear Mr. McAuliffe:

The New York State Department of Environmental Conservation has reviewed the "Ballfield/Willis Avenue/Semet Ponds Site Improvements Design Project" and "Ballfield/Willis Avenue/Semet Ponds Landscape Restoration Berm Surface Soil Sampling Work Plan" dated May 9, 2011. Based on our review, these documents are approved. However, please note that any improvements performed may be impacted by the final remedies that will be selected in the Records of Decision for these sites. If you have any questions, please contact me at 518-402-9796.

Sincerely,



Tracy A. Smith
Project Manager

ecc: J. Gregg, NYSDEC
H. Kuhl
T. Joyal, Esq.
G. Laccetti, NYSDOH
F. Kirshner

R. Nunes, USEPA
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T. Conklin, OBG



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May 9, 2011

Mr. Tracy A. Smith
Project Manager
New York State Department of Environmental Conservation
Remedial Bureau D
625 Broadway
Albany, New York 12233-7016

Re: Ballfield/Willis Avenue/Semet Ponds Site Improvements Project, Town of Geddes, Onondaga County, New York

Dear Mr. Smith:

This letter presents the Work Plan for landscape improvements at the Ballfield, Willis Ave., and Semet Ponds sites (Sites; **Sheet G-2**). This work will be voluntarily performed by Honeywell in coordination with the Causeway Area Restoration Design (Honeywell 2011a) in order to facilitate consistency between the north and south sides of the I-690 corridor. The drainage ditch in front of the Willis Avenue and Semet Ponds sites along State Fair Boulevard will be addressed as part of the I-690 Phase 4 remedial effort.

A soil sampling plan (Honeywell 2011b) has been submitted to support this design. If results of the sampling suggest that design modifications are needed, addenda to this work plan will be submitted as necessary to the NYSDEC.

This letter Work Plan contains the following sections:

1. Introduction
2. Design Parameters
3. Schedule
4. References
5. Contract Drawings

Introduction

The Ballfield, Willis Avenue, and Semet Ponds sites extend in this order from east to west along I-690 and State Fair Blvd.—two roads that together accommodate approximately 55,000 vehicles per day (SMTC 2003-2008). As motorists pass by these Sites, they view extensive areas dominated by invasive species with low aesthetic value. Hence, the overall goal of the Site Improvements Project is to increase the aesthetic and ecological value of the I-690 corridor in the vicinity of the project Sites.

The Project design comprises approximately 3.8 acres spread across the northern portions of the Sites.

Design Parameters

Across Sites

In general, the following activities are proposed for as part of the Site Improvements Project:

1. remove existing vegetation across the limits of work
2. apply six inches of soil on top of existing soils

3. limit work to northern portions of each site in order to avoid fill materials and/or future remediation areas
4. introduce to the Sites 54 native grass and forb species, including some that are rare in New York State
5. plant approximately 30 species of native trees and shrubs

These activities are detailed in the attached Contract Drawing set.

Semet Ponds

The following activities are proposed for the Semet Ponds site, in addition to numbers (1) through (3) above:

- replace and realign fencing to the top of the Semet Ponds berm
- introduce tall and low meadow plant communities by hydroseeding or equivalent.

The proposed work at Semet Ponds is limited to the northern berm (*i.e.*, approximately 2000 ft. from the northwest to northeast corners of the site, maximum of 80 ft. south from State Fair Blvd.). Currently the berm is largely dominated by buckthorn (*Rhamnus cathartica*)—an invasive, unattractive species. Boring logs indicate that the berm soils (to a minimum of 8 ft. depth) are comprised of miscellaneous fill (cinders, sand, and gravel; Honeywell 2009). While the target species (Tables 1 and 2 on Sheet G-1 of the Contract Drawings) could tolerate these conditions, import of 6 inches of soil is proposed in order to provide an optimal seed bed and to smother the buckthorn seed bank. This invasive species, as well as others, will be controlled while the target species canopy closes—a process that is anticipated to take three to five years. After this time, colonization by invasive species and need for control is anticipated to be substantially reduced. Control will be provided by mechanical (*e.g.*, mowing, digging) or chemical (*e.g.*, targeted use of NYSDEC-approved herbicides) as necessary.

The tall meadow community includes 29 native species and it, along with the fence replacement and realignment, is intended to increase aesthetic value of the Semet Berm. Species selection is intended to provide interest throughout the growing season and into the winter as the mature native grasses will provide standing structure under typical snowfalls. The low meadow target community is described in the subsequent subsection.

Willis Avenue

The proposed limits of work at Willis Avenue extend approximately 900 feet from the northeastern corner of the Semet Ponds site along State Fair Blvd. and Willis Ave., terminating at the driveway to the ground water treatment plant. In general, site improvements work is proposed to extend south approximately 40 feet from State Fair Blvd. into the site. The southern extent of the proposed work was decided based on a tradeoff between performing work across a sufficient area to have a strong aesthetic impact and avoiding areas with known soil contamination. While the Willis Avenue RI (O'Brien & Gere 2002) provides some detail to guide selection of the southern limits of work, additional soil sampling will be performed (Honeywell 2011b) in order to better identify constraints associated with the southern limits of work. Addenda to this work plan will be presented as necessary given the findings of this soil sampling.

The following activities are proposed for this site, in addition to numbers (1) through (3) specified across sites:

- replace and realign fencing to interior portions of the site, approximate 40 feet south from State Fair Blvd.
- introduce a low meadow plant community by hydroseeding or equivalent
- plant 17 species of trees and shrubs.

The low meadow community includes 30 low-growing herbaceous species intended to add seasonal interest to the site and to complement the woody species, which were selected and placed to provide screening and additional visual appeal. Species were selected to tolerate the poor soil on site, as limited effort beyond the soil import will be expended on improving soil conditions.

Ballfield

The proposed limits of work at the Ballfield site extent from Willis Ave. east for 750 feet along the northern portion of this site. Similar to the Semet Ponds site, the southern limit of work was set at the top of the site berm, *i.e.*, 50 to 70 feet from State Fair Blvd. shoulder. The following activities are proposed for this site, in addition to numbers (1) through (3) specified across sites:

- introduce the low meadow plant community by hydroseeding or equivalent
- plant 18 species of trees and shrubs

The Ballfield planting plan is relatively open in order to maintain and enhance views of Onondaga Lake.

Schedule

A preliminary schedule for the investigation activities is provided as **Figure 1**.

Please contact Christopher Calkins of O'Brien & Gere or me if you have any questions or comments.

Sincerely,


John P. McAuliffe, P.E.
Program Director, Syracuse

Attachments (2 copies, 1 CD)

cc:	Argie Cirillo, Esq.	USEPA (ltr only)
	Margaret A. Sheen, Esq.	NYSDEC, Region 7 (ltr only)
	Mr. Robert Nunes	USEPA (1 copy, 1CD)
	Mr. Richard Mustico	NYSDEC (1 copy)
	Mr. Geoffrey J. Laccetti	NYSDOH (ec or ec ltr only)
	Mr. Steven Bates	NYSDOH (1 copy, 1 CD)
	Mr. Harry Warner	NYSDEC, Region 7 (1 copy, 1 CD)
	Brian D. Israel, Esq.	Arnold & Porter (ec or CD)
	Mr. William Hague	Honeywell (ec)
	Mr. Alfred J. Labuz	Honeywell (ltr only)
	Joseph J. Heath, Esq.	Onondaga Nation (ec ltr only)
	Thane Joyal, Esq.	Onondaga Nation (ec ltr only)
	Mr. Fred Kirschner	AESE, Inc. (ec or CD)
	Ms. Jeanne Shenandoah	Onondaga Nation (1 copy and ec ltr only)
	Ms. Heidi Kuhl	Onondaga Nation (1 copy)
	Mr. Curtis Waterman	Onondaga Nation (ec ltr only)
	Ms. Alma Lowry	Onondaga Nation (ec ltr only)
	Mr. Steven Miller	Parsons (CD/hc cov ltr)
	Mr. Thomas Conklin	O'Brien & Gere (ec ltr only)
	Mr. Christopher Calkins	O'Brien & Gere (ec ltr only)

References

O'Brien & Gere. 2002. *Willis Avenue Chlorobenzene Site Remedial Investigation*. Prepared for Honeywell, Morristown, NJ. October 2002.

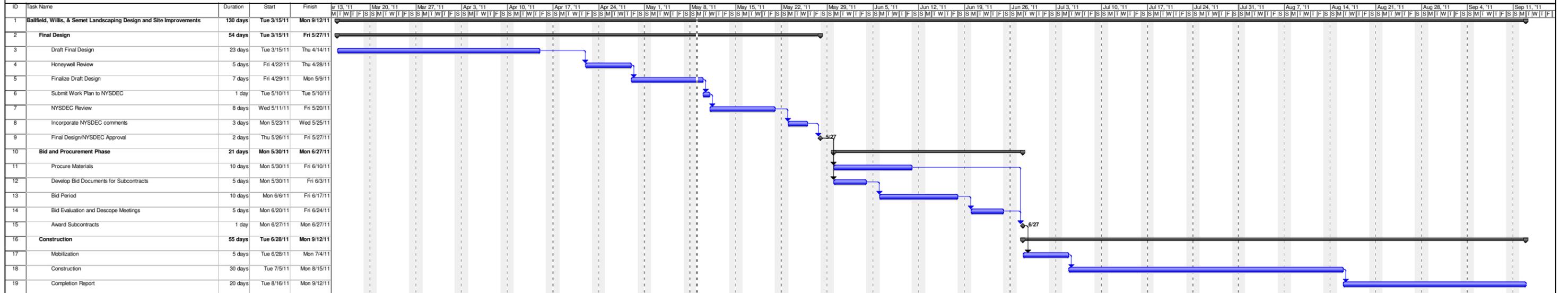
Honeywell. 2009. *Semet Residue Ponds Revised Berm Stability Evaluation*. Letter from A. Labuz to T. Smith. July 13, 2009. New York State Department of Environmental Conservation, Division of Environmental Remediation, Albany, NY.

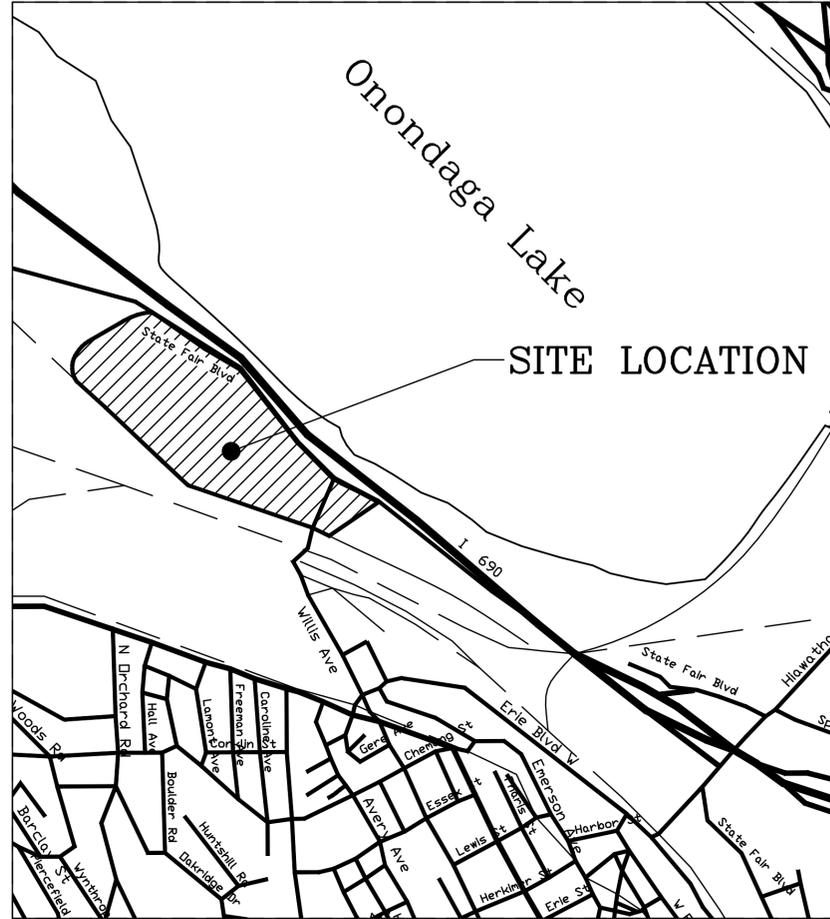
Honeywell. 2011a. *RE: Willis Avenue Lakeshore Barrier Wall IRM (Site No.: 734026), Willis Semet IRM Restoration Work Plan, Village of Solvay, Onondaga County, NY, Order on Consent: Index # D7-0004-01-09*. Letter to R. Mutisco from A. Labuz. April 21, 2011. New York State Department of Environmental Conservation, Division of Environmental Remediation, Albany, NY.

Honeywell. 2011b. *Re: Ballfield/Willis Avenue/Semet Ponds Landscape Restoration Berm Surface Soil Sampling Work Plan*. Letter to R. Mutisco from J. McAuliffe. May 9, 2011. New York State Department of Environmental Conservation, Division of Environmental Remediation, Albany, NY.

Syracuse Metropolitan Transportation Council (SMTTC). 2003-2008. *Traffic counts for the SMTTC MPA (Village of Geddes)*. Available at <http://www.smtcmtpo.org/data/TrafficCounts/?muni=Geddes&munitype=Village>. 1/18/2010.

Figure 1
Ballfield/Willis Avenue/Semet Ponds
Site Improvements Project
Geddes, NY
Schedule





CONTRACT DRAWINGS

HONEYWELL INTERNATIONAL INC. WILLIS/SEMET/BALLFIELD SITE IMPROVEMENTS/LANDSCAPING TOWN OF GEDDES, NEW YORK

APRIL 2011



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- LS-4 LANDSCAPE PLAN
- MD-1 MISCELLANEOUS DETAILS

Table 1: Low meadow seed mix.

Species	Common name	Pounds per acre
<i>Agropyron smithii</i>	Western Wheat Grass	10
<i>Agropyron trachycaulum</i>	Slender Wheat Grass	10
<i>Agrostis hyemalis</i>	ticklegass	10
<i>Lolium multiflorum</i>	annual rye	10
<i>Bromus kalmii</i>	prairie brome	8
<i>Koeleria cristata</i>	June Grass	5
<i>Stipa viridula</i>	Green Needle Grass	5
<i>Asclepias tuberosa</i>	Butterfly Weed	1
<i>Baptisia leucantha</i>	White Wild Indigo	1
<i>Cassia fasciculata</i>	Partridge Pea	1
<i>Petalostemum candidum</i>	White Prairie Clover	1
<i>Petalostemum purpureum</i>	Purple Prairie Clover	1
<i>Rudbeckia hirta</i>	Black-eyed Susan	1
<i>Aster lateriflorus</i>	Calico Aster	1
<i>Hordeum jubatum</i>	Squirrel-tail Grass	1
<i>Muhlenbergia mexicana</i>	Leafy Satin Grass	1
<i>Muhlenbergia racemosa</i>	Upland Wild Timothy	1
<i>Echinacea purpurea</i>	Purple Coneflower	1
<i>Monarda fistulosa</i>	Wild Bergamot	1
<i>Anemone cylindrica</i>	Thimbleweed	0.5
<i>Aster linariifolius</i>	Stiff Aster	0.5
<i>Galium boreale</i>	Northern Bedstraw	0.5
<i>Lactuca pulchella</i>	Showy Blue Lettuce	0.5
<i>Oenothera pilosella</i>	Prairie Sundrops	0.5
<i>Aster ericoides</i>	Heath Aster	0.5
<i>Fragaria virginiana</i>	Wild Strawberry	0.5
<i>Aster laevis</i>	Smooth Blue Aster	0.5
<i>Aquilegia canadensis</i>	Columbine	0.2
<i>Echinacea angustifolia</i>	Narrow-leaved Coneflower	0.2
<i>Zizia aptera</i>	Heart-leaf Golden Alexanders	0.2
<i>Juncus tenuis</i>	Path Rush	0.1
Total pounds per acre		74.7

Table 2: Tall meadow seed mix.

Species	Common name	Pounds per acre
<i>Panicum virgatum</i>	Switch Grass	12
<i>Elymus canadensis</i>	Canada Wild Rye	10
<i>Lolium multiflorum</i>	annual rye	10
<i>Andropogon gerardii</i>	Big Bluestem	8
<i>Tridens flavus</i>	Purpletop	8
<i>Sorghastrum nutans</i>	Indian Grass	6
<i>Sporobolus asper</i>	Rough Dropseed	5
<i>Sporobolus heterolepis</i>	Northern Dropseed	5
<i>Calamagrostis canadensis</i>	bluejoint	5
<i>Agropyron smithii</i>	Western Wheat Grass	5
<i>Agropyron trachycaulum</i>	Slender Wheat Grass	5
<i>Bromus ciliatus</i>	Fringed Brome	1
<i>Bromus kalmii</i>	Prairie Brome	1
<i>Silphium terebinthinaceum</i>	Prairie Dock	1
<i>Silphium laciniatum</i>	Compass Plant	1
<i>Aster laevis</i>	Smooth Blue Aster	0.5
<i>Aster simplex</i>	Panicled Aster	0.5
<i>Echinacea purpurea</i>	Purple Coneflower	0.5
<i>Hypericum prolificum</i>	Shrubby St. John's Wort	0.5
<i>Monarda fistulosa</i>	Wild Bergamot	0.5
<i>Oenothera biennis</i>	Common Evening Primrose	0.5
<i>Veronicastrum virginicum</i>	Culver's Root	0.5
<i>Oenothera pilosella</i>	Prairie Sundrops	0.5
<i>Helianthus maximiliani</i>	Maximilian's Sunflower	0.5
<i>Aster azureus</i>	Sky Blue Aster	0.1
<i>Aster novae-angliae</i>	New England Aster	0.1
<i>Echinacea pallida</i>	Pale Purple Coneflower	0.1
<i>Vernonia noveboracensis</i>	New York Ironweed	0.1
<i>Lespedeza capitata</i>	Round-headed Bush Clover	0.1
<i>Helopsis helianthoides</i>	Early Sunflower	0.1
Total pounds per acre		88.1

Table 3: Tree and shrub species list. All species shall be ordered as 12 inch minimum pots

Symbol	Species	Common name	Number needed	Spacing (ft.)
AS	<i>Platanus occidentalis</i>	American sycamore	4	8
NB	<i>Viburnum lentago</i>	nannyberry	14	4
BC	<i>Aronia melanocarpa</i>	black chokeberry	6	4
BG	<i>Nyssa sylvatica</i>	black gum	2	8
BH	<i>Diervilla lonicera</i>	bush honeysuckle	26	4
BN	<i>Staphylea trifolia</i>	bladdernut	10	4
BO	<i>Quercus macrocarpa</i>	bur oak	1	8
CJ	<i>Juniperus communis</i>	common juniper	33	8
CO	<i>Quercus muhlenbergii</i>	chinkapin oak	1	8
CS	<i>Symphoricarpos albus</i>	common snowberry	2	4
EB	<i>Sambucus canadensis</i>	elderberry	4	4
EN	<i>Physocarpus opulifolius</i>	eastern ninebark	3	4
ERC	<i>Juniperus virginiana</i>	Eastern red cedar	13	8
FS	<i>Rhus aromatica</i>	fragrant sumac	18	4
VP	<i>Pinus virginiana</i>	Virginia pine	4	8
KC	<i>Gymnocladus dioicus</i>	Kentucky coffeetree	3	8
PC	<i>Prunus pensylvanica</i>	pin cherry	2	8
PP	<i>Pinus rigida</i>	pitch pine	10	8
RC	<i>Aronia arbutifolia</i>	red chokeberry	10	4
RM	<i>Acer rubrum</i>	red maple	7	8
RS	<i>Amelanchier stolonifera</i>	running serviceberry	12	4
WH	<i>Hamamelis virginiana</i>	witch hazel	3	4
SC	<i>Potentilla fruticosa</i>	shrubby cinquefoil	7	4
SF	<i>Sassafras albidum</i>	sassafras	7	8
SH	<i>Carya ovata</i>	shagbark hickory	3	8
DWS	<i>Aralia spinosa</i>	devil's walking stick	2	4
WO	<i>Quercus alba</i>	white oak	3	8
RP	<i>Pinus resinosa</i>	red pine	13	8
WS	<i>Picea glauca</i>	white spruce	5	8
GB	<i>Betula populifolia</i>	gray birch	4	8
Total			232	

Table 4: Total pounds of seed mix needed for various planting areas.

Seeding area	Acreage	Seeding rate (pounds per acre)	Total pounds of seed mix needed
Tall meadow	1.54	86.1	132.59
Low meadow 1	1.34	74.7	100.10
Low meadow 2	0.81	74.7	60.51

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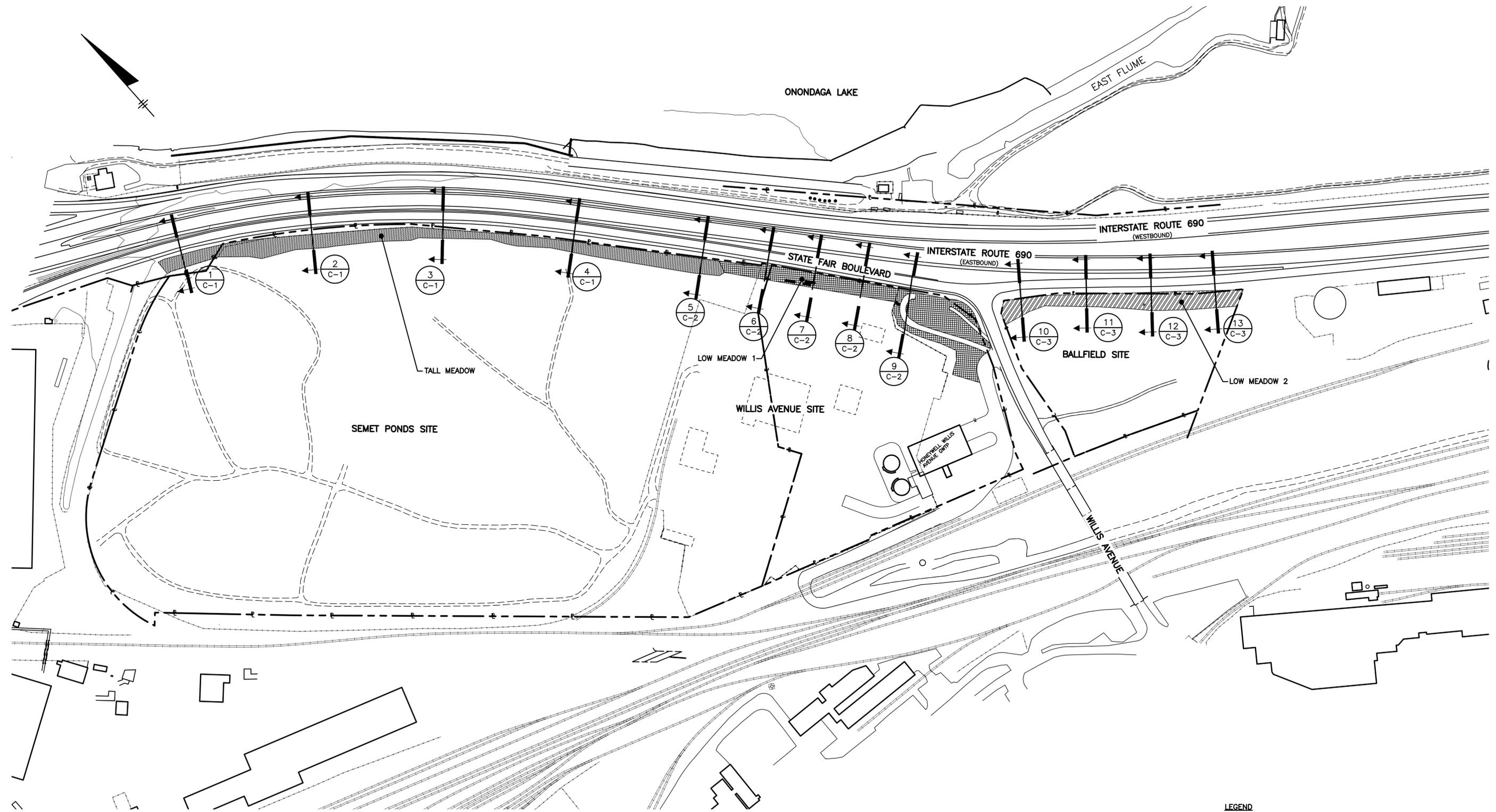
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HONEYWELL INTERNATIONAL INC.
 WILLIS/SEMET/BALLFIELD
 SITE IMPROVEMENTS/LANDSCAPING
 TOWN OF GEDDES, NEW YORK

GENERAL
 LANDSCAPE NOTES

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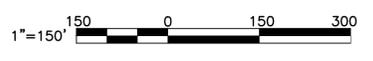
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LEGEND

-  TALL MEADOW
-  LOW MEADOW 1
-  LOW MEADOW 2

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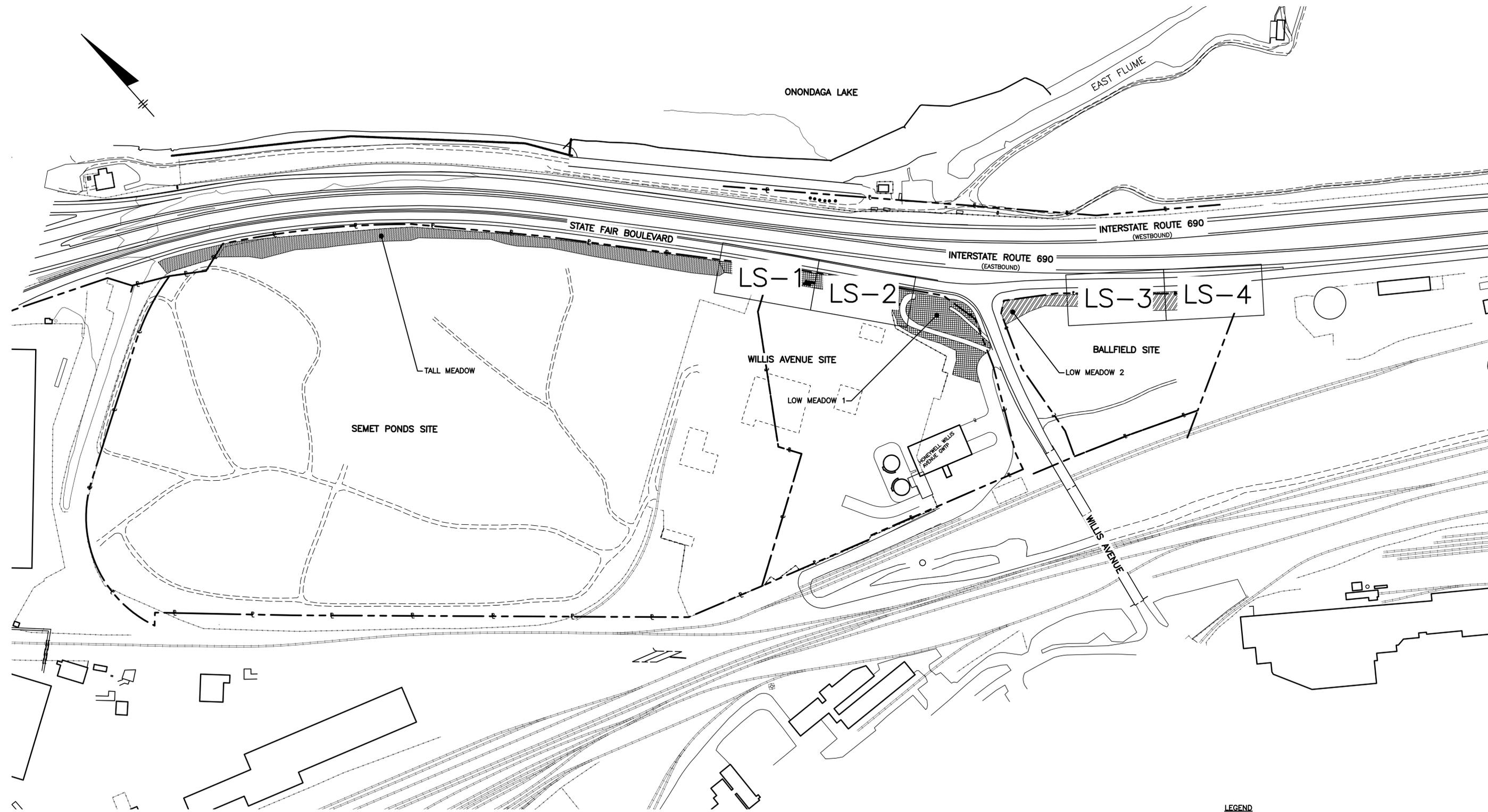


HONEYWELL INTERNATIONAL INC.
WILLIS/SEMET/BALLFIELD
SITE IMPROVEMENTS/LANDSCAPING
TOWN OF GEDDES, NEW YORK

GENERAL
OVERALL SITE PLAN

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G-2



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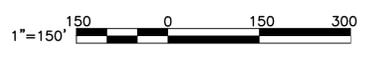
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LEGEND

	TALL MEADOW
	LOW MEADOW 1
	LOW MEADOW 2

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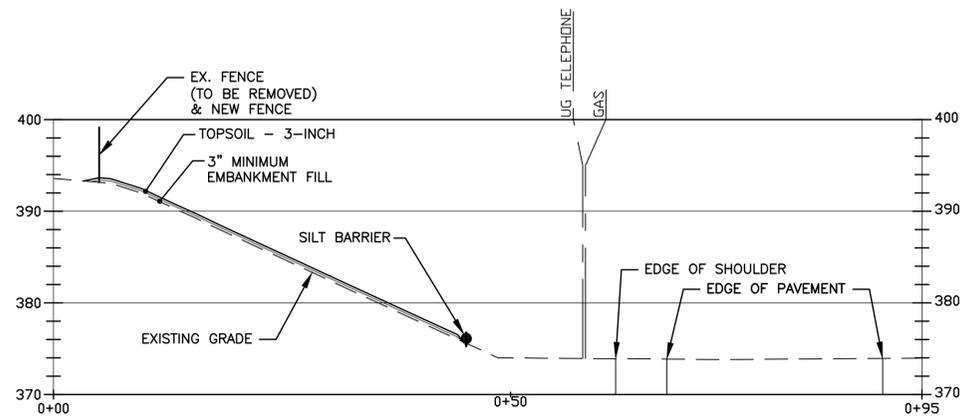


HONEYWELL INTERNATIONAL INC.
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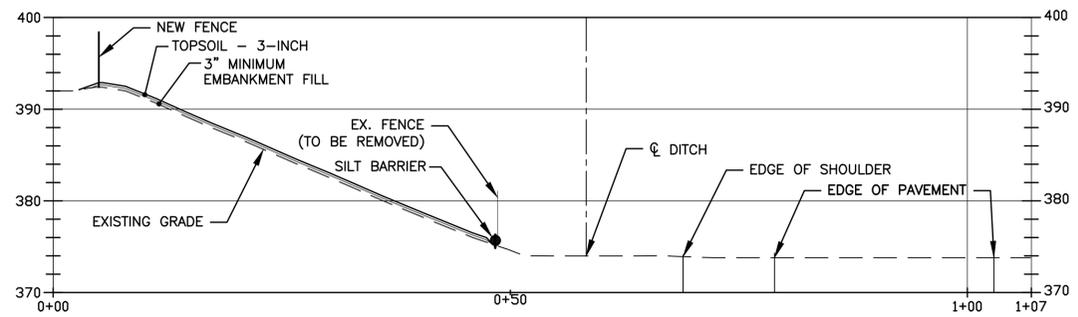
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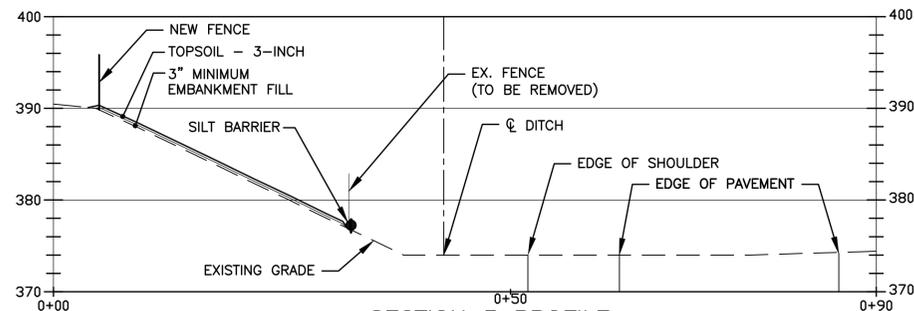
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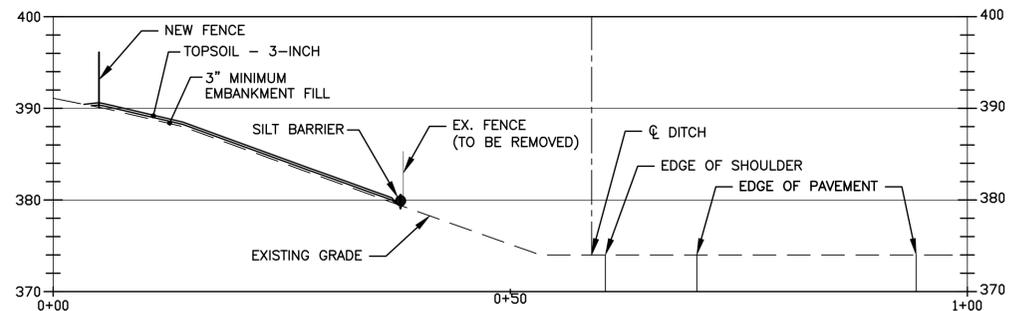
SECTION 2 PROFILE

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SECTION 3 PROFILE

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SECTION 4 PROFILE

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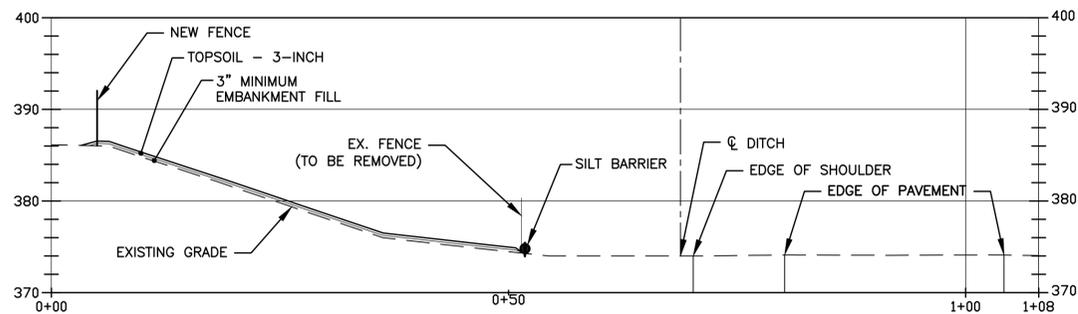
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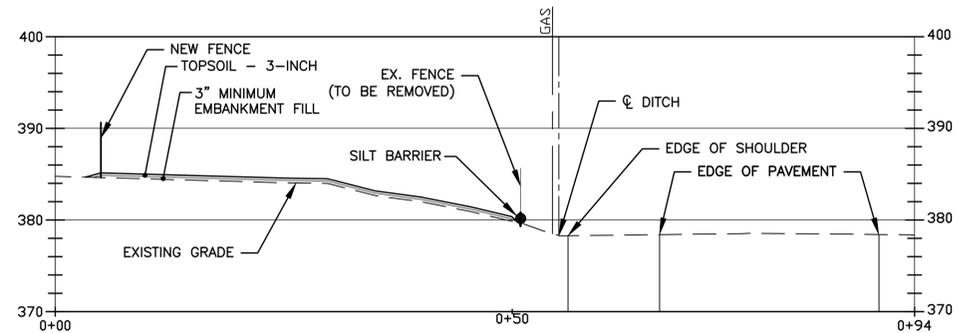
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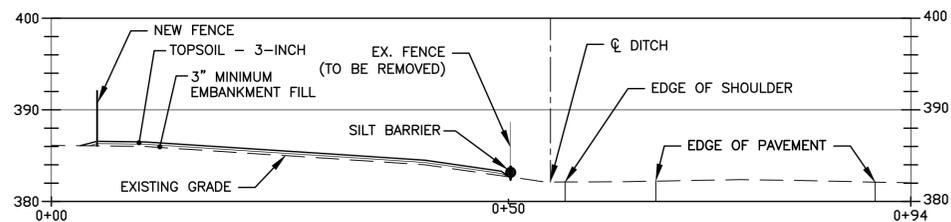
C-1



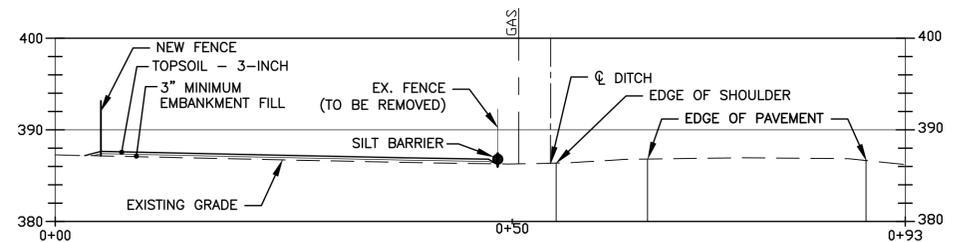
SECTION 5 PROFILE
SCALE: 1"=10' HORIZONTAL
1"=10' VERTICAL



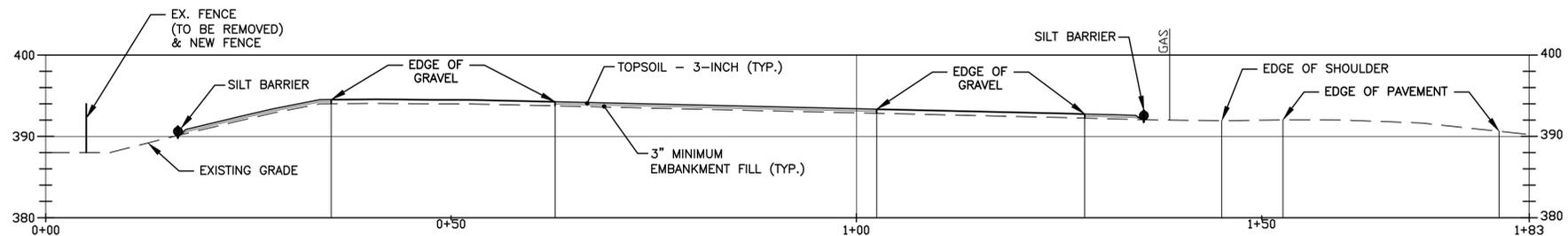
SECTION 6 PROFILE
SCALE: 1"=10' HORIZONTAL
1"=10' VERTICAL



SECTION 7 PROFILE
SCALE: 1"=10' HORIZONTAL
1"=10' VERTICAL



SECTION 8 PROFILE
SCALE: 1"=10' HORIZONTAL
1"=10' VERTICAL



SECTION 9 PROFILE
SCALE: 1"=10' HORIZONTAL
1"=10' VERTICAL

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NO.	DATE	REVISION	INIT.



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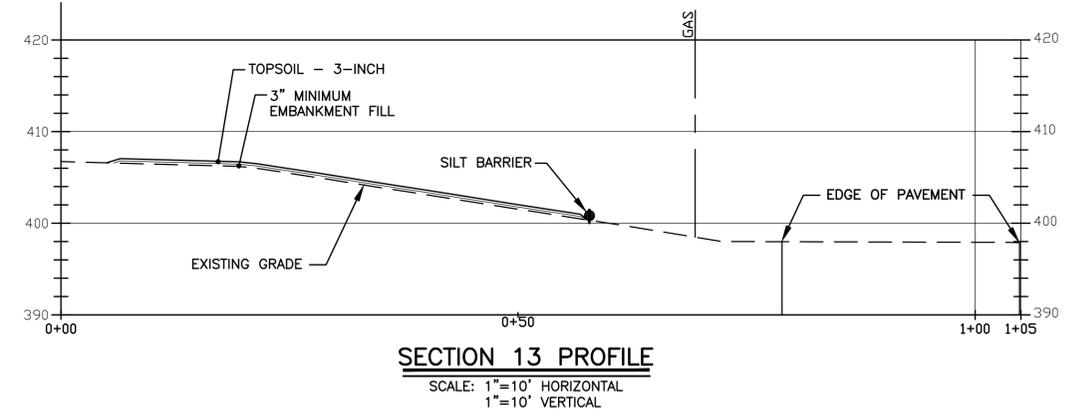
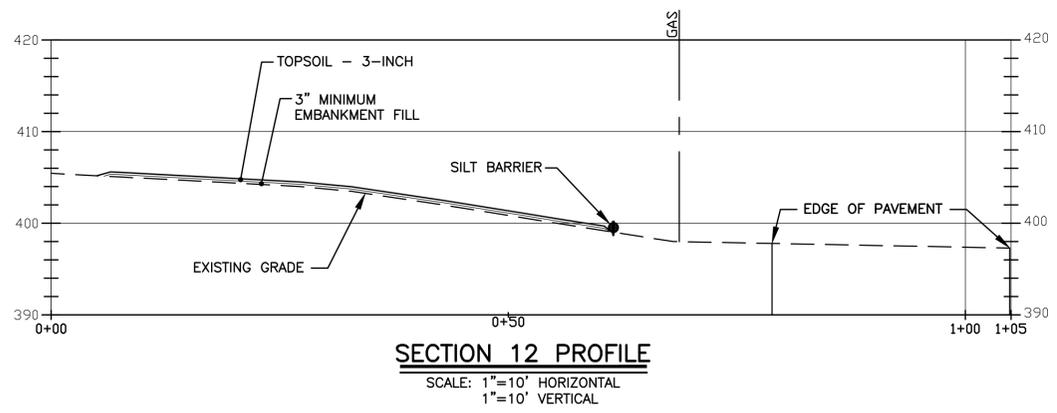
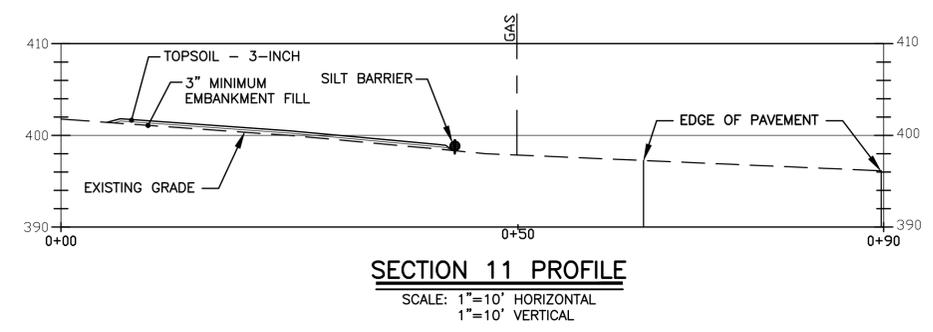
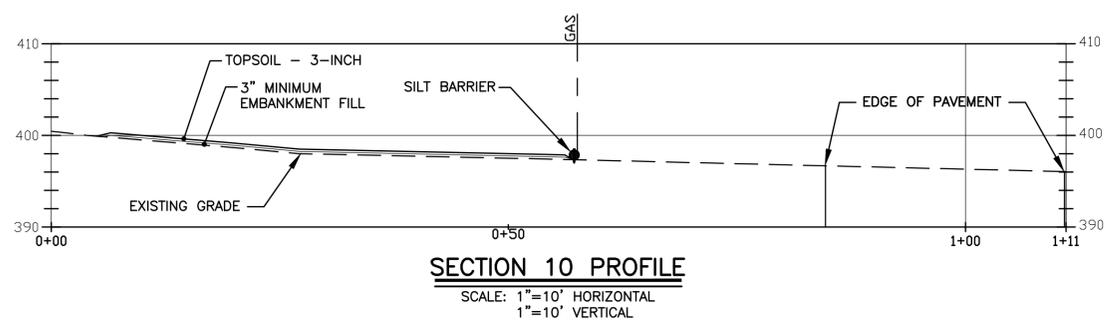
HONEYWELL INTERNATIONAL INC.
WILLIS/SEMET/BALLFIELD
SITE IMPROVEMENTS/LANDSCAPING
TOWN OF GEDDES, NEW YORK

GENERAL
SECTION PROFILES

**PRELIMINARY
NOT FOR
CONSTRUCTION**
DATE: 04/15/11

FILE NO.
1163.45833-102
DATE
APRIL 2011

C-2

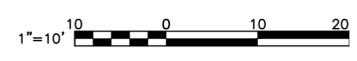


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DATE: 04/15/11

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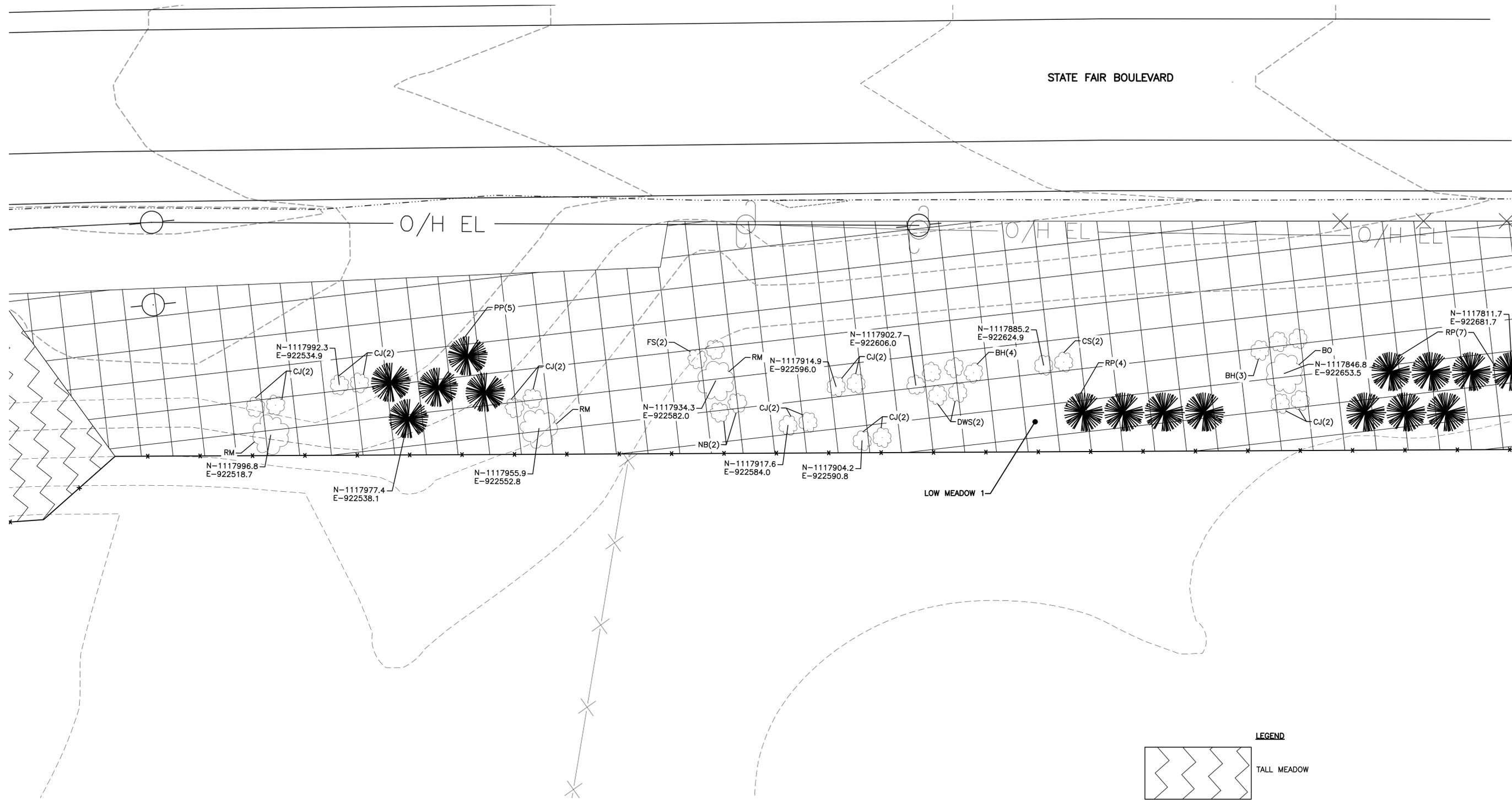


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APRIL 2011

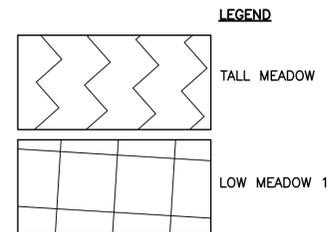
C-3



NOTE:
 1. ALL UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED PRIOR TO ANY EXCAVATION.

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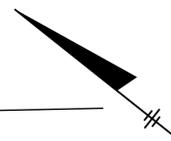
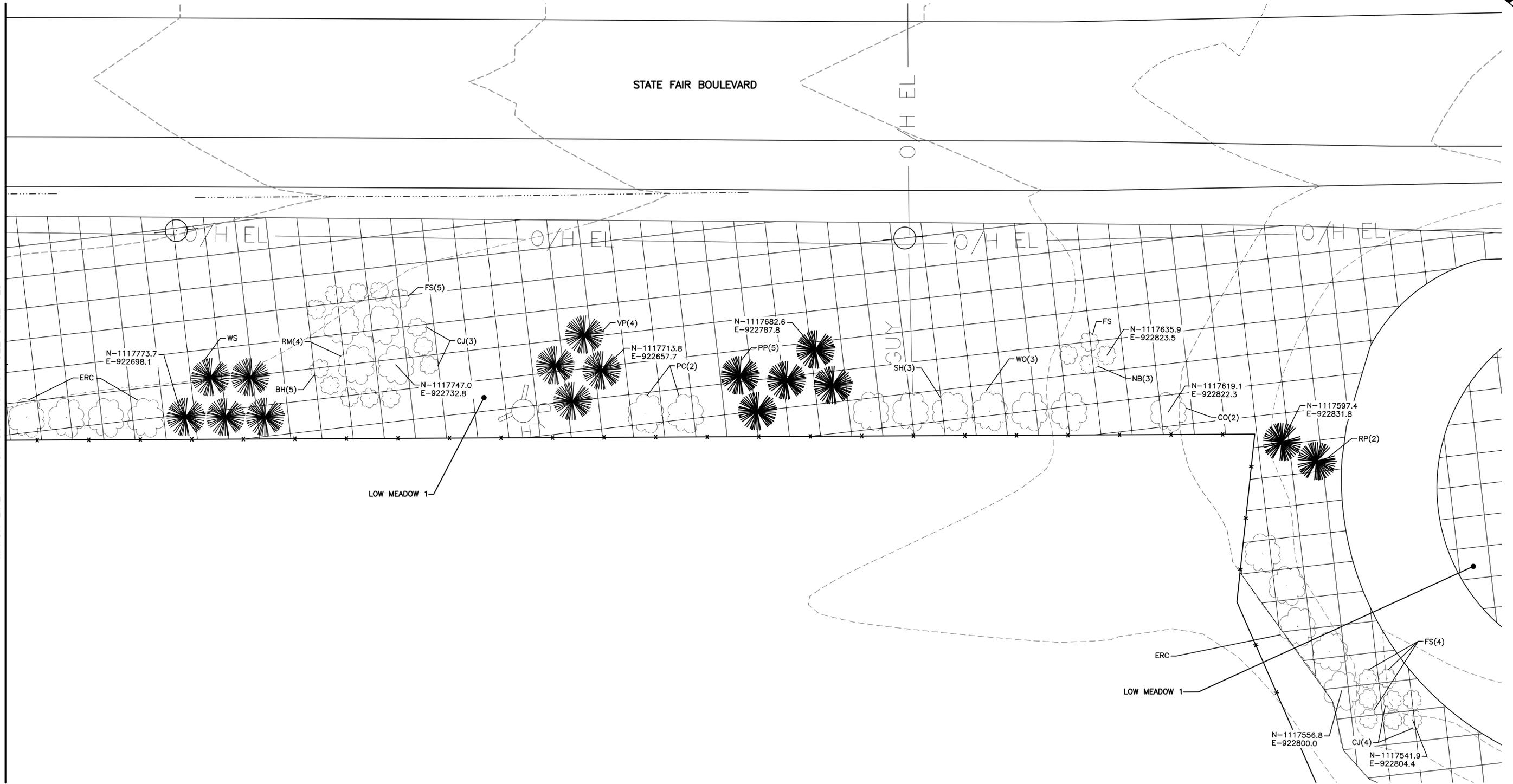
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GENERAL
LANDSCAPE PLAN

FILE NO.
 1163.45833-301
 DATE
 APRIL 2011

LS-1

MATCH LINE "F" FOR CONTINUATION SEE SHEET LS-1



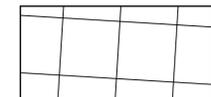
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LEGEND



LOW MEADOW 1

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NO.	DATE	REVISION	INIT.



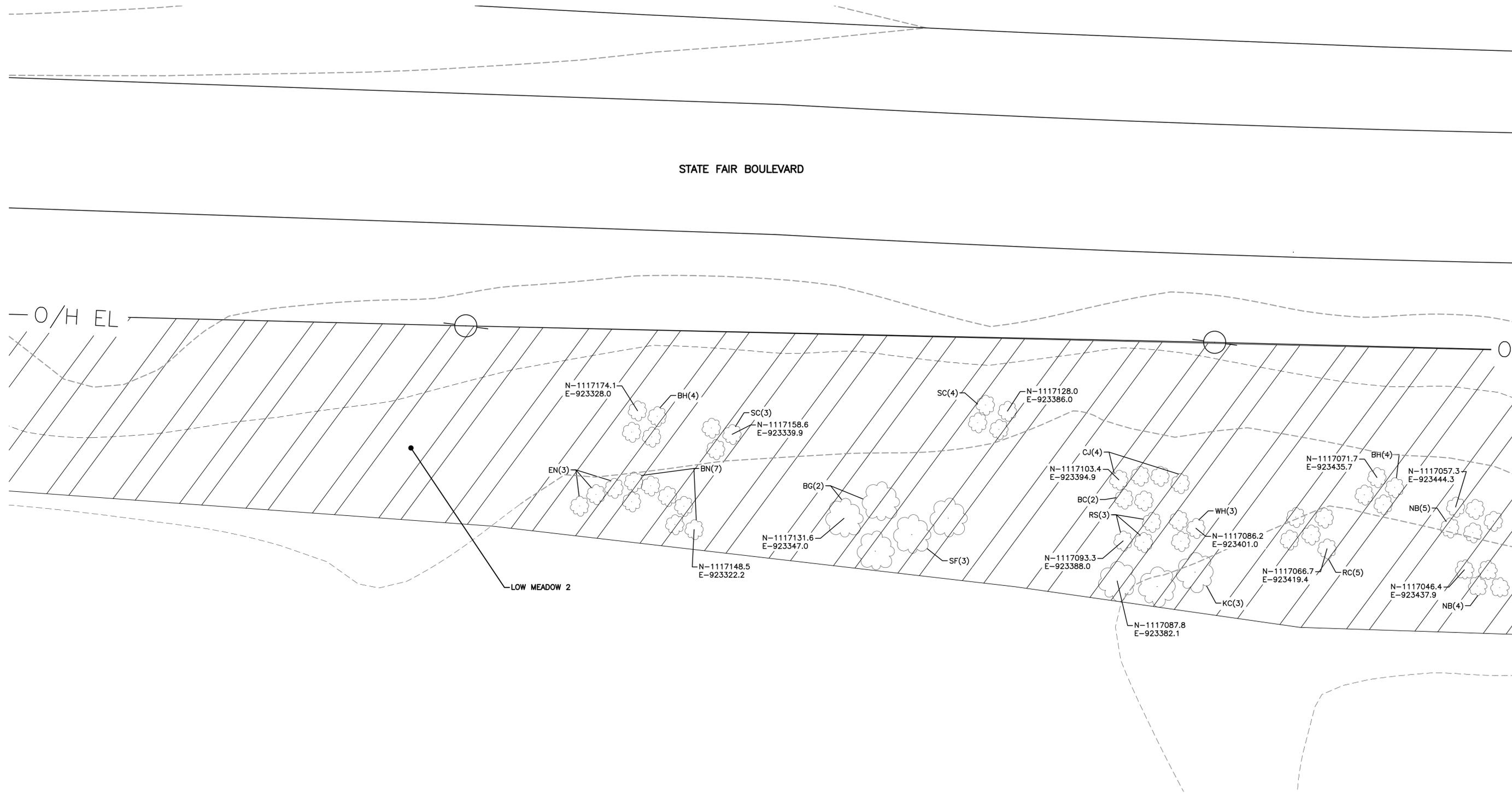
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GENERAL
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FILE NO.
 1163.45833-302
 DATE
 APRIL 2011

LS-2



MATCH LINE "G" FOR CONTINUATION SEE SHEET LS-4

NOTE:

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LEGEND



LOW MEADOW 2

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DATE: 04/15/11

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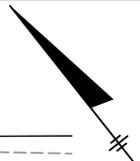
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FILE NO.
 1163.45833-303
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 APRIL 2011

LS-3



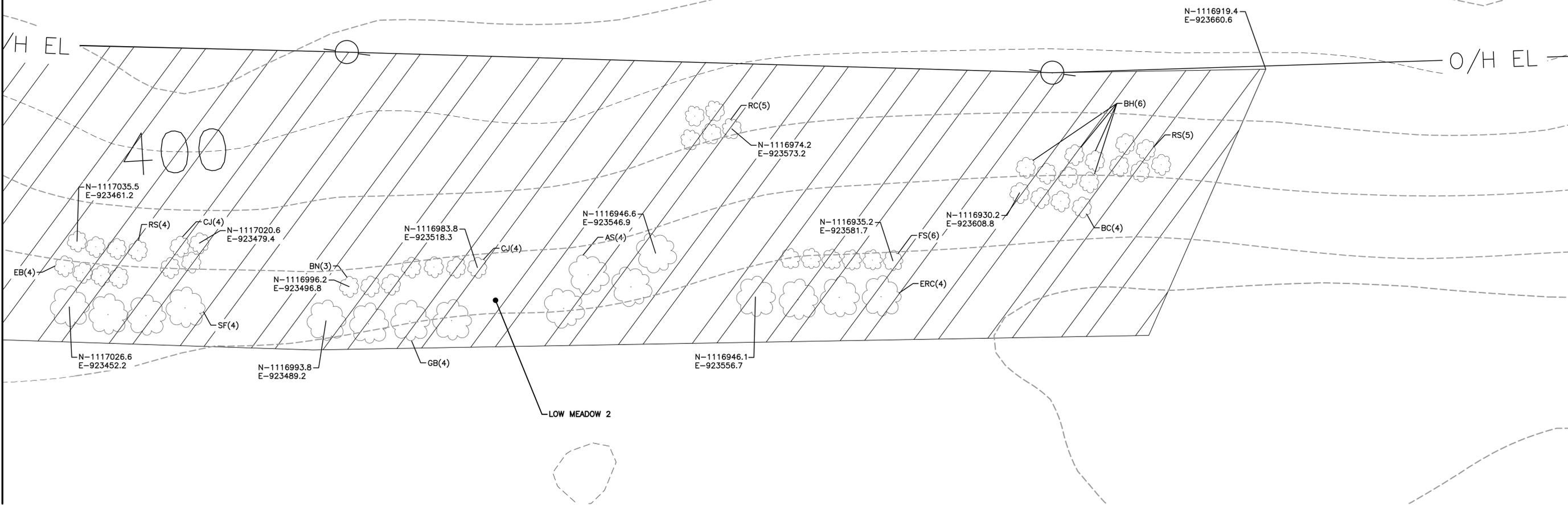
STATE FAIR BOULEVARD

MATCH LINE "G" FOR CONTINUATION SEE SHEET LS-3

H EL

O/H EL

400

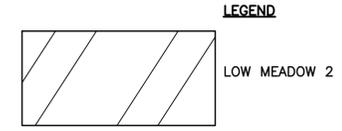


NOTE:

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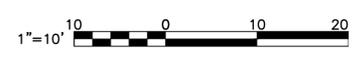
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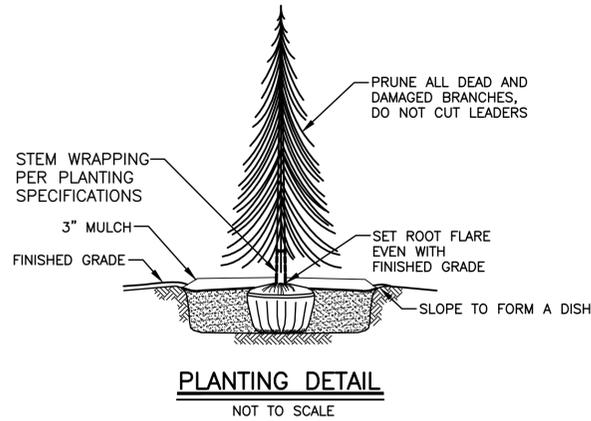
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LANDSCAPE PLAN

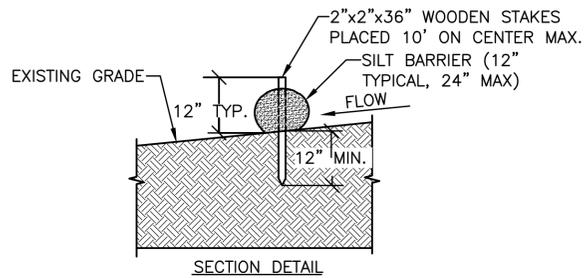
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DATE
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LS-4



PLANTING DETAIL
NOT TO SCALE

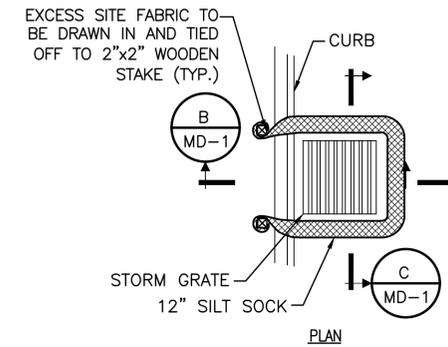
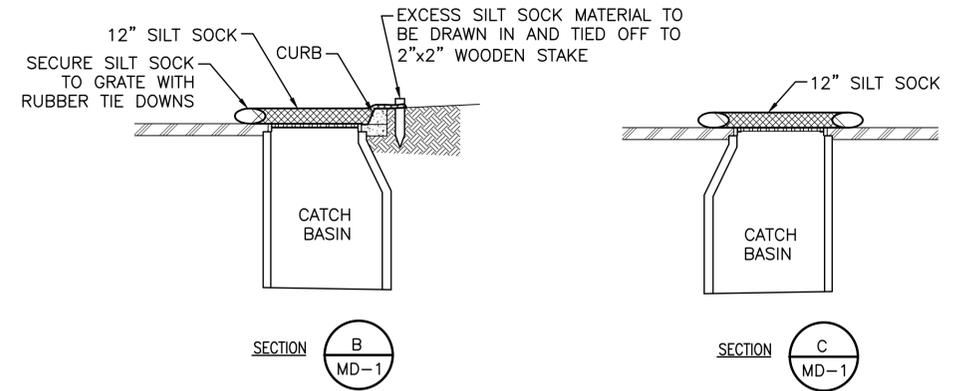


NOTES:

1. USE FILTREXX® SEDIMENT CONTROL SYSTEM BY FILTREXX® LAND IMPROVEMENT SYSTEMS OR APPROVED EQUAL.
2. STAKES SHALL BE INSTALLED THROUGH THE MIDDLE OF THE SILT BARRIER AT 10' INTERVALS MAXIMUM USING HARDWOOD STAKES.
3. SILT BARRIER TO BE ALIGNED ALONG CONTOUR AS CLOSELY AS POSSIBLE.
4. BOTH ENDS OF EACH BARRIER SECTION MUST EXTEND AT LEAST 10 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT.
5. SEDIMENT MUST BE REMOVED WHERE ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER.
6. ANY SILT BARRIER SECTION WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPAIRED OR REPLACED.

STANDARD SYMBOL — SB — SB

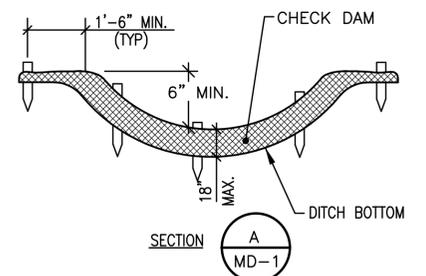
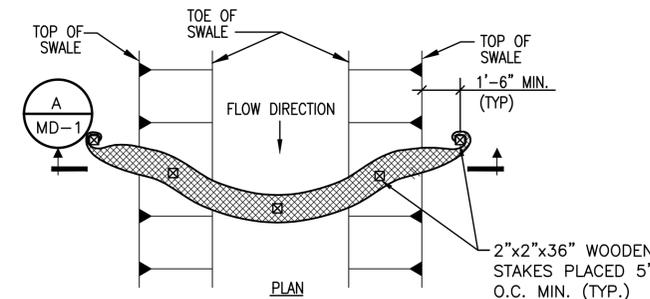
SILT BARRIER
NOT TO SCALE



INLET PROTECTION
NOT TO SCALE

1. INSPECT AFTER EACH RAIN EVENT. REMOVE DEBRIS AND CAPTURED SEDIMENT WHEN DEPOSITS REACH 6" OR 1/2 THE HEIGHT OF THE STRUCTURE.
2. USE FILTREXX® INLET PROTECTION PRODUCT BY FILTREXX® LAND IMPROVEMENT SYSTEMS OR APPROVED EQUAL.
3. AN ADDITIONAL INLET PROTECTION SOCK MAY BE PLACED ON TOP OF THE ORIGINAL SOCK TO INCREASE THE SEDIMENT STORAGE CAPACITY AT THAT DRAINAGE INLET.

STANDARD SYMBOL



CONSTRUCTION SPECIFICATIONS

1. SET SPACING OF CHECK DAMS SUCH THAT THE ELEVATION OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
2. EXTEND THE CHECK DAM FABRIC A MINIMUM OF 1.5' BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
3. CHECK DAMS MAY BE STACKED ON TOP OF EACH OTHER, IF ADDITIONAL HEIGHT IS REQUIRED. STAKING DEPTH FOR SAND AND SILT LOAM SOILS SHALL BE 12" AND 8" FOR CLAY SOILS.
4. THE CONTRACTOR SHALL REMOVE SEDIMENT AT THE BASE OF THE UPGRADIENT SIDE OF THE CHECK DAM WHEN SEDIMENT ACCUMULATION HAS REACHED 1/2 OF THE EFFECTIVE HEIGHT OF THE CHECK DAM. AS AN ALTERNATIVE, ANOTHER CHECK DAM MAY BE INSTALLED ADJACENT AND PARALLEL TO THE UPGRADIENT SIDE OF THE ORIGINAL CHECK DAM TO INCREASE SEDIMENT STORAGE CAPACITY. CHECK DAM AND SEDIMENT BACKUP IN CENTER OF THE DITCH/CHANNEL SHALL REMAIN LOWER THAN THE SIDES.
5. CHECK DAMS SHALL BE MAINTAINED UNTIL DISTURBED AREA AROUND THE MEASURE HAS BEEN PERMANENTLY STABILIZED AND CONSTRUCTION ACTIVITIES HAVE CEASED.

CHECK DAM
NOT TO SCALE

STANDARD SYMBOL

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MD-1