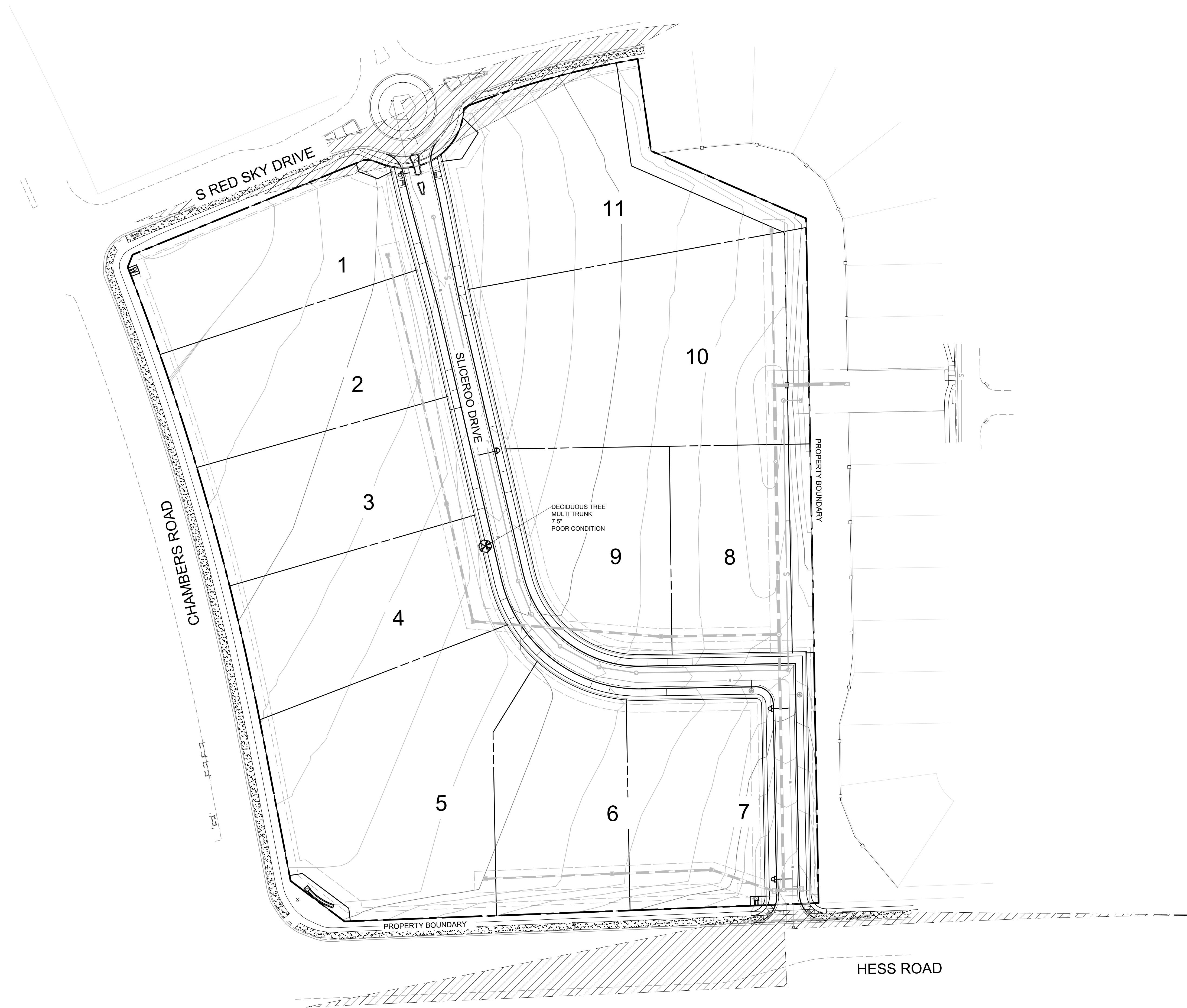


DOUGLAS 234, FILING NO.6

A PORTION OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 29,
TOWNSHIP 6 SOUTH, RANGE 66 WEST, 6TH PRINCIPAL MERIDIAN,
TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO
13.80 ACRES, 11 COMMERCIAL LOTS



EXISTING TREE
TO BE REMOVED

SIZE: MULTI-TRUNK 7.5"
SPECIES: PLATANUS / COTTONWOOD
CONDITION: POOR
SPECIES VALUE: 45%
NO MITIGATION VALUE



IMAGE OF TREE ON SITE.

LANDSCAPE AND IRRIGATION PLANS
DOUGLAS COUNTY 234
FILING NO. 6
DOUGLAS COUNTY, COLORADO

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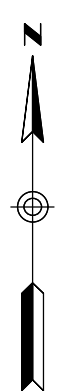
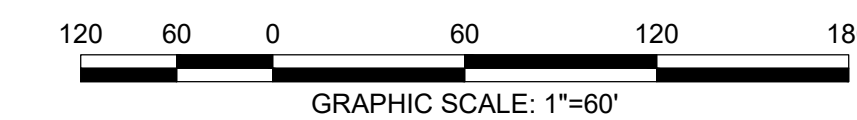
TREE
MITIGATION PLAN

PROJECT NO. D01173-A
1173

DRAWING NO.
LM-01

SHEET NO. 02 OF 15 SHEETS

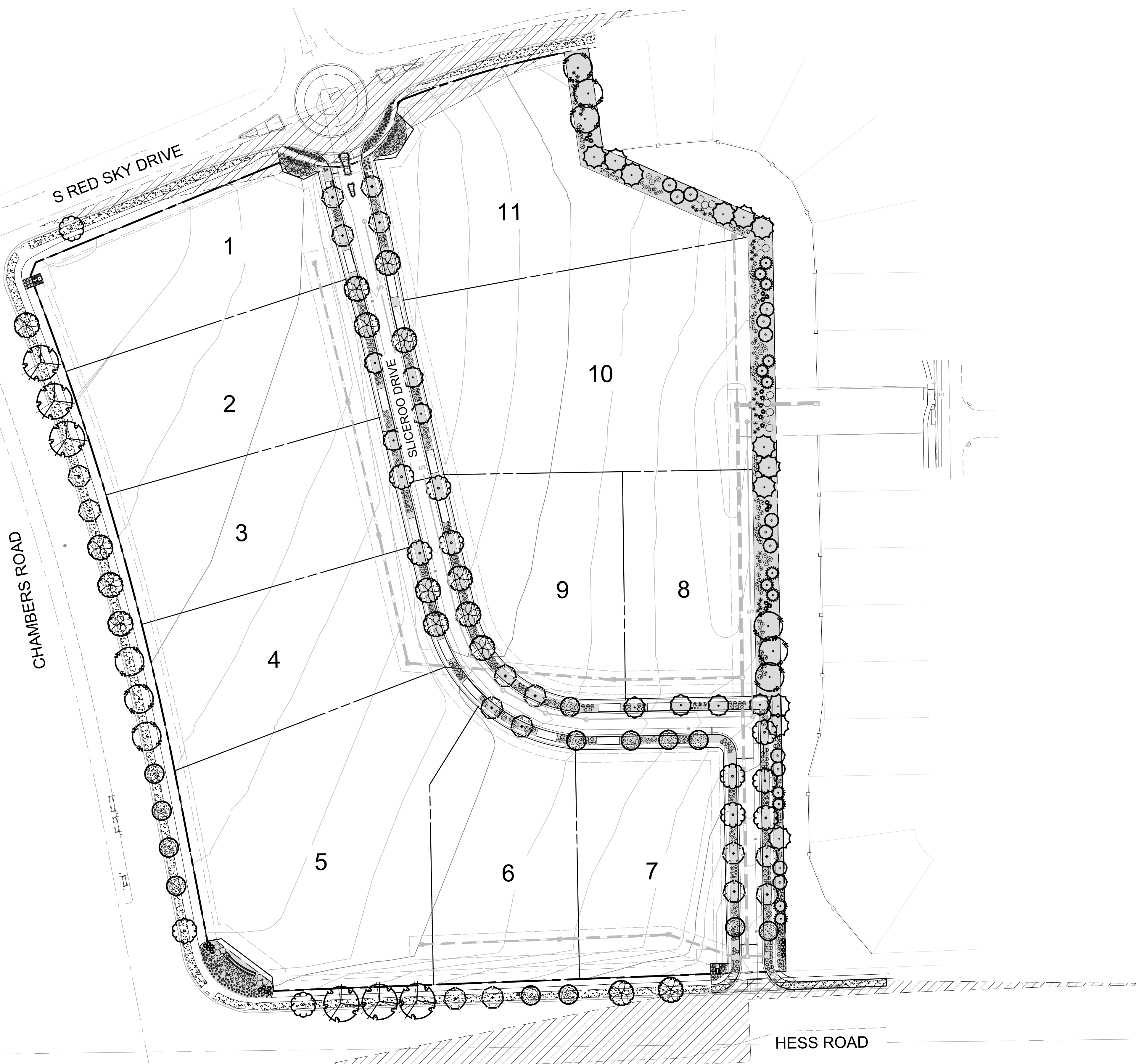
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DOUGLAS 234, FILING NO.6

A PORTION OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 29,
TOWNSHIP 6 SOUTH, RANGE 66 WEST, 6TH PRINCIPAL MERIDIAN,
TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO
13.80 ACRES, 11 COMMERCIAL LOTS



LEGEND		
SYMBOL	ABBREV	COMMON NAME / BOTANICAL NAME
	CASP	Catalpa / Catalpa Speciosa
	CEOC	Common Hackberry / Celtis occidentalis
	GLTR	Imperial Honeylocust / Gleditsia tricanthos inermis 'Impcole'
	ULMO	American Elm / Ulmus 'Accolade'
Ornamental Trees		
	CRCR	Cockspur Thornless Hawthorn / Crataegus crus-galii var. inermis
	KOPA	Goldenrain Tree / Koelreuteria paniculata
	PYCA	Prairie Gem Pear / Pyrus ussuriensis 'Prairie Gem Pear'
Evergreen Trees		
	PIPU	Bakeri Spruce / Picea pungens 'Bakeri'
	PIHE	Bosnian Pine / Pinus heldreichii
	PINI	Austrian Pine / Pinus nigra
Deciduous Shrubs		
	AMAL	Saskatoon Serviceberry / Amelanchier alnifolia
	COSK	Kelsey Dogwood / Cornus sericea 'Kelseyi'
	PEAT	Russian Sage / Perovskia atriplicifolia
	PRBE	Sandcherry Pawnee Buttes / Prunus besseyii 'Pawnee Buttes'
	RHTR	Threeleaf Sumac / Rhus trilobata
	SPJA	Daphne Spirea / Spirea japonica 'Alpina'
	SYPA	Miss Kim Dwarf Lilac / Syringa patula 'Miss Kim'
Evergreen Shrubs		
	ARPA	Panchito Manzanita / Arctostaphylos 'Panchito'
	CYMI	Minstead Broom / Cytisus x 'Minstead'
	EUFO	Emerald Gaeity Euonymus / Euonymus fortunei 'Emerald Gaiety'
	JUSA	Arcadia Juniper Juniperus sabinia 'Arcadia'
	PIMU	Mops Mugo Pine / Pinus mugo 'Mops'
Ornamental Grasses		
	PEAL	Little Bunny Fountain Grass / Pennisetum alopecuroides 'Little Bunny'
Groundcovers		
		Turf
		Rock Mulch
		Steel Edger

NOTE: ACTUAL LOT ENTRANCES WILL BE LOCATED AT THE TIME LOTS ARE DEVELOPED WITH SITE PLANS.

LANDSCAPE AND IRRIGATION PLANS
DOUGLAS COUNTY 234
FILING NO. 6
 DOUGLAS COUNTY, COLORADO

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JOB NO: D01173-A

LANDSCAPE PLAN

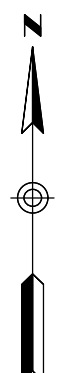
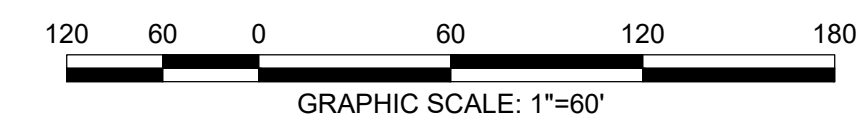
PROJECT NO. D01173-A
1173

DRAWING NO.

LP-01

SHEET NO. 03 OF 15 SHEETS

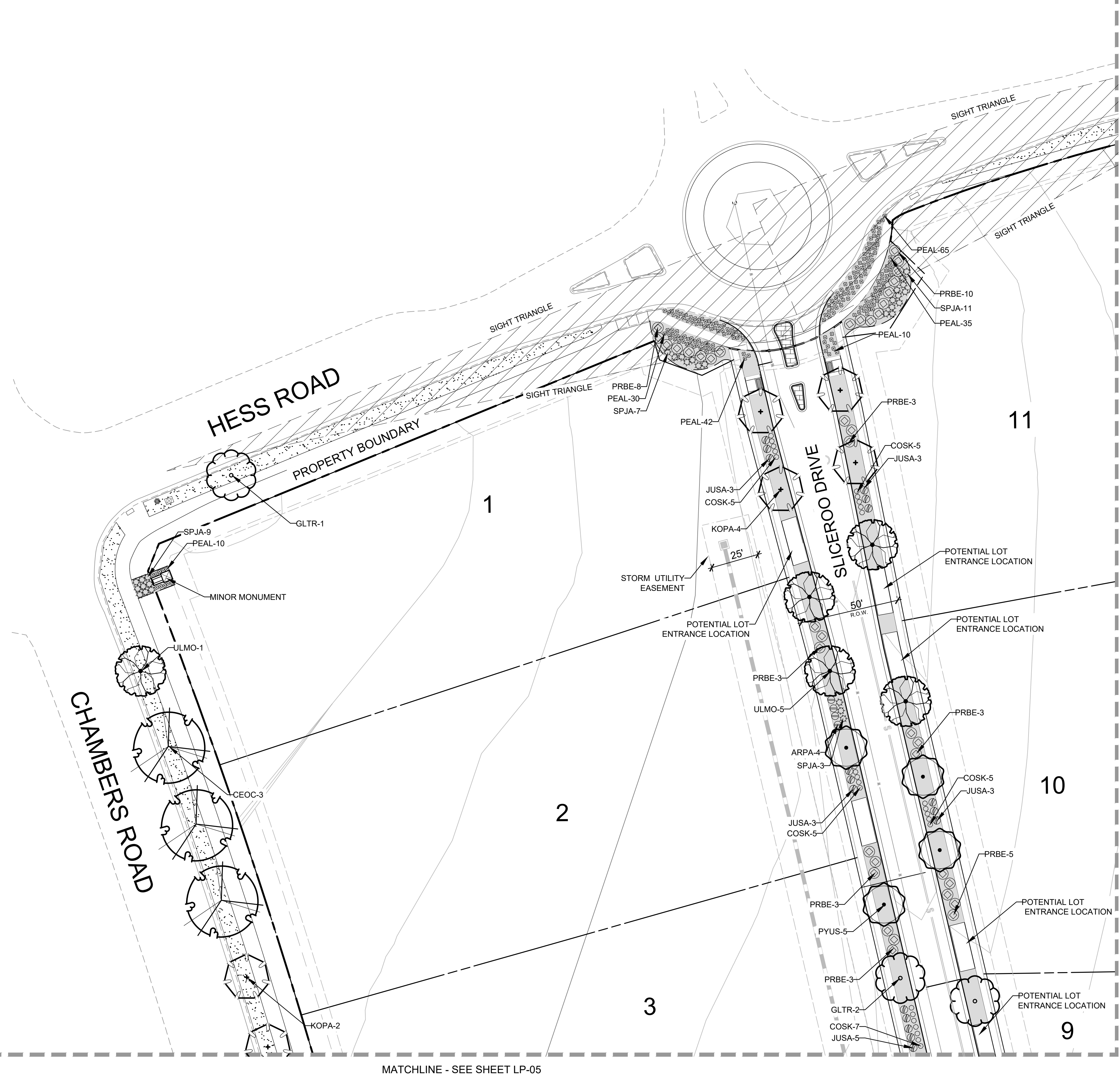
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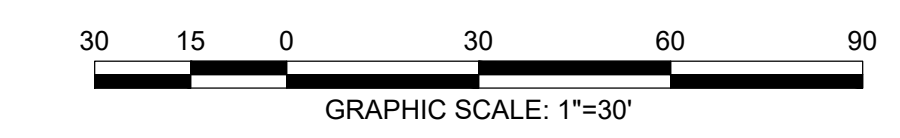
DOUGLAS 234, FILING NO.6

A PORTION OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 29,
TOWNSHIP 6 SOUTH, RANGE 66 WEST, 6TH PRINCIPAL MERIDIAN,
TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO
13.80 ACRES, 11 COMMERCIAL LOTS



LEGEND		
SYMBOL	ABBREV	COMMON NAME / BOTANICAL NAME
	CASP	Catalpa / Catalpa Speciosa
	CEOC	Common Hackberry / Celtis occidentalis
	GLTR	Imperial Honeylocust / Gleditsia tricanthos inermis 'Impcole'
	ULMO	American Elm / Ulmus 'Accolade'
Ornamental Trees		
	CRCR	Cockspur Thornless Hawthorn / Crataegus crus-galii var. inermis
	KOPA	Goldenrain Tree / Koeleruteria paniculata
	PYCA	Prairie Gem Pear / Pyrus ussuriensis 'Prairie Gem Pear'
Evergreen Trees		
	PIPU	Bakeri Spruce / Picea pungens 'Bakeri'
	PIHE	Bosnian Pine / Pinus heldreichii
	PINI	Austrian Pine / Pinus nigra
Deciduous Shrubs		
	AMAL	Saskatoon Serviceberry / Amelanchier alnifolia
	COSK	Kelsey Dogwood / Cornus sericea 'Kelsey'
	PEAT	Russian Sage / Perovskia atriplicifolia
	PRBE	Sandcherry Pawnee Buttes / Prunus besseyii 'Pawnee Buttes'
	RHTR	Threeleaf Sumac / Rhus trilobata
	SPJA	Daphne Spirea / Spirea japonica 'Alpina'
	SYPA	Miss Kim Dwarf Lilac / Syringa patula 'Miss Kim'
Evergreen Shrubs		
	ARPA	Panchito Manzanita / Arctostaphylos 'Panchito'
	CYMI	Minstead Broom / Cytisus x 'Minstead'
	EUFO	Emerald Gaeity Euonymus / Euonymus fortunei 'Emerald Gaeity'
	JUSA	Arcadia Juniper Juniperus sabinia 'Arcadia'
	PIMU	Mops Mugo Pine / Pinus mugo 'Mops'
Ornamental Grasses		
	PEAL	Little Bunny Fountain Grass / Pennisetum alopecuroides 'Little Bunny'
Groundcovers		
	Turf	
	Rock Mulch	
	Steel Edger	

NOTE: ACTUAL LOT ENTRANCES WILL BE LOCATED AT THE TIME LOTS ARE DEVELOPED WITH SITE PLANS.



LANDSCAPE AND IRRIGATION PLANS
DOUGLAS COUNTY 234
FILING NO. 6
 DOUGLAS COUNTY, COLORADO

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LANDSCAPE PLANTING PLAN

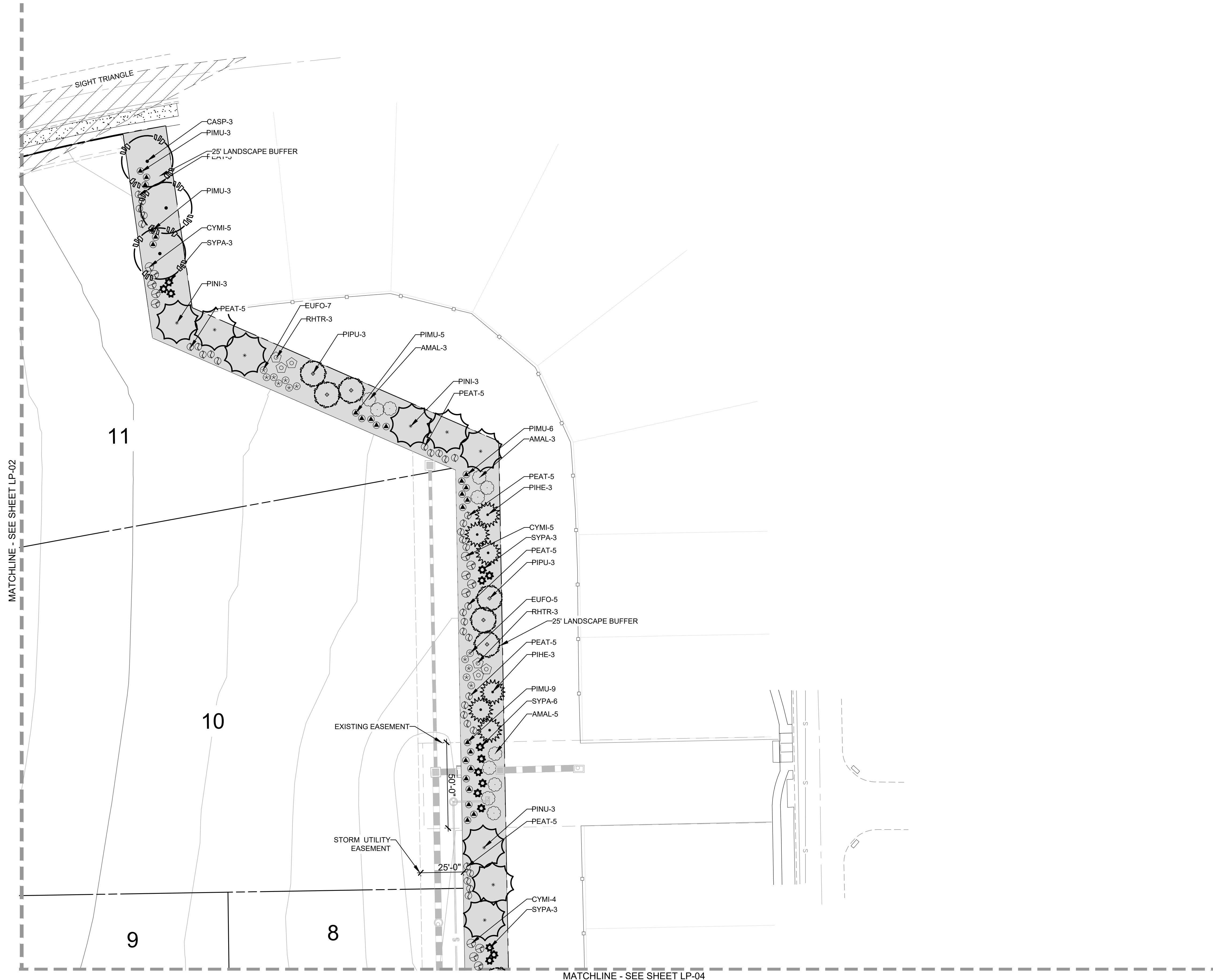
PROJECT NO. D01173-A
DRAWING NO.
LP-02
SHEET NO. 04 OF 15 SHEETS

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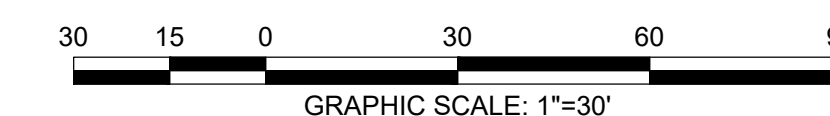
DOUGLAS 234, FILING NO.6

A PORTION OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 29,
TOWNSHIP 6 SOUTH, RANGE 66 WEST, 6TH PRINCIPAL MERIDIAN,
TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO
13.80 ACRES, 11 COMMERCIAL LOTS



LEGEND		
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	ULMO	American Elm / Ulmus 'Accolade'
Ornamental Trees		
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Evergreen Trees		
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Deciduous Shrubs		
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Ornamental Grasses		
	PEAL	Little Bunny Fountain Grass / Pennisetum alopecuroides 'Little Bunny'
Groundcovers		
		Turf
		Rock Mulch
		Steel Edger

NOTE: ACTUAL LOT ENTRANCES WILL BE LOCATED AT THE TIME LOTS ARE DEVELOPED WITH SITE PLANS.



LANDSCAPE AND IRRIGATION PLANS
DOUGLAS COUNTY 234
FILING NO. 6
 DOUGLAS COUNTY, COLORADO

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LANDSCAPE PLANTING PLAN

PROJECT NO. D01173-A

DRAWING NO.

LP-03

SHEET NO. 05 OF 15 SHEETS

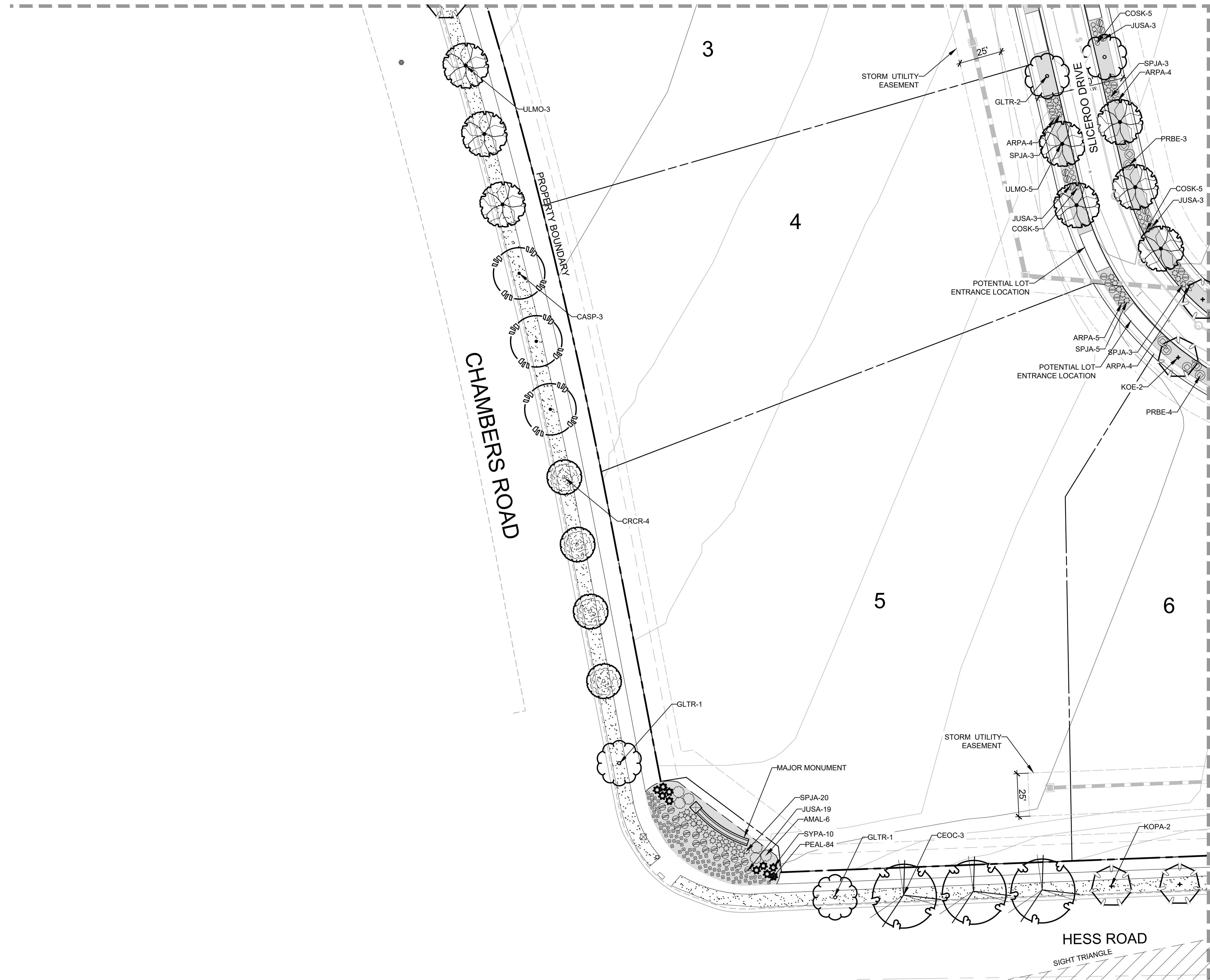
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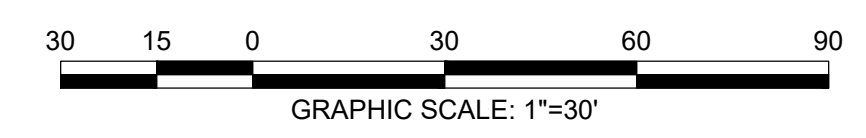
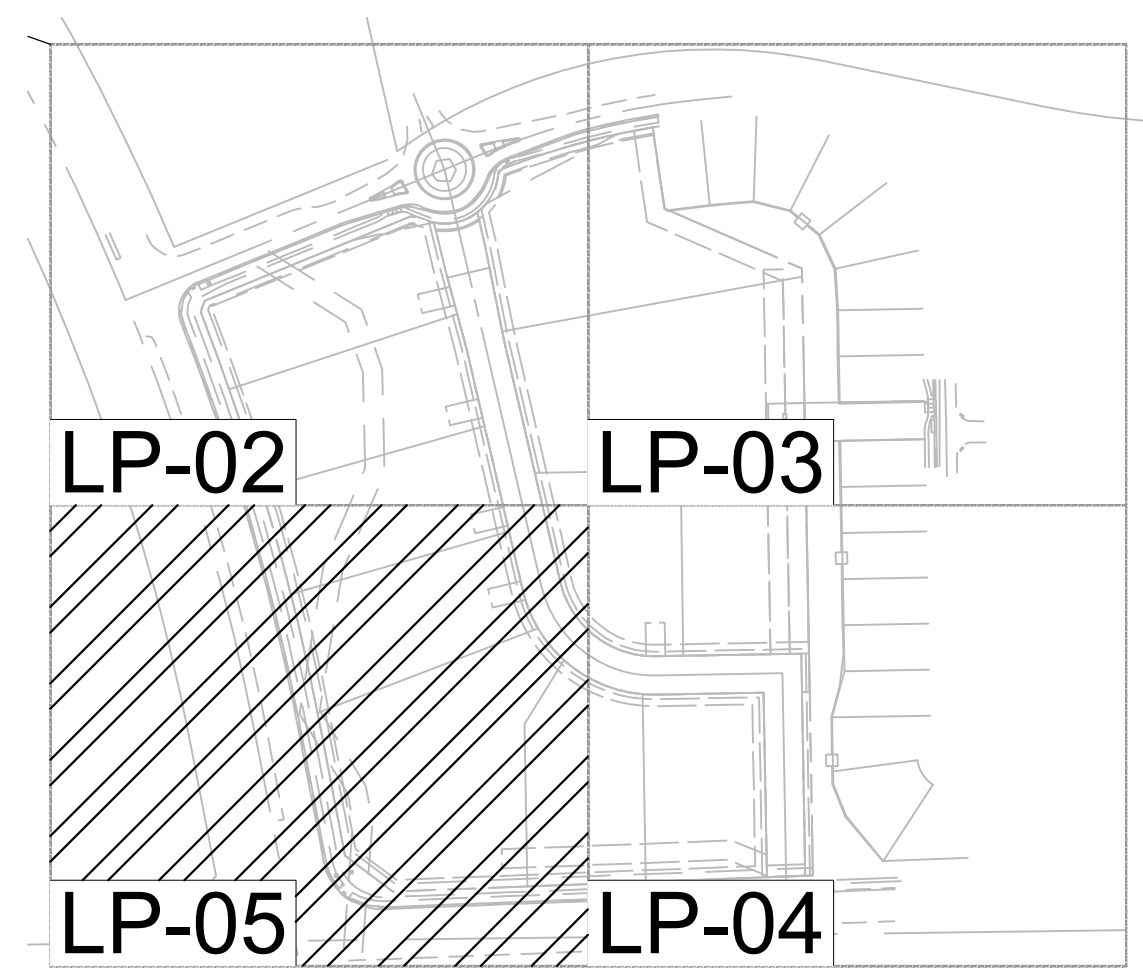
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TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO
13.80 ACRES, 11 COMMERCIAL LOTS

MATCHLINE - SEE SHEET LP-02



LEGEND		
SYMBOL	ABBREV	COMMON NAME / BOTANICAL NAME
	CASP	Catalpa / Catalpa Speciosa
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	EUFO	Emerald Gaiety Euonymus / Euonymus fortunei 'Emerald Gaiety'
	JUSA	Arcadia Juniper Juniperus sabinia 'Arcadia'
	PIMU	Mops Mugo Pine / Pinus mugo 'Mops'
Ornamental Grasses		
	PEAL	Little Bunny Fountain Grass / Pennisetum alopecuroides 'Little Bunny'
Groundcovers		
		Turf
		Rock Mulch
		Steel Edger

NOTE: ACTUAL LOT ENTRANCES WILL BE LOCATED AT THE TIME LOTS ARE DEVELOPED WITH SITE PLANS.



LANDSCAPE AND IRRIGATION PLANS
DOUGLAS COUNTY 234
FILING NO. 6
 DOUGLAS COUNTY, COLORADO

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LANDSCAPE PLANTING PLAN

PROJECT NO. D01173-A
1173
DRAWING NO.
LP-05
SHEET NO. 07 OF 15 SHEETS

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DOUGLAS 234, FILING NO.6

A PORTION OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 29,
TOWNSHIP 6 SOUTH, RANGE 66 WEST, 6TH PRINCIPAL MERIDIAN,
TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO
13.80 ACRES, 11 COMMERCIAL LOTS

GENERAL LANDSCAPE NOTES

- THE CONTRACTOR SHALL FOLLOW THE LANDSCAPE PLANS AND SPECIFICATIONS AS CLOSELY AS POSSIBLE. ANY SUBSTITUTION OR ALTERATION SHALL NOT BE ALLOWED WITHOUT APPROVAL OF THE OWNER'S REPRESENTATIVE. OVERALL PLANT QUANTITY AND QUALITY SHALL BE CONSISTENT WITH THE PLANS.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES.
- THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO INSPECT AND TAG ALL PLANT MATERIAL PRIOR TO SHIPPING TO THE SITE. IN ALL CASES, THE OWNER'S REPRESENTATIVE MAY REJECT PLANT MATERIAL AT THE SITE IF MATERIAL IS DAMAGED, DISEASED, OR DECLINING IN HEALTH AT THE TIME OF ONSITE INSPECTIONS OR IF THE PLANT MATERIAL DOES NOT MEET THE MINIMUM SPECIFIED STANDARD IDENTIFIED ON THE PLANS AND IN THE SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR INSPECTION AND APPROVAL OF ALL MATERIALS AND PRODUCTS PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL WARRANT ALL CONTRACTED WORK AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION HAS BEEN ISSUED BY THE OWNER'S REPRESENTATIVE FOR THE ENTIRE PROJECT UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS OR SPECIFICATIONS.
- ALL WEEDS TO BE REMOVED AND DISPOSED OF.
- TREES SHALL NOT BE LOCATED IN DRAINAGE SWALES, DRAINAGE AREAS, OR UTILITY EASEMENTS. CONTACT OWNER'S REPRESENTATIVE FOR RELOCATION OF PLANTS IN QUESTIONABLE AREAS PRIOR TO INSTALLATION.
- ALL ROCK MULCH PLANTER BEDS TO HAVE 1 1/2" RIVER ROCK AT A 3" DEPTH OVER MIRAFI WEED BARRIER FABRIC.

LANDSCAPE TABLE

RESIDENTIAL 25' LANDSCAPE BUFFER	1 TREE / 5 SHRUBS PER 25 LF	TREES REQ.	TREES PROV.	SHRUBS REQ.	SHRUBS PROV.
	798 LF	32	33	160	160

ROADWAY LANDSCAPE BUFFER	1 TREE / 5 SHRUBS PER 30 LF	TREES REQ.	TREES PROV.	SHRUBS REQ.	SHRUBS PROV.
	290 LF	10	11	49	40

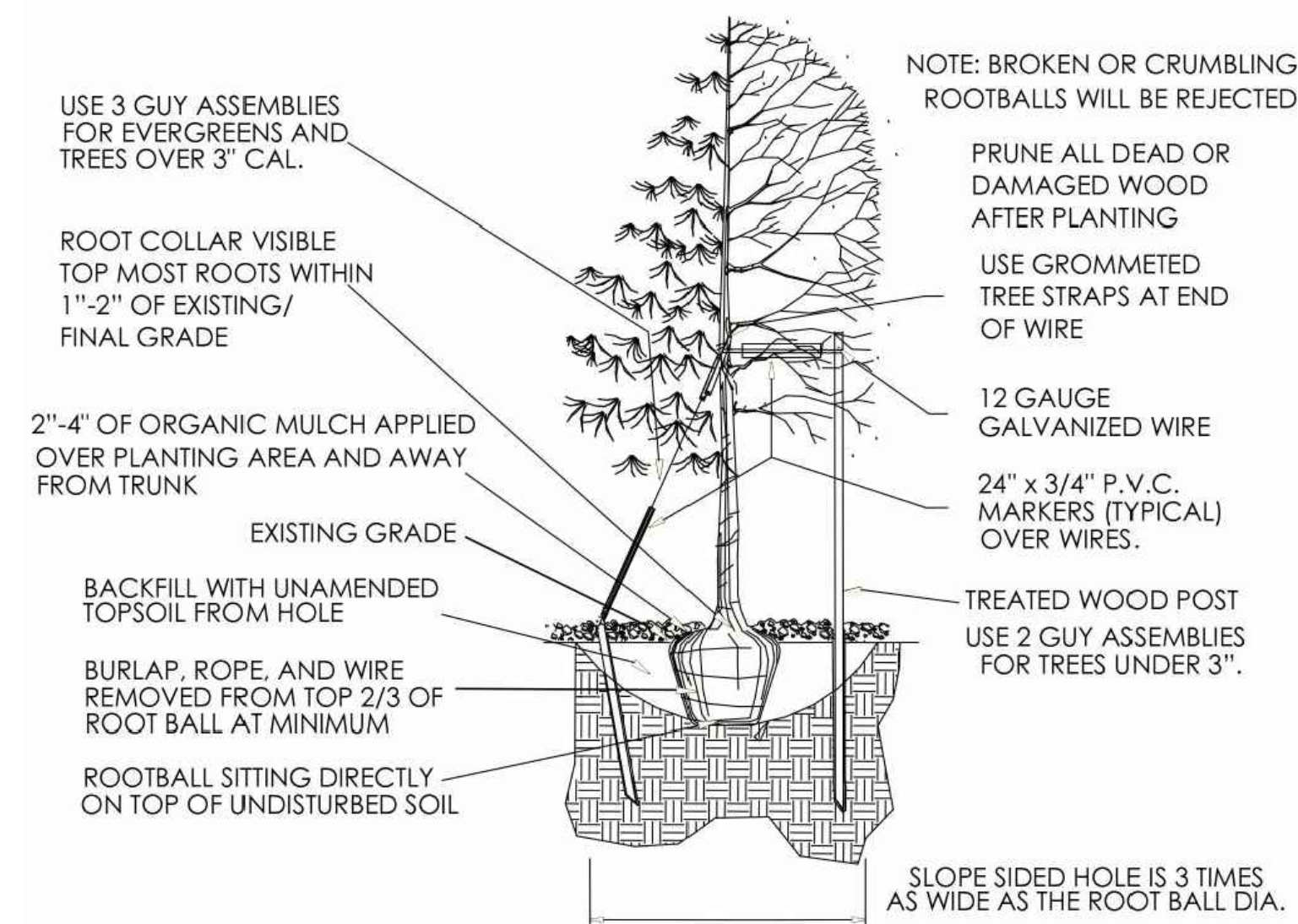
STREETSCAPE PLANTING	1 TREE PER 40 LF	TREES REQ.	TREES PROV.
SLICEROO DRIVE WEST	891 LF	22	21
SLICEROO DRIVE EAST	940 LF	24	24
CHAMBERS ROAD	748 LF	19	17
HESS ROAD	481 LF	12	10

* NO TREE MITIGATION REQUIRED FOR EXISTING TREE (SEE TREE MITIGATION PLAN.)

TREE PLANTING NOTES

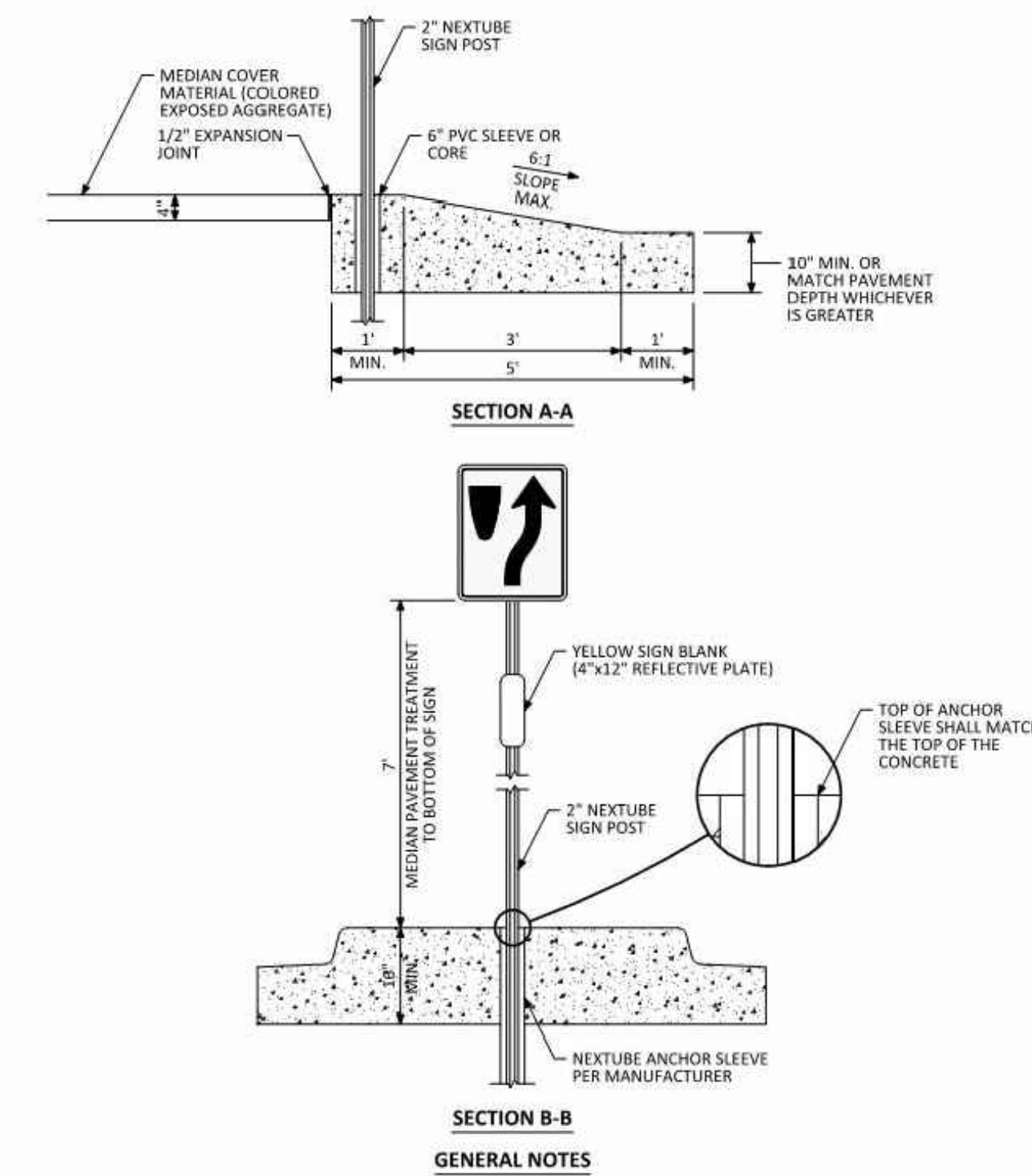
- EXCAVATE PLANTING HOLES WITH SLOPING SIDES. MAKE EXCAVATIONS AT LEAST THREE TIMES AS WIDE AS THE ROOT BALL DIAMETER AND NO DEEPER THAN THE DISTANCE FROM THE TOP MOST ROOTS IN THE ROOT BALL TO THE BOTTOM OF THE ROOT BALL TO ALLOW FOR SETTLING. DO NOT DISTURB SOIL AT BOTTOM OF PLANTING HOLES, BUT DO SCORE THE SIDES OF THE PLANTING HOLE. THE PLANTING AREA SHALL BE LOOSELY AND AERATED AT LEAST THREE TIMES THE DIAMETER OF THE ROOT BALL. BACKFILL SHALL CONSIST OF EXISTING ON SITE TOPSOIL - NO AMENDMENTS SHALL BE USED UNLESS OTHERWISE SPECIFIED.
- TREES SHALL BE PLANTED WITH THE ROOT COLLAR/FLARE VISIBLE ABOVE GRADE AND TWO OR MORE STRUCTURAL ROOTS LOCATED WITHIN THE TOP 1" TO 2" OF THE ROOT BALL/FINISHED GRADE MEASURED 3" TO 4" FROM TRUNK. THIS INCLUDES TREES THAT ARE SET ON SLOPES (SEE SLOPE PLANTING DETAIL). TREES THAT DO NOT HAVE A VISIBLE ROOT COLLAR SHALL BE REJECTED. DO NOT COVER THE ROOT BALL WITH SOIL.
- WHEN ROOT BALL WILL REMAIN INTACT, CUT OFF BOTTOM 1/4 OF WIRE BASKET BEFORE PLACING TREE IN HOLE, CUT OFF REMAINDER OF BASKET AFTER TREE IS SET IN HOLE, REMOVE BASKET COMPLETELY. AT A MINIMUM, THE TOP 2/3 OF THE BURLAP AND BASKET SHALL BE REMOVED FROM THE ROOT BALL ON ALL TREES. REMOVE ALL NYLON TIES, TWINE, ROPE AND BURLAP. REMOVE UNNECESSARY PACKING MATERIAL.
- FORM SOIL INTO A 3" TO 5" TALL WATERING RING (SAUCER) AROUND PLANTING AREA. THIS IS NOT NECESSARY IN IRRIGATED TURF AREAS. APPLY 2" TO 4" DEPTH OF SPECIFIED MULCH OVER PLANTING AREA AND INSIDE SAUCERS, AWAY FROM TRUNK.
- STAKING AND GUYING OF TREES IS OPTIONAL IN MOST PLANTING SITUATIONS. IN AREAS OF EXTREME WINDS, OR ON STEEP SLOPES, STAKING MAY BE REQUIRED TO STABILIZE TREES. STAKING AND GUYING MUST BE REMOVED WITHIN 1 YEAR OF PLANTING DATE.
- TREE WRAP IS NOT TO BE USED ON ANY NEW PLANTINGS, EXCEPT IN LATE FALL PLANTING SITUATIONS, AND ONLY THEN AFTER CONSULTATION WITH THE TOWN ARBORIST.
- RESETTING OF IMPROPERLY PLANTED TREES WILL ONLY BE ALLOWED IF IT IS DETERMINED THAT DOING SO WILL IN NO WAY COMPROMISE THE ROOT BALL, AND SHALL ONLY BE DONE WITH APPROVAL OF THE TOWN ARBORIST.

Symbol	QTY	ABBREV	COMMON NAME	BOTANICAL NAME	SIZE	HEIGHT
	9	CASP	Catalpa	Catalpa speciosa	2" CAL.	50'
	6	CEOC	Common Hackberry	Celtis occidentalis	2" CAL.	60'
	12	GLTR	Imperial Honeylocust	Gleditsia tricanthos inermis 'Impcole'	2" CAL.	35'
	15	ULMO	American Elm	Ulmus 'Accolade'	2" CAL.	60'
Ornamental Trees						
	13	CRCR	Cockspur Thornless Hawthorn	Crataegus crus-galli var. inermis	1 1/2" CAL.	20'
	16	KOPA	Goldenrain Tree	Koeleruteria paniculata	1 1/2" CAL.	30'
	8	PYUS	Prairie Gem Pear	Pyrus ussuriensis 'Prairie Gem Pear'	1 1/2" CAL.	25'
Evergreen Trees						
	13	PIPU	Bakeri Spruce	Picea pungens 'Bakeri'	6' TALL	35'
	13	PIHE	Bosnian Pine	Pinus heldreichii	6' TALL	30'
	12	PINI	Austrian Pine	Pinus nigra	6' TALL	50'
Deciduous Shrubs						
	17	AMAL	Saskatoon Serviceberry	Amelanchier alnifolia	5 GAL.	12'
	72	COSK	Kelsey Dogwood	Cornus sericea 'Kelsey'	5 GAL.	2.5'
	76	PEAT	Russian Sage	Perovskia atriplicifolia	5 GAL.	4'
	71	PRBE	Sandcherry Pawnee Buttes	Prunus besseyi 'Pawnee Buttes'	5 GAL.	1.5'
	9	RHTR	Threelobed Sumac	Rhus trilobata	5 GAL.	6'
	106	SPJA	Daphne Spirea	Spirea japonica 'Alpina'	5 GAL.	2'
	32	SYPA	Miss Kim Dwarf Lilac	Syringa patula 'Miss Kim'	5 GAL.	7'
Evergreen Shrubs						
	66	ARPA	Panchito Manzanita	Arctostaphylos 'Panchito'	5 GAL.	2'
	21	CYMI	Minstead Broom	Cytisus x 'Minstead'	5 GAL.	4'
	29	EUFO	Emerald Gaety Euonymus	Euonymus fortunei 'Emerald Gaety'	5 GAL.	4'
	63	JUSA	Arcadia Juniper	Juniperus sabinia 'Arcadia'	5 GAL.	2'
	31	PIMU	Mops Mugo Pine	Pinus mugo 'Mops'	5 GAL.	4'
Ornamental Grasses						
	295	PEAL	Little Bunny Fountain Grass	Pennisetum alopecuroides 'Little Bunny'	1 GAL.	1'
Groundcovers						
	14,687 SF		Turf	Existing Turf and Irrigation		
	42,878 SF		Rock Mulch	1 1/2" River rock decorative rock mulch		
	318 LF		Steel Edger			



TREE PLANTING

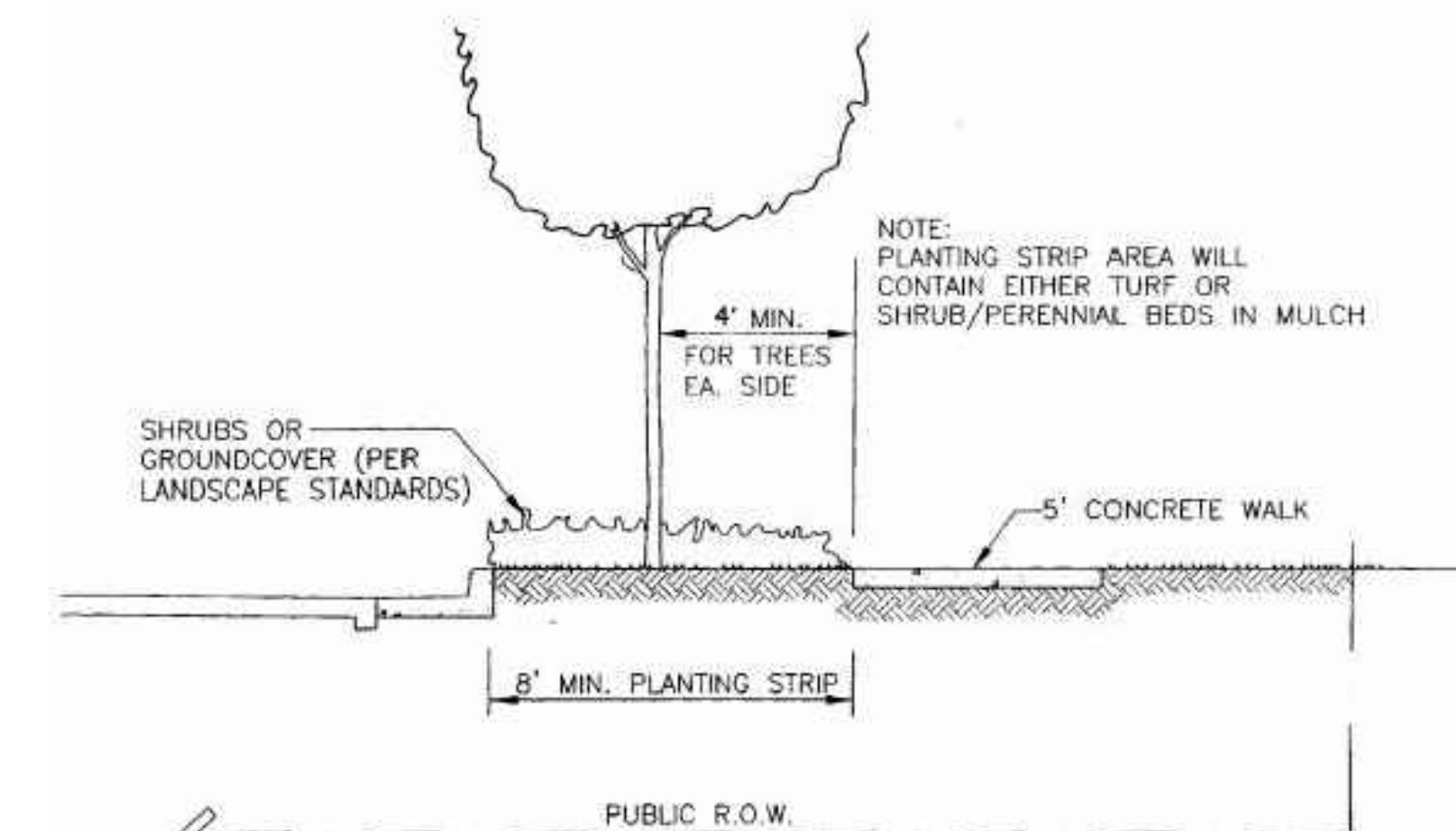
NTS



COLORED CONCRETE MEDIAN

DAVIS COLOR RUSTIC BROWN

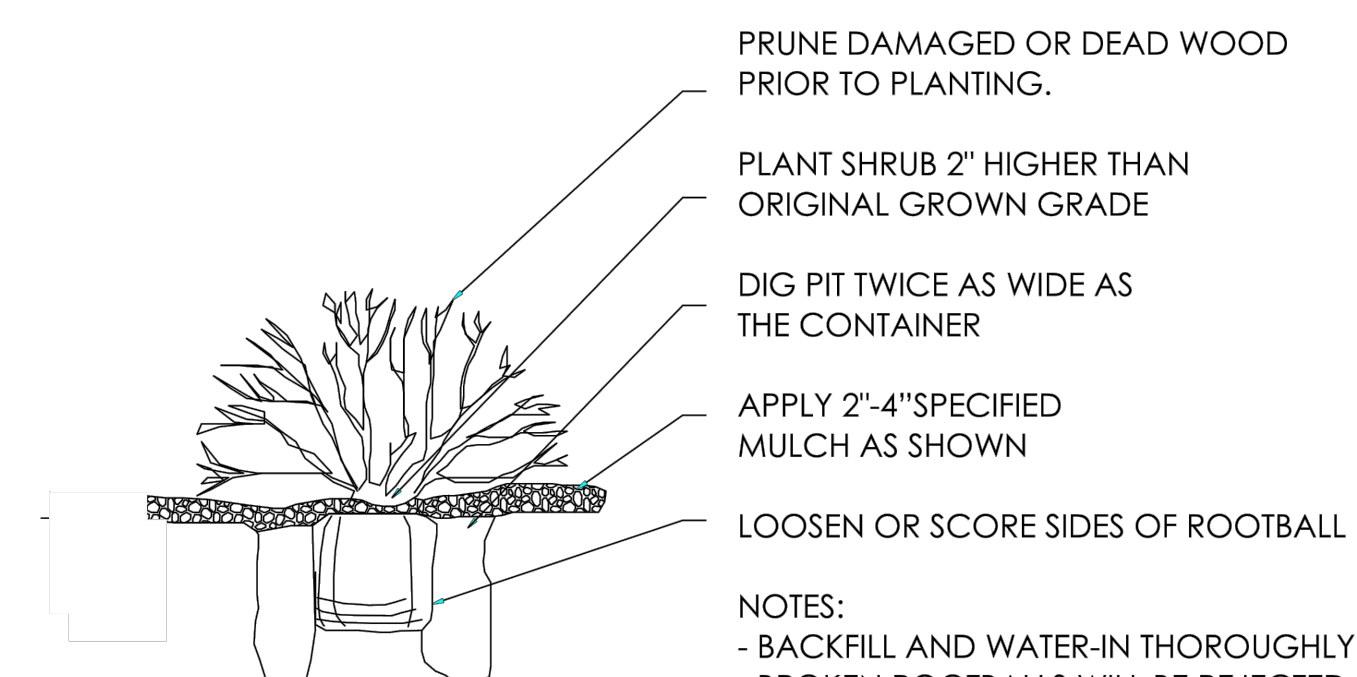
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* SEE ROADWAY DESIGN AND CONSTRUCTION CRITERIA MANUAL FOR TRENCH DRAIN DETAIL (REQUIRED ON VERTICAL CURB & GUTTER ALONG ARTERIALS)

STREET SECTION

NTS



SHRUB PLANTING

NTS

LANDSCAPE AND IRRIGATION PLANS
DOUGLAS COUNTY 234
FILING NO. 6
DOUGLAS COUNTY, COLORADO

RICK
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JOB NO: D01173-A

LANDSCAPE NOTES & DETAILS

PROJECT NO. D01173-A

DRAWING NO.

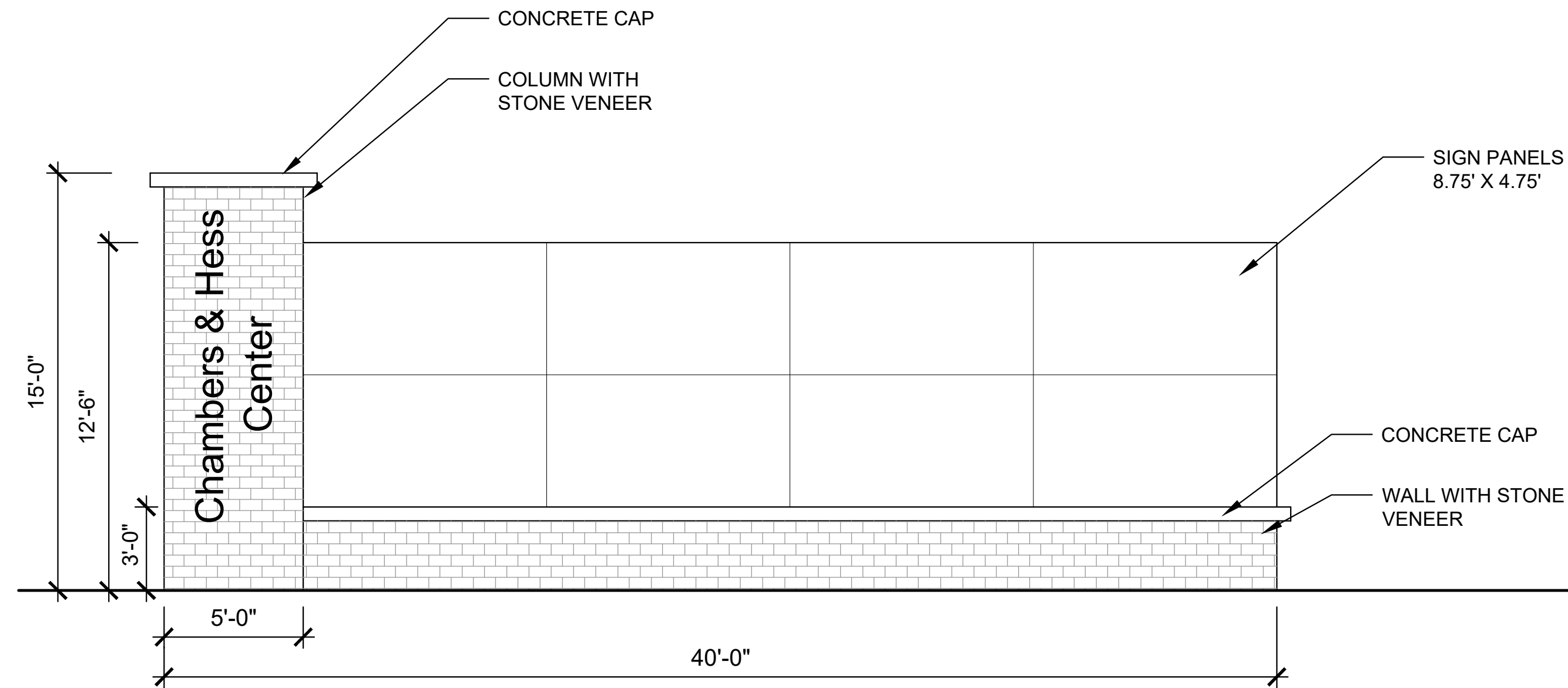
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SHEET NO. 08 OF 15 SHEETS

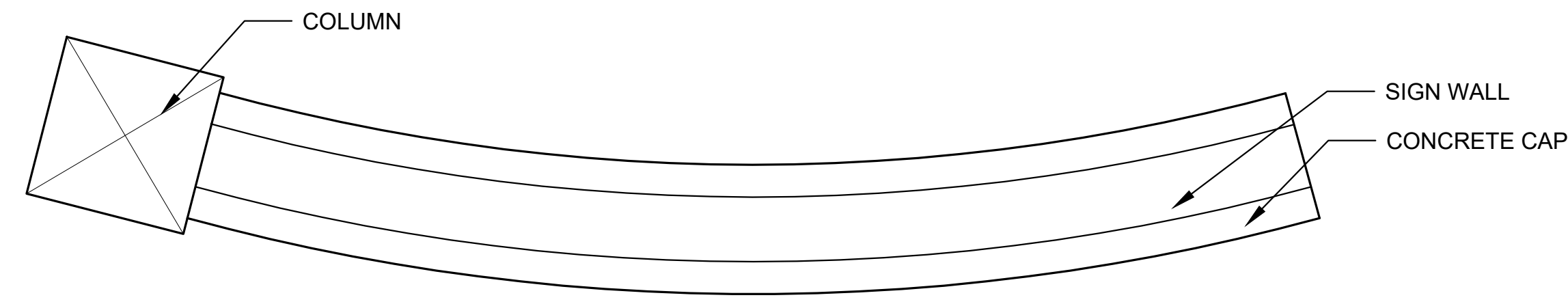
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DOUGLAS 234, FILING NO.6

A PORTION OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 29,
TOWNSHIP 6 SOUTH, RANGE 66 WEST, 6TH PRINCIPAL MERIDIAN,
TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO
13.80 ACRES, 11 COMMERCIAL LOTS

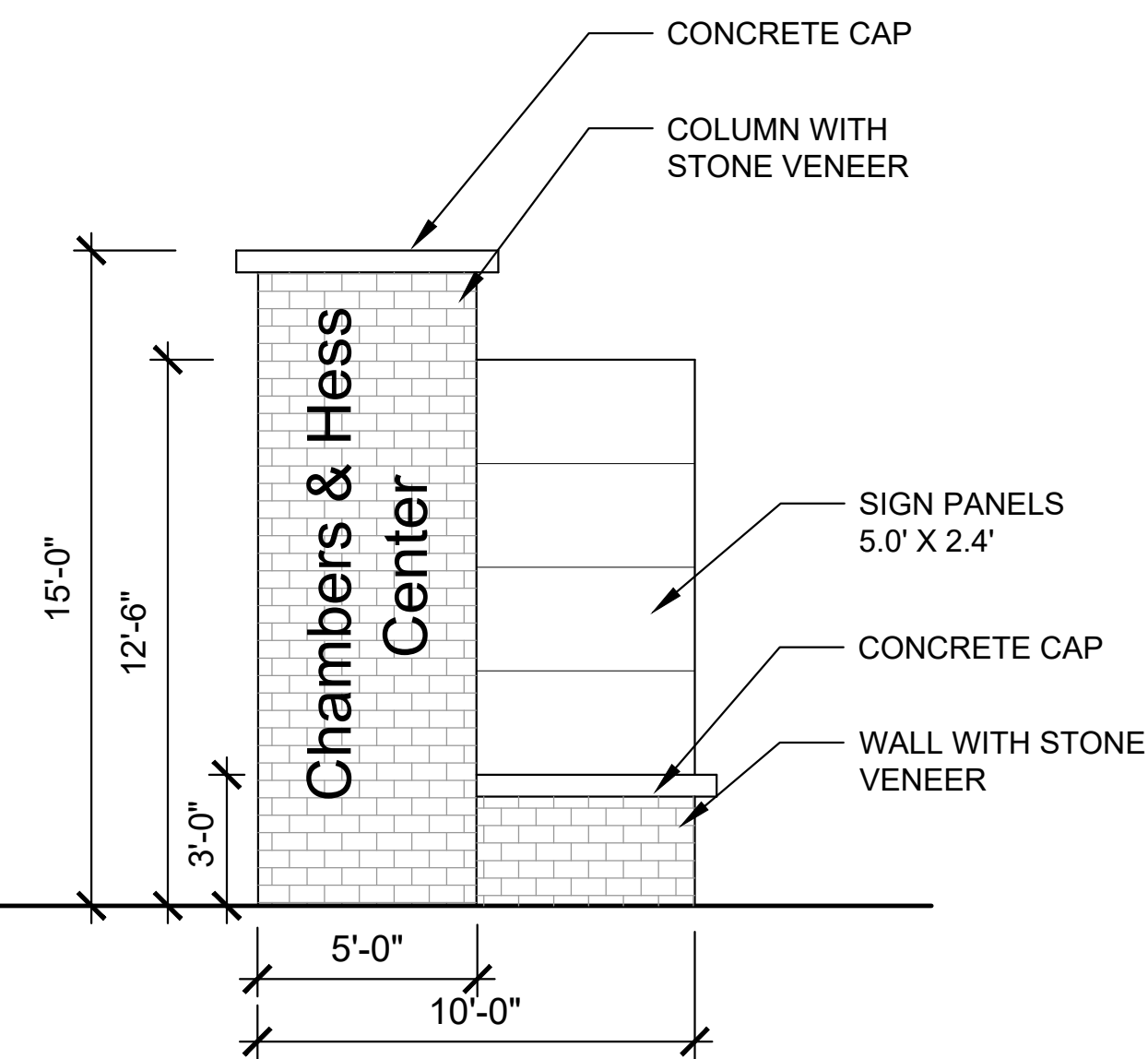


ELEVATION

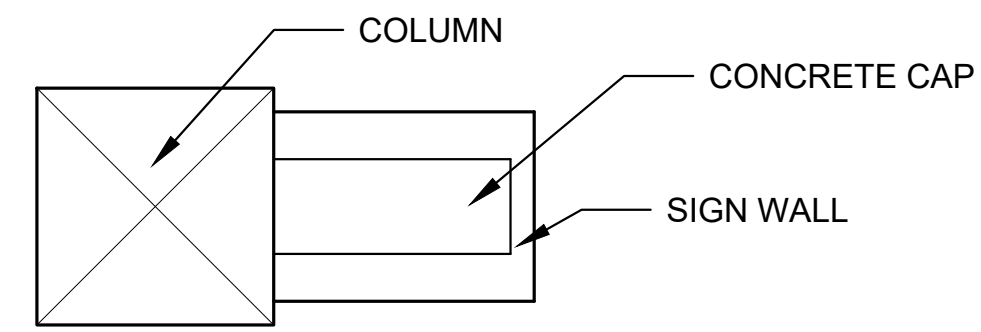


MAJOR MONUMENT SIGN

N.T.S.



ELEVATION



MINOR MONUMENT SIGN

N.T.S.

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LANDSCAPE
NOTES & DETAILS

PROJECT NO. D01173-A

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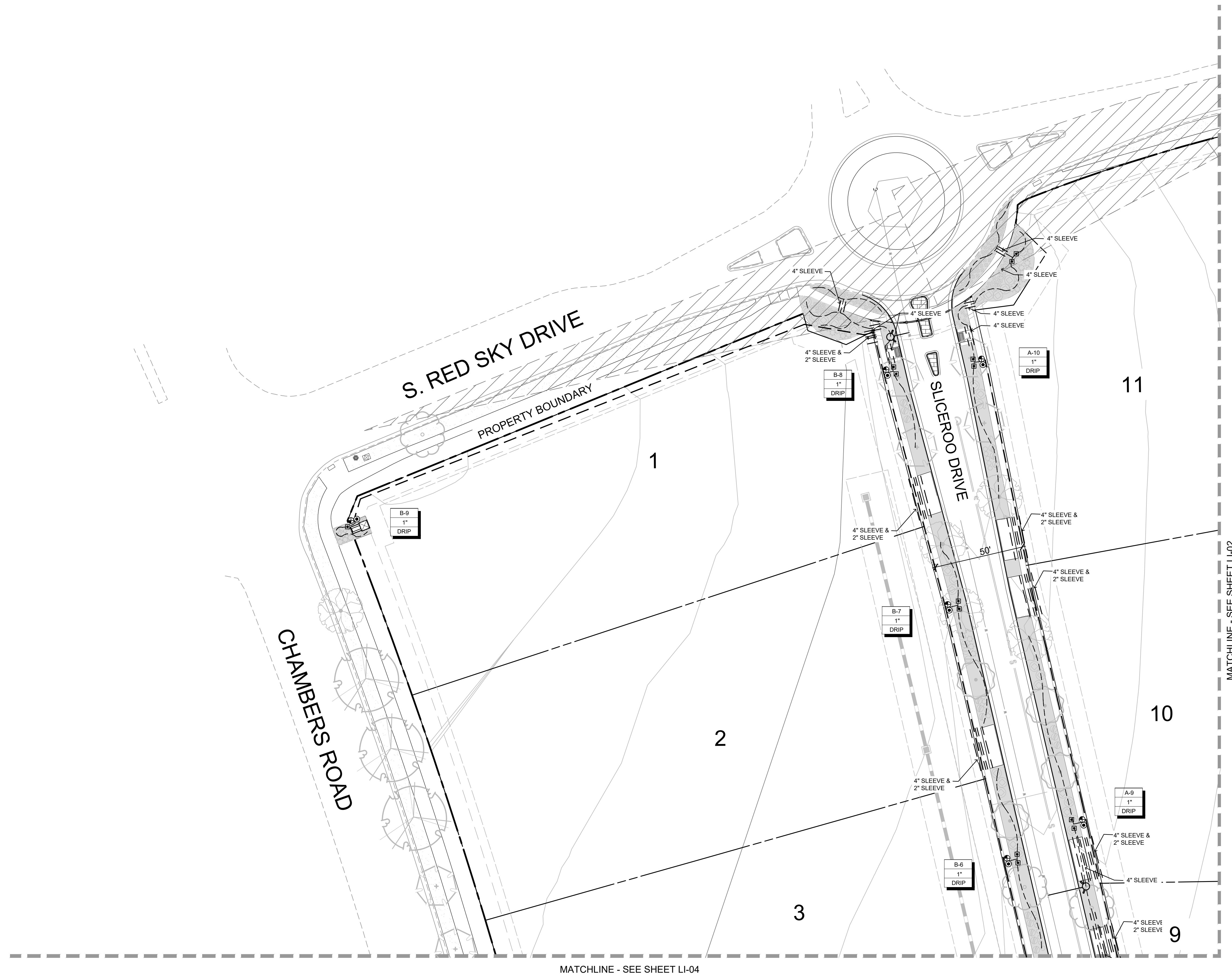
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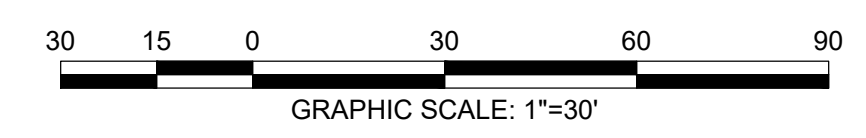
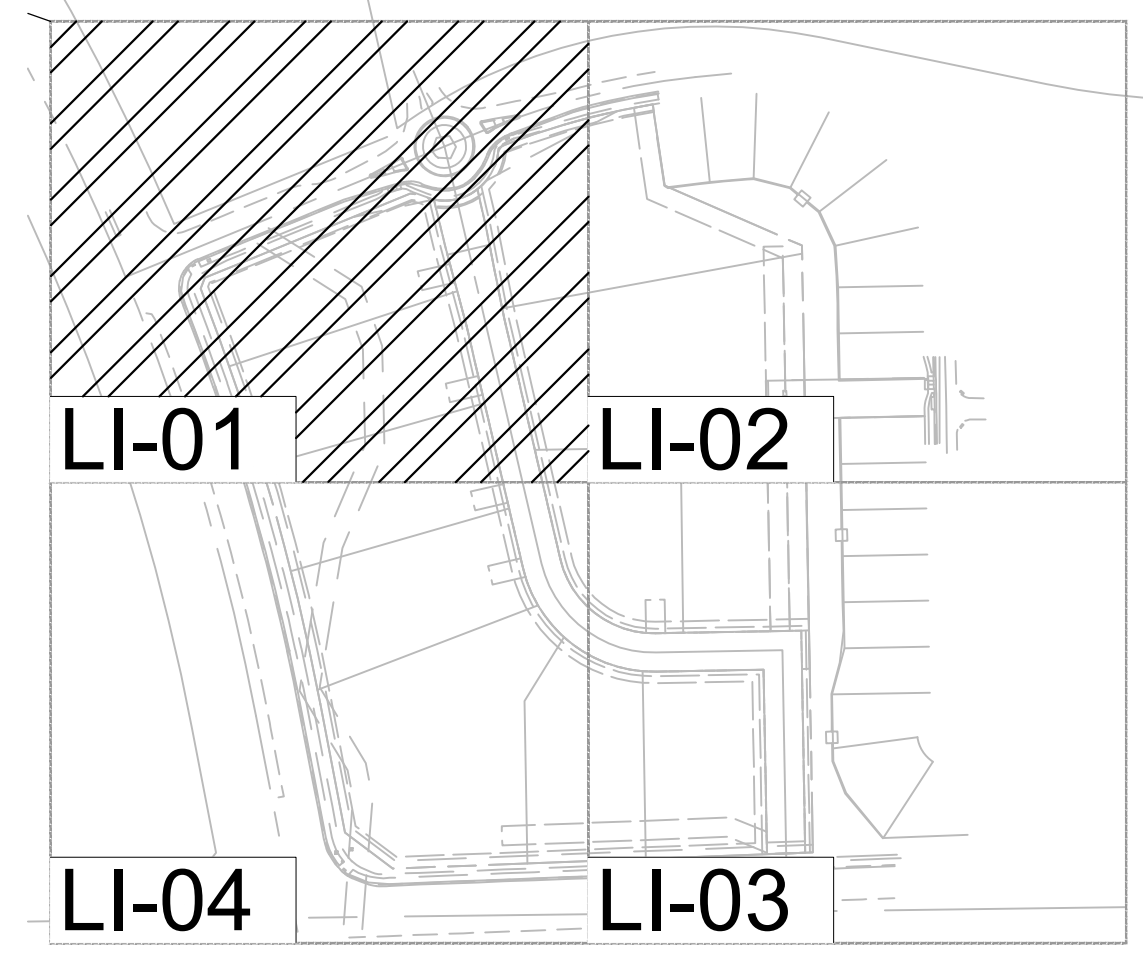
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A PORTION OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 29,
TOWNSHIP 6 SOUTH, RANGE 66 WEST, 6TH PRINCIPAL MERIDIAN,
TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO
13.80 ACRES, 11 COMMERCIAL LOTS



LEGEND

SYMBOL	DESCRIPTION
[A]	HUNTER I-CORE CONTROLLER 12 STATION, CONTROLLER 'A' - 8 STATIONS USED, CONTROLLER 'B' - 10 STATIONS USED
[M]	METER (SIZE NOTED ON PLANS)
[BF]	FEBCO 825YA BACKFLOW PREVENTION/ANTI-SYPHON DEVICE
[MV]	RAINBIRD 100-EFB MASTER VALVE (P.O.C. SIZE)
[FS]	WEATHERMATIC FLOW SENSOR (LINE SIZE)
[GV]	NIBCO ISOLATION GATE VALVE (LINE SIZE)
[C]	RAINBIRD 44-RC QUICK COUPLER VALVE
[D]	RAINBIRD XCZ-100-PRB-COM DRIP ZONE KIT (1")
---	MAINLINE PIPE: CLASS 200 PVC, SIZE AS NOTED
---	SLEEVE: CLASS 160 PVC, SIZE AS NOTED
~	NETAFIM DRIP TUBING WITH EMITTERS TO BASE OF PLANTS
A-1	INDICATES CONTROLLER AND VALVE NUMBER
1"	INDICATES VALVE SIZE
DRIP	INDICATES FLOW (GPM)



LANDSCAPE AND IRRIGATION PLANS
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IRRIGATION PLAN

PROJECT NO. D01173-A

DRAWING NO.

LI-01

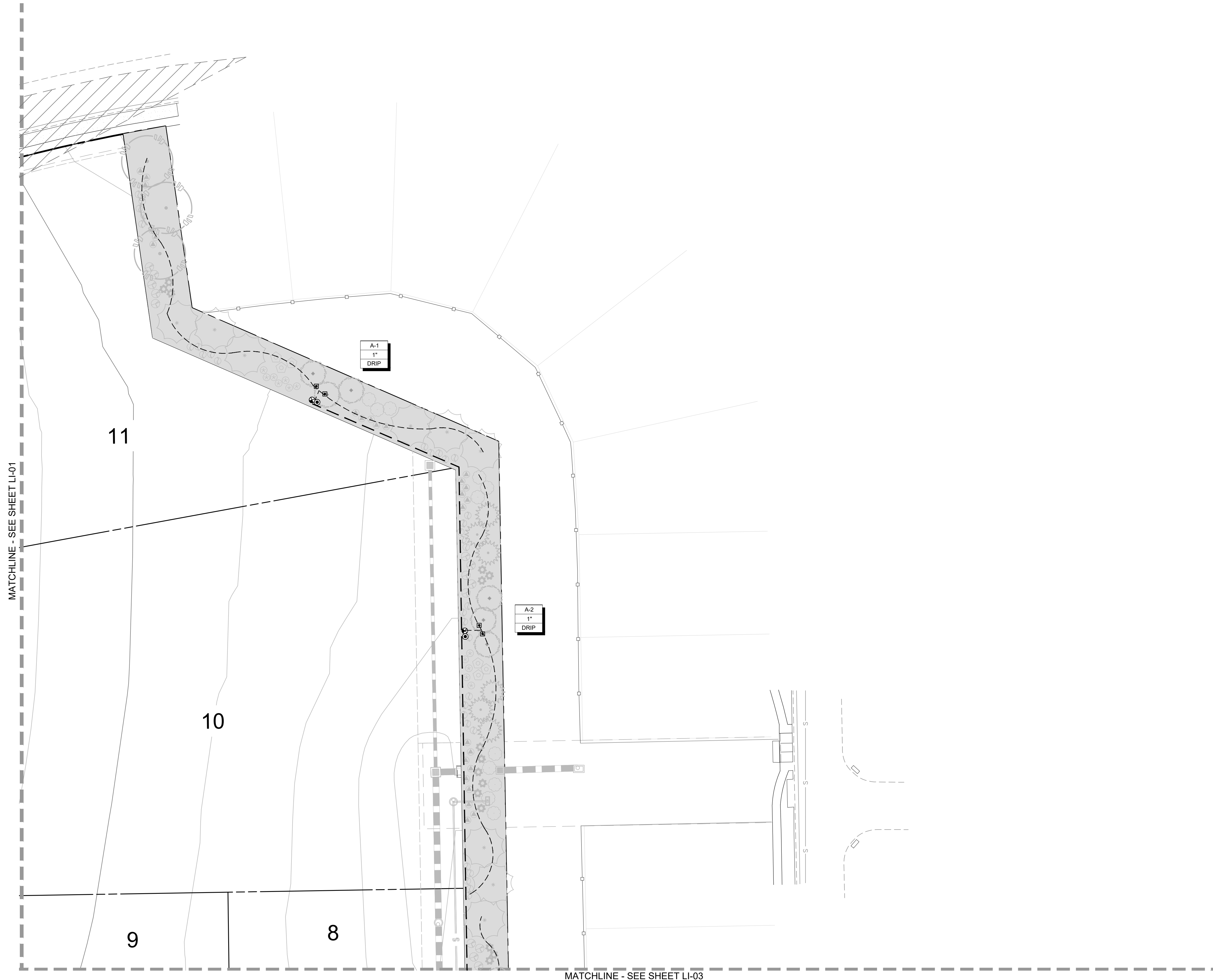
SHEET NO. 10 OF 16 SHEETS

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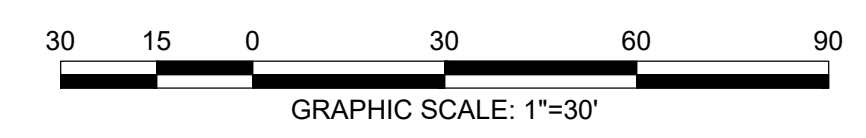
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13.80 ACRES, 11 COMMERCIAL LOTS



LEGEND

SYMBOL	DESCRIPTION
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	MAINLINE PIPE: CLASS 200 PVC, SIZE AS NOTED
	SLEEVE: CLASS 160 PVC, SIZE AS NOTED
	NETAFIM DRIP TUBING WITH EMITTERS TO BASE OF PLANTS
	INDICATES CONTROLLER AND VALVE NUMBER
	INDICATES VALVE SIZE
	INDICATES FLOW (GPM)



LANDSCAPE AND IRRIGATION PLANS
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IRRIGATION PLAN

PROJECT NO. D01173-A

DRAWING NO.

LI-02

SHEET NO. 11 OF 16 SHEETS

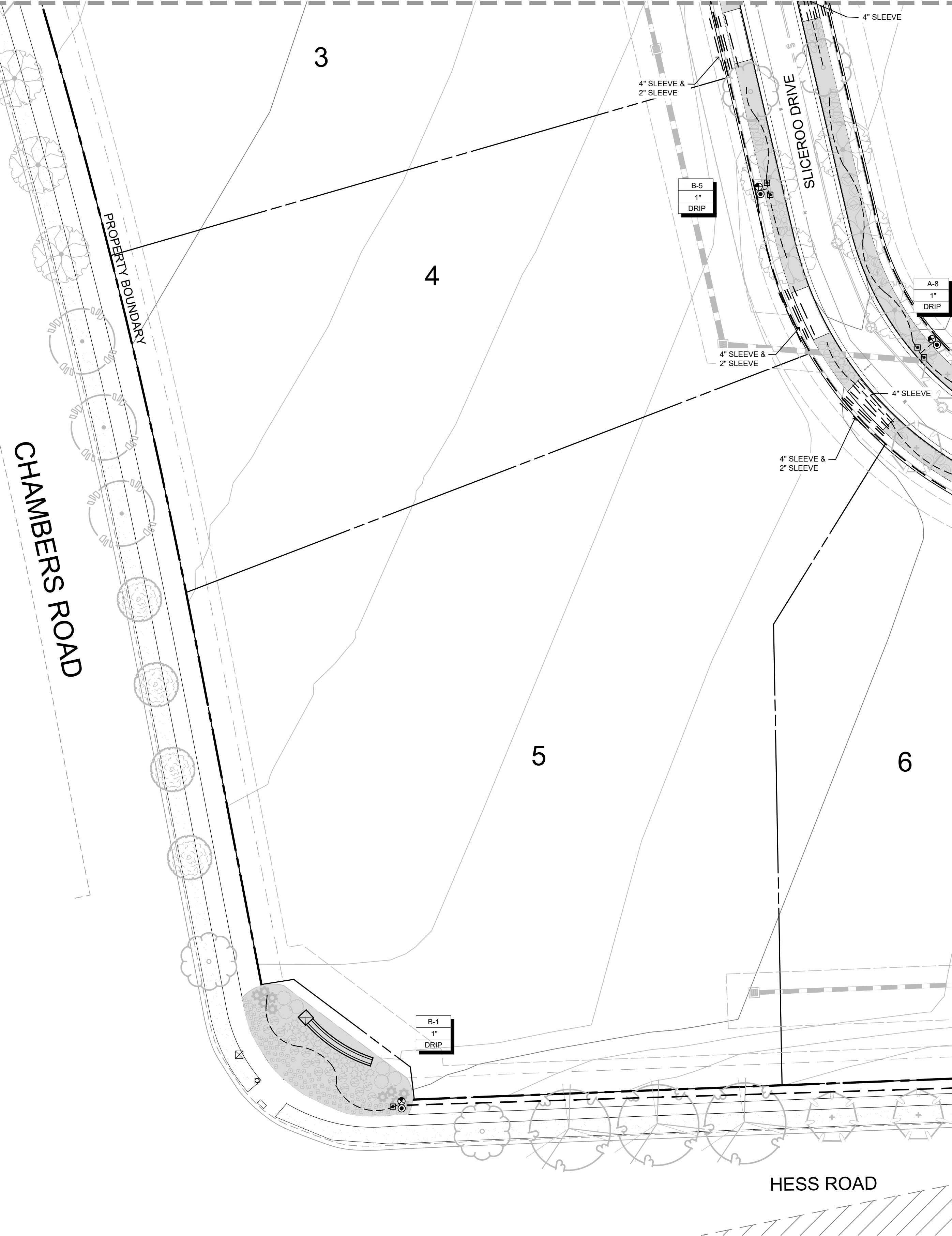
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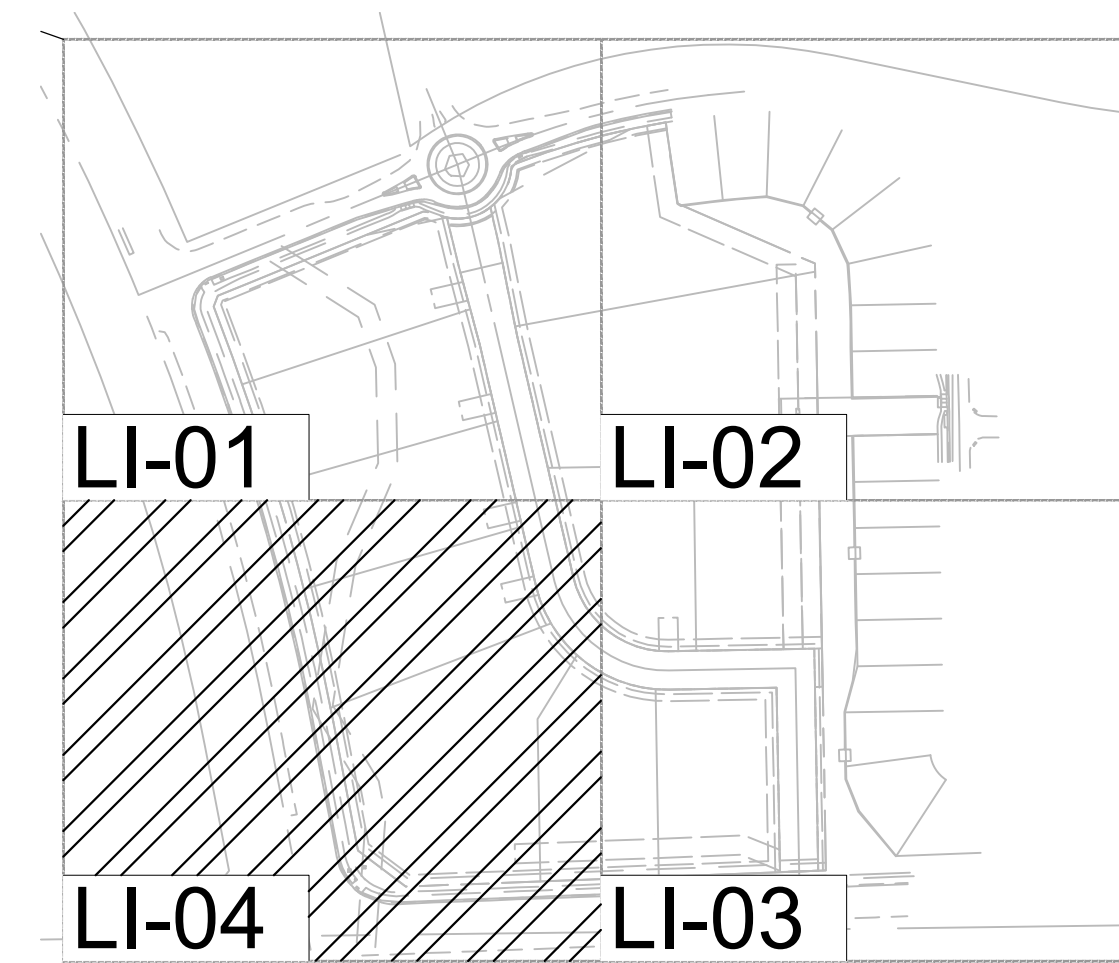
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TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO
13.80 ACRES, 11 COMMERCIAL LOTS

MATCHLINE - SEE SHEET LI-01



LEGEND

SYMBOL	DESCRIPTION
	HUNTER I-CORE CONTROLLER 12 STATION, CONTROLLER 'A' - 8 STATIONS USED CONTROLLER 'B' - 10 STATIONS USED
	METER (SIZE NOTED ON PLANS)
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	RAINBIRD 100-EFB MASTER VALVE (P.O.C. SIZE)
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	SLEEVE: CLASS 160 PVC, SIZE AS NOTED
	NETAFIM DRIP TUBING WITH EMITTERS TO BASE OF PLANTS
	INDICATES CONTROLLER AND VALVE NUMBER
	INDICATES VALVE SIZE
	INDICATES FLOW (GPM)



LANDSCAPE AND IRRIGATION PLANS
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IRRIGATION PLAN

PROJECT NO. D01173-A
1173

DRAWING NO.

LI-04

SHEET NO. 13 OF 16 SHEETS

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TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO
13.80 ACRES, 11 COMMERCIAL LOTS



Landscape/Irrigation Worksheet

Project Name: Douglas 234, Filing 6

Landscape/Irrigation Tap address (physical location of tap) Tap 'A'

Landscape Area	High Water TURF (6,000sf = 1 SFE)	Low Water Native Grass and Spray Shrubs & Perennials (10,000sf = 1 SFE)	Drip Irrigated area (20,000sf = 1 SFE)	Non-Irrigated area (calculated) Areas	Sub-Total of PWSD one SFE per 6000	SFE Requirement (Sub-Total Calculation divided by 6000 = requirement)
Area #1	_____sf x 1 = _____	_____sf x .6 = _____	$\frac{31,480}{9,444}$ sf x .3 = _____	_____sf x 0 = _____	9,444 sf	6,000
						1.57 SFE's

Worksheet Completed by: Kim Nelson
Company: RICK Engineering
Address: 5690 Webster St., Arvada, CO 80002
Phone #: 303-403-2430

Owner/Developer: Republic Investment Group
Attn: Grant Nelson
Billing Address: 5750 DTC Parkway, Greenwood Village, CO 80111
Phone #: 720-897-6091

ET Controller (with Rain Sensor)

Manufacturer	Hunter
Model number	PRO-HC

Tap Size Requirements:
0 - 1 SFE's requires a 3/4-inch tap
1.1 - 2.0 SFE's requires a 1-inch tap
2.1 - 4.0 SFE's requires a 1 1/2-inch tap
4.1 - 7.0 SFE's requires a 2-inch tap
7.1 - 16.0 SFE's requires a 3-inch tap



Landscape/Irrigation Worksheet

Project Name: Douglas 234, Filing 6

Landscape/Irrigation Tap address (physical location of tap) Tap 'B'

Landscape Area	High Water TURF (6,000sf = 1 SFE)	Low Water Native Grass and Spray Shrubs & Perennials (10,000sf = 1 SFE)	Drip Irrigated area (20,000sf = 1 SFE)	Non-Irrigated area (calculated) Areas	Sub-Total of PWSD one SFE per 6000	SFE Requirement (Sub-Total Calculation divided by 6000 = requirement)
Area #1	_____sf x 1 = _____	_____sf x .6 = _____	$\frac{11,398}{3,419.4}$ sf x .3 = _____	_____sf x 0 = _____	3,419.4 sf	6,000
						.5699 SFE's

Worksheet Completed by: Kim Nelson
Company: RICK Engineering
Address: 5690 Webster St., Arvada, CO 80002
Phone #: 303-403-2430

Owner/Developer: Republic Investment Group
Attn: Grant Nelson
Billing Address: 5750 DTC Parkway, Greenwood Village, CO 80111
Phone #: 720-897-6091

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7.1 - 16.0 SFE's requires a 3-inch tap

LANDSCAPE AND IRRIGATION PLANS
DOUGLAS COUNTY 234
FILING NO. 6
 DOUGLAS COUNTY, COLORADO

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IRRIGATION DETAILS

PROJECT NO. D01173-A

DRAWING NO.

LID-01

SHEET NO. 14 OF 16 SHEETS

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IRRIGATION NOTES

IRRIGATION - GENERAL

ALL WORK SHALL CONFORM TO TOWN OF PARKER STANDARDS AND SPECIFICATIONS AND WITH THE ACCEPTED PLANS. REFER TO THESE STANDARDS FOR ADDITIONAL INFORMATION AS NEEDED. A COPY OF THESE SPECIFICATIONS SHALL BE AVAILABLE ON THE WORK SITE AT ALL TIMES.

THIS SYSTEM DESIGN ASSUMES A STATIC PRESSURE OF 70 GPM AT THE POINT OF CONNECTION. CONTRACTOR RESPONSIBLE FOR VERIFYING PRESSURE AND FLOW. CONTRACTOR RESPONSIBLE FOR COORDINATION OF ELECTRICAL INSTALLATION OF CONTROLLER.

INSTALL CONTROLLER ON PEDESTAL AT APPROXIMATE LOCATION SHOWN ON PLANS. COORDINATE LOCATION WITH OWNER.

INSTALL ALL ELECTRICAL IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES.

DO NOT PROCEED WITH THE INSTALLATION OF THE IRRIGATION SYSTEM WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS OR GRADE DIFFERENCES EXIST THAT WILL AFFECT THE EFFICIENCY OF THE IRRIGATION SYSTEM. CONTACT OWNERS REPRESENTATIVE FOR CLARIFICATION. IF DISCREPANCIES IN NOTES, DETAILS OR SPECIFICATIONS EXIST CONTACT OWNER'S REPRESENTATIVE TO CLARIFY.

DRAWINGS ARE DIAGRAMMATIC. IRRIGATION SYSTEM IS TO BE INSTALLED IN LANDSCAPE AREAS.

CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL IRRIGATION SLEEVING. COORDINATE ALL SLEEVE INSTALLATION WITH OTHER TRADES.

ALL DRIP LINES TO BE INSTALLED BELOW GRADE AND BROUGHT TO THE BASE OF PLANTS.

THE CONTRACTOR SHALL CERTIFY THAT THE GRADE IS WITHIN PLUS OR MINUS ONE-TENTH (1/10TH) OF THE FINAL GRADING PLAN PRIOR TO COMMENCEMENT OF ANY LANDSCAPE OR IRRIGATION WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, FEES, AND LICENSES ASSOCIATED WITH THE WORK AS SHOWN ON THE PLANS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR UTILITY LOCATIONS PRIOR TO ANY EXCAVATION.

ANY REVISION TO THE IRRIGATION PLAN SHALL BE REVIEWED AND APPROVED BY THE TOWN OF PARKER PRIOR TO IMPLEMENTATION.

THE CONTRACTOR SHALL HAVE ACCEPTED SET OF PLANS AND MUST HAVE HELD A PRE-CONSTRUCTION MEETING WITH OWNERS REPRESENTATIVE PRIOR TO COMMENCEMENT OF ANY AND ALL WORK.

THE CONTRACTOR SHALL WARRANT THE WORKMANSHIP AND IRRIGATION SYSTEM FOR A PERIOD OF TWO YEARS.

DO NOT DISTURB PAVING, LIGHTING, LANDSCAPE OR IRRIGATION THAT EXISTS ADJACENT TO THE SITE UNLESS OTHERWISE NOTED ON PLANS.

THE CONTRACTOR SHALL IDENTIFY, VERIFY AND PROTECT CONTROL POINT. CONTRACTOR SHALL VERIFY LOCATION OF CONTROL POINT WEEKLY AND THE ORIGINAL CONDITION OF CONTROL POINT PIN SHALL BE MAINTAINED THROUGHOUT ENTIRE PROJECT. LOCATION AND G.P.S. COORDINATES OF THE CONTROL POINT SHALL BE IDENTIFIED ON ALL PLANS AND AS-BUILTS.

THE IRRIGATION SYSTEM SHALL BE INSTALLED AFTER SOIL PREPARATION AND PRIOR TO PLANT MATERIALS.

IRRIGATION - INSPECTIONS

CONTRACTOR SHALL BE RESPONSIBLE FOR THE SCHEDULING AND COORDINATION OF ALL REQUIRED INSPECTIONS WITH OWNERS REPRESENTATIVE AND THE TOWN OF PARKER. REFER TO TOWN OF PARKER STANDARDS AND SPECIFICATIONS FOR ALL REQUIRED INSPECTIONS.

THE IRRIGATION SYSTEM SHALL PASS A MAINLINE PRESSURE TEST AND COVERAGE TEST AND A WATERING SCHEDULE WITH RUN TIMES AND APPLICATION RATES SHALL BE SUBMITTED PRIOR TO SODDING, SEEDING, OR PLANTING.

CONTRACTOR SHALL SCHEDULE PRESSURE TEST AT COMPLETION OF MAINLINE. MAINLINE SHALL HOLD AT SEVENTY (70) P.S.I. FOR TWO (2) HOURS.

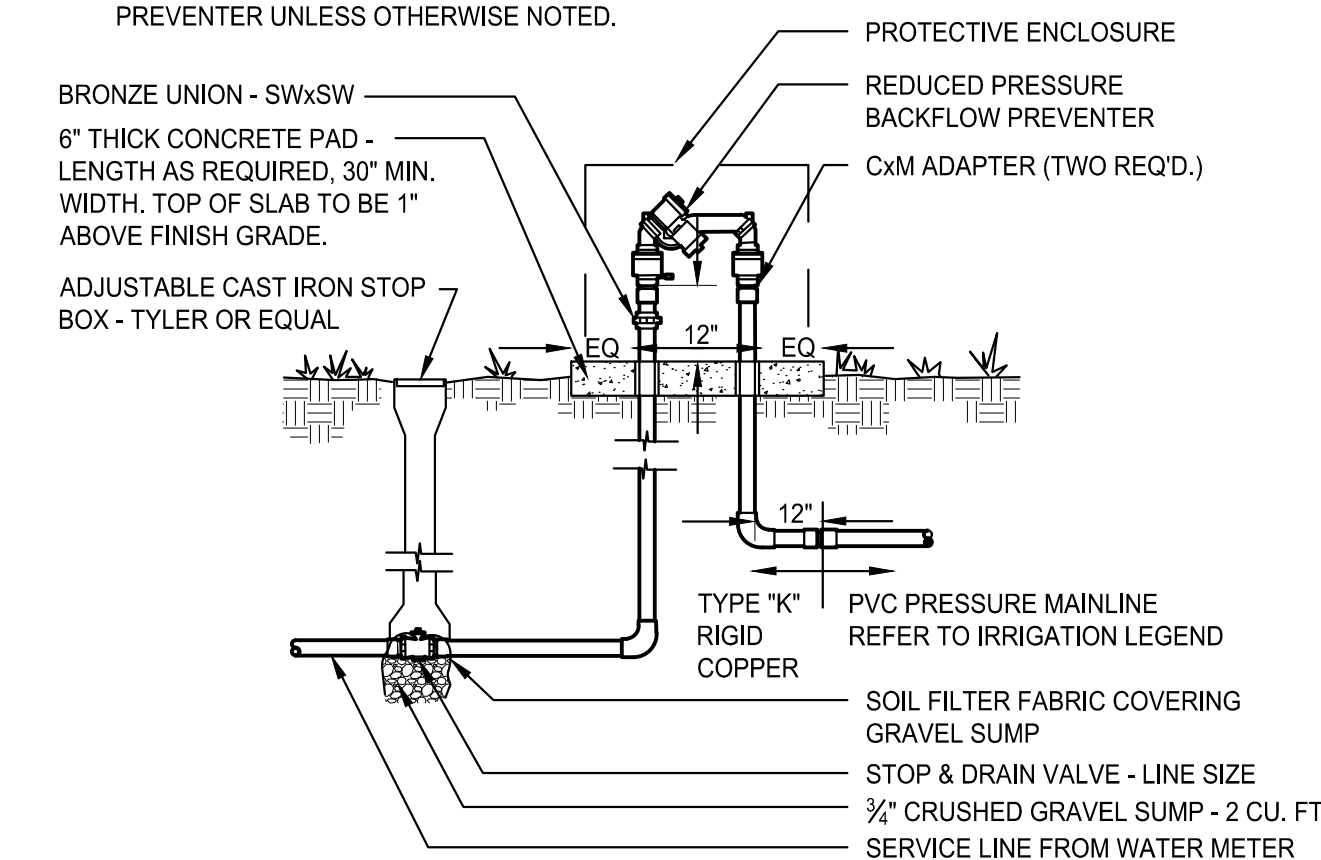
IRRIGATION - AS-BUILTS

APPROVED CONSTRUCTION DRAWINGS SHALL BE ON SITE AND UPDATED DAILY WITH AS-BUILT MARKUPS. CONTRACTOR SHALL MAKE AS-BUILTS AVAILABLE ON SITE TO TOWN STAFF AND OWNERS REPRESENTATIVE FOR REVIEW AND INSPECTION IMMEDIATELY UPON REQUEST.

RECORD ALL CHANGES WHICH ARE MADE FROM THE CONTRACT DRAWINGS. RECORD ALL REQUIRED INFORMATION ON AS-BUILT DRAWINGS. DO NOT USE THESE PRINTS FOR ANY OTHER PURPOSE.

NOTE:

- CONCRETE PAD PENETRATIONS TO BE 1" LARGER THAN TUBING DIAMETER.
- REFER TO ENCLOSURE DETAIL FOR CONCRETE PAD DIMENSIONS.
- DIAMETER OF FITTINGS, NIPPLE AND TUBING SHALL EQUAL DIAMETER OF BACKFLOW PREVENTER UNLESS OTHERWISE NOTED.



C BACKFLOW PREVENTER
SCALE: N.T.S.

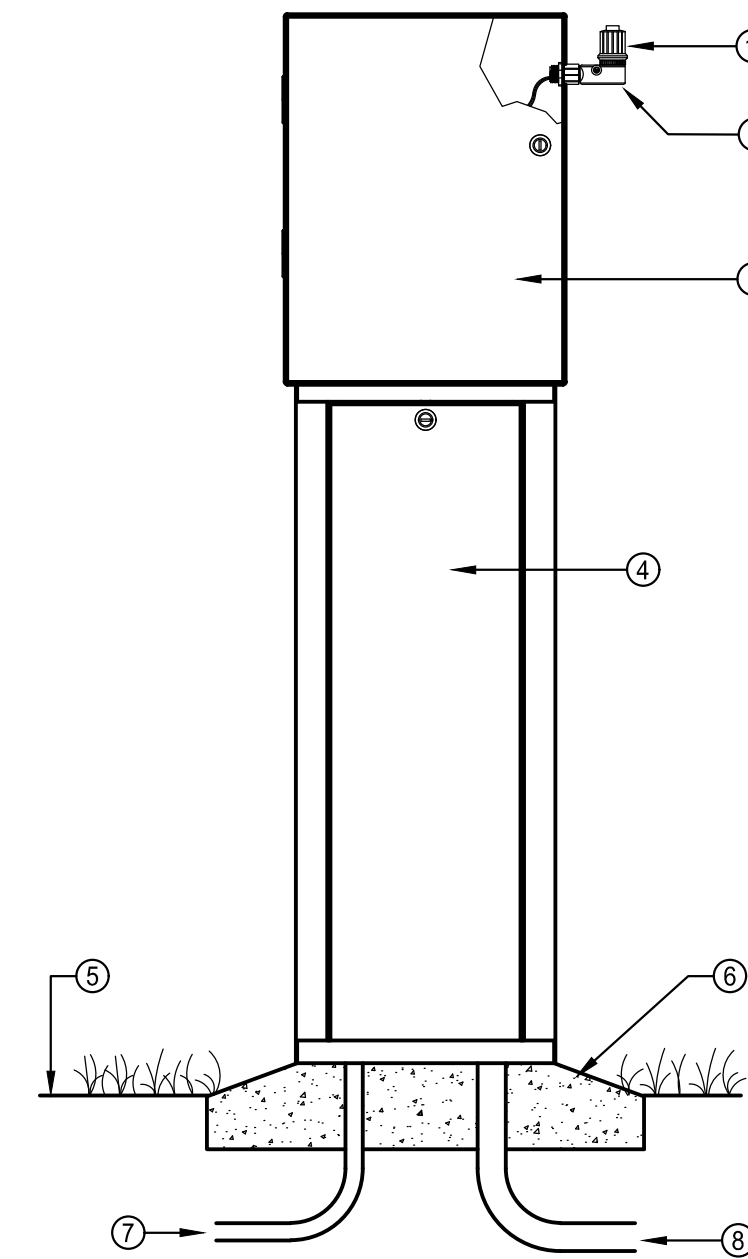
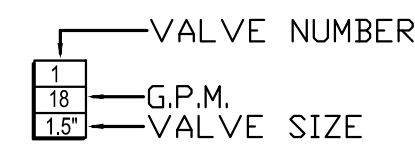
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13.80 ACRES, 11 COMMERCIAL LOTS

LATERAL PIPE SIZING CHART:

SCH 40 PIPE	GPM	PIPE SIZE	SLEEVE SIZE
3/4"	0-8	1 1/2"	4"
1"	9-12	1"	4"
1-1/4"	13-22	1-1/4"	4"
1-1/2"	23-30	1-1/2"	4"
2"	31-50	2"	4"
2-1/2"	51-70	2-1/2"	6"
		3"	6"

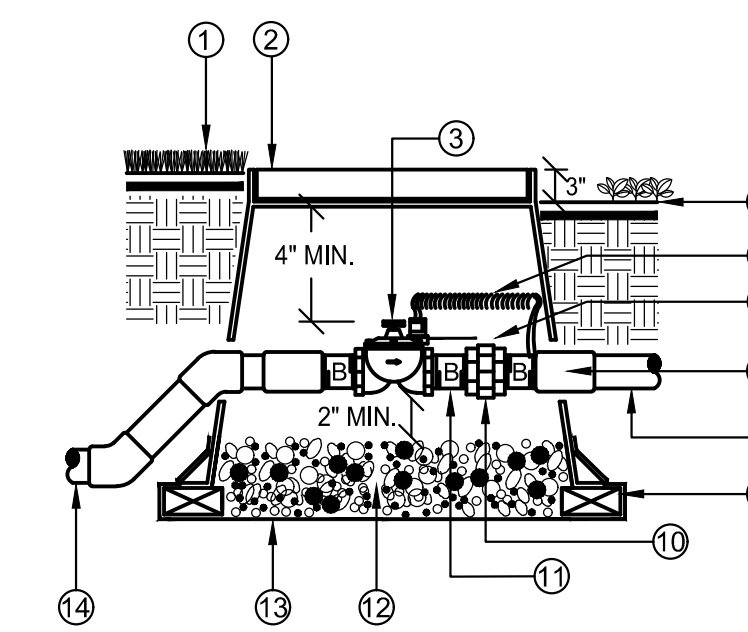
SLEEVING SCHEDULE



- 1 RAIN SENSOR
- 2 3/4-INCH SCH. 40 RISER EXTENSION (FIPT X MIPT) SECURED TO ENCLOSURE WITH SCH. 40 NUT CONTROLLER METAL CABINET
- 3 SCH. 40 NUT CONTROLLER METAL CABINET
- 4 PEDESTAL
- 5 FINISH GRADE
- 6 CONCRETE (SLOPE TO DRAIN)
- 7 3/4" CONDUIT FOR 120 VAC
- 8 1 1/4", 1 1/2" OR 2" CONDUIT FOR VALVE WIRES

NOTE: PROVIDE RECTANGULAR PULL BOX FOR LOW VOLTAGE CONTROL WIRES AT BASE OF CONTROLLER.

A CONTROLLER PEDESTAL MOUNT
SCALE: N.T.S.



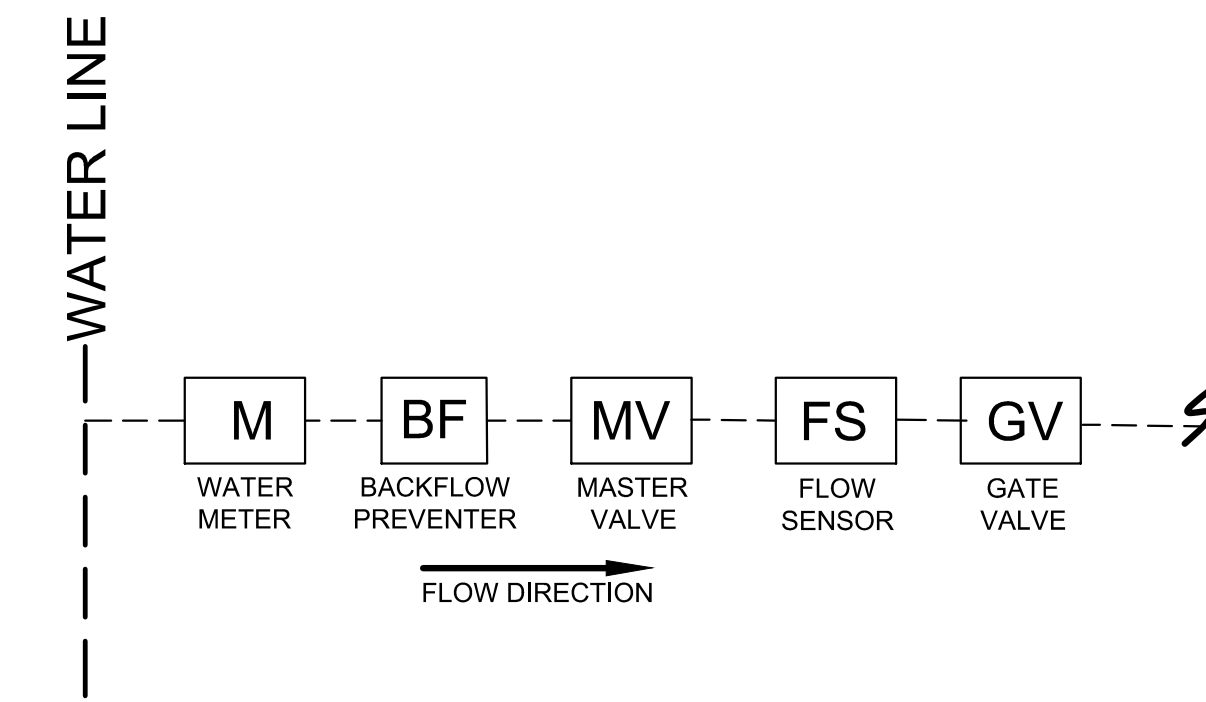
- 1 FINISH GRADE IN TURF AREAS
- 2 PLASTIC RECTANGULAR VALVE BOX WITH BOLT DOWN COVER, USE STAINLESS BOLT, NUT, AND WASHER. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE. HEAT BRAND "MV" ONTO LID.
- 3 MASTER CONTROL VALVE, SEE LEGEND FOR SPEC.
- 4 FINISH GRADE IN SHRUB AREAS
- 5 24" WIRE LOOP
- 6 VALVE ID TAGS
- 7 PVC SCH 40 FEMALE ADAPTER, (1 OF 2)
- 8 PVC MAINLINE TO FLOW SENSOR, PIPE PER SPECS.
- 9 (4) BRICK SUPPORTS
- 10 BRASS UNION
- 11 BRASS NIPPLE (TYP.)
- 12 3/4" ROCK, 2 CUBIC FT.
- 13 LANDSCAPE FABRIC
- 14 PVC MAINLINE PIPE FROM BACKFLOW PER SPECS.

NOTE: USE 45 DEGREE ELLS TO ACHIEVE MAINLINE DEPTH FROM SUPPLY SIDE OF THE MASTER VALVE ASSEMBLY. ALL THREADED CONNECTIONS TO HAVE TEFLON TAPE OR PASTE.

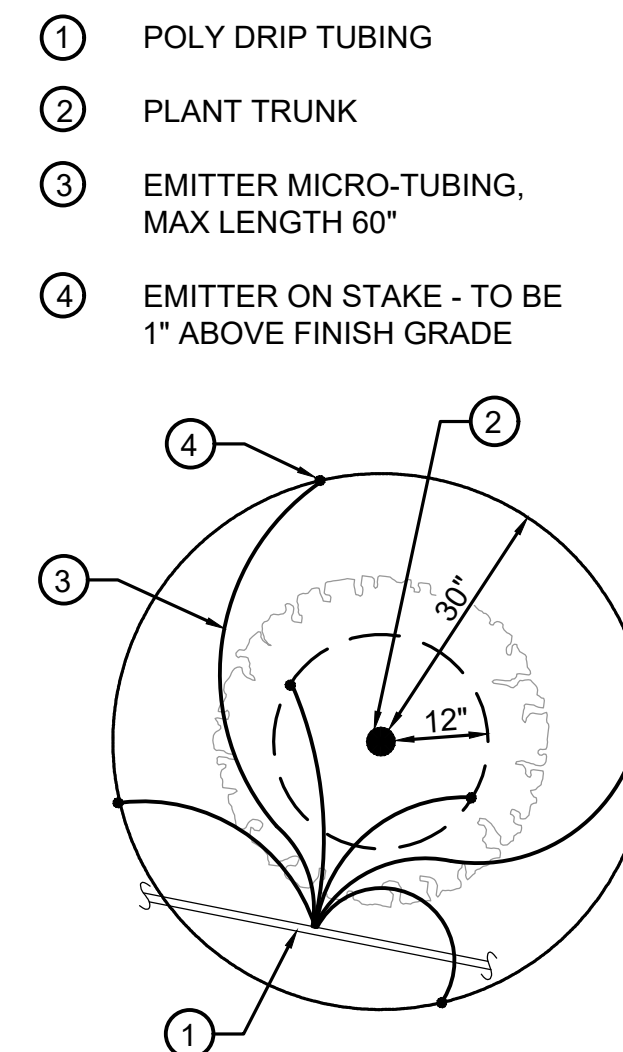
D MASTER VALVE
SCALE: N.T.S.

IRRIGATION MATERIAL LEGEND

SYMBOL	MANUFACT.	MODEL NO. / DESCRIPTION	
[Symbol]	HUNTER	PRO-HC, PHC-1200 IRRIGATION CONTROLLER WITH FLOW METER "A" 12 STATION CONTROLLER, 10 STATIONS USED "B" 12 STATION CONTROLLER, 9 STATIONS USED	A/LID-2
[Symbol]	P.O.C 'A' / P.O.C 'B'	METER, P.O.C. 'A' - 1", P.O.C. 'B' - 3/4" POTABLE TAP. STATIC WATER PRESSURE IS ASSUMED TO BE 70 PSI, CONTRACTOR TO FIELD VERIFY AND NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IF DIFFERENT	B/LID-2
[Symbol]	FEBCO	BACKFLOW PREVENTION ASSEMBLY 825-YA SPARKERS W/MODEL 650 WYE STRAINER SIZE OF P.O.C. ('A' - 1" & 'B' - 3/4"). IN STRONG BOX ENCLOSURE. ALL PIPING BETWEEN METER AND BACKFLOW DEVICE SHALL BE 'K' COPPER OR RED BRASS.	B/LID-2
[Symbol]	MV	BRASS MASTER VALVE, EFB-CP-PRS-D, SIZE OF P.O.C. NORMALLY CLOSED WITH PRESSURE REGULATING MODULE. MASTER VALVE SHALL BE INSTALLED IN A 'JUMBO' SIZED VALVE BOX WITH LOCKING COVER AND 'MCV' HEAT BRANDED ON COVER	B/LID-2
[Symbol]	FS	WEATHERMATIC FLOW SENSOR SLFSI-T20. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.	
[Symbol]	NIBCO	TRUE UNION BALL VALVE, LINE SIZE.	A/LID-3
[Symbol]	RAINBIRD	QUICK COUPLER VALVE 44RC WITH LOCKING RUBBER COVER, INSTALLED IN 10" ROUND VALVE BOX WITH 'QCV' HEAT BRANDED ON COVER INSTALL QCV ON A 1" STUB-OUT OFF MAINLINE.	GLID-3
[Symbol]	RAINBIRD	XCZ-150-PRB-COM, 1", 1-1/2" REMOTE CONTROL DRIP VALVE KIT. INSTALL WITHIN VALVE MANIFOLD (SIZE MANIFOLD TO MATCH LARGEST LATERAL LINE IN MANIFOLD) WITH NIBCO BALL VALVE (SIZE BALL VALVE TO MATCH LARGEST RCV IN MANIFOLD) VALVE BOX WITH LOCKING COVER AND 'RCV' HEAT BRANDED ON COVER.	B/LID-3
[Symbol]	AS APPROVED	MAINLINES, BELOW 4" SHALL BE SCHEDULE 40 PVC SOLVENT WELD WITH SCH 40 SOLVENT WELD FITTINGS, 4" ABOVE SHALL BE CLASS 200 SOLVENT WELD WITH THE SAME THICKNESS SOLVENT WELD FITTINGS. ALL ELBOW TEES 3" AND LARGER TO HAVE CONCRETE THRUST BLOCKS.	J/LID-3
[Symbol]	AS APPROVED	SLEEVING, SCH. 40 PVC PIPE, MINIMUM 4" DIAMETER FOR PIPING, LARGER WHERE APPROPRIATE. A SEPARATE 2" SLEEVE, FOR WIRE UNDER ALL PAVED SURFACES.	F&J/LID-3
[Symbol]	RAINBIRD	SHRUBS - POINT SOURCE DRIP ZONE, XERIBUG DRIP EMITTERS ON A STAKE CONNECTED TO POLY DRIP TUBING PER DETAIL. DLID-2	
[Symbol]	AS APPROVED	WIRE SPLICES ALLOWED ONLY WHERE RUNS EXCEED 2500'. PULL BOXES FOR WIRE SPLICES, PULL BOXES SHALL BE 12" RECTANGULAR WITH LOCKING LID.	LLID-3
[Symbol]	NETAFIM	DRIP END FLUSH, NETAFIM TL050MFV-1, INSTALL ON PVC EXHAUST MANIFOLD WITHIN VALVE BOX AT LOWEST ELEVATION AND ALL END RUN(S) IN SYSTEM. INSTALL MIN. TYP AS REQUIRED.	



B POINT OF CONNECTION (P.O.C.)
SCALE: N.T.S.



E DRIP EMITTER
SCALE: N.T.S.

PLANT SIZE	EMITTER FLOW RATE	EMITTER QTY. AT MULCHED BED LOCATIONS	EMITTER QTY. AT NATIVE SEED LOCATIONS
1-2 GALLON MATERIAL	0.5 GPH	ONE EACH	ONE EACH
5 GALLON MATERIAL	0.5 GPH	TWO EACH	TWO EACH
1-1/2" CALIPER TREE	1 GPH	THREE EACH	FOUR EACH
2" CALIPER TREE	1 GPH	FOUR EACH	SIX EACH
2-1/2" CALIPER TREE	1 GPH	SIX EACH	EIGHT EACH
3" CALIPER TREE	1 GPH	EIGHT EACH	TEN EACH
3-1/2" CALIPER TREE	1 GPH	NINE EACH	ELEVEN EACH
4" CALIPER TREE	1 GPH	TEN EACH	TWELVE EACH
6 FT. CONIFEROUS TREE	1 GPH	FOUR EACH	SIX EACH
8 FT. CONIFEROUS TREE	1 GPH	SIX EACH	NINE EACH
10 FT. CONIFEROUS TREE	1 GPH	EIGHT EACH	TWELVE EACH
12 FT. CONIFEROUS TREE	1 GPH	TEN EACH	FOURTEEN EACH

LANDSCAPE AND IRRIGATION PLANS
DOUGLAS COUNTY 234
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REVISIONS:

NO.	DESCRIPTION	DATE:
1		

SCALE: NTS
DATE: 05/06/20
DRAWN BY: KN
CHECKED BY: KN
JOB NO: D01173-A

IRRIGATION DETAILS

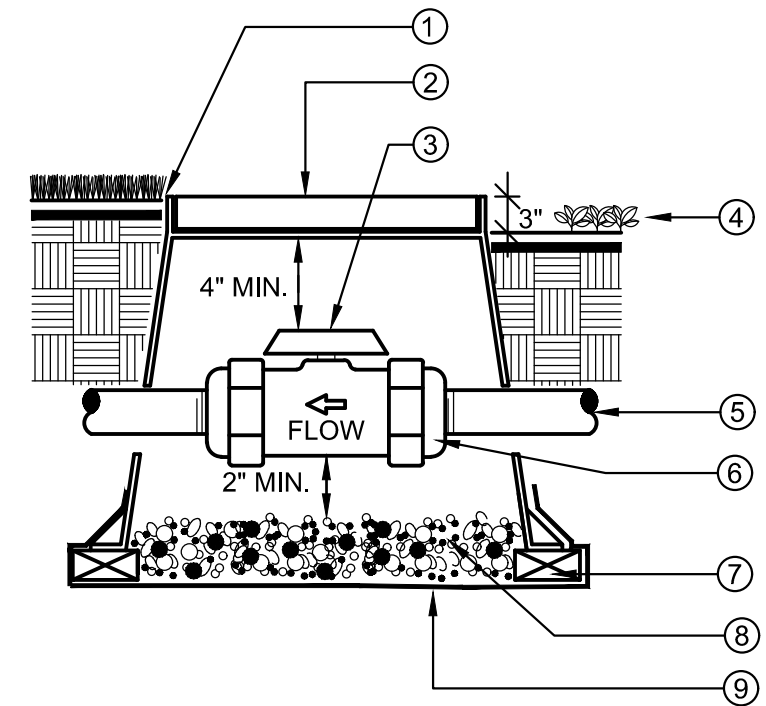
PROJECT NO. D01173-A

DRAWING NO.

LID-02

SHEET NO. 15 OF 16 SHEETS

PRELIMINARY
NOT FOR CONSTRUCTION



- 1 FINISH GRADE IN TURF AREAS
- 2 PLASTIC RECTANGULAR VALVE BOX WITH BOLT DOWN COVER. USE STAINLESS BOLT, NUT, AND WASHER. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE. HEAT BRAND "BV" ONTO LID.
- 3 PVC BALL VALVE. SEE LEGEND FOR SPECIFICATION
- 4 FINISH GRADE IN SHRUB AREAS
- 5 MAINLINE, DEPTH AS PER SPECS.
- 6 DUAL UNION CONNECTIONS AS PART OF BALL VALVE. THREADED IF SPECIFIED IN LEGEND
- 7 (4) BRICK SUPPORTS
- 8 3/4" ROCK, 2 CUBIC FT.
- 9 LANDSCAPE FABRIC

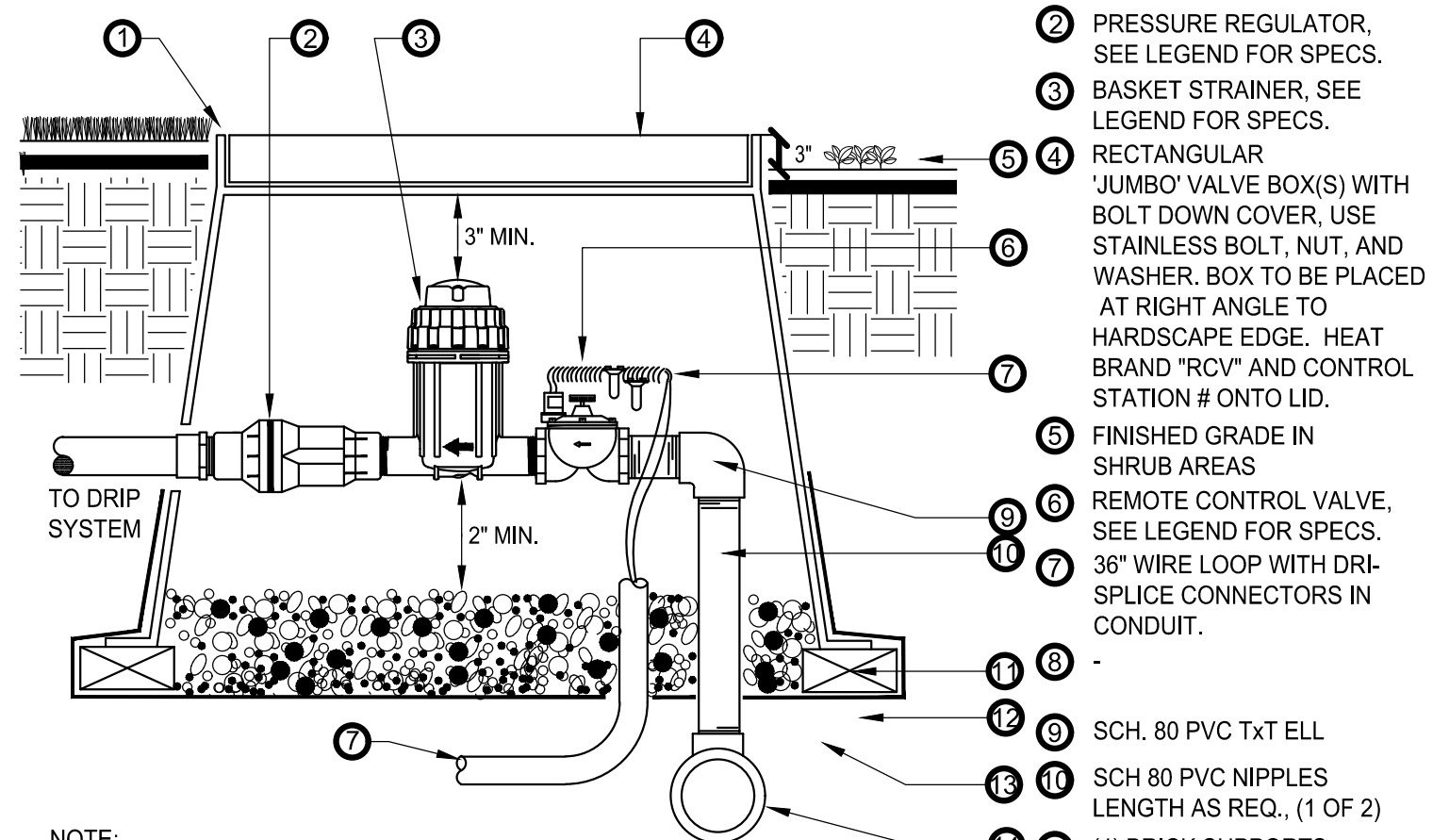
NOTE:
BOX TO BE INSTALLED TO ALLOW FOR PROPER OPERATION OF BALL VALVE HANDLE. INSTALL AT RIGHT ANGLE TO HARDSCAPE EDGE.

INSTALL VALVE BOX EXTENSIONS AS REQUIRED TO ACHIEVE PROPER VALVE INSTALLATION AT MAINLINE DEPTH.

ALL THREADED CONNECTIONS SHALL HAVE TEFLON TAPE OR PASTE.

A BALL VALVE, TRU-UNION

SCALE: N.T.S.

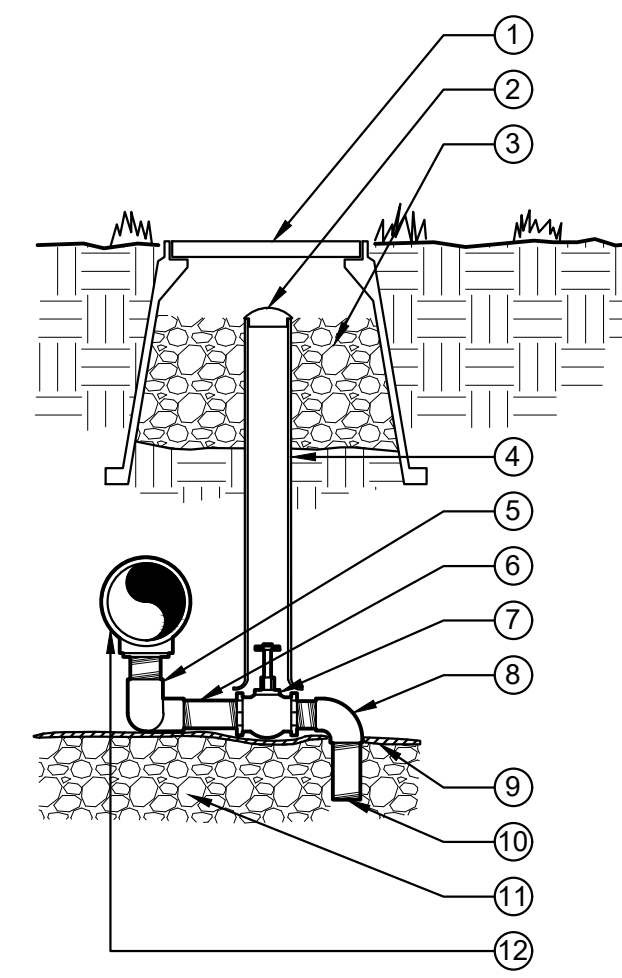


- 1 FINISH GRADE IN TURF AREAS
- 2 PRESSURE REGULATOR. SEE LEGEND FOR SPECS.
- 3 BASKET STRAINER. SEE LEGEND FOR SPECS.
- 4 RECTANGULAR "JUMBO" VALVE BOX(S) WITH BOLT DOWN COVER. USE STAINLESS BOLT, NUT, AND WASHER. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE. HEAT BRAND "RCV" AND CONTROL STATION # ONTO LID.
- 5 FINISHED GRADE IN SHRUB AREAS
- 6 REMOTE CONTROL VALVE. SEE LEGEND FOR SPECS.
- 7 3/8" WIRE LOOP WITH DRIP-SPLICE CONNECTORS IN CONDUIT.
- 8 (4) BRICK SUPPORTS
- 9 SCH. 80 PVC T x T ELL
- 10 SCH 80 PVC NIPPLES LENGTH AS REQ., (1 OF 2)
- 11 (4) BRICK SUPPORTS
- 12 3/4" ROCK, 2 CUBIC FEET
- 13 LANDSCAPE FABRIC w/ 1/4" GALV. MESH TYP.
- 14 IRRIGATION MAINLINE OR MANIFOLD SUPPLY

NOTE:
INSTALL VALVE BOX EXTENSIONS AS REQUIRED TO ACHIEVE PROPER VALVE INSTALLATION AT MAIN LINE DEPTH. ALL THREADED CONNECTIONS TO HAVE TEFLON TAPE OR PASTE.

B DRIP CONTROL ZONE KIT

SCALE: N.T.S.

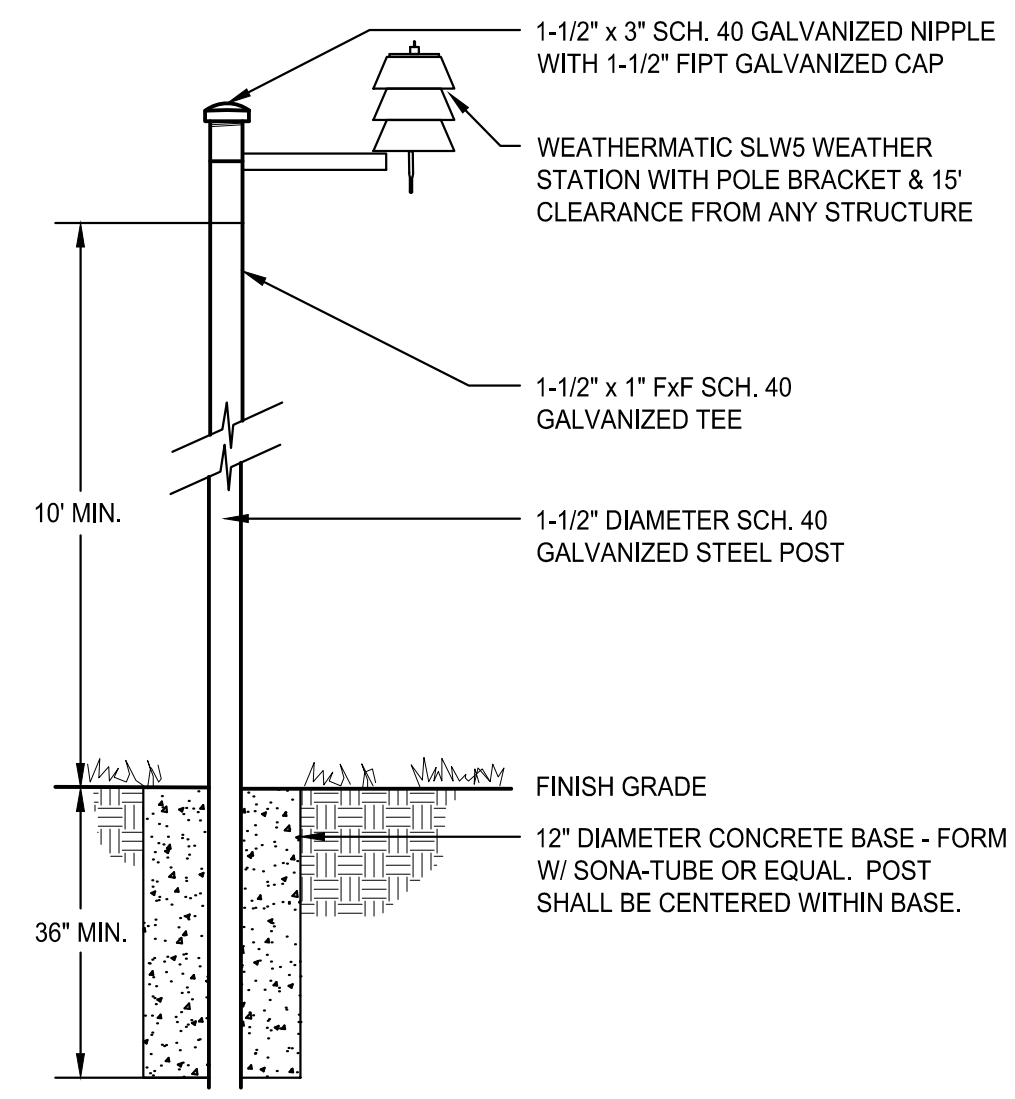


- 1 10" ROUND VALVE BOX - BRAND THE LETTER "D" ON LID. SEE SPECS.
- 2 2" VALVE MARKER
- 3 3/4" CRUSHED GRAVEL SUMP 1 CU. FT.
- 4 2" CL 160 PVC ACCESS SLEEVE - LENGTH AS REQUIRED.
- 5 3/4" F x F SCH. 80 PVC 90 ELL (2)
- 6 3/4" x CL PVC NIPPLE SCH. 80 (2)
- 7 3/4" x 6" SCH. 80 GALV. STEEL NIPPLE
- 8 3/4" BRASS GLOBE VALVE
- 9 3/4" M x F SCH. 40 PVC 90 ELL
- 10 SOIL BLANKET COVERING SUMP
- 11 3/4" x 4" PVC NIPPLE SCH. 80
- 12 3/4" CRUSHED GRAVEL SUMP. SEE SPECIFICATIONS FOR SUMP SIZE.

NOTE: APPLY TEFLON TAPE TO ALL MALE THREADED PVC FITTINGS AND ALL NIPPLES.

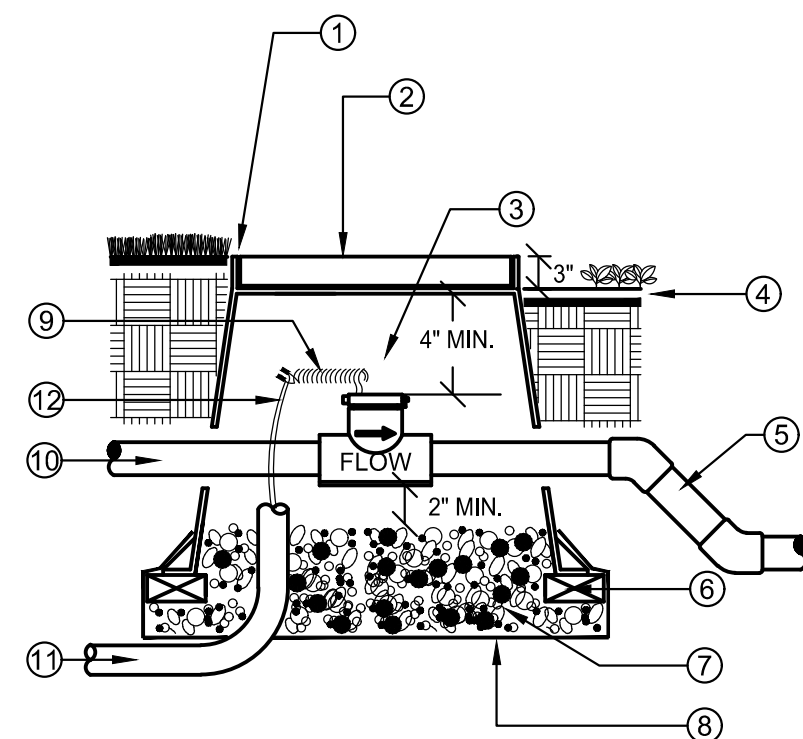
C MANUAL DRAIN VALVE

SCALE: N.T.S.



D WEATHER STATION

SCALE: N.T.S.

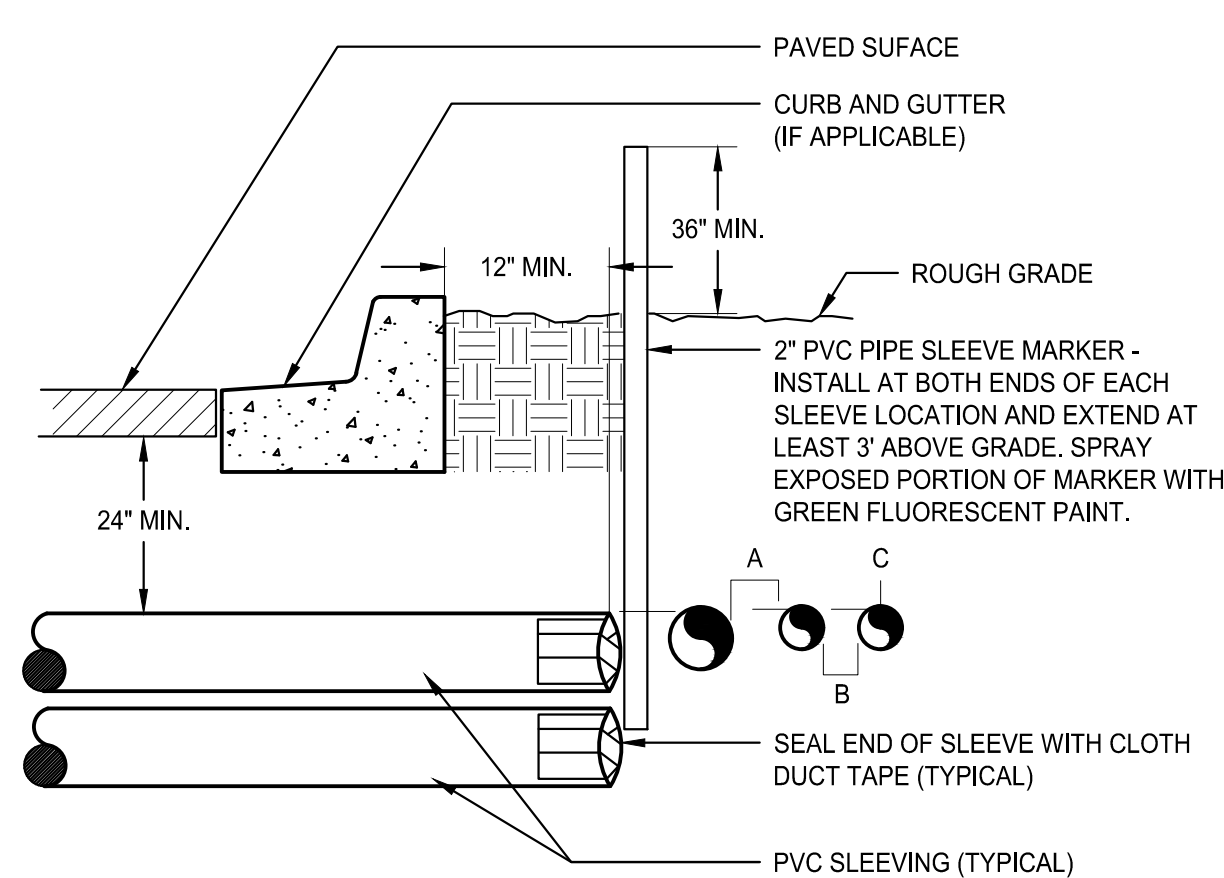


- 1 FLUSH W/ FINISH GRADE IN TURF AREAS TYP.
- 2 CONCRETE RECTANGULAR VALVE BOX WITH CAST IRON LOCKING LID. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE. PAINT "FS" ONTO LID.
- 3 FLOW SENSOR. SEE LEGEND FOR SPECIFICATION
- 4 FINISH GRADE IN SHRUB MULCH AREAS
- 5 PVC MAINLINE TO SYSTEM. PIPE PER SPECIFICATION
- 6 (4) BRICK SUPPORTS
- 7 3/4" ROCK, 2 CUBIC FEET
- 8 LANDSCAPE FABRIC
- 9 24" WIRE LOOP
- 10 PVC MAINLINE FROM MASTER VALVE
- 11 1" ELECTRICAL CONDUIT TO CONTROLLER
- 12 SHIELDED CABLE

NOTE:
NO FITTINGS 10x PIPE O.D. UPSTREAM OF SENSOR, NO FITTINGS 5x PIPE O.D. DOWNSTREAM OF SENSOR. INSTALL FLOW SENSOR PER THE MANUFACTURER'S RECOMMENDATIONS. ROUTE WIRES THROUGH CONDUIT TO IRRIGATION CONTROLLER. USE 45 DEGREE ELLS TO ACHIEVE MAINLINE DEPTH ON THE DOWNSTREAM SIDE OF THE FLOW SENSOR.

E FLOW SENSOR

SCALE: N.T.S.

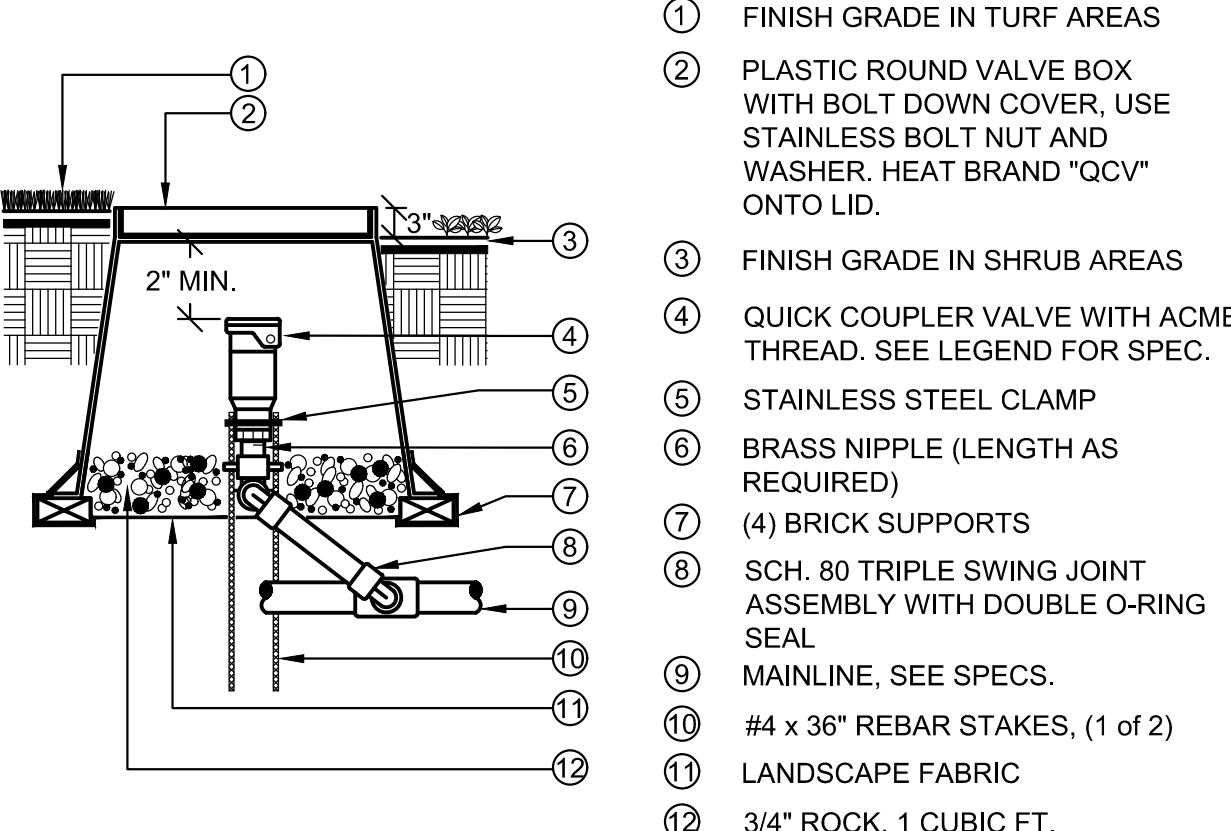


- 1 PAVED SURFACE
- 2 CURB AND GUTTER (IF APPLICABLE)
- 3 ROUGH GRADE
- 4 2" PVC PIPE SLEEVE MARKER - INSTALL AT BOTH ENDS OF EACH SLEEVE LOCATION AND EXTEND AT LEAST 3' ABOVE GRADE. SPRAY EXPOSED PORTION OF MARKER WITH GREEN FLUORESCENT PAINT.
- 5 SEAL END OF SLEEVE WITH CLOTH DUCT TAPE (TYPICAL)

NOTE:
• ALL SLEEVE MATERIAL PER IRRIGATION SCHEDULE. SIZE AS NOTED ON PLAN.
• INSTALL SLEEVES IN SIDE-BY-SIDE CONFIGURATION WHERE MULTIPLE SLEEVES ARE TO BE INSTALLED. SPACE SLEEVES 4" TO 6" APART. DO NOT STACK SLEEVES VERTICALLY.
• CONTRACTOR TO COORDINATE WITH FLATWORK INSTALLER TO BRAND A "V" IN SIDEWALK OR CURB AT BOTH ENDS OF SLEEVE CROSSING.

F IRRIGATION SLEEVING

SCALE: N.T.S.

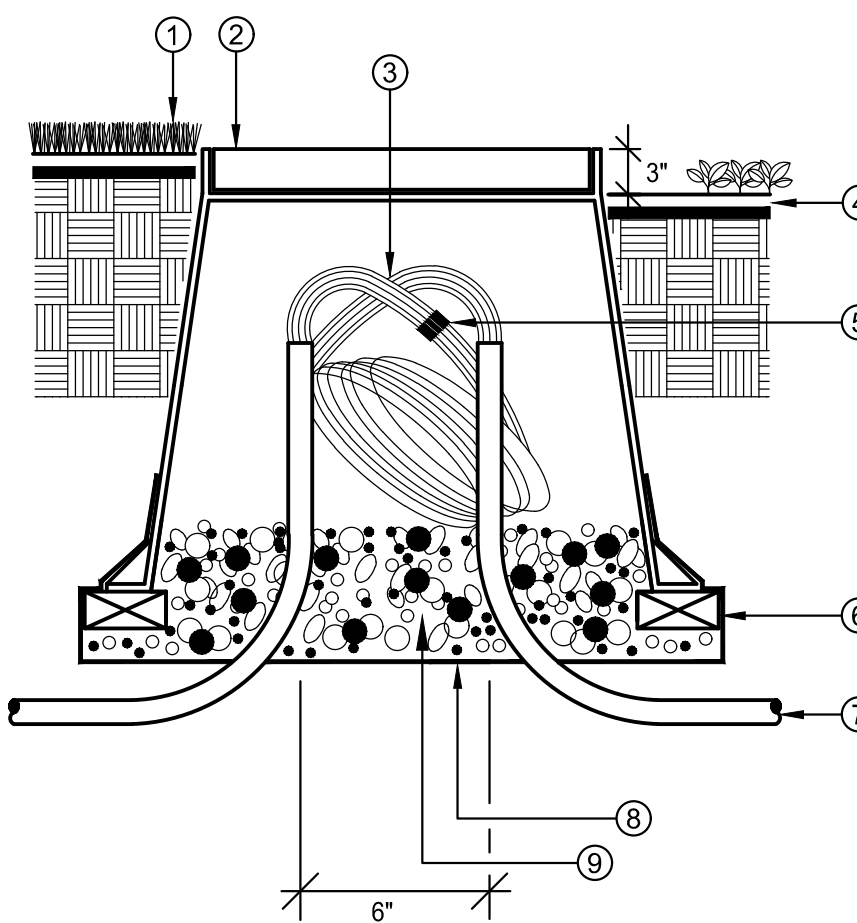


- 1 FINISH GRADE IN TURF AREAS
- 2 PLASTIC ROUND VALVE BOX WITH BOLT DOWN COVER. USE STAINLESS BOLT NUT AND WASHER. HEAT BRAND "QCV" ONTO LID.
- 3 FINISH GRADE IN SHRUB AREAS
- 4 QUICK COUPLER VALVE WITH ACME THREAD. SEE LEGEND FOR SPEC.
- 5 STAINLESS STEEL CLAMP
- 6 BRASS NIPPLE (LENGTH AS REQUIRED)
- 7 (4) BRICK SUPPORTS
- 8 SCH. 80 TRIPLE SWING JOINT ASSEMBLY WITH DOUBLE O-RING SEAL
- 9 MAINLINE, SEE SPECS.
- 10 #4 x 36" REBAR STAKES, (1 of 2)
- 11 LANDSCAPE FABRIC
- 12 3/4" ROCK, 1 CUBIC FT.

NOTE:
ALL THREADED CONNECTIONS TO HAVE TEFLON TAPE OR PASTE. QUICK COUPLER VALVE KEY MUST SWIVEL FREELY WHEN INSERTED INTO LUG TRACK.

G QUICK COUPLER VALVE

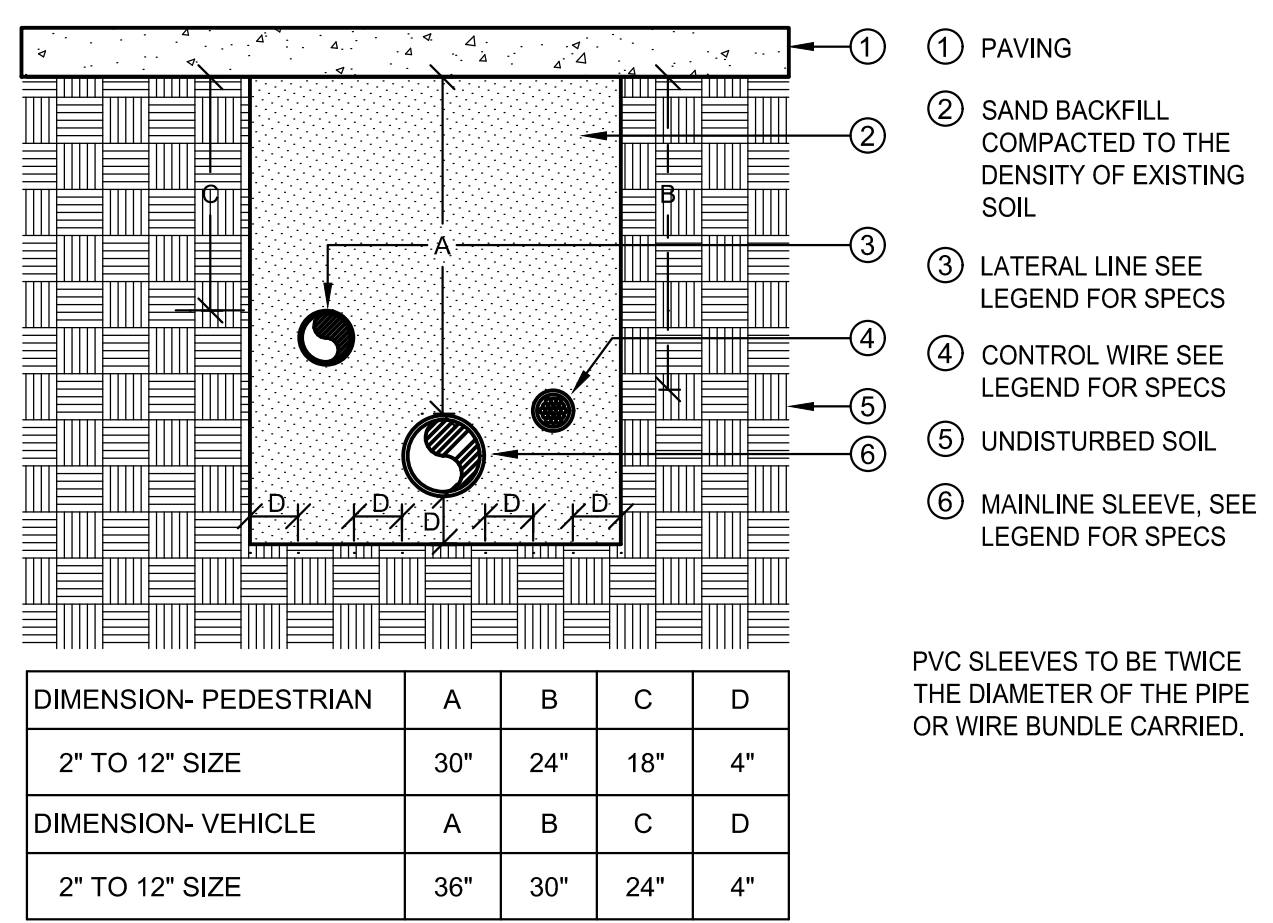
SCALE: N.T.S.



- 1 FINISHED GRADE IN TURF AREAS
- 2 10" ROUND PLASTIC VALVE BOX WITH BOLT DOWN COVER. USE STAINLESS BOLT, NUT, AND WASHER. HEAT BRAND "PB" ONTO LID.
- 3 24" WIRE EXPANSION LOOP (TYP).
- 4 FINISH GRADE IN SHRUB AREAS
- 5 WATER PROOF WIRE CONNECTORS
- 6 (4) BRICK SUPPORTS
- 7 PVC ELECTRICAL SWEEP (IF INSTALLED IN CONDUIT)
- 8 LANDSCAPE FABRIC
- 9 3/4" ROCK, 1 CUBIC FT.

I ROUND PULL BOX

SCALE: N.T.S.

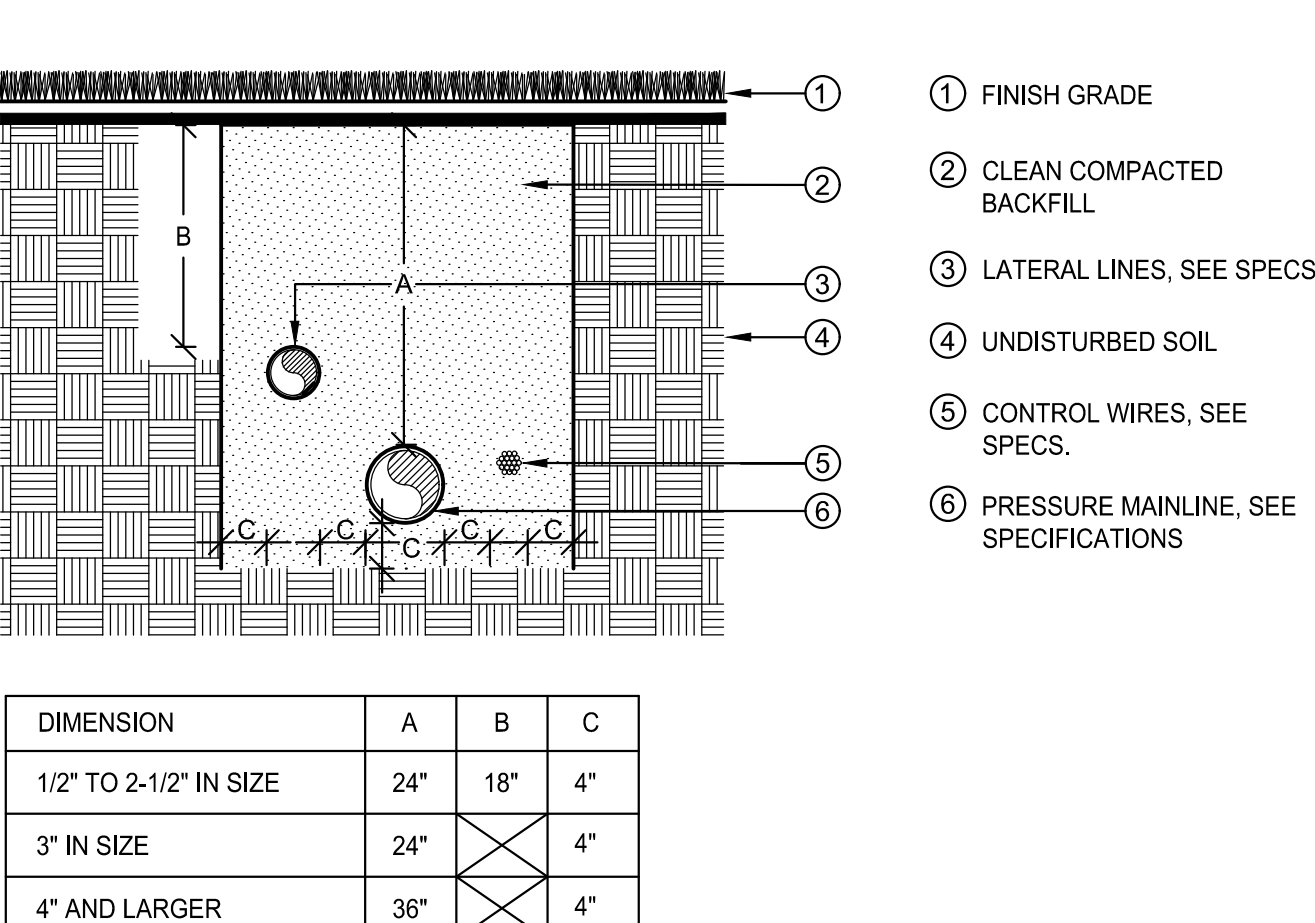


- 1 PAVING
- 2 SAND BACKFILL COMPACTED TO THE DENSITY OF EXISTING SOIL
- 3 LATERAL LINE SEE LEGEND FOR SPECS
- 4 CONTROL WIRE SEE LEGEND FOR SPECS
- 5 UNDISTURBED SOIL
- 6 MAINLINE SLEEVE. SEE LEGEND FOR SPECS

PVC SLEEVES TO BE TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE CARRIED.

J SLEEVE INSTALLATION

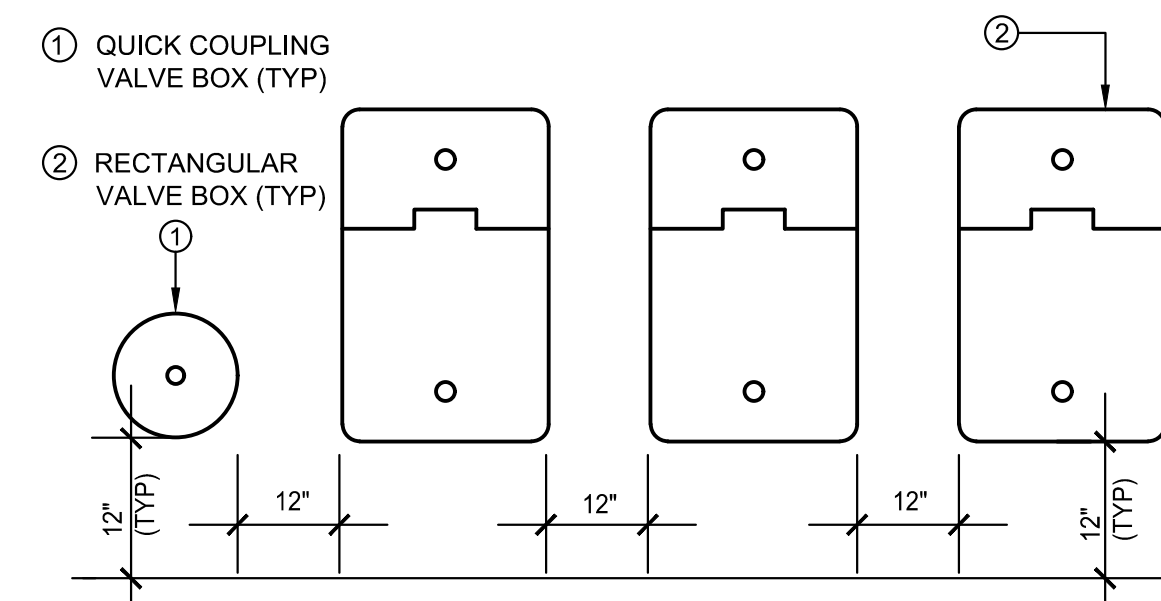
SCALE: N.T.S.



- 1 FINISH GRADE
- 2 CLEAN COMPACTED BACKFILL
- 3 LATERAL LINES. SEE SPECS.
- 4 UNDISTURBED SOIL
- 5 CONTROL WIRES. SEE SPECS.
- 6 PRESSURE MAINLINE. SEE SPECIFICATIONS

K PIPE INSTALLATION

SCALE: N.T.S.

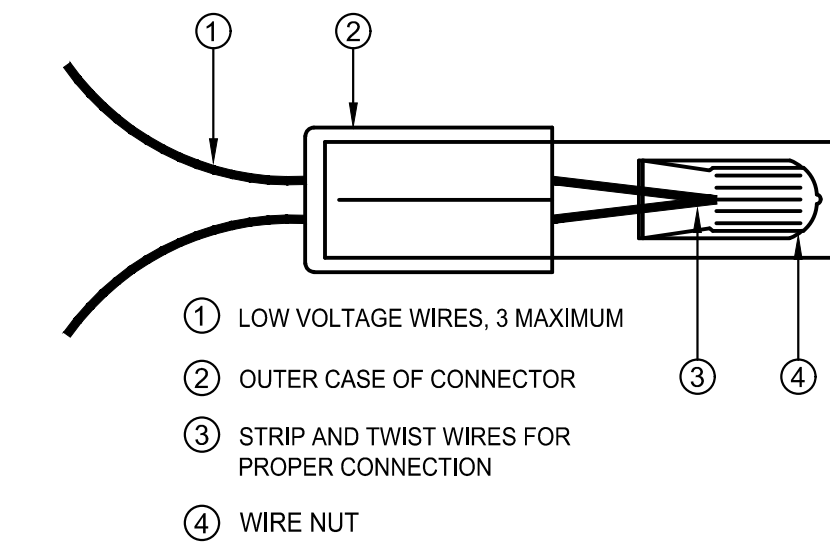


- 1 QUICK COUPLING VALVE BOX (TYP)
- 2 RECTANGULAR VALVE BOX (TYP)

NOTES:
1. VALVE BOXES SHALL BE LABELED BY HOT IRON BRANDING OR ALUMINUM ASPHALT BASED WATERPROOF PAINT.
2. CONTROL VALVES SHALL BE INSTALLED TO ALLOW ORDERLY ARRANGEMENT OF VALVE BOXES.
3. LOCATE VALVE ASSEMBLIES IN SHRUB OR GROUND COVER AREAS WHEN POSSIBLE.
4. LOCATION OF VALVE ASSEMBLIES SHALL BE STAKED FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
5. CENTER VALVE BOXES OVER VALVE ASSEMBLY TO FACILITATE ACCESS AND MAINTENANCE.
6. SET VALVE BOXES AT EQUAL ELEVATIONS WITH TOPS AT FINISH GRADE IN TURF AREAS OR 3" ABOVE FINISH GRADE IN SHRUB/GROUND COVER AREAS.
7. VALVE BOXES SHALL BE SET PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE OF AREA.
8. DO NOT DEFORM OR COLLAPSE VALVE BOX BY EXCESSIVE SOIL COMPACTING AROUND BOX.
9. ON RECYCLED SYSTEMS ALL VALVE BOXES AND QUICK COUPLING VALVES SHALL BE CLEARLY COLORED PURPLE.

H VALVE BOX LAYOUT

SCALE: N.T.S.



- 1 LOW VOLTAGE WIRES, 3 MAXIMUM
- 2 OUTER CASE OF CONNECTOR
- 3 STRIP AND TWIST WIRES FOR PROPER CONNECTION
- 4 WIRE NUT

NOTE:
INSPECT, TEST, AND VERIFY PROPER SYSTEM CONNECTION BEFORE INSERTION INTO SEALANT CARTRIDGE. DO NOT REUSE SEALANT CARTRIDGES.

L WIRE CONNECTIONS

SCALE: N.T.S.

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SCALE: NTS
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IRRIGATION DETAILS

PROJECT NO. D01173-A

DRAWING NO.

LID-03

SHEET NO. 16 OF 16 SHEETS

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