

# Ayrshire Farms

## Dublin, Ohio

DATE: July 30, 2021

### Final Development Plan Submittal

PROJECT NO. 19053

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SD1.00	Site Details
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SD3.00	Architecture Elevations
SD3.01	Architecture Elevations

#### PREPARED FOR

MC Shier Rings LLC  
P.O. Box 3001  
Dublin, Ohio 43016

#### PREPARED BY



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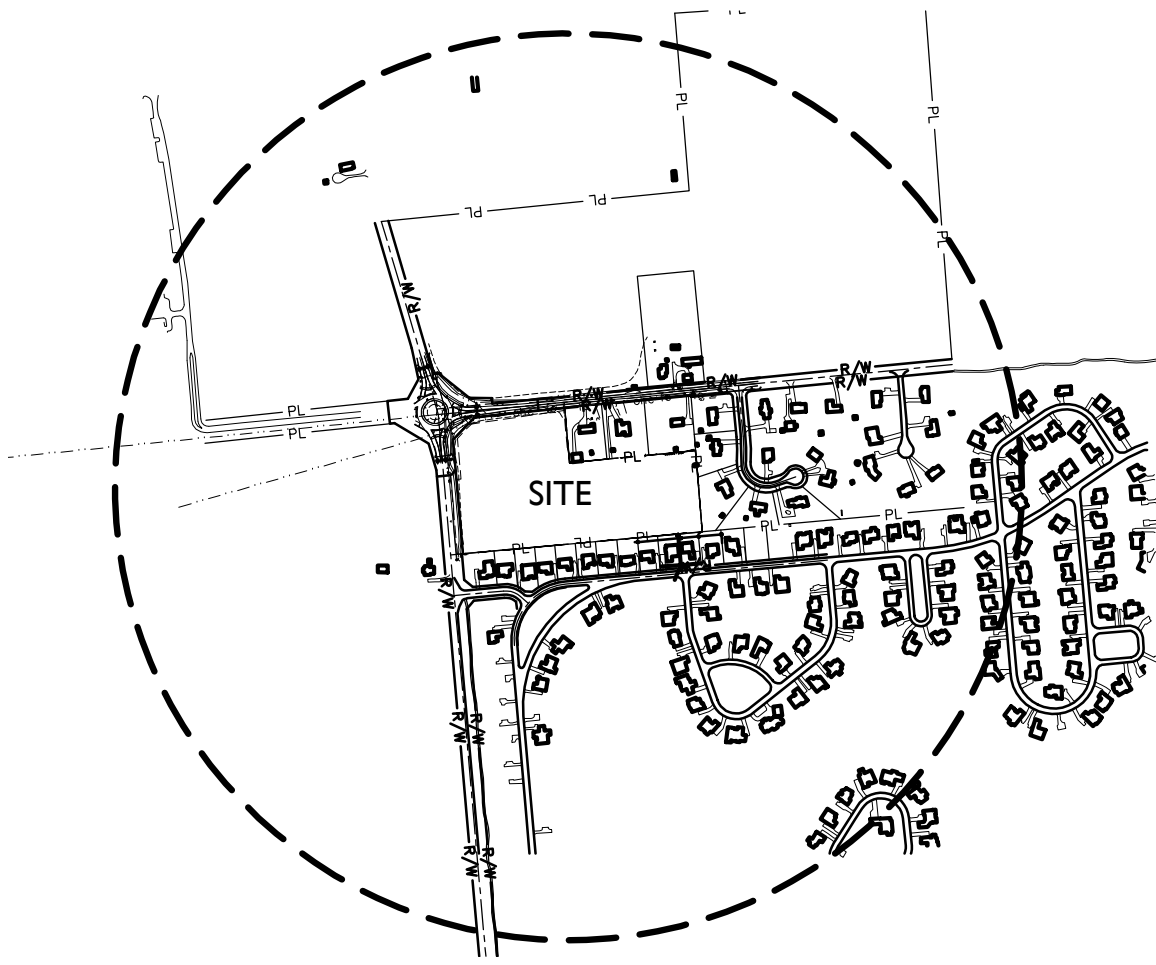
#### VICINITY MAP



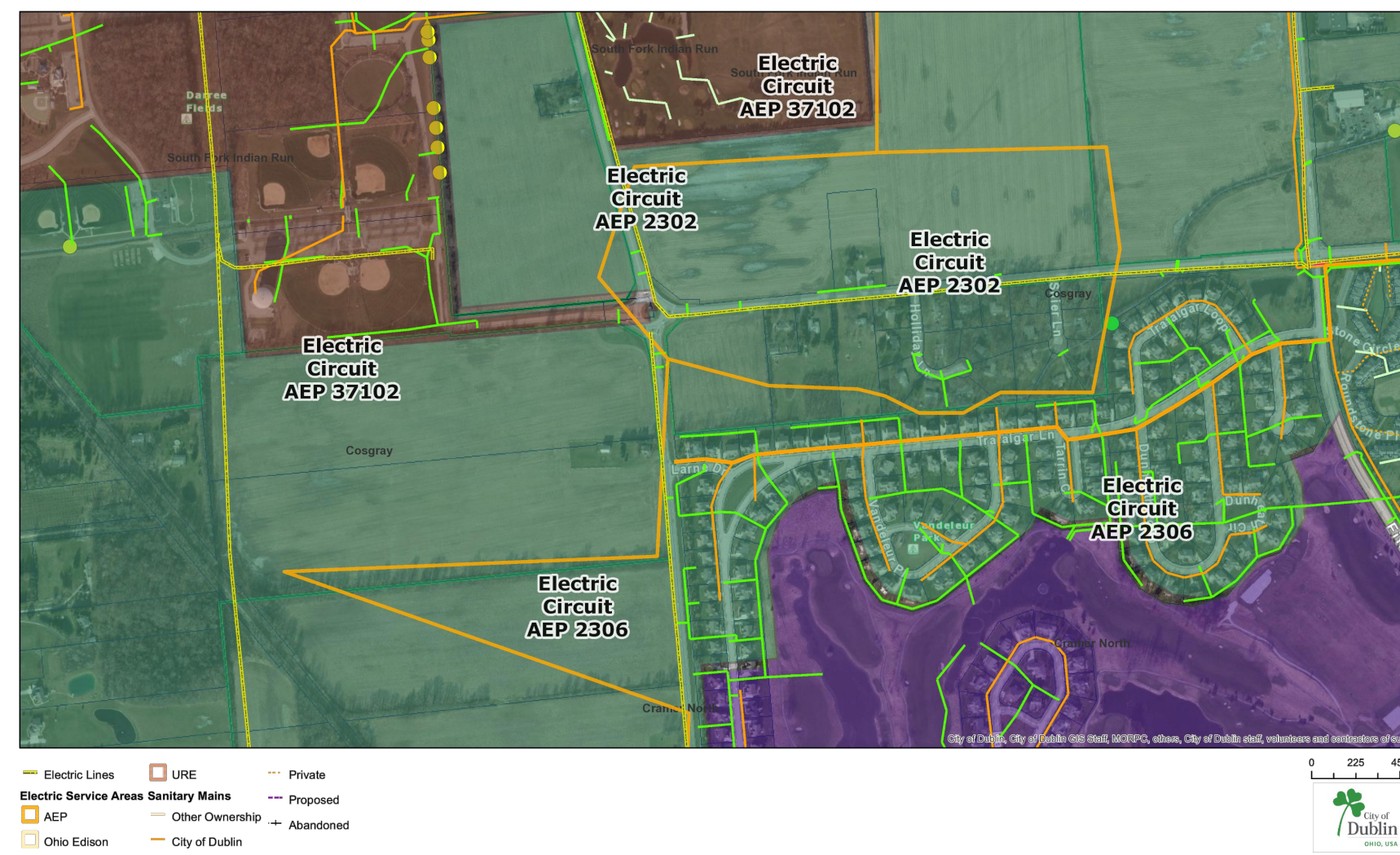
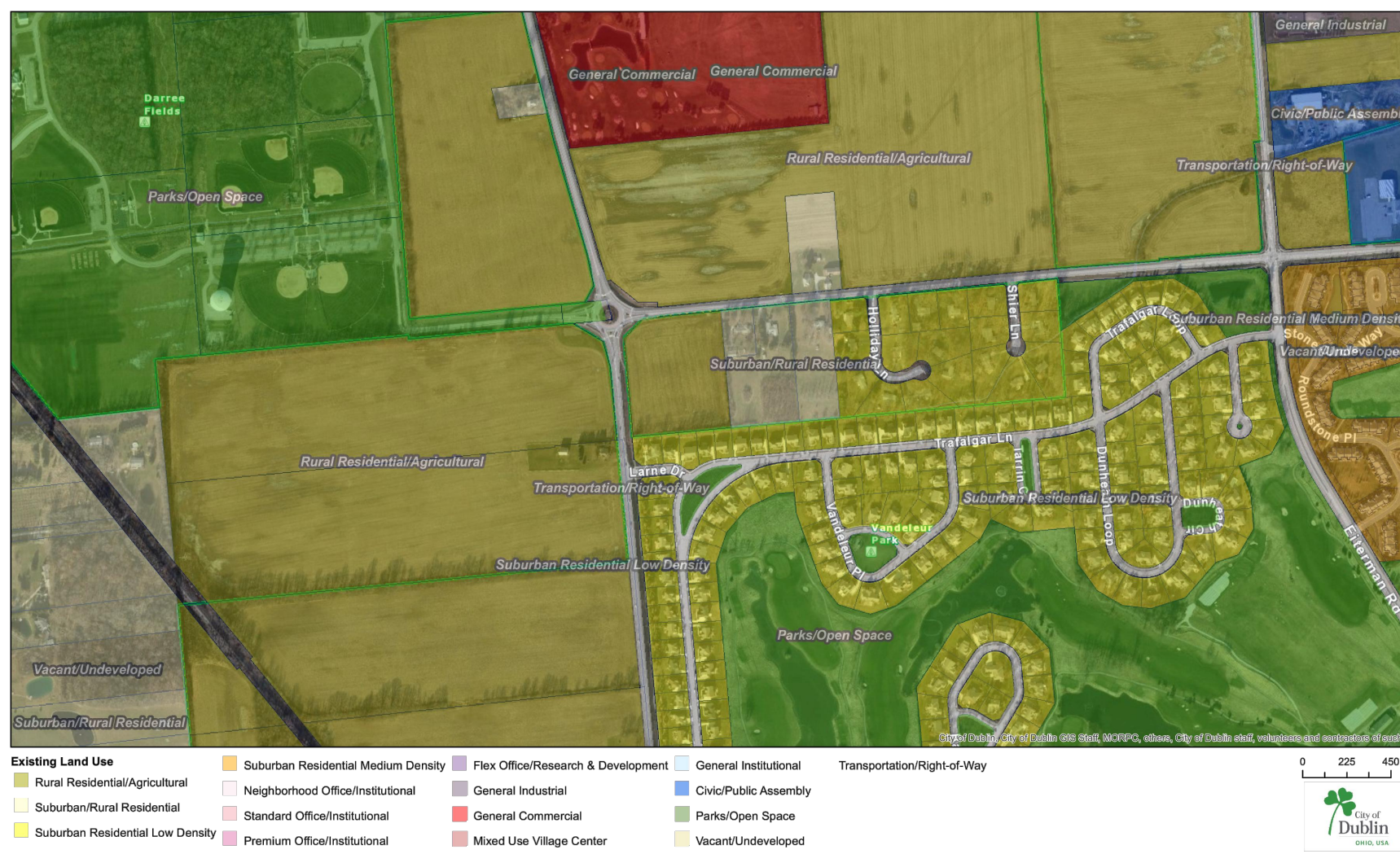
SCALE: 1" = 1000'



20-002-RES



2000' RADIUS



- INTERMEDIATE CONTOUR LINE
- INDEX CONTOUR LINE

NOTE:  
BASE FILES GENERATED FROM  
COUNTY AND CITY GIS FILES.

UTILITY PROVIDER NOTE:  
ELECTRIC SERVICE - AEP  
TELEPHONE SERVICE - AT&T  
WATER SERVICE - CITY OF DUBLIN  
SANITARY SERVICE - CITY OF DUBLIN  
NATURAL GAS - COLUMBIA GAS OF OHIO

DRAINAGE NOTE:  
THE SITE IS LOCATED IN THE COSGRAY  
CREEK WATERSHED AND GENERALLY DRAINS  
FROM NORTHWEST AND SOUTHEAST AWAY  
FROM THE CENTER OF THE SITE. THE SITE IS  
ENTIRELY OUT OF THE 100-YEAR  
FLOODPLAIN

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**Ayrshire Farms**

Dublin, Ohio

**Prepared For**

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Dublin, OH 43016

**Project Info**

Project # 19053  
Date 07/30/21  
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Scale As Noted

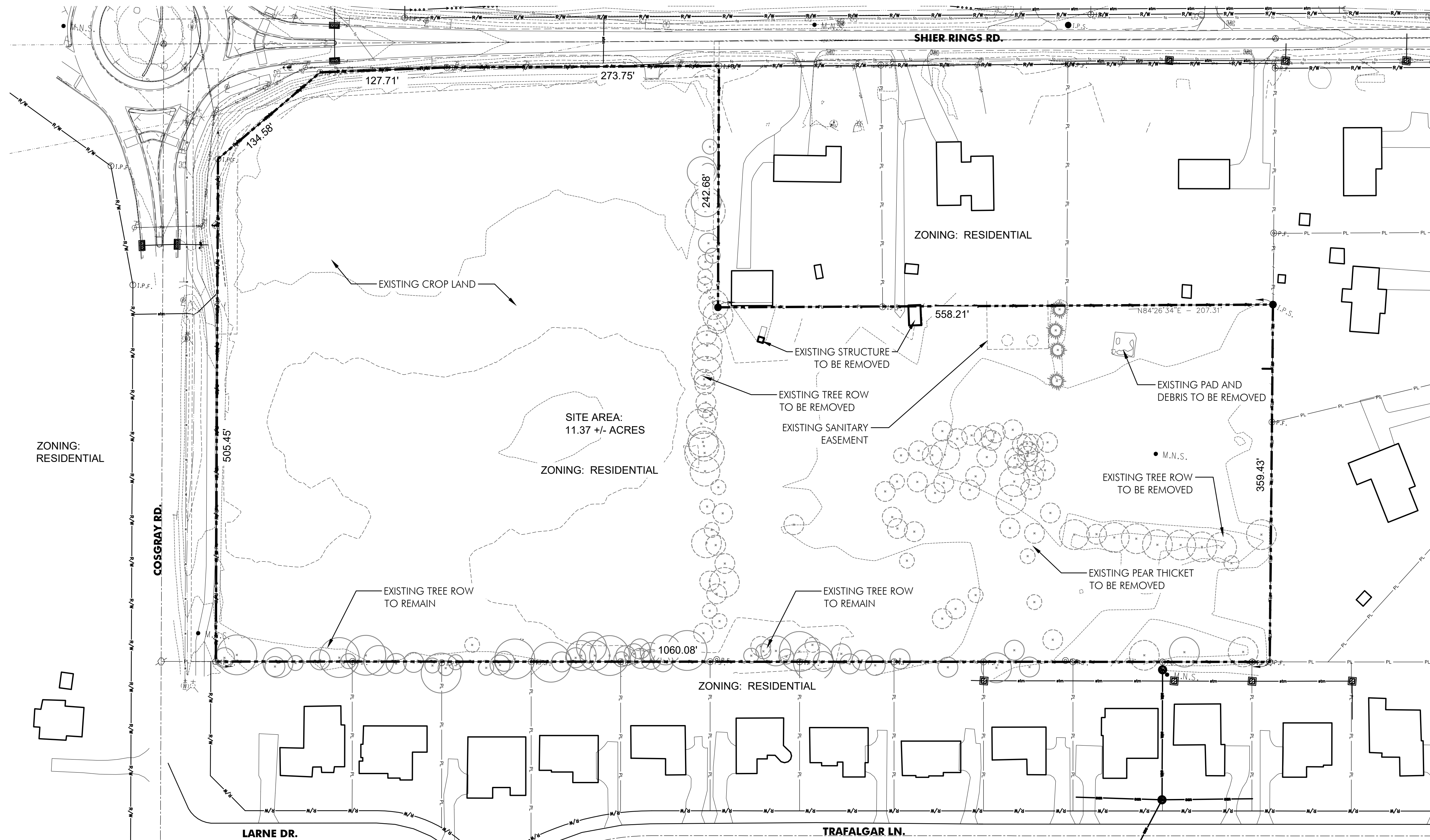
**Revisions**

**Sheet Title**

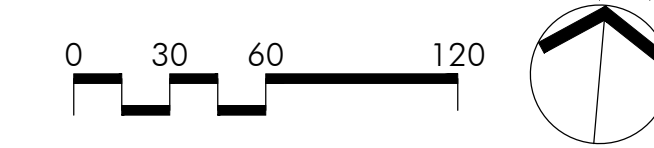
**Existing  
Conditions  
Plan**

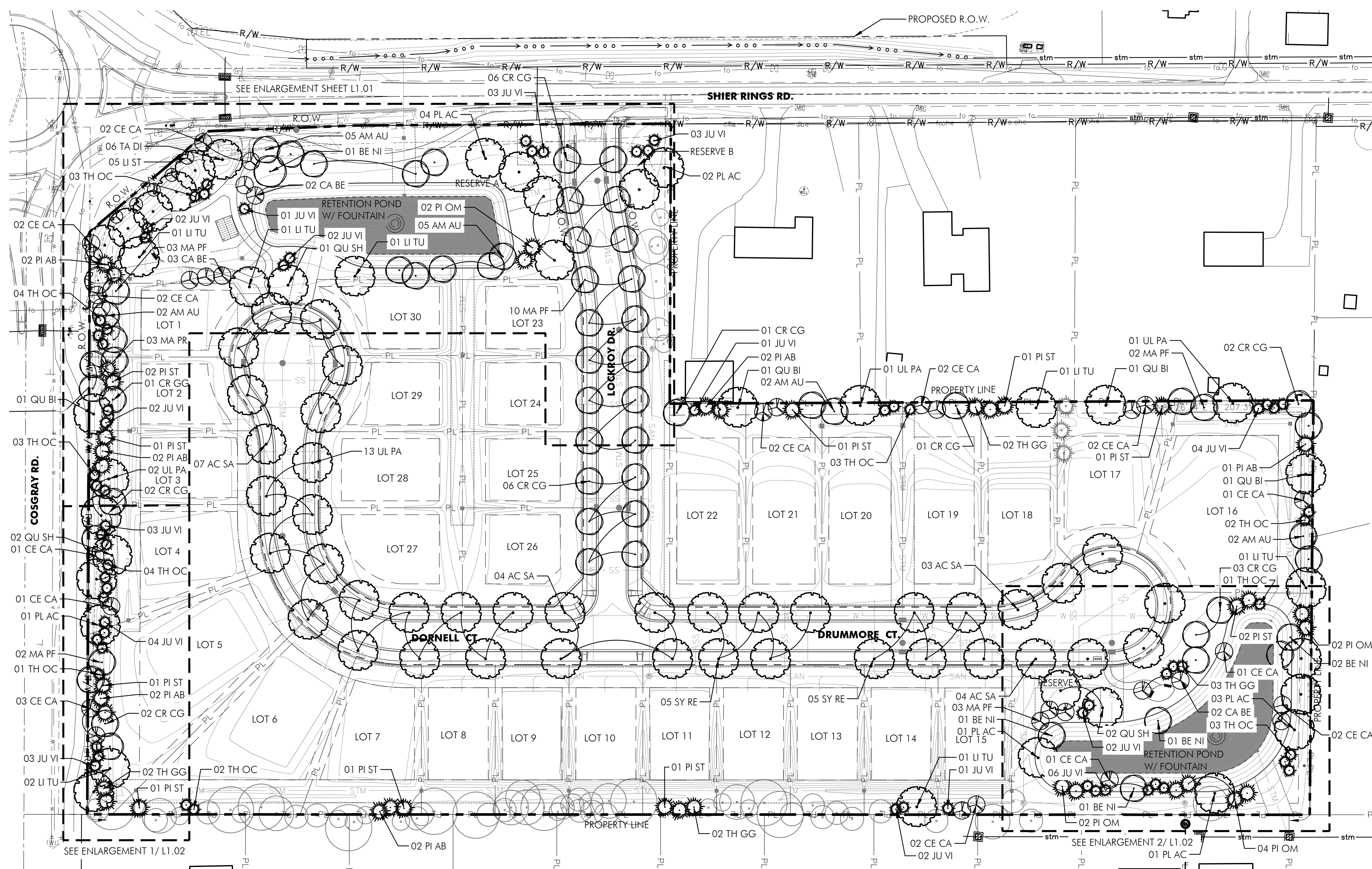
**Sheet #**

**L0.01**



Existing Conditions Plan  
SCALE: 1" = 60'-0"





**LEGEND**

- EXISTING DECIDUOUS TREE
- EXISTING EVERGREEN TREE
- PROPOSED LARGE DECIDUOUS TREE
- PROPOSED MEDIUM DECIDUOUS TREE
- PROPOSED SMALL DECIDUOUS TREE
- PROPOSED ORNAMENTAL TREE
- PROPOSED EVERGREEN TREE

QTY.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	COND.	SPACING
<b>TREES</b>						
18	AC SA	<i>Acer saccharum</i> 'Green Mountain'	Green Mountain Sugar Maple	2.5' cal.	B&B	As Shown
16	AM AU	<i>Amelanchier canadensis</i> 'Autumn Brilliance'	Autumn Brilliance Serviceberry	2.5' cal.	B&B	As Shown
6	BE NI	<i>Betula nigra</i> 'Heritage'	Heritage River Birch	2.5' cal.	B&B	As Shown
7	CA BE	<i>Carpinus betulus</i>	European Hornbeam	2.5' cal.	B&B	As Shown
24	CE CA	<i>Cercis canadensis</i>	Eastern Redbud	2.5' cal.	B&B	As Shown
24	CR CG	<i>Crataegus crus-galli</i> var. <i>inermis</i> 'Crusader'	Crusader Hawthorn	2.5' cal.	B&B	As Shown
39	JU VI	<i>Juniperus virginiana</i> 'Burkii'	Eastern Red Cedar	6' ht.	B&B	As Shown
5	LI ST	<i>Liquidambar styraciflua</i> 'Slender Silhouette'	Slender Silhouette Sweetgum	2.5' cal.	B&B	As Shown
8	LI TU	<i>Liriodendron tulipifera</i>	Tuliptree	2.5' cal.	B&B	As Shown
22	MA PF	<i>Malus 'Prairifire'</i>	Prairie Fire Crabapple	2.5' cal.	B&B	As Shown
11	PI AB	<i>Picea abies</i>	Norway Spruce	8'-10' ht.	B&B	As Shown
10	PI OM	<i>Picea omorika</i>	Serbian Spruce	8'-10' ht.	B&B	As Shown
10	PI ST	<i>Pinus strobus</i>	White Pine	12'-15' ht.	B&B	As Shown
12	PL AC	<i>Platanus x acerifolia</i> 'Exclamation'	Exclamation London Planetree	2.5' cal.	B&B	As Shown
4	QU BI	<i>Quercus bicolor</i>	Swamp White Oak	2.5' cal.	B&B	As Shown
5	QU SH	<i>Quercus shumardii</i>	Shumard Oak	2.5' cal.	B&B	As Shown
10	SY RE	<i>Syringa reticulata</i> 'Ivory Silk'	Ivory Silk Japanese Tree Lilac	2.5' cal.	B&B	As Shown
6	TA DI	<i>Taxodium distichum</i>	Bald Cypress	2.5' cal.	B&B	As Shown
9	TH GG	<i>Thuja 'Green Giant'</i>	Green Giant Arborvitae	6' ht.	B&B	As Shown
1	TH OC	<i>Thuja occidentalis</i> 'Smaragd'	American Arborvitae	6' ht.	B&B	As Shown
17	UL PA	<i>Ulmus parvifolia</i>	Lacebark Elm	2.5' cal.	B&B	As Shown

**Prepared For**  
MC Shier Rings LLC  
P.O. Box 3001  
Dublin, OH 43016

**Project Info**  
Project # 19053  
Date 07/30/21  
By GB/TF  
Scale As Noted

**Revisions**

**Sheet Title**  
**OVERALL LANDSCAPE PLAN**

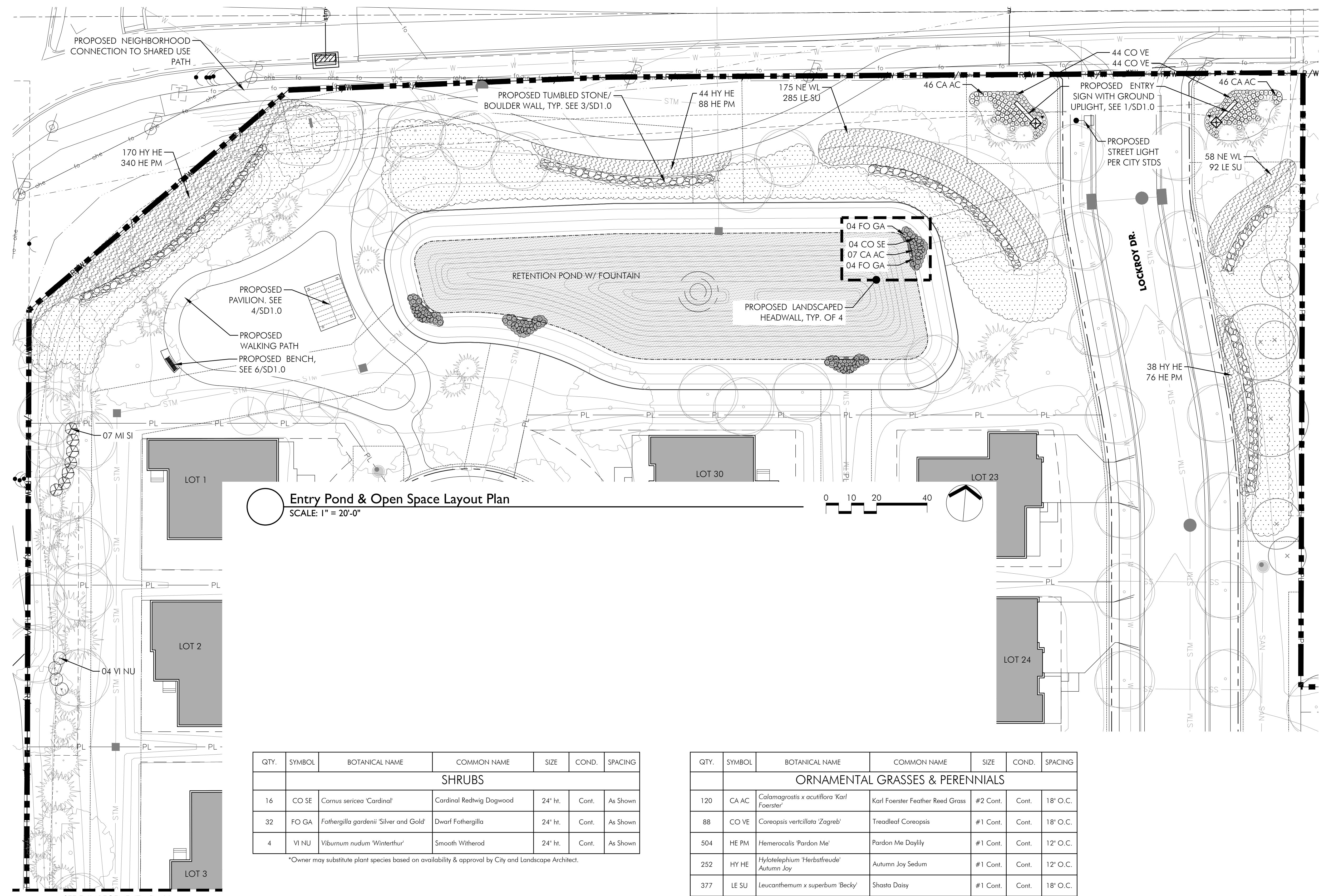
**Sheet #**  
**L1.00**

**Overall Landscape Plan**  
SCALE: 1" = 50'-0"

**PLANT INSTALLATION NOTES**

- CONTRACTOR SHALL VERIFY WITH THE OWNER AND UTILITY COMPANIES THE LOCATIONS OF THE EXISTING UTILITIES PRIOR TO STARTING WORK. CALL THE OHIO UTILITIES PROTECTION SERVICE AT (800) 362-2764. CONTRACTOR TO REPAIR ALL DAMAGES TO EXISTING UTILITIES, CURBS, PAVEMENTS, ETC., RESULTING FROM LANDSCAPE INSTALLATIONS WHICH OCCUR DURING THE CONSTRUCTION OF THE PROJECT.
- PLANT MATERIAL SHALL BE FURNISHED IN THE QUANTITIES AND/OR SPACING AS SHOWN OR NOTED. IN CASE OF DISCREPANCIES BETWEEN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE.
- CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF ALL SITE ELEMENTS AND IMMEDIATELY INFORM THE OWNER AND DESIGN CONSULTANT OF ANY DISCREPANCY BETWEEN THE DRAWINGS AND/OR SPECIFICATIONS AND ACTUAL CONDITIONS. NO WORK SHALL BE DONE IN ANY AREA WHERE THERE IS A DISCREPANCY WITHOUT OWNER'S APPROVAL.
- CONTACT THE OWNER TO REQUEST ELECTRONIC FILES FOR LAYOUT AND STAKING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINISH GRADING IN THE PROJECT REQUIRED TO PROVIDE A PROPER SOD AND PLANTING BED.
- ALL PLANT MATERIAL TO MEET OR EXCEED AMERICAN STANDARD FOR NURSERY STOCK, 1986 EDITION, AS SET FORTH BY AMERICAN ASSOCIATION OF NURSERYMEN.
- ALL PLANT MATERIALS SUBJECT TO INSPECTION PRIOR, DURING AND AFTER INSTALLATION. ANY PLANT NOT MEETING THE REQUIREMENTS WILL BE CAUSE FOR REJECTION BY THE OWNER. ALL REJECTED PLANTS SHALL BE IMMEDIATELY REMOVED AND DISPOSED OF BY THE CONTRACTOR AND THE REPLACEMENT MATERIAL SHALL BE PROVIDED.
- ALL SUBSTITUTIONS AND PLANT CHANGES MUST BE APPROVED BY THE OWNER AND DESIGN CONSULTANT PRIOR TO ANY ACTION TAKEN. TREES SHALL BE PROTECTED AND HANDLED CAREFULLY AT ALL TIMES DURING TRANSPORT & HANDLING TO PREVENT DRYING OF TREE OR ROOT BALL BY WINDS AND TO PREVENT ANY DAMAGE OR BREAKAGE OF THE ROOT BALL. BARK SHALL BE PROTECTED FROM BRUISING OR ABRASION.
- WATER TREES IMMEDIATELY AFTER PLANTING AND CONTINUE TO WATER UNTIL FINAL ACCEPTANCE BY THE OWNER.
- PLANT LOCATIONS AND BEDS SHALL BE LOCATED BY CONTRACTOR AND APPROVED BY OWNER AND DESIGN CONSULTANT BY PRIOR TO PLANT INSTALLATION.
- ALL SHRUB AND BED AREAS TO BE MULCHED WITH TWO INCHES (2") DEPTH MINIMUM SHREDDED HARDWOOD MULCH. SUBMIT SAMPLE TO OWNER FOR APPROVAL.
- FINISHED TURF (SOD) TO BE FLUSH WITH TOP OF ADJACENT CURB OR WALK. COORDINATE WITH OWNER IN FIELD AS REQUIRED.
- THE CONTRACTOR SHALL GUARANTEE ALL TREES, SHRUBS AND GROUND COVERS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. REPLACE MATERIAL WITHIN SEVEN (7) DAYS OF NOTIFICATION OF THE OWNER.
- PERFORM CLEANING DURING INSTALLATION OF LANDSCAPE WORK AND UPON COMPLETION. REMOVE FROM SITE ALL EXCESS LANDSCAPE RELATED MATERIAL, SOIL DEBRIS AND EQUIPMENT. REPAIR DAMAGE RESULTING FROM LANDSCAPING OPERATIONS. SWEEP AND HOSE DOWN PAVED SURFACES AFFECTED BY LANDSCAPING OPERATIONS. COORDINATE WITH OWNER AND OTHER CONTRACTORS FOR FINAL CLEANUP PRIOR TO CLEANING.

\*Owner may substitute plant species based on availability & approval by City and Landscape Architect.



**Entry Pond & Open Space Layout Plan**  
SCALE: 1" = 20'-0"

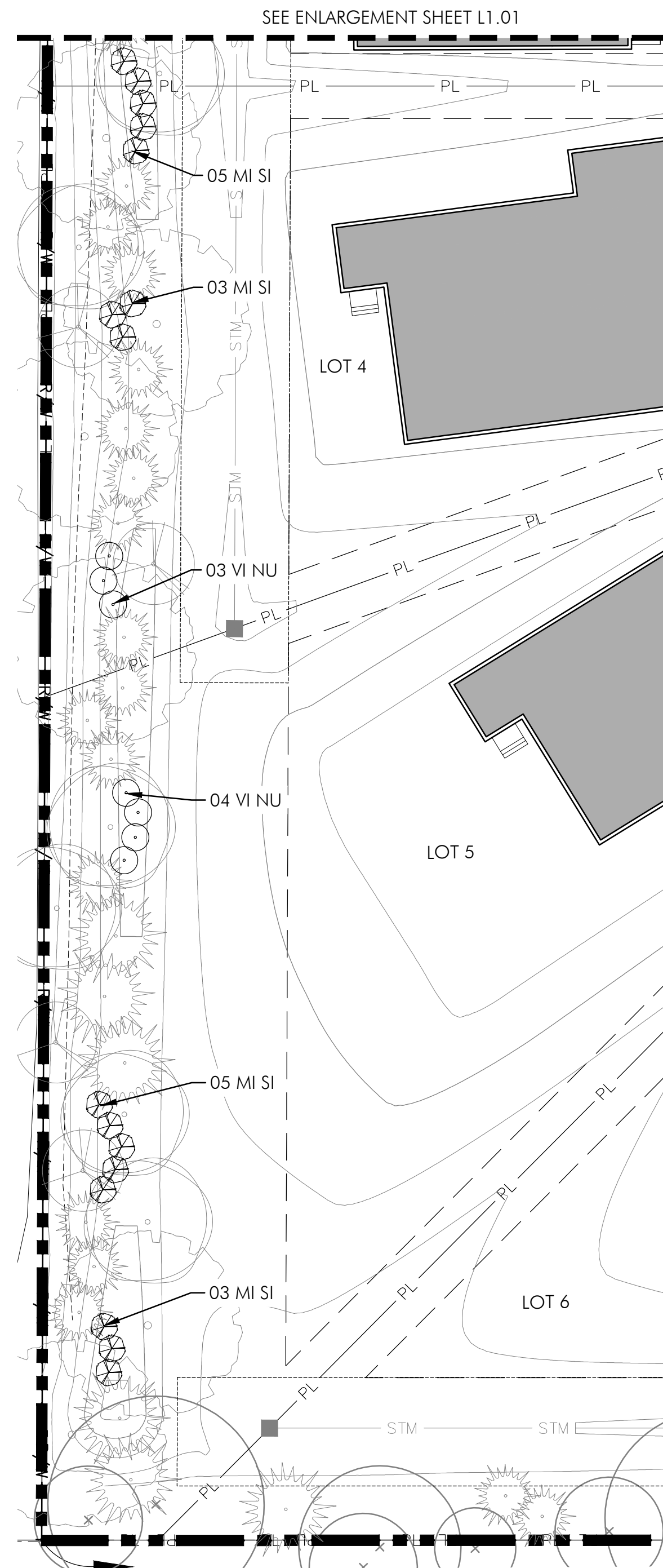
QTY.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	COND.	SPACING
<b>SHRUBS</b>						
16	CO SE	<i>Cornus sericea</i> 'Cardinal'	Cardinal Redtwig Dogwood	24" ht.	Cont.	As Shown
32	FO GA	<i>Fothergilla gardenii</i> 'Silver and Gold'	Dwarf Fothergilla	24" ht.	Cont.	As Shown
4	VI NU	<i>Viburnum nudum</i> 'Winterthur'	Smooth Witherod	24" ht.	Cont.	As Shown

\*Owner may substitute plant species based on availability & approval by City and Landscape Architect.

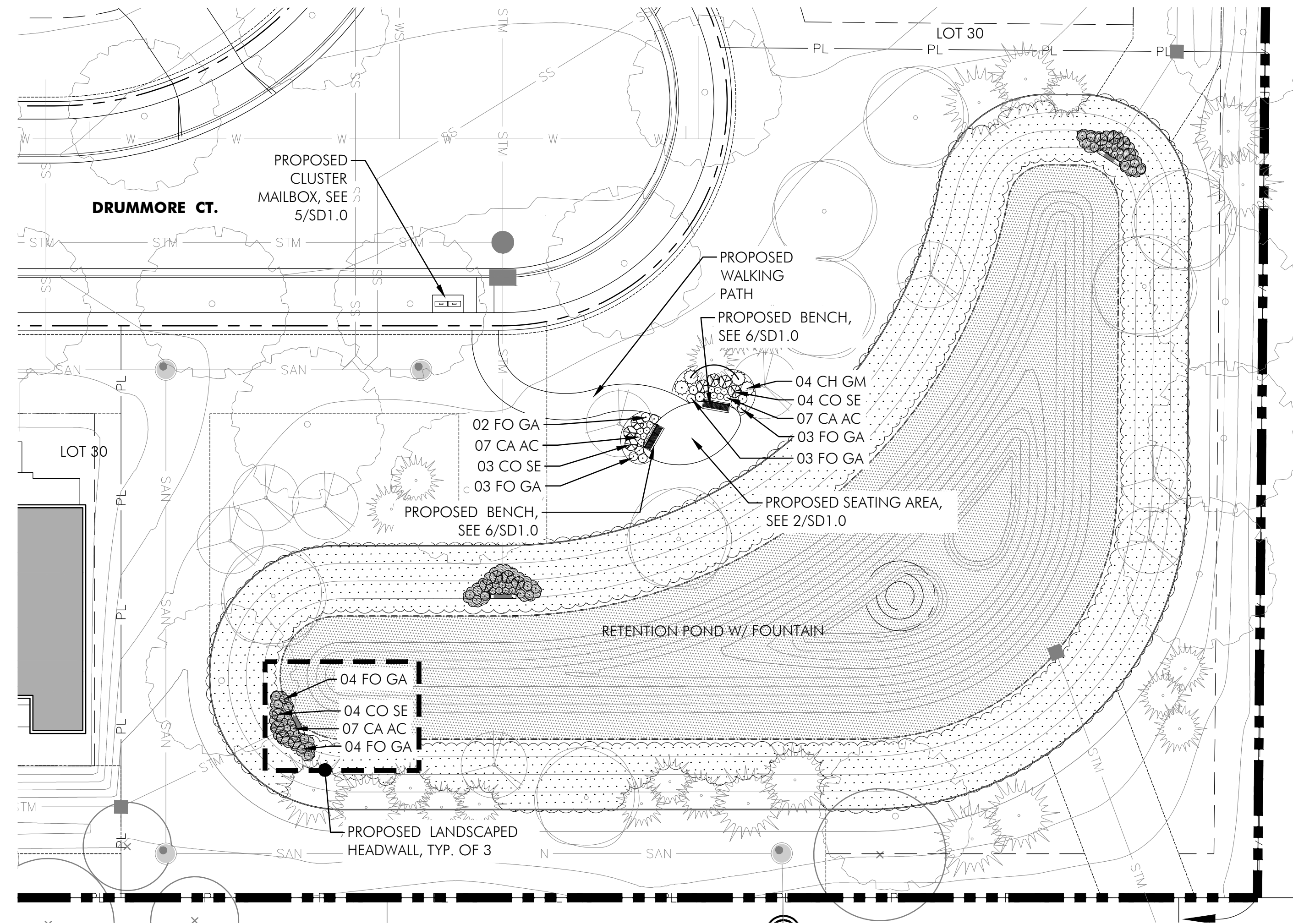
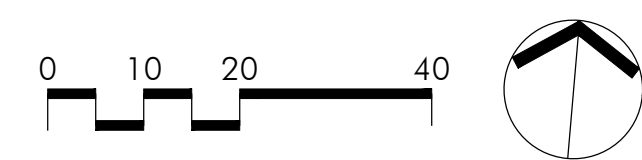
QTY.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	COND.	SPACING
<b>ORNAMENTAL GRASSES &amp; PERENNIALS</b>						
120	CA AC	<i>Calamagrostis x acutiflora</i> 'Karl Foerster'	Karl Foerster Feather Reed Grass	#2 Cont.	Cont.	18" O.C.
88	CO VE	<i>Coreopsis verticillata</i> 'Zagreb'	Treadleaf Coreopsis	#1 Cont.	Cont.	18" O.C.
504	HE PM	<i>Hemerocallis</i> 'Pardon Me'	Pardon Me Daylily	#1 Cont.	Cont.	12" O.C.
252	HY HE	<i>Hylotelephium</i> 'Herbstfreude' Autumn Jay	Autumn Jay Sedum	#1 Cont.	Cont.	12" O.C.
377	LE SU	<i>Leucanthemum x superbum</i> 'Becky'	Shasta Daisy	#1 Cont.	Cont.	18" O.C.
7	MI SI	<i>Miscanthus sinensis</i> 'Gracillimus'	Maiden Grass	#2 Cont.	Cont.	As Shown
233	NE WL	<i>Nepeta</i> 'Walker's Low'	Walker's Low Catmint	#1 Cont.	Cont.	24" O.C.

\*Owner may substitute plant species based on availability & approval by City and Landscape Architect.

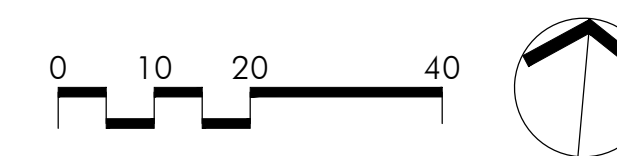
SEE ENLARGEMENT 1/L1.02



**1** S. Cosgray Buffer Planting  
SCALE: 1" = 20'-0"



**2** S. Cosgray Buffer Planting  
SCALE: 1" = 20'-0"



QTY.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	COND.	SPACING
<b>SHRUBS</b>						
4	CH GM	<i>Chamaecyparis pisifera</i> 'Gold Mop'	Gold Mop False Cypress	24" ht.	Cont.	As Shown
19	CO SE	<i>Cornus sericea</i> 'Cardinal'	Cardinal Redtwig Dogwood	24" ht.	Cont.	As Shown
35	FO GA	<i>Fothergilla gardenii</i> 'Silver and Gold'	Dwarf Fothergilla	24" ht.	Cont.	As Shown
7	VI NU	<i>Viburnum nudum</i> 'Winterthur'	Smooth Witherod	24" ht.	Cont.	As Shown

\*Owner may substitute plant species based on availability & approval by City and Landscape Architect.

QTY.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	COND.	SPACING
<b>ORNAMENTAL GRASSES &amp; PERENNIALS</b>						
42	CA AC	<i>Calamagrostis x acutiflora</i> 'Karl Foerster'	Karl Foerster Feather Reed Grass	#2 Cont.	Cont.	18" O.C.
414	HE PM	<i>Hemerocallis</i> 'Pardon Me'	Pardon Me Daylily	#1 Cont.	Cont.	12" O.C.
195	HY HE	<i>Hylotelephium</i> 'Herbstfreude' <i>Autumn Joy</i>	Autumn Joy Sedum	#1 Cont.	Cont.	12" O.C.
16	MI SI	<i>Miscanthus sinensis</i> 'Gracillimus'	Maiden Grass	#2 Cont.	Cont.	24" O.C.
12	NE WL	<i>Nepeta</i> 'Walker's Low'	Walker's Low Catmint	#1 Cont.	Cont.	24" O.C.
4	PA CS	<i>Panicum virgatum</i> 'Cheyenne Sky'	Cheyenne Sky Switch Grass	#2 Cont.	Cont.	24" O.C.
20	PA VI	<i>Panicum virgatum</i> 'Shenandoah'	Shenandoah Switch Grass	#2 Cont.	Cont.	24" O.C.

\*Owner may substitute plant species based on availability & approval by City and Landscape Architect.

**LEGEND**

- EXISTING DECIDUOUS TREE
- PROPOSED LARGE DECIDUOUS TREE
- PROPOSED MEDIUM DECIDUOUS TREE
- PROPOSED SMALL DECIDUOUS TREE
- PROPOSED ORNAMENTAL TREE
- PROPOSED EVERGREEN TREE
- PROPOSED PERENNIALS
- PROPOSED TALL FESCUE GRASS

**Project Info**

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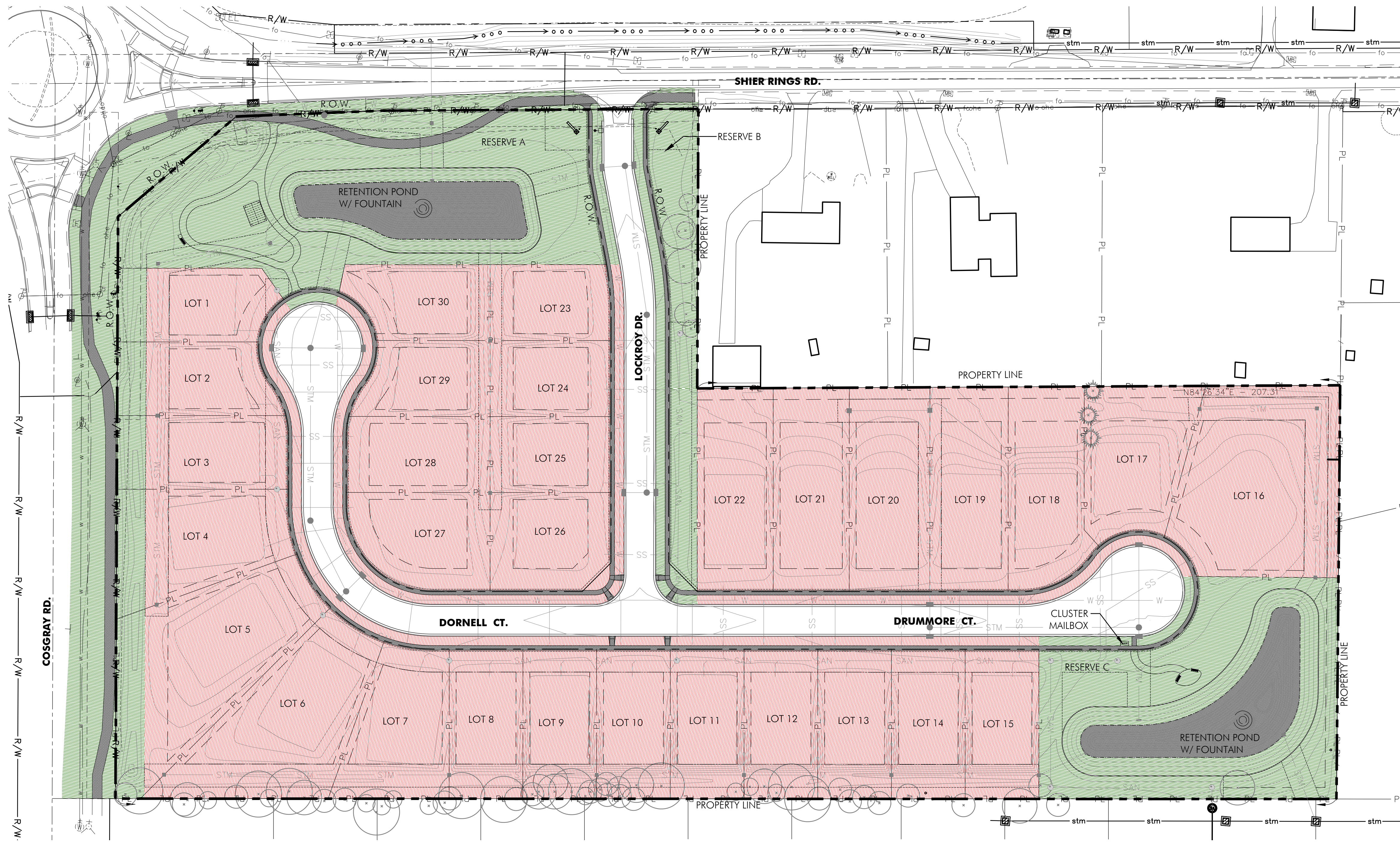
**Revisions**

**Sheet Title**

**PLANTING  
PLAN  
ENLARGEMENTS**

**Sheet #**

**L1.02**



**LEGEND**

- EXISTING DECIDUOUS TREE
- EXISTING EVERGREEN TREE
- INDIVIDUAL HOME OWNER MAINTENANCE AREA
- HOA MAINTENANCE AREA
- CITY MAINTENANCE AREA



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 Dublin, Ohio

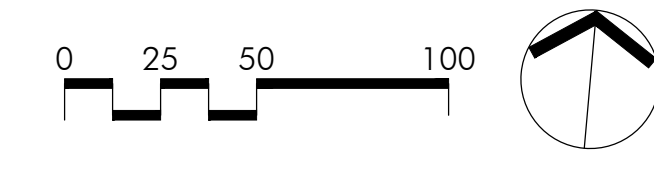
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 Dublin, OH 43016

**Project Info**

Project #	19053
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Scale	As Noted

**Revisions**

**Maintenance Responsibility Plan East**  
 SCALE: 1" = 50'-0"



**Sheet Title**  
**MAINTENANCE RESPONSIBILITY PLAN**

**Sheet #**  
**L1.03**

EVALUATION OF EXISTING TREES

ID #	Species	Common Name	Size	Condition	Status
7625	<i>Crataegus species</i>	hawthorn	15	Fair	B
7626	<i>Pyrus calleryana</i>	flowering pear	7	Fair	B*
7627	<i>Juglans nigra</i>	black walnut	20	Good	B
7628	<i>Juglans nigra</i>	black walnut	15	Fair	B
7629	<i>Juglans nigra</i>	black walnut	18	Good	B
7630	<i>Juglans nigra</i>	black walnut	20	Fair	B
7631	<i>Juglans nigra</i>	black walnut	19	Good	B
7632	<i>Juglans nigra</i>	black walnut	14	Good	B
7633	<i>Juglans nigra</i>	black walnut	13	Good	B
7634	<i>Juglans nigra</i>	black walnut	15	Good	B
7635	<i>Malus species</i>	crabapple	20	Fair	B
7636	<i>Pyrus calleryana</i>	flowering pear	21	Fair	A
7637	<i>Malus species</i>	crabapple	18	Poor	B
7638	<i>Malus species</i>	crabapple	10	Poor	A
7639	<i>Morus species</i>	mulberry	16	Fair	A
7640	<i>Juglans nigra</i>	black walnut	8	Excellent	A
7641	<i>Juglans nigra</i>	black walnut	9	Good	A
7642	<i>Picea abies</i>	Norway spruce	16	Good	A
7643	<i>Pinus strobus</i>	white pine	17	Good	A
7644	<i>Picea abies</i>	Norway spruce	11	Good	A
7645	<i>Picea abies</i>	Norway spruce	9	Good	B
7646	<i>Juglans nigra</i>	black walnut	8	Excellent	A
7647	<i>Juglans nigra</i>	black walnut	12	Good	A
7648	<i>Juglans nigra</i>	black walnut	11	Good	A
7649	<i>Prunus serotina</i>	black cherry	9	Good	A
7650	<i>Prunus serotina</i>	black cherry	8	Fair	A
7651	<i>Prunus serotina</i>	black cherry	27	Fair	A*
7652	<i>Prunus serotina</i>	black cherry	7	Poor	B
7653	<i>Acer saccharinum</i>	silver maple	85	Fair	A*
7654	<i>Acer negundo</i>	boxelder	6	Fair	A
7655	<i>Prunus serotina</i>	black cherry	15	Very Poor	A
7656	<i>Juglans nigra</i>	black walnut	6	Fair	A

7657	<i>Prunus serotina</i>	black cherry	11	Fair	A
7658	<i>Juglans nigra</i>	black walnut	6	Fair	A
7659	<i>Pyrus calleryana</i>	flowering pear	9	Fair	B*
7660	<i>Pyrus calleryana</i>	flowering pear	12	Fair	B*
7661	<i>Pyrus calleryana</i>	flowering pear	14	Fair	B*
7662	<i>Pyrus calleryana</i>	flowering pear	10	Fair	B*
7663	<i>Pyrus calleryana</i>	flowering pear	11	Fair	B*
7664	<i>Pyrus calleryana</i>	flowering pear	11	Fair	B*
7665	<i>Pyrus calleryana</i>	flowering pear	8	Fair	B*
7666	<i>Pyrus calleryana</i>	flowering pear	6	Fair	B*
7667	<i>Pyrus calleryana</i>	flowering pear	7	Fair	B*
7668	<i>Pyrus calleryana</i>	flowering pear	7	Fair	B*
7669	<i>Pyrus calleryana</i>	flowering pear	13	Fair	B*
7670	<i>Pyrus calleryana</i>	flowering pear	11	Fair	B*
7671	<i>Pyrus calleryana</i>	flowering pear	18	Fair	B*
7672	<i>Pyrus calleryana</i>	flowering pear	16	Fair	B*
7673	<i>Pyrus calleryana</i>	flowering pear	9	Fair	B*
7674	<i>Pyrus calleryana</i>	flowering pear	10	Fair	B*
7675	<i>Pyrus calleryana</i>	flowering pear	11	Fair	B*
7676	<i>Pyrus calleryana</i>	flowering pear	10	Fair	B*
7677	<i>Pyrus calleryana</i>	flowering pear	9	Fair	B*
7678	<i>Pyrus calleryana</i>	flowering pear	8	Fair	B*
7679	<i>Pyrus calleryana</i>	flowering pear	9	Fair	B*
7680	<i>Pyrus calleryana</i>	flowering pear	12	Poor	B*
7681	<i>Pyrus calleryana</i>	flowering pear	9	Fair	B*
7682	<i>Pyrus calleryana</i>	flowering pear	12	Fair	B*
7683	<i>Pyrus calleryana</i>	flowering pear	11	Fair	B*
7684	<i>Pyrus calleryana</i>	flowering pear	10	Fair	B*
7685	<i>Pyrus calleryana</i>	flowering pear	10	Fair	B*
7686	<i>Pyrus calleryana</i>	flowering pear	11	Fair	B*
7687	<i>Pyrus calleryana</i>	flowering pear	9	Fair	B*
7688	<i>Pyrus calleryana</i>	flowering pear	6	Fair	B
7689	<i>Pyrus calleryana</i>	flowering pear	11	Fair	B*

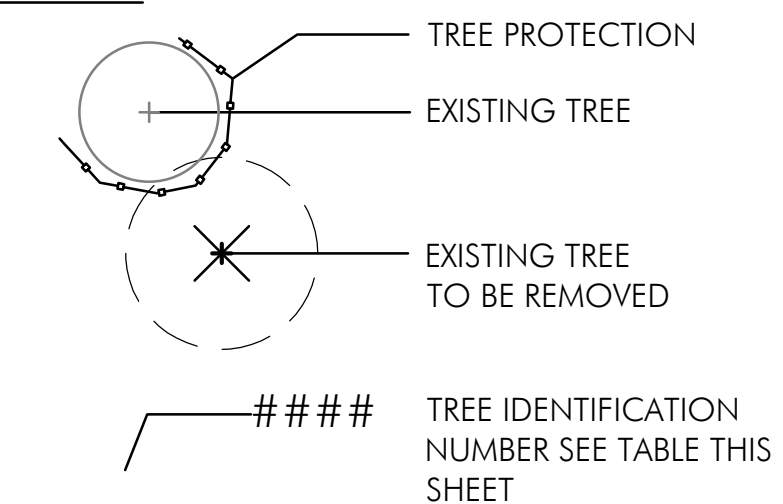
7690	<i>Pyrus calleryana</i>	flowering pear	13	Fair	B*
7691	<i>Pyrus calleryana</i>	flowering pear	18	Fair	B*
7692	<i>Pyrus calleryana</i>	flowering pear	11	Fair	B*
7693	<i>Pyrus calleryana</i>	flowering pear	11	Fair	B*
7694	<i>Pyrus calleryana</i>	flowering pear	12	Fair	B*
7695	<i>Pyrus calleryana</i>	flowering pear	11	Fair	B*
7696	<i>Pyrus calleryana</i>	flowering pear	8	Fair	B*
7697	<i>Pyrus calleryana</i>	flowering pear	7	Fair	B*
7698	<i>Pyrus calleryana</i>	flowering pear	9	Fair	B*
7699	<i>Pyrus calleryana</i>	flowering pear	8	Fair	B*
7700	<i>Pyrus calleryana</i>	flowering pear	9	Fair	B*
7701	<i>Pyrus calleryana</i>	flowering pear	10	Fair	B*
7702	<i>Pyrus calleryana</i>	flowering pear	7	Fair	B*
7703	<i>Pyrus calleryana</i>	flowering pear	8	Fair	B*
7704	<i>Pyrus calleryana</i>	flowering pear	10	Fair	B*
7705	<i>Pyrus calleryana</i>	flowering pear	7	Fair	B*
7706	<i>Celtis occidentalis</i>	hackberry	8	Poor	B
7707	<i>Juglans nigra</i>	black walnut	7	Good	A
7708	<i>Acer saccharinum</i>	silver maple	16	Fair	A
7709	<i>Juglans nigra</i>	black walnut	6	Fair	A
7710	<i>Acer saccharum</i>	sugar maple	16	Fair	A
7711	<i>Fraxinus americana</i>	white ash	26	Dead	B
7712	<i>Quercus palustris</i>	pin oak	12	Good	B
7713	<i>Juglans nigra</i>	black walnut	6	Fair	B
7714	<i>Acer saccharinum</i>	silver maple	6	Good	A
7715	<i>Acer saccharinum</i>	silver maple	6	Good	A
7716	<i>Acer saccharinum</i>	silver maple	6	Good	A
7717	<i>Acer saccharinum</i>	silver maple	16	Fair	B*
7718	<i>Acer saccharinum</i>	silver maple	17	Fair	B*
7719	<i>Acer saccharinum</i>	silver maple	8	Poor	B
7720	<i>Morus species</i>	mulberry	8	Fair	B
7721	<i>Pyrus calleryana</i>	flowering pear	14	Fair	B
7722	<i>Morus species</i>	mulberry	15	Fair	B*

7723	<i>Morus species</i>	mulberry	17	Fair	B*
7724	<i>Acer saccharinum</i>	silver maple	8	Poor	B
7725	<i>Acer saccharinum</i>	silver maple	13	Fair	B
7726	<i>Pyrus calleryana</i>	flowering pear	12	Poor	B
7727	<i>Morus species</i>	mulberry	7	Fair	B
7728	<i>Morus species</i>	mulberry	6	Poor	B
7729	<i>Morus species</i>	mulberry	14	Fair	B
7730	<i>Pyrus calleryana</i>	flowering pear	18	Fair	B
7731	<i>Morus species</i>	mulberry	17	Fair	B
7732	<i>Acer saccharinum</i>	silver maple	32	Poor	B*
7733	<i>Pyrus calleryana</i>	flowering pear	14	Fair	B
7734	<i>Morus species</i>	mulberry	6	Good	B
7735	<i>Juglans nigra</i>	black walnut	6	Excellent	B
7736	<i>Morus species</i>	mulberry	8	Fair	B
7737	<i>Malus species</i>	crabapple	6	Fair	B
7738	<i>Acer saccharinum</i>	silver maple	14	Fair	B
7739	<i>Pyrus calleryana</i>	flowering pear	8	Poor	B
7740	<i>Juglans nigra</i>	black walnut	8	Good	B
7741	<i>Morus species</i>	mulberry	17	Fair	B*
7742	<i>Malus species</i>	crabapple	10	Fair	B*
7743	<i>Morus species</i>	mulberry	8	Good	B
7744	<i>Prunus serotina</i>	black cherry	7	Fair	B
7745	<i>Pyrus calleryana</i>	flowering pear	6	Fair	B
7746	<i>Pyrus calleryana</i>	flowering pear	10	Fair	B
7747	<i>Prunus serotina</i>	black cherry	43	Very Poor	A*
7748	<i>Prunus serotina</i>	black cherry	15	Poor	A
7749	<i>Prunus serotina</i>	black cherry	9	Fair	A
7750	<i>Prunus serotina</i>	black cherry	12	Fair	A
7751	<i>Celtis occidentalis</i>	hackberry	8	Good	A
7752	<i>Celtis occidentalis</i>	hackberry	8	Fair	A
7753	<i>Celtis occidentalis</i>	hackberry	8	Fair	A
7754	<i>Celtis occidentalis</i>	hackberry	9	Good	A
7755	<i>Celtis occidentalis</i>	hackberry	8	Good	A

7756	<i>Celtis occidentalis</i>	hackberry	7	Fair	A
7757	<i>Celtis occidentalis</i>	hackberry	40	Fair	A*
7758	<i>Acer saccharinum</i>	silver maple	17	Fair	A
7759	<i>Celtis occidentalis</i>	hackberry	16	Fair	A
7760	<i>Celtis occidentalis</i>	hackberry	18	Poor	A
7761	<i>Prunus serotina</i>	black cherry	12	Good	A
7762	<i>Acer saccharinum</i>	silver maple	8	Dead	A
7763	<i>Acer saccharinum</i>	silver maple	37	Fair	A
7764	<i>Acer saccharinum</i>	silver maple	31	Fair	A
7765	<i>Prunus serotina</i>	black cherry	8	Very Poor	A
7766	<i>Acer saccharum</i>	sugar maple	10	Good	A
7767	<i>Prunus serotina</i>	black cherry	6	Good	A
7768	<i>Pyrus calleryana</i>	flowering pear	7	Fair	A
7769	<i>Celtis occidentalis</i>	hackberry	7	Fair	A
7770	<i>Celtis occidentalis</i>	hackberry	36	Poor	A*
7771	<i>Celtis occidentalis</i>	hackberry	7	Very Poor	A
7772	<i>Celtis occidentalis</i>	hackberry	7	Poor	A
7773	<i>Fraxinus americana</i>	white ash	9	Very Poor	A
7774	<i>Prunus serotina</i>	black cherry	9	Good	A
7775	<i>Ulmus americana</i>	American elm	16	Fair	A
7776	<i>Acer saccharinum</i>	silver maple	38	Poor	A
7777	<i>Prunus serotina</i>	black cherry	6	Good	A
7778	<i>Celtis occidentalis</i>	hackberry	35	Fair	A
7779	<i>Acer saccharinum</i>	silver maple	11	Fair	A
7780	<i>Juglans nigra</i>	black walnut	7	Good	A
7781	<i>Ulmus americana</i>	American elm	15	Very Poor	A
7782	<i>Ulmus americana</i>	American elm	8	Poor	A
7783	<i>Acer saccharinum</i>	silver maple	24	Very Poor	A
7784	<i>Acer saccharinum</i>	silver maple	9	Poor	A

\* MULTI-STEM TREE

PLANT KEY



EXISTING TREE CONDITION AND STATUS KEY

CONDITION	STATUS
EXCELLENT	(A) PRESERVE
GOOD	
FAIR	
POOR	(B) REMOVE
DEAD	

NOTES FOR TREES REMOVED

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 CALCULATED REPLACEMENT TOTAL = COMBINED 1,107 CALIPER - 145 EXEMPT CALIPER = 962 CALIPER INCHES

TOTAL TREES REQUIRED FOR REPLACEMENT:  
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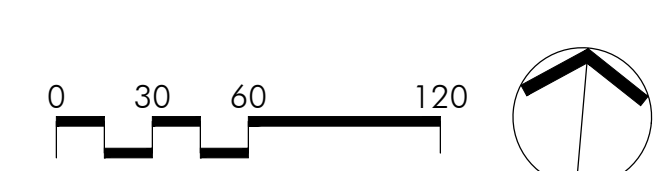
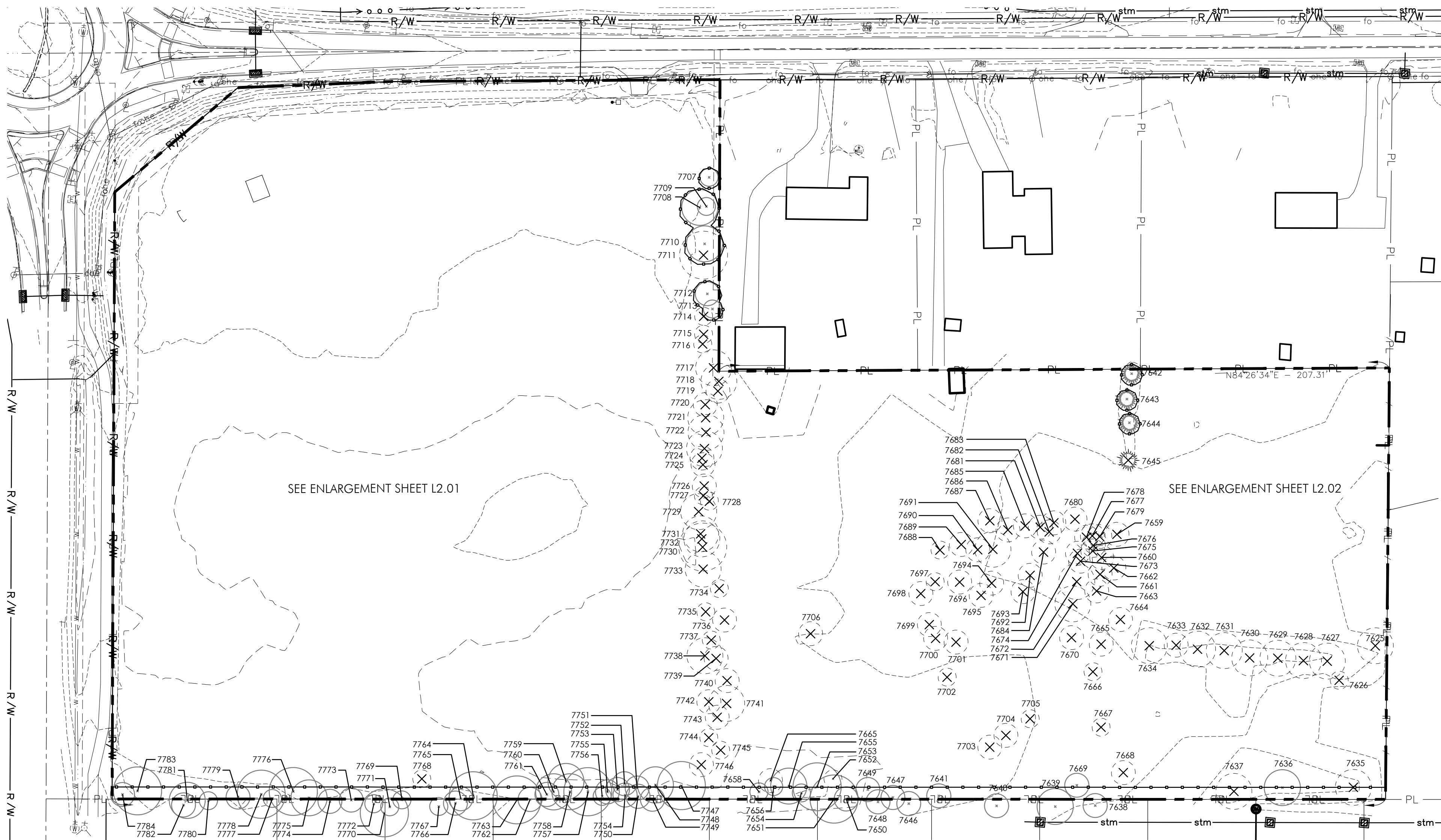
\*\*515 OF 962 ARE FLOWERING PEAR

NOTES FOR TREES PROVIDED ON SHEET L1.00

TOTAL REPLACEMENT TREES ON SITE  
 227 BUFFER AREAS AND RESERVE TREES (588 CALIPER INCHES)  
 (DOES NOT INCLUDE STREET TREES)

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Preliminary Tree Removal Plan  
 SCALE: 1" = 60'-0"



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**Project Name**  
**Ayrshire Farms**  
 Dublin, Ohio

**Prepared For**

MC Shier Rings LLC  
 P.O. Box 3001  
 Dublin, OH 43016

**Project Info**

Project # 19053  
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 By GB/TF  
 Scale As Noted

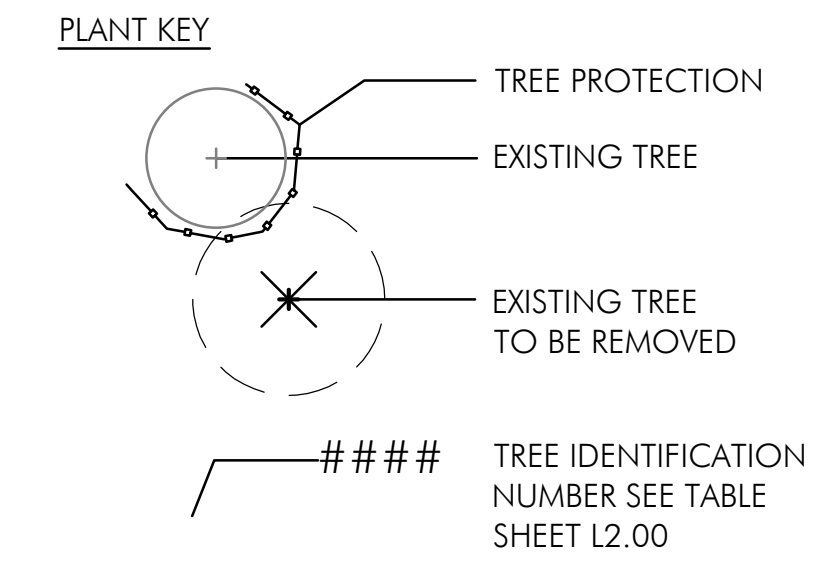
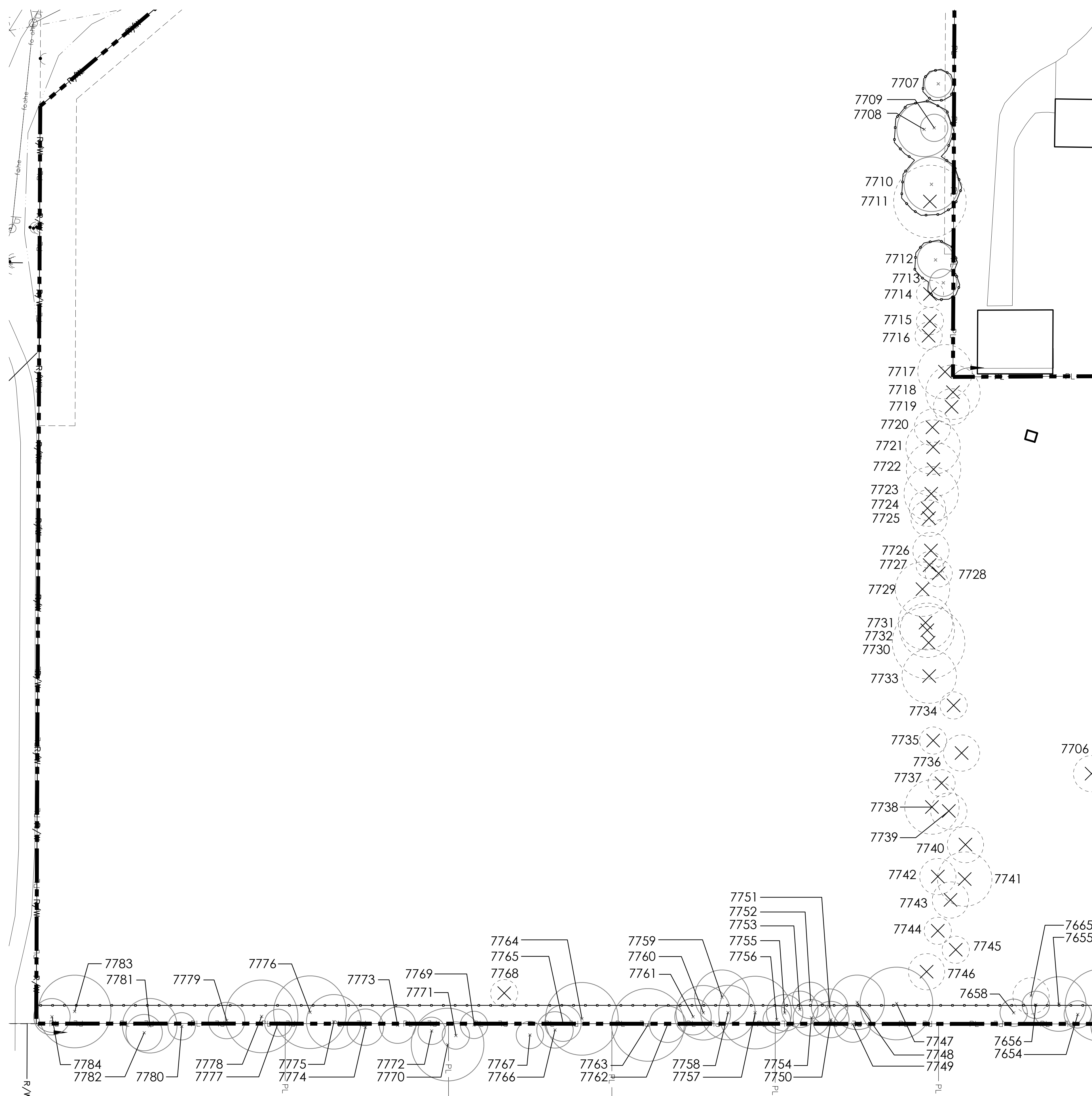
**Revisions**

**Sheet Title**

**TREE  
 REMOVAL  
 PLAN**

**Sheet #**

**L2.00**



**EXISTING TREE CONDITION AND STATUS KEY**

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GOOD	(A) PRESERVE
FAIR	
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**Project Name**  
**Ayrshire Farms**  
 Dublin, Ohio

**Prepared For**  
 MC Shier Rings LLC  
 P.O. Box 3001  
 Dublin, OH 43016

**Project Info**

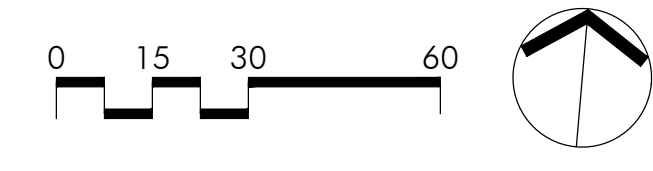
Project # 19053  
 Date 07/30/21  
 By GB/TF  
 Scale As Noted

**Revisions**

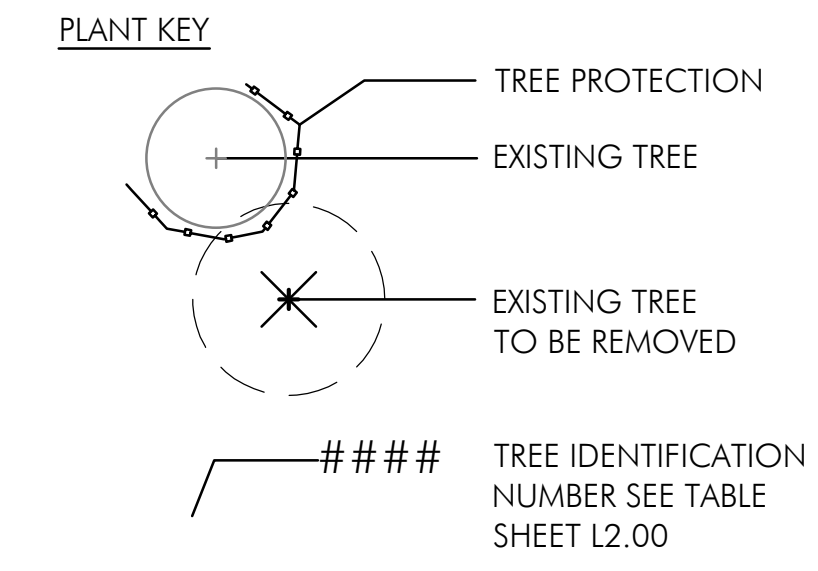
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**TREE  
 REMOVAL  
 PLAN  
 ENLARGEMENT**

**Sheet #**  
**L2.01**

**Tree Removal Plan Enlargement**  
 SCALE: 1" = 30'-0"







**EXISTING TREE CONDITION AND STAUUS KEY**

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EXCELLENT	(A) PRESERVE
GOOD	(A) PRESERVE
FAIR	
POOR	(B) REMOVE
DEAD	

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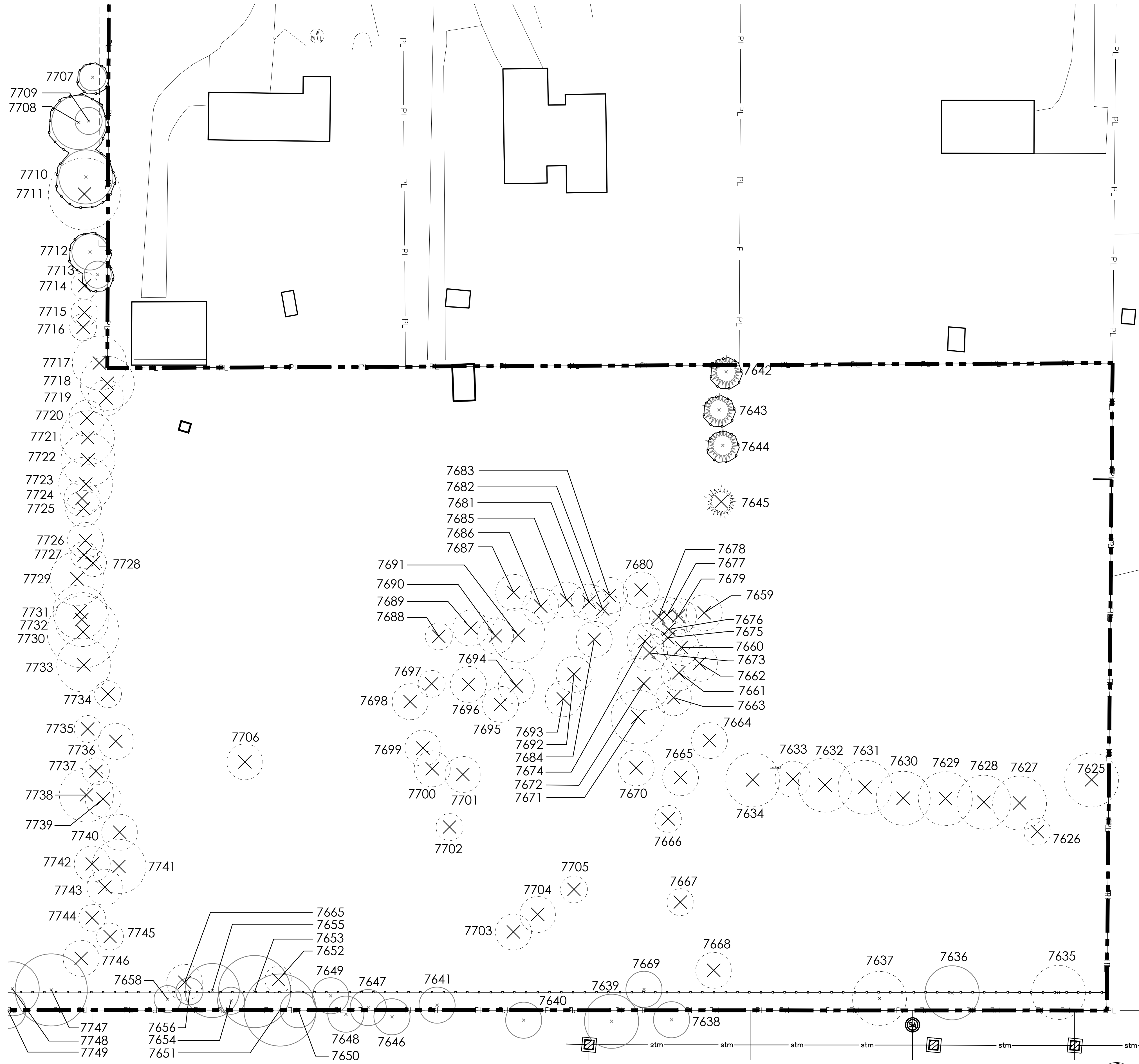
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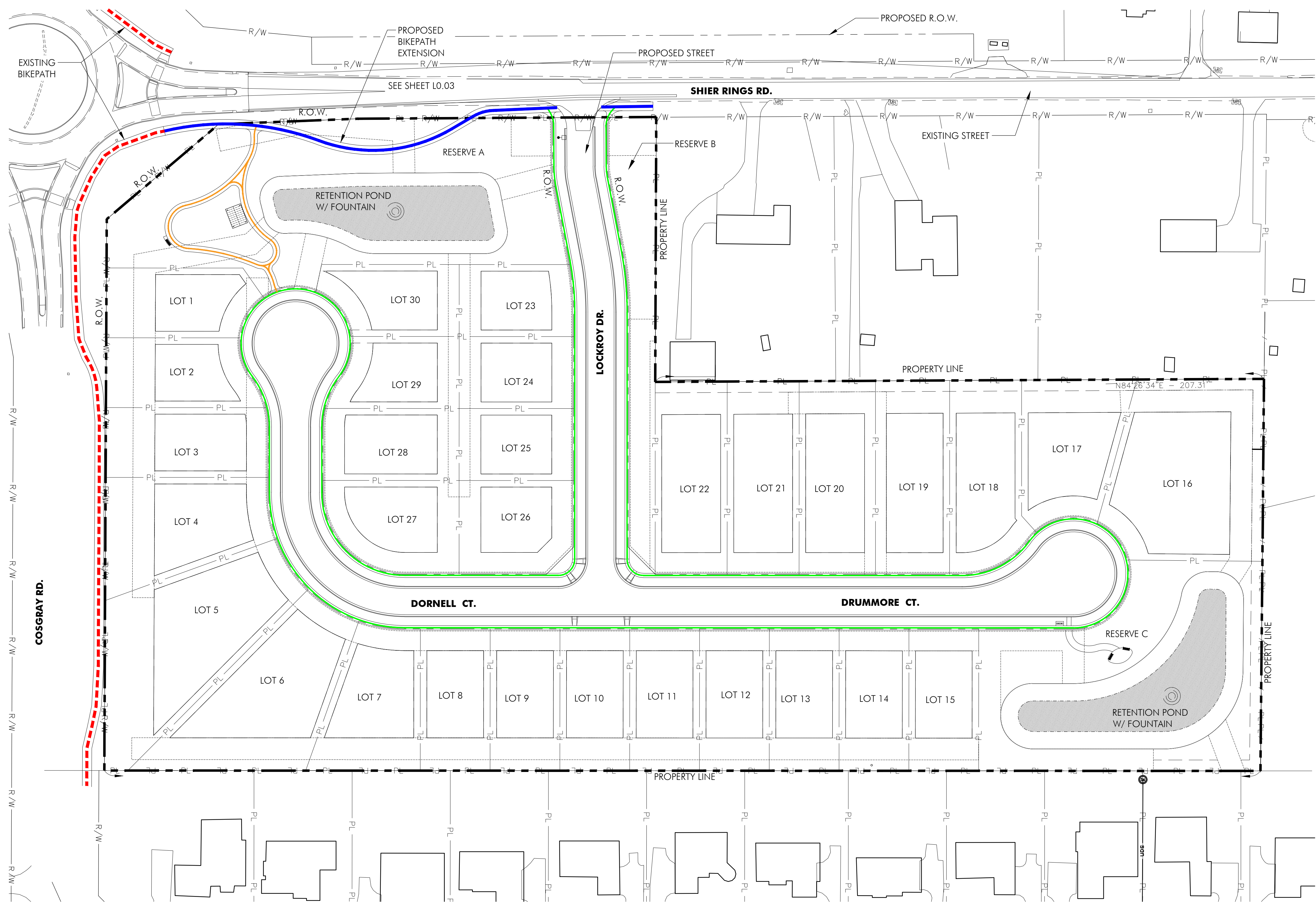
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**Tree Removal Plan Enlargement**  
SCALE: 1" = 30'-0"



**LEGEND**

- PROPOSED 4' CONCRETE WALK
- PROPOSED 8' SHARED-USE PATH
- - - EXISTING 8' SHARED-USE PATH
- PROPOSED 6' RESERVE A CONNECTOR & LOOP PATH



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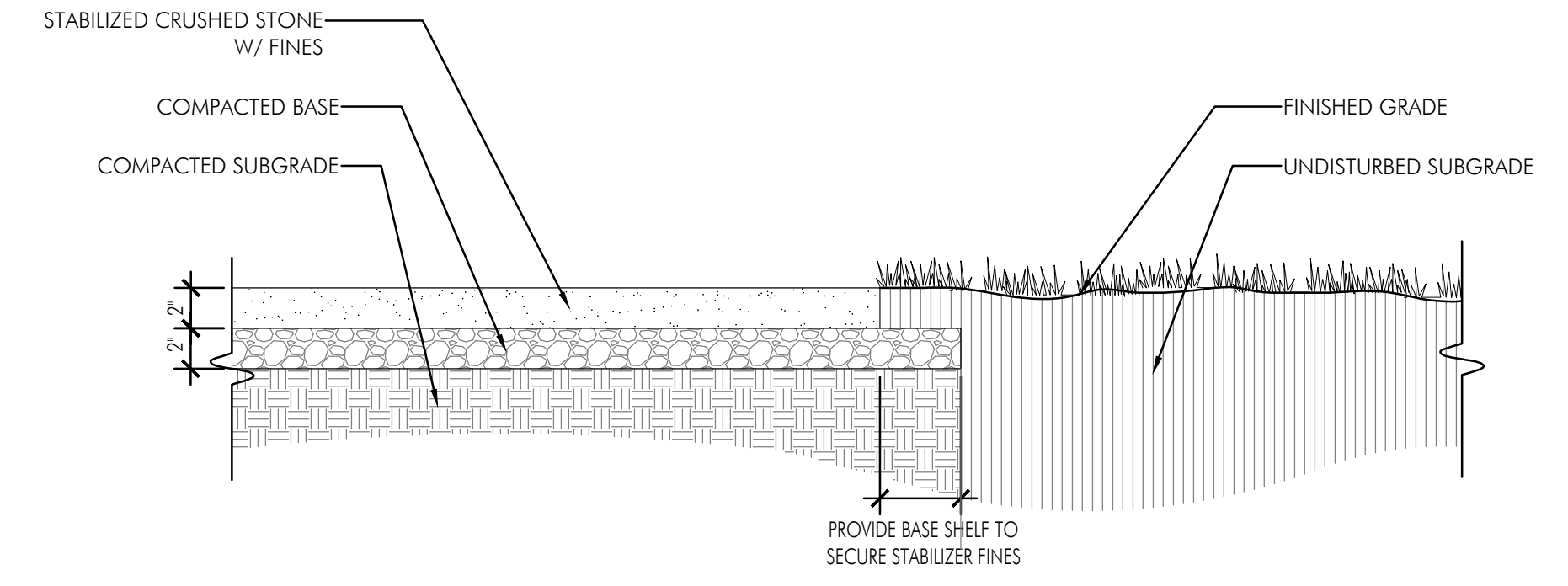
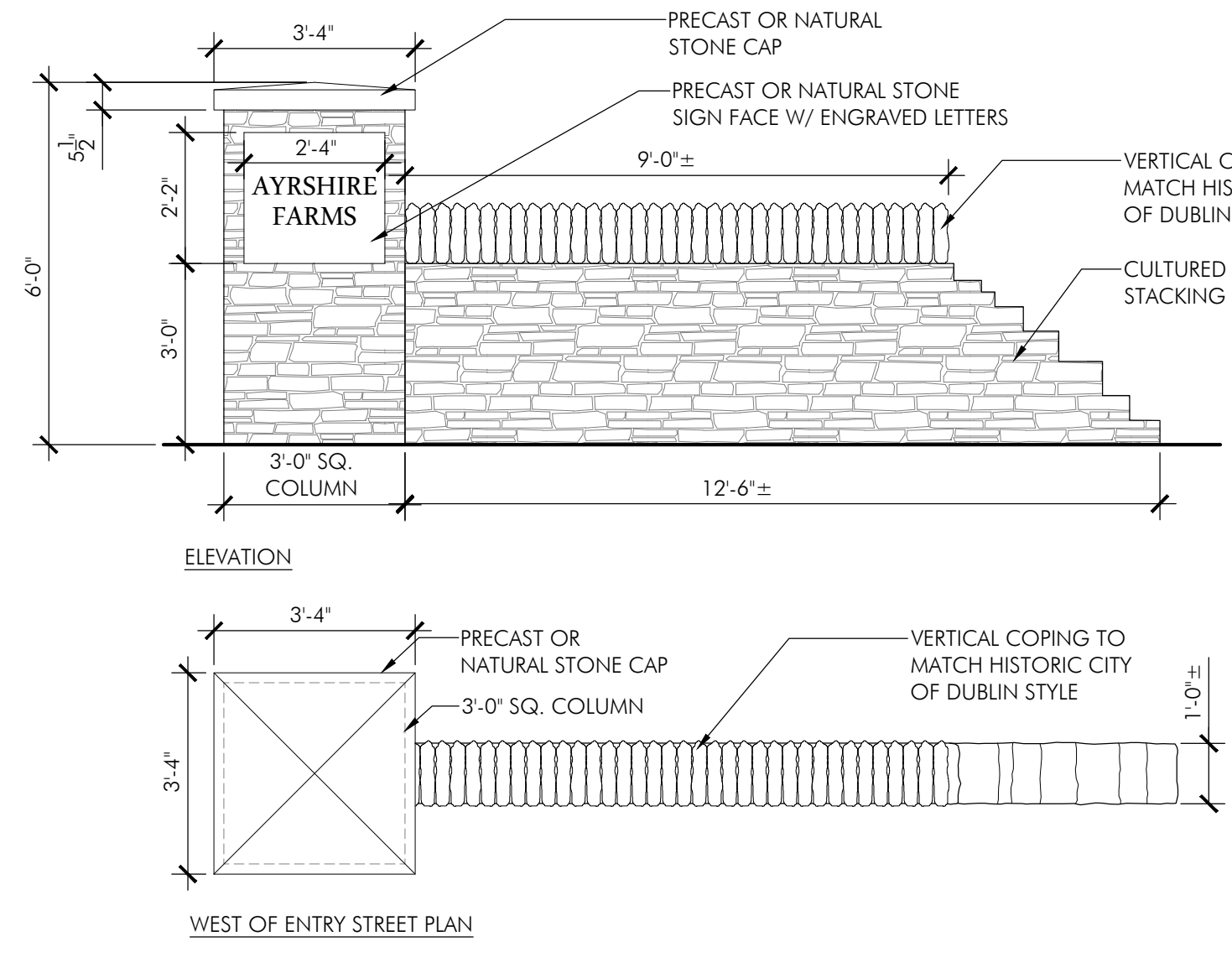
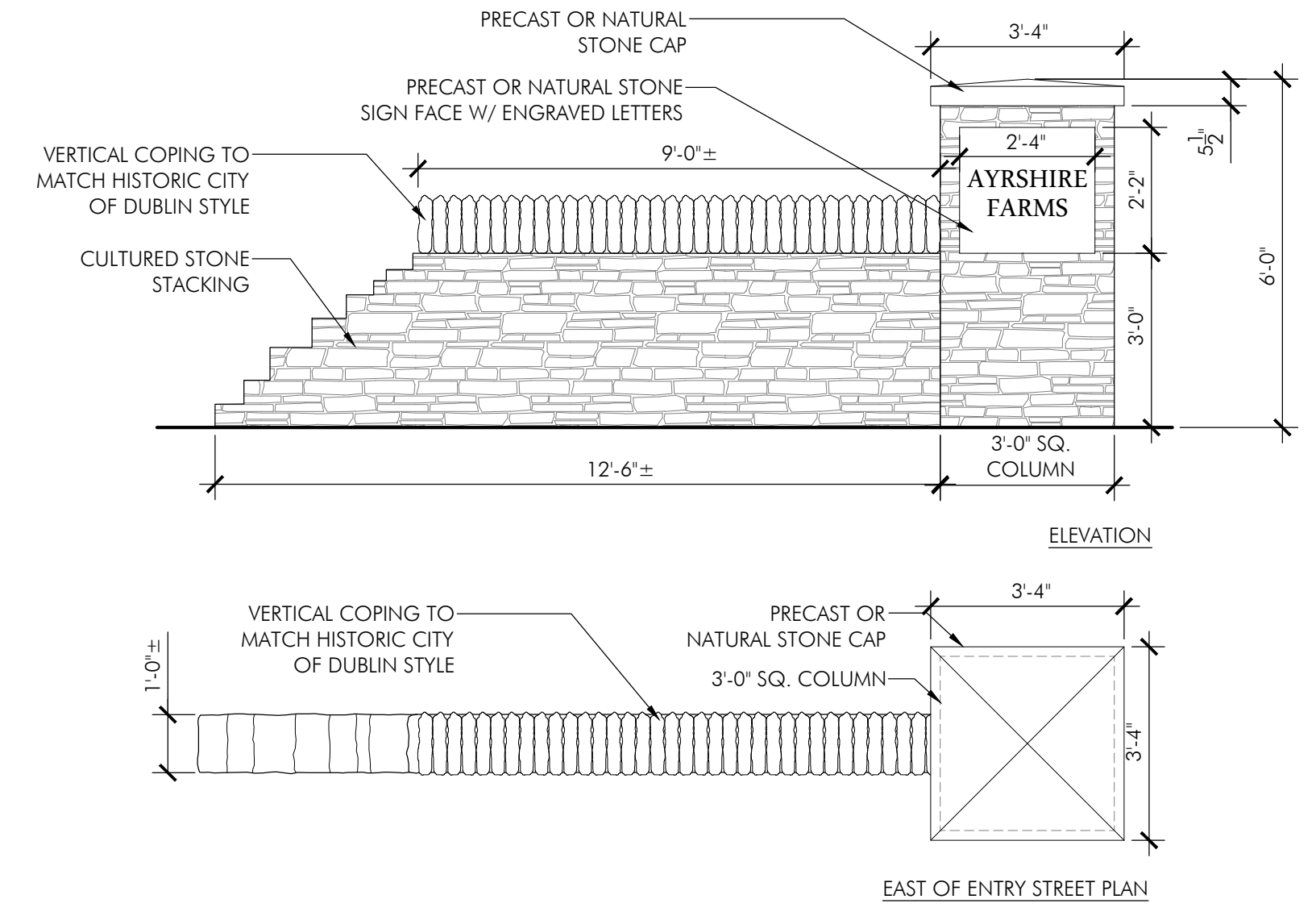
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 Project # 19053  
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 Scale As Noted

**Revisions**

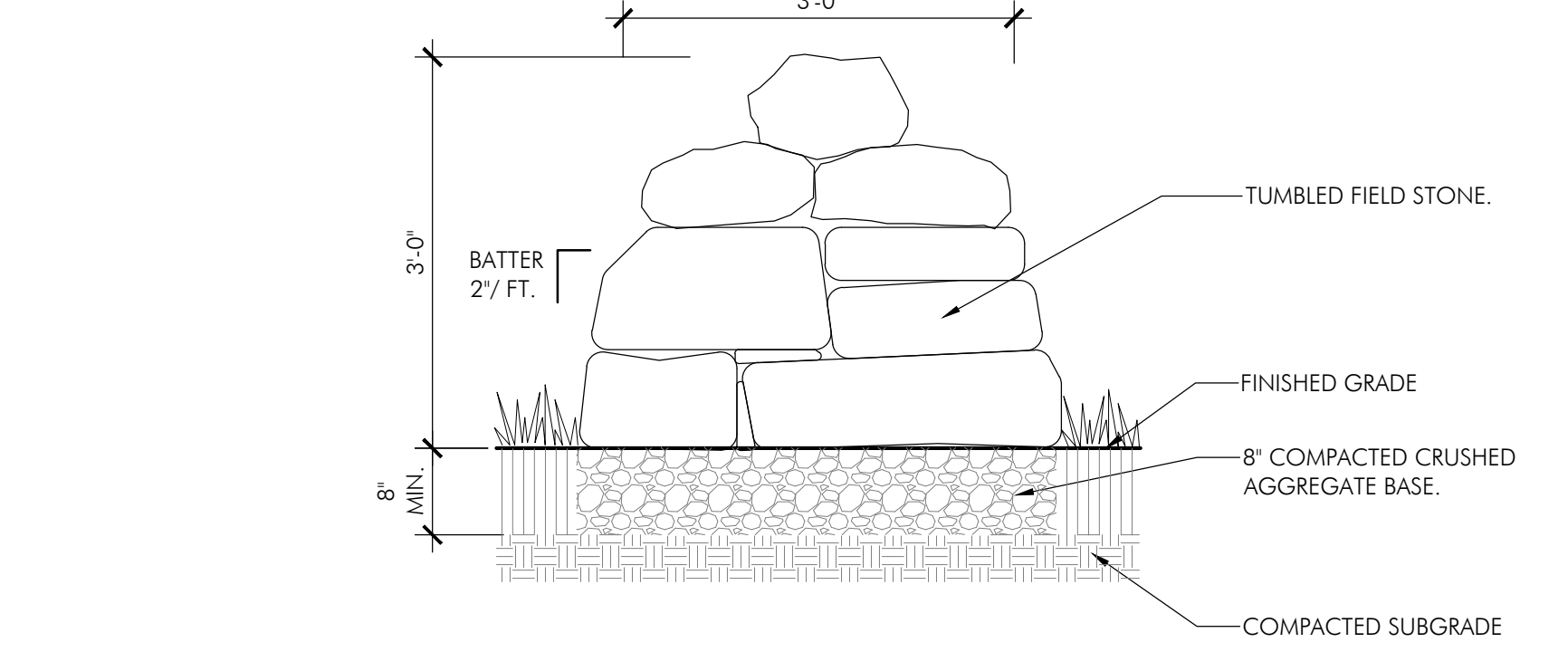
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**Pedestrian Circulation Plan**

**Sheet #**  
**L3.00**

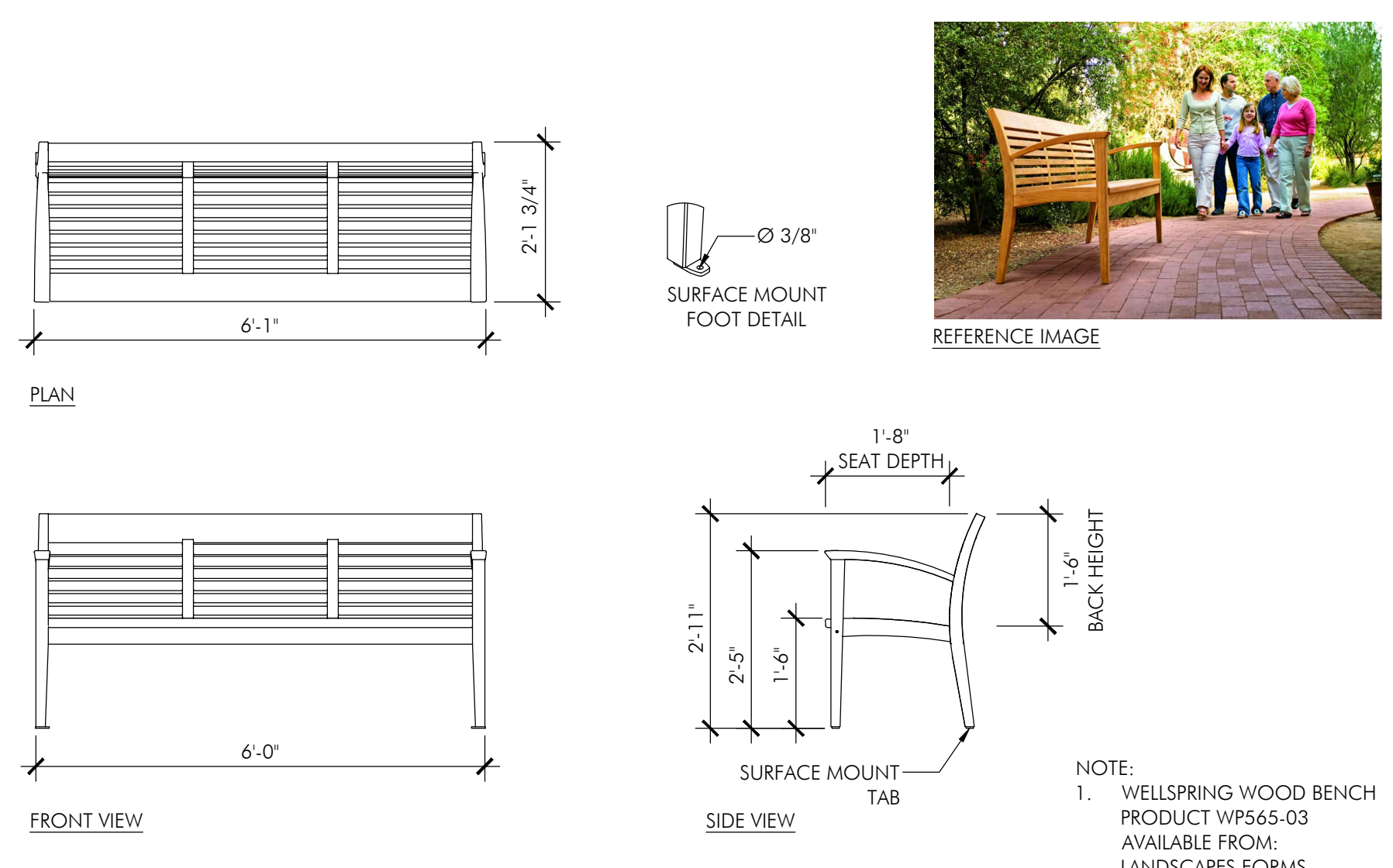
**Pedestrian Circulation Plan**  
 SCALE: 1" = 50'-0"



**1** Entry Sign Wall  
3/8"=1'-0"

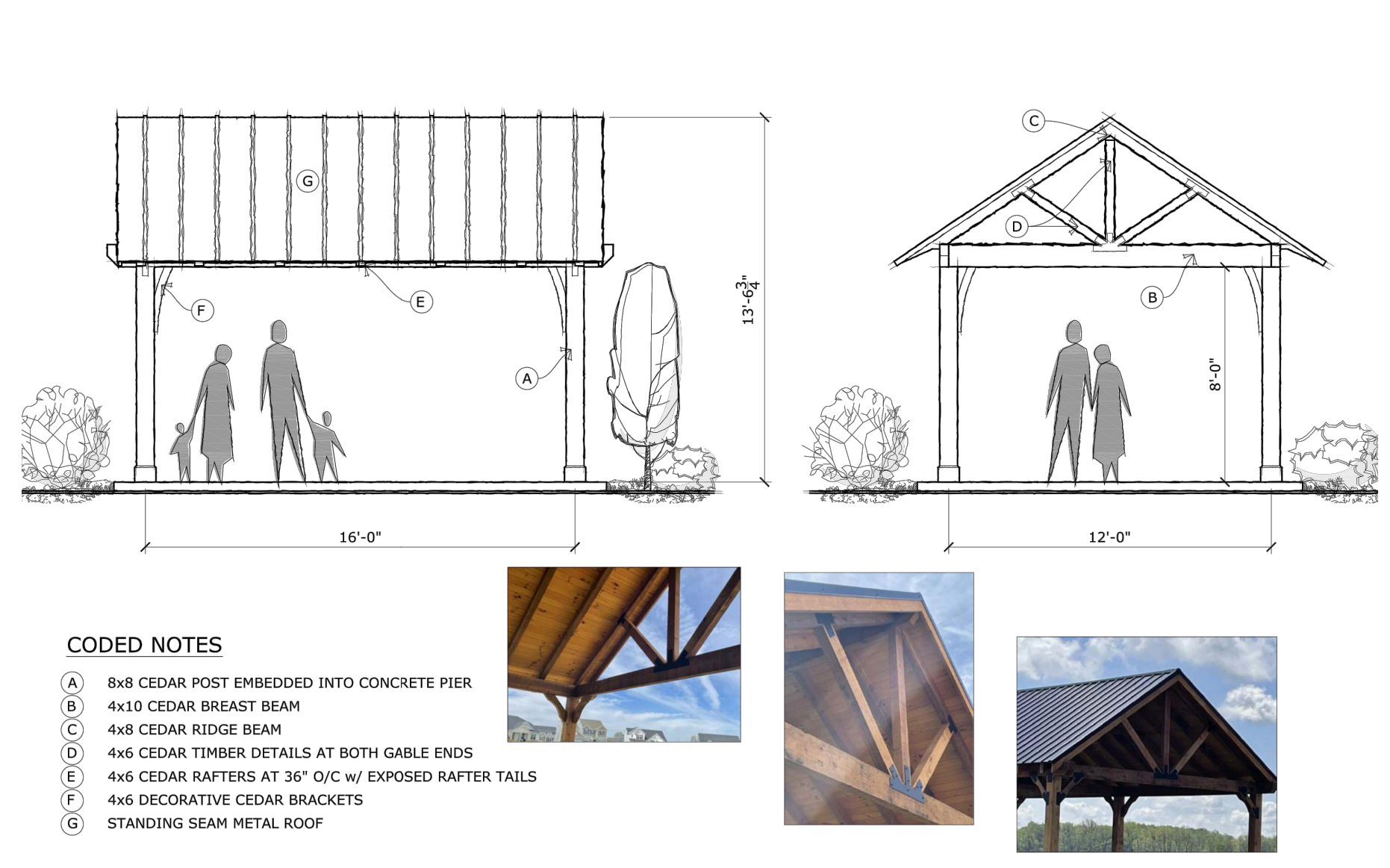


**3** Tumbled Stone / Boulder Wall  
3/4"=1'-0"



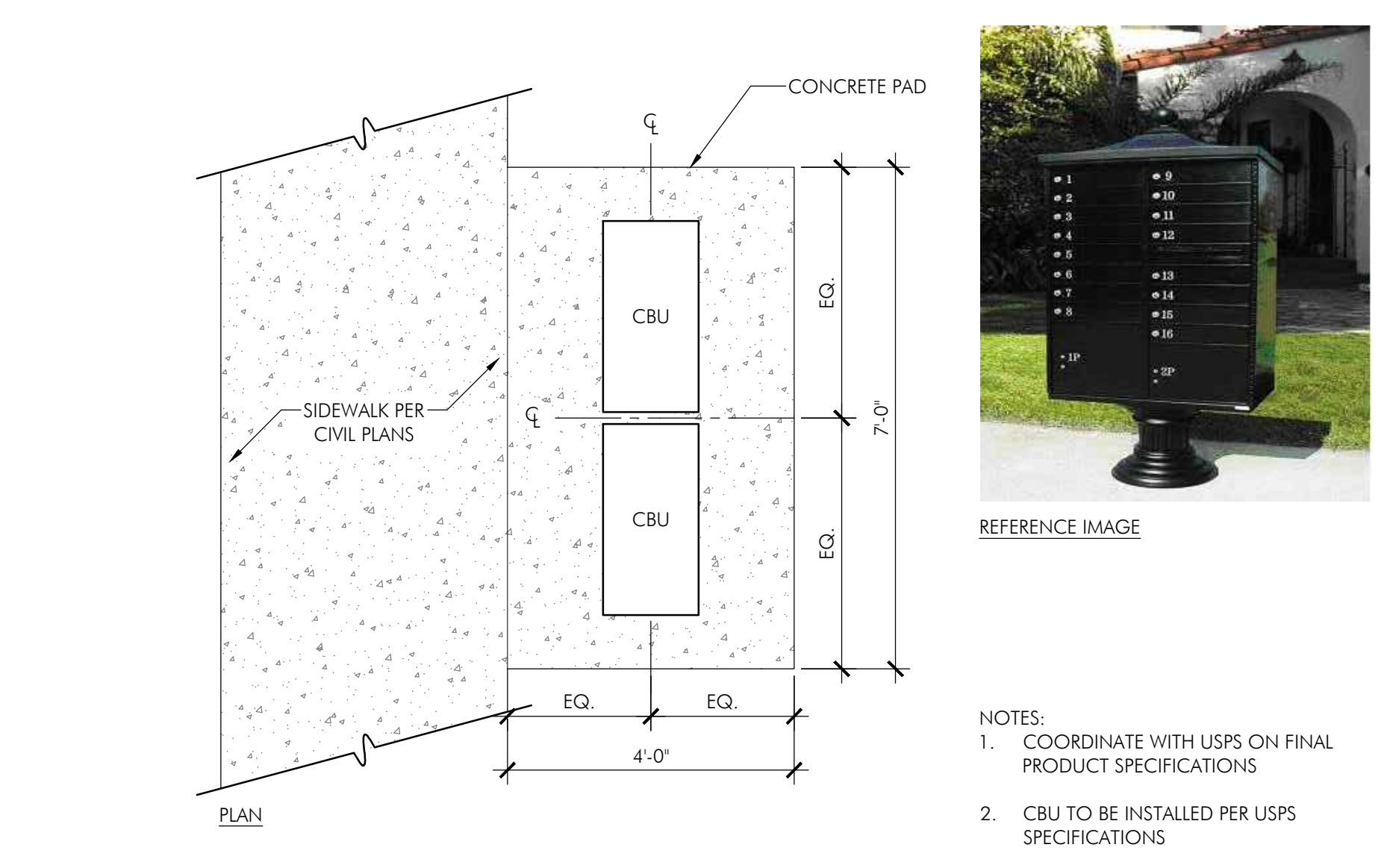
**6** Wellspring Bench  
1/2"=1'-0"

**2** Stabilized Stone Fines  
1 1/2"=1'-0"



**4** Neighborhood Pavilion  
3/16"=1'-0"

**5** Cluster Mailbox  
1/2"=1'-0"



**5** Cluster Mailbox  
1/2"=1'-0"

- CODED NOTES**
- (A) 8x8 CEDAR POST EMBEDDED INTO CONCRETE PIER
  - (B) 4x10 CEDAR BREAST BEAM
  - (C) 4x8 CEDAR RIDGE BEAM
  - (D) 4x6 CEDAR TIMBER DETAILS AT BOTH GABLE ENDS
  - (E) 4x6 CEDAR RAFTERS AT 36" O/C W/ EXPOSED RAFTER TAILS
  - (F) 4x6 DECORATIVE CEDAR BRACKETS
  - (G) STANDING SEAM METAL ROOF

**High Output Solar Spot Light**

Light up your house, business, signs, trees or pretty much any feature with this super high-output solar spot light. This is by far the brightest solar spot light we have tested. Included is a 1/2" Heavy Duty PVC stake to secure the light into the ground.

Our optional wall mount allows you to mount this light on the side of any building, overhang, or deck.

This unit is 100% wireless and easy to install. Simply stick it into the ground in an area of your yard that receives sufficient daytime sunlight, point it where you want and you're done!

- Brightness: 125 Lumens
- Color: 5700K Cool White
- Operating Time: 8-10 Hours
- Measurements: Height: 10" X 8"
- 1X Light
- 1X Solar Panel
- 1X Yard Stake
- 1 Year Manufacturer Warranty

SIGN UPLIGHT

**WVR9007EK**  
Westover Outdoor Lantern  
Earth Black

**QUOIZEL LIGHTING**

**DETAILS**  
Material: Steel  
Glass/Shade Description: Clear Beveled Glass

**LAMPING**  
Light Source: LED  
Bulb Included: No  
Bulb Type: Medium Base  
Bulb Quantity: 1  
Watts per Bulb: 23w eq 150

**ELECTRICAL**  
Dimmable: Yes  
Voltage: 120v  
Wire Length: 8.5'

**INSTALLATION**  
Location Rating: Wet  
Sloped Ceiling Compatible: No

**DIMENSIONS**  
Dimensions: 7.00" W x 20.50" H x 7.00" D  
Weight: 6.69 lbs

INDIVIDUAL HOME POST LIGHT

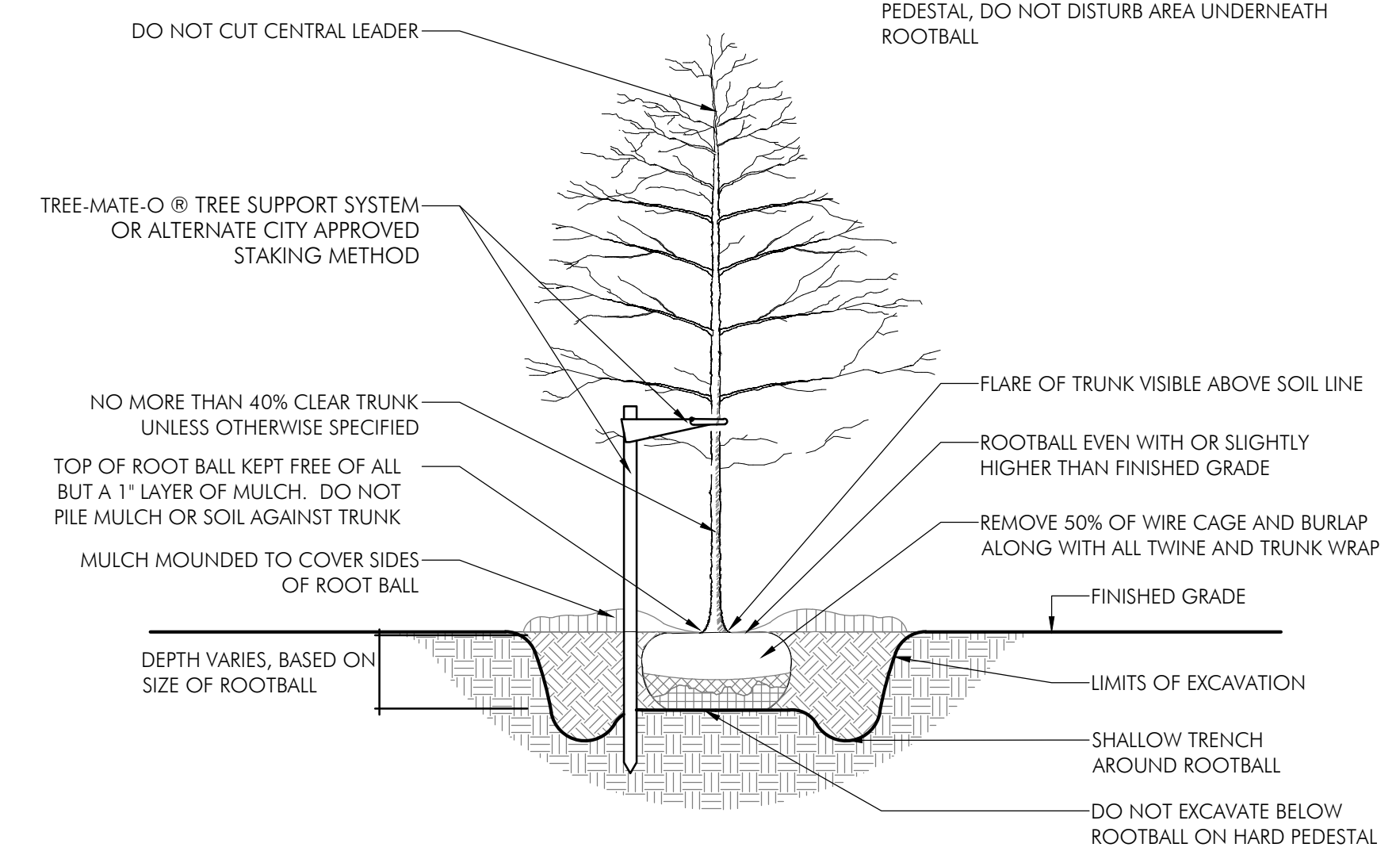
**LIGHTING NOTE:**  
FIXTURES SHOWN ARE FOR THE BASIS OF DESIGN INTENT. OWNER MAY SUBSTITUTE LIGHT FIXTURES BASED ON AVAILABILITY & APPROVAL BY CITY AS MEETING DESIGN INTENT



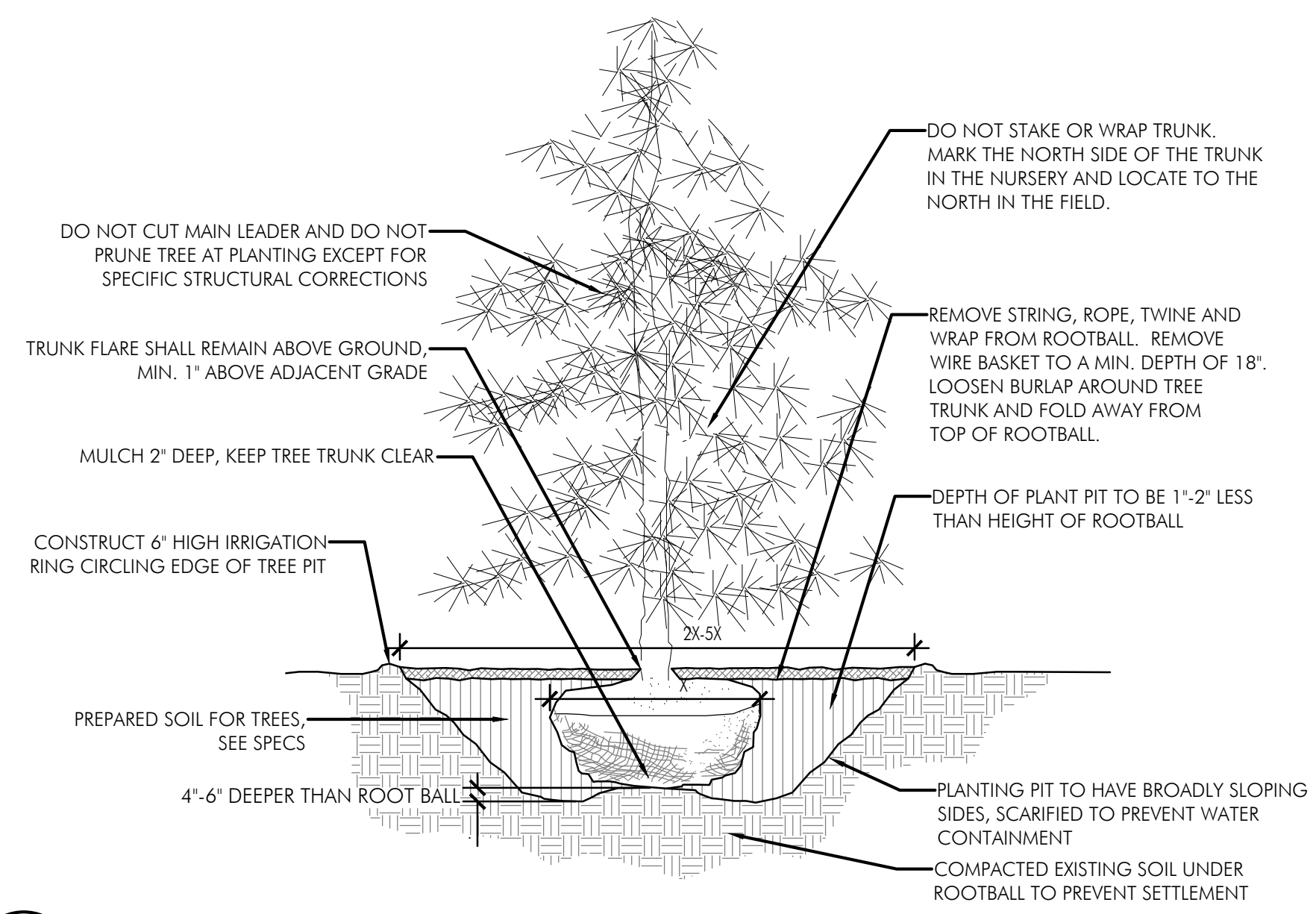
REFERENCE IMAGE

- NOTES:**
1. COORDINATE WITH USPS ON FINAL PRODUCT SPECIFICATIONS
  2. CBU TO BE INSTALLED PER USPS SPECIFICATIONS

NOTES:  
1. MEASURE ROOTBALL AND SET 1" HIGHER ON HARD PEDESTAL. DO NOT DISTURB AREA UNDERNEATH ROOTBALL



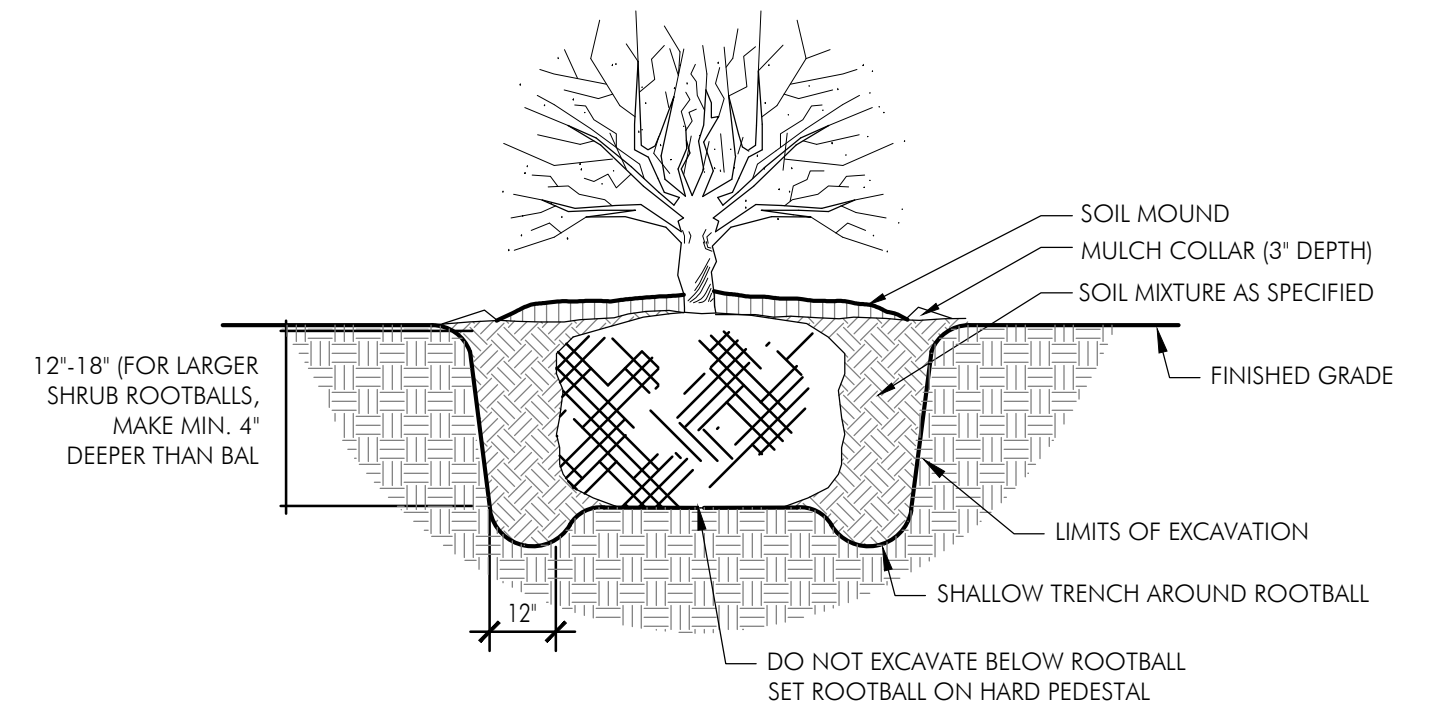
**1** Deciduous Tree Planting  
N.T.S.



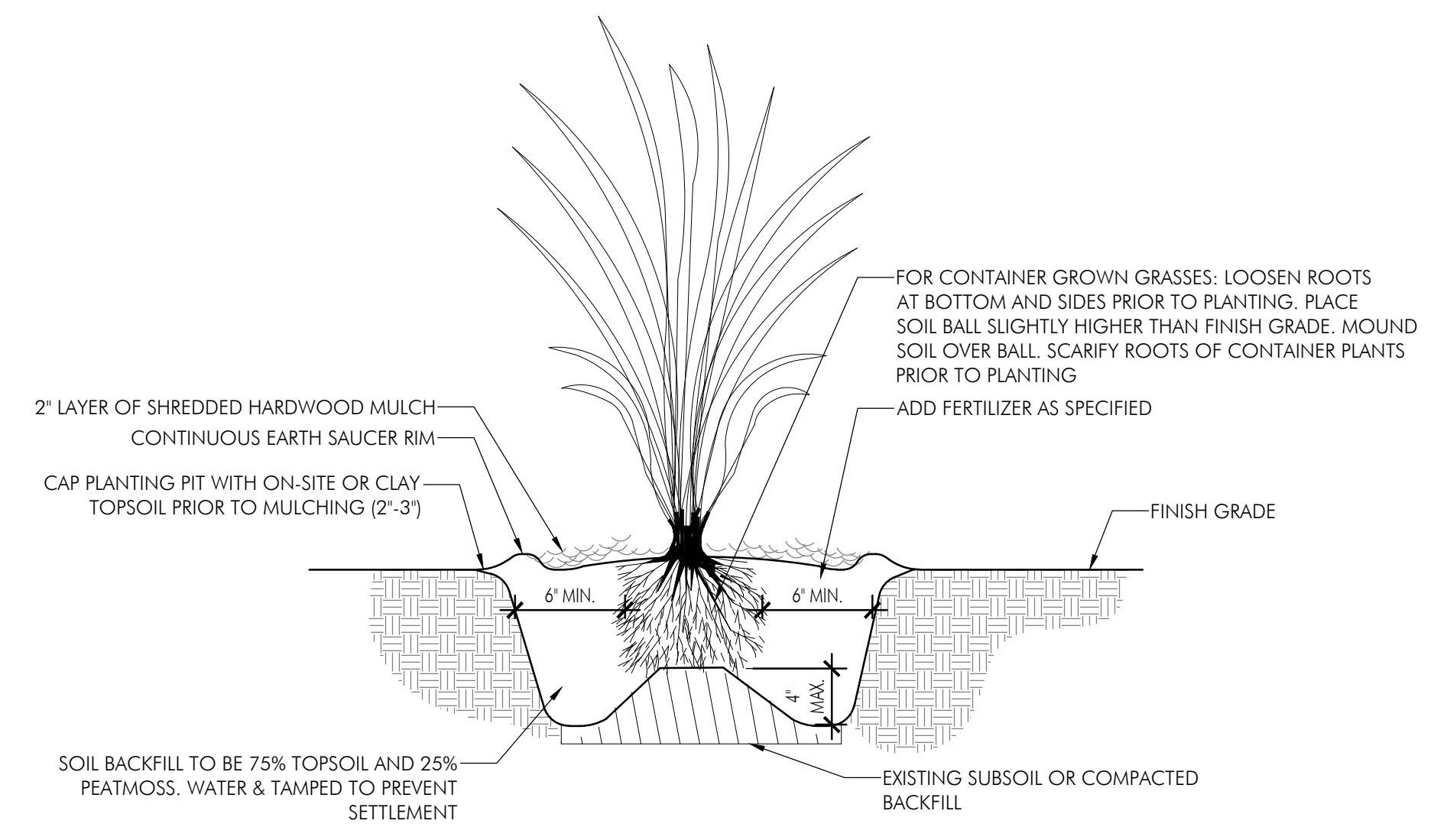
**2** Evergreen Tree Planting  
1"=1'-0"

THE AMOUNT OF PRUNING SHALL BE LIMITED TO 1/3 OF THE BRANCHES TO COMPENSATE FOR LOSS OF ROOTS FROM TRANSPLANTING. REMOVE DEAD AND INJURED LIMBS. REMOVE BURLAP AND WIRE OR TWINE FROM TOP AND SIDES OF BALL. CENTER SHRUB IN HOLE. SET TOP OF BALL 1-3" ABOVE FINISH GRADE.

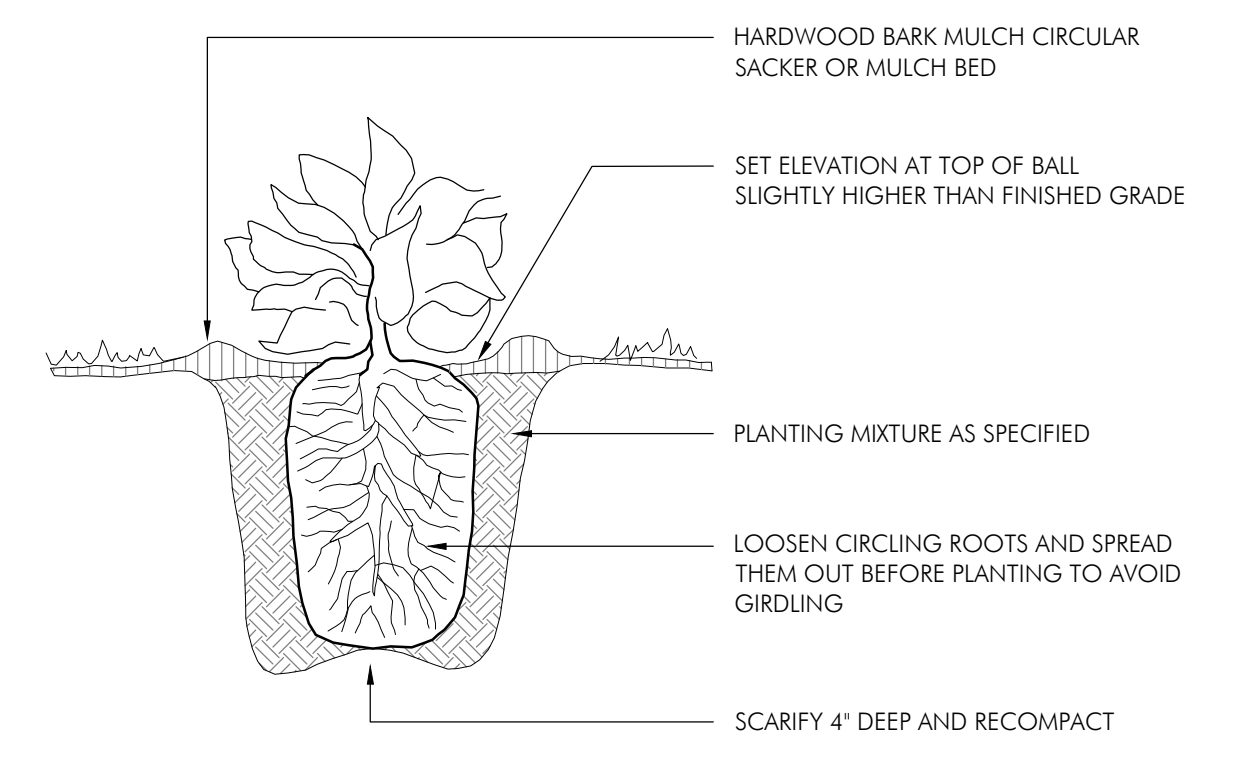
NOTES:  
1. DO NOT PRUNE SHRUBS DURING INSTALLATION  
2. MEASURE ROOTBALL AND SET 1" HIGHER ON HARD PEDESTAL. DO NOT DISTURB AREA UNDERNEATH ROOTBALL



**3** Shrub Planting  
N.T.S.



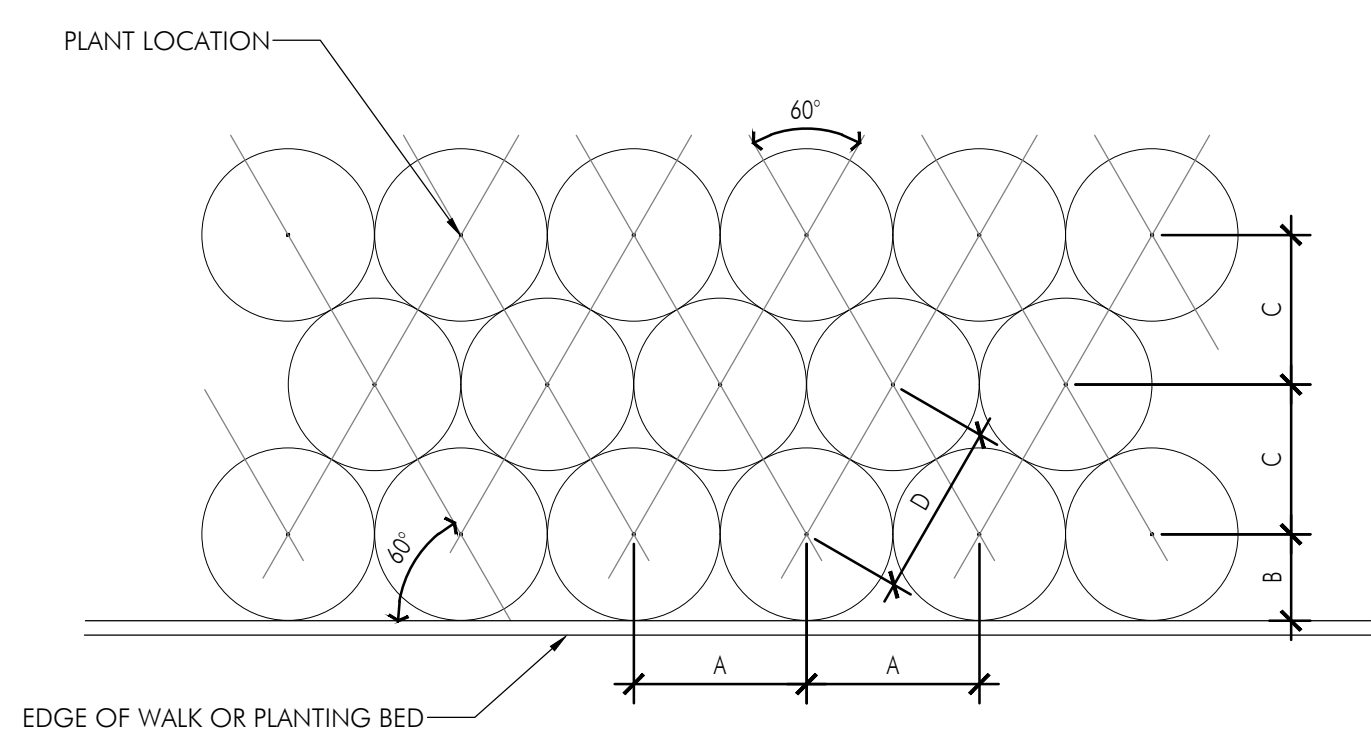
**4** Ornamental Grass Planting  
1 1/2"=1'-0"



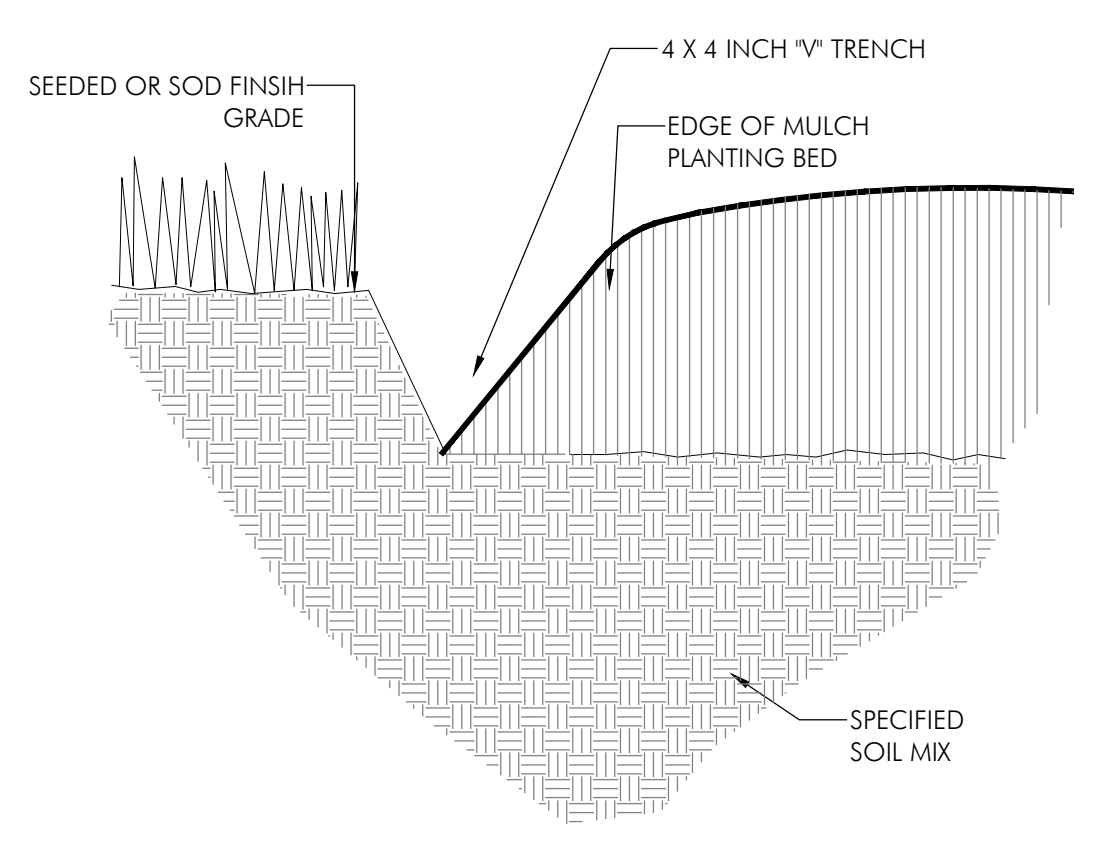
**5** Perennial Planting  
N.T.S.

SPACING	A	B	C	D
12"	12"	6"	10"	12"
18"	18"	8"	15"	18"
24"	24"	10"	20"	24"
36"	36"	18"	31"	36"
48"	48"	21"	41"	48"

A= SPACING  
B= SP/2  
C= SP/1.2  
D= SPACING



**6** Typical Plant Spacing  
N.T.S.



**7** Mulch Edge  
N.T.S.



Front Elevation

## The Bristol I



Front Elevation

## The Bristol II



Rear Elevation

## The Bristol I



Rear Elevation

## The Bristol II

**NOTE:**

**ARCHITECTURAL ELEVATIONS ARE CONCEPTUAL ONLY.  
FINAL BUILDING ELEVATIONS WILL BE SUPPLIED AS PART  
OF INDIVIDUAL HOME OWNER BUILDING PERMIT PROCESS**



Front Elevation

## The Aberdeen



Front Elevation

## The Carrick



Front Elevation

## The Redding



Rear Elevation

## The Aberdeen



Rear Elevation

## The Carrick



Rear Elevation

## The Redding

**NOTE:**

**ARCHITECTURAL  
ELEVATIONS ARE  
CONCEPTUAL ONLY.  
FINAL BUILDING  
ELEVATIONS WILL BE  
SUPPLIED AS PART OF  
INDIVIDUAL HOME  
OWNER BUILDING  
PERMIT PROCESS**

**SHEET INDEX**

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PLAN & PROFILE	C300-C302
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MASTER GRADING PLAN	C600
BASIN DETAILS	C700
EROSION & SEDIMENT CONTROL PLAN	C800
EROSION & SEDIMENT CONTROL NOTES	C801
EROSION & SEDIMENT CONTROL DETAILS	C802

**SITE DATA**

**ZONING:**

PROPERTY OWNER: MC SHIER RINGS LLC  
 PARCEL ID: 274-012321  
 PROPOSED USE: RESIDENTIAL DEVELOPMENT

SITE ACREAGE:  
 TOTAL: 11.372 AC  
 PROP RIGHT-OF-WAY: 1.825 AC  
 RESERVE AREAS: 0.780 AC

ZONING: PUD  
 FEMA FLOODPLAIN: ZONE X  
 FEMA FIRM PANEL No.: 39049C0133K

NUMBER OF UNITS 30

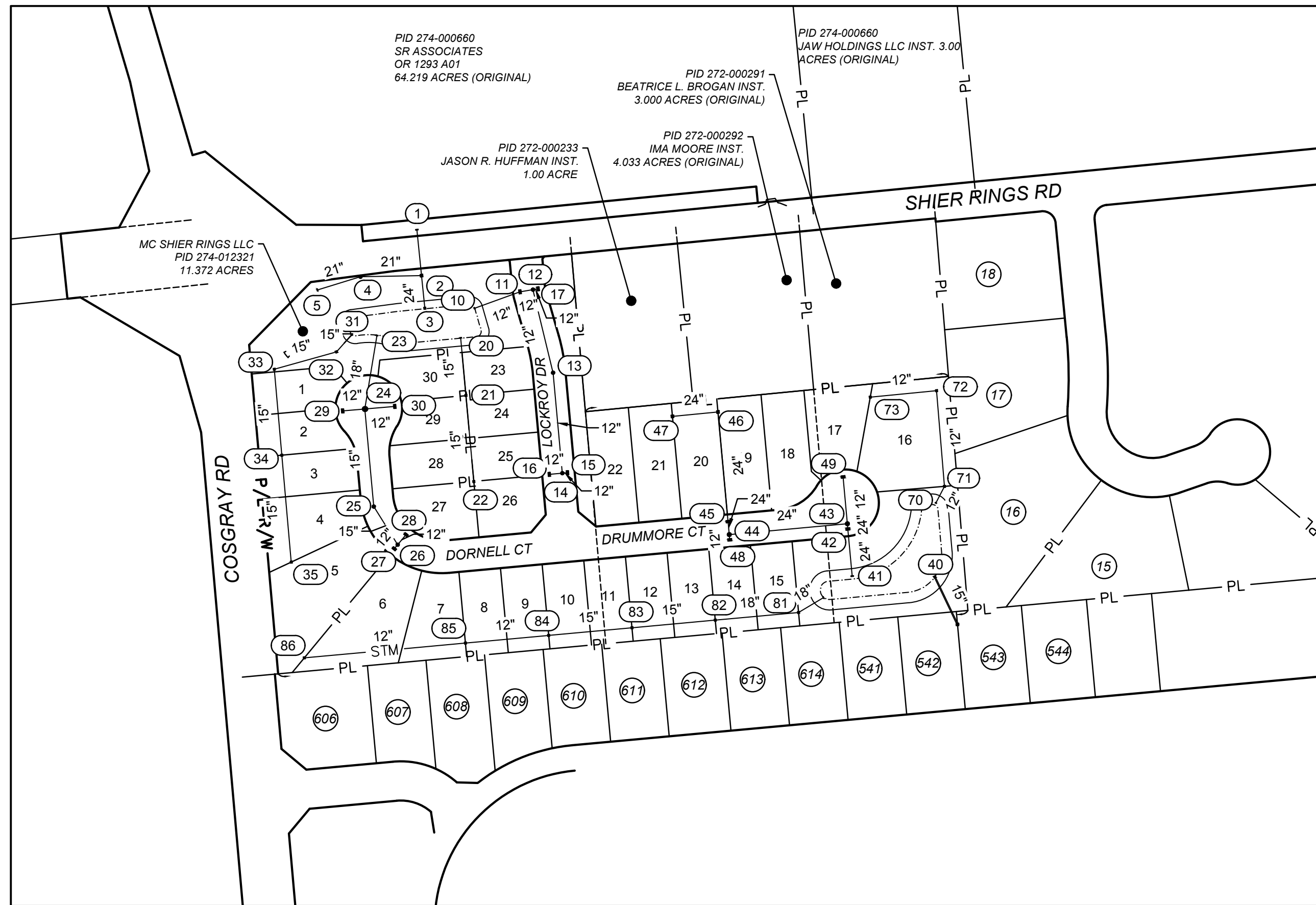
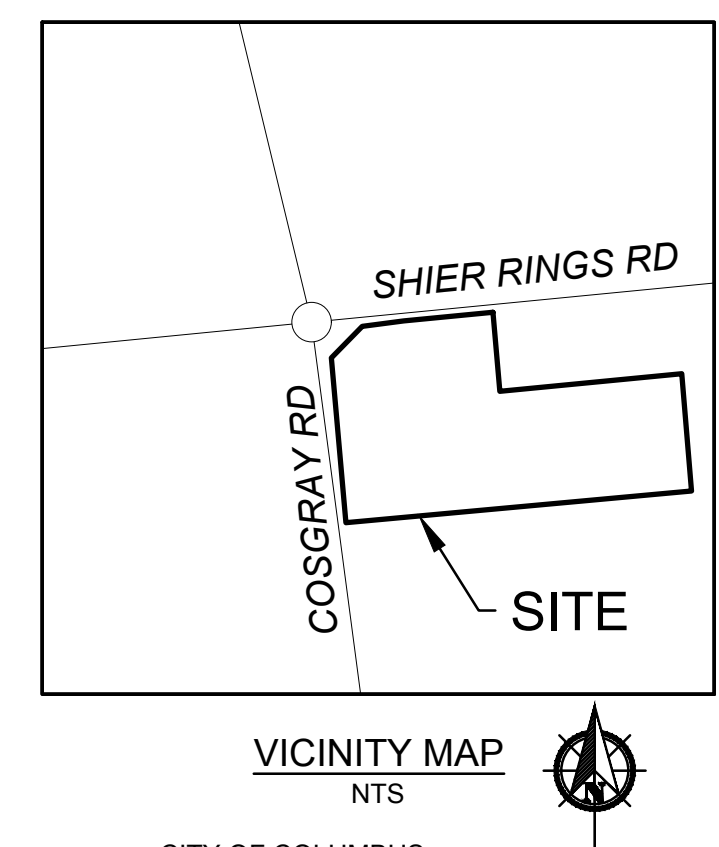
PUBLIC STREET, STORM, AND WATER IMPROVEMENTS

# AYRSHIRE FARMS

## SHIER RINGS ROAD

### CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

## 2021



**UTILITY CONTACTS**

**AMERITECH**  
 408 CRITES ROAD  
 CIRCLEVILLE, OH 43113  
 PHONE: (740) 477-3658

**AMERICAN ELECTRIC POWER**  
 850 TECH CENTER DRIVE  
 GAHANNA, OH 43230  
 PHONE: (614) 883-6831

**CITY OF DUBLIN**  
 DIVISION OF ENGINEERING  
 5800 SHIER-RINGS ROAD  
 DUBLIN, OH 43016  
 PHONE: (614) 410-4600

**CITY OF COLUMBUS**  
 DIVISION OF WATER  
 910 DUBLIN ROAD  
 COLUMBUS, OH 43215  
 PHONE: (614) 645-7788

**COLUMBIA GAS OF OHIO**  
 200 S CIVIC CENTER DR  
 COLUMBUS, OH 43215  
 PHONE: (614) 460-6000

**TIME WARNER CABLE**  
 1980 ALUM CREEK DR  
 COLUMBUS, OH 43207  
 PHONE: (614) 918-8439

**STANDARD CONSTRUCTION DRAWINGS**

THE STANDARD CONSTRUCTION DRAWINGS LISTED ON THESE PLANS SHALL BE CONSIDERED A PART THEREOF.

CITY OF DUBLIN (2020 EDITION)	ODOT	CITY OF COLUMBUS			
MD-02 RD-03 ST-05	BP-3.1	AA-S102	AA-S128	AA-S168	L-6316A
MD-05 RD-05 WA-01		AA-S106	AA-S133A	L-1001	L-6409A
PD-02 RD-09		AA-S107	AA-S133B	L-6306	L-6637A
PD-03 RD-10		AA-S110	AA-S134B	L-6309A	L-6640
PD-04 SA-04		AA-S112	AA-S139/141	L-6309B	L-7001
PD-06 ST-01		AA-S117	AA-S140	L-6310	L-8502
RD-01 ST-03		AA-S119	AA-S149/151	L-6311	L-9901
RD-02 ST-04		AA-S125A	AA-S150	L-6312	

REGISTERED ENGINEER E-76866 DATE

**APPROVED:**

**CITY OF DUBLIN:**  
 SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT AND DOES NOT CONSTITUTE ASSURANCE TO OPERATE AS INTENDED. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL CIVIL ENGINEER PREPARING THE PLANS.

CITY ENGINEER, CITY OF DUBLIN, OHIO DATE  
 PAUL A. HAMMERSMITH, P.E.

**CITY OF COLUMBUS:**

CITY OF COLUMBUS SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLAN. APPROVAL FOR SANITARY SEWERS ONLY.

APPROVAL ON THE PART OF THE CITY OF COLUMBUS IS GIVEN PURSUANT TO THE PROVISIONS OF THE SEWER SERVICE AGREEMENT WITH CITY OF DUBLIN ON 12/14/92, ORDINANCE NO. 2692-92, AND ALL SUBSEQUENT AMENDMENTS THEREOF.

SANITARY SEWER MEETS OR EXCEEDS CITY OF COLUMBUS DESIGN STANDARDS (INCLUDING PER CAPITA FLOW, PEAKING FACTOR, AND I/I ALLOWANCE) AND MATERIAL SPECIFICATIONS.

ADMINISTRATOR, DIVISION OF SEWERAGE & DRAINAGE DATE  
 CITY OF COLUMBUS, OHIO

DIRECTOR, DEPARTMENT OF PUBLIC UTILITIES DATE  
 CITY OF COLUMBUS, OHIO

**ADJACENT OWNER INFORMATION**

LOT No.	OWNER	PID	ACREAGE
15	DYBERT RICHARD L	272-000371-00	0.71
16	HARTMAN ARTHUR RAYMOND TR	272-000372-00	0.96
17	STICKEY CHARLOTTE L	272-000373-00	0.71
18	RAMSEY MICHAEL E	272-000374-00	0.71
541	KEEL ADAM D	274-001153-00	0.31
542	D SILVA JOYCE V	274-001154-00	0.31
543	BOFF JEFFERY	274-001155-00	0.34
544	KANE JOHNNIE M	274-001156-00	0.34
606	PORTER KENNETH E	274-001297-00	0.49
607	SMITH KYLE K	274-001298-00	0.32
608	PLACE TRACY J	274-001299-00	0.38
609	REAGER ANDREW T	274-001300-00	0.33
614	DATTANT JATIN	274-001301-00	0.31
611	SALCONE MICHAEL A JR	274-001302-00	0.31
612	STUDRAWA CYNTHIA M	274-001303-00	0.31
613	BLACK JOSEPH E	274-001304-00	0.31
614	SHAMSUDDIN ABDUL	274-001305-00	0.31



**OWNER/ DEVELOPER**  
 MC SHIER RINGS, LLC  
 999 POLARIS PARKWAY SUITE 200  
 COLUMBUS, OHIO 43240  
 CONTACT: MR. MICHAEL G. KING  
 PHONE: 614-785-0015  
 EMAIL: MKING@ROCKFORDHOMES.NET

**ENGINEER**  
 AMERICAN STRUCTUREPOINT  
 2550 CORPORATE EXCHANGE DRIVE, SUITE 300  
 COLUMBUS, OHIO 43231  
 CONTACT:  
 PHONE: 614-901-2235  
 EMAIL: @STRUCTUREPOINT.COM

**LANDSCAPE ARCHITECT**  
 POD DESIGN  
 100 NORTHWOOD BLVD, SUITE A  
 COLUMBUS, OHIO 43235  
 CONTACT: TODD FOLEY  
 PHONE: (614) 360-3055  
 EMAIL: TFOLEY@PODDESIGN.NET

**BASIS OF BEARING**  
 BEARINGS DESCRIBED HEREON ARE BASED ON NORTH 84 DEGREES 26 MINUTES 31 SECONDS EAST, THE CENTERLINE OF RIGHT-OF-WAY FOR SHIER RINGS ROAD, MEASURED FROM GRID NORTH, REFERENCED TO THE OHIO STATE PLANE COORDINATE SYSTEM (SOUTH ZONE) AND THE NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT), AS ESTABLISHED UTILIZING A GPS SURVEY AND AN NGS OPUS SOLUTION.

**ELEVATION DATUM**  
 ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, AS ESTABLISHED UTILIZING A LEVEL CIRCUIT ORIGINATING ON V12 "RESET" (CP 1003).

**BENCHMARKS**  
 CP1003  
 V12 "RESET". BRASS SISK SET IN THE TOP OF A CONCRETE MONUMENT ON THE WEST SIDE OF COSGRAY ROAD, 0.48 MILES SOUTH OF SHIER-RINGS ROAD, 550 FEET NORTH OF THE CENTER OF THE SOUTH DRIVE TO RESIDENCE #5713, 27.5 FEET WEST OF ROAD MONUMENT FCGS 2210, 3 FEET EAST OF FENCE LINE, 2 FEET EAST OF A WITNESS POST, 1 INCH BELOW THE GROUND.

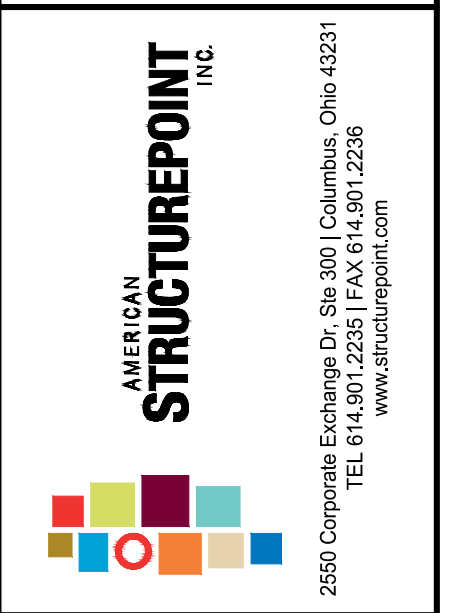
ELEVATION = 944.56

**TBM 100**  
 "X" ON WEST ARROW BOLT OF 3RD FIRE HYDRANT SOUTH OF RAB, EAST SIDE OF COSGRAY

ELEVATION = 944.88

**TBM 101**  
 "X" ON FIRE HYDRANT BOLT ON WEST SIDE OF FIRE HYDRANT AT SOUTHEAST CORNER OF RAB.

ELEVATION = 947.48



PUBLIC STREET, STORM, AND WATER IMPROVEMENTS  
 FOR  
**AYRSHIRE FARMS**  
 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
**TITLE SHEET**

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	07/30/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

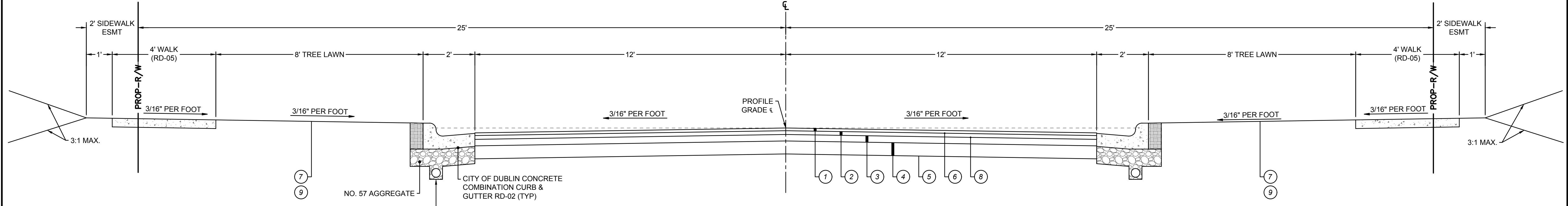
**C001**



PLOT SCALE: 1" = 750.0' - 8:29 AM - EDITED BY: IDN - DRAWING FILE: C:\2019\0745.D - DRAWINGS\CIVIL\CONSTRUCTION\DOCUMENTS\STREET, STORM, & WATER\019.0745.CE.TS.GN.DWG







**A** TYPICAL 28' B/B PUBLIC STREET SECTION (30 MPH DESIGN SPEED)  
 PER DUBLIN STANDARD DRAWING RD-01  
 NOT TO SCALE

SECTION KEY	
1	ITEM 441. 1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG-64-22
2	ITEM 441. 1-3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), PG-64-22
3	ITEM 301, 3" ASPHALT CONCRETE BASE
4	ITEM 304, 6" AGGREGATE BASE
5	ITEM 204, SUBGRADE COMPACTION
6	ITEM 407, NON-TRACKING TACK COAT @ 0.075 GAL/SY
7	ITEM 659, SEEDING AND MULCHING, CLASS 1
8	ITEM 407, NON-TRACKING TACK COAT @ 0.10 GAL/SY
9	ITEM 653, 3" TOPSOIL FURNISHED AND PLACED

STATION DATA		
NAME	BEGIN STA	END STA
LOCKROY DR	STA: 0+32.89	STA: 4+31.36
DORNELL CT	STA: 0+76.66	STA: 4+34.81
DRUMMORE CT	STA: 5+12.81	STA: 8+05.14



**ESTIMATE OF QUANTITIES**  
 THESE QUANTITIES HAVE BEEN PROVIDED ONLY AS AN ESTIMATE TO THE SCOPE OF THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO EVALUATE THE COMPLETE PROJECT AS DETAILED IN THE NOTES, PLANS, AND SPECIFICATIONS AND PROCEDURES NECESSARY FOR THE COMPLETION OF THE PLAN IMPROVEMENTS AND SUBMIT HIS TOTAL PROJECT COST ACCORDINGLY.

DEMOLITION			
ITEM	QUANTITY	UNIT	DESCRIPTION
201	LUMP	SUM	CLEARING AND GRUBBING
202	14	EA	REMOVE TREE
202	1	EA	REMOVE TREE STUMP
202	20	SY	DRIVE REMOVED
202	10	LF	FENCE REMOVED
202	1	EA	CHICKEN COOP REMOVED
SITE			
203	5,231	CY	EXCAVATION
203	73,041	CY	EMBANKMENT
204	5,158	SY	SUBGRADE COMPACTION
207	24	CY	STABILIZED CONSTRUCTION ENTRANCE
207	1	EACH	DESIGNATED CONCRETE WASHOUT AREA
207	33	EACH	INLET PROTECTION
207	2,860	LF	PERIMETER FILTER FABRIC FENCE
301	387	CY	3" ASPHALT CONCRETE BASE
304	773	CY	6" AGGREGATE BASE
407	812	GAL	TACK COAT
441	161	CY	1.25" ASPHALT CONCRETE SURFACE COURSE
441	226	CY	1.75" ASPHALT CONCRETE INTERMEDIATE COURSE
608	4,668	SF	4" CONCRETE WALK
608	9,218	SF	4" CONCRETE WALK (BY HOMEBUILDER)
608	4	EACH	TYPE "A" CURB RAMP
608	1	EACH	DRIVE APPROACH
609	2,970	LF	COMBINATION CURB AND GUTTER
630	4	EACH	STREET SIGN (RD-10)
630	1	EACH	STOP SIGN (RD-10)
659	44,305	SY	SEEDING AND MULCHING
STORM			
601		CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER
604	9	EACH	48" TYPE "C" MANHOLE (AA-S102) W/ CITY OF DUBLIN LID (ST-03)
604	9	EACH	CURB & GUTTER INLET (AA-S125A) W/ GRATE (ST-04)
604	15	EACH	2'X2' CB (AA-S139) W/ GRATE (ST-04)
604	2	EACH	3'X3' CB (AA-S139) W/ GRATE (ST-04)
604	2	EACH	3'X3' CB (AA-S133B) W/ GRATE (ST-04) (OUTLET STRUCTURE)
604	9	EACH	PRECAST HEADWALL (AA-S168)
901	394	LF	12" STORM PIPE, WITH ITEM 911 BACKFILL
901	482	LF	12" STORM PIPE, WITH ITEM 912 BACKFILL
901	1228	LF	15" STORM PIPE, WITH ITEM 911 BACKFILL
901	692	LF	15" STORM PIPE, WITH ITEM 912 BACKFILL
901	861	LF	18" STORM PIPE, WITH ITEM 911 BACKFILL
901	58	LF	18" STORM PIPE, WITH ITEM 912 BACKFILL
901	279	LF	24" STORM PIPE, WITH ITEM 912 BACKFILL
901	242	LF	24" STORM PIPE, WITH ITEM 911 BACKFILL
WATER			
801	12	LF	6 INCH WATER PIPE AND FITTINGS
801	1,422	LF	8 INCH WATER PIPE AND FITTINGS
802	5	EACH	8" X 6" TEE
802	4	EACH	8" VALVE AND APPURTENANCES
802	5	EACH	6" VALVE AND APPURTENANCES
805	30	EACH	3/4" CURB STOP
805	11	EACH	3/4" WATER TAP (SHORT)
805	19	EACH	3/4" WATER TAP (LONG)
809	6	EACH	FIRE HYDRANT TYPE B (COMPLETE)
SPEC	1	SUM	SURVEY COORDINATES
SPEC	1	EACH	FORD BOX AND METER RELOCATION

WATER COORDINATE TABLE LOCKROY DR				
WATER FEATURE	STATION	OFFSET	AS-BUILT NORTHING	AS-BUILT EASTING
CONNECT TO WATER MAIN	0+11.58	17.50 R		
10.25° HORZ BEND	0+76.40	17.89 R		
10.50° HORZ BEND	1+79.15	16.36 R		
3/4" WATER SERVICE (SHORT)(23)	2+16.45	21.00 R		
3/4" WATER SERVICE (SHORT)(24)	2+78.45	21.00 R		
FIRE HYDRANT TYPE "B"	3+03.62	21.15 R		
8" TEE (FOR FH)	3+03.62	17.50 R		
3/4" WATER SERVICE (SHORT)(25)	3+40.45	21.00 R		
3/4" WATER SERVICE (SHORT)(26)	4+02.46	21.00 R		
8"x8"x8" TEE	4+52.86	17.50 R		

WATER COORDINATE TABLE DORNELL CT & DRUMMORE CT				
WATER FEATURE	STATION	OFFSET	AS-BUILT NORTHING	AS-BUILT EASTING
3/4" WATER SERVICE (SHORT)(30)	-0+14.35	44.75 L		
3/4" WATER SERVICE (LONG)(1)	-0+37.27	28.63 R		
FIRE HYDRANT TYPE "B"	-0+41.72	17.52 L		
3/4" WATER SERVICE (SHORT)(29)	0+24.09	40.36 L		
3/4" WATER SERVICE (LONG)(2)	0+38.53	30.81 R		
FIRE HYDRANT TYPE "B"	0+53.37	19.29 L		
8" TEE FOR FH	0+53.37	17.50 L		
3/4" WATER SERVICE (SHORT)(28)	0+86.17	21.00 L		
3/4" WATER SERVICE (LONG)(3)	1+00.38	21.00 R		
3/4" WATER SERVICE (SHORT)(27)	1+51.21	21.00 L		
3/4" WATER SERVICE (LONG)(4)	1+57.06	21.00 R		
3/4" WATER SERVICE (LONG)(5)	1+90.82	21.00 R		
3/4" WATER SERVICE (LONG)(6)	2+33.87	21.00 R		
3/4" WATER SERVICE (LONG)(7)	2+75.63	21.00 R		
3/4" WATER SERVICE (LONG)(8)	3+33.36	21.00 R		
FIRE HYDRANT TYPE "B"	3+81.57	15.98 L		
8" TEE FOR FH	3+81.60	17.50 L		
3/4" WATER SERVICE (LONG)(9)	3+95.36	21.00 R		
8"x8"x8" TEE	4+56.31	17.50 L		

WATER COORDINATE TABLE DORNELL CT & DRUMMORE CT				
WATER FEATURE	STATION	OFFSET	AS-BUILT NORTHING	AS-BUILT EASTING
3/4" WATER SERVICE (LONG)(10)	4+57.36	21.00 R		
3/4" WATER SERVICE (LONG)(11)	5+19.36	21.00 R		
3/4" WATER SERVICE (SHORT)(22)	5+56.21	21.00 L		
3/4" WATER SERVICE (LONG)(12)	5+81.36	21.00 R		
3/4" WATER SERVICE (SHORT)(21)	6+33.36	21.00 L		
3/4" WATER SERVICE (LONG)(13)	6+43.36	21.00 R		
8" TEE FOR FH	6+86.03	17.50 L		
FIRE HYDRANT TYPE "B"	6+86.05	15.97 L		
3/4" WATER SERVICE (SHORT)(20)	6+91.03	21.00 L		
3/4" WATER SERVICE (LONG)(14)	7+35.33	21.00 R		
3/4" WATER SERVICE (SHORT)(19)	7+41.27	21.00 L		
3/4" WATER SERVICE (LONG)(15)	7+75.79	21.00 R		
3/4" WATER SERVICE (SHORT)(18)	8+13.98	21.32 L		
3/4" WATER SERVICE (LONG)(17)	9+10.68	46.99 L		
8" TEE FOR FH	9+39.76	29.93 R		
FIRE HYDRANT TYPE "B"	9+41.30	27.65 R		
8" CAP & THRUST BLOCK	9+50.26	39.70 R		
3/4" WATER SERVICE (SHORT)(16)	9+55.22	13.62 R		

2550 Corporate Exchange Dr., Ste 300 | Columbus, Ohio 43231  
 TEL: 614.226.1226  
 www.structurepoint.com

PUBLIC STREET, STORM, AND WATER IMPROVEMENTS  
 FOR  
**AYRSHIRE FARMS**  
 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
**TYPICAL SECTIONS & WATER COORDINATE TABLES**

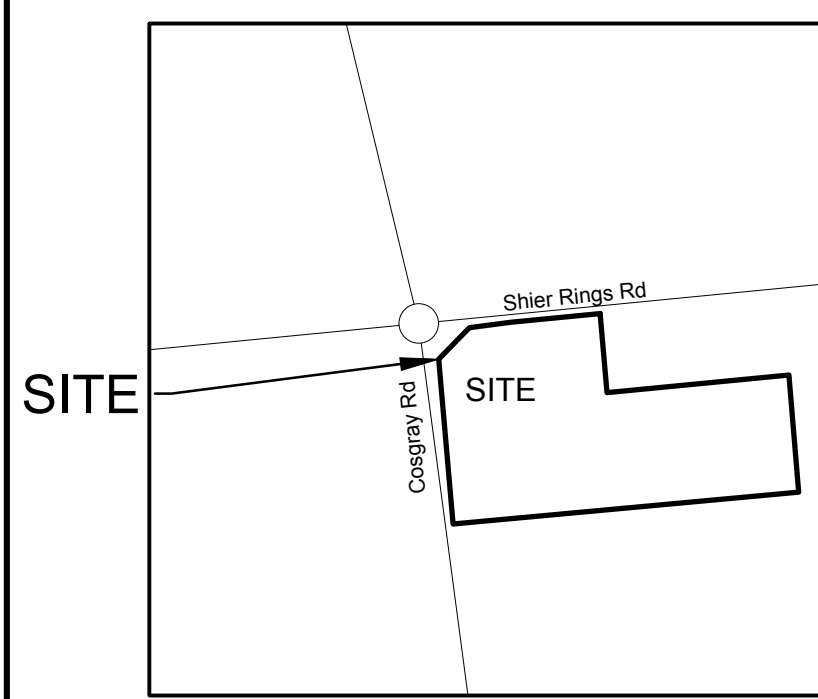
REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE: 07/30/2021  
 DRAWN BY: ALH  
 CHECKED BY: JRP  
 JOB NUMBER: 2019.01745

C003

PLOT SCALE: 1" = 20' DATE: 7/30/21 - 9:29 AM EDITED BY: IDN DRAWING FILE: C:\20\1901745.D DRAWINGS\CIVIL\CONSTRUCTION\DOCUMENTS\STREET, STORM, & WATER\2019\01745.CE.TS.GN.DWG

CALCULATED BY: BAJ DATE: 06/29/2021 CHECKED BY: JRP 06/29/2021

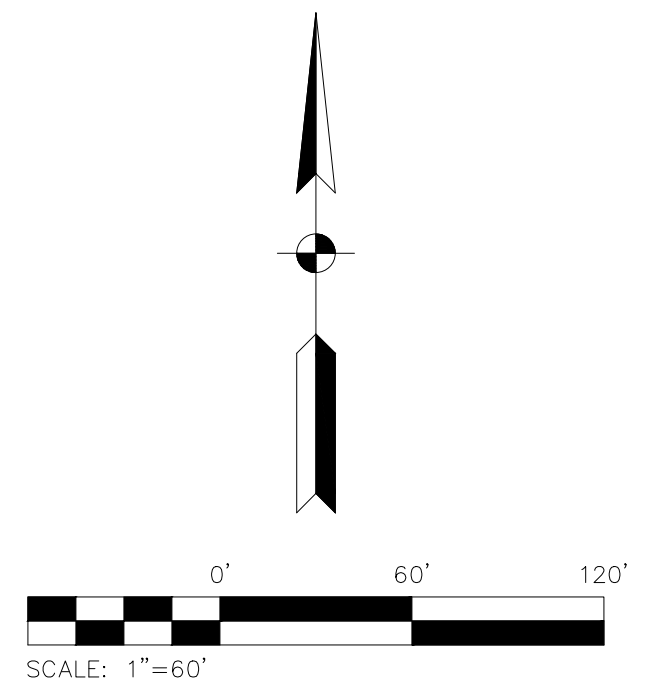


**GENERAL PROPERTY INFORMATION**  
 Owners of Record: MC Shier Rings LLC  
 Current Tax PIDs: 274-012321  
 Current Tax District: City of Dublin-Wash TWP-Hilliard  
 Current Deed Reference: I.N. 201808140109233, 201808140109232, 201907090083345 & 201907090083346  
 Current Site Address: Shier Rings Rd & Cosgray Road

# ALTA/NSPS LAND TITLE SURVEY

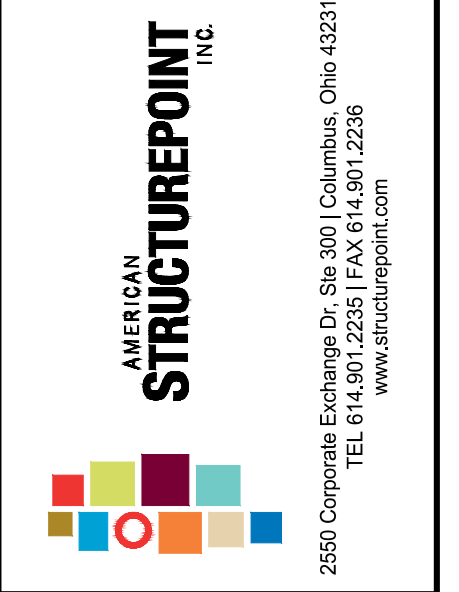
## STATE OF OHIO, COUNTY OF FRANKLIN, TOWNSHIP OF WASHINGTON

### VIRGINIA MILITARY SURVEY NO. 6953



- LEGEND**
- Bush
  - Curb Inlet
  - Drainage Inlet Round
  - Drainage Inlet Square
  - Electric Box
  - Electric Meter
  - Electric Transformer
  - Fire Hydrant
  - Gas Marker
  - Government Control Point Found
  - Guy Wire
  - I.P.F. Iron Pin & Cap Found
  - I.P.F. Iron Pin Found
  - I.P.S. Iron Pin Set
  - Light Pole
  - M.N.F. Mag Nail Found
  - Monument Box Found
  - Pine Tree
  - Post
  - Power & Light Pole
  - Power & Telephone Pole
  - Railroad Spike Found
  - Rock
  - Sanitary Manhole
  - Sign
  - Storm Manhole
  - Stump
  - Telephone Light Pole
  - Telephone Pole
  - Tree
  - Water Valve
  - Water Well Drilled

PLOT SCALE: 1"=60' DATE: 6/15/21 2:26 PM EDITED BY: BLUJHNSON DRAWING: CIVIL CONSTRUCTION DOCUMENT SYSTEM - STROM, & WATER/2019.07/145.CE.SV.DWG



PUBLIC STREET, STORM, AND WATER IMPROVEMENTS FOR AYRSHIRE FARMS CITY OF DUBLIN, FRANKLIN COUNTY, OHIO EXISTING CONDITIONS SURVEY

REVISIONS	DATE	SHEET NO.	DESCRIPTION

To: Chicago Title Insurance Company; First American Title Insurance Company; Title First Agency, LLC; MC Shier Rings, LLC; and all of their respective successors and/or assigns as their interests may appear.

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes items 1, 2, 3, 4, 6(a), 6(b), 7(a), 7(b)(1), 7(c), 8, 9, 11(a), 11(b), 13, 14, 16, 17, 18 and 19 of Table A thereof. The original field work was completed on April 22, 2021 (date of latest field activity).

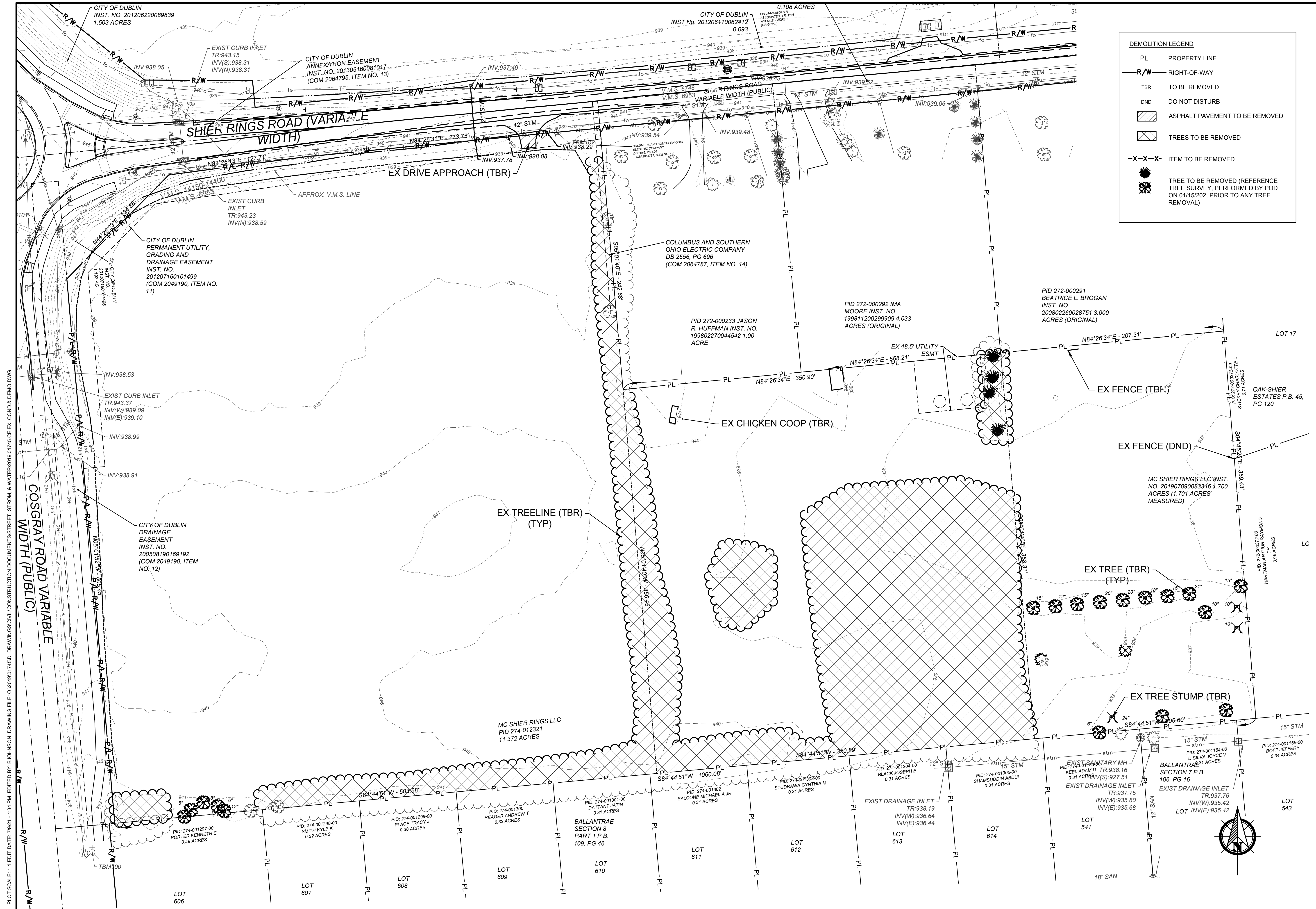
Date of Plat or Map: May 19, 2021  
 This document is not valid unless imprinted with a land surveyor's seal.

**BASIS OF BEARINGS**  
 Bearings described hereon are based on North 84 degrees 26 minutes 31 seconds East, the centerline of right-of-way for Shier Rings Road, measured from Grid North, referenced to the Ohio State Plane Coordinate System (South Zone) and the North American Datum of 1983 (2011 Adjustment), as established utilizing a GPS survey and an NGS OPUS solution.

Brian P. Bingham  
 Professional Land Surveyor 8438

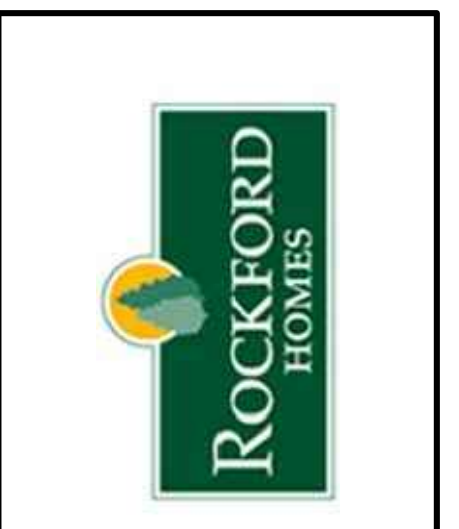
DATE:	07/30/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

S001



**DEMOLITION LEGEND**

- PL — PROPERTY LINE
- R/W — RIGHT-OF-WAY
- TBR — TO BE REMOVED
- DND — DO NOT DISTURB
- [Hatched Box] — ASPHALT PAVEMENT TO BE REMOVED
- [Cross-hatched Box] — TREES TO BE REMOVED
- X-X- — ITEM TO BE REMOVED
- [Tree Symbol] — TREE TO BE REMOVED (REFERENCE TREE SURVEY, PERFORMED BY POD ON 01/15/202, PRIOR TO ANY TREE REMOVAL)



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PUBLIC STREET, STORM, AND WATER IMPROVEMENTS  
 FOR  
**AYSHIRE FARMS**  
 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
**DEMOLITION PLAN**

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	07/30/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

**C100**

PLOT SCALE: 1"=134.4' DATE: 7/29/21 1:34 PM EDITED BY: BOBINSON DRAWING FILE: 0.201901745.D DRAWINGS\CIVIL\CONSTRUCTION\DOCUMENTS\STREET, STORM, & WATER\2019.01745.CE EX. COND. & DEMO.DWG

**SITE DATA**

**ZONING:**

PROPERTY OWNER: MC SHIER RINGS LLC  
 PARCEL ID: 274-012321  
 PROPOSED USE: RESIDENTIAL DEVELOPMENT

**SITE ACREAGE:**

TOTAL: 11.372 AC  
 PROP RIGHT-OF-WAY: 1.825 AC  
 RESERVE AREAS: 0.780 AC

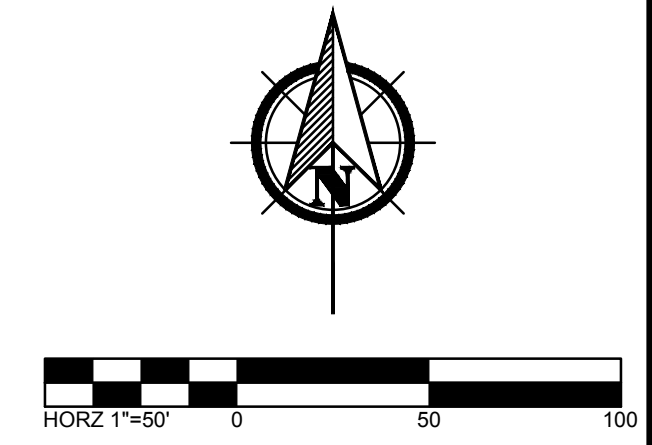
**ZONING: PUD**

FEMA FLOODPLAIN: ZONE X  
 FEMA FIRM PANEL No.: 39049C0133K

**NUMBER OF UNITS 30**

**SITE LEGEND**

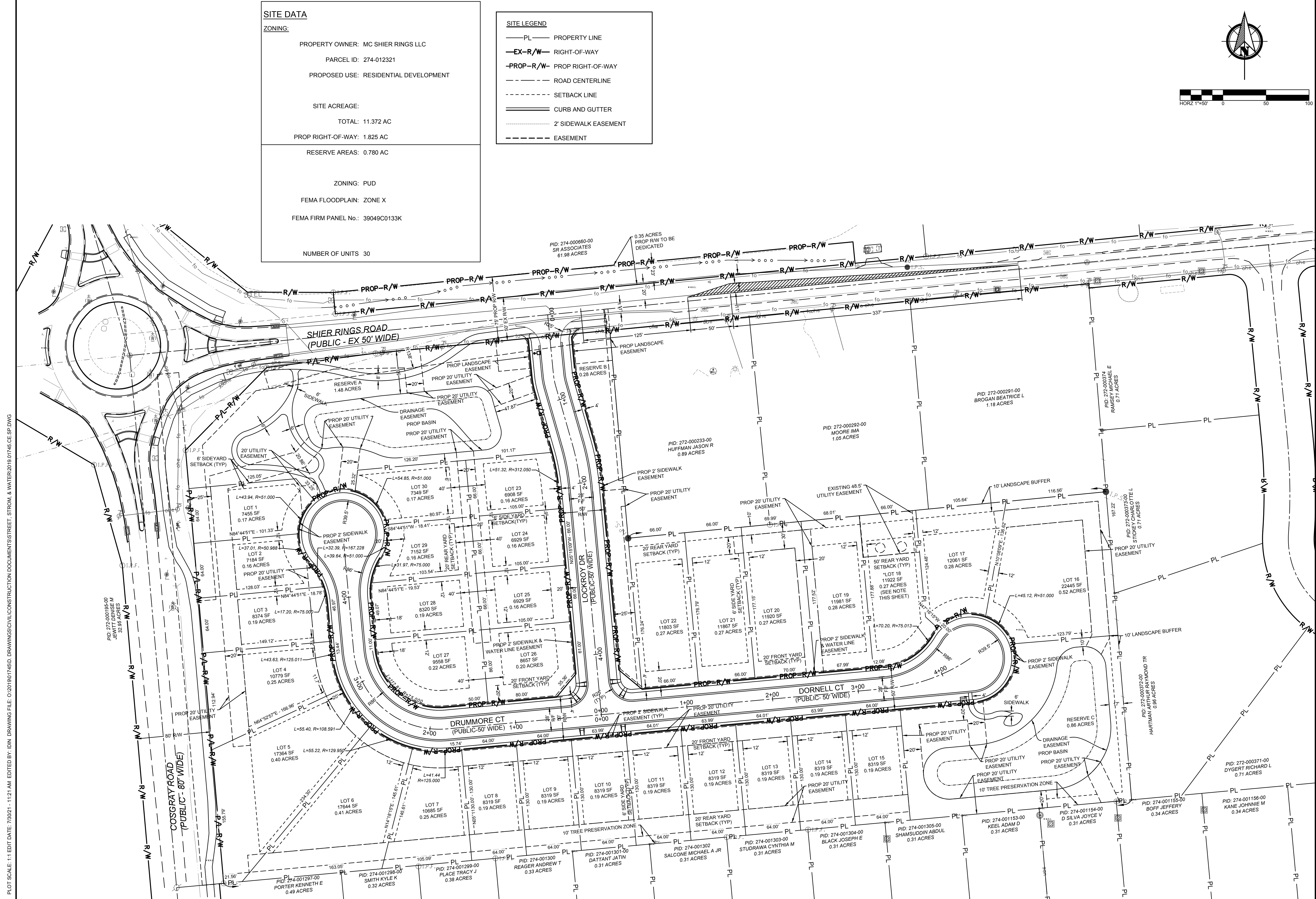
- PL — PROPERTY LINE
- EX-R/W — RIGHT-OF-WAY
- PROP-R/W — PROP RIGHT-OF-WAY
- — ROAD CENTERLINE
- - - - SETBACK LINE
- ==== CURB AND GUTTER
- ..... 2' SIDEWALK EASEMENT
- - - - EASEMENT



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PUBLIC STREET, STORM, AND WATER IMPROVEMENTS  
**AYRSHIRE FARMS**  
 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
**STAKING PLAN**



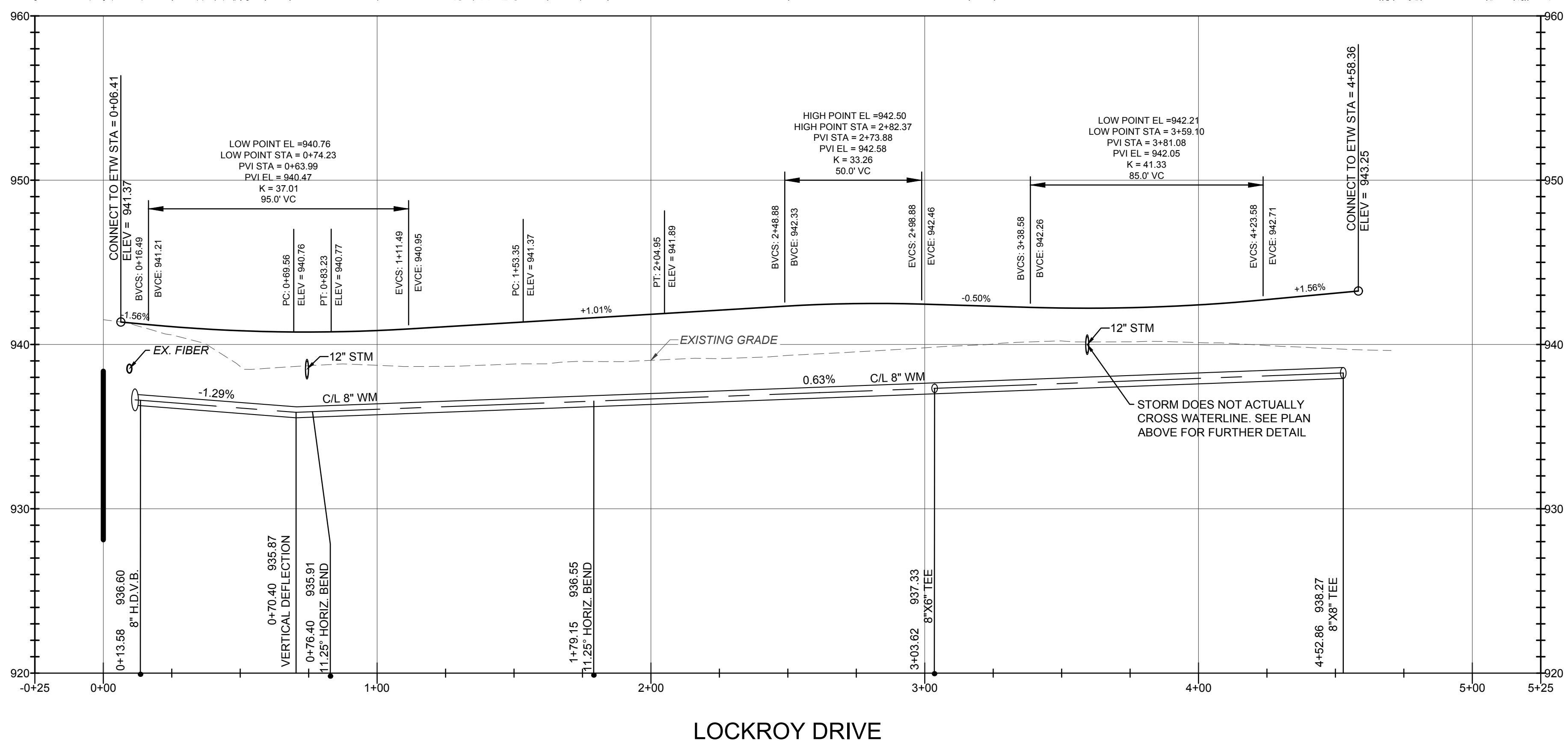
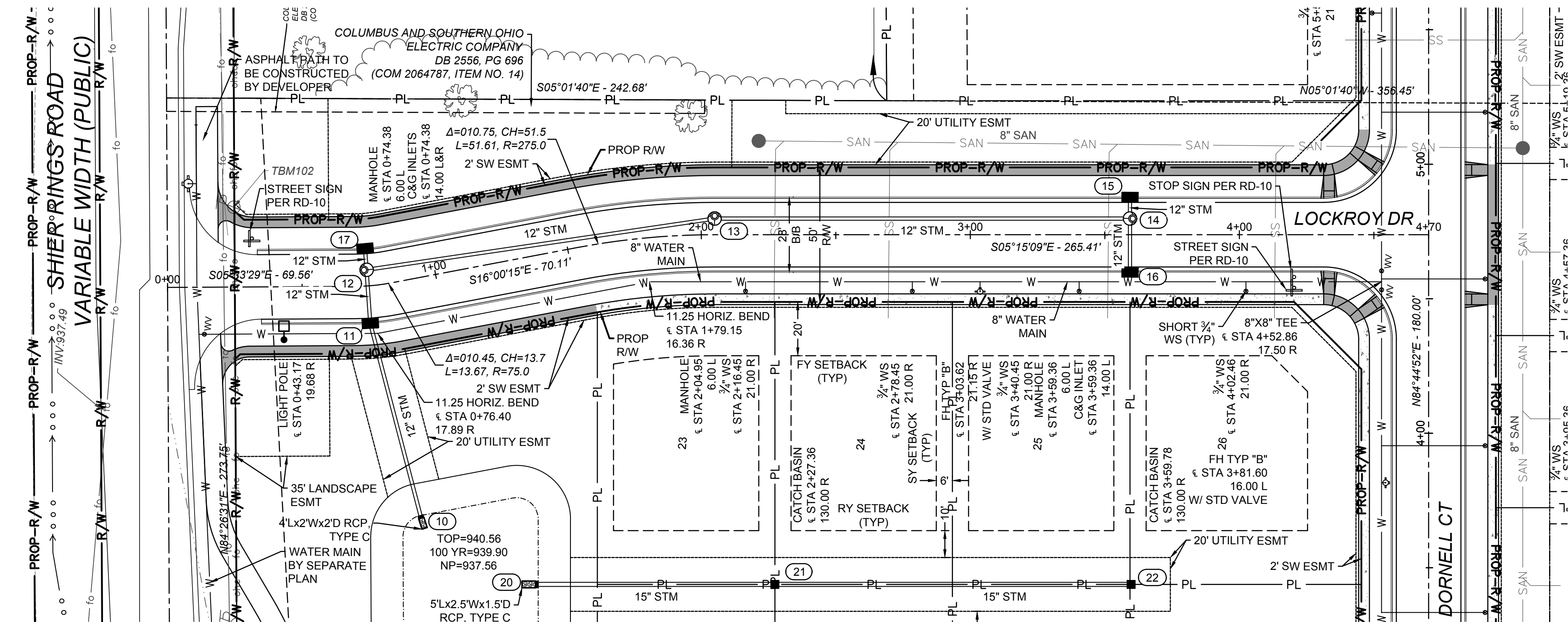
REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE: 07/30/2021  
 DRAWN BY: ALH  
 CHECKED BY: JRP  
 JOB NUMBER: 2019.01745

**C200**

PLOT SCALE: 1"=112.00' DATE: 7/30/21 - 11:21 AM EDITED BY: IDIN DRAWING FILE: 0:201901745.D DRAWING CIVIL CONSTRUCTION DOCUMENTS\STREET, STORM, & WATER\2019.01745.CE.SP.DWG

PLOT SCALE: 1:1 EDIT DATE: 7/30/21 - 8:29 AM EDITED BY: IDN DRAWING FILE: C:\2019\01745D DRAWINGS\CIVIL\CONSTRUCTION\DOCUMENTS\STREET, STORM, & WATER\2019\01745D.CE.P&P.DWG



**HATCH LEGEND**

	CONCRETE SIDEWALK PER CITY OF DUBLIN STANDARD CONSTRUCTION DRAWING RD-05 TO BE CONSTRUCTED BY DEVELOPER AT TIME OF STREET CONSTRUCTION
	CONCRETE SIDEWALK PER CITY OF DUBLIN STANDARD CONSTRUCTION DRAWING RD-05 TO BE CONSTRUCTED BY HOMEOWNER

**SITE LEGEND**

	PROPERTY LINE
	RIGHT-OF-WAY
	SETBACK
	EASEMENT
	CENTERLINE
	CURB AND GUTTER
	PUBLIC WATER MAIN
	WATER SERVICE
	PUBLIC STORM SEWER (FOR REFERENCE ONLY)
	SANITARY SEWER (FOR REFERENCE ONLY)
	SANITARY LATER (FOR REFERENCE ONLY)

**NOTE:**

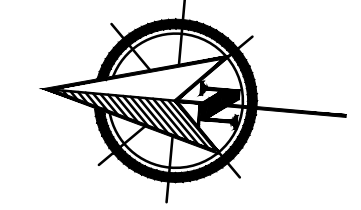
FOR INTERSECTION DETAILS, SEE SHEET C400

FOR CUL-DE-SAC DETAILS, SEE SHEET C400-C401

PROVIDE 18" MINIMUM VERTICAL CLEARANCE (OUT-TO-OUT) AT ALL UTILITY CROSSINGS

REQUIRED SIGNS CAN BE MANUFACTURED BY THE CITY OF DUBLIN OR DEVELOPER. IF THE CITY OF DUBLIN FABRICATES AND INSTALLS THE REQUIRED SIGNS, CONTACT JOHN BABYAK AT (614) 410-4718 FOR COORDINATION AND PROVIDE A DETAILED SIGN PLAN TO THE CITY. IF THE DEVELOPER FABRICATES AND INSTALLS THE REQUIRED SIGNS, THE CITY OF DUBLIN REQUIRES SHOP DRAWING APPROVALS PRIOR TO INSTALLATION OF SIGNS. STREET NAME SIGNS SHALL HAVE SQUARE POST IN ACCORDANCE WITH CITY OF DUBLIN STANDARD CONSTRUCTION DRAWING RD-10.

PROPOSED SANITARY SITE IMPROVEMENTS ARE SHOWN FOR REFERENCE ONLY. PLEASE REFER TO THE SEPARATE AYRSHIRE FARMS SANITARY IMPROVEMENT PLAN.



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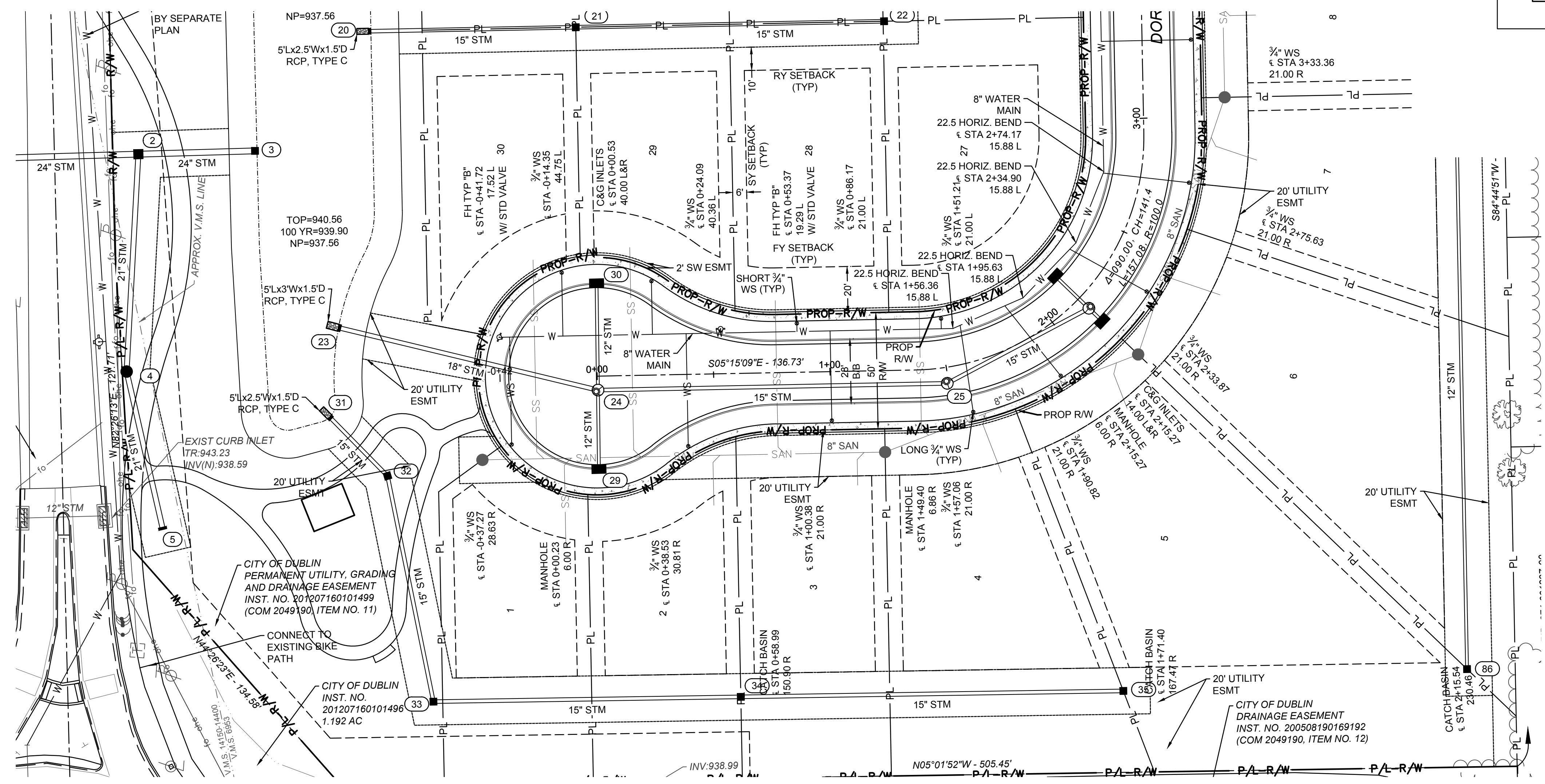
PUBLIC STREET, STORM, AND WATER IMPROVEMENTS  
FOR  
**AYRSHIRE FARMS**  
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
**PLAN & PROFILE**

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	07/30/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

**C300**

PLOT SCALE: 1"=110' DATE: 7/30/21 8:29 AM EDITED BY: IDN DRAWING FILE: C:\2019\101745D.DRAWINGS\CIVIL\CONSTRUCTION\DOCUMENTS\STREET, STORM, & WATER\2019\101745 CE P&P.DWG



**HATCH LEGEND**

[Hatch Pattern]	CONCRETE SIDEWALK PER CITY OF DUBLIN STANDARD CONSTRUCTION DRAWING RD-05 TO BE CONSTRUCTED BY DEVELOPER AT TIME OF STREET CONSTRUCTION
[Hatch Pattern]	CONCRETE SIDEWALK PER CITY OF DUBLIN STANDARD CONSTRUCTION DRAWING RD-05 TO BE CONSTRUCTED BY HOMEBUILDER

**SITE LEGEND**

— PL —	PROPERTY LINE
— R/W —	RIGHT-OF-WAY
- - - -	SETBACK
- - - -	EASEMENT
- - - -	CENTERLINE
=====	CURB AND GUTTER
— W —	PUBLIC WATER MAIN
— WS —	WATER SERVICE
— P —	PUBLIC STORM SEWER
— SAN —	PUBLIC SANITARY SEWER (FOR REFERENCE ONLY)
— SS —	SANITARY LATER (FOR REFERENCE ONLY)

**NOTE:**

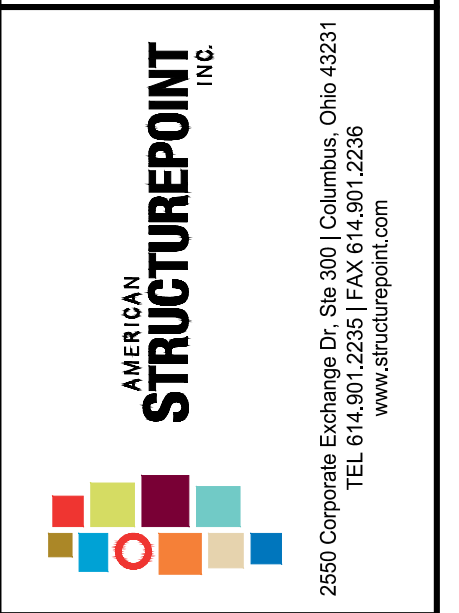
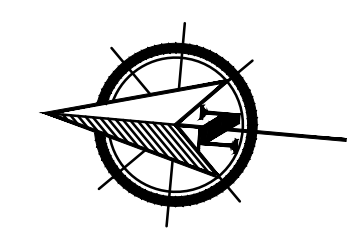
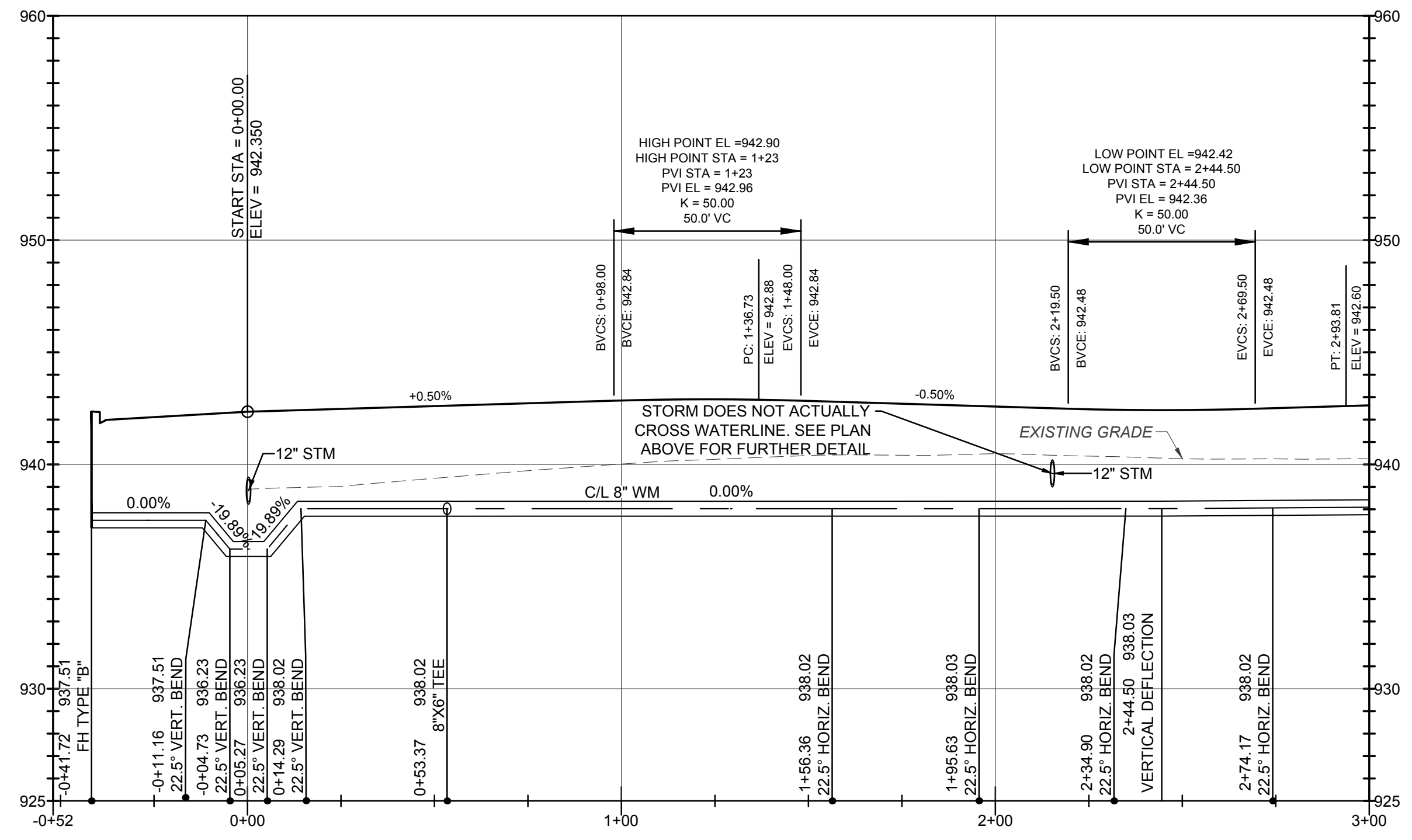
FOR INTERSECTION DETAILS, SEE SHEET C400

FOR CUL-DE-SAC DETAILS, SEE SHEET C400-C401

PROVIDE 18" MINIMUM VERTICAL CLEARANCE (OUT-TO-OUT) AT ALL UTILITY CROSSINGS

REQUIRED SIGNS CAN BE MANUFACTURED BY THE CITY OF DUBLIN OR DEVELOPER. IF THE CITY OF DUBLIN FABRICATES AND INSTALLS THE REQUIRED SIGNS, CONTACT JOHN BABYAK AT (614) 410-4718 FOR COORDINATION AND PROVIDE A DETAILED SIGN PLAN TO THE CITY. IF THE DEVELOPER FABRICATES AND INSTALLS THE REQUIRED SIGNS, THE CITY OF DUBLIN REQUIRES SHOP DRAWING APPROVALS PRIOR TO INSTALLATION OF SIGNS. STREET NAME SIGNS SHALL HAVE SQUARE POST IN ACCORDANCE WITH CITY OF DUBLIN STANDARD CONSTRUCTION DRAWING RD-10.

PROPOSED SANITARY SITE IMPROVEMENTS ARE SHOWN FOR REFERENCE ONLY. PLEASE REFER TO THE SEPARATE AYRSHIRE FARMS SANITARY IMPROVEMENT PLAN.



PUBLIC STREET, STORM, AND WATER IMPROVEMENTS  
**AYRSHIRE FARMS**  
 FOR  
 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
**PLAN & PROFILE**

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	07/30/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

**C301**

PLOT SCALE: 1"=100' DATE: 7/30/21 8:29 AM EDITED BY: IDN DRAWING FILE: C:\2019\101745D DRAWINGS\CIVIL\CONSTRUCTION\DOCUMENTS\STREET, STORM, & WATER\2019\101745.DWG

**HATCH LEGEND**

- CONCRETE SIDEWALK PER CITY OF DUBLIN STANDARD CONSTRUCTION DRAWING RD-05 TO BE CONSTRUCTED BY DEVELOPER AT TIME OF STREET CONSTRUCTION
- CONCRETE SIDEWALK PER CITY OF DUBLIN STANDARD CONSTRUCTION DRAWING RD-05 TO BE CONSTRUCTED BY HOMEBUILDER

**NOTE:**

FOR INTERSECTION DETAILS, SEE SHEET C400

FOR CUL-DE-SAC DETAILS, SEE SHEET C400-C401

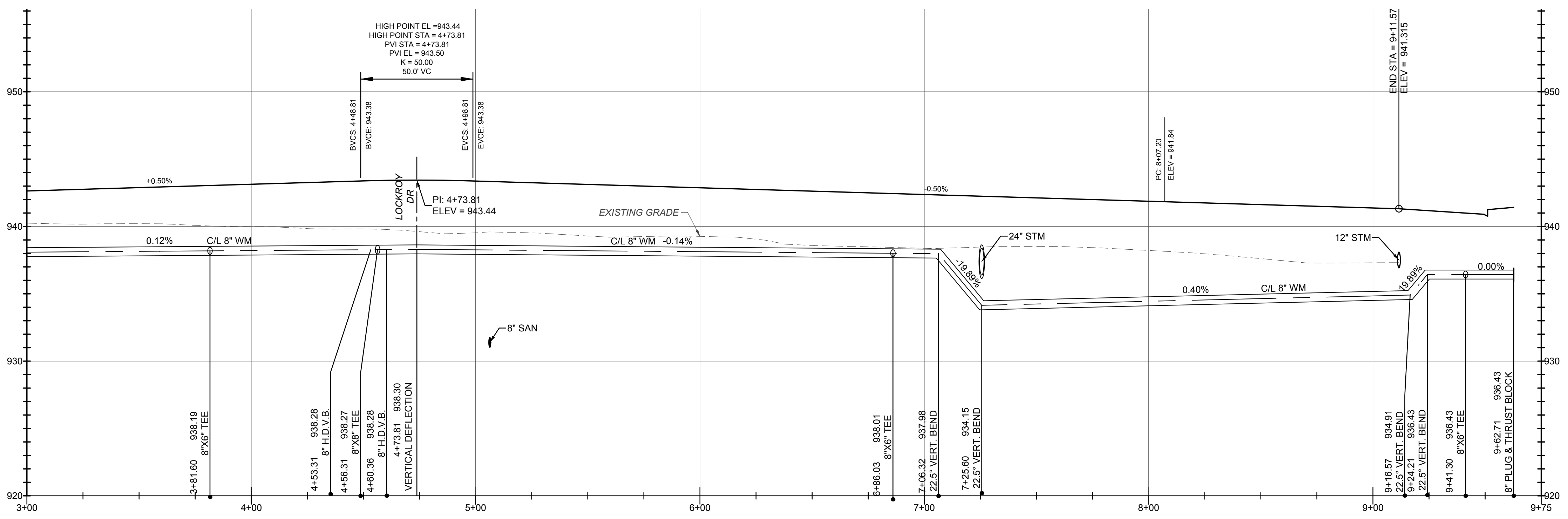
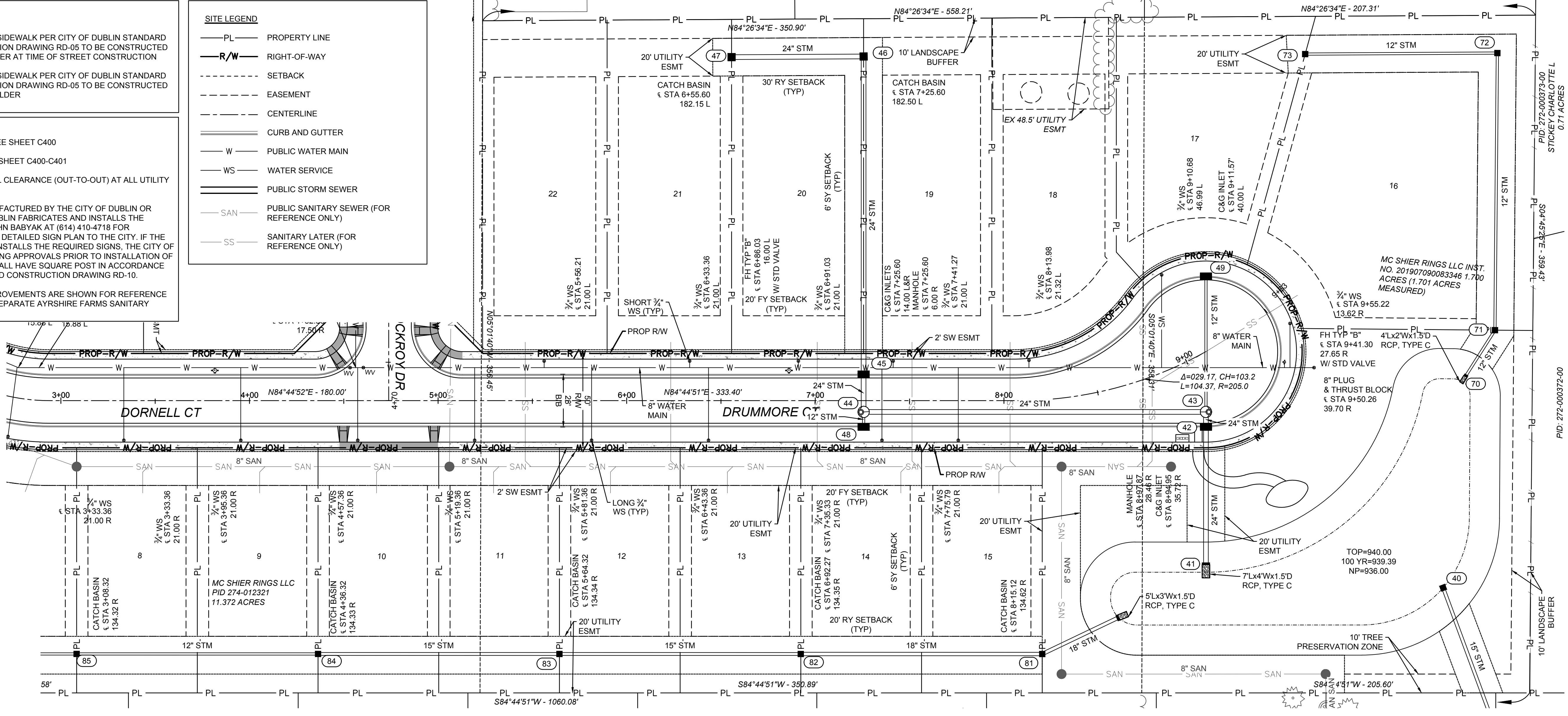
PROVIDE 18" MINIMUM VERTICAL CLEARANCE (OUT-TO-OUT) AT ALL UTILITY CROSSINGS

REQUIRED SIGNS CAN BE MANUFACTURED BY THE CITY OF DUBLIN OR DEVELOPER. IF THE CITY OF DUBLIN FABRICATES AND INSTALLS THE REQUIRED SIGNS, CONTACT JOHN BABYAK AT (614) 410-4718 FOR COORDINATION AND PROVIDE A DETAILED SIGN PLAN TO THE CITY. IF THE DEVELOPER FABRICATES AND INSTALLS THE REQUIRED SIGNS, THE CITY OF DUBLIN REQUIRES SHOP DRAWING APPROVALS PRIOR TO INSTALLATION OF SIGNS. STREET NAME SIGNS SHALL HAVE SQUARE POST IN ACCORDANCE WITH CITY OF DUBLIN STANDARD CONSTRUCTION DRAWING RD-10.

PROPOSED SANITARY SITE IMPROVEMENTS ARE SHOWN FOR REFERENCE ONLY. PLEASE REFER TO THE SEPARATE AYRSHIRE FARMS SANITARY IMPROVEMENT PLAN.

**SITE LEGEND**

- PL PROPERTY LINE
- R/W RIGHT-OF-WAY
- SETBACK
- EASEMENT
- CENTERLINE
- CURB AND GUTTER
- W PUBLIC WATER MAIN
- WS WATER SERVICE
- PUBLIC STORM SEWER
- SAN PUBLIC SANITARY SEWER (FOR REFERENCE ONLY)
- SS SANITARY LATER (FOR REFERENCE ONLY)



North Arrow

Scale: 1"=30'

ROAD 2 STA 3+00-9+25

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PUBLIC STREET, STORM, AND WATER IMPROVEMENTS

FOR

**AYRSHIRE FARMS**

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

**PLAN & PROFILE**

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE: 07/30/2021

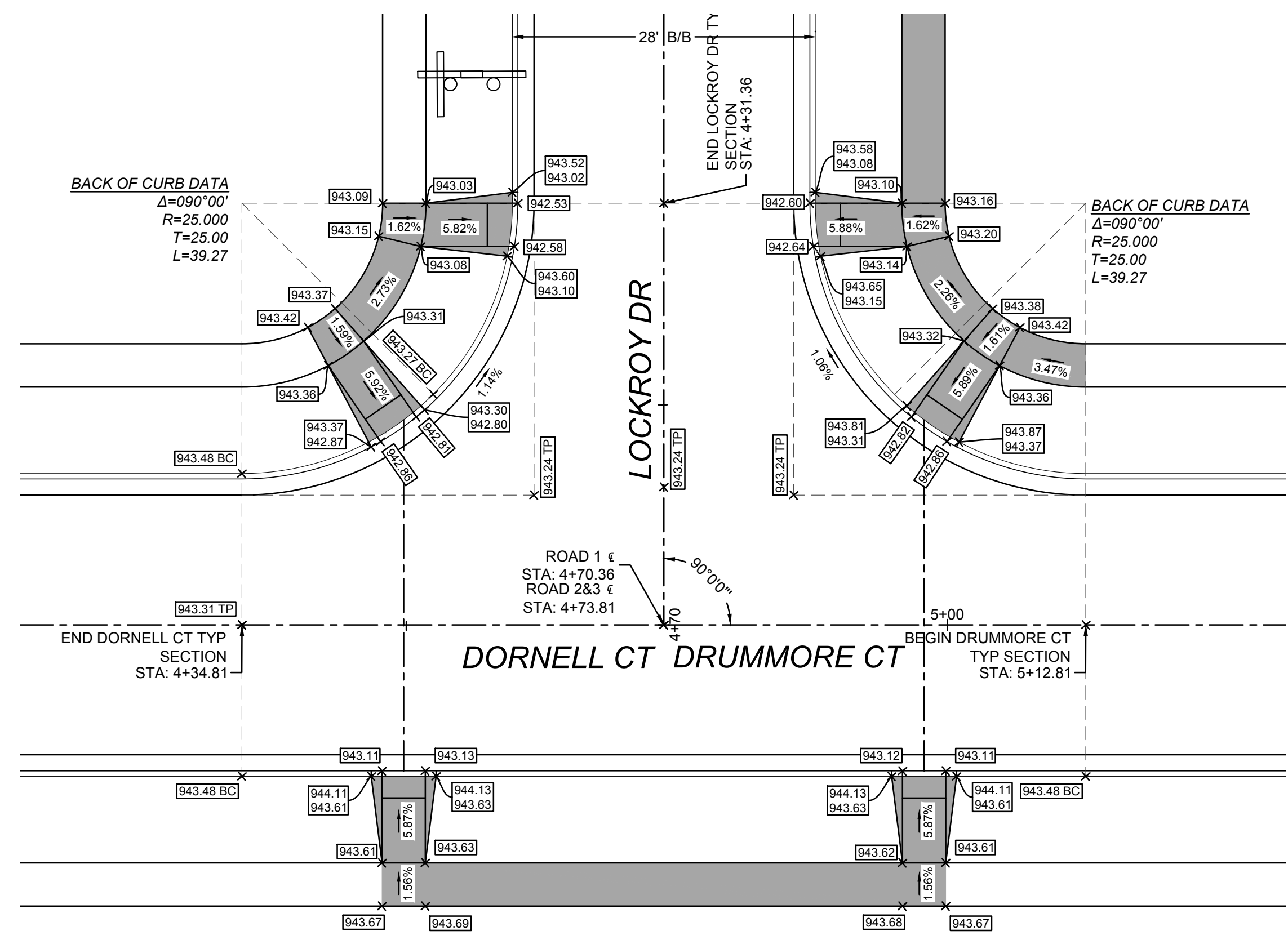
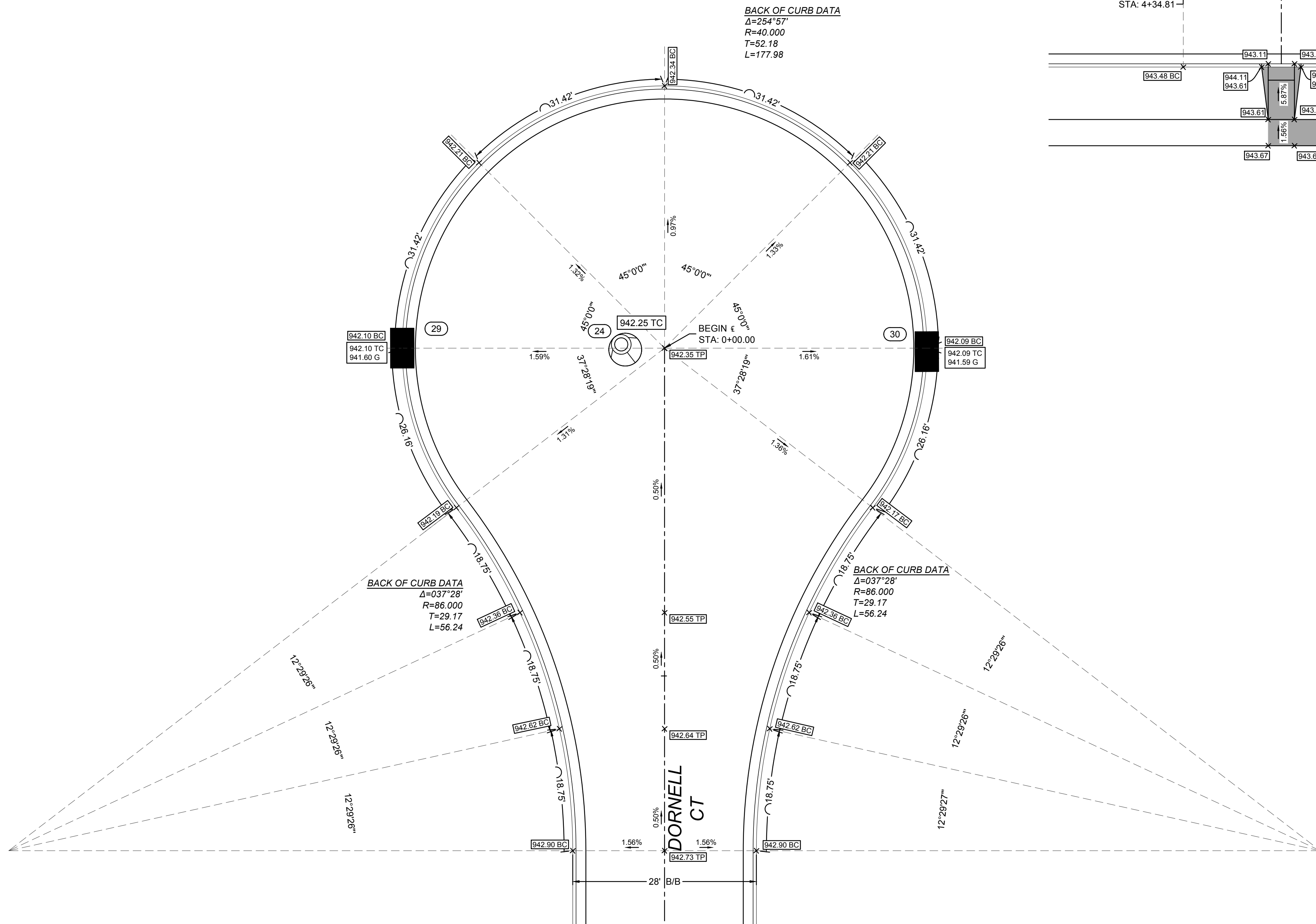
DRAWN BY: ALH

CHECKED BY: JRP

JOB NUMBER: 2019.01745

C302

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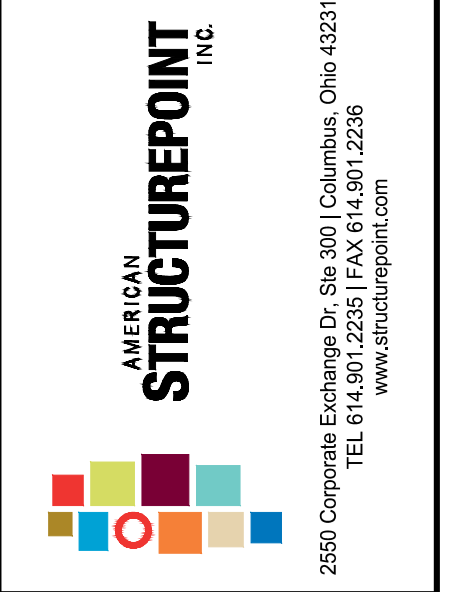
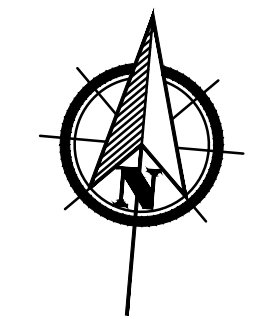


**HATCH LEGEND**

	CONCRETE SIDEWALK PER CITY OF DUBLIN STANDARD CONSTRUCTION DRAWING RD-05 TO BE CONSTRUCTED BY DEVELOPER AT TIME OF STREET CONSTRUCTION
--	--

**GRADING LEGEND**

	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	FINISHED FLOOR ELEVATION
	SPOT ELEVATION
	TOP OF CASTING ELEVATION
	HIGH POINT ELEVATION
	MATCH EXISTING ELEVATION
	TOP OF CURB ELEVATION
	BOTTOM OF CURB ELEVATION
	TOP OF WALL ELEVATION
	BOTTOM OF WALL ELEVATION
	SLOPE ARROWS
	FLOW ARROW
	FLOOD ROUTE
	NORMAL POOL
	SWALE
	ATG ADJUST TO GRADE



PUBLIC STREET, STORM, AND WATER IMPROVEMENTS  
 FOR  
**AYRSHIRE FARMS**  
 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
**INTERSECTION DETAILS**

REVISIONS	DATE	SHEET NO.	DESCRIPTION

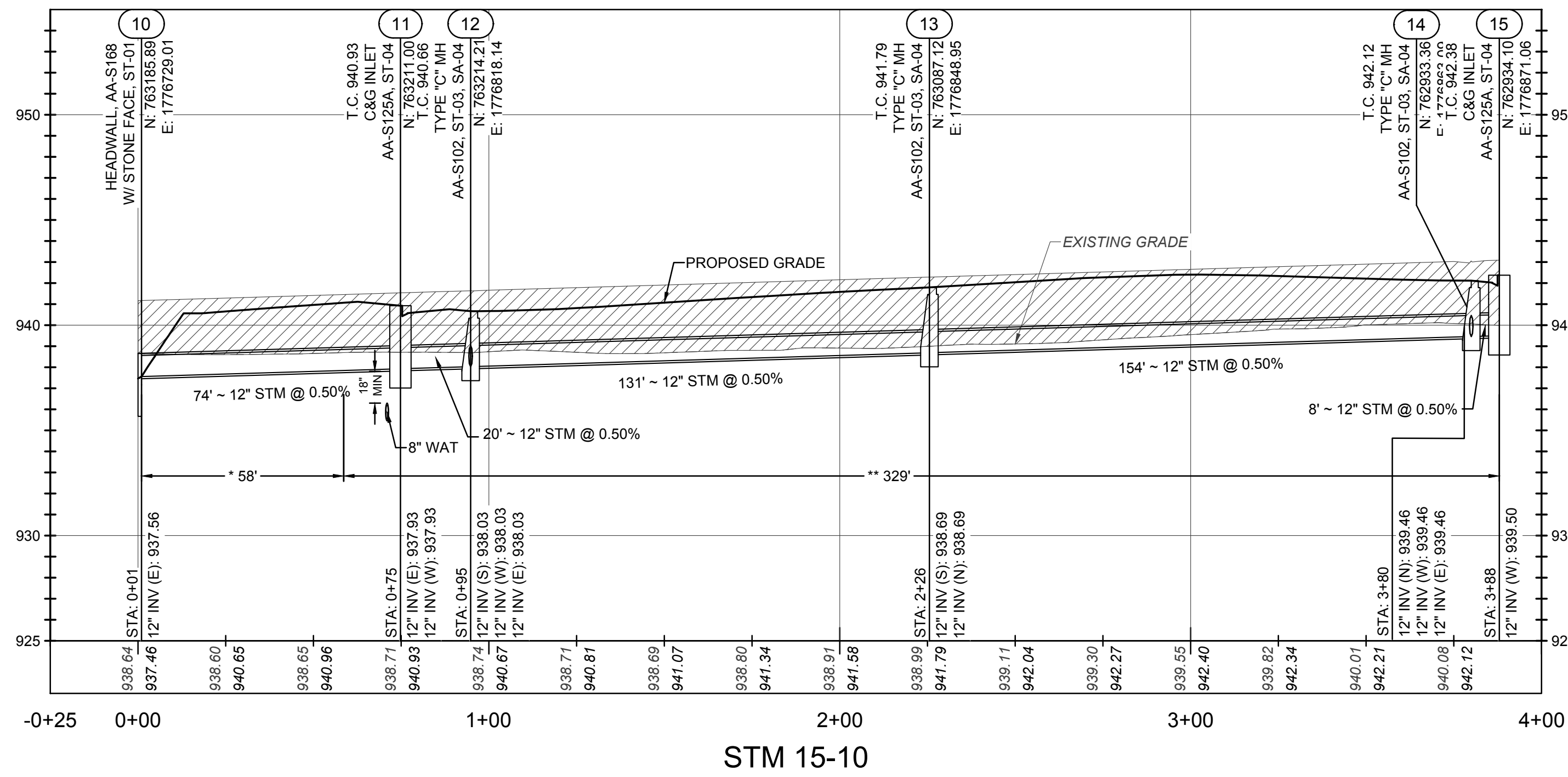
DATE:	07/30/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

**C400**

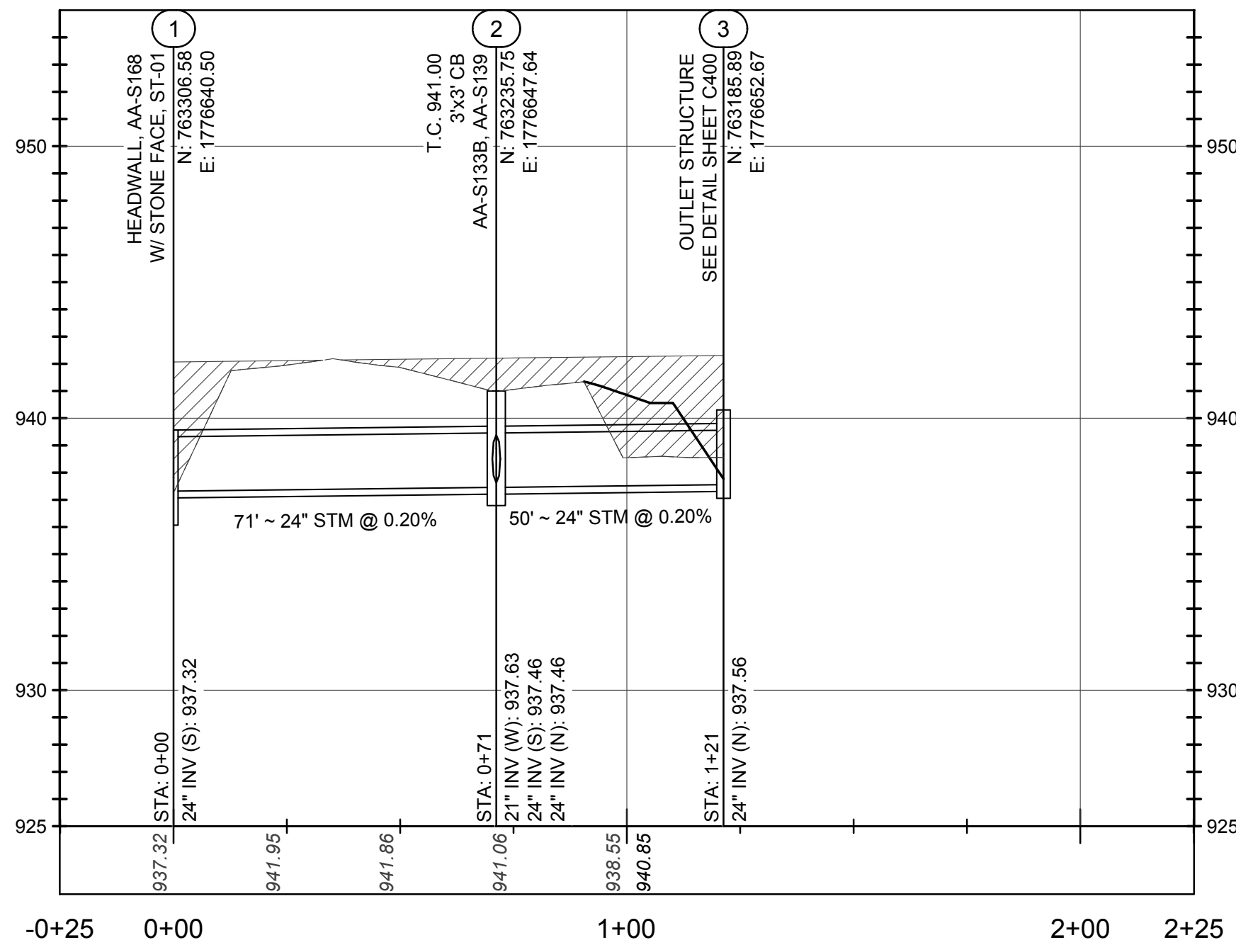




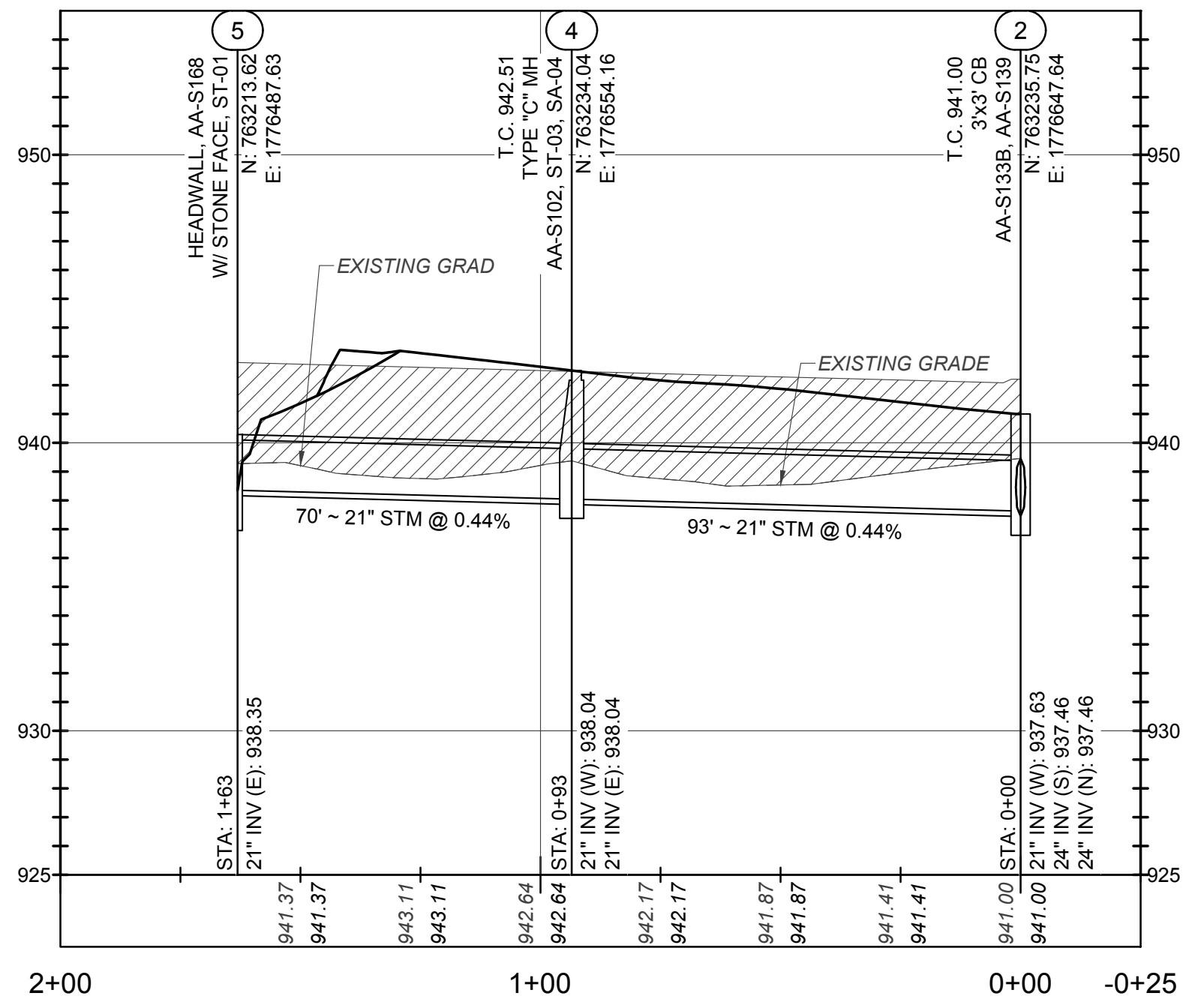
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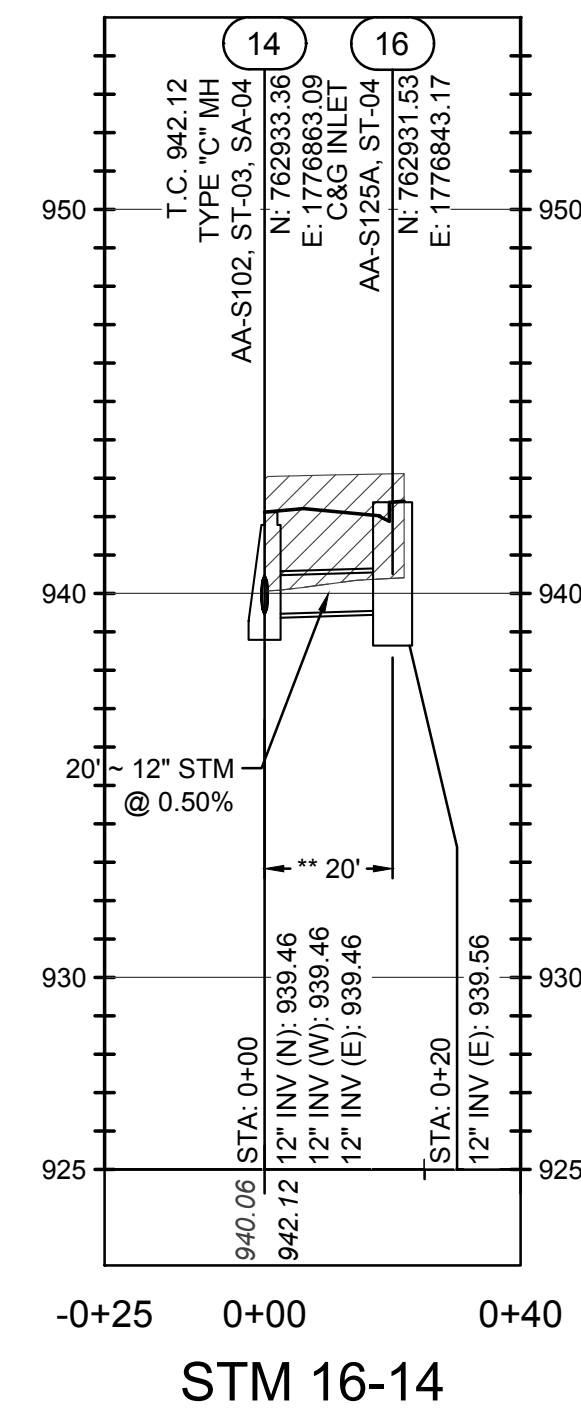
STM 15-10



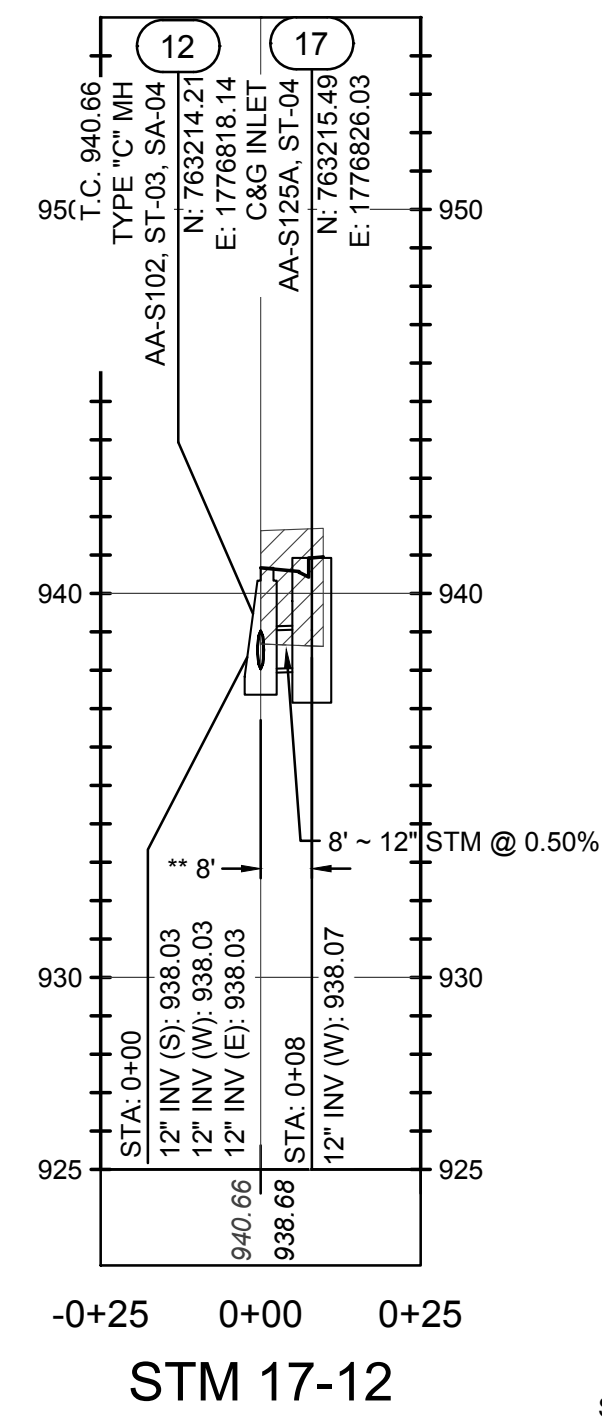
STM 3-1



STM 5-2



STM 16-14



STM 17-12

**STORM SEWER NOTES:**

PROFILE DATUM NAVD '88

MAINTAIN A MINIMUM OF 18" VERTICAL AND 10' HORIZONTAL CLEARANCE FROM WATER MAINS.

ALL BACKFILL SHALL BE COMPACTED TO THE DENSITY OF THE EXISTING GROUND UNLESS OTHERWISE NOTED:

\* COMPACTED BACKFILL PER CMS ITEM 911.

\*\* COMPACTED BACKFILL PER CMS ITEM 912.

ALL FILLS ARE TO BE PLACED A MINIMUM OF 2.5' ABOVE THE PROPOSED STORM SEWER PER ODOT CMS ITEM 203 PRIOR TO THE START OF STORM SEWER CONSTRUCTION.

NORTHING & EASTING AND T/C ELEVATIONS OF ALL CURB AND GUTTER INLETS ALONG THE ROAD ARE IN REFERENCE TO THE BACK OF CURB.

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	07/30/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

C500

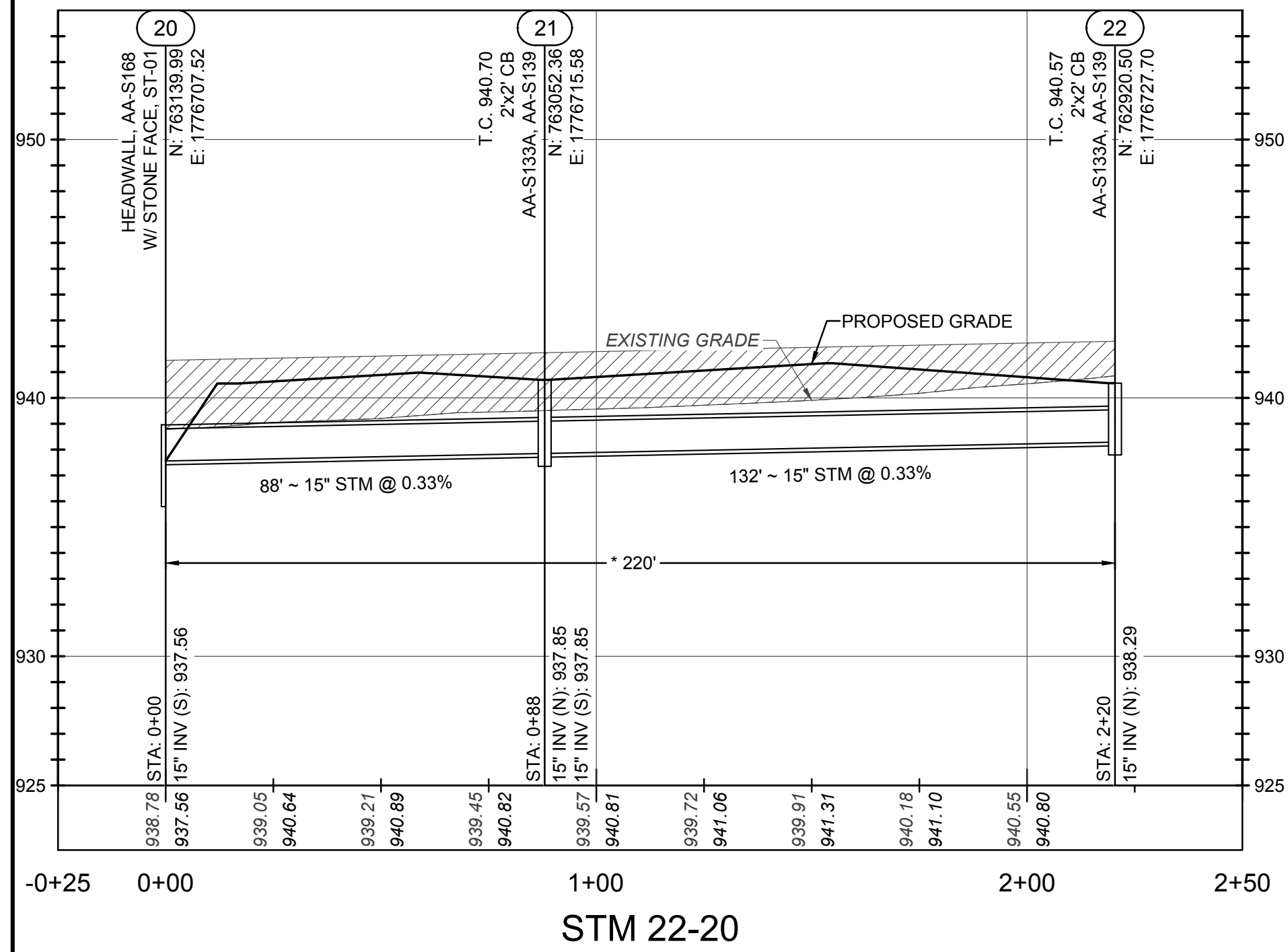
PUBLIC STREET, STORM, AND WATER  
IMPROVEMENTS  
FOR  
**AYRSHIRE FARMS**  
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

STORM SEWER PROFILES

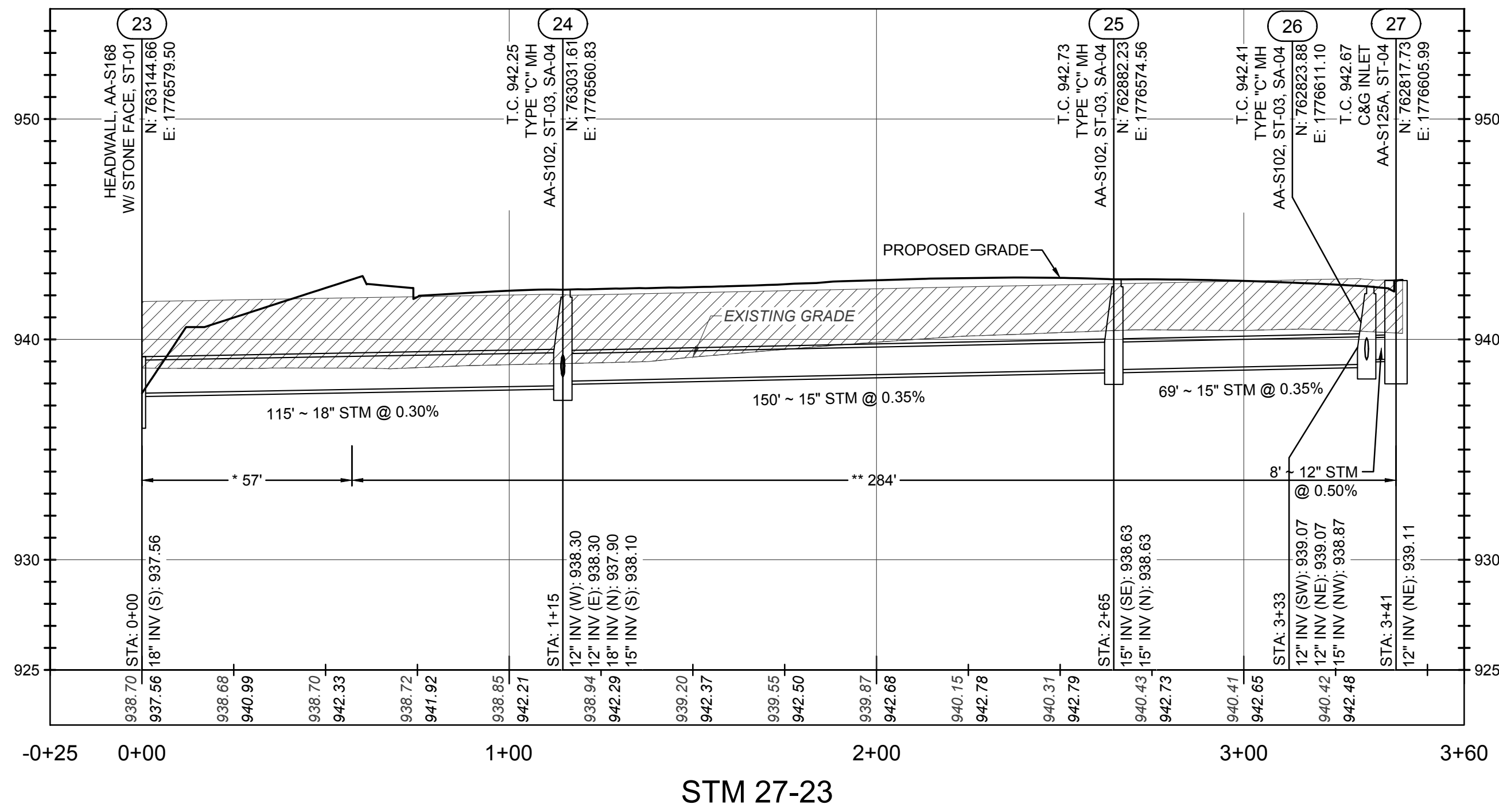
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INC.**  
2550 Corporate Exchange Dr., Ste. 500 | Columbus, Ohio 43221  
TEL: 614.885.1226  
www.structurepoint.com

**ROCKFORD  
HOMES**

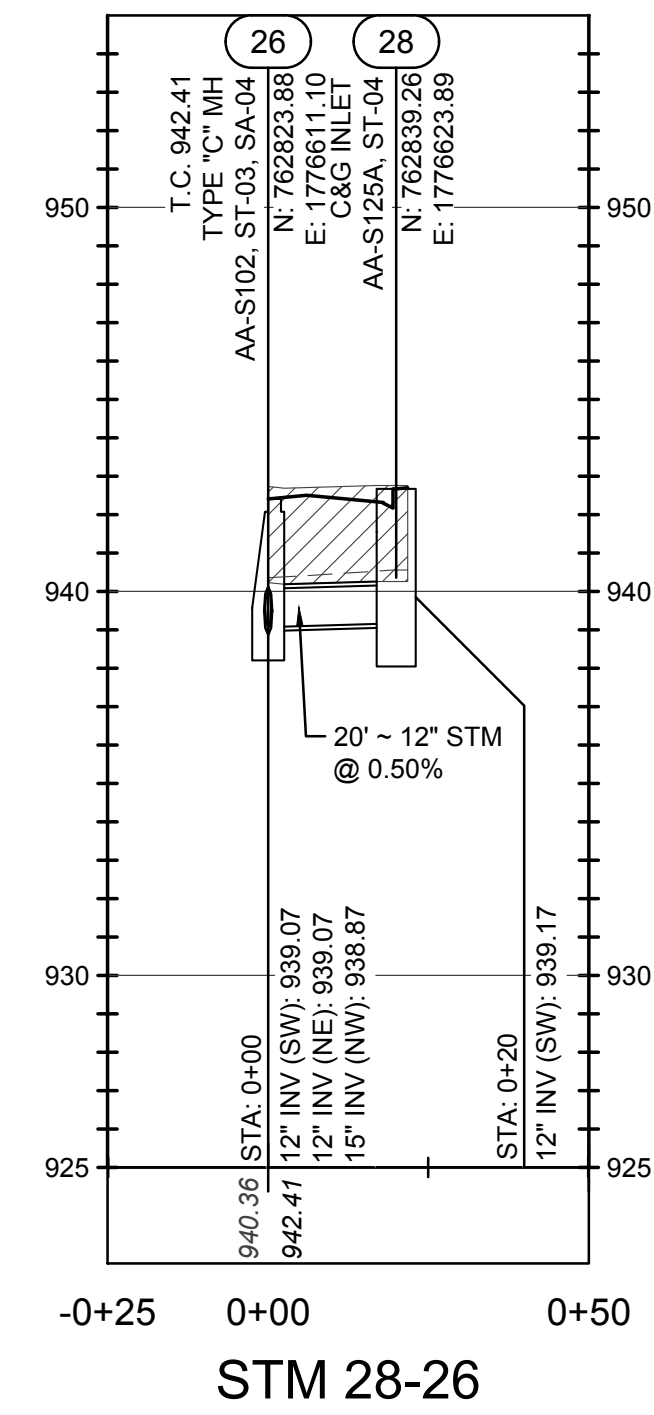
PLOT SCALE: 1"=100' DATE: 7/30/21 - 8:40 AM EDITED BY: IDN DRAWING FILE: 0:20/1901745D DRAWINGS\CIVIL\CONSTRUCTION\DOCUMENTS\STREET, STORM, & WATER\2019.0745 CE STM PROFILES.DWG



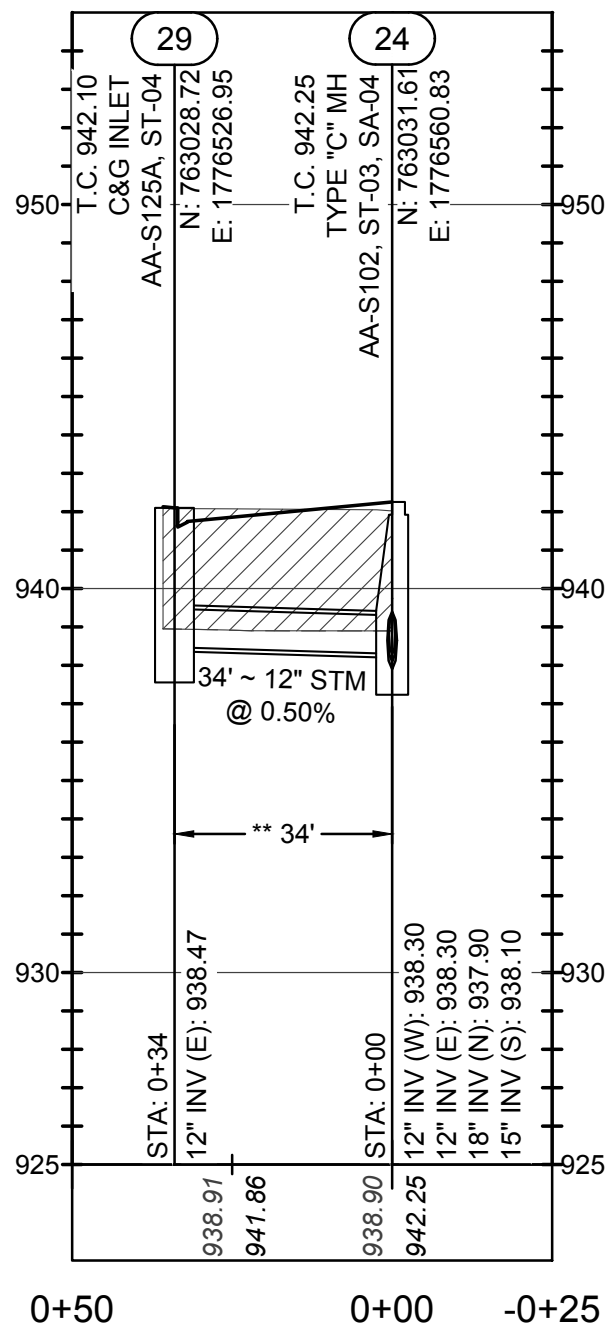
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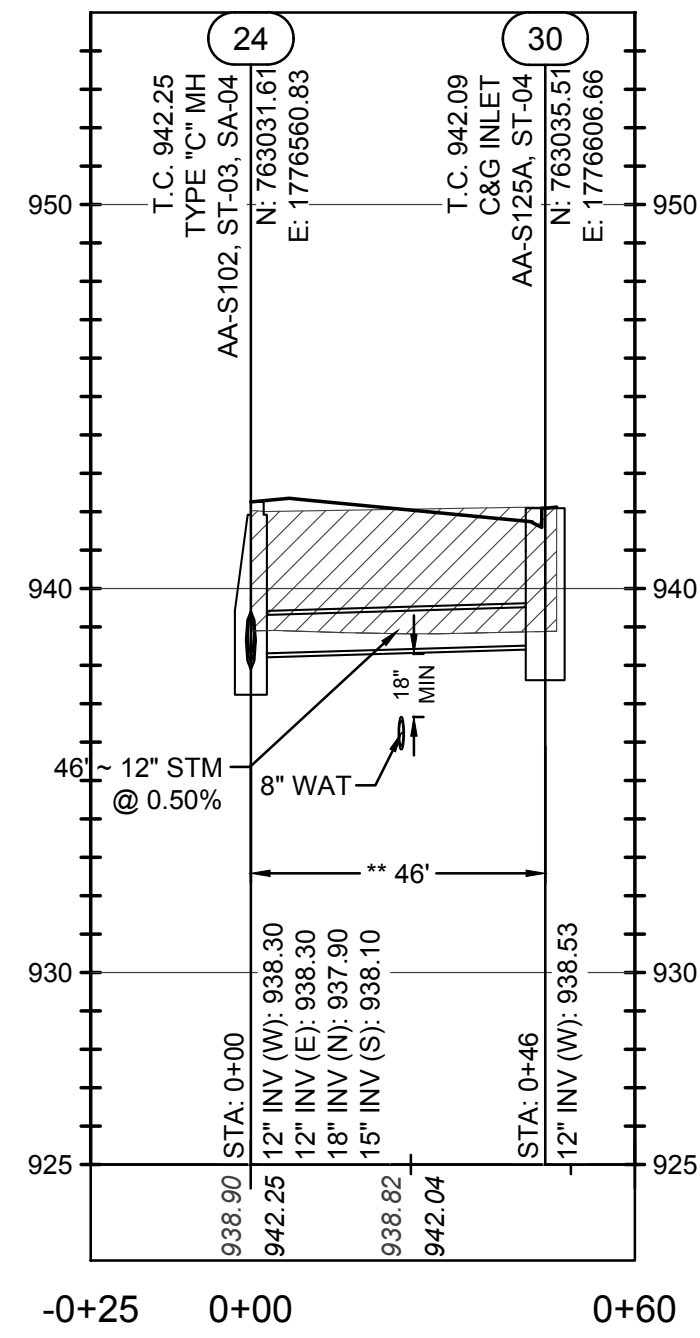
STM 27-23



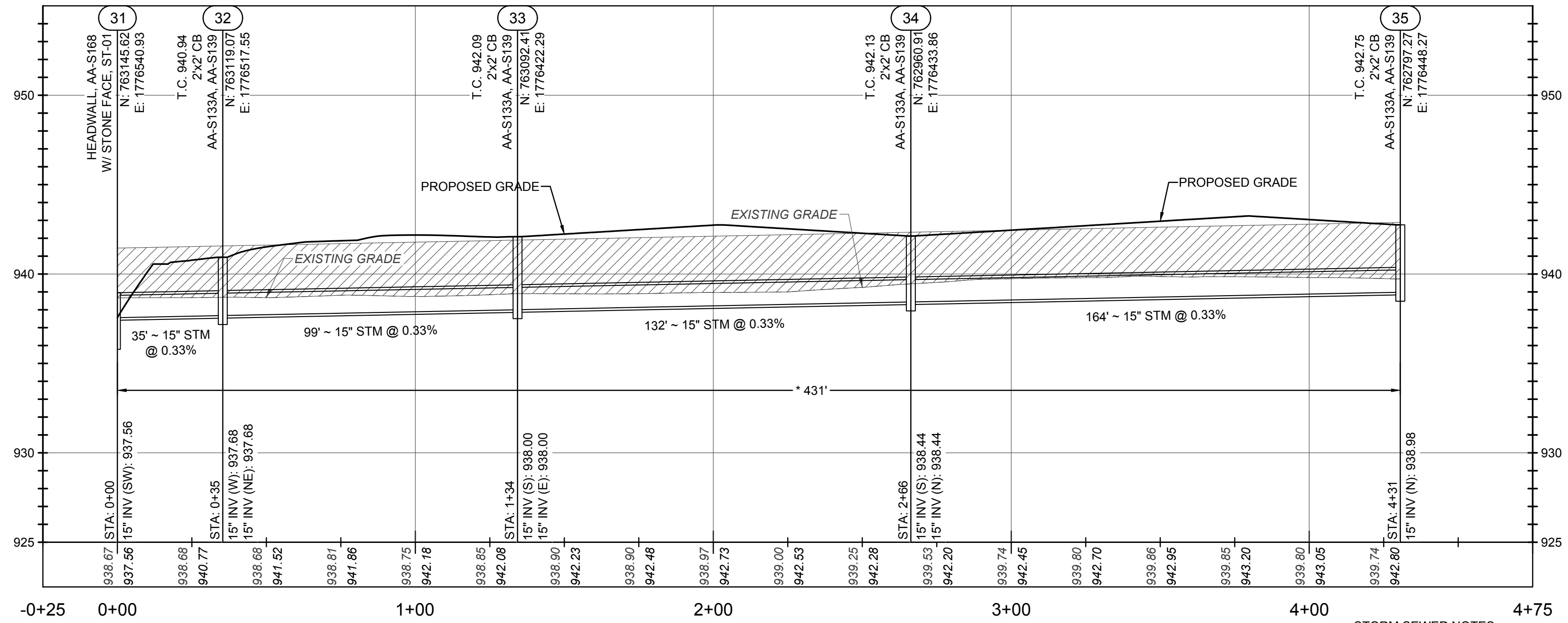
STM 28-26



STM 29-24



STM 30-24



STM 35-31

**STORM SEWER NOTES:**

PROFILE DATUM NAVD '88

MAINTAIN A MINIMUM OF 18" VERTICAL AND 10' HORIZONTAL CLEARANCE FROM WATER MAINS.

ALL BACKFILL SHALL BE COMPACTED TO THE DENSITY OF THE EXISTING GROUND UNLESS OTHERWISE NOTED:

\* COMPACTED BACKFILL PER CMS ITEM 911.

\*\* COMPACTED BACKFILL PER CMS ITEM 912.

ALL FILLS ARE TO BE PLACED A MINIMUM OF 2.5' ABOVE THE PROPOSED STORM SEWER PER ODOT CMS ITEM 203 PRIOR TO THE START OF STORM SEWER CONSTRUCTION.

NORTHING & EASTING AND T/C ELEVATIONS OF ALL CURB AND GUTTER INLETS ALONG THE ROAD ARE IN REFERENCE TO THE BACK OF CURB.

REVISIONS	DATE	SHEET NO.	DESCRIPTION

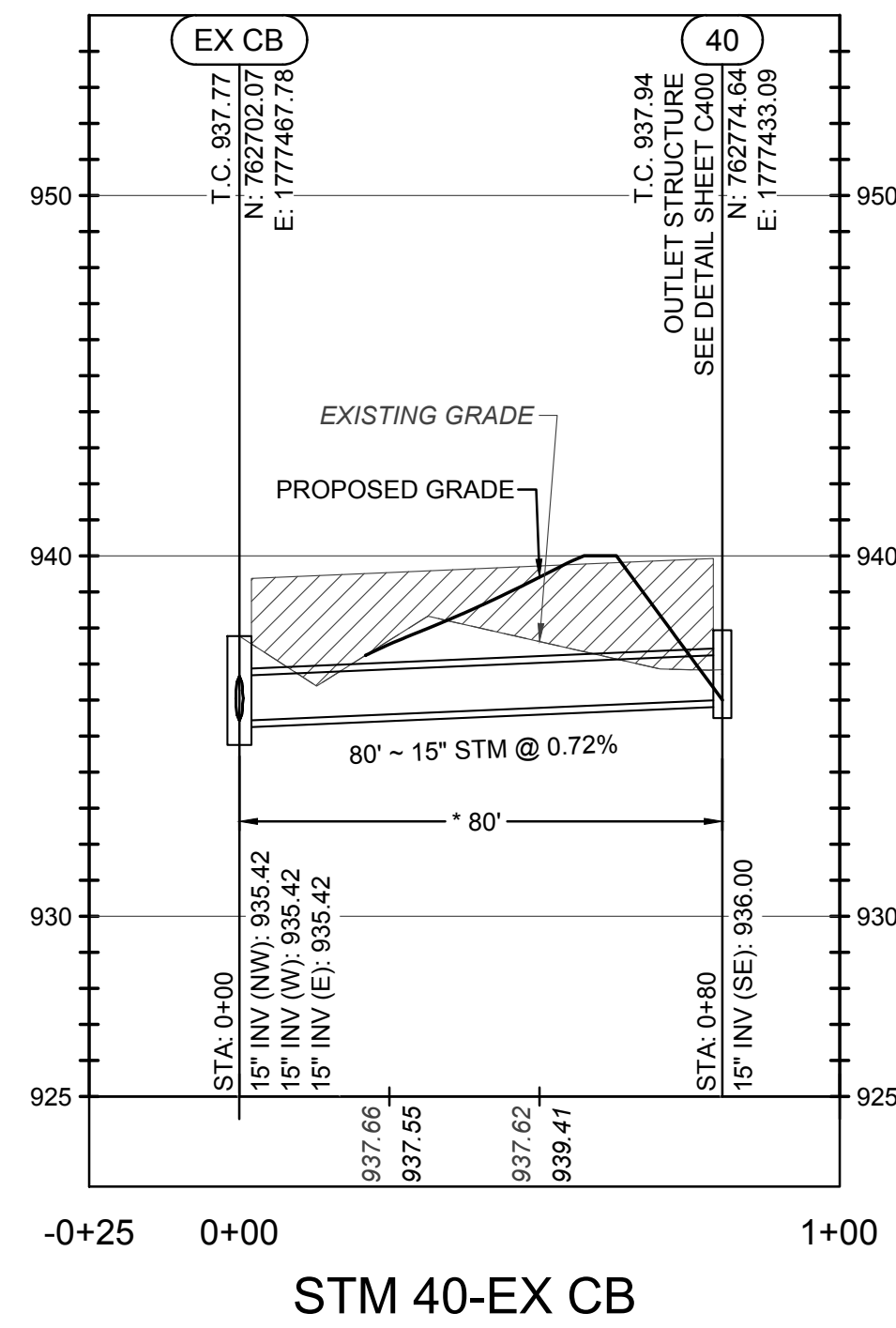
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DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

**C501**

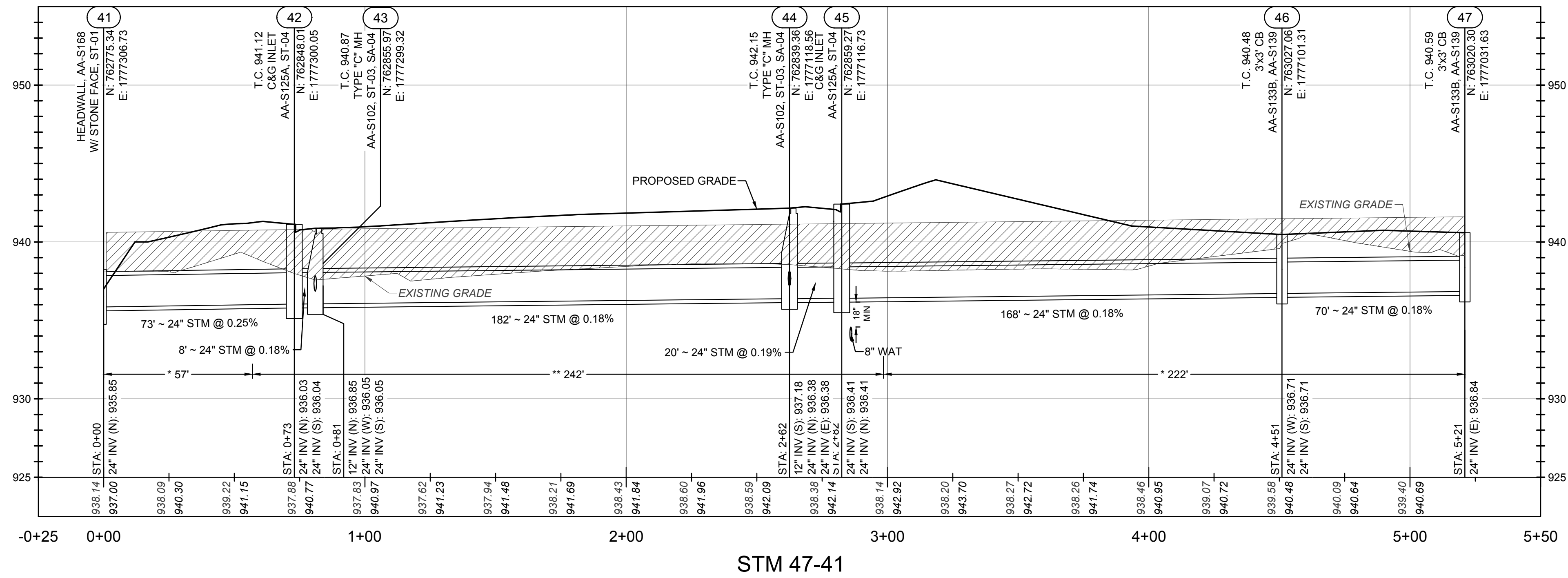
PUBLIC STREET, STORM, AND WATER IMPROVEMENTS  
 FOR  
**AYRSHIRE FARMS**  
 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
**STORM SEWER PROFILES**



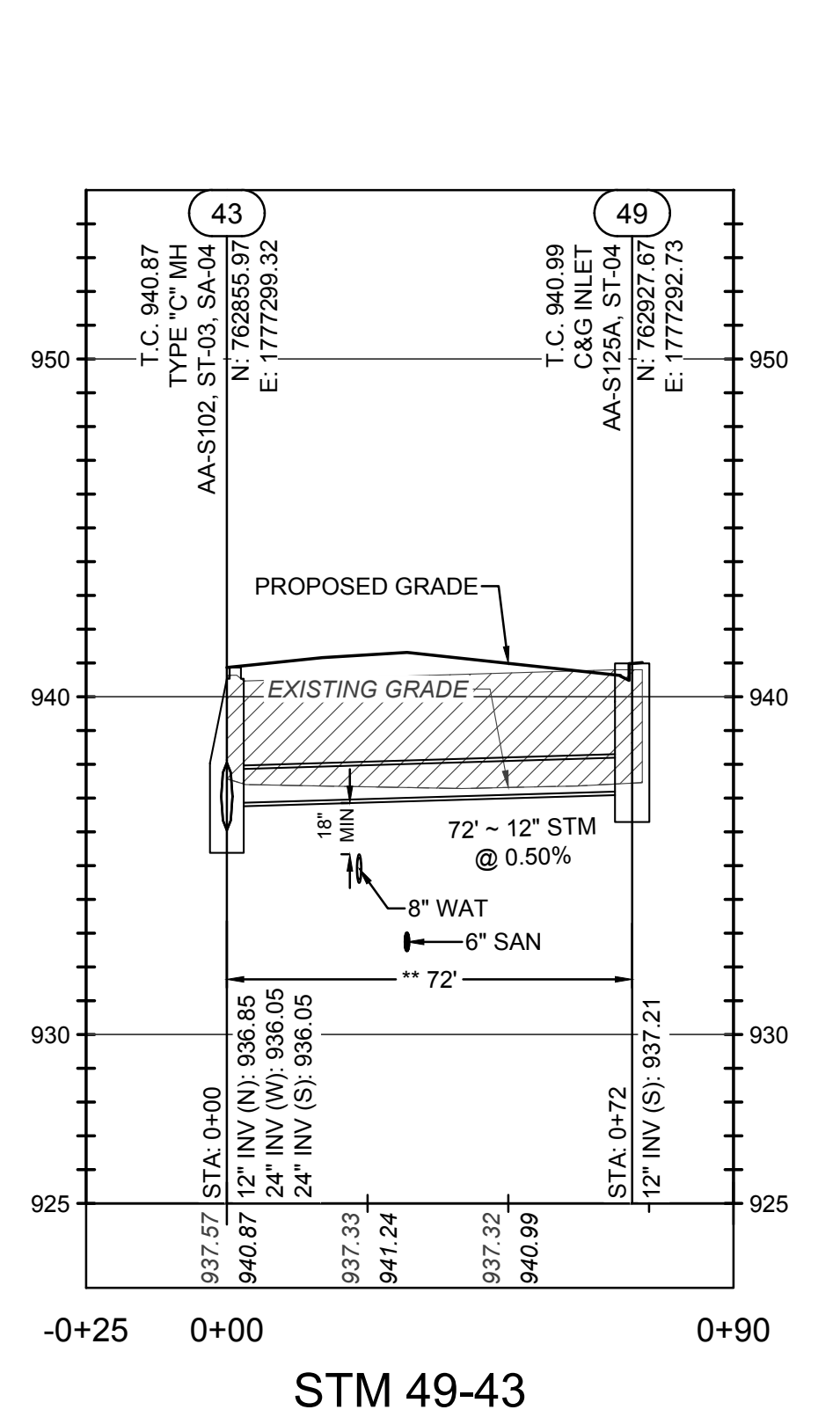
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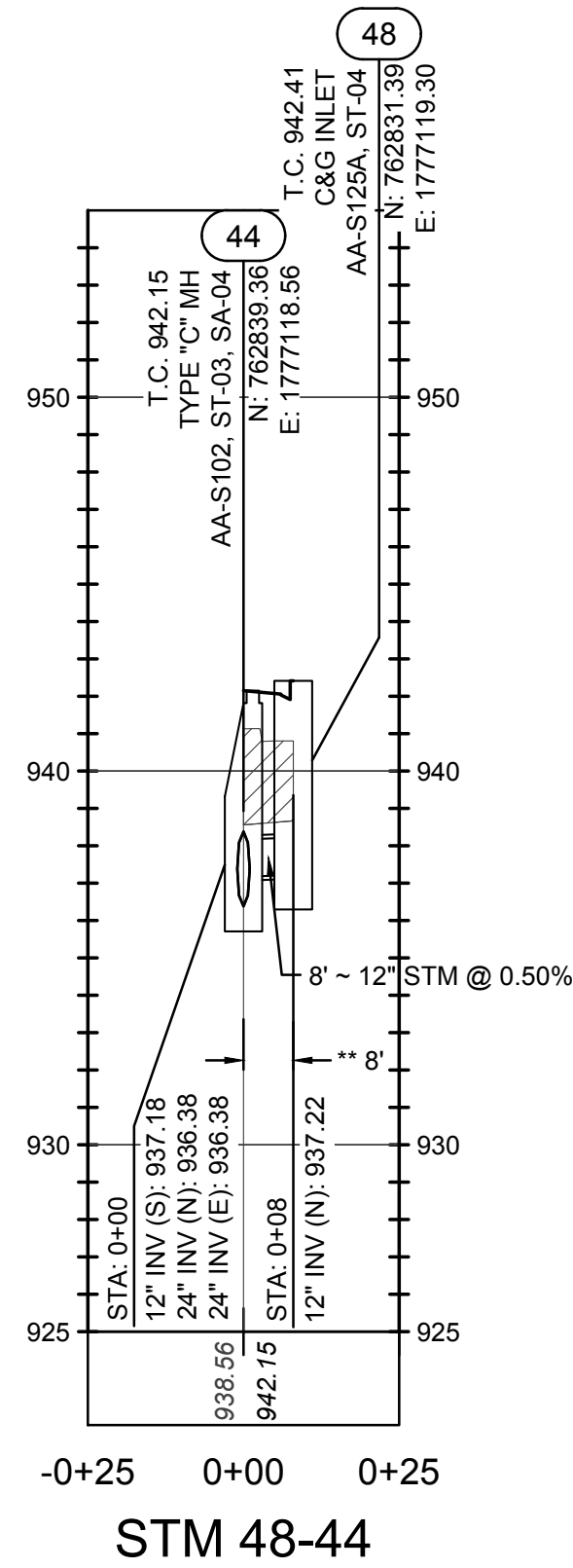
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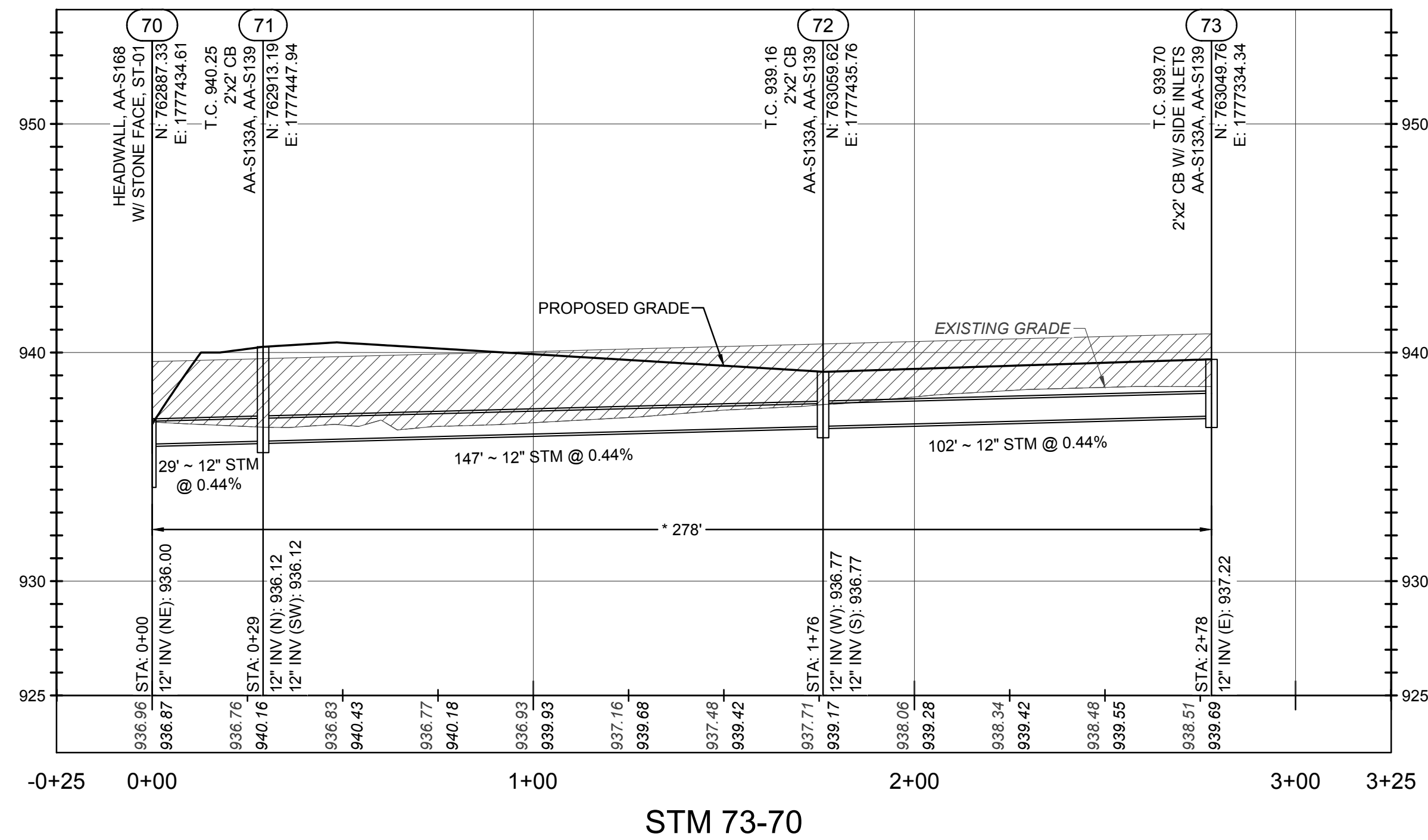
STM 47-41



STM 49-43



STM 48-44



STM 73-70

**STORM SEWER NOTES:**

PROFILE DATUM NAVD '88

MAINTAIN A MINIMUM OF 18" VERTICAL AND 10' HORIZONTAL CLEARANCE FROM WATER MAINS.

ALL BACKFILL SHALL BE COMPACTED TO THE DENSITY OF THE EXISTING GROUND UNLESS OTHERWISE NOTED:

- \* COMPACTED BACKFILL PER CMS ITEM 911.
- \*\* COMPACTED BACKFILL PER CMS ITEM 912.

ALL FILLS ARE TO BE PLACED A MINIMUM OF 2.5' ABOVE THE PROPOSED STORM SEWER PER ODOT CMS ITEM 203 PRIOR TO THE START OF STORM SEWER CONSTRUCTION.

NORTHING & EASTING AND T/C ELEVATIONS OF ALL CURB AND GUTTER INLETS ALONG THE ROAD ARE IN REFERENCE TO THE BACK OF CURB.

REVISIONS	DATE	SHEET NO.	DESCRIPTION

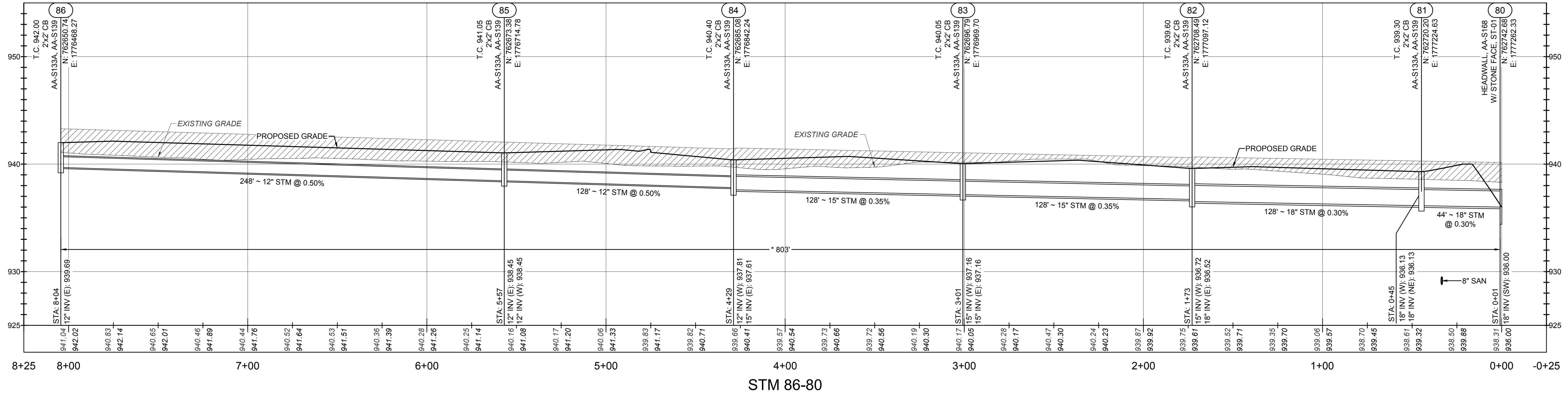
DATE:	07/30/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

**C502**

PUBLIC STREET, STORM, AND WATER IMPROVEMENTS  
 FOR  
**AYRSHIRE FARMS**  
 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
**STORM SEWER PROFILES**



PLOT SCALE: 1:1 EDIT DATE: 7/30/21 - 8:40 AM EDITED BY: IDN DRAWING FILE: C:\20\19\01745D DRAWINGS\CIVIL\CONSTRUCTION\DOCUMENTS\STREET, STORM, & WATER\2019\01745 CE STM PROFILES.DWG



STM 86-80

**STORM SEWER NOTES:**  
 PROFILE DATUM NAVD '88  
 MAINTAIN A MINIMUM OF 18" VERTICAL AND 10' HORIZONTAL CLEARANCE FROM WATER MAINS.  
 ALL BACKFILL SHALL BE COMPACTED TO THE DENSITY OF THE EXISTING GROUND UNLESS OTHERWISE NOTED:  
 \* COMPACTED BACKFILL PER CMS ITEM 911.  
 \*\* COMPACTED BACKFILL PER CMS ITEM 912.

ALL FILLS ARE TO BE PLACED A MINIMUM OF 2.5' ABOVE THE PROPOSED STORM SEWER PER ODOT CMS ITEM 203 PRIOR TO THE START OF STORM SEWER CONSTRUCTION.

NORTHING & EASTING AND T/C ELEVATIONS OF ALL CURB AND GUTTER INLETS ALONG THE ROAD ARE IN REFERENCE TO THE BACK OF CURB.

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	07/30/2021
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C503

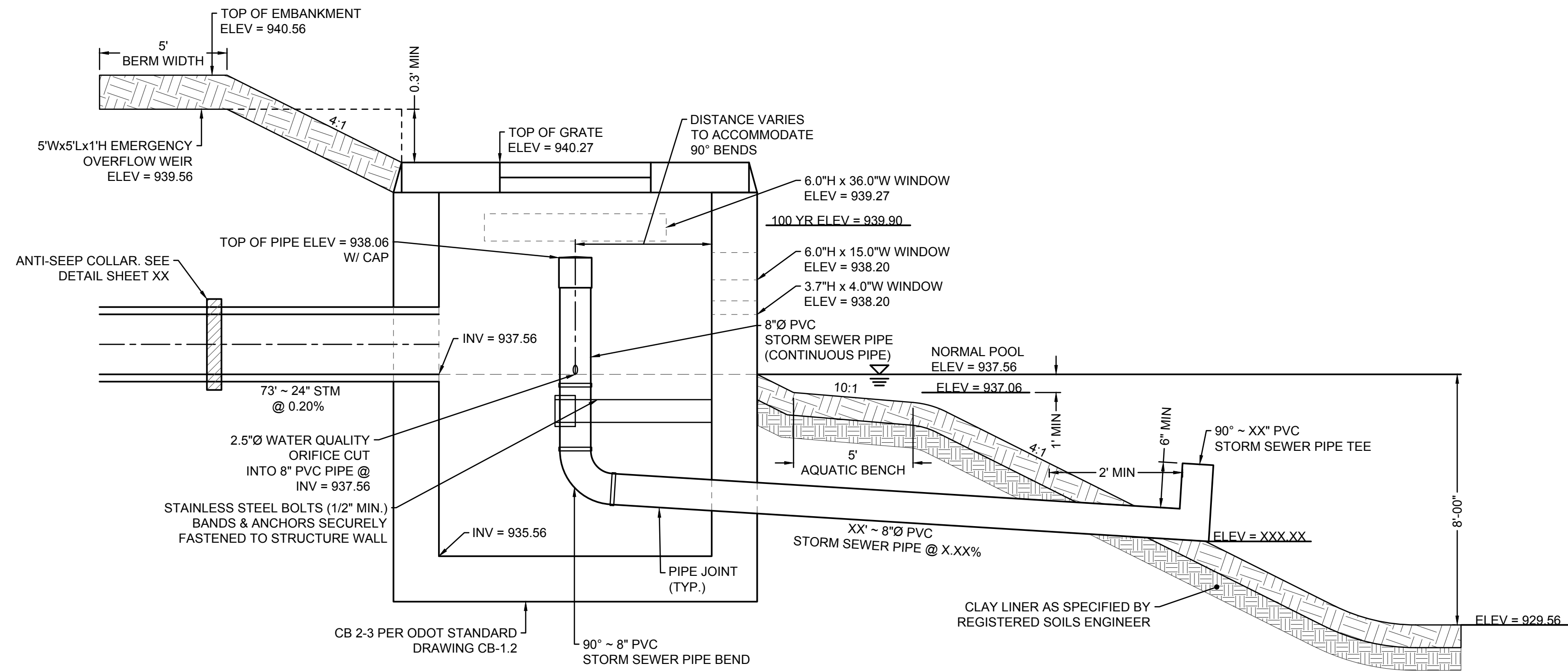
PUBLIC STREET, STORM, AND WATER IMPROVEMENTS  
 FOR  
**AYRSHIRE FARMS**  
 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
**STORM SEWER PROFILES**

**AMERICAN STRUCTUREPOINT INC.**  
 2550 Corporate Exchange Ct., Ste. 300 | Columbus, Ohio 43221  
 TEL: 614.881.1226  
 www.structurepoint.com

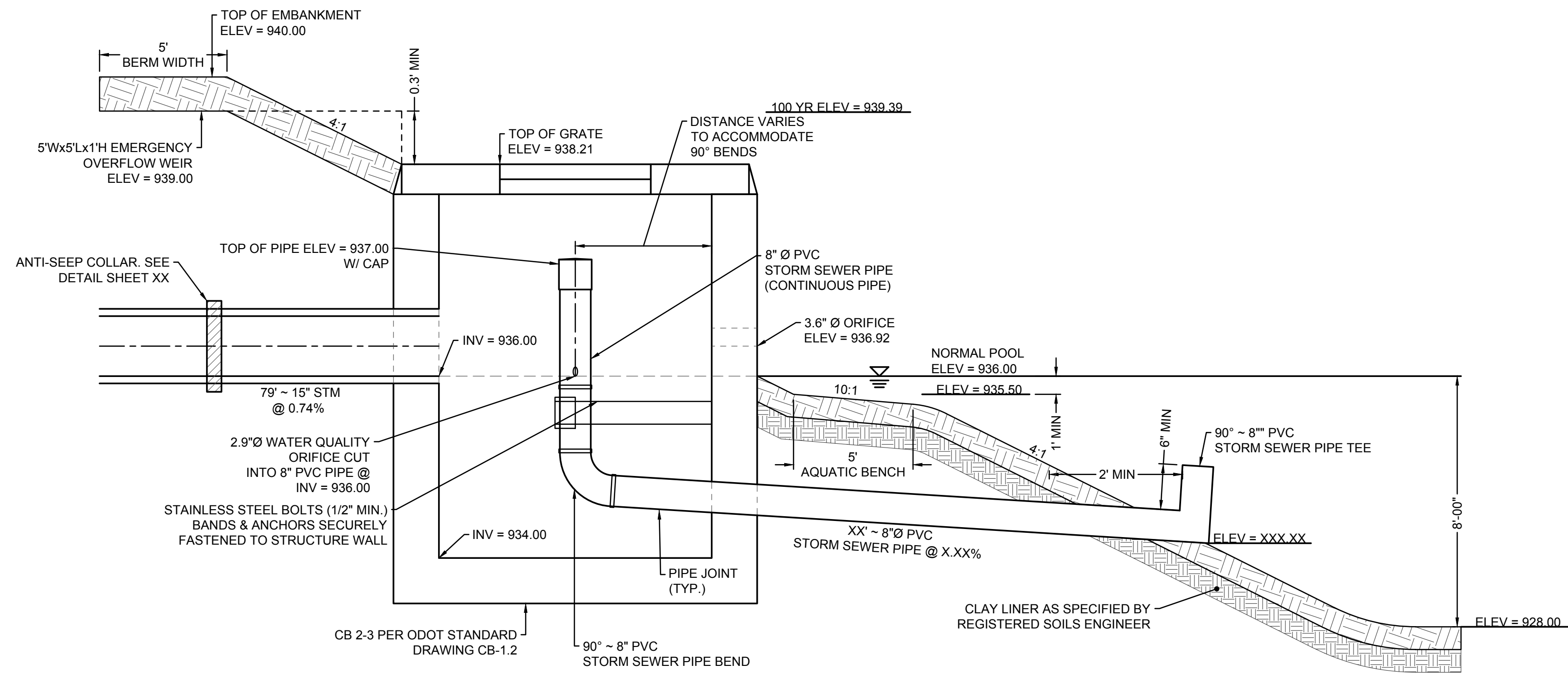




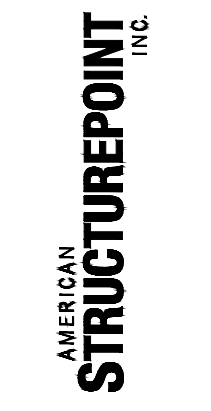
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**Y-Y** WET BASIN OUTLET AND WATER QUALITY CONTROL STRUCTURE (STRUCTURE 4)  
NOT TO SCALE



**Z-Z** WET BASIN OUTLET AND WATER QUALITY CONTROL STRUCTURE (STRUCTURE 4)  
NOT TO SCALE



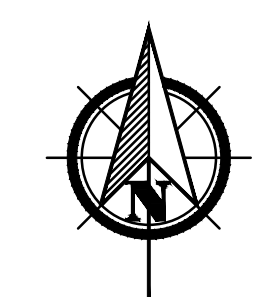
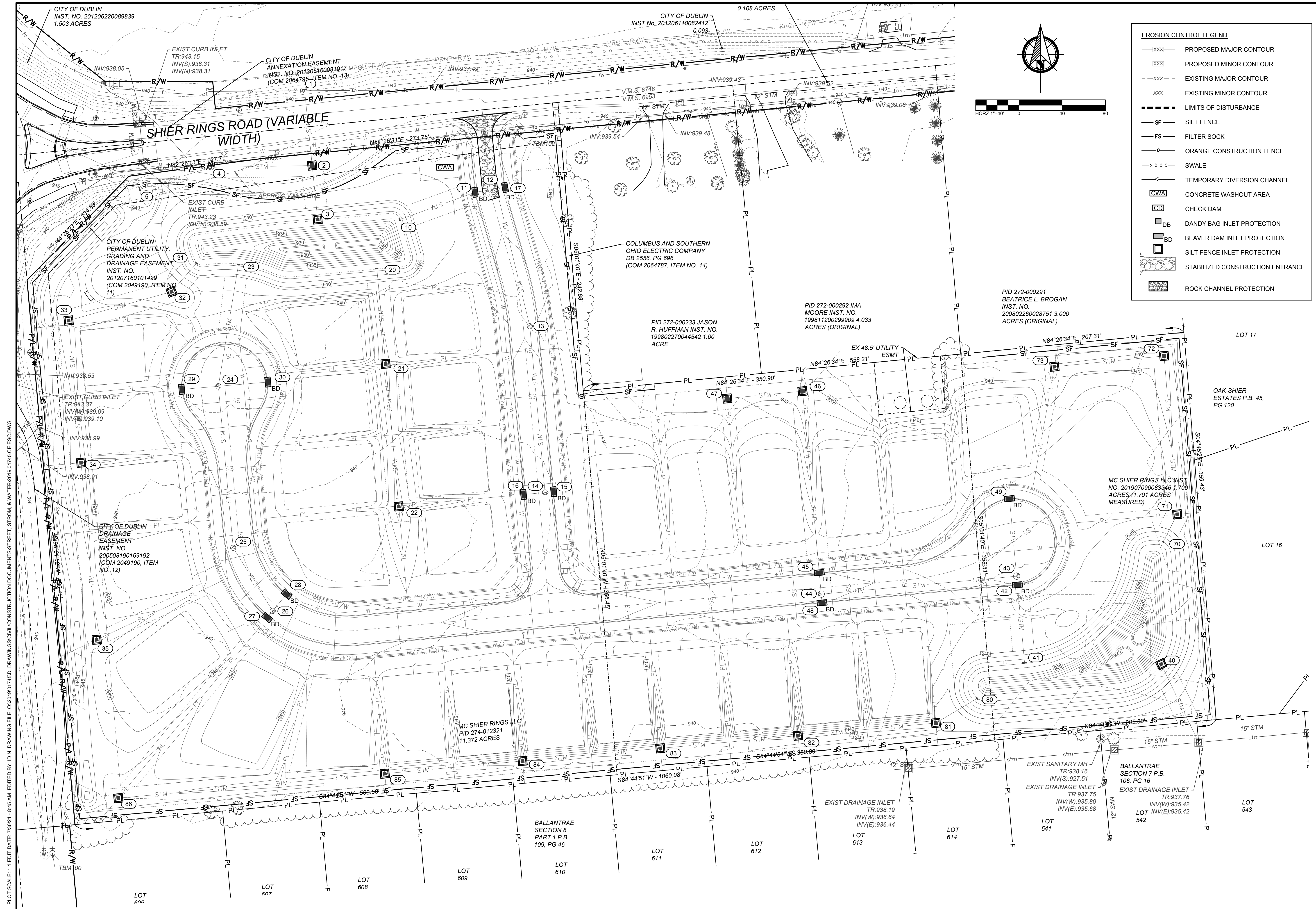
2550 Corporate Exchange Dr., Ste. 300 | Columbus, Ohio 43221  
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PUBLIC STREET, STORM, AND WATER IMPROVEMENTS  
FOR  
**AYRSHIRE FARMS**  
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
**BASIN DETAILS**

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	07/30/2021
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**C700**



**EROSION CONTROL LEGEND**

- XXX— PROPOSED MAJOR CONTOUR
- XXX--- PROPOSED MINOR CONTOUR
- XXX--- EXISTING MAJOR CONTOUR
- XXX--- EXISTING MINOR CONTOUR
- - - - - LIMITS OF DISTURBANCE
- SF - SILT FENCE
- FS - FILTER SOCK
- O - ORANGE CONSTRUCTION FENCE
- > o o > SWALE
- < - - - - - TEMPORARY DIVERSION CHANNEL
- [CWA] CONCRETE WASHOUT AREA
- [CD] CHECK DAM
- [DB] DANDY BAG INLET PROTECTION
- [BD] BEAVER DAM INLET PROTECTION
- [ ] SILT FENCE INLET PROTECTION
- [ ] STABILIZED CONSTRUCTION ENTRANCE
- [ ] ROCK CHANNEL PROTECTION

PLOT SCALE: 1"=110' DATE: 7/30/21 8:46 AM EDITED BY: IDN DRAWING FILE: C:\20\1901745.D DRAWING: CIVIL CONSTRUCTION DOCUMENTS\STREET, STORM, & WATER\2019\1901745.CE.DWG



PUBLIC STREET, STORM, AND WATER IMPROVEMENTS  
**AYRSHIRE FARMS**  
 FOR THE CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
**EROSION & SEDIMENT CONTROL PLAN**

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	07/30/2021
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C800



SITE NARRATIVE

PLAN DESIGNER  
AMERICAN STRUCTUREPOINT, INC.  
2550 CORPORATE EXCHANGE DR., STE 300  
COLUMBUS, OHIO 43231  
CONTACT: BENJAMIN J. MILLER  
PHONE: (614) 901-2235  
EMAIL: BMILLER@STRUCTUREPOINT.COM

OWNER/ DEVELOPER  
DAN LORENZ  
9341 JEROME ROAD  
DUBLIN, OH 43017  
CONTACT: DAN LORENZ  
PHONE: (614) 989-2228  
EMAIL: DAN@JOEKNOWSENERGY.COM

**EXISTING SITE CONDITIONS:** THE EXISTING SITE CONSISTS OF A GRASSY FIELD AND SPORADIC TREES. THE SITE CURRENTLY DRAINS FROM NORTH TO SOUTH TO AN EXISTING ON-SITE BASIN. ADDITIONALLY, THE BASIN SERVES THE SITE AS WELL AS APPROXIMATELY 5 ACRES OF OFFSITE AREA. THE BASIN ULTIMATELY OUTLETS INTO NORTH FORK INDIAN RUN VIA UNNAMED CREEKS & DITCHES.

**PROJECT DESCRIPTION:** ACTIVITIES INCLUDE THE CONSTRUCTION OF A 17 LOT SUBDIVISION WITH ASSOCIATED UTILITIES, STREETS, SIDEWALK AND PAVEMENT IMPROVEMENTS. APPROXIMATELY 5.022 ACRES OF THE SITE WILL BE DISTURBED.

**RECEIVING STREAM:** SERIES OF UNNAMED DITCHES EVENTUALLY DRAINING TO INDIAN RUN.

**DISTURBED AREA:** 5.022 ACRES

**SITE BMPS:** FINAL LOCATIONS OF ALL SITE BMPS, INCLUDING DUMPSTERS, VEHICLE FUELING AREAS, CONCRETE TRUCK WASH, MATERIAL STORAGE, AND TOPSOIL STOCKPILES SHALL BE DETERMINED BY CONTRACTOR. IF FINAL LOCATION OF BMPS DIFFER FROM THE LOCATIONS SHOWN, CONTRACTOR SHALL MODIFY SWPPP AND INFORM THE CITY OF DUBLIN AND OHIO EPA OF NEW LOCATIONS OF BMPS.

**ADJACENT AREAS:**  
EAST: RURAL AREA  
NORTH: JEROME ROAD  
WEST: RURAL AREA  
SOUTH: RESIDENTIAL SUBDIVISION

**GRADING REQUIREMENTS:** DISTURBED AREAS WILL BE PROTECTED BY SILT FENCE, ROCK CHECK DAMS, INLET PROTECTION, AND TEMPORARY SEDIMENT BASINS AS SHOWN ON THE PLAN. AREAS WILL BE STABILIZED WHEN GRADED TO PREVENT EROSION ON THE SITE.

**EROSION & SEDIMENT CONTROL MEASURES:** A COMBINATION OF MEASURES WILL BE USED TO PROVIDE EROSION & SEDIMENT CONTROL, INCLUDING SILT FENCE AND SEEDING.

PROVIDE INLET PROTECTION AT ALL NEW AND EXISTING DRAINAGE STRUCTURES.

ANY OFF SITE BORROW OR SPOIL AREAS SHALL BE SUBJECT TO THE REQUIREMENTS SET FORTH BY THE OHIO EPA. ALL EROSION AND SEDIMENT CONTROL MEASURES FOR OFF-SITE AREAS NOT COVERED BY A SEPARATE NOI OR SWPPP SHALL BE COORDINATED WITH THE OHIO EPA.

ALL TRENCH OR EXCAVATION GROUNDWATER CONTAINING SEDIMENT MUST BE EFFECTIVELY TREATED PRIOR TO DISCHARGE INTO THE STORM SEWER SYSTEM.

USE ALL MEANS NECESSARY TO CONTROL DUST ON THE SITE AND PREVENT TRACKING SOIL OFF SITE.

**PERMANENT STABILIZATION:** THE SITE WILL BE STABILIZED BY THE USE OF SEEDING OR SODDING IN LAWN AREAS.

**MAINTENANCE:** ALL EROSION CONTROL DEVICES ARE TO BE INSPECTED BY THE CONSTRUCTION SUPERINTENDENT WEEKLY AND AFTER SIGNIFICANT RAINFALLS IN ACCORDANCE WITH CONSTRUCTION GENERAL PERMIT. ANY DAMAGED FACILITIES ARE TO BE REPLACED OR REPAIRED IMMEDIATELY AS MAY BE NECESSARY.

**GENERAL CONSTRUCTION SEQUENCE:** (UNLESS NOTED OTHERWISE, ALL EROSION AND SEDIMENT CONTROL MEASURES FROM THE BEGINNING OF EARTH DISTURBING ACTIVITIES TO FINAL COMPLETION OF THE PROJECT ARE THE RESPONSIBILITY OF THE CONTRACTOR)

- 1 - ESTABLISH CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT CONSTRUCTION AREA.
- 2 - ADD TREE PROTECTION FENCING
- 3 - CONSTRUCT TEMPORARY SEDIMENT CONTROLS AND PERIMETER EROSION CONTROL MEASURES, INCLUDING CONSTRUCTION ENTRANCE, AND SILT FENCE. MEASURES SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN 7 DAYS OF FIRST GRUBBING.
- 4 - CLEAR AND GRUB
- 5 - STRIP AND STOCKPILE TOPSOIL. SEED STOCKPILES. PROVIDE PERIMETER SILT FENCE AT TOE OF STOCKPILE SLOPE.
- 6 - PERFORM ROUGH GRADING AND EXCAVATION. STABILIZE AREAS AS INDICATED HEREIN.
- 7 - INSTALL TEMPORARY SEDIMENT BASINS AND TEMPORARY OUTLET STRUCTURE.
- 8 - INSTALL STORM SEWERS, OUTLET STRUCTURE, AND INLET FILTERS.
- 9 - COMPLETE ALL PAVEMENT ACTIVITIES.
- 10 - COMPLETE FINE GRADING OF SEEDED AREAS AND STABILIZE DISTURBED AREAS.
- 11 - ONCE FINAL SEED HAS BEEN ESTABLISHED, CONTRACTOR TO REMOVE TEMPORARY EROSION CONTROL MEASURES AND CLEAN ALL SEDIMENT FROM STRUCTURES AND PAVEMENT. SEDIMENT/WATER QUALITY BASIN SHALL BE CLEANED OF ALL ACCUMULATED SEDIMENT AND RESTORED TO THE ORIGINAL DESIGN CONTOURS SHOWN ON THESE PLANS.
- 12 - PRIOR TO FINISHING WORK, ALL AREAS OF THE SITE DISTURBED BY CONSTRUCTION ACTIVITY (INCLUDING, BUT NOT LIMITED TO MATERIAL STORAGE AREAS, TRAILER AREAS, FUELING AREAS, TRUCK WASH AREAS, EQUIPMENT PATHS, HAUL ROADS, ETC.) SHALL BE RESTORED TO THEIR ORIGINAL CONDITIONS, OR IF IN AREAS OF PROPOSED IMPROVEMENTS, TO THEIR PROPOSED CONDITIONS. ALL STONE, TRASH, AND DEBRIS SHALL BE REMOVED FROM THE SOIL. THE UPPER 12" OF SOIL SHALL BE SCARIFIED, AND AREA SHALL BE GRADED TO SUBGRADE WITH SUITABLE MATERIALS. FURNISH 6" MINIMUM OF TOPSOIL AND SEED ALL AREAS.

**SCHEDULE:** THE CONTRACTOR SHALL PROVIDE A SCHEDULE OF OPERATIONS TO THE OWNER. SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE PLACED IN ACCORDANCE WITH THIS SCHEDULE.

**JURISDICTION:** ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATIONS AT THE DISCRETION OF THE CITY OF DUBLIN AND/OR THE OHIO EPA.

**OEPA NOI:** 4GC06816AG

**RUNOFF COEFFICIENTS:**  
PRE-DEVELOPED: CN = 83  
POST-DEVELOPED: CN = 90  
PRE-DEVELOPED IMPERVIOUS AREA: 0.765 ACRES  
POST-DEVELOPED IMPERVIOUS AREA: 2.745 ACRES

EROSION CONTROL NOTES:

1. ALL EROSION CONTROL FACILITIES SHALL BE INSTALLED PRIOR TO ANY SITE GRADING OPERATIONS. ALL APPLICABLE GOVERNING AGENCIES MUST BE NOTIFIED UPON COMPLETION OF THE INSTALLATION OF THE REQUIRED EROSION FACILITIES AND PRIOR TO ANY GRADING OPERATION BEING COMMENCED. IF DAMAGED OR REMOVED DURING CONSTRUCTION, ALL EROSION CONTROL FACILITIES SHALL BE RESTORED AND IN PLACE AT THE END OF EACH WORK DAY.
2. ANY EROSION CONTROL FACILITIES DEEMED NECESSARY BY THE GOVERNING AGENCIES; BEFORE, DURING OR AFTER THE GRADING ACTIVITIES, SHALL BE INSTALLED AT THEIR REQUEST.
3. FLOWS FROM DIVERSION CHANNELS OR PIPES (TEMPORARY OR PERMANENT) SHALL BE ROUTED TO SEDIMENTATION BASINS OR APPROPRIATE ENERGY DISSIPATORS TO PREVENT TRANSPORT OF SEDIMENT TO OUTFLOW TO LATERAL CONVEYORS AND TO PREVENT EROSION AND SEDIMENTATION WHEN RUNOFF FLOWS INTO THESE CONVEYORS.
4. SITE ACCESS ROADS SHALL BE GRADED OR OTHERWISE PROTECTED WITH SILT FENCES, DIVERSION CHANNELS, OR DIKES AND PIPES TO PREVENT SEDIMENT FROM EXITING THE SITE VIA THE ACCESS ROADS. SITE-ACCESS ROADS/DRIVEWAYS SHALL BE SURFACED WITH CRUSHED ROCK WHERE THEY ADJOIN EXISTING PAVED ROADWAYS.
5. SOILS TRACKED FROM THE SITE BY MOTOR VEHICLES OR EQUIPMENT SHALL BE CLEANED DAILY FROM PAVED ROADWAY SURFACES, OR MORE FREQUENTLY IF REQUESTED BY GOVERNING AGENCIES, THROUGHOUT THE DURATION OF CONSTRUCTION.
6. DUST CONTROL MEASURES SHALL BE PERFORMED PERIODICALLY WHEN CONDITIONS REQUIRE AND/OR AS DIRECTED BY THE GOVERNING AGENCIES.
7. ALL EROSION CONTROL MEASURES SHALL BE USED AND MAINTAINED FOR THE DURATION OF SITE CONSTRUCTION. IF CONSTRUCTION OPERATIONS OR NATURAL EVENTS DAMAGE OR INTERFERE WITH THESE EROSION CONTROL MEASURES, THEY SHALL BE RESTORED TO SERVE THEIR INTENDED FUNCTION AT THE END OF EACH DAY OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
8. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED AS SOON AS POSSIBLE. ANY AREAS WHICH HAVE BEEN FINISHED GRADED SHALL BE SODDED. AREAS THAT HAVE BEEN DISTURBED AND FOR WHICH GRADING OR SITE BUILDING CONSTRUCTION OPERATIONS ARE NOT ACTIVELY UNDERWAY SHALL BE TEMPORARILY SEEDED AND MULCHED AS REQUIRED BY GOVERNING AGENCIES.
9. RUNOFF SHALL BE PREVENTED FROM ENTERING ALL STORM SEWER CATCH BASINS PROVIDING THEY ARE NOT NEEDED DURING CONSTRUCTION. WHERE STORM SEWER CATCH BASINS ARE NECESSARY FOR SITE DRAINAGE DURING CONSTRUCTION, A SILT FENCE OR SEDIMENT PROTECTION DEVICES SHALL BE INSTALLED AND MAINTAINED AROUND ALL CATCH BASINS UNTIL THE TRIBUTARY AREA TO THE CATCH BASIN IS RESTORED.
10. EROSION CONTROL FACILITIES SHALL BE INSTALLED AND MAINTAINED AROUND THE PERIMETER OF ALL LAKES, PONDS, AND WETLANDS, IF ANY WITHIN OR ADJACENT TO THE AREA TO BE GRADED UNTIL THE AREA TRIBUTARY TO THE LAKE, POND, OR WETLAND IS RESTORED.
11. TO MINIMIZE EROSION, ALL 3:1 SLOPES OR GREATER SHALL BE COVERED WITH A TEMPORARY EROSION CONTROL BLANKET OR STAKED SOD.
12. ACCUMULATION OF ALL SEDIMENT OCCURRING IN STORM SEWERS, DITCHES, LAKES, PONDS, WETLANDS SHALL BE REMOVED PRIOR TO, DURING AND AFTER COMPLETION OF GRADING ACTIVITIES, AT NO ADDITIONAL COST TO OWNER.
13. EROSION CONTROL ITEMS AND DEVICES SHALL BE REMOVED ONLY AFTER THE AREA HAS RECEIVED FINAL STABILIZATION.

POST CONSTRUCTION STORM WATER QUALITY MANAGEMENT - DETENTION BASIN NOTES:

THE DETENTION BASIN WILL ACT AS A STORM WATER QUALITY BASIN. THE BASIN WAS SIZED TO TREAT WATER QUALITY VOLUME IN ADDITION TO PROVIDING STORM WATER DETENTION. AN ADDITIONAL 20% OF VOLUME WAS PROVIDED FOR SEDIMENT LOADING. THE WATER QUALITY VOLUME WILL DRAIN THROUGH A SMALL DIAMETER ORIFICE ON THE OUTLET STRUCTURE.

1. GENERAL MAINTENANCE: INSPECT BASIN AND OUTLET STRUCTURE ONCE PER MONTH OR AFTER RAINFALL EVENTS OF 0.5 INCHES OR GREATER. MAINTAIN DOCUMENTATION OF ALL INSPECTIONS AND MAINTENANCE.
2. BASIN MAINTENANCE: EXCAVATE AND DISPOSE SEDIMENT OFF-SITE IN ACCORDANCE WITH LOCAL STANDARDS WHEN BASIN HAS ACCUMULATED 3 INCHES OF SEDIMENT. SEDIMENT SHALL BE REMOVED FROM THE FOREBAY AND MICROPPOOL OF THE BASIN ONCE SITE HAS BEEN STABILIZED. CLEAN OUT ALL SEDIMENT CONTAINED IN THE FOREBAY AND MICROPPOOL. ALL SEDIMENT REMOVAL THEREAFTER SHALL BE LESS FREQUENT AND SHALL OCCUR WHEN BASIN FUNCTIONALITY HAS DECREASED OR ACCUMULATION HAS EXCEEDED 3 INCHES.
3. OUTLET STRUCTURE MAINTENANCE: REMOVE FLUSHED DEBRIS AND SEDIMENT FROM OUTLET STRUCTURE MINIMUM OF ONCE EVERY SIX MONTHS OR WHEN SEDIMENT ACCUMULATES TO WITHIN 6 INCHES OF OUTLET, OR IF STANDING WATER PERSISTS FOR MORE THAN 72 HOURS.

SEDIMENT AND EROSION CONTROL NOTES:

**MAINTENANCE & INSPECTION PROCEDURES:**  
ALL CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EACH WEEK AND WITHIN 24 HOURS FOLLOWING ANY STORM EVENT OF 0.5 INCHES OR GREATER.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE SEDIMENTATION AND EROSION CONTROL FEATURES ON THIS PROJECT. ANY SEDIMENT OR DEBRIS WHICH REDUCES THE EFFICIENCY OF A CONTROL FEATURE SHALL BE REMOVED IMMEDIATELY. SHOULD A STRUCTURE OR FEATURE BECOME DAMAGED, THE CONTRACTOR SHALL REPAIR OR REPLACE AT NO ADDITIONAL COST TO THE OWNER AND IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.

TEMPORARY SEEDING AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

A MAINTENANCE INSPECTION REPORT SHALL BE MADE AFTER EACH INSPECTION, AND A WRITTEN LOG MUST BE KEPT. THIS LOG SHALL INDICATE THE DATE OF THE INSPECTION, NAME OF THE INSPECTOR, WEATHER CONDITIONS, OBSERVATIONS, ANY CORRECTIVE ACTIONS TAKEN, AND BE SIGNED IN ACCORDANCE WITH THE CONDITIONS OF THE NPDES PERMIT. ANY CONTROL MEASURE MUST BE REPAIRED/REPLACED WITHIN THREE DAYS OF INSPECTION.

PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL BE TRAINED IN ALL INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER. A WRITTEN DOCUMENT CONTAINING THE SIGNATURES OF ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED IN THE IMPLEMENTATION OF ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE MAINTAINED AS PROOF ACKNOWLEDGING THAT THEY REVIEWED AND UNDERSTAND THE CONDITIONS AND RESPONSIBILITIES OF THE PLAN. THE DOCUMENT SHALL BE CREATED BY THE CONTRACTOR SIGNED PRIOR TO THE START OF CONSTRUCTION.

**DISPOSAL OF SOLID/SANITARY/TOXIC WASTE:**  
SOLID, SANITARY, AND TOXIC WASTE MUST BE DISPOSED OF IN A PROPER MANNER IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS

IT IS PROHIBITED TO BURN, BURY, OR POUR OUT ONTO THE GROUND OR INTO A STORM SEWER WATER CONVEYANCE ANY SOLVENTS, PAINTS, STAINS, GASOLINE, DIESEL FUEL, USED MOTOR OIL, HYDRAULIC FLUID, ANTIFREEZE, CEMENT CURING COMPOUNDS, AND OTHER SUCH SOLID AND HAZARDOUS WASTES.

ANY RINSE WATERS OF SUCH MATERIAL ARE ALSO PROHIBITED FROM BEING PLACED WHERE THEY MAY ENTER DRAINAGEWAYS.

WASH OUT OF CEMENT TRUCKS SHOULD OCCUR IN A DIKED, DESIGNATED AREA, AWAY FROM ANY CONVEYANCE CHANNEL.

COORDINATE WASH OUT AREA WITH CONSTRUCTION MANAGER.

**CONTRACTORS RESPONSIBILITIES:**  
THIS PLAN MUST BE POSTED ON-SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON-SITE AT ALL TIMES.

DETAILS HAVE BEEN PROVIDED ON THE PLANS IN AN EFFORT TO HELP THE CONTRACTOR PROVIDE EROSION AND SEDIMENTATION CONTROL. THE DETAILS SHOWN ON THE PLAN SHALL BE CONSIDERED A MINIMUM. ADDITIONAL OR ALTERNATE DETAILS MAY BE FOUND IN THE ODNR MANUAL "RAINWATER AND LAND DEVELOPMENT". THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING NECESSARY AND ADEQUATE MEASURES FOR PROPER CONTROL OF EROSION AND SEDIMENT RUNOFF FROM THE SITE ALONG WITH PROPER MAINTENANCE AND INSPECTION IN COMPLIANCE WITH THE NPDES GENERAL PERMIT FOR STORM DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES.

THE CONTRACTOR SHALL PROVIDE A SCHEDULE OF OPERATIONS TO THE OWNER. THE SCHEDULE SHOULD INCLUDE A SEQUENCE OF THE PLACEMENT OF THE SEDIMENTATION AND EROSION CONTROL MEASURES THAT PROVIDES FOR CONTINUAL PROTECTION OF THE SITE THROUGHOUT EARTH MOVING ACTIVITIES.

PRIOR TO CONSTRUCTION OPERATIONS IN A PARTICULAR AREA, ALL SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE IN PLACE. FIELD ADJUSTMENTS WITH RESPECT TO LOCATIONS AND DIMENSIONS MAY BE MADE BY THE ENGINEER AND/OR THE OHIO EPA.

THE CONTRACTOR SHALL PLACE INLET PROTECTION FOR THE SEDIMENTATION CONTROL IMMEDIATELY AFTER CONSTRUCTION OF THE CATCH BASINS OR INLETS WHICH ARE NOT TRIBUTARY TO A SEDIMENT BASIN OR DAM.

IT MAY BECOME NECESSARY TO REMOVE PORTIONS OF SEDIMENTATION CONTROLS DURING CONSTRUCTION TO FACILITATE THE GRADING OPERATIONS IN CERTAIN AREAS. HOWEVER, THE CONTROLS SHALL BE REPLACED UPON GRADING OR DURING ANY INCLEMENT WEATHER.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT OFFSITE TRACKING OF SEDIMENTS BY VEHICLES AND EQUIPMENT IS MINIMIZED. ALL SUCH OFFSITE SEDIMENT SHALL BE CLEANED UP DAILY.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT NO SOLID OR LIQUID WASTE IS DISCHARGED INTO STORM WATER RUNOFF. UNTREATED SEDIMENT-LADEN RUNOFF SHALL NOT FLOW OFFSITE WITHOUT BEING DIRECTED THROUGH A CONTROL PRACTICE.

CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE INTO OR ALONG SIDE RIVERS, STREAMS, CREEKS, NATURAL OR MAN-MADE CHANNELS OR SWALES LEADING THERETO. CONCRETE WASH WATER AND SURPLUS CONCRETE SHALL BE CONFINED TO APPROVED AREAS. AFTER SOLIDIFYING THESE WASTED MATERIALS SHALL BE REMOVED FROM THE SITE.

POST FLOOD EVENT SITE MAINTENANCE:

FOLLOWING A FLOOD EVENT, INSPECT ALL MECHANICAL EQUIPMENT THAT ARE LOCATED ON THE SITE FOR ANY DAMAGES. WALLS AND WALL PENETRATIONS SHALL ALSO BE CHECKED FOR CRACKS AND LEAKS AND REPAIRED AS NECESSARY. ALL DEBRIS THAT MAY HAVE ACCUMULATED ALONG THE SITE SHALL BE GATHERED AND DISPOSED OF ACCORDING TO CITY STANDARDS. CHECK AND ENSURE THAT ALL DRAINAGE STRUCTURES ARE IN STANDARD OPERATION AND REPAIR ANY DAMAGES OR CLOGS THAT MAY HAVE OCCURRED DURING FLOODING.

STABILIZATION PROCEDURES

CONTRACTOR SHALL BE RESPONSIBLE TO KEEP A RECORD OF DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN EARTH DISTURBANCE HAS TEMPORARILY OR PERMANENTLY CEASED ON A PORTION OF THE SITE, AND WHEN STABILIZATION MEASURES HAVE BEEN INITIATED. THE LIMITS OF SEEDING AND MULCHING ARE AS SHOWN WITHIN THE PLAN AS INDICATED BY THE LIMITS OF DISTURBANCE. ALL AREAS NOT DESIGNATED TO BE SEEDED SHALL REMAIN UNDER NATURAL GROUND COVER. THOSE AREAS DISTURBED OUTSIDE THE SEEDING LIMITS SHALL BE SEEDED AND MULCHED AT THE CONTRACTOR'S EXPENSE.

TEMPORARY STABILIZATION

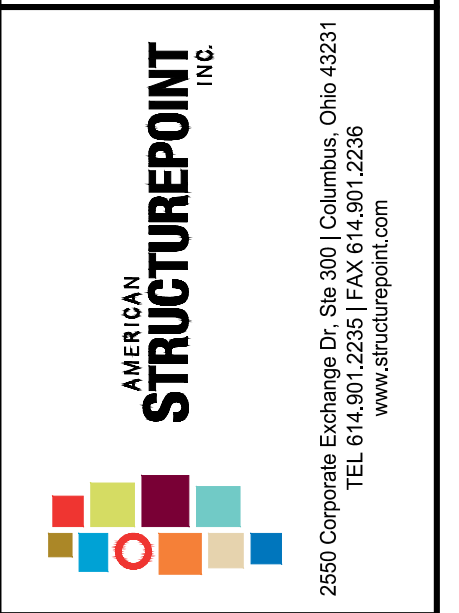
CONTRACTOR TO FOLLOW REGULATIONS FOR TEMPORARY STABILIZATION SET FORTH IN OHIO EPA RAINWATER AND LAND DEVELOPMENT MANUAL CHAPTER 7 SECTION 8.

PERMANENT STABILIZATION

CONTRACTOR TO FOLLOW REGULATIONS FOR TEMPORARY STABILIZATION SET FORTH IN OHIO EPA RAINWATER AND LAND DEVELOPMENT MANUAL CHAPTER 7 SECTION 10.

PERMANENT SEEDING			
SEED MIX	SEEDING RATE		NOTES
	LBS/ACRE	LB/1,000 SF	
GENERAL USE			
CREEPING RED FESCUE	20-40	1/2-1	FOR CLOSE MOWING & FOR WATERWAYS WITH <2.0 FT/SEC VELOCITY
RYEGRASS	10-20	1/4-1/2	
KENTUCKY BLUEGRASS	20-40	1/2-1	
TALL FESCUE	40-50	1-1 1/4	
TURF-TYPE (DWARF) FESCUE	90	2 1/4	SPRING, YEARLY FOLLOWING ESTABLISHMENT AND EVERY 4-7 YEARS THEREAFTER
STEEP BANKS OR CUT SLOPES			
TALL FESCUE	40-50	1-1 1/4	
CROWN VETCH	10-20	1/4-1/2	DO NOT SEED LATER THAN AUGUST
TALL FESCUE	20-30	1/2-3/4	
FLAT PEA	20-25	1/2-3/4	DO NOT SEED LATER THAN AUGUST
TALL FESCUE	20-30	1/2-3/4	
ROAD DITCHES AND SWALES			
TALL FESCUE	40-50	1-1 1/4	
TURF TYPE (DWARF) FESCUE	90	2 1/4	FOR SHADED AREAS
KENTUCKY BLUEGRASS	5	0.1	
LAWNS			
KENTUCKY BLUEGRASS	100-120	2	FOR SHADED AREAS
PERENNIAL RYEGRASS		2	
KENTUCKY BLUEGRASS	100-120	2	FOR SHADED AREAS
CREEPING RED FESCUE		1-1/2	
NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED			

TEMPORARY SEEDING			
SEEDING DATES	SPECIES	LB/1,000 SF	PER ACRE
MARCH 1 TO AUGUST 15	OATS	3	4 BUSHEL
	TALL FESCUE	1	40 LB
	ANNUAL RYEGRASS	1	40 LB
	PERENNIAL RYEGRASS	1	40 LB
	TALL FESCUE	1	40 LB
AUGUST 16 TO NOVEMBER 1	ANNUAL RYGRASS	1	40 LB
	RYE	3	2 BUSHEL
	TALL FESCUE	1	40 LB
	ANNUAL RYEGRASS	1	40 LB
	WHEAT	3	2 BUSHEL
	TALL FESCUE	1	40 LB
	ANNUAL RYGRASS	1	40 LB
	PERENNIAL RYEGRASS	1	40 LB
	TALL FESCUE	1	40 LB
	ANNUAL RYGRASS	1	40 LB
NOVEMBER 1 TO SPRING SEEDING	USE MULCH ONLY, SODDING PRACTICES OR DORMANT SEEDING.		
NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED			



PUBLIC STREET, STORM, AND WATER IMPROVEMENTS  
FOR  
AYRSHIRE FARMS  
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
**EROSION & SEDIMENT CONTROL NOTES**

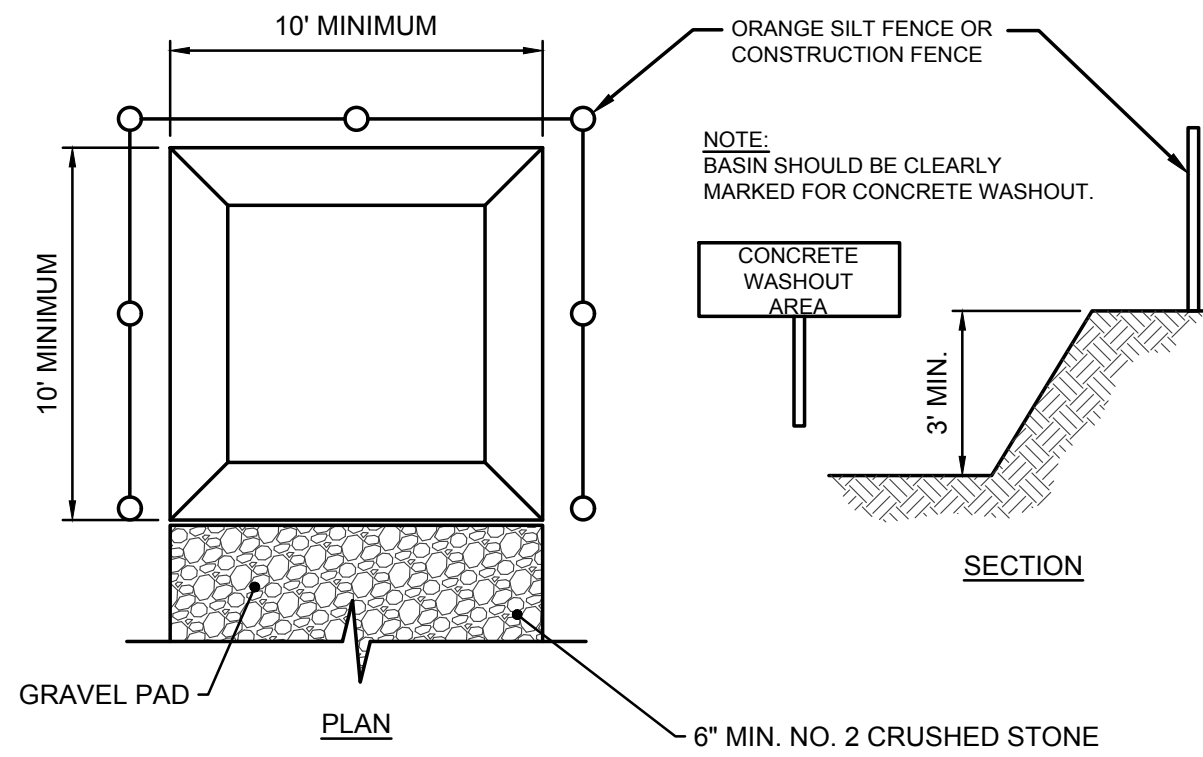
REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	07/30/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

**C801**

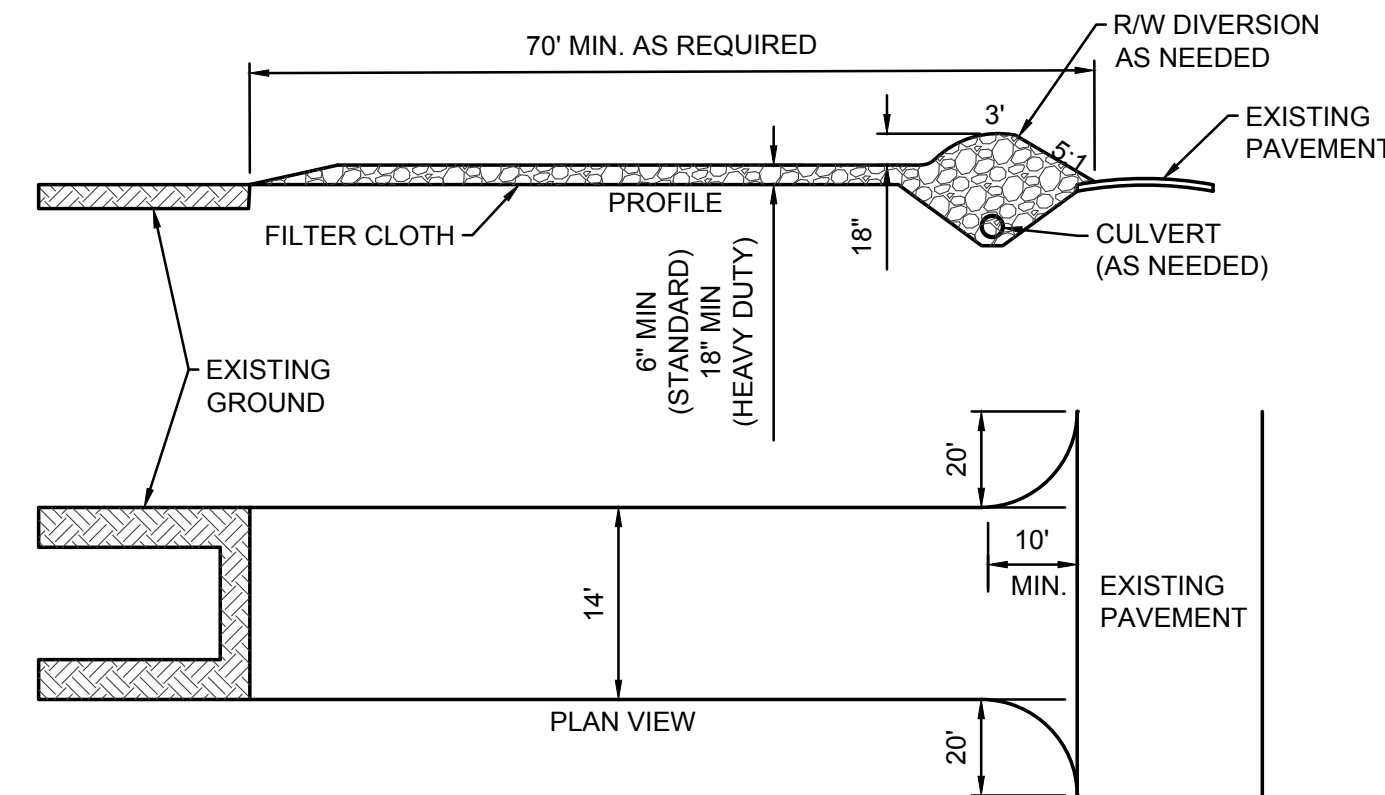
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- NOTE:**
- ACTUAL LAYOUT DETERMINED IN THE FIELD, BY CONTRACTOR.
  - THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

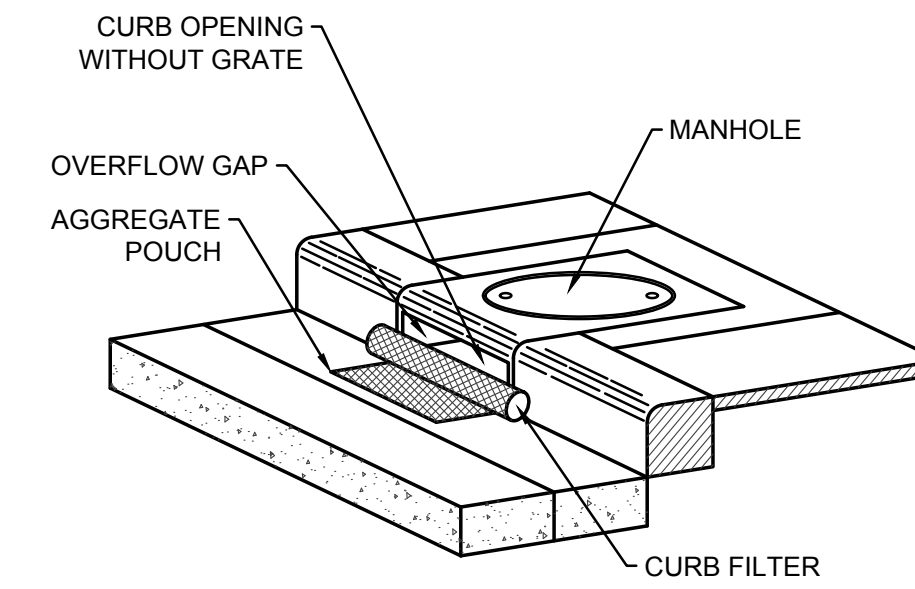
**A CONCRETE WASHOUT AREA**  
NOT TO SCALE



**CONSTRUCTION SPECIFICATIONS:**

- STONE SIZE—ODOT # 2 (1.5-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
  - LENGTH—THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS).
  - THICKNESS -THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
  - WIDTH -THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS
  - GEOTEXTILE -A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:
- | GEOTEXTILE SPECIFICATION FOR CONSTRUCTION ENTRANCE |                           |
|--|---------------------------|
| MINIMUM TENSILE STRENGTH                           | 200 lbs                   |
| MINIMUM PUNCTURE STRENGTH                          | 80 psi                    |
| MINIMUM TEAR STRENGTH                              | 50 lbs                    |
| MINIMUM BURST STRENGTH                             | 320 psi                   |
| MINIMUM ELONGATION                                 | 20%                       |
| EQUIVALENT OPENING SIZE                            | EOS<0.6 mm                |
| PERMITIVITY  | 1x10 <sup>-3</sup> cm/sec |
- TIMING—THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
  - CULVERT -A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
  - WATER BAR -A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
  - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR PREVENT FLOWING SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
  - CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY AREAS. WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
  - REMOVAL—THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

**B CONSTRUCTION ENTRANCE**  
NOT TO SCALE



**INSTALLATION:**

- STAND GRATE ON END. SLIDE THE BEAVER DAM BAG ON WITH DAM ON TOP OF THE GRATE. PULL ALL EXCESS DOWN.
- LAY UNIT ON ITS SIDE. CAREFULLY TUCK FLAP IN. PRESS VELCRO STRIPS TOGETHER.
- INSTALL THE UNIT MAKING SURE FRONT EDGE OF GRATE IS INSERTED IN FRAME FIRST, THEN LOWER BACK INTO PLACE.
- PRESS VELCRO DOTS TOGETHER WHICH ARE LOCATED UNDER LIFTING STRAPS. THIS ENSURES STRAPS REMAIN FLUSH WITH GUTTER.

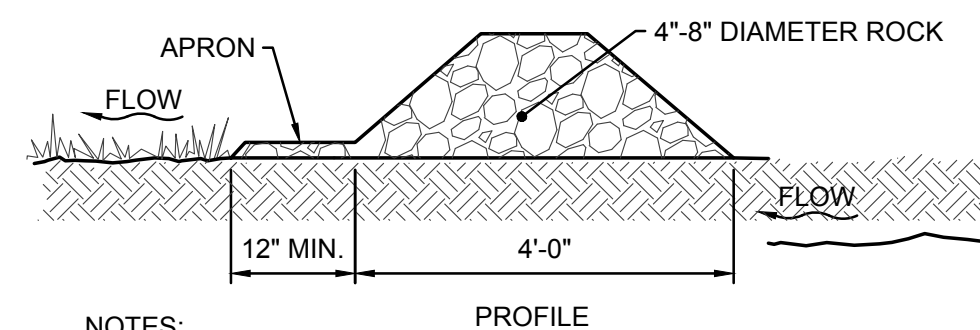
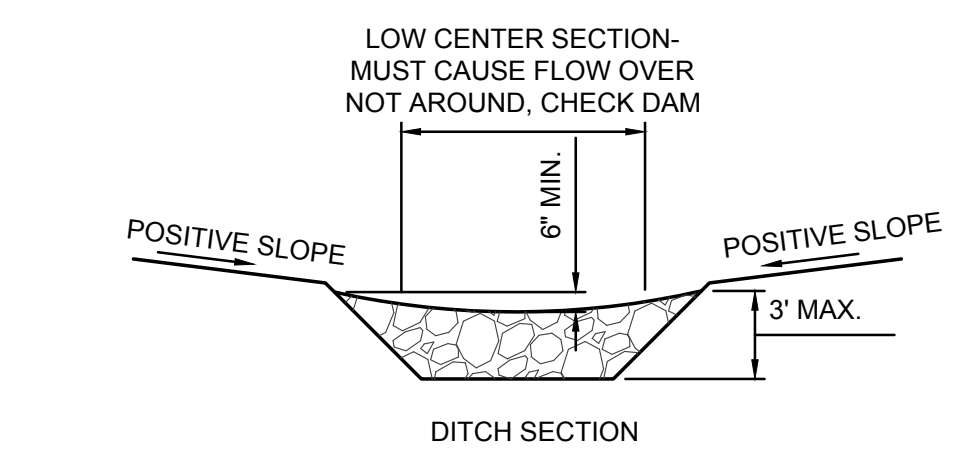
**MAINTENANCE:**

- WITH A STIFF BRISTLE BROOM, SWEEP SILT AND OTHER DEBRIS OFF SURFACE AFTER EACH STORM EVENT.

DANDY BAG WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS

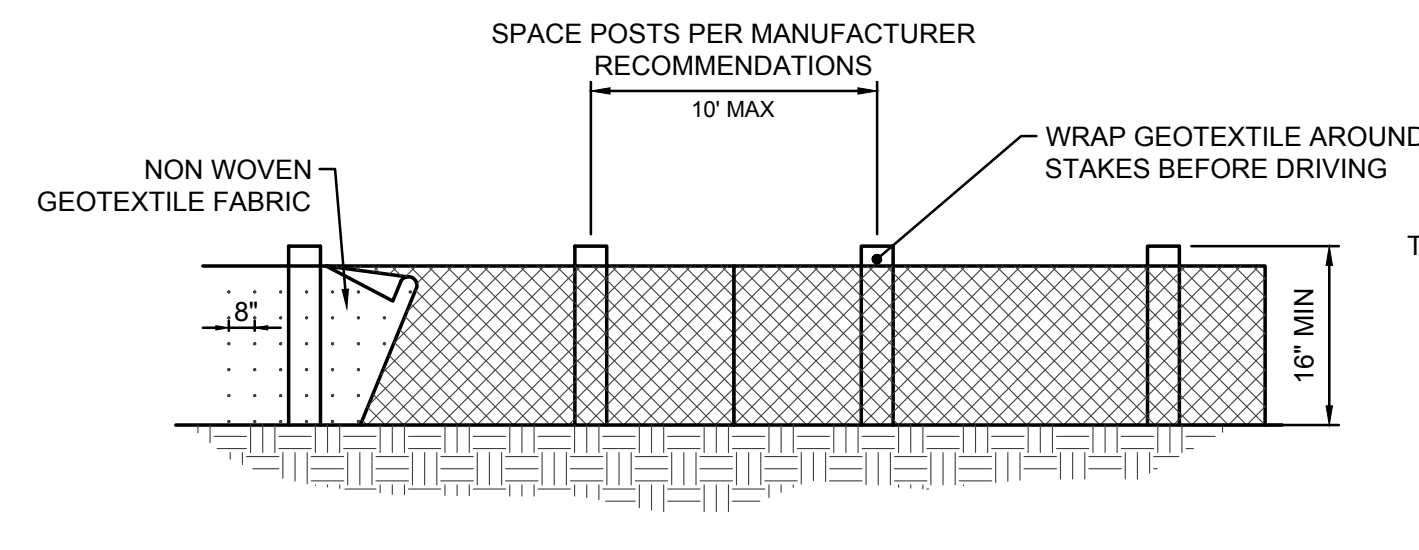
GRAB TENSILE STRENGTH	ASTM D 4632
GRAB TENSILE ELONGATION	ASTM D 4632
PUNCTURE STRENGTH	ASTM D 4833
MULLEN BURST STRENGTH	ASTM D 3786
TRAPEZOID TEAR STRENGTH	ASTM D 4533
UV RESISTANCE	ASTM D 4355
APPARENT OPENING SIZE	ASTM D 4751
FLOW RATE	ASTM D 4491
PERMITIVITY	ASTM D 4491

**C BEAVER DAM INLET PROTECTION**  
NOT TO SCALE



- NOTES:**
- CONSTRUCT CHECK DAM SUCH THAT THE CENTER IS 6" LOWER THAN THE OUTER EDGES.
  - SPACE CHECK DAMS SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.
  - SIDE SLOPES SHALL BE A MINIMUM OF 2:1

**D ROCK CHECK DAM**  
NOT TO SCALE



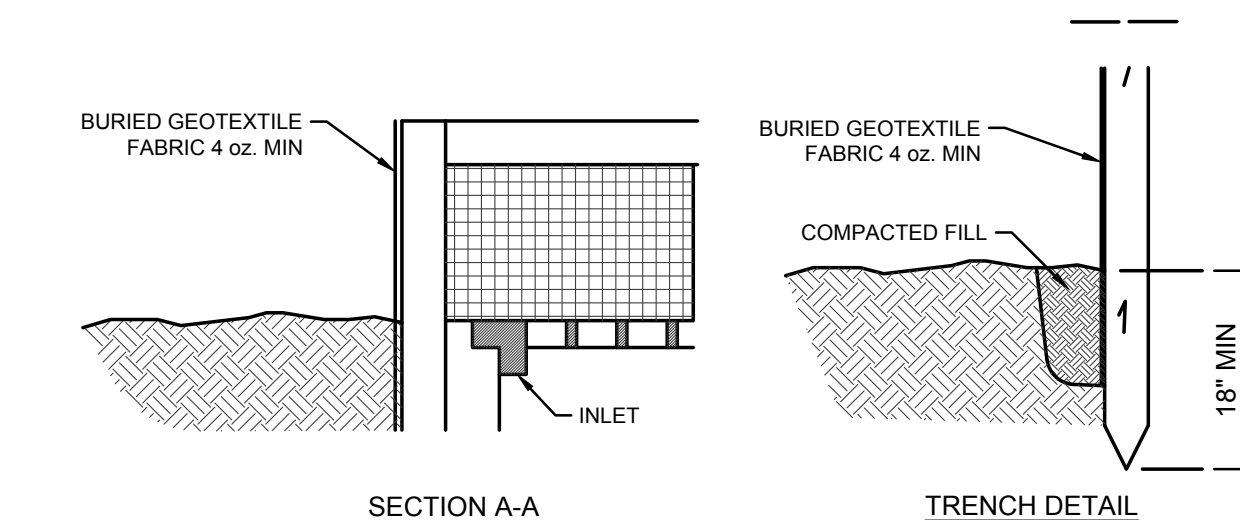
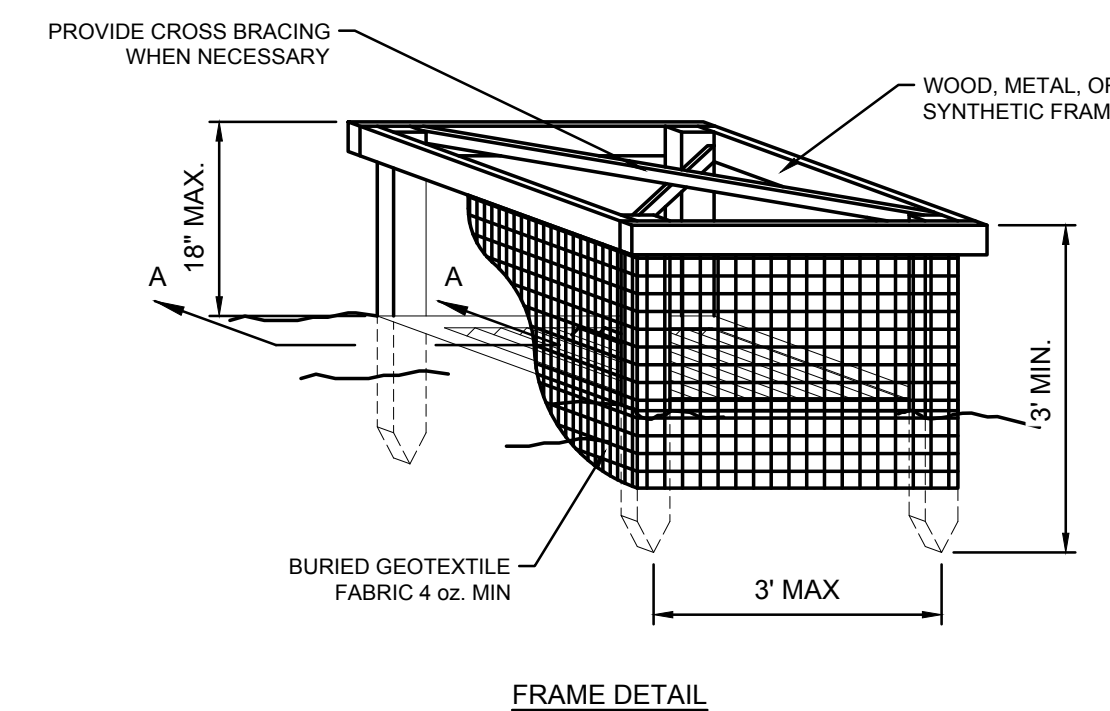
**NOTES:**

- FENCE POST SHALL BE A MINIMUM LENGTH OF 32 INCHES LONG PLUS BURIAL DEPTH, COMPOSED OF NOMINAL DIMENSIONED 2x2 INCH HARDWOOD OF SOUND QUALITY. ALTERNATELY POST MATERIAL SHALL BE STEEL OR SYNTHETIC AND SHALL BE OF SUFFICIENT STRENGTH TO RESIST DAMAGE DURING INSTALLATION, TO SUPPORT APPLIED LOADS, AND SO THE GEOTEXTILE CAN BE ADEQUATELY SECURED TO POST
- FABRIC SHALL BE A NEEDLE PUNCHED NON-WOVEN GEOTEXTILE FABRIC CONSISTING OF STRONG, ROT RESISTANT, MATERIALS RESISTANT TO DETERIORATION FROM ULTRAVIOLET AND HEAT EXPOSURE.
- MINIMUM 8" FABRIC BURY REQUIRED.
- ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
- THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.

**E SILT FENCE**  
NOT TO SCALE

- SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
- SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY HALF THE HEIGHT OF THE SILT FENCE.

MINIMUM CRITERIA FOR SILT FENCE FABRIC (ODOT, 2002)		
MINIMUM TENSILE STRENGTH	120 lbs (535 N)	ASTM D 4632
MAXIMUM ELONGATION AT 60 LBS	50%	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 lbs (220 N)	ASTM D 4833
MINIMUM TEAR STRENGTH	40 lbs (180 N)	ASTM D 4533
APPARENT OPENING SIZE	≤ 0.84 mm	ASTM D 4751
MINIMUM PERMITIVITY	1x10 <sup>-2</sup> sec. <sup>-1</sup>	ASTM D 4491
UV EXPOSURE STRENGTH RETENTION	70%	ASTM D 4355



- NOTE:**
- PROVIDE FOR INLETS NOT LOCATED IN PAVEMENT

**F SILT FENCE INLET PROTECTION**  
NOT TO SCALE



**ROCKFORD HOMES**



**AMERICAN STRUCTUREPOINT INC.**

2550 Corporate Exchange Dr., Ste 400 | Columbus, Ohio 43221  
TEL: 614.222.2226  
WWW.STRUCTUREPOINT.COM

PUBLIC STREET, STORM, AND WATER IMPROVEMENTS

FOR

**AYRSHIRE FARMS**

CITY OF PULPIN, FRANKLIN COUNTY, OHIO

**EROSION & SEDIMENT CONTROL DETAILS**

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE: 07/30/2021

DRAWN BY: ALH

CHECKED BY: JRP

JOB NUMBER: 2019.01745

C802

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GENERAL NOTES	C002
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SANITARY SEWER PLAN & PROFILE	C101
SANITARY SEWER PLAN & PROFILE	C102

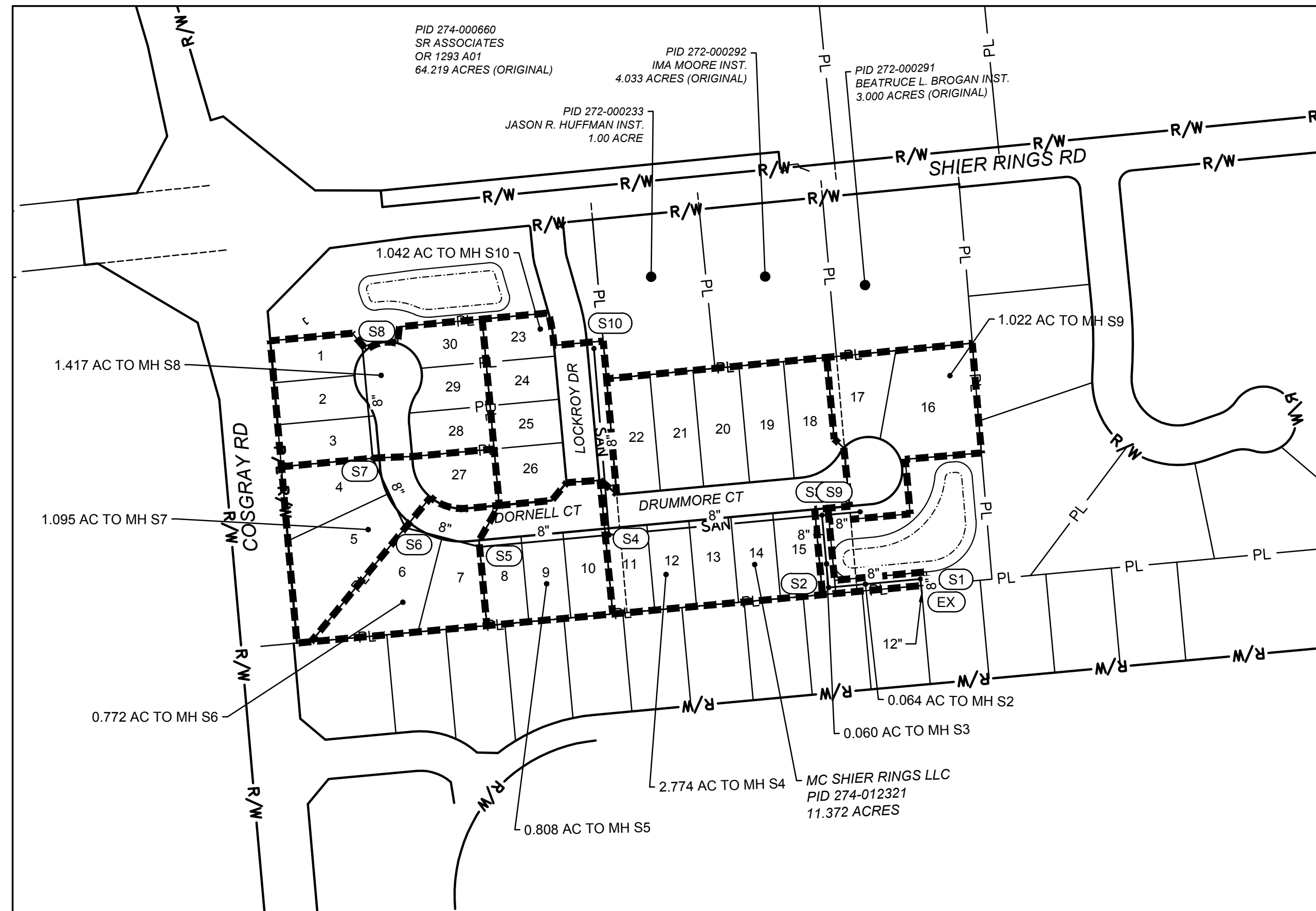
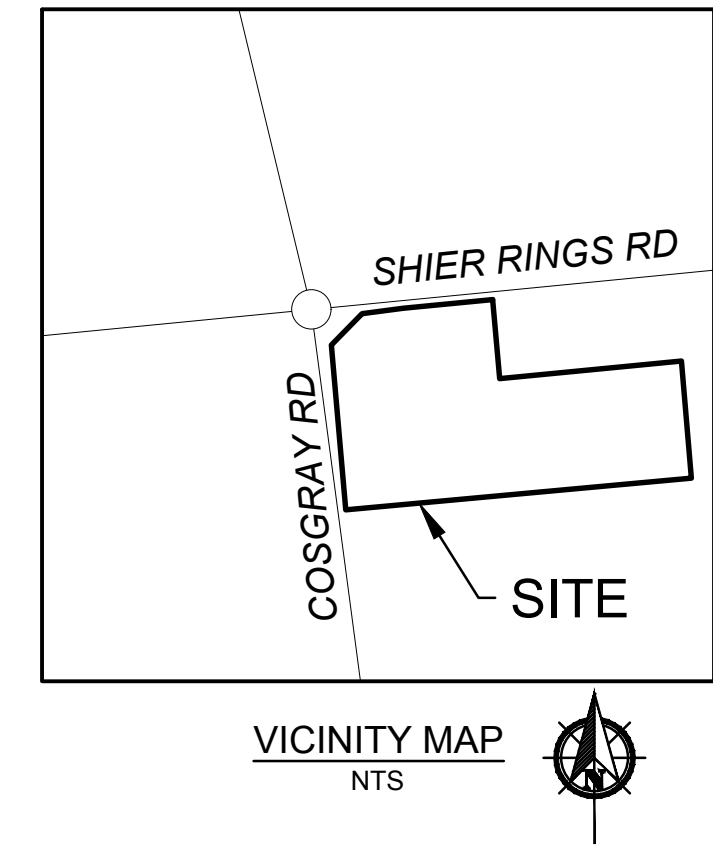
PUBLIC SANITARY IMPROVEMENTS

# AYRSHIRE FARMS

## SHIER RINGS ROAD

### CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

## 2021

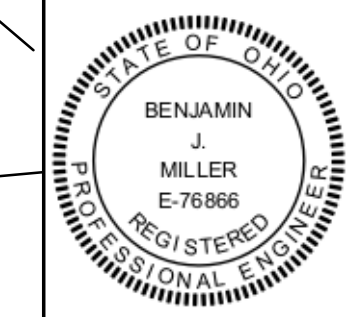


INDEX MAP  
1" = 150'

**STANDARD CONSTRUCTION DRAWINGS**

THE STANDARD CONSTRUCTION DRAWINGS LISTED ON THESE PLANS SHALL BE CONSIDERED A PART THEREOF.

CITY OF DUBLIN (2020 EDITION)	CITY OF COLUMBUS	
SA-01	AA-S102	AA-S160
SA-02	AA-S106	AA-S161
SA-03	AA-S107	AA-S162
SA-04	AA-S111	
	AA-S117	
	AA-S119	
	AA-S149	
	AA-S150	



*[Signature]*  
REGISTERED ENGINEER E-76866  
DATE: 07/16/2021

**APPROVED:**

CITY OF DUBLIN:  
SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT AND DOES NOT CONSTITUTE ASSURANCE TO OPERATE AS INTENDED. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL CIVIL ENGINEER PREPARING THE PLANS.

CITY ENGINEER, CITY OF DUBLIN, OHIO  
PAUL A. HAMMERSMITH, P.E. DATE

**CITY OF COLUMBUS:**

CITY OF COLUMBUS SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLAN. APPROVAL FOR SANITARY SEWERS ONLY.

APPROVAL ON THE PART OF THE CITY OF COLUMBUS IS GIVEN PURSUANT TO THE PROVISIONS OF THE SEWER SERVICE AGREEMENT WITH CITY OF DUBLIN ON 12/14/92, ORDINANCE NO. 2692-92, AND ALL SUBSEQUENT AMENDMENTS THEREOF.

SANITARY SEWER MEETS OR EXCEEDS CITY OF COLUMBUS DESIGN STANDARDS (INCLUDING PER CAPITA FLOW, PEAKING FACTOR, AND I/I ALLOWANCE) AND MATERIAL SPECIFICATIONS.

ADMINISTRATOR, DIVISION OF SEWERAGE & DRAINAGE  
CITY OF COLUMBUS, OHIO DATE

DIRECTOR, DEPARTMENT OF PUBLIC UTILITIES  
CITY OF COLUMBUS, OHIO DATE

**BASIS OF BEARING**  
BEARINGS DESCRIBED HEREON ARE BASED ON NORTH 84 DEGREES 26 MINUTES 31 SECONDS EAST, THE CENTERLINE OF RIGHT-OF-WAY FOR SHIER RINGS ROAD, MEASURED FROM GRID NORTH, REFERENCED TO THE OHIO STATE PLANE COORDINATE SYSTEM (SOUTH ZONE) AND THE NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT), AS ESTABLISHED UTILIZING A GPS SURVEY AND AN NGS OPUS SOLUTION.

**ELEVATION DATUM**  
ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, AS ESTABLISHED UTILIZING A LEVEL CIRCUIT ORIGINATING ON V12 "RESET" (CP 1003).

**BENCHMARKS**

CP1003  
V12 "RESET". BRASS SISK SET IN THE TOP OF A CONCRETE MONUMENT ON THE WEST SIDE OF COSGRAY ROAD, 0.48 MILES SOUTH OF SHIER-RINGS ROAD, 550 FEET NORTH OF THE CENTER OF THE SOUTH DRIVE TO RESIDENCE #5713, 27.5 FEET WEST OF ROAD MONUMENT FCGS 2210, 3 FEET EAST OF FENCE LINE, 2 FEET EAST OF A WITNESS POST, 1 INCH BELOW THE GROUND.

ELEVATION = 944.56

**TBM 100**  
"X" ON WEST ARROW BOLT OF 3RD FIRE HYDRANT SOUTH OF RAB, EAST SIDE OF COSGRAY  
ELEVATION = 944.88

**TBM 101**  
"X" ON FIRE HYDRANT BOLT ON WEST SIDE OF FIRE HYDRANT AT SOUTHEAST CORNER OF RAB.  
ELEVATION = 947.48

**OWNER/ DEVELOPER**  
MC SHIER RINGS, LLC  
999 POLARIS PARKWAT SUITE 200  
COLUMBUS, OHIO 43240  
CONTACT: MR. MICHAEL G. KING  
PHONE: 614-785-0015  
EMAIL: MKING@ROCKFORDHOMES.NET

**ENGINEER**  
AMERICAN STRUCTUREPOINT  
2550 CORPORATE EXCHANGE DRIVE, SUITE 300  
COLUMBUS, OHIO 43235  
CONTACT:  
PHONE: 614-901-2235  
EMAIL: @STRUCTUREPOINT.COM

**LANDSCAPE ARCHITECT**  
POD DESIGN  
100 NORTHWOOD BLVD, SUITE A  
COLUMBUS, OHIO 43235  
CONTACT: TODD FOLEY  
PHONE: (614) 360-3055  
EMAIL: TFOLEY@PODDESIGN.NET



PUBLIC SANITARY IMPROVEMENTS  
FOR  
**AYRSHIRE FARMS**  
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
**TITLE SHEET & TRIBUTARY MAP**

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	07/09/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

**C001**



PLOT SCALE: 1"=100' DATE: 7/12/21 - 6:56 PM EDITED BY: JRPERRY DRAWING FILE: 0:201901745.D DRAWINGS\CIVIL\CONSTRUCTION\DOCUMENTS\SANITARY\2019.01745.CE.TS.DWG

GENERAL NOTES

1. CITY OF COLUMBUS AND OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITIONS, AND ANY SUPPLEMENTS THERETO (HEREAFTER REFERRED TO AS STANDARD SPECIFICATIONS), SHALL GOVERN ALL CONSTRUCTION ITEMS UNLESS OTHERWISE NOTED. IF A CONFLICT BETWEEN SPECIFICATIONS IS FOUND, THE MORE STRICT SPECIFICATION WILL APPLY AS DECIDED BY THE CITY ENGINEER. ITEM NUMBERS LISTED REFER TO CITY OF COLUMBUS ITEM NUMBERS UNLESS OTHERWISE NOTED.

2. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION THAT ARE NOT SPECIFIED HEREIN. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR SAFETY ON THE WORK SITE, OR FOR FAILURE BY THE CONTRACTOR TO PERFORM WORK ACCORDING TO CONTRACT DOCUMENTS.

3. THE DEVELOPER OR CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO OHIO EPA PERMITS TO INSTALL (PTI) AND NOTICES OF INTENT (NOI), BUILDING PERMITS, ETC.

4. THE CONTRACTOR SHALL NOTIFY THE CITY OF DUBLIN DIVISION OF ENGINEERING IN WRITING AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.

5. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970. THE CONTRACTOR SHALL EXERCISE PRECAUTION ALWAYS FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT SHALL ALSO BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, INCLUDING THE REQUIREMENTS FOR CONFINED SPACES PER 29 CFR 1910.146.

6. FOLLOWING COMPLETION OF CONSTRUCTION OF THE SITE IMPROVEMENTS AND BEFORE REQUESTING OCCUPANCY, A PROOF SURVEY SHALL BE PROVIDED TO THE DIVISION OF ENGINEERING THAT DOCUMENTS "AS-BUILT" ELEVATIONS, DIMENSIONS, SLOPES AND ALIGNMENTS OF ALL ELEMENTS OF THIS PROJECT. THE PROOF SURVEY SHALL BE PREPARED, SIGNED AND SUBMITTED BY THE PROFESSIONAL ENGINEER WHO SEALED THE CONSTRUCTIONS DRAWINGS.

7. THE CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITY TO PUBLIC RIGHT-OF-WAY AND AREAS DEFINED AS PERMANENT AND/OR TEMPORARY CONSTRUCTION EASEMENTS, UNLESS OTHERWISE AUTHORIZED BY THE CITY ENGINEER.

8. THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS, IN CASES OF WILLFUL OR CARELESS DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATIONS. RESETTING OF MARKERS SHALL BE PERFORMED BY AN OHIO PROFESSIONAL SURVEYOR AS APPROVED BY THE CITY ENGINEER.

9. NON-RUBBER TIRE VEHICLES SHALL NOT BE MOVED ON OR ACROSS PUBLIC STREETS OR HIGHWAYS WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER.

10. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN EXISTED BEFORE CONSTRUCTION. DRAINAGE DITCHES OR WATERCOURSES THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE GRADES AND CROSS-SECTIONS THAT EXISTED BEFORE CONSTRUCTION.

11. TRACKING OR SPILLING MUD, DIRT OR DEBRIS UPON STREETS, RESIDENTIAL OR COMMERCIAL DRIVES, SIDEWALKS OR BIKE PATHS IS PROHIBITED ACCORDING TO SECTION 97.38 OF THE DUBLIN CODE OF ORDINANCES. ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE CITY. IF THE CONTRACTOR FAILS TO REMOVE SAID MUD, DIRT, DEBRIS, OR SPILLAGE, THE CITY RESERVES THE RIGHT TO REMOVE THESE MATERIALS AND CLEAN AFFECTED AREAS, THE COST OF WHICH SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

12. DISPOSAL OF EXCESS EXCAVATION WITHIN SPECIAL FLOOD HAZARD AREAS (100-YEAR FLOODPLAIN) IS NOT PERMITTED.

13. ALL SIGNS, LANDSCAPING, STRUCTURES OR OTHER APPURTENANCES WITHIN RIGHT-OF-WAY DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

14. ALL FIELD TILE BROKEN OR ENCOUNTERED DURING EXCAVATION SHALL BE REPLACED OR REPAIRED AND CONNECTED TO THE PUBLIC STORM SEWER SYSTEM AS DIRECTED BY THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

15. ALL PRECAST CONCRETE PRODUCTS SHALL BE INSPECTED AT THE LOCATION OF MANUFACTURE. APPROVED PRECAST CONCRETE PRODUCTS WILL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT INSPECTION HAS BEEN CONDUCTED BY THE CITY OF COLUMBUS. PRECAST CONCRETE PRODUCTS WITHOUT PROOF OF INSPECTION SHALL NOT BE APPROVED FOR INSTALLATION.

16. BACKFILL WITHIN A 1:1 INFLUENCE LINE OF EXISTING STRUCTURES (HOUSES, GARAGES, ETC.) OR PUBLIC INFRASTRUCTURE (PAVEMENT, CURBS, SIDEWALKS, BIKE PATHS, ETC.) SHALL BE COMPACTED GRANULAR BACKFILL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR FLOWABLE CDF, TYPE II ACCORDING TO ITEM 613. ITEM 911 OF THE STANDARD SPECIFICATIONS SHALL BE USED ELSEWHERE.

17. THE CONTRACTOR SHALL SUBMIT A COPY OF THE APPROVED CONSTRUCTION DRAWINGS AND A LIST OF PROPOSED PRECAST CONCRETE PRODUCT MANUFACTURERS TO THE CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION BEFORE COMMENCING CONSTRUCTION.

SEND THE INFORMATION TO THE FOLLOWING ADDRESS:

CONSTRUCTION INSPECTION DIVISION  
CITY OF COLUMBUS 1800 EAST 17TH AVENUE COLUMBUS, OHIO 43219

SEND A COPY OF THE TRANSMITTAL LETTER TO THE FOLLOWING ADDRESS:

DIVISION OF ENGINEERING  
CITY OF DUBLIN  
5800 SHIER RINGS ROAD DUBLIN, OHIO 43016

18. ALL TRENCHES WITHIN PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS OR SECURELY PLATED DURING NONWORKING HOURS. TRENCHES OUTSIDE THESE AREAS SHALL BE BACKFILLED OR SHALL BE PROTECTED BY APPROVED TEMPORARY FENCING OR BARRICADES DURING NONWORKING HOURS. CLEAN UP SHALL FOLLOW CLOSELY BEHIND THE TRENCHING OPERATION.

19. ALL TREES WITHIN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. TREES TO BE PRESERVED SHALL BE PROTECTED WITH HIGH VISIBILITY FENCING PLACED A MINIMUM 15 FEET FROM THE TREE TRUNK. TREES 6 - INCHES OR GREATER AT DBH (DIAMETER BREST HEIGHT) MUST BE PROTECTED WITH FENCING PLACED AT THE CRITICAL ROOT ZONE OR 15 FEET, WHICHEVER IS GREATER. TREES NOT INDICATED ON THE APPROVED CONSTRUCTION DRAWINGS FOR REMOVAL MAY NOT BE REMOVED WITHOUT PRIOR APPROVAL OF THE DIVISION OF ENGINEERING.

20. CONDUIT MUST BE DIRECTIONALLY BORED ACROSS STREETS INSTEAD OF OPEN CUT, UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER. USE OF PNEUMATIC AIR RAM DEVICES IS NOT PERMITTED. PERMITS TO CONSTRUCT IN THE RIGHT-OF-WAY OF EXISTING STREETS MUST BE OBTAINED FROM THE CITY OF DUBLIN DIVISION OF ENGINEERING BEFORE COMMENCING CONSTRUCTION. SHOULD OPEN CUTTING OF EXISTING PAVEMENT BE PERMITTED,

CONTROLLED DENSITY BACKFILL (TYPE II) SHALL BE USED IN PLACE OF COMPACTED GRANULAR BACKFILL, ACCORDING TO ITEM 613 OF THE STANDARD SPECIFICATIONS.

21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF TRENCHES WITHIN THE RIGHT-OF-WAY AND PUBLIC EASEMENTS FOR A PERIOD OF ONE YEAR FROM THE FINAL ACCEPTANCE OF THE WORK, AND SHALL MAKE ANY NECESSARY REPAIRS AT NO COST TO THE CITY.

22. PAVEMENTS SHALL BE CUT IN NEAT, STRAIGHT LINES THE FULL DEPTH OF THE EXISTING PAVEMENT, OR AS REQUIRED BY THE CITY ENGINEER. PAVEMENT REPLACEMENT SHALL BE CONDUCTED ACCORDING TO CITY OF COLUMBUS STANDARD DRAWING 1441 DR. A AND APPLICABLE CITY OF DUBLIN STANDARD DRAWINGS. THE REPLACEMENT OF DRIVEWAYS, HANDICAPPED RAMPS, SIDEWALKS, BIKE PATHS, PARKING LOT PAVEMENT, ETC. SHALL BE PROVIDED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS AND CITY OF DUBLIN STANDARD CONSTRUCTION DRAWINGS.

23. TREE TRIMMING WITHIN THE CONSTRUCTION ZONE IS TO BE COMPLETED BY A CERTIFIED ARBORIST, AT THE COMPLETION OF THE PROJECT, THE ARBORIST IS TO RETURN AND TRIM ANY BROKEN BRANCHES AS NEEDED.

24. ANY MODIFICATION TO THE WORK SHOWN ON DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE CITY ENGINEER, CITY OF DUBLIN.

25. ALL INLETS SHALL BE CHANNELIZED.

26. PARK AREAS SHALL BE FINE-GRADED AND SEEDED WITH THE FOLLOWING MIXTURE:  
IMPROVED KENTUCKY BLUEGRASS: 40% OF WEIGHT (2 VARIETIES IN EQUAL RATS) IMPROVED PERENNIAL RYE: 60% OF WEIGHT (2 VARIETIES IN EQUAL PARTS) GERMINATION RATE: 85% APPLICATION RATE: 7 LBS PER 1000 SQ FT OR AS DIRECTED BY THE DIVISION OF PARKS AND RECREATION, CITY OF DUBLIN, OHIO.

27. TRAFFIC CONTROL AND OTHER REGULATORY SIGNS SHALL BE TYPE S WITH A SQUARE POST ANCHOR BASE INSTALLATION AND MEET ALL REQUIREMENTS OF ODOT TC-41.20 AND APPLICABLE CITY OF DUBLIN SPECIFICATIONS.  
28. STREET SIGNS SHALL MEET ALL CITY OF DUBLIN SPECIFICATIONS WITH LETTERING COLORED IN WHITE DISPLAYED OVER A BROWN BACKGROUND. SIGN TUBING SHALL BE BROWN IN COLOR AND CONFORM WITH THE TYPE S, SQUARE POST ANCHOR BASE INSTALLATION REQUIREMENTS OF ODOT TC-41.20.

UTILITIES

1. THE FOLLOWING UTILITIES ARE KNOWN TO BE LOCATED WITHIN THE LIMITS OF THIS PROJECT:  
(SEE UTILITY PROVIDERS ON TITLE SHEET C001)

2. THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT TO OHIO UTILITIES PROTECTION SERVICE (TELEPHONE NUMBER 800-362-2764), PRODUCER'S UNDERGROUND PROTECTION SERVICE (TELEPHONE NUMBER 614-587-0486), AND TO OWNERS OF UNDERGROUND UTILITIES THAT ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE. NOTICE SHALL BE GIVEN AT LEAST 2 WORKING DAYS BEFORE START OF CONSTRUCTION.

3. THE IDENTITY AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE CITY OF DUBLIN AND THE CITY ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR DEPTHS OF UNDERGROUND FACILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF THE SAME AND FOR ANY RESULTING CONTINGENT DAMAGE.

4. LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

5. WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE CITY ENGINEER.

6. PUBLIC STREET LIGHTING MAY BE IN THE VICINITY OF THIS PROJECT. CONTACT THE CITY OF DUBLIN, DIVISION OF ENGINEERING AT 410-4637, TWO DAYS PRIOR TO BEGINNING WORK.

TRAFFIC CONTROL

1. TRAFFIC CONTROL SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR ACCORDING TO OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), CURRENT EDITION.

2. ALL TRAFFIC LANES OF PUBLIC ROADWAYS SHALL BE FULLY OPEN TO TRAFFIC FROM 7:00 AM TO 9:00 AM AND FROM 4:00 PM TO 6:00 PM UNLESS AUTHORIZED DIFFERENTLY BY THE CITY ENGINEER. AT ALL OTHER HOURS THE CONTRACTOR SHALL MAINTAIN MINIMUM ONE-LANE TWO-WAY TRAFFIC. UNIFORMED, OFF-DUTY POLICE OFFICERS SHALL REPLACE FLAGMEN DESIGNATED BY THE OMUTCD, AND SHALL BE PRESENT WHENEVER ONE-LANE, TWO-WAY TRAFFIC CONTROL IS IN EFFECT. POLICE CRUISERS MAY BE REQUIRED AS DIRECTED BY THE CITY ENGINEER.

3. IF THE CITY ENGINEER DETERMINES THAT THE CONTRACTOR IS NOT PROVIDING PROPER PROVISIONS FOR TRAFFIC CONTROL, THE CITY ENGINEER SHALL ASSIGN UNIFORMED, OFF-DUTY POLICE OFFICERS TO THE PROJECT AT NO COST TO THE CITY.

4. STEADY-BURNING, TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT.

5. ACCESS FROM PUBLIC ROADWAYS TO ALL ADJOINING PROPERTIES FOR EXISTING RESIDENTS OR BUSINESSES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT FOR MAIL, PUBLIC WATER AND SANITARY SEWER SERVICE, AND EMERGENCY VEHICLES. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN DETAILING THE PROPOSED MAINTENANCE OF TRAFFIC PROCEDURES, THE TRAFFIC CONTROL PLAN MUST INCORPORATE ANY TRAFFIC CONTROL DETAILS CONTAINED HEREIN. THE TRAFFIC CONTROL PLAN PROPOSED BY THE CONTRACTOR MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.

SANITARY SEWERS

1. CONNECTIONS TO THE SANITARY SEWER WILL BE PERMITTED UPON RECEIVING AN OEPA PERMIT TO INSTALL (PTI), AND UPON RECEIVING A SATISFACTORY LETTER FROM THE DESIGN ENGINEER STATING THAT THE PROJECT HAS BEEN CONSTRUCTED AS PER THE PLANS, AND ALL OF THE CONDITIONS OF THE PTI HAVE BEEN MET. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING ALL REQUIRED OHIO EPA APPROVALS AND PAYING REVIEW FEES.

2. SANITARY SEWAGE COLLECTION SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RULES, REGULATIONS, STANDARDS AND SPECIFICATIONS OF THE CITY OF DUBLIN, OHIO EPA, OHIO DEPARTMENT OF HEALTH AND THE CURRENT EDITION OF THE GREAT LAKES-UPPER MISSISSIPPI RIVER BOARD (TEN STATES) - RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES.

3. THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPE WITH DIAMETERS 8 INCHES TO 10 INCHES SHALL BE PVC SEWER PIPE ASTM D3034, SDR 35. PIPE FOR 6 INCH DIAMETER HOUSE SERVICE LINES SHALL BE PVC PIPE ASTM D3034, SDR 35. PVC PIPE SHALL NOT BE USED AT DEPTHS GREATER THAN 28 FEET. PIPE MATERIALS AND RELATED STRUCTURES SHALL BE SHOP TESTED IN ACCORDANCE WITH CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION QUALITY CONTROL REQUIREMENTS. PROPOSED JOINTS SHALL ADHERE TO ASTM D3212.

4. THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPES WITH DIAMETERS 12 INCHES TO 30 INCHES SHALL BE PVC SEWER PIPE, ASTM D3034, SDR 35 OR SANITITE HP PIPE, ASTM F2736. SANITARY SEWER PIPES WITH DIAMETERS 30 INCHES TO 60 INCHES SHALL BE PVC SEWER PIPE, ASTM D3034, SDR 35 OR SANITITE HP PIPE, ASTM F2764.

5. ALL IN-LINE WYE AND TEE CONNECTIONS IN CONCRETE SEWERS, 18-INCH DIAMETER AND LARGER, SHALL BE EITHER KOR-N-TEE OR KOR-N-SEAL CONNECTIONS CONFORMING TO THE MANUFACTURER'S RECOMMENDATIONS.

6. GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 613, TYPE II OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER.

7. ALL MANHOLE LIDS SHALL BE PROVIDED WITH CONTINUOUS SELF-SEALING GASKETS. THE APPROVED CONSTRUCTION DRAWINGS SHALL SHOW WHERE BOLT-DOWN LIDS ARE REQUIRED. SANITARY SEWER MANHOLES SHALL BE PRECAST CONCRETE OR AS APPROVED BY THE CITY ENGINEER AND CONFORM TO THE CITY OF DUBLIN SANITARY MANHOLE STANDARD DRAWING. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO.

8. ALL PVC SEWER PIPES SHALL BE DEFLECTION TESTED NO LESS THAN 60 DAYS AFTER COMPLETION OF BACKFILLING OPERATIONS. ALL OTHER REQUIREMENTS SHALL BE ACCORDING TO ITEM 901.21 OF THE STANDARD SPECIFICATIONS.

9. TEMPORARY BULKHEADS SHALL BE PLACED IN PIPES AT LOCATIONS SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AND SHALL REMAIN IN PLACE UNTIL THE PERMIT TO INSTALL (PTI) HAS BEEN ISSUED BY THE OEPA AND THE SEWERS HAVE BEEN APPROVED FOR USE BY THE CITY ENGINEER. THE COST FOR FURNISHING, INSTALLING, MAINTAINING, AND REMOVING BULKHEADS SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE FOR THE VARIOUS SANITARY SEWER ITEMS.

10. ALL SANITARY SEWERS INCLUDING SANITARY SEWER SERVICE LINES SHALL BE SUBJECTED TO AND PASS INFILTRATION OR EXFILTRATION TESTS ACCORDING TO ITEM 901 OF THE STANDARD SPECIFICATIONS AND MUST BE APPROVED FOR USE BY THE CITY ENGINEER BEFORE ANY SERVICE CONNECTIONS ARE TAPPED INTO SEWERS.

11. FOR SANITARY SEWER INFILTRATION, LEAKAGE THROUGH JOINTS SHALL NOT EXCEED 100 GALLONS PER INCH OF TRIBUTARY SEWER DIAMETER PER 24 HOURS PER MILE OF LENGTH OR THE COMPUTED EQUIVALENT. ALL SANITARY SEWERS SHALL BE TESTED.

12. AT THE DETERMINATION OF THE CITY ENGINEER, THE CONTRACTOR MAY BE REQUIRED TO PERFORM A TV INSPECTION OF THE SANITARY SEWER SYSTEM PRIOR TO FINAL ACCEPTANCE BY THE CITY. THIS WORK SHALL BE COMPLETED BY THE CONTRACTOR AT HIS EXPENSE.

13. VISIBLE LEAKS OR OTHER DEFECTS OBSERVED OR DISCOVERED DURING TV INSPECTION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.

14. ROOF DRAINS, FOUNDATION DRAINS, FIELD TILE OR OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE STRICTLY PROHIBITED ACCORDING TO SECTION 51.23 OF THE DUBLIN CODE OF ORDINANCES.

15. ALL WATER LINES SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY AND 18 INCHES VERTICALLY, FROM SANITARY SEWERS AND STORM SEWERS, TO THE GREATEST EXTENT PRACTICABLE. WHERE SANITARY SEWERS CROSS WATER MAINS OR OTHER SEWERS OR OTHER UTILITIES, TRENCH BACKFILL SHALL BE PLACED BETWEEN THE PIPES CROSSING AND SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS. IN THE EVENT THAT A WATER LINE MUST CROSS WITHIN 18 INCHES OF A SANITARY SEWER, THE SANITARY SEWER SHALL BE CONCRETE ENCASED OR CONSIST OF DUCTILE IRON PIPE MATERIAL.

16. SERVICE RISERS SHALL BE INSTALLED WHERE THE DEPTH FROM WYES TO PROPOSED GROUND ELEVATION EXCEEDS 10 FEET. TOPS OF RISERS SHALL BE NO LESS THAN 9 FEET BELOW PROPOSED GROUND ELEVATION IF BASEMENT SERVICE IS INTENDED.

17. WHERE SERVICE RISERS ARE NOT INSTALLED, A MINIMUM 5-FOOT LENGTH OF SANITARY SEWER SERVICE PIPE OF THE SAME SIZE AS THE WYE OPENING SHALL BE INSTALLED.

18. THE CONTRACTOR SHALL FURNISH AND PLACE, AS DIRECTED, APPROVED WYE POLES MADE OF 2 INCHES X 2 INCHES LUMBER AT ALL WYE LOCATIONS, ENDS OF EXTENDED SERVICES, OR AT THE END OF EACH RISER WHERE RISERS ARE REQUIRED. WYE POLES SHALL BE VISIBLE BEFORE ACCEPTANCE BY THE CITY. THE COST OF THESE POLES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS SEWER ITEMS.

19. EXISTING SANITARY SEWER FLOWS SHALL BE MAINTAINED AT ALL TIMES. COSTS FOR PUMPING AND BYPASSING SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE BID FOR THE RELATED ITEMS.

20. THE CONTRACTOR SHALL FURNISH ALL MATERIAL, EQUIPMENT, AND LABOR TO MAKE CONNECTIONS TO EXISTING MANHOLES. THE SEWER PIPE TO MANHOLE CONNECTIONS FOR ALL SANITARY SEWERS SHALL BE FLEXIBLE AND WATERTIGHT. ALL HOLES SHALL BE NEATLY CORED. THE SEWER PIPE BARREL AT THE SPRINGLINE SHALL NOT EXTEND MORE THAN 1 INCH BEYOND THE INSIDE FACE OF THE MANHOLE. TO MAINTAIN FLEXIBILITY IN THE CONNECTION, A 1-INCH SPACE SHALL BE LEFT BETWEEN THE END OF THE PIPE INSIDE THE MANHOLE AND THE CONCRETE CHANNEL; THIS SPACE SHALL BE FILLED WITH A WATERPROOF FLEXIBLE JOINT FILLER. ANY METAL THAT IS USED SHALL BE TYPE 300 SERIES STAINLESS STEEL. THE CONNECTION MAY BE ANY OF THE FOLLOWING TYPES:

- A. RUBBER SLEEVE WITH STAINLESS STEEL BANDING.
- 1) KOR-N-SEAL AS MANUFACTURED BY NATIONAL POLLUTION CONTROL SYSTEMS, INC.
- 2) LOCK JOINT FLEXIBLE MANHOLE SLEEVE AS MANUFACTURED BY INTERPACE CORPORATION.
- 3) OR EQUAL AS APPROVED BY THE CITY ENGINEER.
- B. RUBBER GASKET COMPRESSION.
- 1) PRESS WEDGE II AS MANUFACTURED BY PRESS-SEAL GASKET CORPORATION.
- 2) DURA SEAL III AS MANUFACTURED BY DURA TECH, INC.
- 3) LINK-SEAL AS MANUFACTURED BY THUNDERLINE CORPORATION.
- 4) OR EQUAL AS APPROVED BY THE CITY ENGINEER.

THE COST FOR THIS WORK ALONG WITH A NEW CHANNELIZED BASE FOR THE MANHOLE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE RELATED ITEMS OF WORK.

WATER LINE 1-17 DELETED

STORM SEWER 1-7 DELETED

MAIL DELIVERY

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT US MAIL DELIVERY WITHIN THE PROJECT LIMITS IS NOT DISRUPTED BY CONSTRUCTION OPERATIONS. THIS RESPONSIBILITY IS LIMITED TO RELOCATION OF MAILBOXES TO A TEMPORARY LOCATION THAT WILL ALLOW THE COMPLETION OF THE WORK AND SHALL ALSO INCLUDE THE RESTORATION OF MAILBOXES TO THEIR ORIGINAL LOCATION OR APPROVED NEW LOCATION. ANY RELOCATION OF MAILBOX SERVICES MUST BE FIRST COORDINATED WITH THE US POSTAL SERVICE AND THE HOMEOWNER.

2. BEFORE RELOCATING ANY MAILBOXES, THE CONTRACTOR SHALL CONTACT THE U.S. POSTAL SERVICE AND RELOCATE MAILBOXES ACCORDING TO THE REQUIREMENTS OF THE POSTAL SERVICE.

USE OF FIRE HYDRANTS 1-2 DELETED

EROSION AND SEDIMENT CONTROL

1. THE CONTRACTOR OR DEVELOPER IS RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT (NOI) TO BE REVIEWED AND APPROVED BY THE OHIO EPA. THE NOI MUST BE SUBMITTED TO OEPA 45 DAYS PRIOR TO THE START OF CONSTRUCTION AND MAY ENTITLE COVERAGE UNDER THE OHIO EPA GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. A PROJECT LOCATION MAP MUST BE SUBMITTED WITH THE NOI. A SEDIMENT AND EROSION CONTROL PLAN MUST BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL IF A SEDIMENT AND EROSION CONTROL PLAN HAS NOT ALREADY BEEN INCLUDED WITH THE APPROVED CONSTRUCTION DRAWINGS. THIS PLAN MUST BE MADE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE DESIGN OF EROSION CONTROL SYSTEMS SHALL FOLLOW THE REQUIREMENTS OF OHIO EPA, ITEM 207 OF OHIO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND THE CITY ENGINEER. AN INDIVIDUAL NPDES STORMWATER DISCHARGE PERMIT MAY BE REQUIRED. THE CONTRACTOR SHALL BE CONSIDERED THE PERMITTEE.

2. THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE STORM WATER RUNOFF LEAVES THE PROJECT, INCLUDING WATERWAYS, OVERLAND SHEET FLOW, AND STORM SEWERS.

3. ACCEPTED METHODS OF PROVIDING EROSION/SEDIMENT CONTROL INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT BASINS, SILT FILTER FENCE, AGGREGATE CHECK DAMS, AND TEMPORARY GROUND COVER. HAY OR STRAW BALES ARE NOT PERMITTED.

4. THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE OF THE WORK AREA AT ALL TIMES CONSISTENT WITH EROSION CONTROL PRACTICES.

5. DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR 30 DAYS OR MORE SHALL BE SEEDED OR PROTECTED WITHIN SEVEN CALENDAR DAYS OF THE DISTURBANCE. OTHER SEDIMENT CONTROLS THAT ARE INSTALLED SHALL BE MAINTAINED UNTIL VEGETATIVE GROWTH HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT BEFORE GROWTH OF PERMANENT GROUND COVER.



PUBLIC SANITARY IMPROVEMENTS FOR AYRSHIRE FARMS CITY OF DUBLIN, FRANKLIN COUNTY, OHIO GENERAL NOTES

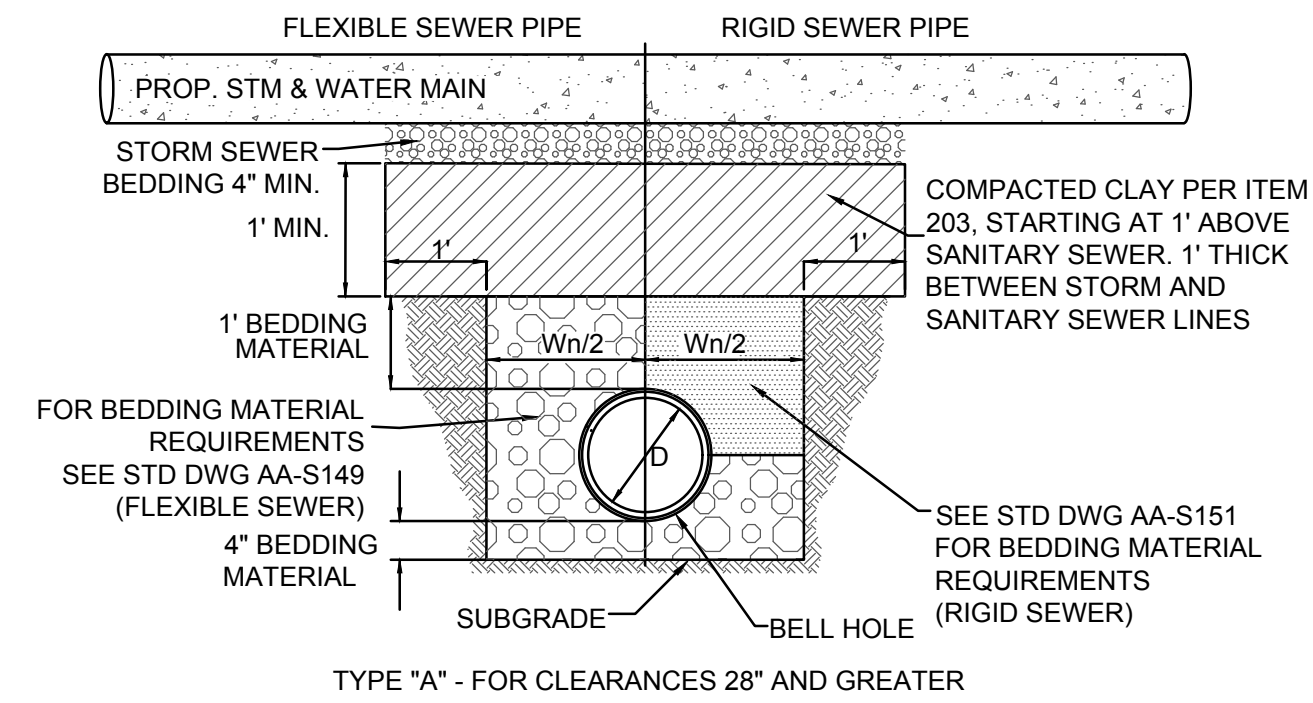
REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	07/09/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

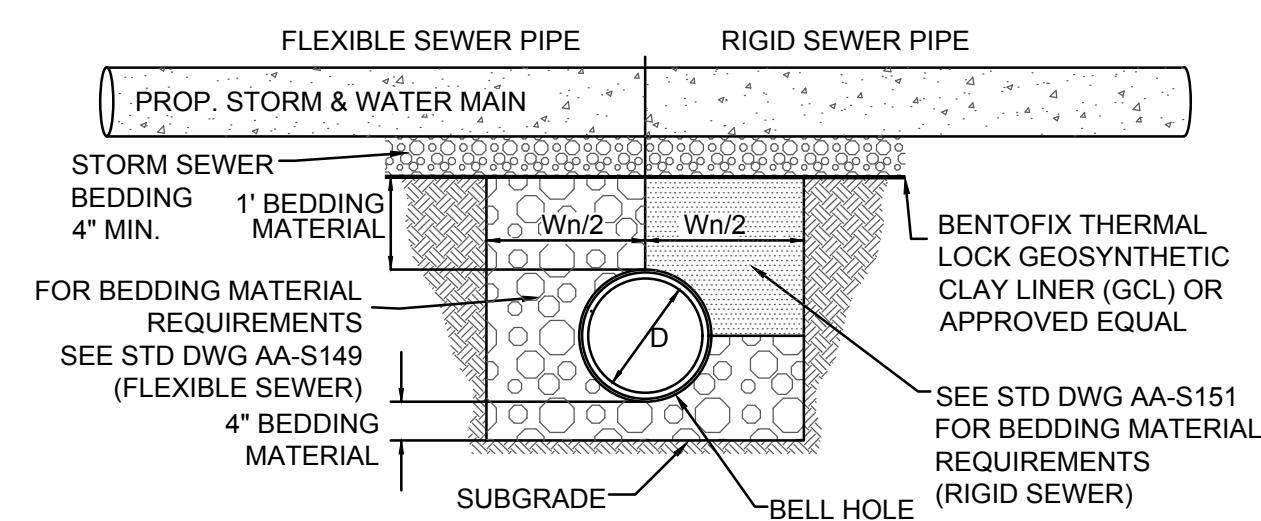
C002

PLOT SCALE: 1:1 EDIT DATE: 7/12/21 - 6:56 PM EDITED BY: JRPERRY DRAWING FILE: 0:201907145D DRAWINGS\CIVIL\CONSTRUCTION\DOCUMENTS\SANITARY\2019.07145.CE.TS.DWG

FLEXIBLE SEWER PIPE				RIGID SEWER PIPE			
* INCHES				* INCHES			
D	W <sub>n</sub>	D	W <sub>n</sub>	D	W <sub>n</sub>	D	W <sub>n</sub>
6	30	24	48	6	24	27	52
8	30	27	52	8	27	30	57
10	30	30	56	10	30	33	61
12	32	36	64	12	32	36	64
15	36	42	72	15	36	42	71
18	40	48	80	18	40	48	78
21	44			21	44	54	87
				24	48	60	96
						66	105
						72	116
						78	123
						84	130
						90	136
						96	143
						102	151
						108	160



TYPE "A" - FOR CLEARANCES 28" AND GREATER



TYPE "B" - FOR CLEARANCES LESS THAN 28"

**NOTES:**

1. THIS DETAIL IS REQUIRED AT ALL SANITARY SEWER AND WATER MAIN CROSSINGS. IF IT IS DISTURBED DURING THE CONSTRUCTION OF THE STORM SEWER OR WATER MAIN IT MUST BE RESTORED TO THE REQUIREMENTS OF THE DETAIL. THIS DETAIL IS NOT BEING USED TO MITIGATE CROSSINGS WHERE THERE IS LESS THAN 18" OF VERTICAL DISTANCE FROM OUTSIDE TO OUTSIDE OF PIPES.
2. BARRIER SHALL BE PLACED AT ALL WATER MAIN AND STORM CROSSINGS FOR A LENGTH OF 20' MEASURED ALONG THE SANITARY LINE AND CENTERED ON THE WATER MAIN OR STORM CROSSING.

**# ANTI-INFILTRATION AND INFLOW BARRIER**  
NOT TO SCALE

ESTIMATE OF QUANTITIES			
THESE QUANTITIES HAVE BEEN PROVIDED ONLY AS AN ESTIMATE TO THE SCOPE OF THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO EVALUATE THE COMPLETE PROJECT AS DETAILED IN THE NOTES, PLANS, AND SPECIFICATIONS AND PROCEDURES NECESSARY FOR THE COMPLETION OF THE PLAN IMPROVEMENTS AND SUBMIT HIS TOTAL PROJECT COST ACCORDINGLY.			
ITEM	QUANTITY	UNIT	DESCRIPTION
<b>SITE</b>			
201	LUMP	SUM	CLEARING AND GRUBBING
203	LUMP	SUM	EXCAVATION INCLUDING EMBANKMENT
207	LUMP	SUM	TEMPORARY SEDIMENT AND EROSION CONTROLS
<b>SANITARY</b>			
604		EACH	PRECAST CONCRETE MANHOLE TYPE "C" (AA-S102) W/ CITY OF DUBLIN LID (ST-02)
901	1,604	LF	8" PVC SANITARY SEWER PIPE, OR APPROVED EQUAL
914	79	LF	6" PVC DIA. PIPE RISER
915	30	EACH	8" X 6" WYE FITTING
918	1,354	LF	6" DIAMETER PIPE, SANITARY HOUSE SERVICE CONNECTION
CALCULATED BY: BAJ DATE: 06/11/2021 CHECKED BY: BJM 06/28/2021			



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PUBLIC SANITARY IMPROVEMENTS  
FOR  
**AYRSHIRE FARMS**  
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
**ESTIMATE OF QUANTITIES  
AND DETAILS**

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	07/09/2021
DRAWN BY:	ALH
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

**C003**

PUBLIC SANITARY IMPROVEMENTS  
FOR  
**AYRSHIRE FARMS**  
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
**SANITARY SEWER PLAN &  
PROFILE**

MH-MH	LOT NUMBERS	WYE STATION	LENGTH OF SERVICE	SERVICE SLOPE %	E.O.S ELEVATION	LOT NUMBERS	RISER HEIGHT	PERMIT NO.
S10-S4	23	2+78	65	2.08%	934.25	23	0	
S10-S4	24	2+35	65	2.08%	935.03	24	2	
S10-S4	25	1+54	65	2.08%	934.79	25	2	
S10-S4	26	0+92	65	2.08%	934.79	26	2	

MH-MH	LOT NUMBERS	WYE STATION	LENGTH OF SERVICE	SERVICE SLOPE %	E.O.S ELEVATION	LOT NUMBERS	RISER HEIGHT	PERMIT NO.
S9-S3	16	0+48	134	2.08%	933.68	16	1	
S9-S3	17	0+43	106	2.08%	932.64	17	1	

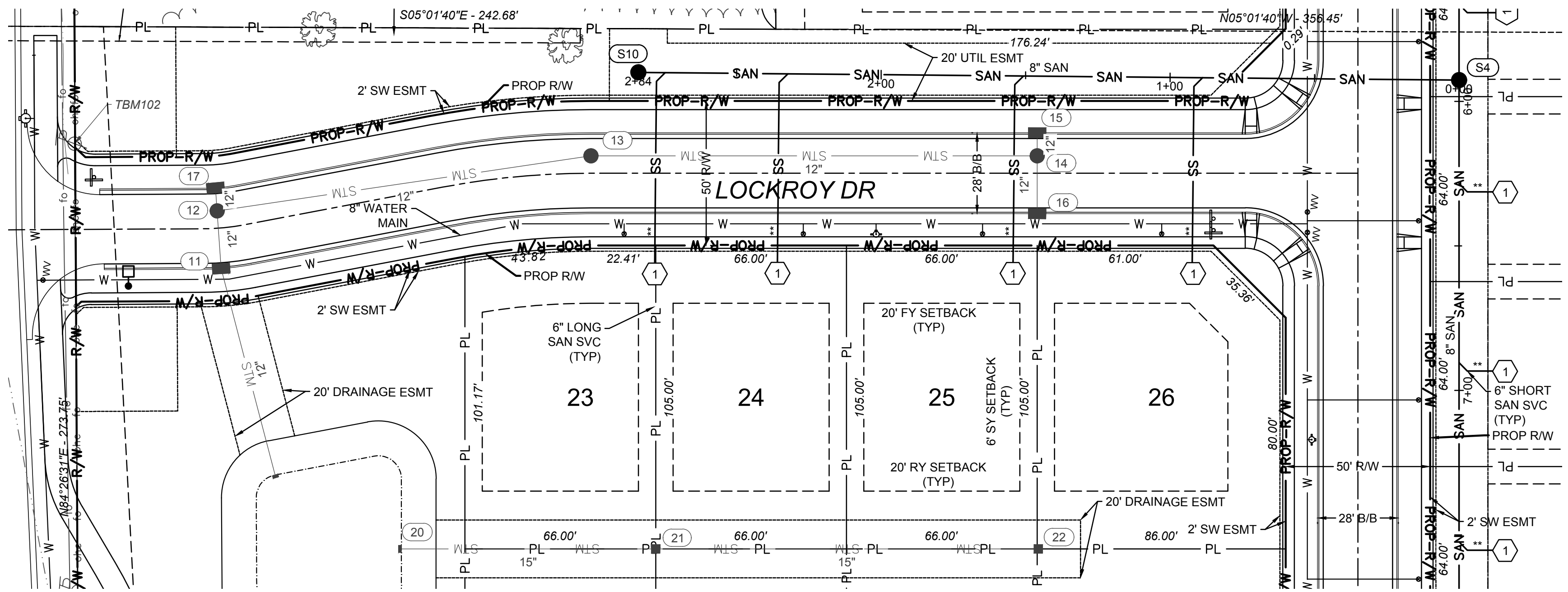
MH-MH	LOT NUMBERS	WYE STATION	LENGTH OF SERVICE	SERVICE SLOPE %	E.O.S ELEVATION	LOT NUMBERS	RISER HEIGHT	PERMIT NO.
S8-S7	1	11+61	38	2.08%	934.63	1	0	
S8-S7	2	10+97	21	2.08%	935.33	2	2	
S8-S7	3	10+35	13	2.08%	935.79	3	2	
S8-S7	28	10+69	65	2.08%	935.50	28	0	
S8-S7	29	11+31	89	2.08%	936.21	29	0	
S8-S7	30	11+73	85	2.08%	936.33	30	0	

MH-MH	LOT NUMBERS	WYE STATION	LENGTH OF SERVICE	SERVICE SLOPE %	E.O.S ELEVATION	LOT NUMBERS	RISER HEIGHT	PERMIT NO.
S7-S6	4	9+80	25	2.08%	935.74	4	2	
S7-S6	5	9+20	19	2.08%	936.85	5	4	
S7-S6	27	10+06	60	2.08%	935.50	27	0	

MH-MH	LOT NUMBERS	WYE STATION	LENGTH OF SERVICE	SERVICE SLOPE %	E.O.S ELEVATION	LOT NUMBERS	RISER HEIGHT	PERMIT NO.
S6-S5	6	8+71	24	2.08%	935.80	6	3	
S6-S5	7	8+11	21	2.08%	935.06	7	3	

MH-MH	LOT NUMBERS	WYE STATION	LENGTH OF SERVICE	SERVICE SLOPE %	E.O.S ELEVATION	LOT NUMBERS	RISER HEIGHT	PERMIT NO.
S5-S4	8	7+55	13	2.08%	935.31	8	3	
S5-S4	9	6+93	13	2.08%	935.63	9	4	
S5-S4	10	6+31	13	2.08%	935.43	10	4	

MH-MH	LOT NUMBERS	WYE STATION	LENGTH OF SERVICE	SERVICE SLOPE %	E.O.S ELEVATION	LOT NUMBERS	RISER HEIGHT	PERMIT NO.
S4-S3	11	5+69	13	2.08%	935.69	11	5	
S4-S3	12	5+07	13	2.08%	935.37	12	5	
S4-S3	13	4+45	13	2.08%	935.05	13	5	
S4-S3	14	3+53	13	2.08%	934.73	14	5	
S4-S3	15	3+01	13	2.08%	934.66	15	5	
S4-S3	18	2+95	65	2.08%	933.63	18	3	
S4-S3	19	3+47	65	2.08%	933.47	19	2	
S4-S3	20	3+98	65	2.08%	934.96	20	4	
S4-S3	21	4+75	65	2.08%	935.29	21	4	
S4-S3	22	5+52	65	2.08%	935.62	22	4	



**NOTE:**

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELEVATIONS AND INVERTS PRIOR TO START OF CONSTRUCTION.

LONG SERVICES ARE TO HAVE AT LEAST 2' OF RISER ON HOUSE SIDE OF STREET IN ACCORDANCE WITH CITY OF DUBLIN STANDARD CONSTRUCTION DRAWING SA-03.

TAPS INTO EXISTING SEWER SYSTEMS ARE TO BE CORE DRILLED AND INSPECTED.

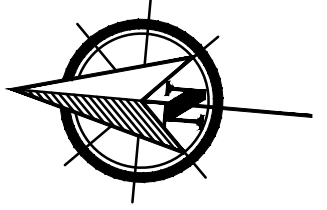
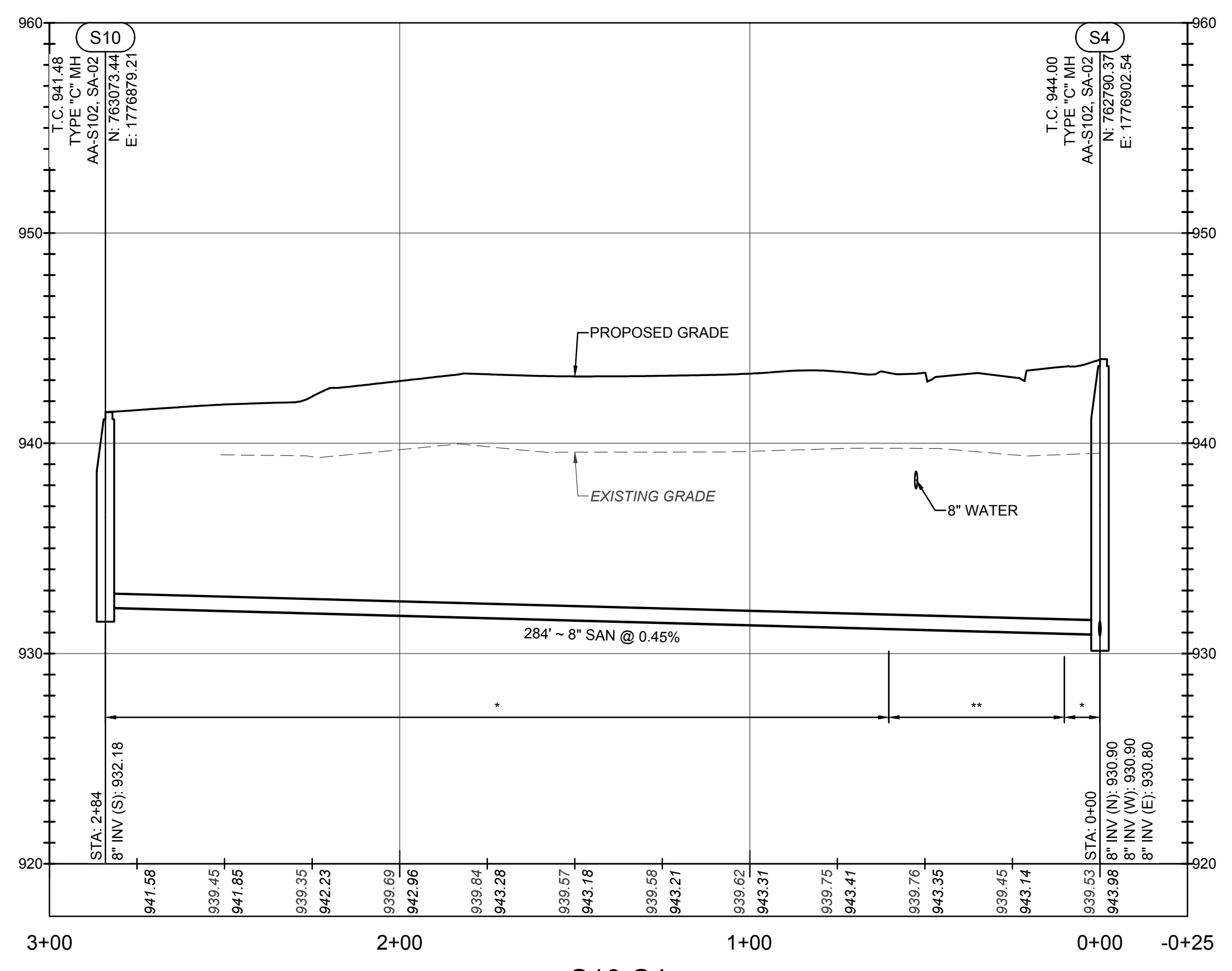
END OF SANITARY STUBS SHALL BE MARKED WITH 4"x4" POST.

Ⓢ THE CONTRACTOR IS RESPONSIBLE TO PROVIDE A MINIMUM 2.5' CLEARANCE BETWEEN THE 6" SANITARY SEWER SERVICES AND ALL UTILITY CROSSINGS WHILE MAINTAINING A MINIMUM 2.08% GRADE FOR THE SANITARY SERVICES. CONSTRUCT THE TYPICAL ANTI-INFILTRATION & INFLOW BARRIER FOR ALL CROSSINGS OF SANITARY SEWERS AND WATER MAINS AND STORM SEWERS; SEE DETAIL SHOWN ON SHEET C003

PROPOSED NON-SANITARY SITE IMPROVEMENTS ARE SHOWN FOR REFERENCE ONLY. PLEASE REFER TO THE AYRSHIRE FARMS PUBLIC STREET, STORM, AND WATER IMPROVEMENT PLAN.

**PROFILE NOTES:**

- \* COMPACTED BACKFILL, ITEM 911
- \*\* COMPACTED GRANULAR BACKFILL, ITEM 912
- # SEE ANTI INFILTRATION AND INFLOW BARRIER DETAIL, SHEET C003



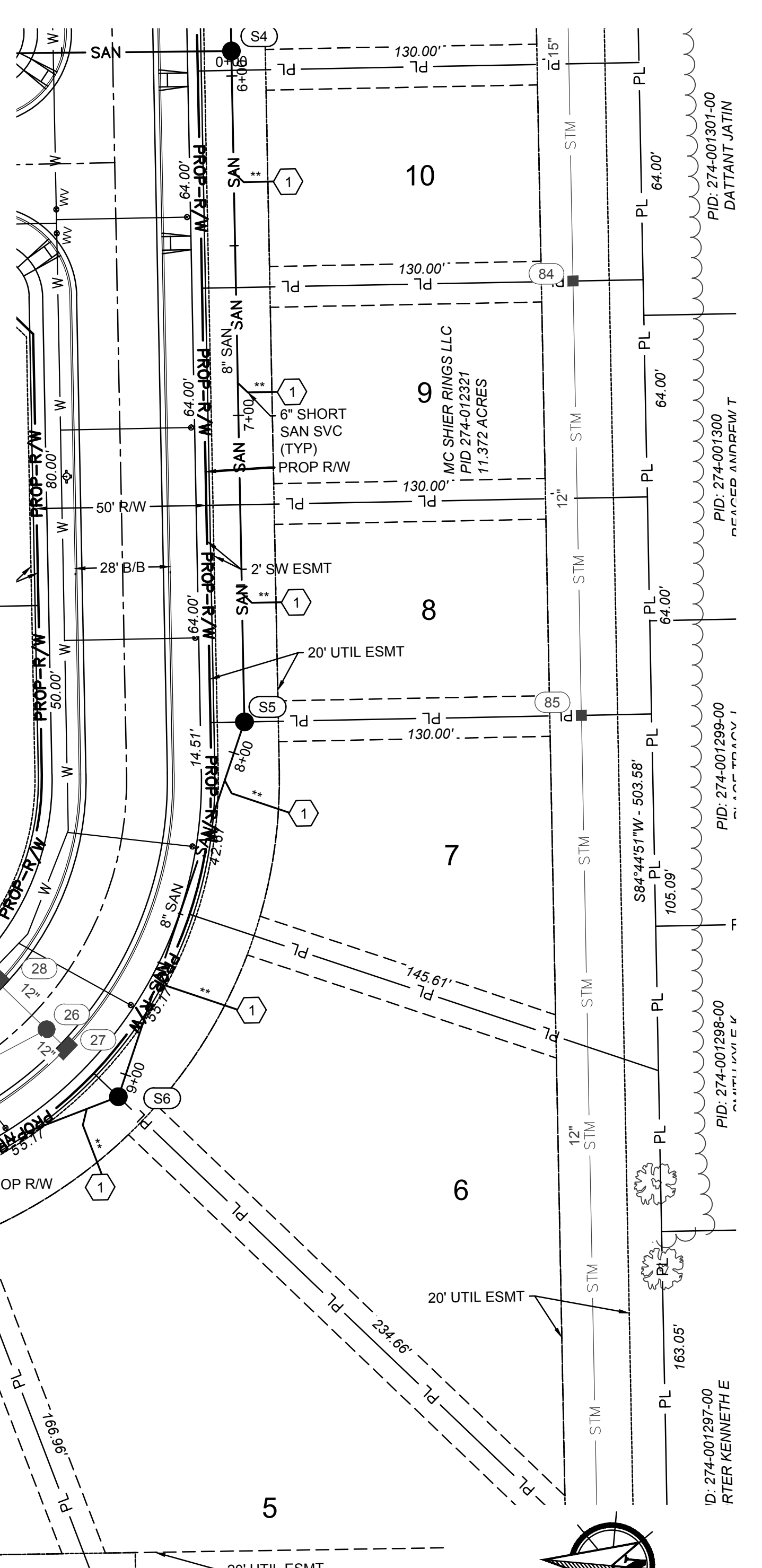
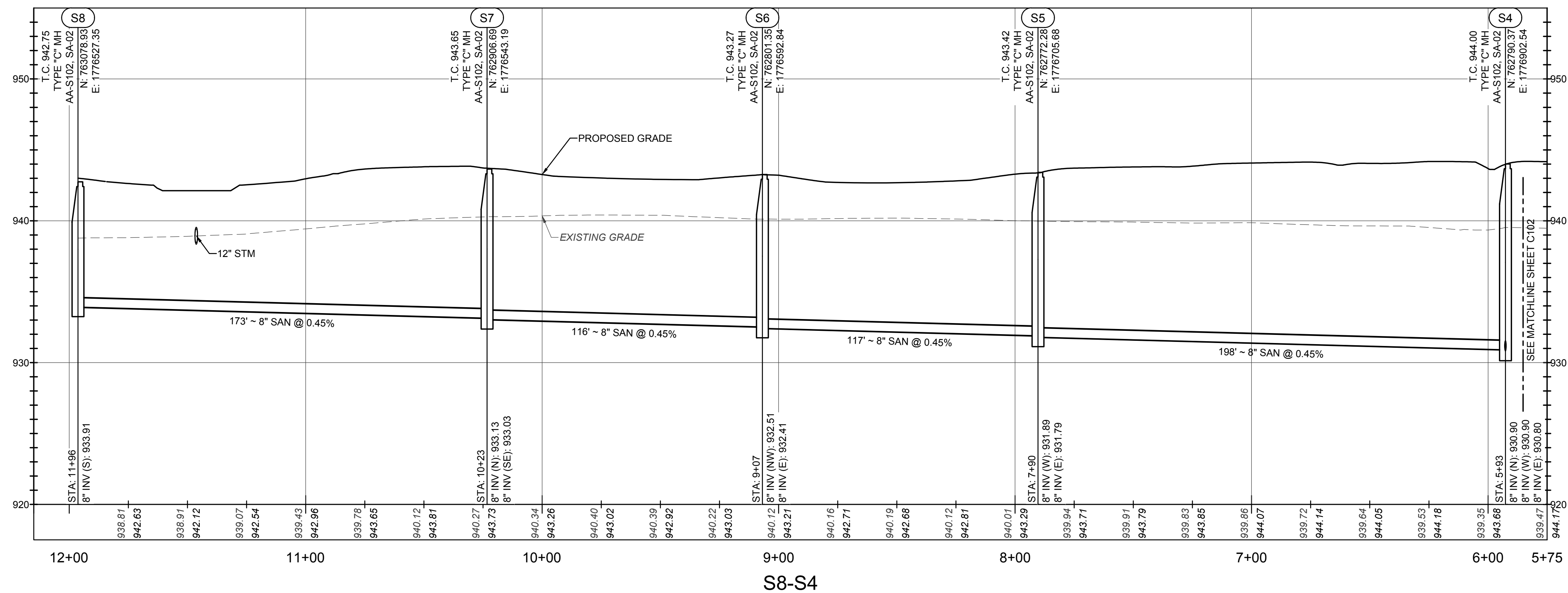
REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE: 07/09/2021  
DRAWN BY: ALH  
CHECKED BY: JRP  
JOB NUMBER: 2019.01745

**C100**

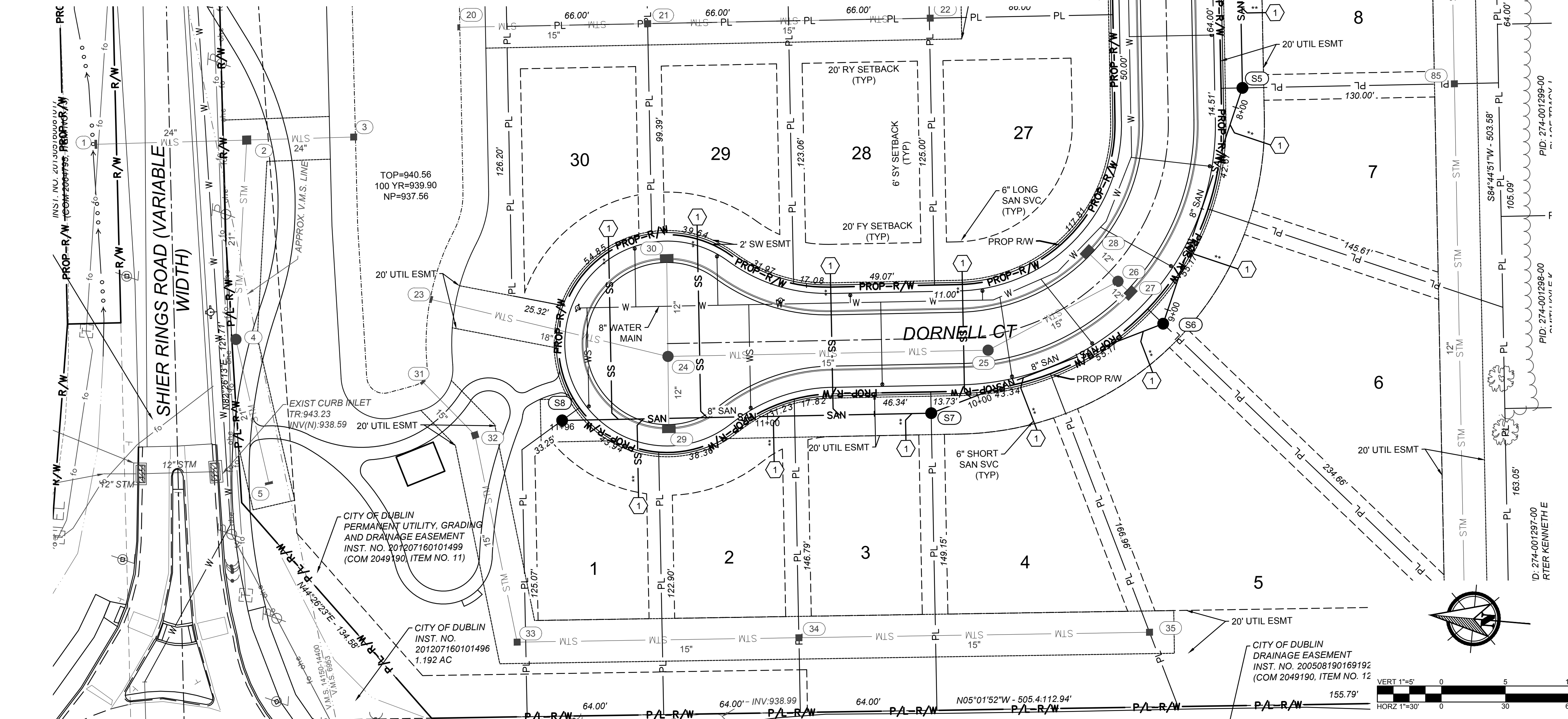
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**NOTE:**  
 CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELEVATIONS AND INVERTS PRIOR TO START OF CONSTRUCTION.  
 LONG SERVICES ARE TO HAVE AT LEAST 2' OF RISER ON HOUSE SIDE OF STREET IN ACCORDANCE WITH CITY OF DUBLIN STANDARD CONSTRUCTION DRAWING SA-03.  
 TAPS INTO EXISTING SEWER SYSTEMS ARE TO BE CORE DRILLED AND INSPECTED.  
 END OF SANITARY STUBS SHALL BE MARKED WITH 4"x4" POST.  
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**AMERICAN STRUCTUREPOINT INC.**  
 2550 Corporate Exchange Ct., Ste. 301 | Columbus, Ohio 43221  
 TEL: 614.881.1226  
 WWW.STRUCTUREPOINT.COM

**PUBLIC SANITARY IMPROVEMENTS FOR AYRSHIRE FARMS**  
 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

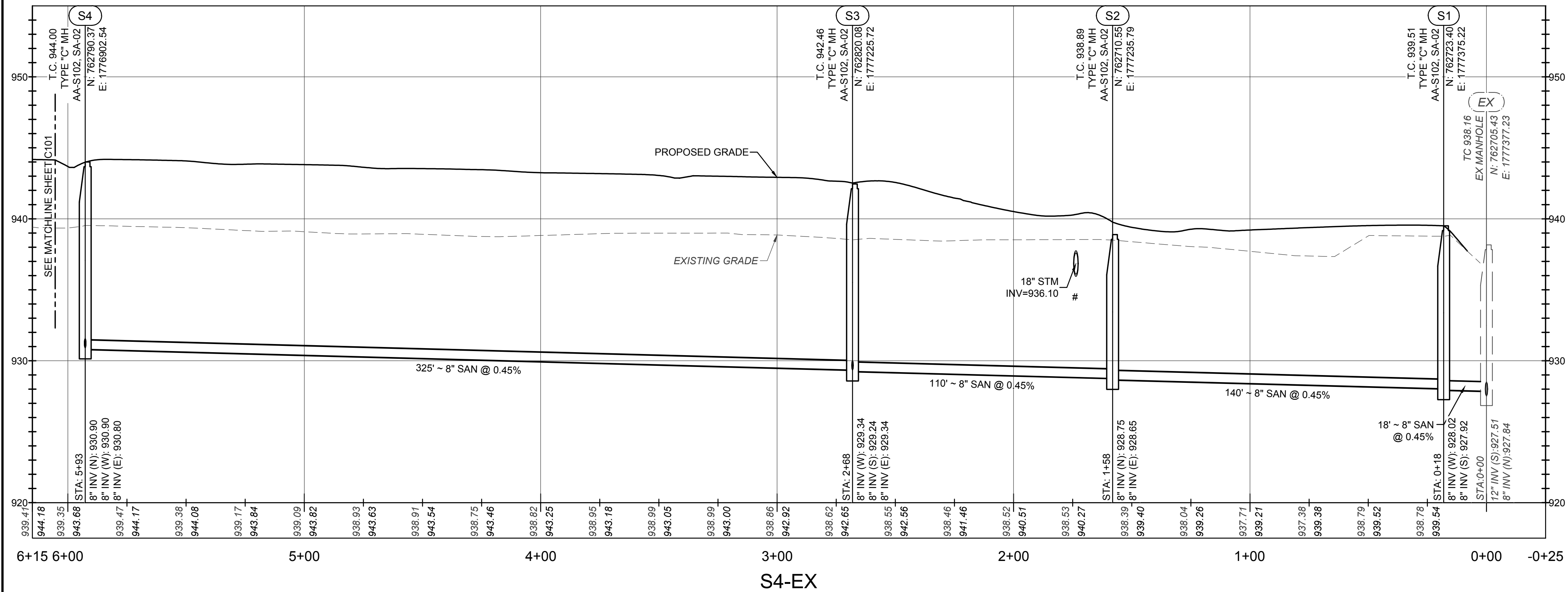
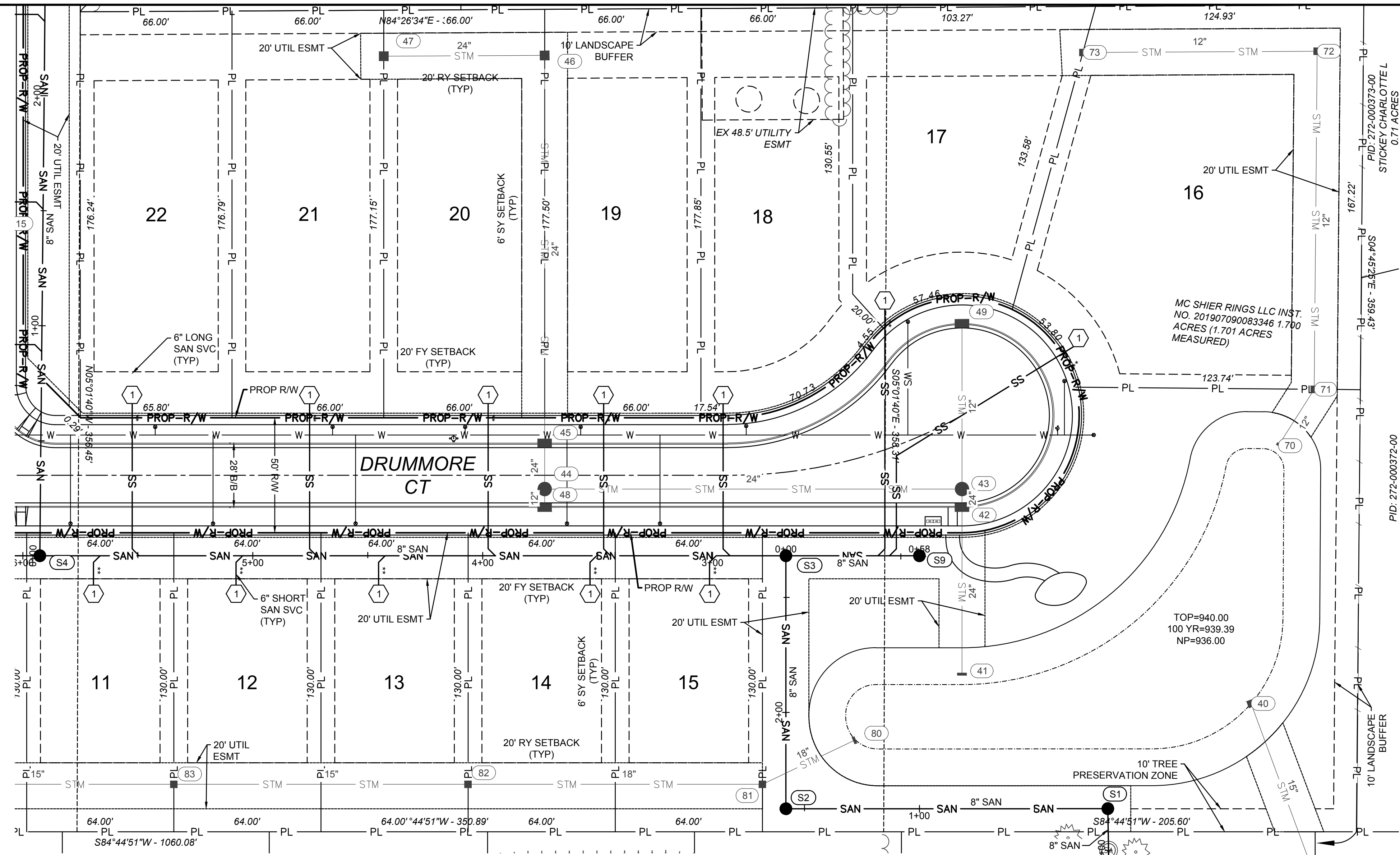
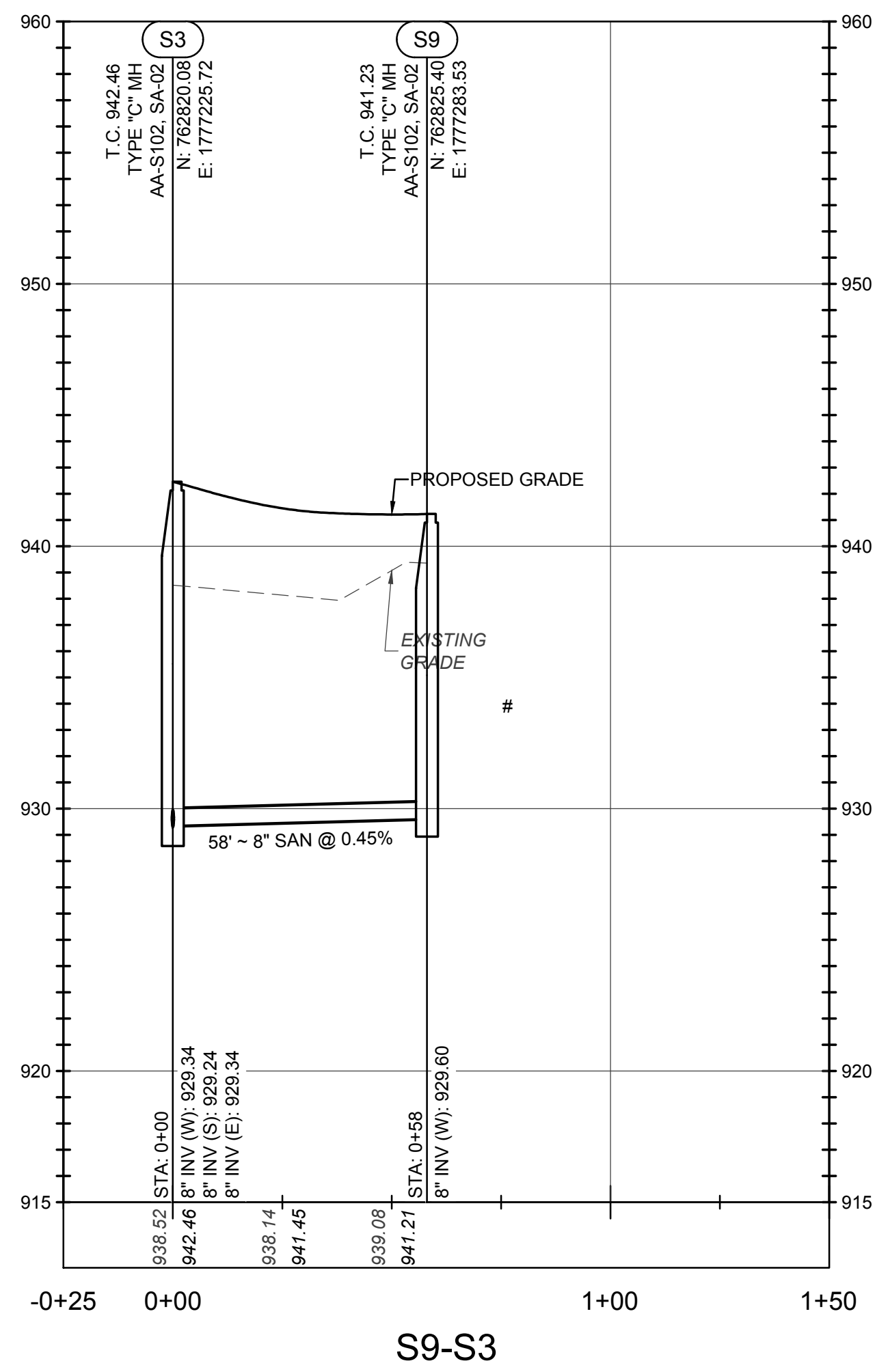
**SANITARY SEWER PLAN & PROFILE**

REVISIONS	DATE	SHEET NO.	DESCRIPTION

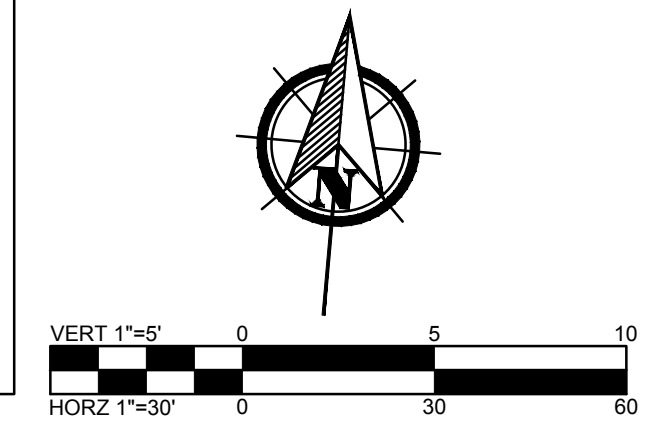
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 DRAWN BY: ALH  
 CHECKED BY: JRP  
 JOB NUMBER: 2019.01745


C101

PLOT SCALE: 1"=10' DATE: 7/12/21 8:40 AM EDITED BY: BOBINSON DRAWING FILE: \\CULFSP\PROJECTS\20190714510.D DRAWINGS\CIVIL\CONSTRUCTION DOCUMENT\SSANITARY\2019.01745.CE.P&P.DWG



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 LONG SERVICES ARE TO HAVE AT LEAST 2' OF RISER ON HOUSE SIDE OF STREET IN ACCORDANCE WITH CITY OF DUBLIN STANDARD CONSTRUCTION DRAWING SA-03.  
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**PROFILE NOTES:**  
 \* COMPACTED BACKFILL, ITEM 911  
 \*\* COMPACTED GRANULAR BACKFILL, ITEM 912  
 # SEE ANTI INFILTRATION AND INFLOW BARRIER DETAIL, SHEET C003





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 WWW.STRUCTUREPOINT.COM

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PUBLIC SANITARY IMPROVEMENTS  
 FOR  
**AYSHIRE FARMS**  
 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

**SANITARY SEWER PLAN & PROFILE**

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REVISIONS	DATE	SHEET NO.	DESCRIPTION

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DATE:	07/09/2021
DRAWN BY:	ALH
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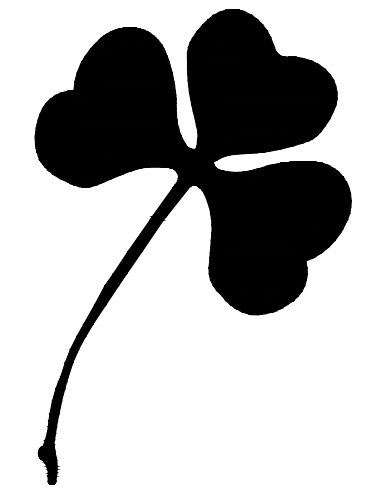
C102



# CITY OF DUBLIN, OHIO

# SHIER RINGS ROAD WIDENING

## 21-XXX-CIP



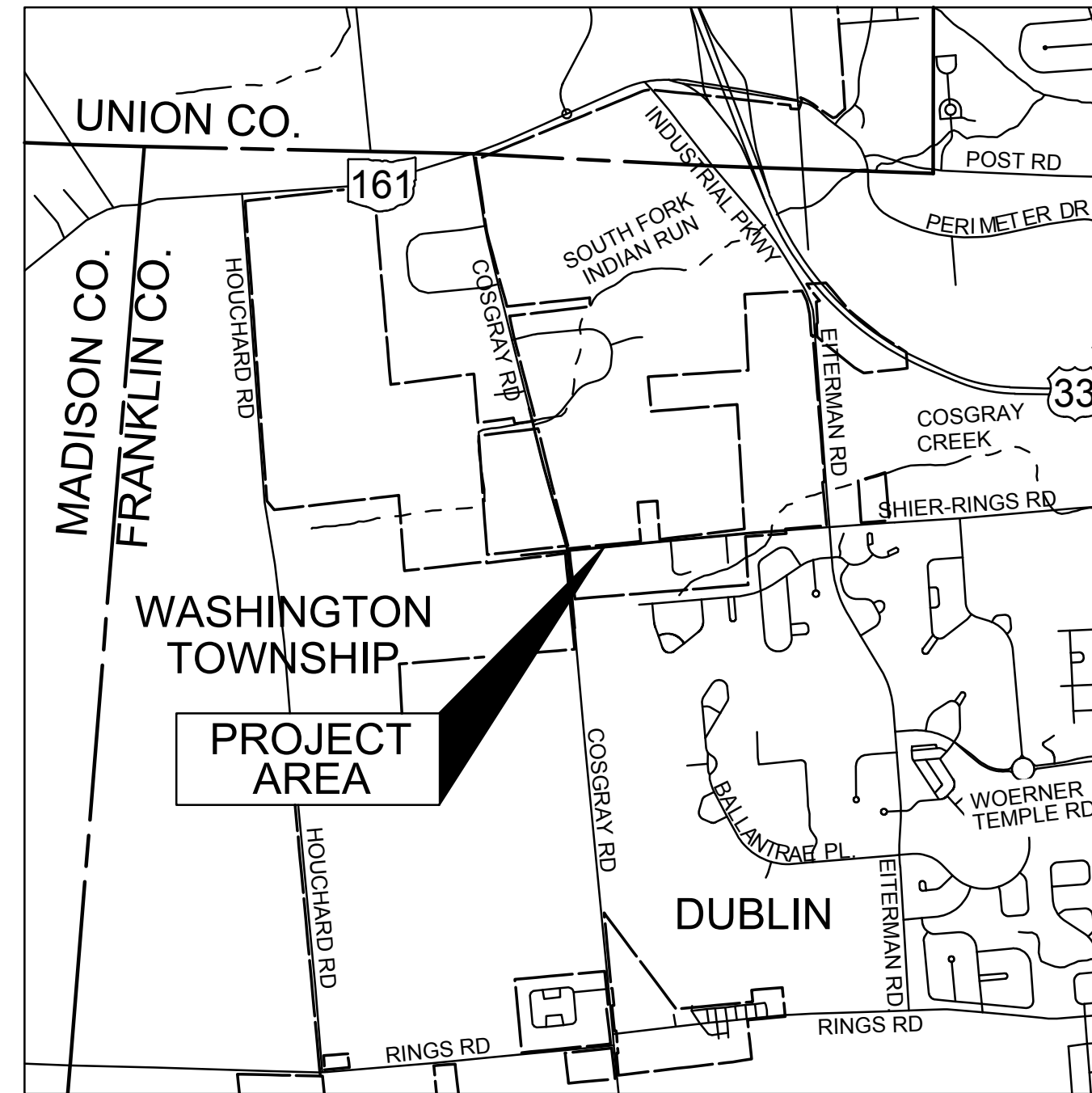
### SHEET INDEX

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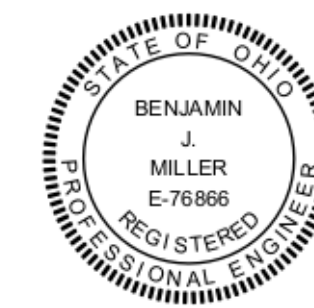


### EXISTING LEGEND

	PINE TREE		POINT OF CURVE
	BUSH		POST
	CONCRETE MONUMENT SET		POWER & LIGHT POLE
	CONCRETE MONUMENT FOUND		POWER & TELEPHONE POLE
	CONTROL CENTER BASE		POWER LINE MARKER
	CURB INLET		POWER POLE
	DRAINAGE INLET SQUARE		ROCK
	ELECTRIC BOX		SIGN
	FIRE HYDRANT		TELEPHONE LIGHT POLE
	GAS MARKER		TELEPHONE MANHOLE
	GAS SERVICE VALVE		TELEPHONE MARKER
	GAS VALVE		TELEPHONE PEDESTAL
	GOVERNMENT CONTROL POINT FOUND		TELEPHONE POLE
	GOVERNMENT CONTROL POINT SET		UTILITY VALVE (MISC)
	GUY WIRE		WATER MANHOLE
	HIGH MAST TOWER LIGHT		WATER MARKER
	IRON PIN & CAP FOUND		WATER METER
	IRON PIN FOUND		WATER SERVICE VALVE
	IRON PIN SET		WATER VALVE
	IRON PIPE SET		
	LIGHT POLE		
	MAG NAIL FOUND		
	MAG NAIL SET		
	MAILBOX		
	PIPE PILE		
	PK NAIL FOUND		
	PK NAIL SET		



INDEX MAP  
1" = 2,000'



*B. Miller*  
REGISTERED ENGINEER E-76866

07/16/2021  
DATE

### APPROVED:

CITY OF DUBLIN:  
SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT AND DOES NOT CONSTITUTE ASSURANCE TO OPERATE AS INTENDED. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL CIVIL ENGINEER PREPARING THE PLANS.

CITY ENGINEER, CITY OF DUBLIN, OHIO \_\_\_\_\_ DATE  
PAUL A. HAMMERSMITH, P.E.

### CITY OF COLUMBUS:

CITY OF COLUMBUS SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLAN. APPROVAL FOR SANITARY SEWERS ONLY.

APPROVAL ON THE PART OF THE CITY OF COLUMBUS IS GIVEN PURSUANT TO THE PROVISIONS OF THE WATER SERVICE AGREEMENT BETWEEN THE CITY OF DUBLIN AND THE CITY OF COLUMBUS, OHIO, ON APRIL 13, 1993 AND ALL SUBSEQUENT AMENDMENTS THEROF.

ADMINISTRATOR, DIVISION OF SEWERAGE & DRAINAGE \_\_\_\_\_ DATE  
CITY OF COLUMBUS, OHIO

DIRECTOR, DEPARTMENT OF PUBLIC UTILITIES \_\_\_\_\_ DATE  
CITY OF COLUMBUS, OHIO

	DESIGN SPEED	POSTED SPEED
SHIER-RINGS ROAD	40 MPH	35 MPH

### ENGINEER

AMERICAN STRUCTUREPOINT  
2550 CORPORATE EXCHANGE DRIVE, SUITE 300  
COLUMBUS, OHIO 43231  
CONTACT: BEN MILLER  
PHONE: (614) 901-2235  
EMAIL: BMILLER@STRUCTUREPOINT.COM

### UTILITY CONTACTS

AMERITECH  
408 CRITES ROAD  
CIRCLEVILLE, OH 43113  
PHONE: (740) 477-3658

AMERICAN ELECTRIC POWER  
850 TECH CENTER DRIVE  
GAHANNA, OH 43230  
PHONE: (614) 883-6831

CITY OF DUBLIN  
DIVISION OF ENGINEERING  
5800 SHIER-RINGS ROAD  
DUBLIN, OH 43016  
PHONE: (614) 410-4600

CITY OF COLUMBUS  
DIVISION OF WATER  
910 DUBLIN ROAD  
COLUMBUS, OH 43215  
PHONE: (614) 645-7788

COLUMBIA GAS OF OHIO  
200 S CIVIC CENTER DR  
COLUMBUS, OH 43215  
PHONE: (614) 460-6000

TIME WARNER CABLE  
1980 ALUM CREEK DR  
COLUMBUS, OH 43207  
PHONE: (614) 918-8439

### UNDERGROUND UTILITIES

CONTACT BOTH SERVICES  
CALL TWO WORKING DAYS  
**BEFORE YOU DIG**

OHIO & GAS PRODUCERS PROTECTIVE  
SERVICE CALL: 1-800-929-0988 OR 811

OHIO UTILITIES PROTECTION SERVICE  
NON-MEMBERS  
MUST BE CALLED DIRECTLY



### BASIS OF BEARING

BEARINGS DESCRIBED HEREON ARE BASED ON NORTH 84 DEGREES 26 MINUTES 31 SECONDS EAST, THE CENTERLINE OF RIGHT-OF-WAY FOR SHIER RINGS ROAD, MEASURED FROM GRID NORTH, REFERENCED TO THE OHIO STATE PLANE COORDINATE SYSTEM (SOUTH ZONE) AND THE NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT), AS ESTABLISHED UTILIZING A GPS SURVEY AND AN NGS OPUS SOLUTION.

### ELEVATION DATUM

ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, AS ESTABLISHED UTILIZING A LEVEL CIRCUIT ORIGINATING ON V12 "RESET" (CP 1003).

### BENCHMARKS

CP1003  
V12 "RESET". BRASS SISK SET IN THE TOP OF A CONCRETE MONUMENT ON THE WEST SIDE OF COSGRAY ROAD, 0.48 MILES SOUTH OF SHIER-RINGS ROAD, 550 FEET NORTH OF THE CENTER OF THE SOUTH DRIVE TO RESIDENCE #5713, 27.5 FEET WEST OF ROAD MONUMENT FCGS 2210, 3 FEET EAST OF FENCE LINE, 2 FEET EAST OF A WITNESS POST, 1 INCH BELOW THE GROUND.

ELEVATION = 944.56

TBM 100  
"X" ON WEST ARROW BOLT OF 3RD FIRE HYDRANT SOUTH OF RAB, EAST SIDE OF COSGRAY

ELEVATION = 944.88

TBM 101  
"X" ON FIRE HYDRANT BOLT ON WEST SIDE OF FIRE HYDRANT AT SOUTHEAST CORNER OF RAB.

ELEVATION = 947.48

PUBLIC ROADWAY WIDENING PLANS  
FOR  
**SHIER RINGS ROAD**  
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
TITLE SHEET

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	07/09/2021
DRAWN BY:	GPB
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

**GENERAL**

CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, 2002, AND ANY SUPPLEMENTS THERETO (HEREAFTER REFERRED TO AS STANDARD SPECIFICATIONS), SHALL GOVERN ALL CONSTRUCTION ITEMS UNLESS OTHERWISE NOTED.

THE CONTRACTOR INTENDING TO SUBMIT A BID FOR THIS PROJECT SHALL BE PREQUALIFIED WITH THE OHIO DEPARTMENT OF TRANSPORTATION IN ACCORDANCE WITH SECTION 102 OF THE ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS, AND CHAPTER 5525 OF THE OHIO REVISED CODE CONCERNING CONSTRUCTION CONTRACTS.

THE STANDARD DRAWINGS LISTED BELOW SHALL BE CONSIDERED A PART OF THESE PLANS.

CITY OF DUBLIN	CITY OF COLUMBUS	ODOT
PD-01		
PD-02	SL-02	AA-S119
PD-03	SL-03	AA-S125
PD-04	SL-04	AA-S128
PD-11	SL-05	AA-S133
RD-01	SL-13	AA-S134
RD-02	ST-02	AA-S139
RD-03	ST-04	AA-S149
RD-06	ST-05	AA-S150
RD-07	WA-01	AA-S151
SL-01		L-6306 L-6309
		L-6310 L-6311 L-6312 L-6316 L-6637 L-6640 L-7001 L-7601 L-8502
		BP-3.1 TC-41.20

ALL ITEMS OF WORK CALLED FOR ON THE PLANS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED SHALL BE PERFORMED BY THE CONTRACTOR WITH THE COST TO BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS RELATED ITEMS. IT IS THE INTENTION OF THE CONTRACT DOCUMENTS TO PROVIDE AND REQUIRE A COMPLETED PROJECT READY FOR OPERATION. ANY WORK ITEMS OMITTED FROM THE CONTRACT DOCUMENTS WHICH ARE CLEARLY NECESSARY FOR COMPLETION OF THE WORK AND ITS APPURTENANCES SHALL BE CONSIDERED A PART OF SUCH WORK, THOUGH NOT DIRECTLY SPECIFIED OR CALLED FOR IN THE CONTRACT DOCUMENTS. THIS INCLUDES, BUT IS NOT LIMITED TO, SUCH INCIDENTAL ITEMS AS RELOCATION OF MAIL BOXES AND REMOVAL AND/OR RELOCATION OF SIGNS, SPRINKLERS, OR OTHER MISCELLANEOUS ITEMS.

THE CITY ENGINEER IS NOT RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION THAT ARE NOT SPECIFIED HEREIN. THE CITY ENGINEER IS NOT RESPONSIBLE FOR SAFETY ON THE WORK SITE, OR FOR FAILURE BY THE CONTRACTOR TO PERFORM WORK ACCORDING TO THE CONTRACT DOCUMENTS.

THE CONTRACTOR SHALL NOTIFY THE CITY OF DUBLIN DIVISION OF ENGINEERING, AT (614) 440-4631, AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.

THE CITY OF DUBLIN IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970. THE CONTRACTOR SHALL EXERCISE CAUTION ALWAYS FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT SHALL ALSO BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK, INCLUDING THE REQUIREMENTS FOR CONFINED SPACES PER 29 CFR 1910.146.

ANY MODIFICATIONS TO THE WORK AS SHOWN ON THESE APPROVED PLANS SHALL HAVE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY THE PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE CITY ENGINEER.

FOLLOWING COMPLETION OF CONSTRUCTION, A PROOF SURVEY SHALL BE PROVIDED BY THE CONTRACTOR THAT DOCUMENTS AS-BUILT INFORMATION ON ALL PUBLIC UTILITIES (STORM, WATER) COMPLETED AS PART OF THIS PROJECT. THE SURVEY SHALL BE PREPARED AND SIGNED BY AN OHIO PROFESSIONAL SURVEYOR. THE CONTRACTOR SHALL REVISE THE COPIES OF THE ORIGINAL MYLARS IN RED INK, TO THE SATISFACTION OF THE CITY, SHOWING ALL CHANGES IN THE WORK. THE COST OF THE PROOF SURVEY, INCLUDING MYLAR REVISIONS, WILL BE PAID AT THE LUMP SUM PRICE BID FOR THE ITEM SPECIAL, PROOF SURVEY, AS PER PLAN

THE CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITY TO PUBLIC RIGHT-OF-WAY, AREAS DEFINED AS PERMANENT AND/OR TEMPORARY CONSTRUCTION EASEMENTS, AND/OR THE LIMITS OF DISTURBANCE SHOWN.

PROPERTY BOUNDARIES, INCLUDING PROPERTY LINES AND ROAD RIGHTS-OF-WAY, ARE SHOWN FROM THE BEST INFORMATION AVAILABLE AND ARE NOT NECESSARILY COMPLETE OR CORRECT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE FINISHED WORK CONFORM TO THE LINES, GRADES, ELEVATIONS, AND DIMENSIONS CALLED FOR ON THE DRAWINGS AND TYPICAL SECTIONS. PAYMENT FOR CONSTRUCTION LAYOUT SHALL BE MADE AT THE LUMP SUM PRICE BID FOR ITEM 623 - CONSTRUCTION LAYOUT STAKES.

THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES, AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASES OF DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATIONS. RESETTLEMENT OF MARKERS SHALL BE PERFORMED BY AN OHIO PROFESSIONAL SURVEYOR AS APPROVED BY THE CITY ENGINEER AT THE CONTRACTOR'S EXPENSE.

SUBSURFACE INVESTIGATIONS WERE PERFORMED FOR DESIGN AND ESTIMATING PURPOSES AND ARE PROVIDED IN THE BIDDING DOCUMENTS. LOGS AND TEST DATA ARE NOT WARRANTED TO SHOW THE ACTUAL SUBSURFACE CONDITIONS. THE CONTRACTOR SHALL EXAMINE THIS INFORMATION AND OBTAIN ADDITIONAL INFORMATION AT HIS OWN EXPENSE - IN HIS JUDGEMENT.

THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN EXISTED BEFORE CONSTRUCTION. DRAINAGE DITCHES OR WATER COURSES THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE GRADES AND CROSS-SECTIONS THAT EXISTED BEFORE CONSTRUCTION.

NON-RUBBER Tired VEHICLES SHALL NOT BE MOVED ON OR ACROSS PUBLIC STREETS OR HIGHWAYS WITHOUT THE PERMISSION OF THE CITY ENGINEER.

TRACKING OR SPILLING MUD, DIRT, OR DEBRIS UPON STREETS, RESIDENTIAL OR COMMERCIAL DRIVES, SIDEWALKS, OR BIKE PATHS IS PROHIBITED AND ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR. IF THE CONTRACTOR FAILS TO REMOVE THE MUD, DIRT, DEBRIS, OR SPILLAGE, THE CITY OF DUBLIN RESERVES THE RIGHT TO REMOVE THESE MATERIALS AND CLEAN AFFECTED AREAS, THE COST OF WHICH SHALL BE WITHHELD FROM MONIES THAT ARE DUE THE CONTRACTOR.

ALL SIGNS, LANDSCAPING, STRUCTURES, OR OTHER APPURTENANCES DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE PAID FOR BY THE CONTRACTOR.

ALL PRECAST CONCRETE PRODUCTS SHALL BE INSPECTED AT THE LOCATION OF MANUFACTURE. APPROVED PRECAST CONCRETE PRODUCTS WILL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT INSPECTION HAS BEEN PERFORMED BY THE ENGINEER. PRECAST CONCRETE PRODUCTS WITHOUT PROOF OF INSPECTION SHALL NOT BE APPROVED FOR INSTALLATION.

EXCESS EXCAVATED MATERIAL FROM THIS PROJECT SHALL BE HAULED OFFSITE BY THE CONTRACTOR AND COMPENSATION FOR HAULING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203, EXCAVATION.

THE COST OF ALL ASPHALT PAVEMENT REMOVAL AND DISPOSAL SHALL BE INCLUDED IN THE PRICE BID PER CUBIC YARD FOR ITEM 203, EXCAVATION. AN ESTIMATED QUANTITY OF 1250 CU. YD. OF ASPHALT PAVEMENT REMOVAL AND DISPOSAL HAS BEEN CARRIED TO THE GENERAL SUMMARY, AND IS INCLUDED IN THE TOTAL QUANTITY OF ITEM 203, EXCAVATION.

THE CONTRACTOR'S CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED SO AS TO ELIMINATE ALL UNNECESSARY NOISE, DUST, AND ODOORS. THE USE OF OIL OR OTHER MATERIAL FOR DUST CONTROL, WHICH MAY CAUSE TRACKING, IS NOT PERMITTED.

TRENCH EXCAVATION SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF TRENCH OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.

IN THE EVENT THAT IT BECOMES NECESSARY FOR THE CITY TO PERFORM WORK OF AN IMMEDIATE NATURE (SUCH AS THE PLACEMENT OF BARRICADES OR REPLACEMENT OF SIGNS AND OTHER WARNING OR PROTECTIVE DEVICES) BECAUSE OF FAILURE OR REFUSAL OF THE CONTRACTOR TO PERFORM SUCH WORK AS REQUIRED BY THE CONTRACT, THE CONTRACTOR SHALL REIMBURSE THE CITY AT THE RATE OF 2.5 TIMES THE ACTUAL COST OF LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO PERFORM SUCH WORK. THE CITY SHALL BE REQUIRED TO NOTIFY OR ATTEMPT TO NOTIFY THE DESIGNATED REPRESENTATIVE OF THE CONTRACTOR OF THE NECESSITY TO PERFORM SUCH WORK. IF THE CONTRACTOR REFUSES OR FAILS WITHIN A REASONABLE TIME TO PERFORM OR CAUSE THE PERFORMANCE OF SUCH WORK, THE CITY SHALL BE REIMBURSED BY THE CONTRACTOR IN THE AMOUNT PROVIDED HEREIN BY WAY OF A DEDUCTION FROM THE CONTRACTOR'S NEXT PAYMENT UNDER THE CONTRACT. REASONABLE TIME FOR ALL STREETS INVOLVED ON THIS CONTRACT IS 1 HOUR FROM THE TIME OF NOTIFICATION BY THE CITY.

ALL NON-PAVEMENT AREAS DISTURBED WITHIN THE DESIGNATED EASEMENTS, RIGHTS-OF-WAY, AND LIMITS OF DISTURBANCE AS SHOWN, SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH ITEM SPECIAL - SEEDING AND MULCHING, AS PER PLAN. ALL AREAS DISTURBED OUTSIDE THESE LIMITS SHALL BE SEEDED AND MULCHED AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT U.S. MAIL DELIVERY WITHIN THE PROJECT LIMITS IS NOT INTERRUPTED BY CONSTRUCTION OPERATIONS. THIS RESPONSIBILITY IS LIMITED TO RELOCATION OF MAILBOXES TO A TEMPORARY LOCATION THAT WILL NOT INTERFERE WITH THE COMPLETION OF THE WORK AND SHALL ALSO INCLUDE THE RESTORATION OF MAILBOXES TO THEIR ORIGINAL LOCATION OR APPROVED NEW LOCATION. ANY RELOCATION OF MAILBOX SERVICES MUST FIRST BE COORDINATED WITH THE U.S. POSTAL SERVICE AND AFFECTED PROPERTY OWNERS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICES BID FOR THE VARIOUS ITEMS OF THE CONTRACT.

**ITEM 653 - TOPSOIL FURNISHED AND PLACED, AS PER PLAN**

A MINIMUM 3 INCHES OF TOPSOIL SHALL BE PLACED IN ALL AREAS TO BE SEEDED. PRIOR TO PLACING TOPSOIL IN CUT AREAS, THE EARTH SHALL BE EXCAVATED TO A DEPTH SUFFICIENT TO PLACE 3 INCHES OF TOPSOIL. THE COST OF EXCAVATION AND DISPOSAL OF SURPLUS MATERIALS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE VARIOUS CONTRACT ITEMS.

TOPSOIL SHALL BE REMOVED AND WASTED OR UTILIZED IN NON-LOAD BEARING FILLS IN ACCORDANCE WITH THE SPECIFICATIONS. NO EXTRA COMPENSATION SHALL BE PAID FOR THE REMOVAL OF EXCESS TOPSOIL AS REQUIRED TO OBTAIN A SUITABLE SUBGRADE. PAYMENT FOR TOPSOIL REMOVAL IS INCLUDED IN ITEM 203, EXCAVATION.

ALL TOPSOIL MATERIALS AND FINAL AREA OF SUBGRADE PREPARATION SHALL BE FREE FROM ROCK AND OTHER FOREIGN MATERIAL \* OR GREATER IN ANY DIMENSION.

**ITEM 659 - SEEDING AND MULCHING, AS PER PLAN**

SEED - CERTIFICATION OF GRASS SEED SHALL BE PROVIDED BY SEED VENDOR FOR EACH GRASS-SEED MIXTURE STATING THE BOTANICAL AND COMMON NAME, PERCENTAGE BY WEIGHT OF EACH SPECIES AND VARIETY; AND PERCENTAGE OF PURITY, GERMINATION, AND WEED SEED. INCLUDE THE YEAR OF PRODUCTION AND DATE OF PACKAGING. FURNISH NATIONAL TURFGRASS EVALUATION PROGRAM (NTEP) DATA FOR EACH SPECIES TO BE USED.

GRASS SEED MUST BE FRESH, CLEAN, DRY, NEW-CROP SEED COMPLYING WITH THE A.O.S.A. "JOURNAL OF SEED TECHNOLOGY" RULES FOR TESTING SEEDS FOR PURITY AND GERMINATION TOLERANCES.

SEED SPECIES SHALL BE AS FOLLOWS, WITH NOT LESS THAN 90 PERCENT GERMINATION, NOT LESS THAN 98 PERCENT PURE SEED, AND NOT MORE THAN 0.5 PERCENT WEED SEED.

TURFGRASS SEED MIX PROPORTIONED BY WEIGHT:

- A. 80 PERCENT TALL FESCUE (FESTUCA ARUNDINACEA), WITH A MINIMUM OF 3 IMPROVED TURF-TYPE VARIETIES, KENTUCKY-31 AND ALTA VARIETIES ARE NOT APPROVED.
- B. 20 PERCENT PERENNIAL RYEGRASS (LOLIUM PERENNE).

SEEDING - SOW SEED AT A TOTAL RATE OF 7.9 LB. / 1,000 S.F. WITH A SPREADER OR SEEDING MACHINE. RAKE SEED LIGHTLY INTO TOP 1/8 INCH OF SOIL. ROLL LIGHTLY, AND WATER WITH FINE SPRAY. THOROUGHLY COVER WITH STRAW AND NETTING. NETTING SHALL BE ADEQUATELY PINNED TO PREVENT THE STRAW FROM BEING BLOWN OR WASHED AWAY.

PROTECT SEEDED AREAS WITH SLOPES EXCEEDING 3:1 WITH EROSION CONTROL BLANKETS AS DIRECTED BY THE ENGINEER. COST OF EROSION CONTROL BLANKETS, MATERIAL, AND LABOR SHALL BE PAID FOR BY THE CITY.

HYDRO-SEEDING & HYDRO-MULCHING ARE NOT PERMITTED

TURF MAINTENANCE - MAINTAIN AND ESTABLISH TURF BY WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING, AND REPLANTING TO ESTABLISH HEALTHY, VIABLE TURF. ROLL, REGRADE, AND REPLANT BARE OR ERODED AREAS AND REMULCH TO PRODUCE A UNIFORMLY SMOOTH TURF. PROVIDE THE SAME MATERIALS AND INSTALLATION AS THOSE USED IN THE ORIGINAL INSTALLATION. WATER TURF WITH FINE SPRAY AT A MINIMUM RATE OF 1 INCH PER WEEK UNLESS RAINFALL PRECIPITATION IS ADEQUATE.

MOW TURFGRASS SEED MIX AREAS AS SOON AS TOP GROWTH IS TALL ENOUGH TO CUT. REPEAT MOWING TO MAINTAIN SPECIFIED HEIGHT WITHOUT CUTTING MORE THAN 1/3 OF GRASS HEIGHT. MOW AREAS TO A HEIGHT OF 2 TO 3 INCHES.

**DRAINAGE**

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO AS TO MAINTAIN AT ALL TIMES STORM SEWER, DRAIN, AND DITCH FLOWS THROUGH EXISTING FACILITIES UNTIL NEW FACILITIES ARE COMPLETED AND PUT INTO SERVICE. THE FLOW OF ALL STORM SEWERS, DRAINS, AND OTHER WATER COURSES ENCOUNTERED AND DISTURBED OR DESTROYED DURING THE PROSECUTION OF THE WORK SHALL BE RESTORED BY THE CONTRACTOR TO A CONDITION SATISFACTORY TO THE CITY ENGINEER. PAYMENT FOR THIS SHALL BE INCLUDED IN THE PRICES BID FOR THE VARIOUS ITEMS OF THE CONTRACT.

ALL FIELD TILE BROKEN OR ENCOUNTERED DURING EXCAVATION SHALL BE REPLACED OR REPAIRED IN LIKE KIND AND CONNECTED TO THE NEAREST STORM SEWER OR OPEN CHANNEL OUTLET, RESTORING NORMAL FUNCTION TO THE TILE, AS DIRECTED BY THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICES BID FOR THE VARIOUS ITEMS OF THE CONTRACT.

WHERE THE WORK CALLS FOR RELOCATION OF EXISTING DITCHES OR STORM SEWER, THE CONTRACTOR SHALL REESTABLISH THE OUTLETS OF ALL PRIVATE DRAINS ENCOUNTERED; SUCH AS DOWNSPOUTS, FOUNDATION DRAINS, CATCH BASINS, YARD DRAINS, ETC., INTO THE NEAREST NEW DITCH OR STORM SEWER. THE COST FOR REESTABLISHING PRIVATE DRAIN OUTLETS SHALL BE INCLUDED IN THE VARIOUS STORM SEWER ITEMS.

ITEM 601 ROCK CHANNEL PROTECTION, TYPE D WITH FILTER FABRIC SHALL BE PROVIDED AT THE OUTLET END OF ALL STORM SEWERS AND THE LOCATIONS AND DIMENSIONS SHOWN ON THE PLANS. ITEM 601 ROCK MATERIALS SHALL CONSIST OF NATURAL, BROKEN, OR CRUSHED ROCK. BROKEN CONCRETE MATERIALS ARE UNACCEPTABLE. THE FILTER UNDERLYING ROCK CHANNEL PROTECTION SHALL BE FILTER FABRIC AS PER SECTION 601.08.

HDPE FLARED ENDS CALLED FOR ON THE PLANS SHALL BE ADVANCED DRAINAGE SYSTEMS (ADS) "FLARED END SECTIONS", OR APPROVED EQUAL, WITH THREADED RODS AND WING NUTS. N-12 ADAPTER FITTINGS FOR CONNECTION TO CONCRETE PIPE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE FLARED END SECTIONS.

**BACKFILL**

BACKFILL WITHIN A 1:1 INFLUENCE LINE OF EXISTING STRUCTURES (PAVEMENTS, SIDEWALKS, CURBS, ETC.) SHALL BE ITEM 912, COMPACTED GRANULAR MATERIAL, OR ITEM 636, TYPE 2.

TRENCHES WITHIN 2 FEET OF PROPOSED PAVEMENT, CURB AND GUTTER, BERM, SHOULDERS, SIDEWALK, OR BIKE PATH, OR WHERE SPECIFICALLY CALLED FOR ON THE PLANS, SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS.

GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS. THE GRANULAR BACKFILL SHALL BE COMPACTED TO ITEM 636, TYPE 2, OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER. ITEM 912 MATERIAL SHALL CONSIST OF NATURAL, BROKEN, OR CRUSHED ROCK. SYNTHETIC OR MANMADE MATERIALS ARE UNACCEPTABLE.

ALL TRENCHES WITHIN PAVEMENT, BERM, AND SHOULDER LIMITS SHALL BE BACKFILLED OR SECURELY PLATED DURING NON-WORKING HOURS. TRENCHES OUTSIDE THESE AREAS SHALL BE BACKFILLED OR SHALL BE PROTECTED BY APPROVED TEMPORARY FENCING OR BARRICADES DURING NON-WORKING HOURS. CLEAN UP SHALL FOLLOW CLOSELY BEHIND THE TRENCHING OPERATION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF THE TRENCHES FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE OF THE WORK, AND SHALL MAKE ANY NECESSARY REPAIRS AT NO COST TO THE CITY.

**SUBGRADE**

ALL SOIL SUBGRADES SHALL BE PREPARED AND COMPACTED IN ACCORDANCE WITH ITEM 204 TO A DEPTH OF 12-INCHES BELOW THE SUBGRADE SURFACE. SUBGRADE SHALL BE SCARIFIED AND CONTAIN SUFFICIENT MOISTURE TO MEET ITEM 204 COMPACTION REQUIREMENTS.

SUBGRADE COMPACTION SHALL ALSO BE REQUIRED UNDER SIDEWALKS, BIKE PATHS, AND BRICK PAVER AREAS AND SHALL FOLLOW THE REQUIREMENTS FOR COMPACTION UNDER DRIVEWAYS AS DESCRIBED IN SECTION 204.03. THE COST SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 204, SUBGRADE COMPACTION.

THE CONTRACTOR SHALL DEFINE THE LIMITS OF ANY WEAK SOILS ENCOUNTERED BY PROOF ROLLING, WHERE SOFT SUBGRADE IS ENCOUNTERED IN CUTS. DUE TO NO FAULT OF THE CONTRACTOR, AND SATISFACTORY COMPACTION CANNOT BE OBTAINED, THE UNSTABLE MATERIAL SHALL BE REMOVED AND REPLACED PER SECTION 204.04. THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED AS AN ALLOWANCE FOR BIDDING PURPOSES.

ITEM 204	EXCAVATION OF SUBGRADE XXX CY
ITEM 204	GRANULAR STONE EMBANKMENT, XXX CY NO. 2 STONE

THE CONTRACTOR SHALL DISPOSE OF ALL EXCESS EXCAVATION AT SUCH LOCATION ON THE PROJECT SITE AS APPROVED BY THE ENGINEER. FOR DISPOSAL OUTSIDE THE LIMITS OF THE PROJECT THE CONTRACTOR SHALL PROVIDE A COPY OF THE SIGNED, WRITTEN AGREEMENT BETWEEN THE CONTRACTOR AND THE OFF-SITE LANDOWNER BEFORE SUCH DISPOSAL OCCURS. THIS WRITTEN AGREEMENT SHALL CLEARLY STATE THE PURPOSE OF THE AGREEMENT AND INDICATE THE LANDOWNER'S PERMISSION FOR SUCH USE.

**PAVEMENT**

PAVEMENTS SHALL BE CUT IN NEAT, STRAIGHT LINES TO THE FULL DEPTH OF THE PAVEMENT, OR AS REQUIRED BY THE CITY ENGINEER.

BUTT JOINTS BETWEEN EXISTING AND NEW PAVEMENT SHALL BE MADE WHERE INDICATED ON THE PLANS IN ACCORDANCE WITH ODOT STD. CONSTRUCTION DWG. BP-3.1.

TOP OF PAVEMENT ELEVATIONS SHOWN ON THE PAVEMENT DETAILS (SHEETS 61-62) MAY REFLECT DEVIATIONS FROM THE ROADWAY PROFILES AND TYPICAL SECTION CROSS SLOPES IN SOME AREAS DUE TO PAVEMENT WARPIING. IN ALL CASES, THE TOP OF PAVEMENT ELEVATIONS SHOWN ON THE PAVEMENT DETAILS SHALL GOVERN.

THE CONTRACTOR SHALL SUBMIT TO THE CITY ENGINEER AT THE PRECONSTRUCTION MEETING HIS PROPOSED DESIGN MIX FORMULA FOR ALL BITUMINOUS MIXTURES TO BE PLACED ON THE PROJECT FOR REVIEW AND APPROVAL. A DESIGN MIX FORMULA SHALL BE SUBMITTED FOR EACH MIXTURE AND EACH PRODUCER AND SHALL PROVIDE GRADATION OF ALL COMPONENT AGGREGATES, PERCENTAGE OF BLENDING OF AGGREGATES, PERCENTAGE OF BITUMEN, ANY ADDITIVES AND APPLICATION RATE, NAMES AND ADDRESSES OF AGGREGATE SUPPLIERS, MARSHALL MIX DESIGN DATA, AND THE THEORETICAL LABORATORY DENSITY.

**WATER**

ALL WATER MAIN MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT RULES AND REGULATIONS OF THE CITY OF COLUMBUS, DIVISION OF POWER AND WATER (WATER).

IT SHALL BE UNLAWFUL FOR ANY PERSON TO PERFORM ANY WORK ON CITY OF COLUMBUS WATER LINE SYSTEMS WITHOUT FIRST SECURING LICENSE TO ENGAGE IN SUCH WORK, AS INDICATED IN COLUMBUS CITY CODE SECTION 1103.02 AND 1103.06. THIS WORK INCLUDES ANY ATTACHMENTS, ADDITIONS TO OR ALTERATIONS IN ANY CITY SERVICE PIPE OR APPURTENANCES (INCLUDING WATER SERVICE LINES AND TAPS). THIS REQUIREMENT MAY BE MET BY UTILIZATION OF A SUBCONTRACTOR WHO HOLDS A CITY OF COLUMBUS WATER CONTRACTOR LICENSE OR A COMBINED WATER/SEWER CONTRACTOR LICENSE TO PERFORM THIS WORK. UTILIZATION OF A SUBCONTRACTOR MUST MEET THE LICENSING REQUIREMENTS OF THE CITY OF COLUMBUS BUILDING CODE. IN PARTICULAR SECTION 4114.119 AND 4114.529.

NO PERSON SHALL BEGIN CONSTRUCTION OR INSTALLATION OF A PUBLIC WATER MAIN UNTIL PLANS HAVE BEEN APPROVED BY THE STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA).

ALL WATER MAINS SHALL BE CLEANED AND FLUSHED, ALSO ANY WATER MAIN 12-INCH AND LARGER MUST BE PROPERLY PIGGED, IN ACCORDANCE WITH SECTION 801.11 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS.

ALL WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH SECTION 801.12 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS.

ALL WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH SECTION 801.13 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS. SPECIAL ATTENTION IS DIRECTED TO APPLICATIONS OF A.W.W.A. C-651. WHEN THE WATER MAINS ARE READY FOR DISINFECTION, THE CITY OF DUBLIN SHALL SUBMIT TWO (2) SETS OF "AS-BUILT" PLANS (FULL SIZE SHEETS ONLY), THE AS-BUILT SURVEY COORDINATES, AND A LETTER STATING THAT THE WATER MAINS HAVE BEEN PRESSURE TESTED AND NEED TO BE DISINFECTED, TO THE CITY OF COLUMBUS, DIVISION OF POWER AND WATER (WATER). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE DISINFECTION OF ALL WATER MAINS CONSTRUCTED UNDER THIS PLAN.

THE CONTRACTOR SHALL WRAP ALL DUCTILE IRON PIPE WITH TUBE STYLE 8 MIL LINEAL LOW DENSITY POLYETHYLENE (LDPE) FILM MADE FROM VIRGIN POLYETHYLENE ONLY (NO RECYCLE MATERIAL) PER A.W.W.A. C-105. THE COLOR SHALL BE BLACK WITH NOMINAL 2% CARBON BLACK UV INHIBITOR AND PRINTED PER THE A.W.W.A. C-105 STANDARD. INSTALLATION SHALL BE DONE IN ACCORDANCE WITH THE "POLYETHYLENE ENCASEMENT INSTALLATION GUIDE" WRITTEN BY THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA).

ALL LUMPS OF CLAY, MUD, CINDEES, ETC. ON THE PIPE SURFACE SHALL BE REMOVED BEFORE THE PIPE IS COVERED WITH POLYETHYLENE. WHEN LIFTING POLYETHYLENE-ENCASED PIPE USE A FABRIC TYPE SLING OR PADDED CABLE. JOINTS SHALL BE OVERLAPPED AND TAPED. FOLD EXCESS SLACK OVER THE TOP OF THE PIPE AND TAPE EVERY THREE (3) FEET. SHALL HOLES OR TEARS SHALL BE REPAIRED WITH A PIECE OF TAPE PLACED OVER THE HOLE. LARGE HOLES OR TEARS SHOULD BE REPAIRED BY TAPPING ANOTHER PIECE OF POLYETHYLENE OVER THE HOLE. TO AVOID DAMAGED BAGS DURING BACKFILLING, SLACK IN THE TUB TUBE AT JOINTS, BACKFILL MATERIAL SHALL BE FREE OF CINDEES, ROCKS, BOULDERS, NAILS, STICKS OR OTHER MATERIAL THAT WILL DAMAGE THE POLYETHYLENE SLEEVE.

APPURTENANCES SUCH AS BOLTED JOINTS, VALVES, SERVICE TAPS SHALL ALSO BE WRAPPED. FOR SERVICE TAPS, WRAP TWO/THREE LAYERS OF TAPE COMPLETELY AROUND THE POLYETHYLENE-ENCASED PIPE TO COVER THE AREA WHERE TAPPING MACHINE WILL CONTACT THE PIPE. INSTALL CORROSION STOP DIRECTLY THROUGH THE TAPE AND POLYETHYLENE. WRAP COPPER SERVICE AT LEAST THREE (3) FEET BACK FROM INSTALLATION WITH TAPE AND ADDITIONAL POLYETHYLENE FILM TO PREVENT ELECTROLYSIS.

ALL WORK NECESSARY TO FURNISH AND INSTALL THE POLYETHYLENE ENCASEMENT SHALL BE INCLUDED IN ITEM 801.

WATER SERVICE BOXES SHALL BE PLACED ONE (1) FOOT FROM THE EDGE OF THE PROPOSED OR EXISTING SIDEWALK BETWEEN THE CURB AND THE CURB, OR TWO (2) FEET INSIDE THE RIGHT-OF-WAY OR EASEMENT LINE WHEN NO SIDEWALK IS PRESENT OR PROPOSED. REFER TO STANDARD DRAWING L-9901 FOR ADDITIONAL INFORMATION.

"SURVEY COORDINATES" SHALL INCLUDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO OBTAIN HORIZONTAL AND VERTICAL (NORTHING, EASTING, AND ELEVATION) SURVEY COORDINATES FOR THE WATER MAIN IMPROVEMENTS. THE SURVEY COORDINATES SHALL BE OBTAINED FOR THE COMPLETED WATER MAIN CONSTRUCTION AND SHALL INCLUDE ALL VALVES, TEES, CROSSES, BENDS, DEFLECTIONS, PLUGS, REDUCERS, TAPPING SLEEVES, BLOW OFFS, CHLORINATION TAPS, FIRE HYDRANTS, AIR RELEASES, CURB STOPS, CASING PIPE TERMINI, AND OTHER FITTINGS. ADDITIONAL SURVEY COORDINATES ARE REQUIRED ON THE WATER MAIN EVERY 500 FEET WHERE NO FITTING OR OTHER WATER MAIN STRUCTURE IS BEING INSTALLED WITHIN THAT LENGTH OF THE IMPROVEMENT.

ALL SURVEY COORDINATES SHALL BE REFERENCED TO THE APPLICABLE COUNTY ENGINEER'S MONUMENTS, AND SHALL BE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83) WITH THE (1986) ADJUSTMENT, WITH FURTHER REFERENCE MADE TO THE OHIO STATE PLANE SOUTH COORDINATE SYSTEM, SOUTH ZONE, WITH ELEVATIONS BASED ON NAVD 88 DATUM. ALL COORDINATES (NORTHING, EASTING, ELEVATION) SHALL BE REFERENCED TO THE NEAREST HUNDRETH (N XXXXXX.XX, E XXXXXX.XX, ELEV. XXX.XX). ALL SURVEY COORDINATES SHALL BE ACCURATE TO WITHIN 1.0 FOOT OR LESS.

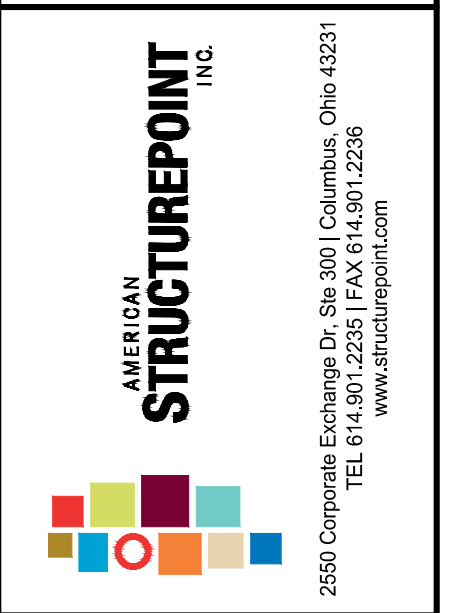
THE COORDINATES SHALL BE DOCUMENTED TO THE MUNICIPALITY ENGINEER OR DESIGNATED REPRESENTATIVE IN DIGITAL SPREADSHEET FORM AND SHALL INCLUDE THE APPLICABLE ITEM, STATION, NORTHING, EASTING, AND ELEVATION. COORDINATES SHALL BE SUBMITTED TO THE MUNICIPALITY ENGINEER OR DESIGNATED REPRESENTATIVE ON A BI-WEEKLY BASIS. COORDINATES SHALL ALSO BE REQUIRED TO BE SUBMITTED TO THE DIVISION OF POWER AND WATER AS PART OF THE REQUEST FOR CHLORINATION.

LUMP SUM PAYMENT IS FULL COMPENSATION FOR ALL WORK INVOLVED IN OBTAINING AND DOCUMENTING THE SURVEY COORDINATES AS DESCRIBED IN THIS SPECIFICATION.

FIRE HYDRANT RELOCATIONS SHALL CONFORM TO APPLICABLE SECTIONS OF ITEM 809 OF THE COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS. WORK SHALL CONSIST OF REMOVING THE EXISTING HYDRANT, INSTALLING NEW 6" PIPE AND FITTING AS REQUIRED TO LOCATE THE FIRE HYDRANT 2 FEET FROM BACK OF PROPOSED CURB OR 8 FEET OFF EDGE OF PAVEMENT, RESETTling HYDRANT AND BLOCKING AS REQUIRED. ALL 6" PIPE SHALL BE INSTALLED AT 4'-0" MINIMUM COVER. HYDRANT EXTENSIONS SHALL BE PROVIDED PER ITEM 810, AS REQUIRED. RELOCATED FIRE HYDRANTS SHALL BE ADJUSTED TO PROPER GRADE AND FACED IN THE PROPER DIRECTION. WHEN ANY HYDRANT IS RELOCATED TEN (10) FEET OR MORE FROM THE "TYPICAL HYDRANT SETTING" VALVE LOCATION (SEE L-6409 & L-6637), AN ADDITIONAL VALVE SHALL BE INSTALLED, AND RESTRAINED, WITHIN TWO (2) FEET OF THE RELOCATED HYDRANT. PAYMENT IS TO BE INCLUDED UNDER ITEM 809, FIRE HYDRANT RELOCATED.

NO TWO (2) ADJACENT FIRE HYDRANTS SHALL BE TAKEN OUT OF SERVICE CONCURRENTLY.

RELOCATED FIRE HYDRANTS SHALL BE PUT BACK IN SERVICE AS SOON AS POSSIBLE.



**GENERAL NOTES**

PUBLIC ROADWAY WIDENING PLANS FOR SCHIER RINGS ROAD CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	07/09/2021
DRAWN BY:	GPB
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

PLOT SCALE: 1"=80 FT. | EDIT DATE: 7/9/21 - 1:46 PM | EDITED BY: B. JOHNSON | DRAWING FILE: C:\2019\01745.DWG | DRAWINGS\CIVIL\CONSTRUCTION\DOCUMENTS\PUBLIC\ROADWAY\2019\01745.CE.TS.DWG

**STORM SEWER**

ALL STORM SEWERS SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C76, WALL B, CLASS IV FOR PIPE DIAMETERS 12 INCHES TO 15 INCHES AND CLASS III FOR 18 INCHES AND LARGER, UNLESS OTHERWISE SHOWN ON THE PLANS.

THE CONTRACTOR SHALL INCLUDE THE COST OF CONNECTION TO EXISTING STRUCTURES IN THE UNIT PRICE BID FOR THE VARIOUS 901 ITEMS. ALL MANHOLE CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE PROVISIONS OF ITEM 604.

ALL INLETS, CATCH BASINS, AND MANHOLES SHALL BE CHANNELIZED.

ALL CATCH BASINS AND CURB INLETS MUST BE FURNISHED WITH BIKE SAFE GRATES.

WHEREVER REFERENCE IS MADE TO THE ELEVATION TERM "TC" ON THE PLANS, THIS ABBREVIATION SHALL BE UNDERSTOOD AS MEANING THE FOLLOWING:

STRUCTURE	"TC" ELEVATION LOCATION
PROPOSED CATCH BASINS	TOP OF CASTING
PROPOSED CURB INLET	TOP OF CURB

BEFORE ANY WORK IS STARTED ON THE PROJECT, AND AGAIN BEFORE FINAL ACCEPTANCE BY THE CITY, REPRESENTATIVES OF THE CITY AND THE CONTRACTOR SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE CITY.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY ENGINEER.

ALL NEW CONDUITS, INLETS, CATCH BASINS AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEANED CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE CITY.

PAYMENT FOR ALL INSPECTIONS, CLEANING, AND MAINTENANCE OF EXISTING AND NEW STORM SEWER SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RELATED ITEMS.

WHERE PLANS CALL FOR CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES FOR BOTH LINE AND GRADE PRIOR TO THE START OF PIPE LAYING.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT OR EXISTING APPURTENANCE TO BE CONNECTED DIFFERS FROM THE PLAN ELEVATION, THE CITY ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT A PROPOSED CONDUIT WILL CONFLICT WITH AN EXISTING SEWER OR UNDERGROUND UTILITY WHEN CONSTRUCTED AS SHOWN ON THE PLAN, THE CITY ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION ON ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE CONFLICT.

PAYMENT FOR THE DETERMINATION OF LINE AND GRADE OF EXISTING UTILITIES AS REQUIRED SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT CONTRACT ITEMS.

**AMERICANS WITH DISABILITIES ACT (ADA)**

ALL SIDEWALKS, PEDESTRIAN PATHS, CURB RAMPS, AND DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST STANDARDS OF THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAGG).

THE ELEVATIONS AND SLOPES PROVIDED ON THE DRAWINGS ARE INTENDED TO CONVEY A DESIGN THAT IS COMPATIBLE WITH ADA GUIDELINES. THE CONTRACTOR SHALL DETERMINE THE EXISTING ELEVATIONS OF ADJACENT NEW OR EXISTING CONCRETE CURB AND ADJACENT NEW OR EXISTING WALK PRIOR TO THE START OF RAMP CONSTRUCTION. ADJUSTMENTS IN GRADE SHALL BE MADE BY THE CONTRACTOR BASED ON THE ELEVATION INFORMATION TO INSURE THAT THE FINISHED WORK IS IN ACCORDANCE WITH ADA GUIDELINES.

ALL DETECTABLE WARNINGS SHALL BE ADA SOLUTIONS TACTILE WARNING SURFACE MATS - REPLACEABLE WET-SET COMPOSITE TACTILE WITH A DOME SPACING OF 2.35 INCHES. MANUFACTURER PART NUMBER 2448REP. BRICK RED COLOR SHALL BE USED IN MOST LOCATIONS UNLESS OTHERWISE NOTED. THE COST OF THIS WORK WILL BE PAID AT THE UNIT PRICE BID PER EACH, AND SHALL BE IN ADDITION TO ANY OVERLAPPING PAYMENTS PER SQUARE FOOT FOR SIDEWALK OR PEDESTRIAN PATH.

**UTILITIES**

UTILITIES KNOWN TO BE LOCATED WITHIN THE LIMITS OF THIS PROJECT ARE LISTED BELOW WITH CONTACT INFORMATION.

AMERICAN ELECTRIC POWER PUBLIC PROJECT COORD. 850 TECH CENTER DRIVE GAHANNA, OHIO 43230 (614) 883-6831 ATTN: MR. PAUL PAXTON CELL: (614) 949-8883	TIME WARNER CABLE CONSTRUCTION SUPERVISOR 3760 INTERCHANGE ROAD COLUMBUS, OHIO 43204 (614) 481-5262 ATTN: RAY MAURER CELL: (614) 348-2979
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AMERICAN ELECTRIC POWER TRANS. LINE ENGINEERING MAN. 700 MORRISON ROAD GAHANNA, OHIO 43230 (614) 552-1180 ATTN: MR. JEFF MOMME	TIME WARNER TELECOM 250 W. OLD WILSON BRIDGE RD WORTHINGTON, OHIO 43085 (614) 255-2126 ATTN: MR. RON LEFFLER CELL: (614) 774-3068
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AT&T (CONDUIT) 111 NORTH FOURTH ST. 8TH FLOOR COLUMBUS, OHIO 43215 (614) 223-7276 ATTN: MR. GARY VAN ALMSICK	CITY OF DUBLIN DIVISION OF ENGINEERING 5800 SHIER-RINGS ROAD DUBLIN, OHIO 43016 (614) 410-4631 ATTN: MR. KEN RICHARDSON, P.E., P.S.
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AT&T (CABLE) 111 NORTH FOURTH ST. 8TH FLOOR COLUMBUS, OH 43215 (614) 223-7162 ATTN: MR. TOM ZIOMEK	
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THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT TO OHIO UTILITIES PROTECTION SERVICE (TELEPHONE NUMBER 800-362-2764) AND TO OWNERS OF UNDERGROUND UTILITIES THAT ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE. NOTICE SHALL BE GIVEN AT LEAST 2 WORKING DAYS BEFORE START OF CONSTRUCTION.

THE IDENTITY AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE PLANS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE CITY AND THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR DEPTHS OF UNDERGROUND FACILITIES SHOWN ON THE PLANS. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF THE SAME AND FOR ANY RESULTING CONTINGENT DAMAGE.

LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, SHOWN OR NOT SHOWN ON THE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICES BID FOR THE VARIOUS ITEMS OF THE CONTRACT.

WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY OWNER AND THE CITY ENGINEER.

**ESTIMATE OF QUANTITIES**

THESE QUANTITIES HAVE BEEN PROVIDED ONLY AS AN ESTIMATE TO THE SCOPE OF THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO EVALUATE THE COMPLETE PROJECT AS DETAILED IN THE NOTES, PLANS, AND SPECIFICATIONS AND PROCEDURES NECESSARY FOR THE COMPLETION OF THE PLAN IMPROVEMENTS AND SUBMIT HIS TOTAL PROJECT COST ACCORDINGLY.

**ROADWAY**

ITEM	QUANTITY	UNIT	DESCRIPTION
201	LUMP	SUM	CLEARING AND GRUBBING
202	20	LF	REMOVE CURB & GUTTER
202	33	SF	CONCRETE REMOVAL
202	9	SY	PAVEMENT REMOVAL
203	420	CY	EXCAVATION
203	2,368	CY	EMBANKMENT
204	1,515	SY	SUBGRADE COMPACTION
301	191	CY	BITUMINOUS AGGREGATE BASE
304	167	CY	AGGREGATE BASE
448*	40	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE I, MEDIUM TRAFFIC, PG64-22
448*	56	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE II, MEDIUM TRAFFIC, PG64-22
609	784	LF	CURB & GUTTER
659	3,300	SY	SEEDING & MULCHING
SPEC	1	LUMP	PROOF SURVEY, A.P.P.

**STORM**

601	5	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER
604	1	EACH	48" TYPE "C" MANHOLE (AA-S102) W/ CITY OF DUBLIN LID (ST-03)
604	2	EA	PRECAST HEADWALL (AA-S168)
604	2	EACH	CURB & GUTTER INLET (AA-S125A) W/ GRATE (ST-04)
901	164	LF	21" STORM PIPE, WITH ITEM 912 BACKFILL
901	48	LF	24" STORM PIPE, WITH ITEM 912 BACKFILL

**WATER**

801	486	LF	16" WATER PIPE & FITTINGS
801	6	LF	6" WATER PIPE & FITTINGS
802	2	EA	8"X6" TEE
802	2	EA	6" VALVE & APPURTENANCES
809	2	EA	FIRE HYDRANT, TYPE B
SPEC	1	LUMP	CONNECT TO EXISTING 16" WATER
SPEC	1	LUMP	SURVEY COORDINATES

**EROSION CONTROL**

207	3,300	SY	TEMPORARY SEEDING AND MULCHING
SPEC	4	EA	NO. 2 STONE CHECK DAM
SPEC	5	EA	INLET PROTECTION

**MAINTENANCE OF TRAFFIC\***

614	1	LUMP	MAINTAINING TRAFFIC
CALCULATED BY: GPB DATE: 06/29/2021 CHECKED BY: JRP 06/29/2021			



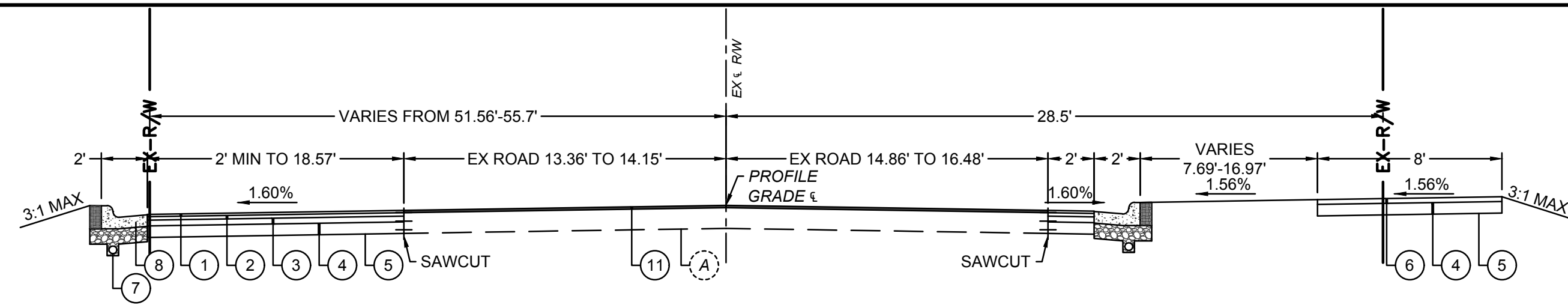
PUBLIC ROADWAY WIDENING PLANS  
FOR  
**SCHIER RINGS ROAD**  
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
**GENERAL NOTES & SUMMARY**

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	07/09/2021
DRAWN BY:	GPB
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

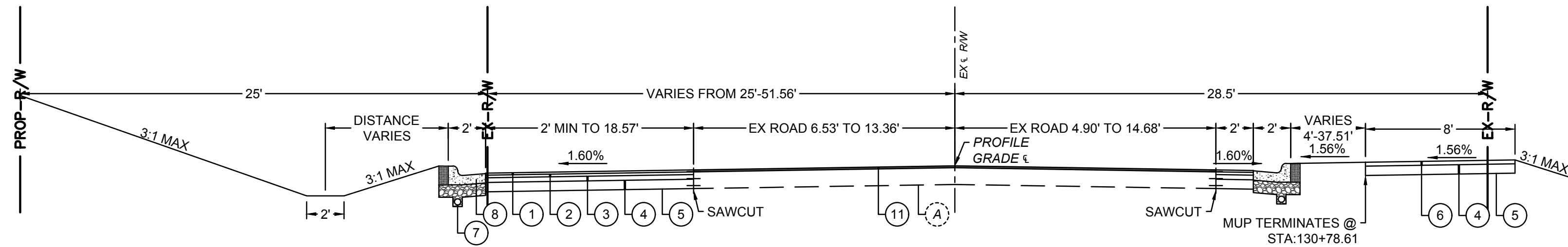
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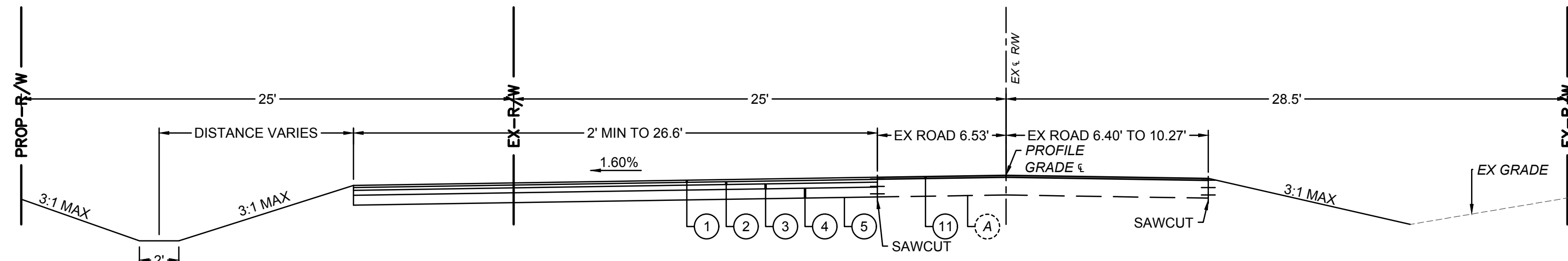
**A** TYPICAL SECTION - SHIER RINGS ROAD  
NOT TO SCALE

STATION DATA		
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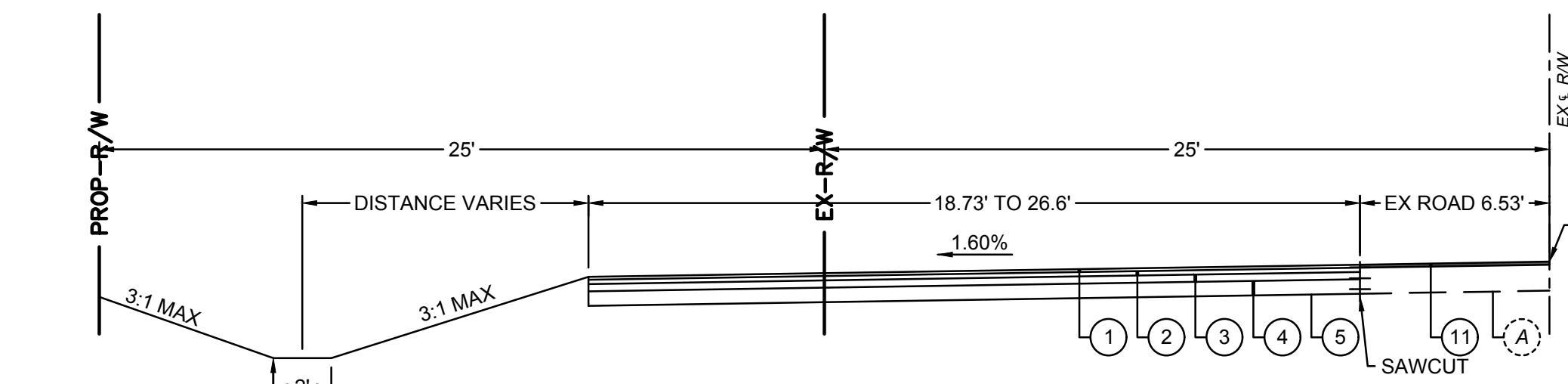
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NOT TO SCALE

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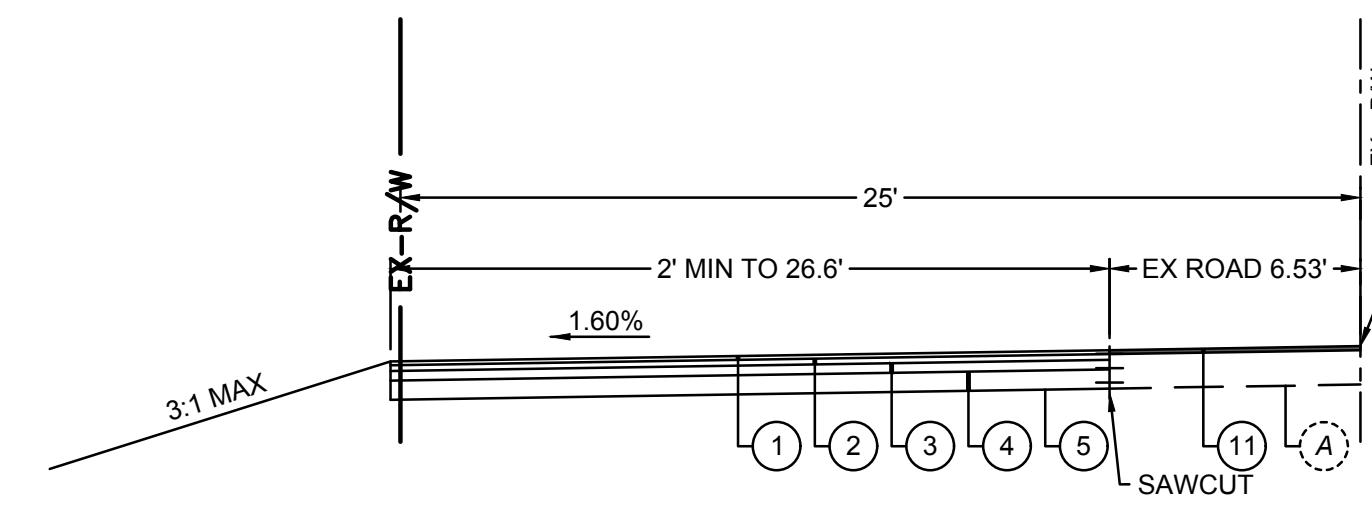
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STATION DATA		
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**D** TYPICAL SECTION - SHIER RINGS ROAD  
NOT TO SCALE

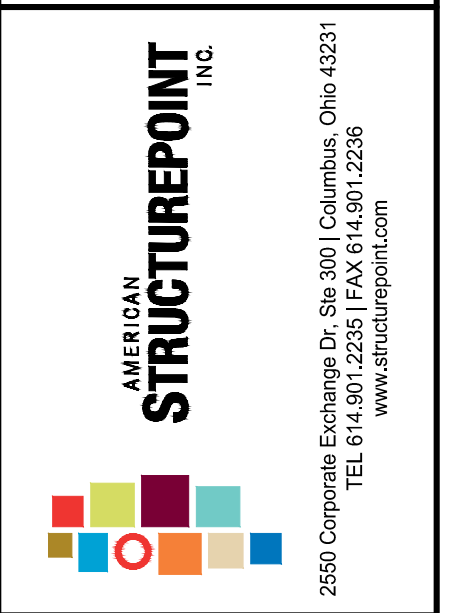
STATION DATA		
NAME	BEGIN STA	END STA
SHIER RINGS ROAD	STA: 131+50.21	STA: 133+73.00



**E** TYPICAL SECTION - SHIER RINGS ROAD  
NOT TO SCALE

STATION DATA		
NAME	BEGIN STA	END STA
SHIER RINGS ROAD	STA: 133+73.00	STA: 135+61.68

SECTION KEY	
①	ITEM 448. 1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, MEDIUM TRAFFIC, PG-64-22
②	ITEM 448. 1-3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, MEDIUM TRAFFIC, PG-64-22
③	ITEM 301. 6" BITUMINOUS AGGREGATE BASE
④	ITEM 304. 6" AGGREGATE BASE
⑤	ITEM 204. SUBGRADE COMPACTION
⑥	ITEM 448. 2-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, MEDIUM TRAFFIC, PG-64-22
⑦	ITEM 605. 4" PIPE UNDERDRAIN (COLS. 720.12)
⑧	ITEM 609. 6" CONCRETE COMBINATION CURB & GUTTER (INCLUDING #57 AGGREGATE BASE)
⑨	ITEM 653. 3" TOPSOIL FURNISHED AND PLACED
⑩	ITEM 659. SEEDING AND MULCHING, CLASS 1
⑪	MILL EX SURFACE COURSE AND OVERLAY WITH ITEM 448. 1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, MEDIUM TRAFFIC, PG-64-22
Ⓐ	EX SECTION PAVEMENT

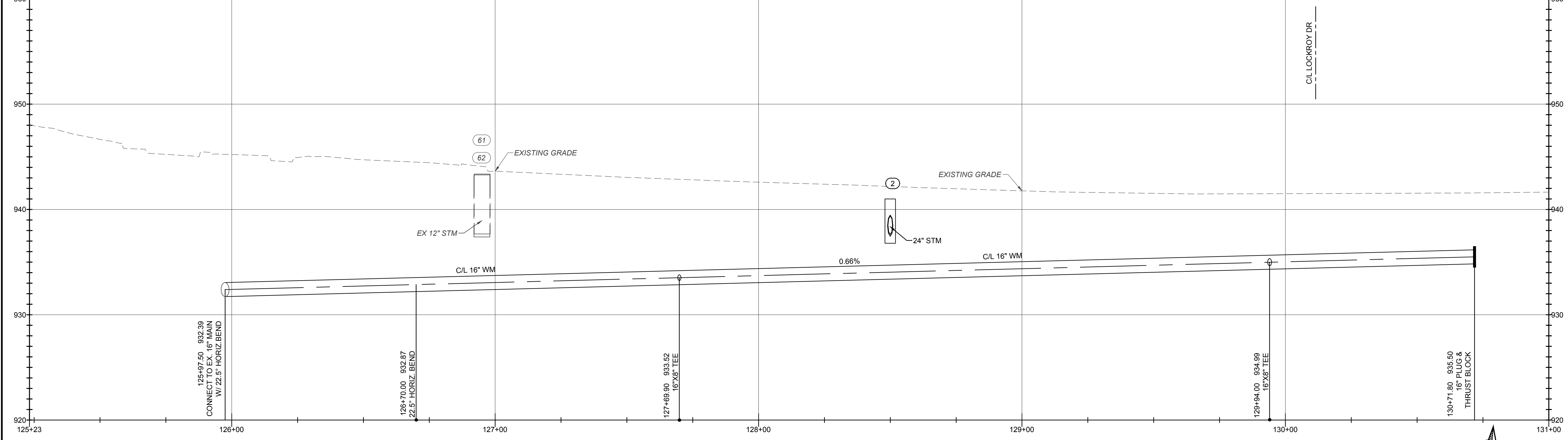
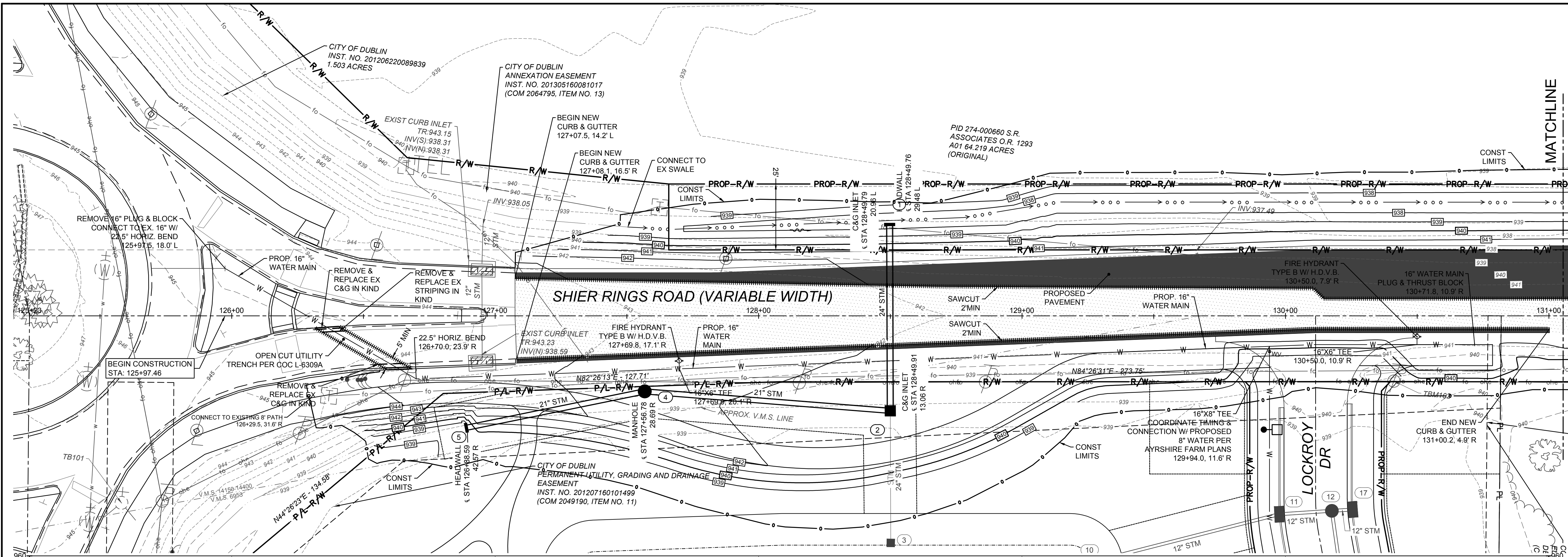


PUBLIC ROADWAY WIDENING PLANS  
FOR  
**SHIER RINGS ROAD**  
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
**TYPICAL SECTIONS**

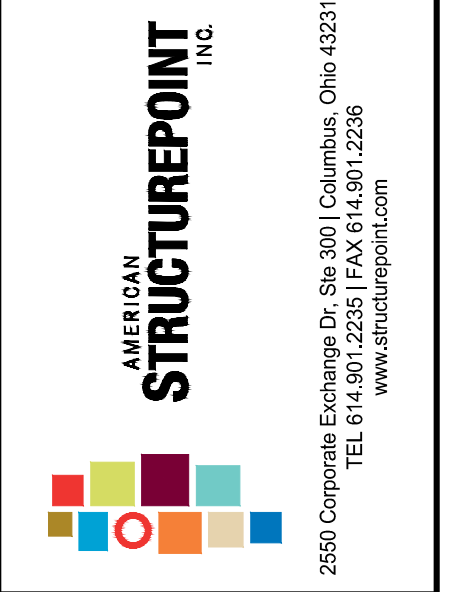
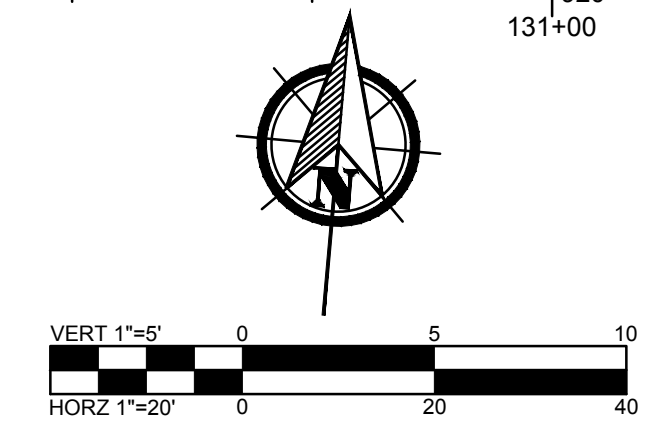
REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	07/09/2021
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CHECKED BY:	JRP
JOB NUMBER:	2019.01745

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EXISTING SCHIER RINGS RD CL STA 15+23 TO STA 131+00

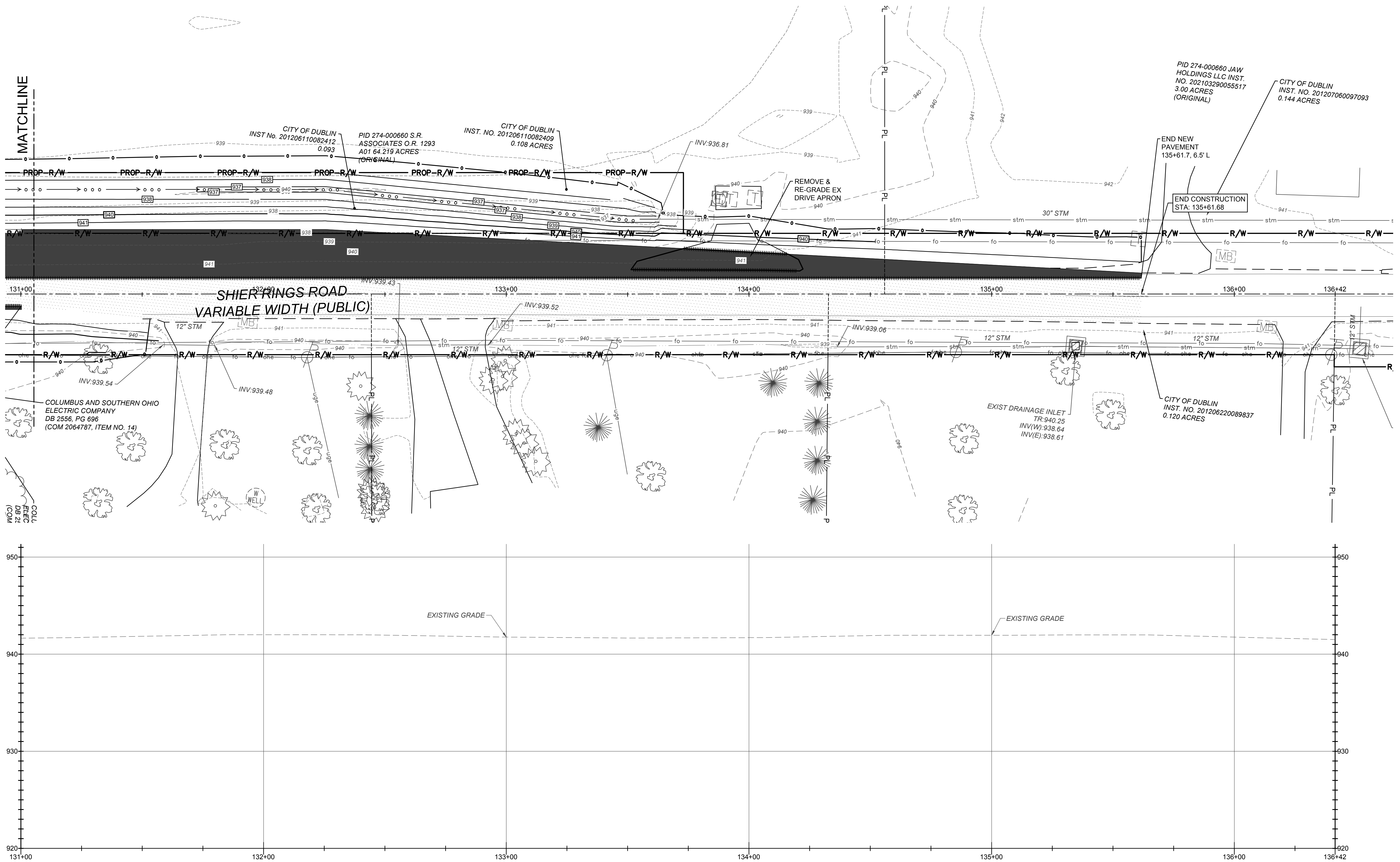


PUBLIC ROADWAY WIDENING PLANS  
FOR  
**SCHIER RINGS ROAD**  
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
**PLAN AND PROFILE**

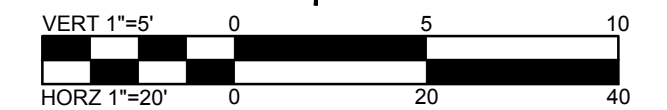
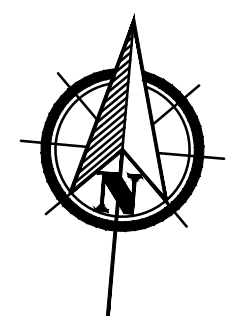
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EXISTING SHIER RINGS RD CL STA 131+00 TO STA 136+42



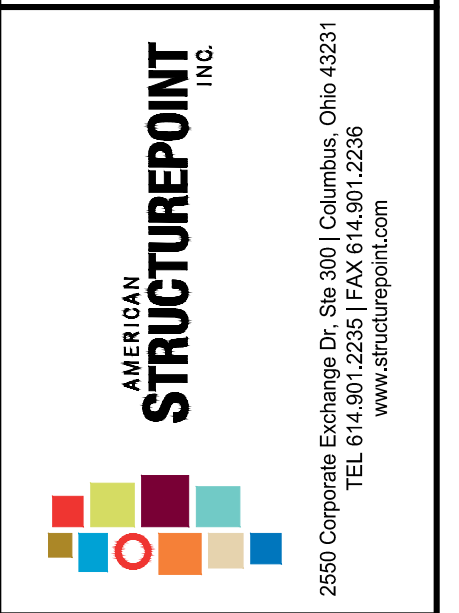
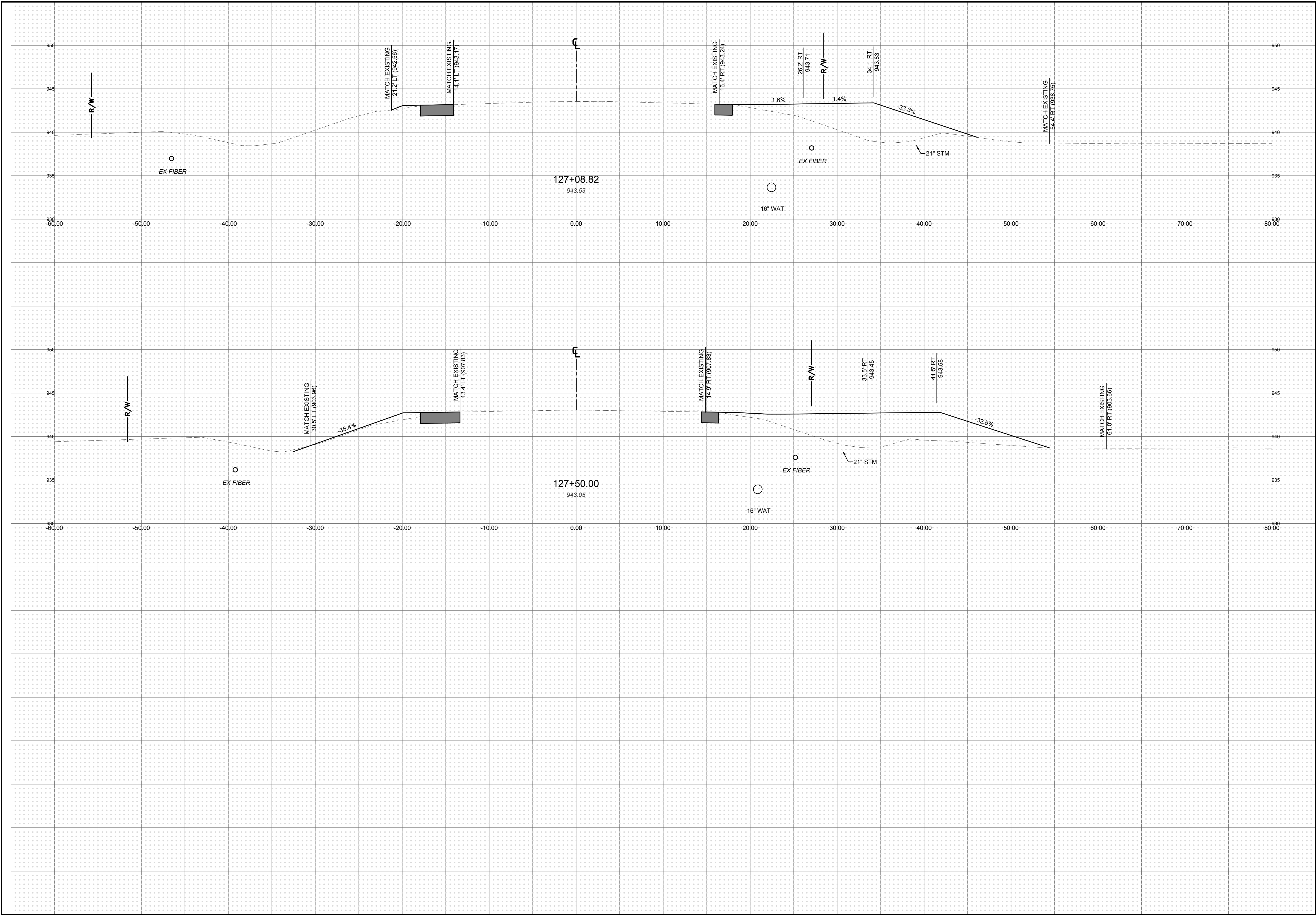
**AMERICAN STRUCTUREPOINT INC.**  
 2550 Corporate Exchange Dr., Ste 300 | Columbus, Ohio 43221  
 TEL: 614.420.1226  
 www.structurepoint.com

PUBLIC ROADWAY WIDENING PLANS  
 FOR  
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 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
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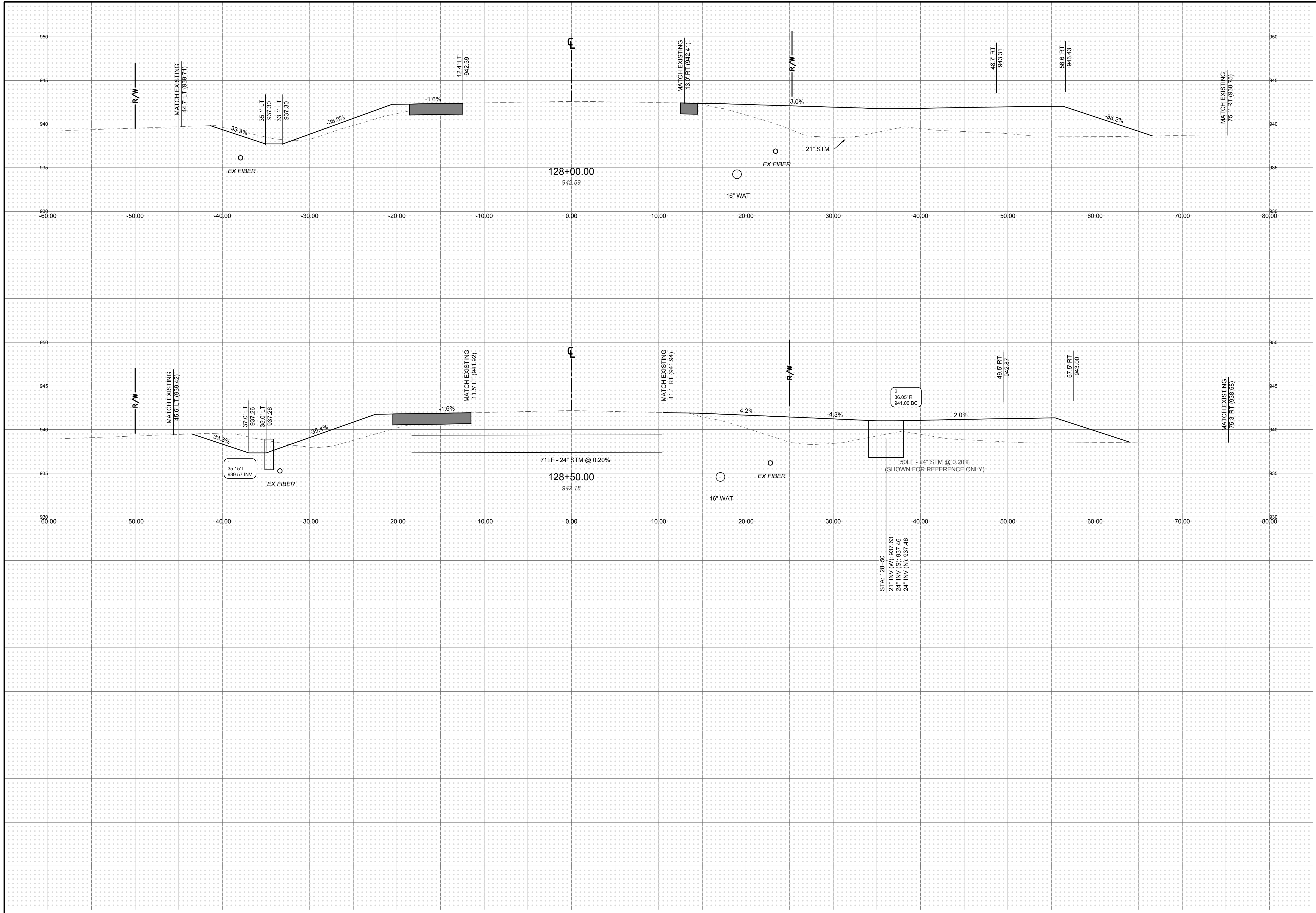


PUBLIC ROADWAY WIDENING PLANS  
FOR  
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CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
**SHIER RINGS CROSS SECTIONS**

REVISIONS	DATE	SHEET NO.	DESCRIPTION

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PLOT SCALE: 1:1 EDIT DATE: 7/14/21 - 8:47 AM EDITED BY: BJOHNSON DRAWING FILE: O:\2019\01745.D DRAWINGSCIVILCONSTRUCTION DOCUMENTS\PUBLIC ROADWAY\2019\01745.D CE SECTIONS.DWG



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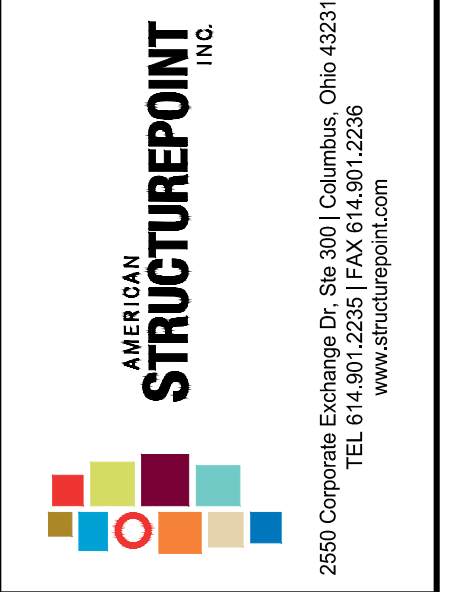
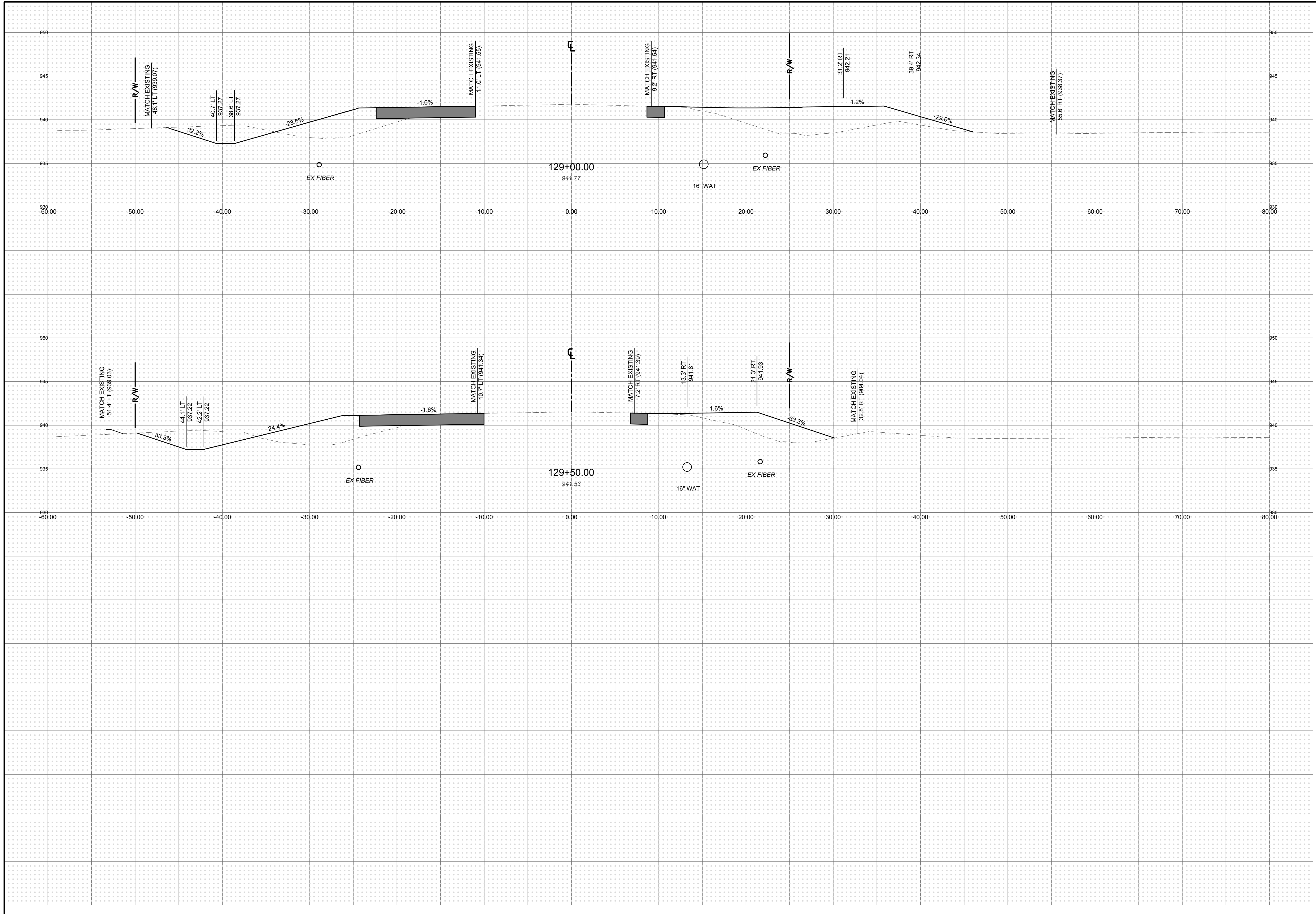
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PUBLIC ROADWAY WIDENING PLANS  
 FOR  
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 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
**SHIER RINGS CROSS SECTIONS**



PLOT SCALE: 1"=100' DATE: 7/14/21 - 8:47 AM EDITED BY: BJOHNSON DRAWING FILE: O:\2019\01745.D DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\PUBLIC ROADWAY\2019.01745.CE SECTIONS.DWG

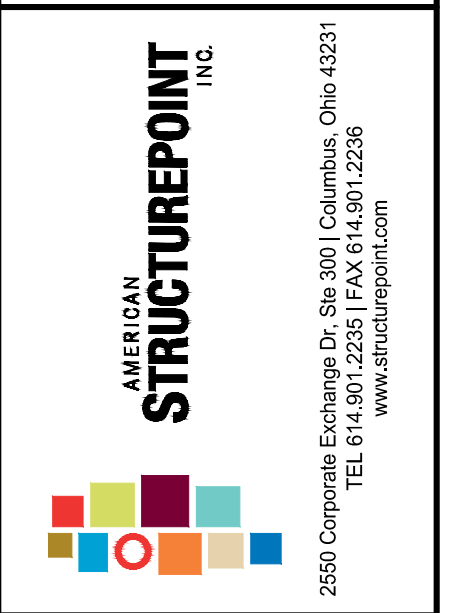
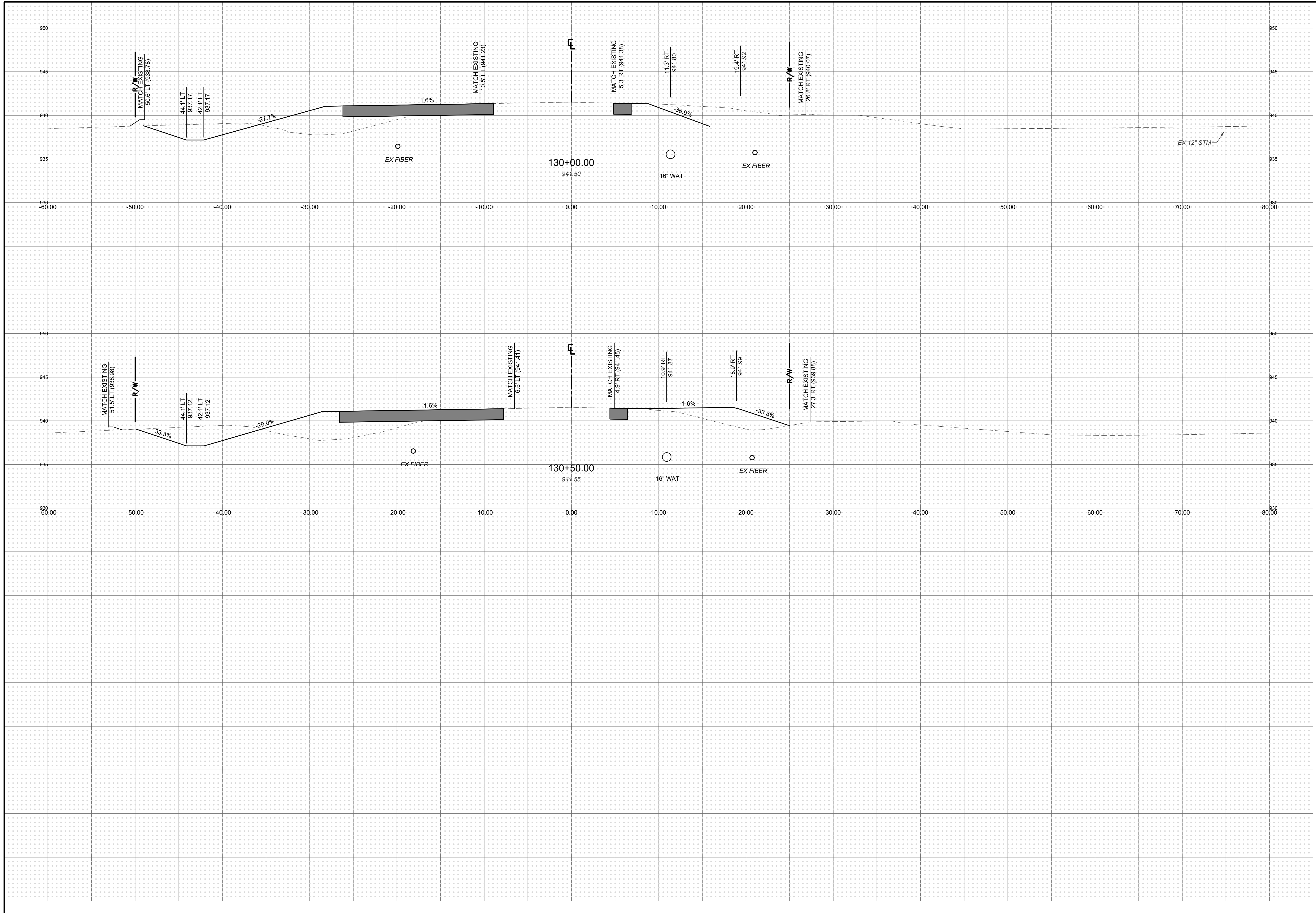


PUBLIC ROADWAY WIDENING PLANS  
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CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
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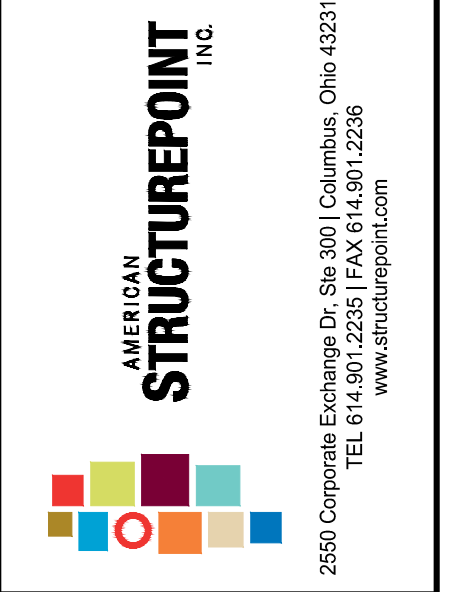
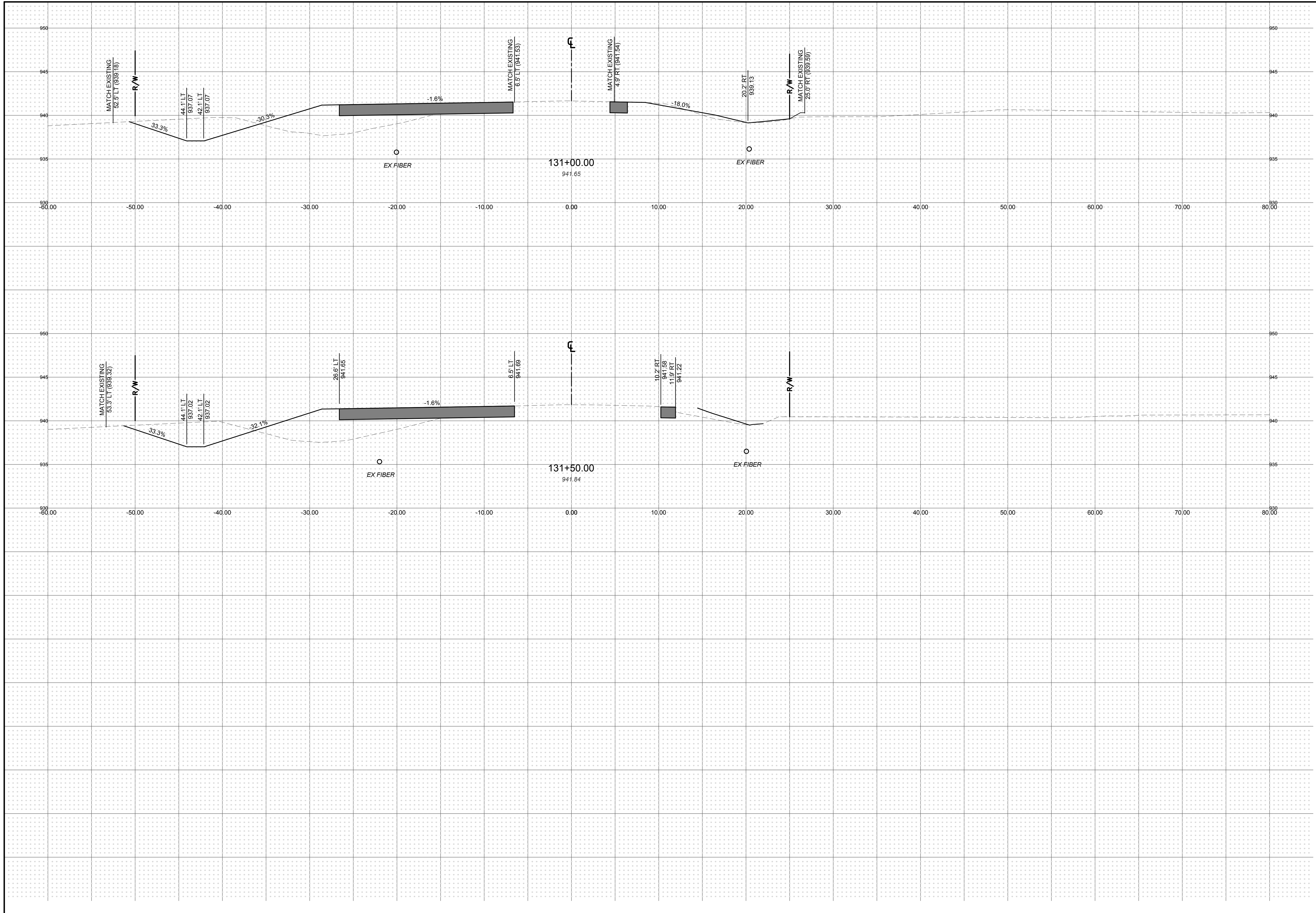


PUBLIC ROADWAY WIDENING PLANS  
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CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
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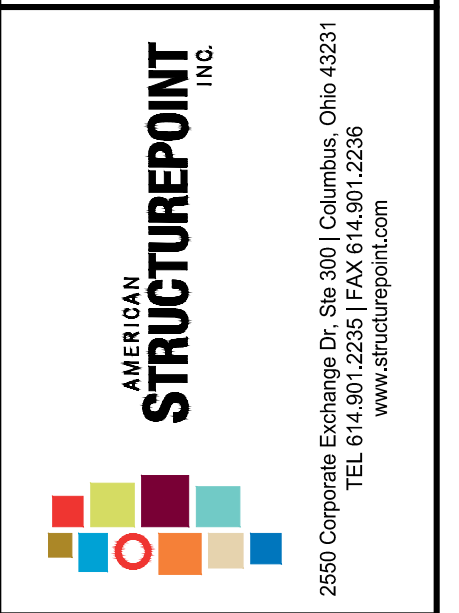
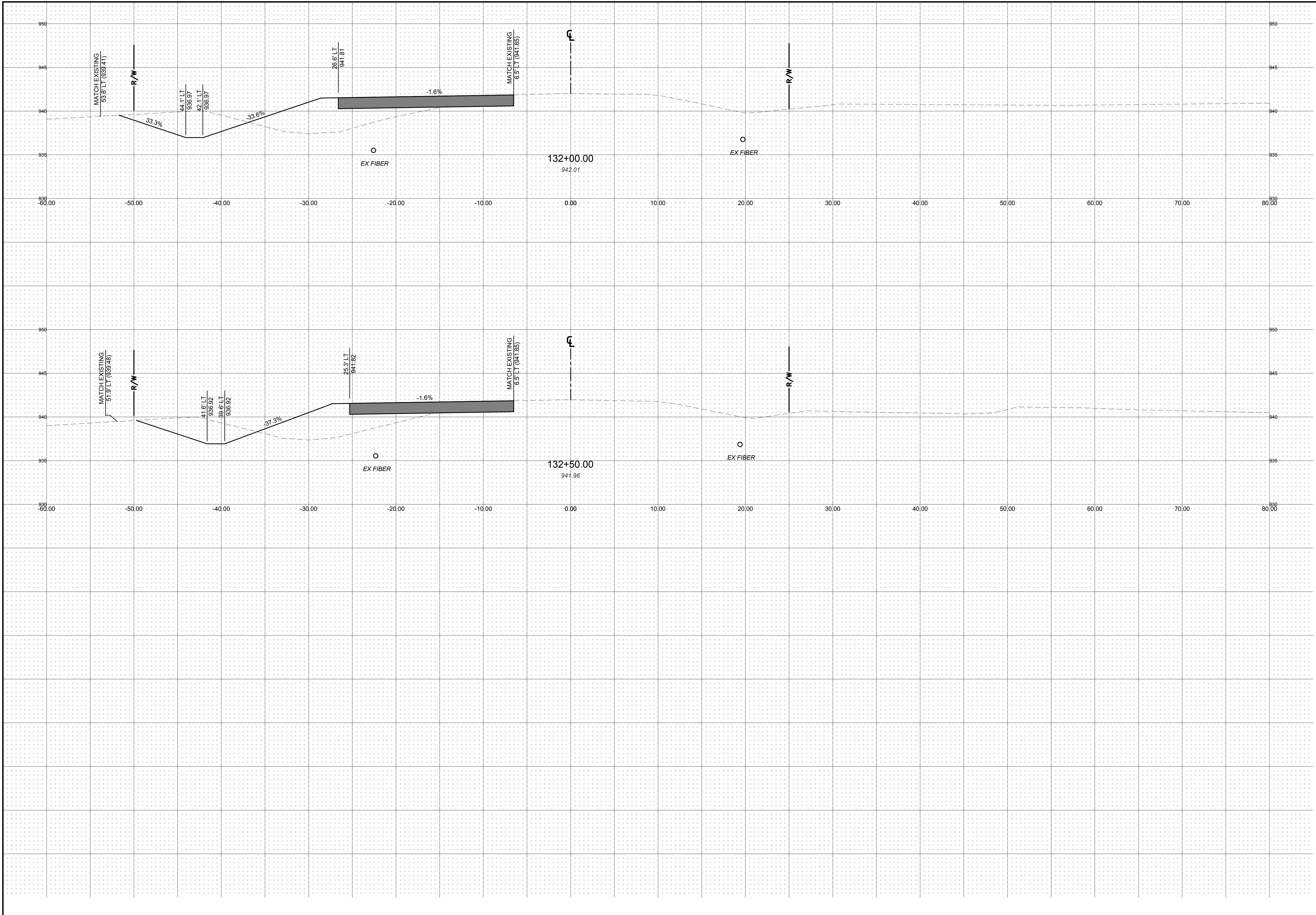


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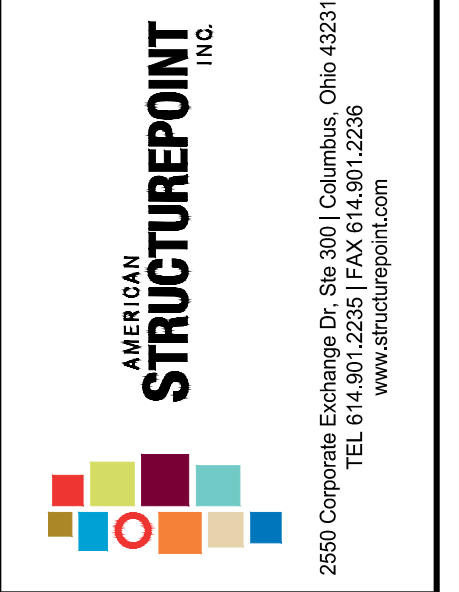
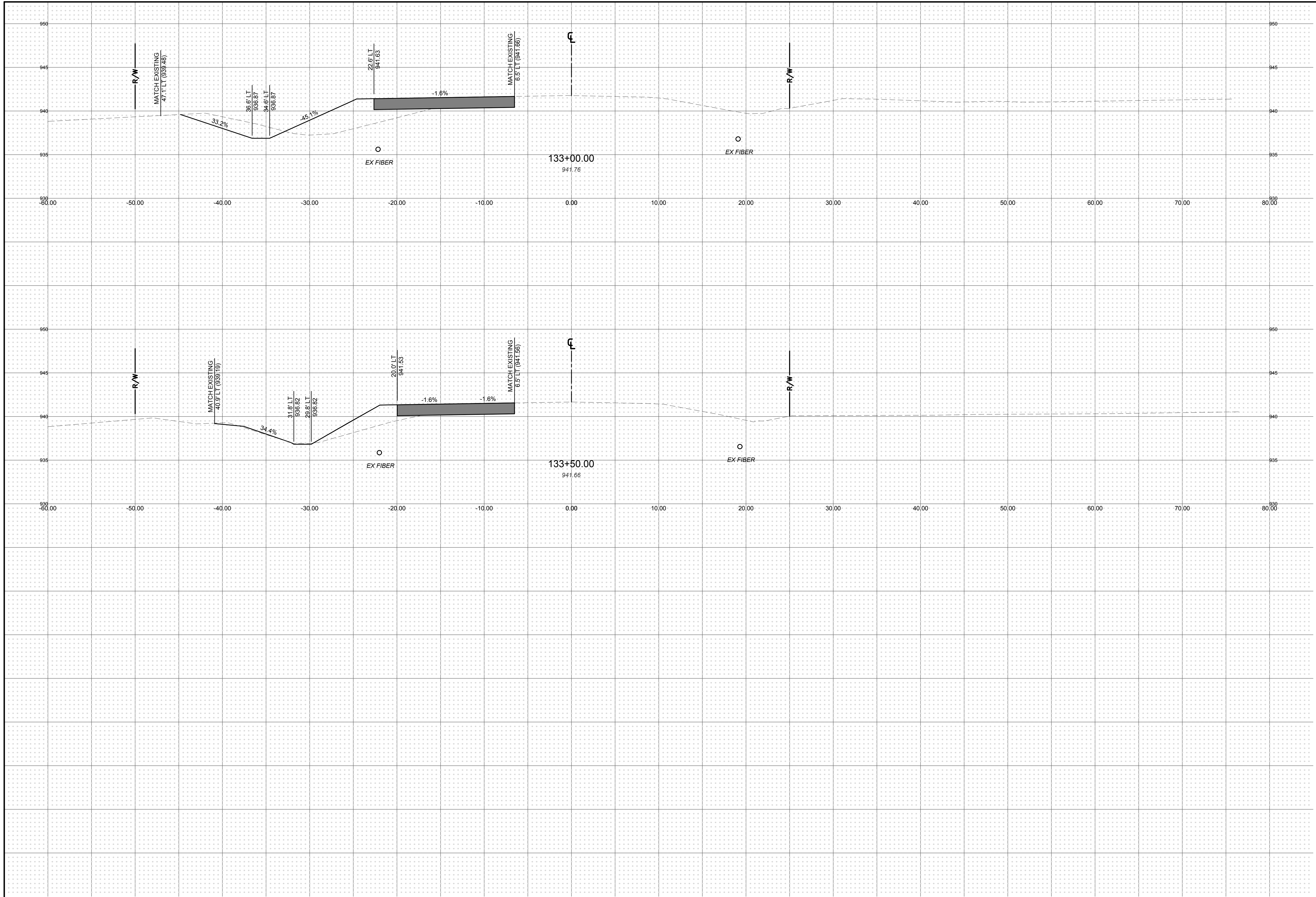


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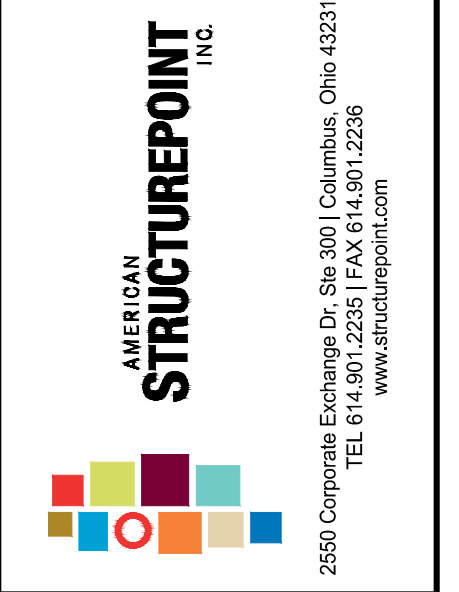
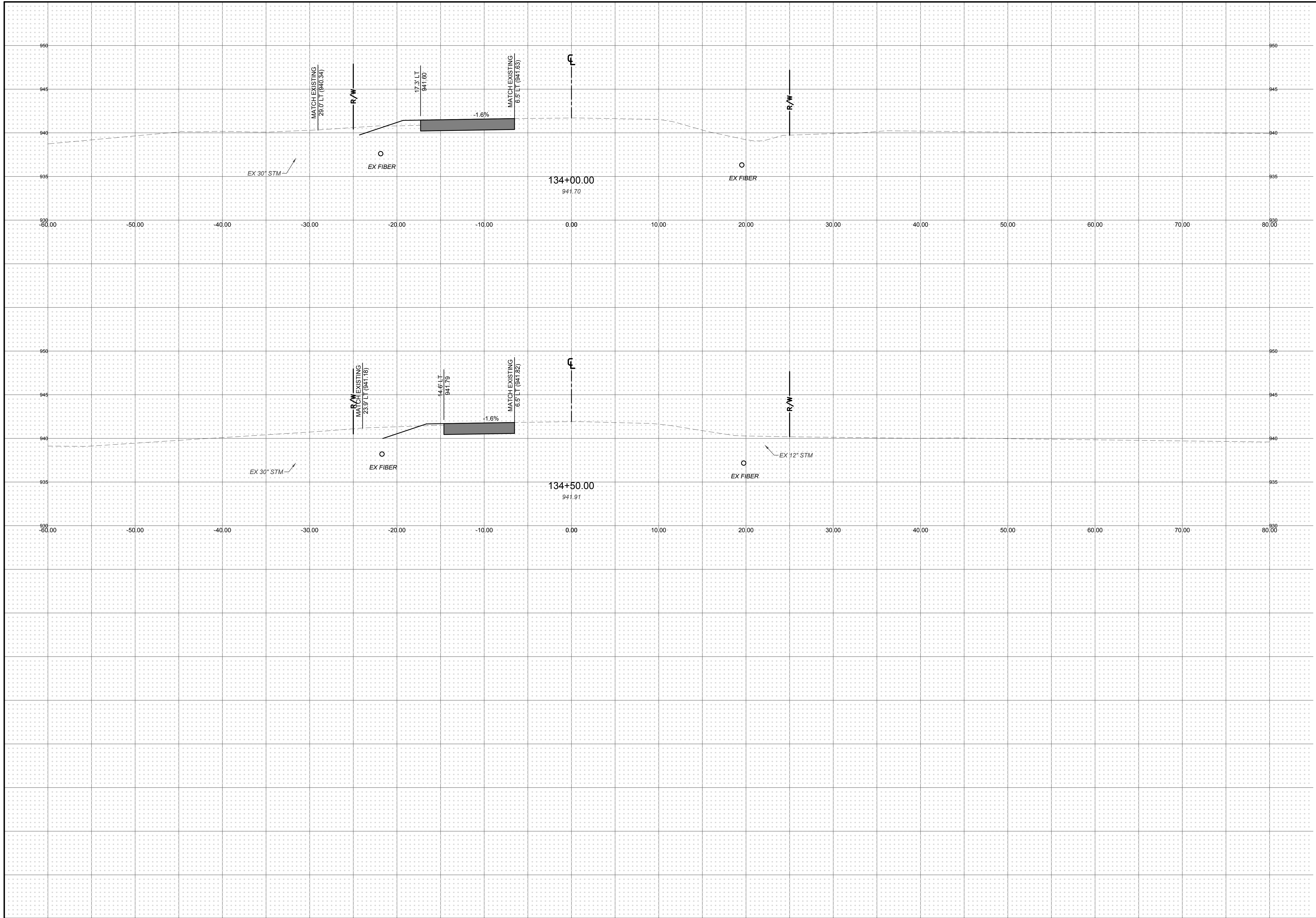


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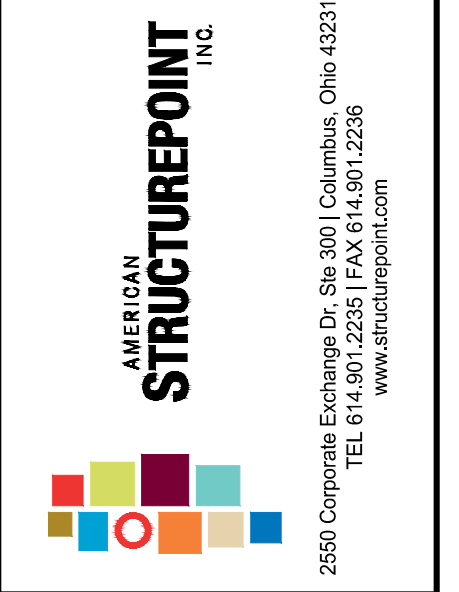
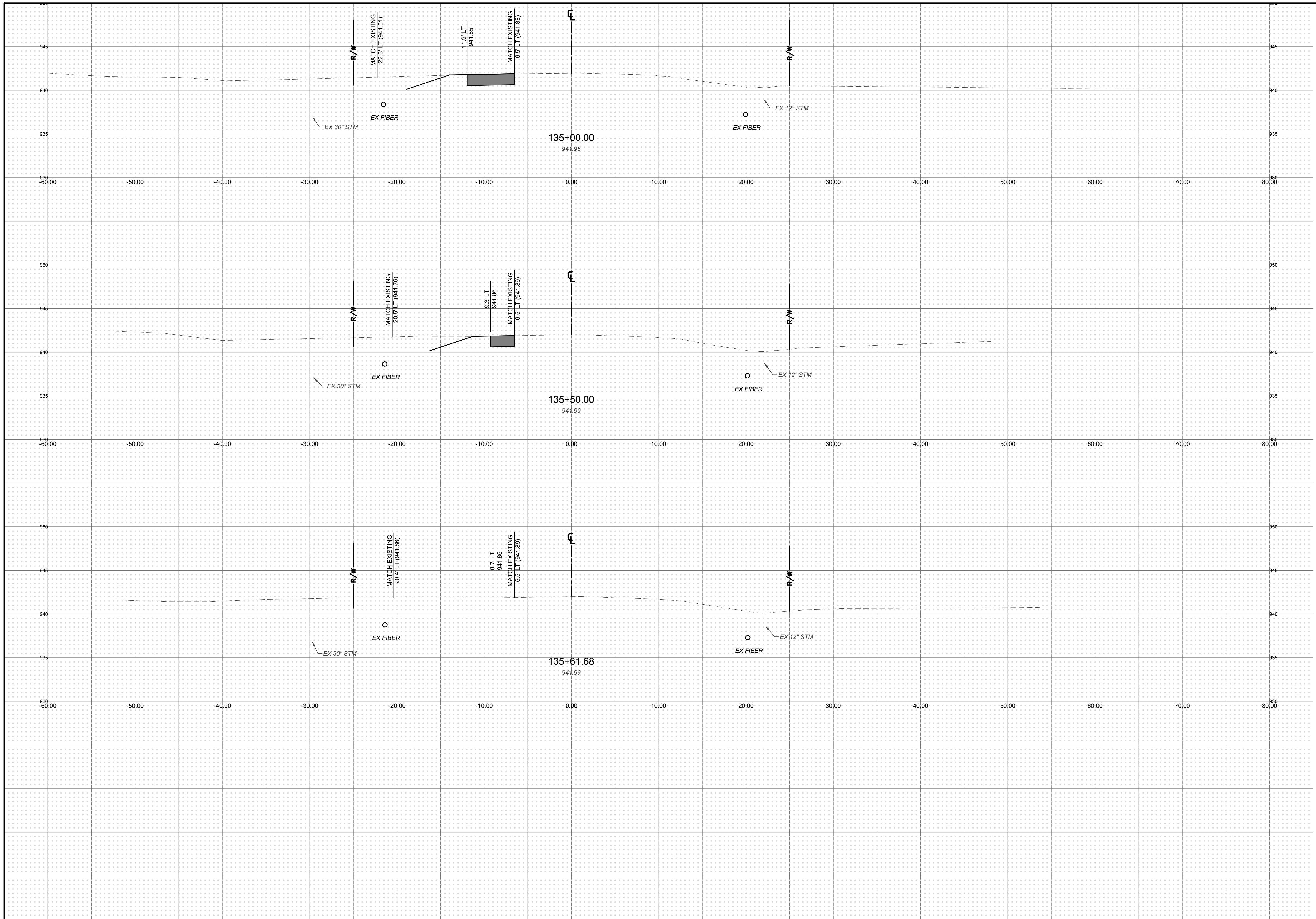


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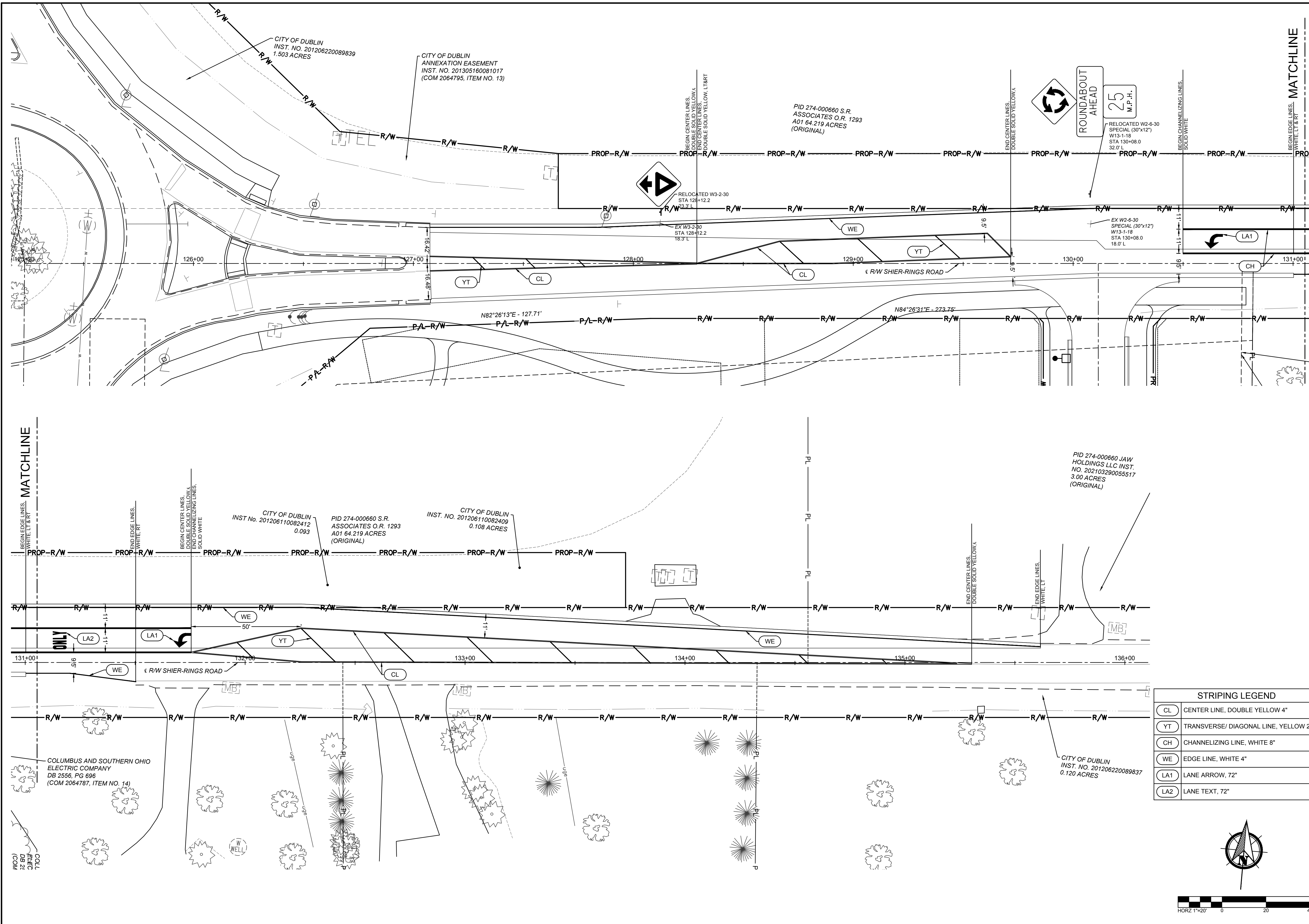


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CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
**SHIER RINGS CROSS  
SECTIONS**

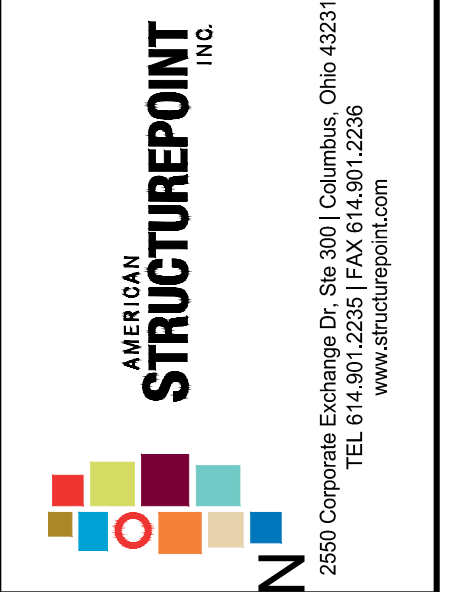
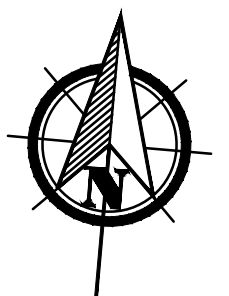
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STRIPING LEGEND	
CL	CENTER LINE, DOUBLE YELLOW 4"
YT	TRANSVERSE/DIAGONAL LINE, YELLOW 24"
CH	CHANNELIZING LINE, WHITE 8"
WE	EDGE LINE, WHITE 4"
LA1	LANE ARROW, 72"
LA2	LANE TEXT, 72"



PUBLIC ROADWAY WIDENING PLANS  
FOR  
**SCHIER RINGS ROAD**  
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
**SIGNING AND STRIPING PLAN**

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	07/09/2021
DRAWN BY:	GPB
CHECKED BY:	JRP
JOB NUMBER:	2019.01745



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**CONSTRUCTION INITIATION**

THE CONTRACTOR WILL ADVISE THE CITY 14 DAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR WILL IMMEDIATELY INFORM THE "CLIENT" OF ANY AND ALL DELAYS AND/OR CHANGES REGARDING THE CONSTRUCTION PROJECT. THE PROJECT ENGINEER WILL PROVIDE CLARIFICATION FOR ANY QUESTIONS ABOUT THE NOTIFICATION REQUIREMENT.

**SHIER-RINGS ROAD DETOUR**

TEMPORARY TRAFFIC SHALL BE DIVERTED UTILIZING COC STD DWG 1510.

**COVERING OF SIGNS**

THE CONTRACTOR SHALL COVER ALL EXISTING SIGNS THAT CONFLICT WITH MAINTENANCE OF TRAFFIC SIGNS. COVERING OF SIGNS SHALL BE IN ACCORDANCE WITH 614.03. COSTS FOR COVERING SIGNS SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 - MAINTAINING TRAFFIC.

**ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR**

USE OF LAW ENFORCEMENT OFFICES (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED IN THIS NOTE WILL NOT BE PERMITTED AT PROJECT COST UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE ENGINEER. LEOS SHOULD NOT BE USED WHERE THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD) INTENDS FOR FLAGGERS TO BE USED.

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR CONTROLLING TRAFFIC FOR THE FOLLOWING TASKS:

- A. FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED. IN GENERAL, LEOS SHOULD BE POSITIONED AT THE POINT OF LANE RESTRICTION OR ROAD CLOSURE AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH INTERSECTIONS IN WORK ZONES.
- B. DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE BLOCKAGE OF TRAFFIC IS REQUIRED.
- C. DURING A TRAFFIC MAST ARM AND POLE INSTALLATION.

LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES. THE CONTRACTOR SHALL UTILIZE ANY OF THE FOLLOWING LAW ENFORCEMENT AGENCY(S): CITY OF DUBLIN, FRANKLIN COUNTY SHERIFF'S OFFICE, OR OHIO STATE HIGHWAY PATROL.

LAW ENFORCEMENT OFFICERS WITH PATROL CAR REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614 - LAW ENFORCEMENT OFFICE WITH PATROL CAR. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

**ITEM 614. LAW ENFORCEMENT OFFICER WITH PATROL CAR - 60 HOURS**

THE HOURS PAID SHALL INCLUDE MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED. ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR.

**ITEM 614 - MAINTAINING TRAFFIC**

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY-WIDE OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA-WIDE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR WILL BE ASSESSED LIQUIDATED DAMAGES IN ACCORDANCE WITH THE CONTRACT.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, WILL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE CITY OF DUBLIN AT LEAST 14 DAYS IN ADVANCE OF ANY PLANNED LANE CLOSURES OR OTHER DISRUPTION OF TRAFFIC.

THE CONTRACTOR SHALL SUBMIT A CLOSURE SCHEDULE AND DETOUR PLAN TO THE CITY OF DUBLIN FOR APPROVAL PRIOR TO INITIATING ANY CLOSURE.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED ON THE PLANS.

**PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)**

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN, AND REMOVE, WHEN NO LONGER NEEDED, PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) AS REQUIRED. ONLY CLASS II SIGNS WILL BE APPROVED FOR USE ON THIS PROJECT.

THE SIGN SHALL BE TRAILER MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM TO DIM THE SIGN DURING DARKNESS AND A TAMPER AND VANDAL PROOF ENCLOSURE. THE SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY.

WHEN NOT BEING USED FOR CLOSURES, THE SIGN SHALL BE REMOVED FROM THE PROJECT AND STORED.

PLACEMENT, OPERATION, MAINTENANCE, AND ALL ACTIVATION OF THE SIGN BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION, YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS.

THE ENGINEER SHALL BE PROVIDED ACCESS TO THE SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATING INSTRUCTIONS ENABLING CITY OF DUBLIN PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT AND TO REVISE SIGN MESSAGES, IF NECESSARY.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ONBOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION WITH UP TO SIX (6) MESSAGE PHASES SHALL BE SUPPORTED, BUT NORMALLY, NOT MORE THAN THREE (3) MESSAGE PHASES SHOULD BE EMPLOYED. A BLANK PHASE SHALL BE INSERTED AT THE END OF EACH MESSAGE. THE SPEED OF EACH PHASE SHALL BE ADJUSTED TO THE SPEED WHICH WILL PERMIT THE COMPLETE MESSAGE TO BE READ AT LEAST TWICE BY A MOTORIST TRAVELING THE SPEED LIMIT.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED, OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY PER DIFFERENT DAYS OF THE WEEK.

THE PCMS SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF 614.03 (C). THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 2 HOURS INCLUDING WEEKENDS.

THE REQUIREMENT TO FURNISH, INSTALL, MAINTAIN AND REMOVE A PCMS UNIT ON THIS PROJECT SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES AS OUTLINED IN 104.04. AN ESTIMATED QUANTITY OF 6 SIGN-MONTH HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THIS ITEM. PAYMENT FOR THE ABOVE DISCUSSED ITEM SHALL BE AT THE CONTRACT UNIT PRICE BID PER SIGN -MONTH FOR EACH ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN AND SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE, AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

**ITEM 615 - TEMPORARY PAVEMENT, AS PER PLAN**

THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY PAVEMENT FOR MAINTAINING TRAFFIC. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING PAVEMENT BUILDUP:

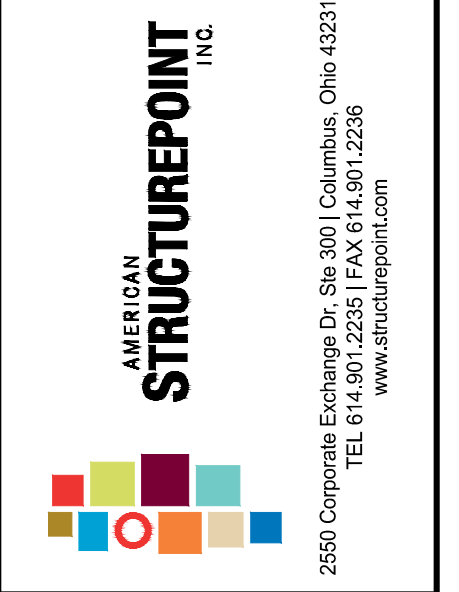
- ITEM 448 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, MEDIUM TRAFFIC, PG64-22
- ITEM 448 - 1 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, MEDIUM TRAFFIC, PG64-22
- ITEM 301 - 3" BITUMINOUS AGGREGATE BASE
- ITEM 304 - 6" AGGREGATE BASE

**ALTERNATIVE METHODS**

THE CONTRACTOR MAY SUBMIT ALTERNATIVE METHODS FOR THE MAINTENANCE OF TRAFFIC PROVIDED THE INTENT OF THE ABOVE PROVISIONS IS FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS FROM THE CHANGE. NO ALTERNATIVE PLAN SHALL BE PLACED IN EFFECT UNTIL APPROVAL HAS BEEN RECEIVED FROM THE CITY OF DUBLIN IN WRITING.

**SEQUENCE OF CONSTRUCTION**

1. RELOCATE ALL UTILITIES AND PLACE ALL NEEDED MAINTENANCE OF TRAFFIC SIGNS, MARKINGS, AND DRUMS.
2. INSTALL NEW UNDERGROUND UTILITIES.
3. MILL EXISTING PAVEMENT WITHIN CONSTRUCTION LIMITS.
4. CONSTRUCT NEW LANES AND CURB & GUTTER.
5. PLACE PERMANENT PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS.
6. COMPLETE ALL REMAINING CONSTRUCTION WORK.



PUBLIC ROADWAY WIDENING PLANS  
 FOR  
**SCHIER RINGS ROAD**  
 CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
**MAINTENANCE OF TRAFFIC**

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	07/09/2021
DRAWN BY:	GPB
CHECKED BY:	JRP
JOB NUMBER:	2019.01745

PLOT SCALE: 1"=10' DATE: 7/9/21 - 10:15 AM EDITED BY: BUCHANSON DRAWING FILE: 0:201901745D DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\PUBLIC ROADWAY\2019\0745 ESC.DWG

GENERAL NOTES

- A DETAILED TEMPORARY AND PERMANENT EROSION CONTROL PLAN MUST BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL BEFORE CONSTRUCTION IF ONE IS NOT INCLUDED IN THE PLANS. THE DESIGN OF EROSION CONTROL SYSTEMS SHALL FOLLOW THE REQUIREMENTS OF OHIO EPA, ITEM 207 OF OHIO DEPARTMENT OF TRANSPORTATION (ODOT) STANDARD SPECIFICATIONS, AND THE CITY ENGINEER. THE CONTRACTOR SHALL BE CONSIDERED THE DEVELOPER OF THE STORMWATER DISCHARGE.
- THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE WATER LEAVES THE PROJECT, INCLUDING WATERWAYS, OVERLAND SHEET FLOW, AND STORM SEWERS, WHETHER SPECIFICALLY SHOWN ON THE PLANS OR NOT.
- ACCEPTED METHODS OF PROVIDING EROSION/SEDIMENT CONTROL INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT FILTERS, SILT FILTER FENCE, ROCK CHECK DAMS, AND TEMPORARY GROUND COVER.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE OF THE WORK AREA AT ALL TIMES CONSISTENT WITH EROSION CONTROL PRACTICES.
- DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR 45 DAYS OR MORE SHALL BE SEEDED WITHIN 7 CALENDAR DAYS OF THE DISTURBANCE. OTHER SEDIMENT CONTROLS THAT ARE INSTALLED SHALL BE MAINTAINED UNTIL VEGETATIVE GROWTH HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT BEFORE GROWTH OF PERMANENT GROUND COVER.
- ALL DENUDED AREAS, INCLUDING STOCKPILED TOPSOIL AND EXCAVATED MATERIAL, ARE TO BE PROTECTED THROUGH THE USE OF TEMPORARY SEEDING, OR COVERED WITH ANCHORED STRAW MULCH.
- FINAL GRADING WILL BE CONSISTENT WITH PRECONSTRUCTION TOPOGRAPHY TO MAINTAIN DRAINAGE AND AESTHETICS.
- REMOVE ONLY THE TREES, SHRUBS, AND GRASSES THAT MUST BE REMOVED TO PERMIT ACTUAL CONSTRUCTION. PROTECT THE REMAINING TO PRESERVE THEIR AESTHETIC AND EROSION CONTROL VALUE.
- BACKFILL TRENCHES IMMEDIATELY AFTER USE. SEED AND MULCH TRENCH AREA WITHIN 1 WEEK AFTER AREA OR SECTION HAS BEEN OPENED.
- SETTLING FACILITIES, SEDIMENT FILTERS, PERIMETER CONTROLS, AND OTHER PRACTICES INTENDED TO TRAP SEDIMENT SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING OR CONSTRUCTION AND WITHIN 7 DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL THE UPSLOPE DEVELOPMENT AREA IS RESTABILIZED.
- STORM SEWER INLET PROTECTION - ALL STORM SEWER INLETS WHICH ACCEPT WATER RUNOFF FROM THE PROJECT AREA SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER WILL NOT ENTER THE STORM SEWER SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT, UNLESS THE STORM SEWER SYSTEM DRAINS TO A SETTLING FACILITY. THESE CONTROLS SHALL BE SELECTED AND LOCATED AS INDICATED IN THE PLANS AND AS DIRECTED BY THE CITY ENGINEER.
- WORKING IN OR CROSSING STREAMS - STREAMS INCLUDING BED AND BANKS SHALL BE RESTABILIZED IMMEDIATELY AFTER IN-CHANNEL WORK IS COMPLETED, INTERRUPTED, OR STOPPED. TO THE EXTENT PRACTICABLE, CONSTRUCTION VEHICLES SHALL BE KEPT OUT OF STREAMS. WHERE IN-CHANNEL WORK IS NECESSARY, PRECAUTIONS SHALL BE TAKEN TO STABILIZE THE WORK AREA DURING CONSTRUCTION TO MINIMIZE EROSION. WHERE A STREAM MUST BE CROSSED BY CONSTRUCTION VEHICLES REGULARLY DURING CONSTRUCTION, A TEMPORARY CULVERT SHALL BE PROVIDED.
- CONSTRUCTION ACCESS ROUTES - MEASURES SHALL BE TAKEN TO PREVENT SOIL TRANSPORT ONTO SURFACES WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, OR ONTO PUBLIC ROADS. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT OFF-SITE TRACKING OF SEDIMENTS BY VEHICLES AND EQUIPMENT IS ELIMINATED. SEE STABILIZED CONSTRUCTION ENTRANCE DETAIL, THIS SHEET.
- SLOUGHING AND DUMPING - NO SOIL, ROCK, DEBRIS, OR ANY OTHER MATERIAL SHALL BE DUMPED OR PLACED INTO A WATER RESOURCE OR INTO SUCH PROXIMITY THAT IT MAY READILY SLOUGH, SLIP, OR ERODE INTO A WATER RESOURCE UNLESS SUCH DUMPING OR PLACING IS AUTHORIZED BY THE CITY ENGINEER. UNSTABLE SOILS PRONE TO SLIPPING OR LANDSLIDING SHALL NOT BE GRADED, EXCAVATED, FILLED, OR HAVE LOADS IMPOSED UPON THEM UNLESS THE WORK IS DONE IN ACCORDANCE WITH A QUALIFIED PROFESSIONAL ENGINEER'S RECOMMENDATIONS TO CORRECT, ELIMINATE, OR ADEQUATELY ADDRESS THE PROBLEMS.
- MAINTENANCE AND INSPECTION - ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE DESIGNED AND CONSTRUCTED TO MINIMIZE MAINTENANCE REQUIREMENTS. THEY SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ENSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. MAINTENANCE AND INSPECTION OF ALL EROSION/SEDIMENT CONTROL DEVICES REQUIRED BY THE CITY ENGINEER SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. INSPECTIONS SHALL BE PERFORMED BY THE CONTRACTOR IN THE PRESENCE OF THE CITY ENGINEER, ONCE EVERY 7 CALENDAR DAYS AND/OR WITHIN 24 HOURS AFTER A RAIN EVENT OF GREATER THAN 0.5 INCHES IN A 24-HOUR PERIOD. THESE INSPECTIONS SHALL IDENTIFY AREAS CONTRIBUTING TO STORMWATER DISCHARGES ASSOCIATED WITH THE PROJECT; EVALUATE THE ADEQUACY, IMPLEMENTATION, AND MAINTENANCE OF EXISTING AND PROPOSED EROSION/SEDIMENTATION MEASURES; AND DETERMINE WHETHER ADDITIONAL MEASURES ARE REQUIRED. ACCEPTABLE INSPECTION REPORTS SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE CITY ENGINEER WITHIN 48 HOURS OF INSPECTION COMPLETION. THE REPORT SHALL CONTAIN THE RESULTS OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE TEMPORARY EROSION AND SEDIMENT CONTROL PLAN, A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE PLAN, AND IDENTIFYING ANY INCIDENTS OF NONCOMPLIANCE.
- OUTFLOWS FROM DEWATERING OPERATIONS - ALL WATER PRODUCED FROM CLEANING AND DEWATERING OPERATIONS, WHETHER SPECIFICALLY FROM TRENCH DEWATERING OPERATIONS OR FROM MORE EXTENSIVE DEWATERING OPERATIONS, SHALL BE DISCHARGED IN SUCH A MANNER AS TO ELIMINATE EROSION FROM SUCH DISCHARGE.
- ADDITIONAL CONTROLS - THE CONTRACTOR SHALL ENSURE THAT NO SEDIMENTS ARE TRACKED OFF-SITE BY CONSTRUCTION EQUIPMENT, VEHICLES, AND WORKERS. THE CONTRACTOR SHALL ALSO ENSURE THAT NO SOLID OR LIQUID WASTE IS DISCHARGED INTO ANY STORMWATER FLOW.
- TEMPORARY EROSION AND SEDIMENT CONTROL PLAN AVAILABILITY AND UPDATES - THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO ENSURE THE IMMEDIATE AVAILABILITY OF THE TEMPORARY EROSION AND SEDIMENT CONTROL PLAN ON-SITE. THE CONTRACTOR SHALL ALSO BE SOLELY RESPONSIBLE TO PERFORM ALL UPDATES AND ADJUSTMENTS TO THE TEMPORARY EROSION AND SEDIMENT CONTROL PLAN.

PROHIBITED CONSTRUCTION ACTIVITIES

THE CONTRACTOR SHALL NOT USE CONSTRUCTION PROCEDURES, ACTIVITIES, OR OPERATIONS THAT MAY UNNECESSARILY IMPACT THE NATURAL ENVIRONMENTAL OR THE PUBLIC HEALTH AND SAFETY. PROHIBITED CONSTRUCTION PROCEDURES, ACTIVITIES, OR OPERATIONS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

- DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOOD PLAINS, EVEN WITH THE PERMISSION OF THE PROPERTY OWNER.
- INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR OUTSIDE THE EASEMENT LIMITS.
- PUMPING OF SEDIMENT LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS INTO ANY SURFACE WATERS, ANY STREAM CORRIDORS, ANY WETLANDS, OR STORM DRAINS.
- DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE, AND/OR ANY OTHER HARMFUL WASTE, INTO OR ALONGSIDE OF RIVERS, STREAMS, IMPOUNDMENTS, OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO.
- PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOWLINE OF A STREAM.
- DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA.
- DISPOSAL OF TREES, BRUSH, AND OTHER DEBRIS IN ANY STREAM CORRIDORS, WETLANDS, OR SURFACE WATERS.
- OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT.
- STORING CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIALS ON PROPERTY (PUBLIC OR PRIVATE) NOT PREVIOUSLY SPECIFIED BY THE CITY ENGINEER FOR SAID PURPOSES.

STABILIZED CONSTRUCTION ENTRANCE

- STONE SIZE - USE 2 INCH STONE.
- LENGTH - AS REQUIRED (MINIMUM OF 50 FEET).
- THICKNESS - NOT LESS THAN 6 INCHES.
- WIDTH - 10 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- FILTER FABRIC - WILL BE PLACED OVER THE ENTIRE SUBGRADE PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WASHING - WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ON TO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS NEEDED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN ON-SITE CONTAINMENT AREA.
- PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PERFORMED AFTER EACH RAIN.
- THE STABILIZED CONSTRUCTION ENTRANCE DESCRIBED IS A MINIMUM STANDARD FOR INGRESS AND EGRESS FROM THE CONSTRUCTION SITE ONTO PUBLIC RIGHT-OF-WAY. THE CONTRACTOR MAY VARY THE CONSTRUCTION AS NEEDED FOR SPECIFIC SITE CONDITIONS PROVIDED THAT ITS FUNCTION SATISFIES THE INTENT DESCRIBED HEREIN AS DETERMINED BY THE CITY ENGINEER. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE CONTRACT.

FILTER FABRIC FENCE

THIS SEDIMENT BARRIER UTILIZES STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED.

- THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE).
- THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6 INCH OVERLAP, AND SECURELY SEALED.
- POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET.
- A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UP SLOPE FROM THE BARRIER.
- WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UP SLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
- WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ITEM NO. 6 APPLYING.
- THE TRENCH SHALL BE BACKFILLED AND SOIL COMPACTED OVER THE FILTER FABRIC.
- SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UP SLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

MAINTENANCE

SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED, AND SEEDED.

THIS WORK SHALL BE PAID AT THE UNIT PRICE BID PER LINEAL FOOT FOR ITEM 207 - "FILTER FABRIC FENCE".

INLET SEDIMENT FILTER

INSTALLATION AND MAINTENANCE OF INLET SEDIMENT FILTERS SHALL BE IN ACCORDANCE WITH THAT SPECIFIED FOR FILTER FABRIC FENCE.

NO. 2 STONE CHECK DAM

FURNISH MATERIAL CONFORMING TO ITEM 601 - ROCK CHANNEL PROTECTION, TYPE C OR D, WITHOUT FILTER. PLACE THE ROCK OUTSIDE THE TRAFFIC CLEAR ZONE IN THE DITCH. THIS WORK SHALL BE PAID AT THE UNIT PRICE BID PER LINEAR FOOT FOR "NO. 2 STONE CHECK DAM".

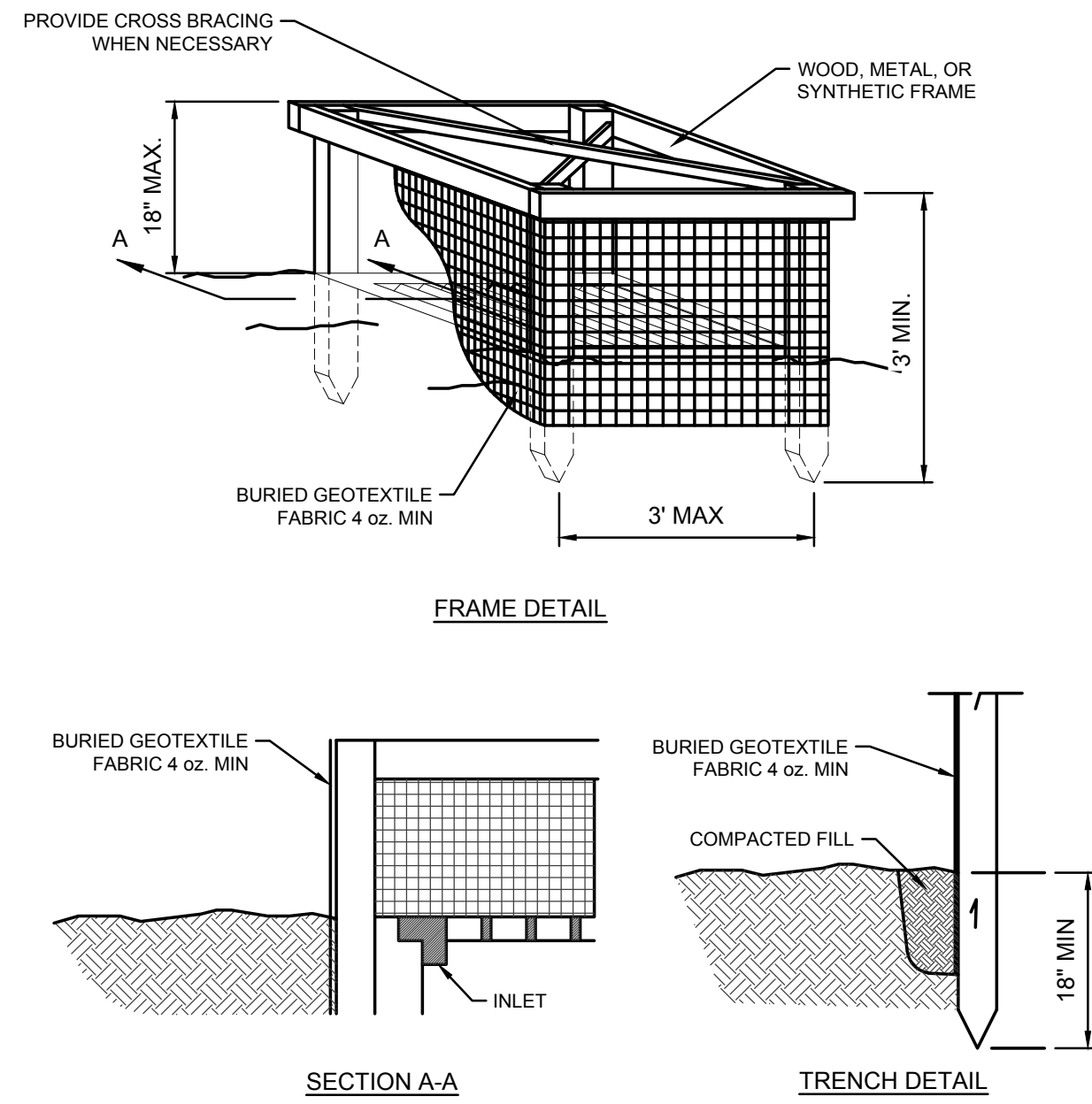


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PUBLIC ROADWAY WIDENING PLANS  
FOR  
**SCHIER RINGS ROAD**  
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
**EROSION CONTROL NOTES**

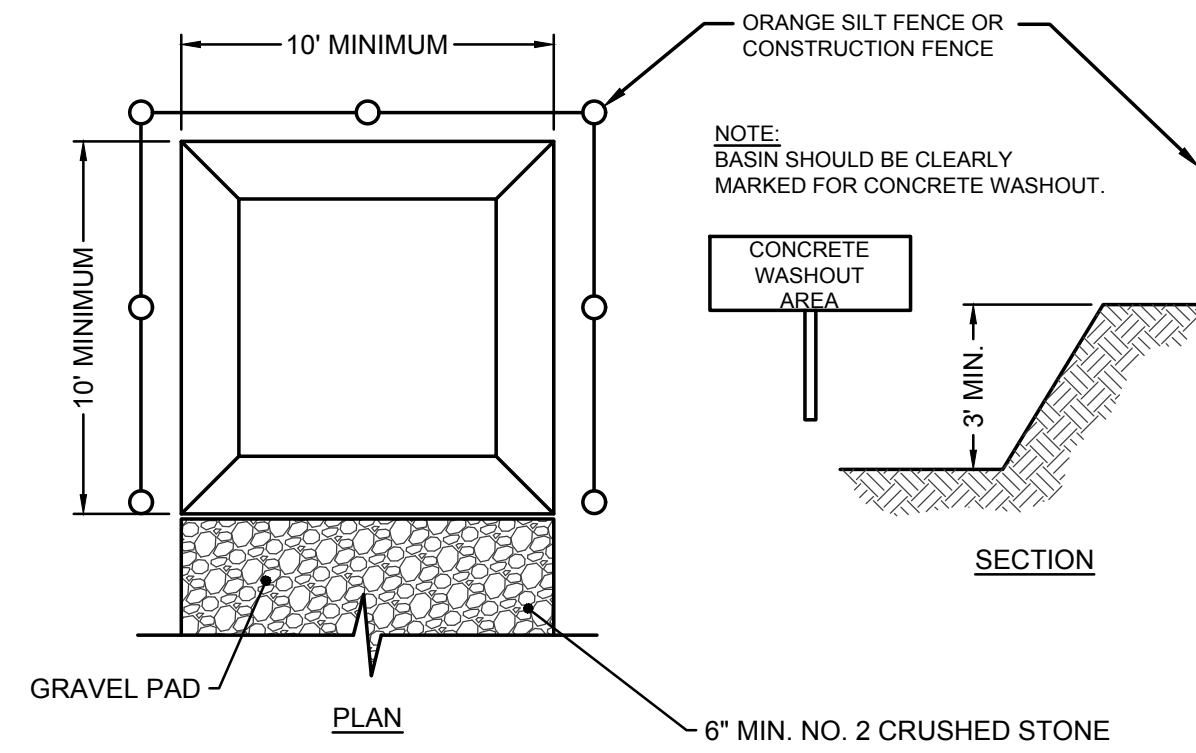
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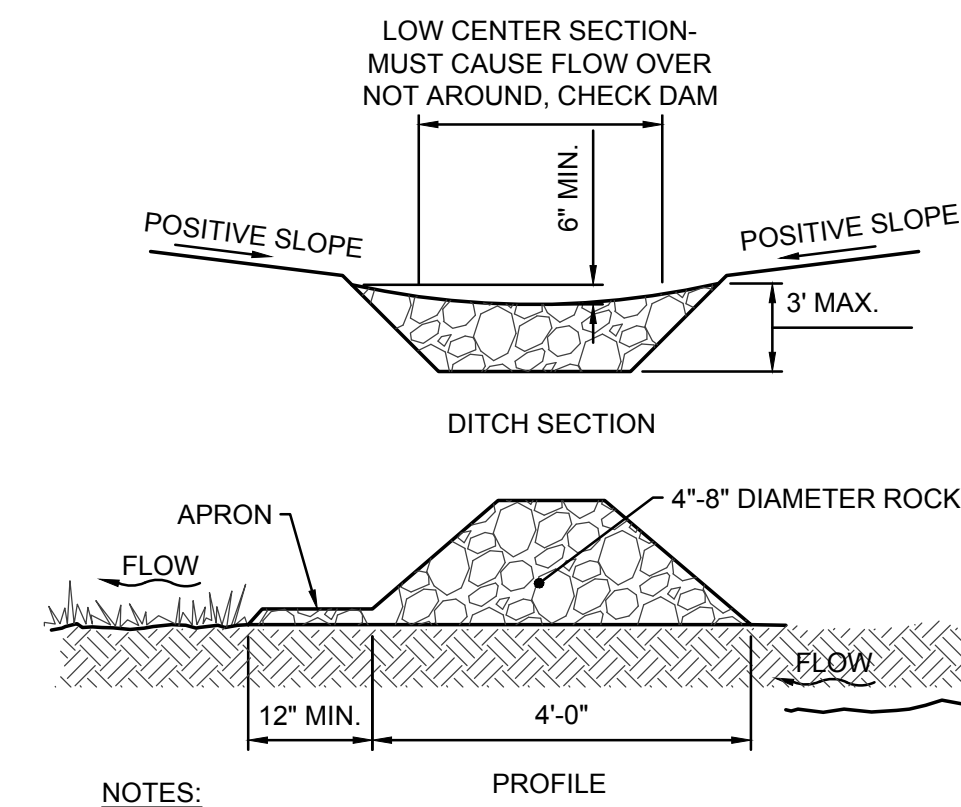
**NOTE:**  
PROVIDE FOR INLETS **NOT** LOCATED IN PAVEMENT

**A** SILT FENCE INLET PROTECTION  
NOT TO SCALE



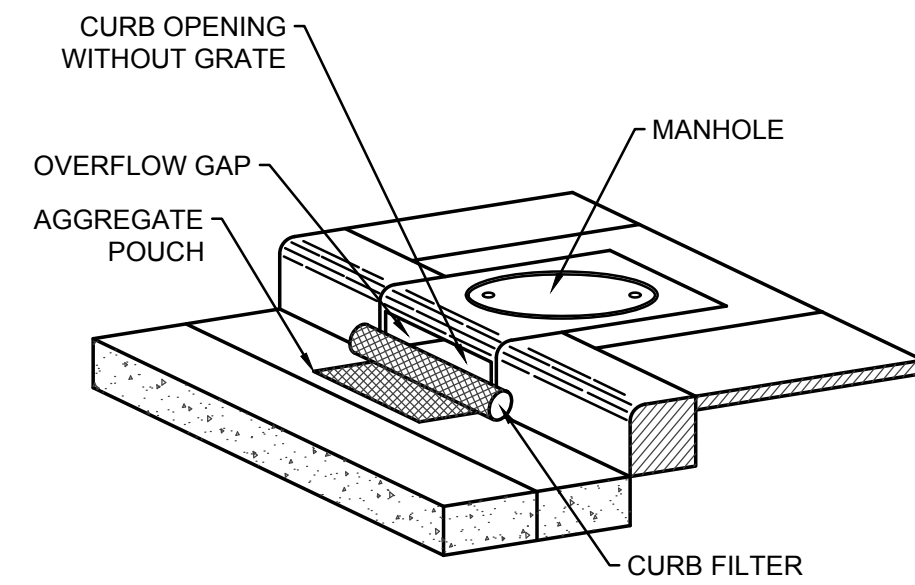
**NOTE:**  
1. ACTUAL LAYOUT DETERMINED IN THE FIELD, BY CONTRACTOR.  
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

**B** CONCRETE WASHOUT AREA  
NOT TO SCALE



**NOTES:**  
1. CONSTRUCT CHECK DAM SUCH THAT THE CENTER IS 6\"/>

**C** ROCK CHECK DAM  
NOT TO SCALE



- INSTALLATION:**
- STAND GRATE ON END. SLIDE THE BEAVER DAM BAG ON WITH DAM ON TOP OF THE GRATE. PULL ALL EXCESS DOWN.
  - LAY UNIT ON ITS SIDE. CAREFULLY TUCK FLAP IN. PRESS VELCRO STRIPS TOGETHER.
  - INSTALL THE UNIT MAKING SURE FRONT EDGE OF GRATE IS INSERTED IN FRAME FIRST, THEN LOWER BACK INTO PLACE.
  - PRESS VELCRO DOTS TOGETHER WHICH ARE LOCATED UNDER LIFTING STRAPS. THIS ENSURES STRAPS REMAIN FLUSH WITH GUTTER.

- MAINTENANCE:**
- WITH A STIFF BRISTLE BROOM, SWEEP SILT AND OTHER DEBRIS OFF SURFACE AFTER EACH STORM EVENT.

DANDY BAG WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS

GRAB TENSILE STRENGTH	ASTM D 4632
GRAB TENSILE ELONGATION	ASTM D 4632
PUNCTURE STRENGTH	ASTM D 4833
MULLEN BURST STRENGTH	ASTM D 3786
TRAPEZOID TEAR STRENGTH	ASTM D 4533
UV RESISTANCE	ASTM D 4355
APPARENT OPENING SIZE	ASTM D 4751
FLOW RATE	ASTM D 4491
PERMITIVITY	ASTM D 4491

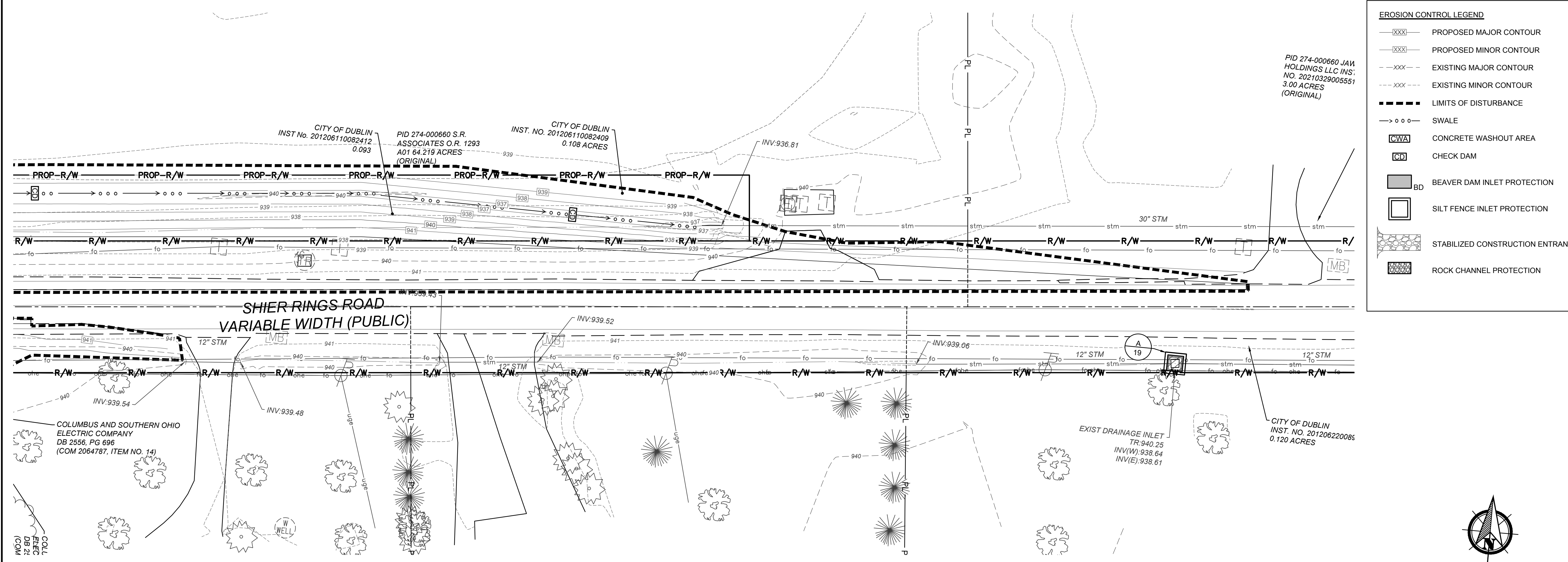
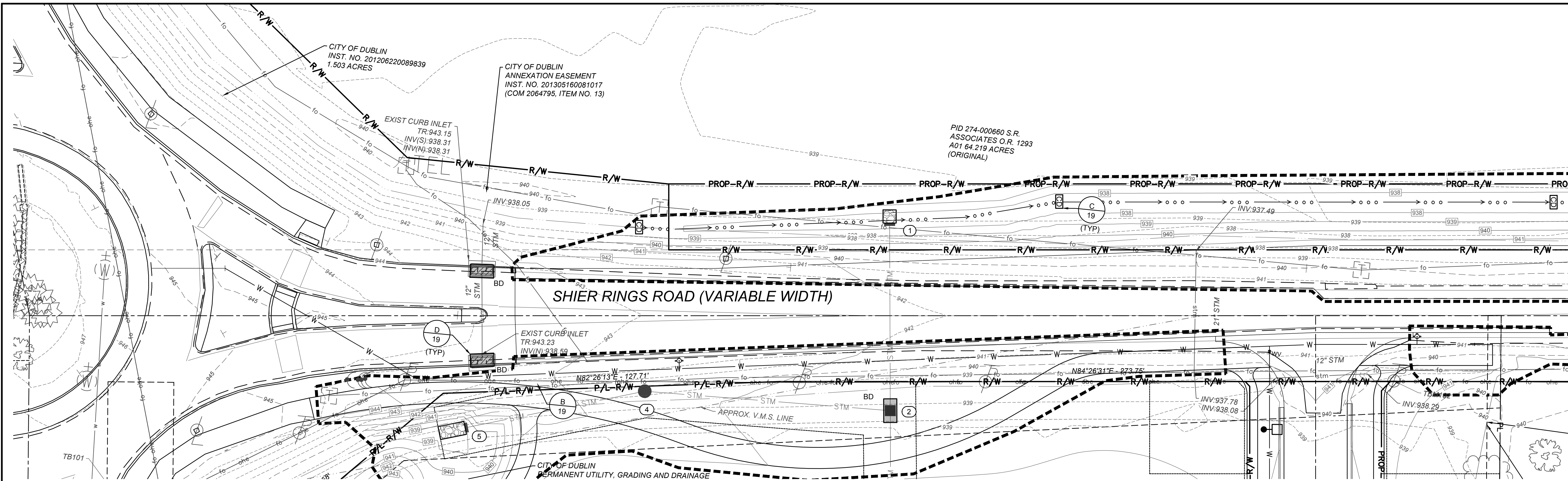
**D** BEAVER DAM INLET PROTECTION  
NOT TO SCALE

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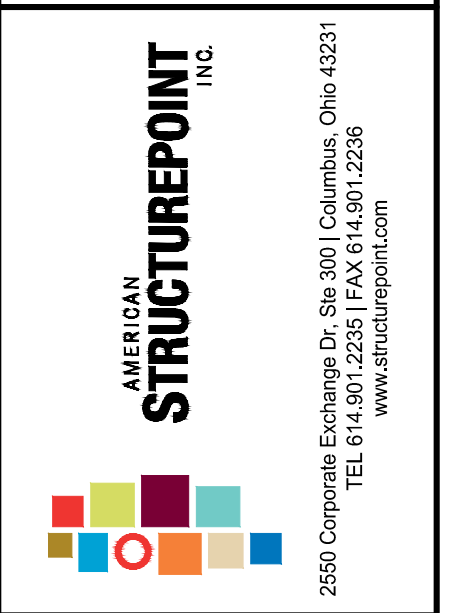
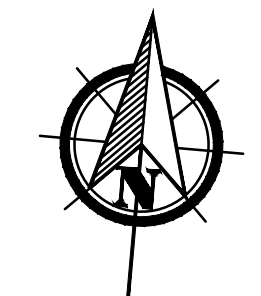
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PLOT SCALE: 1"=10' DATE: 7/9/21 - 10:18 AM EDITED BY: BUSHNONG DRAWING: CIVIL CONSTRUCTION DOCUMENT: PUBLIC ROADWAY/2019/01745.CE.ESC.DWG



**EROSION CONTROL LEGEND**

- XXX— PROPOSED MAJOR CONTOUR
- - - - - PROPOSED MINOR CONTOUR
- - - - - EXISTING MAJOR CONTOUR
- - - - - EXISTING MINOR CONTOUR
- LIMITS OF DISTURBANCE
- > o o o SWALE
- [CWA] CONCRETE WASHOUT AREA
- [CD] CHECK DAM
- [BD] BEAVER DAM INLET PROTECTION
- [SIF] SILT FENCE INLET PROTECTION
- [SCE] STABILIZED CONSTRUCTION ENTRANCE
- [RCP] ROCK CHANNEL PROTECTION



PUBLIC ROADWAY WIDENING PLANS  
FOR  
**SHIER RINGS ROAD**  
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

**EROSION CONTROL PLAN**

REVISIONS	DATE	SHEET NO.	DESCRIPTION

DATE:	07/09/2021
DRAWN BY:	GPB
CHECKED BY:	JRP
JOB NUMBER:	2019.01745