



DECEMBER 2020

JOB NO. XX-XX-PW

FUNDED IN PART BY THE
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DEPARTMENT OF ECOLOGY

CITY OFFICIALS

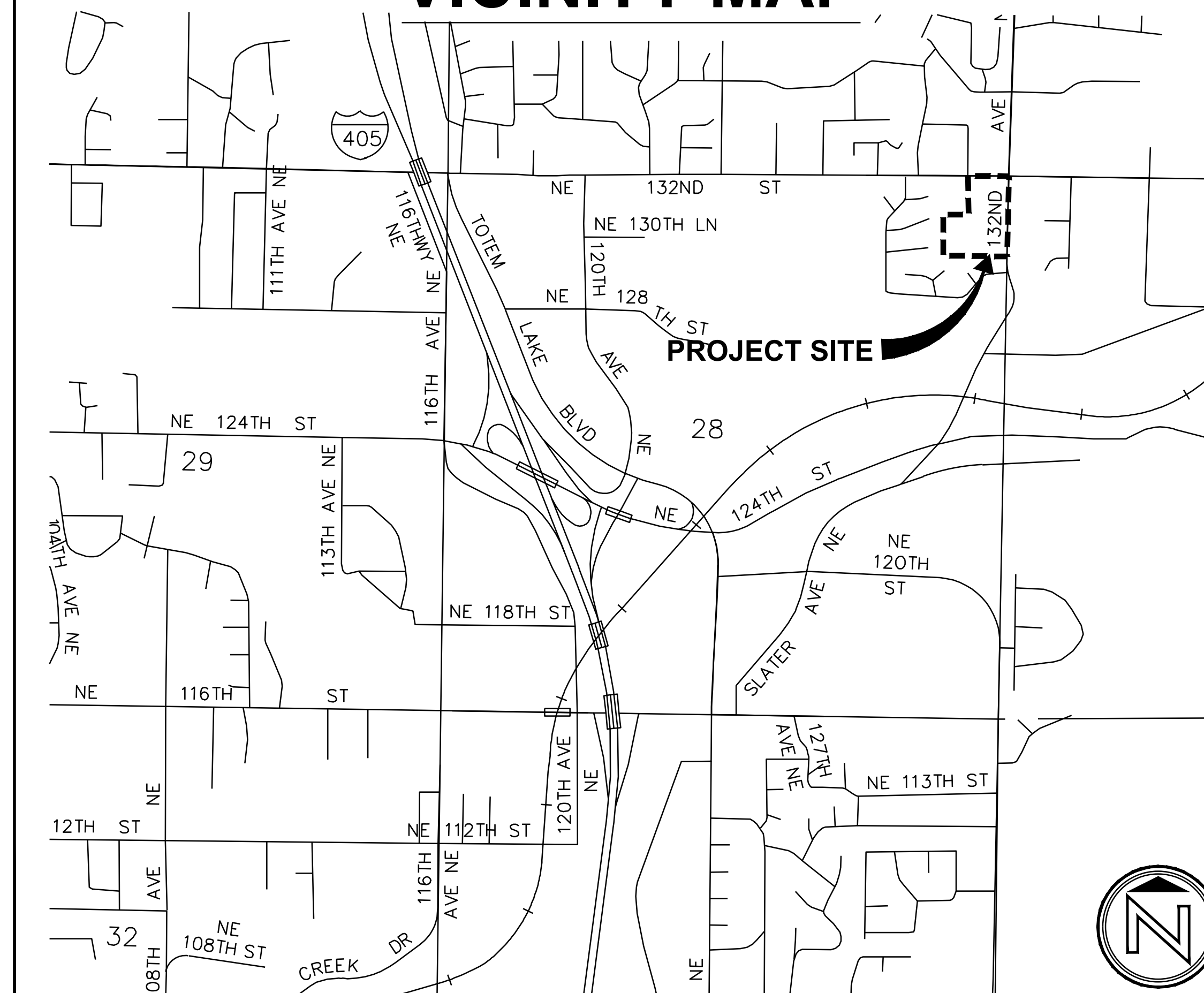
PENNY SWEET
JAY ARNOLD
TOM NEIR
TOBY NIXON
KELLI CURTIS
DAVE ASHER
JON PASCAL
KURT TRIPLETT
KATHY BROWN
ROD STEITZER

MAYOR
DEPUTY MAYOR
COUNCIL MEMBER
COUNCIL MEMBER
COUNCIL MEMBER
COUNCIL MEMBER
COUNCIL MEMBER
CITY MANAGER
PUBLIC WORKS DIRECTOR
CAPITAL PROJECTS MANAGER

CONTACT PERSONNEL

NAME	AGENCY	PHONE
DOREEN GAVIN, P.E.	AHBL, INC.	253-383-2422
BRIAN BAKER	COK PROJECT ENGINEER	425-587-3874
LEE WINSTON, P.E.	COK STORM/SEWER	425-587-3916
NATHEN HOWER	COK PW STREETS	425-587-3904
DENNIS BOOTH	PSE (ELECTRIC)	425-587-9188
JEANNE COLEMAN	PSE (GAS)	425-587-6550
GEORGE MATOTE	NORTHSHORE UTILILTY DISTRICT	425-398-4400
JOE FORDON	COMCAST	425-263-5348
TOM CHRIEST	WATER/SEWER	425-587-3910
JASON OSBORN	STORM	425-587-3901
JAY SCHWAB	FRONTIER COMMUNICATIONS	425-263-4019
	COK POLICE	425-587-3435
	COK FIRE	425-587-3722
	COK SPILL RESPONSE HOTLINE	425-587-3900
	EMERGENCY	911
	ONE CALL LOCATES	1-800-424-5555

VICINITY MAP

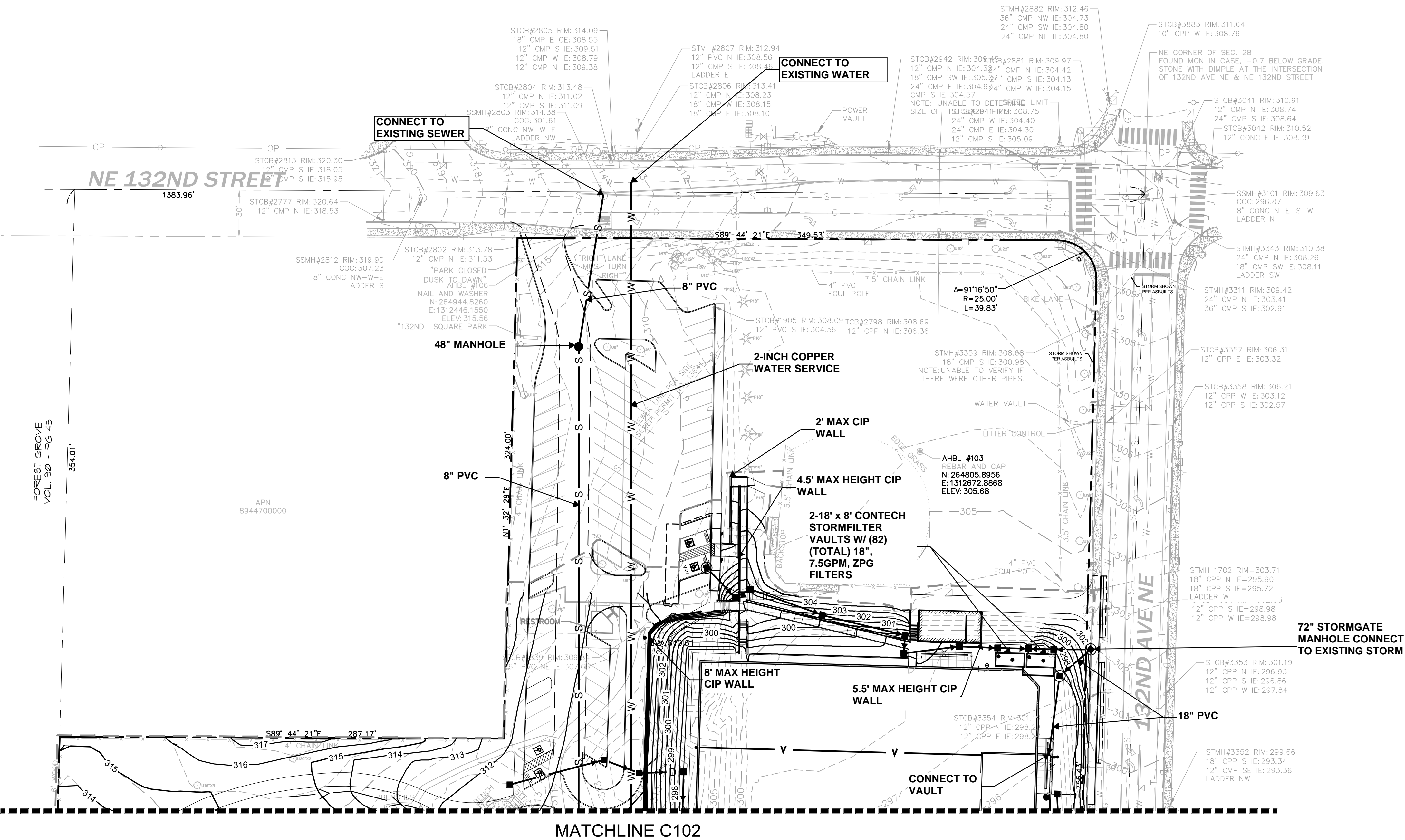


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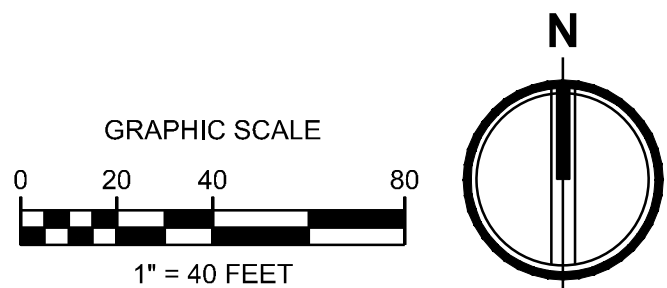
DWG. NO.

SHEET



NOTE
ALL STORM PIPE UNLESS
OTHERWISE STATED SHALL BE
12-INCH PVC.

LEGEND	
	CATCH BASIN - TYPE II
	CATCH BASIN - TYPE I
	STORM DRAINAGE PIPING
	SANITARY SEWER
	WATER PIPING
	SANITARY SEWER MANHOLE
	CLEANOUT
	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR



DWG. NO. **C101**



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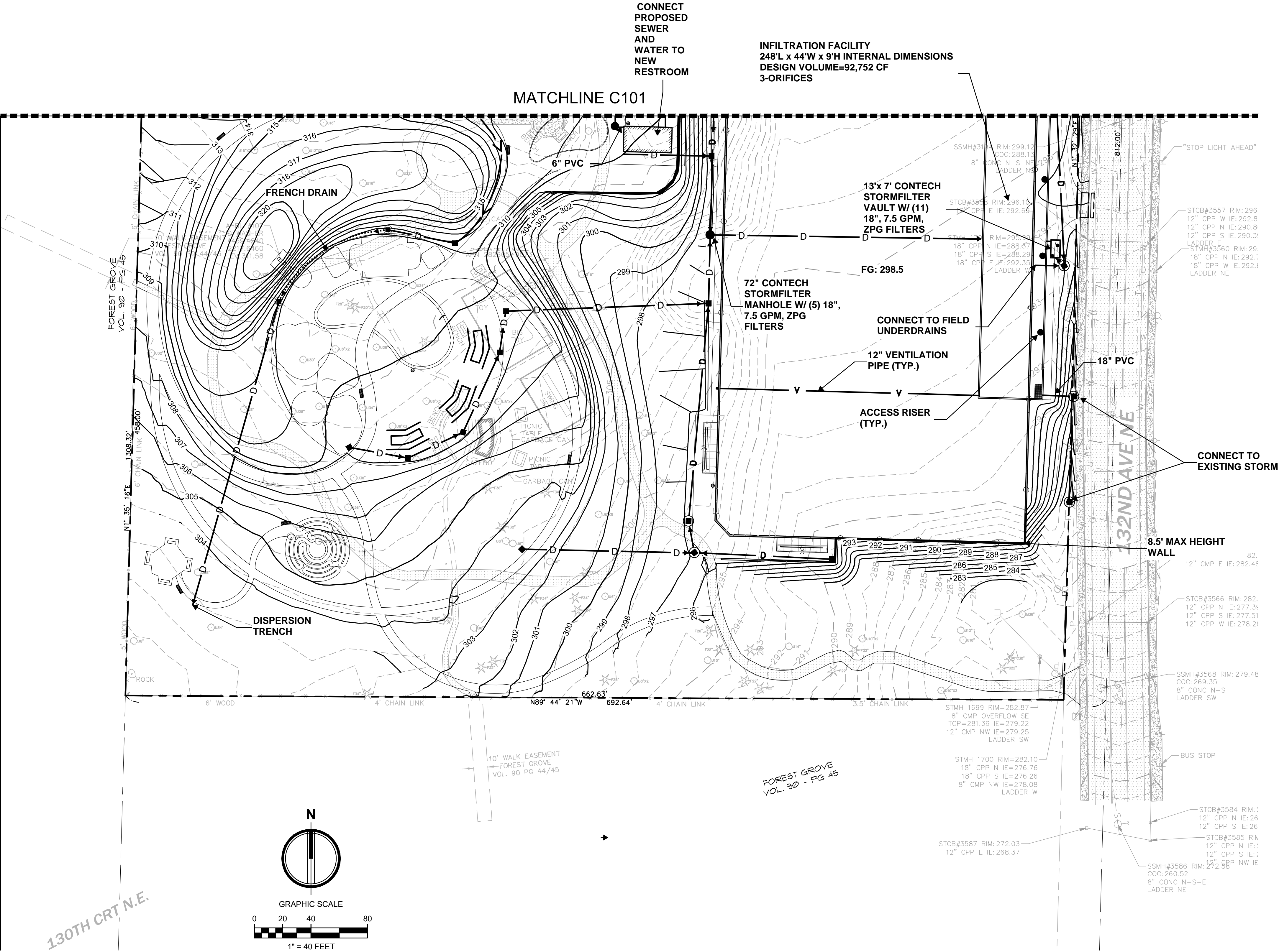


FILE	ENGR.	REVIEW	SCALE	DATE
	JN	-	AS SHOWN	10/4/2019
NO.	REVISION		BY	REVIEW
				DATE



CITY OF KIRKLAND
PUBLIC WORKS DEPARTMENT
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132ND SQUARE PARK
STORMWATER RETROFIT
30% DESIGN

SHEET



NOTE
UNLESS OTHERWISE STATED ALL
STORM PIPE SHALL BE 12-INCH
PVC.

LEGEND	
	CATCH BASIN - TYPE II
	CATCH BASIN - TYPE I
	STORM DRAINAGE PIPING
	SANITARY SEWER
	WATER PIPING
	SANITARY SEWER MANHOLE
	CLEANOUT
	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR

DWG. NO. C102



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**132ND SQUARE PARK
STORMWATER RETROFIT
30% DESIGN**

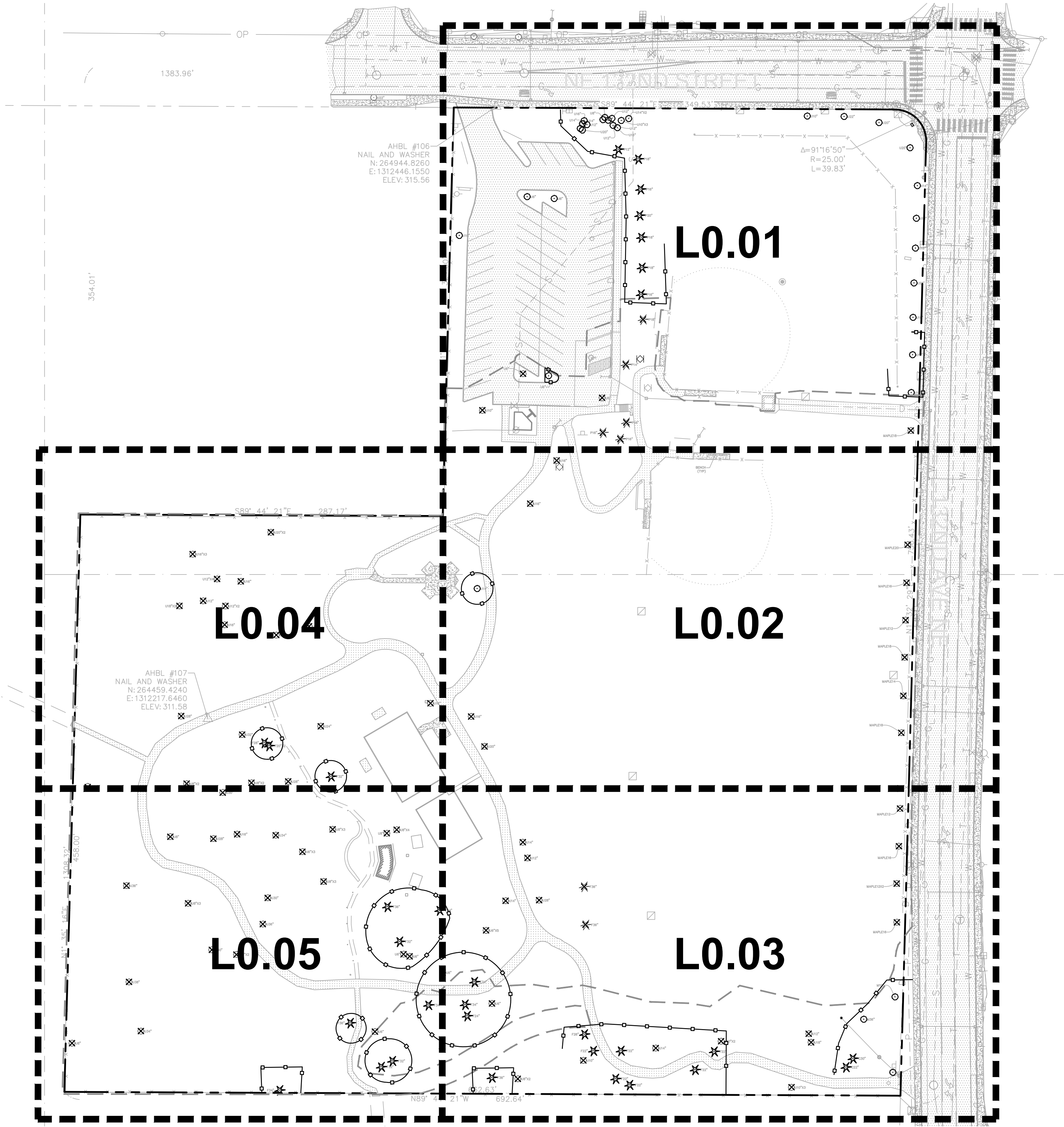
SHEET

LEGEND

- EXISTING FENCE TO REMAIN
- TREE PROTECTION FENCE
- EXISTING TREES TO REMAIN
- EXISTING TREES TO REMOVE
- LIMIT OF WORK
- PROPERTY LINE

TREE RETENTION CALCULATIONS

TREES REMOVED: 79
TREES RETAINED: 63
PROPOSED NEW TREES: 78

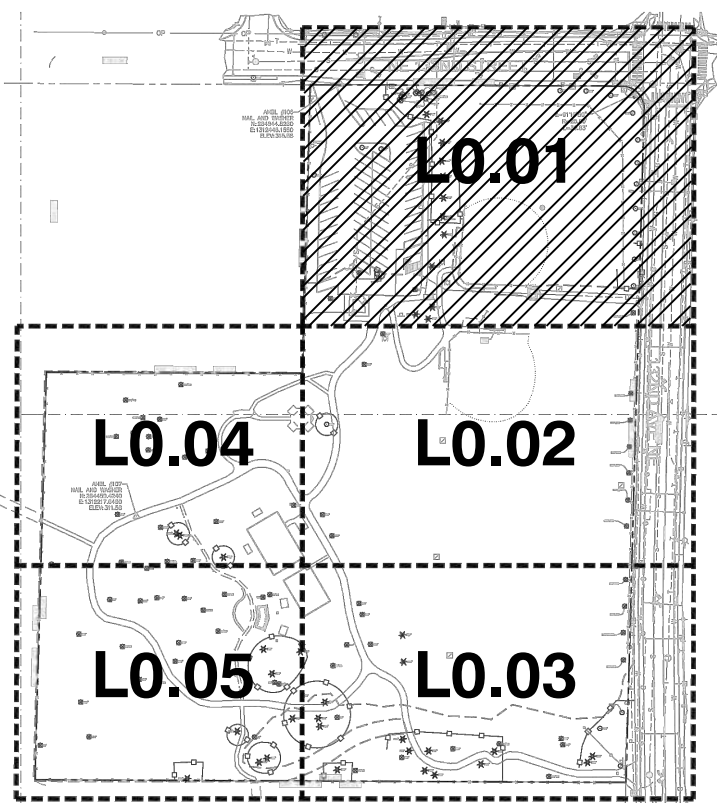


DWG. NO. **L0.00**

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NO.	REVISION		BY	REVIEW DATE

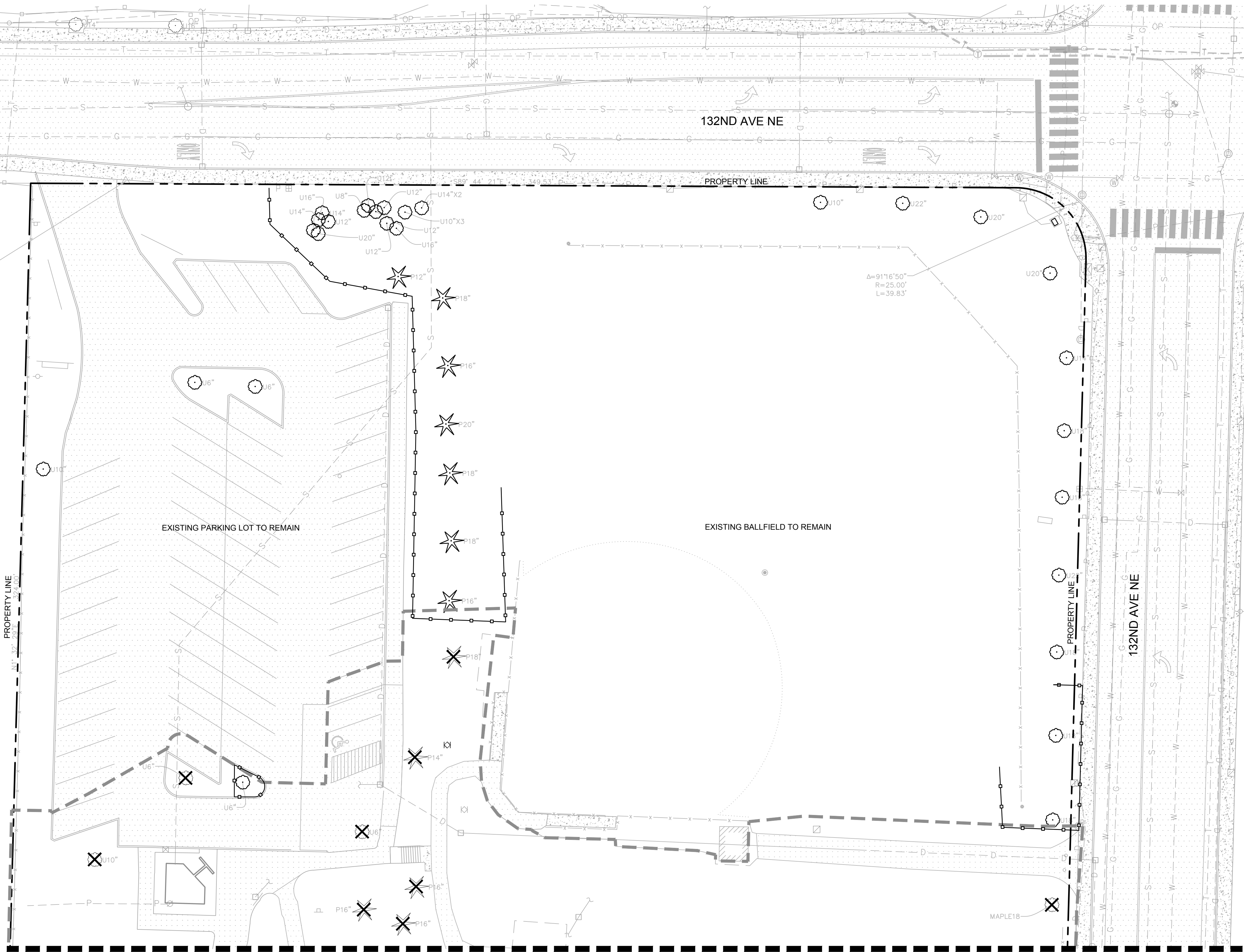


FEDERAL AID NO.

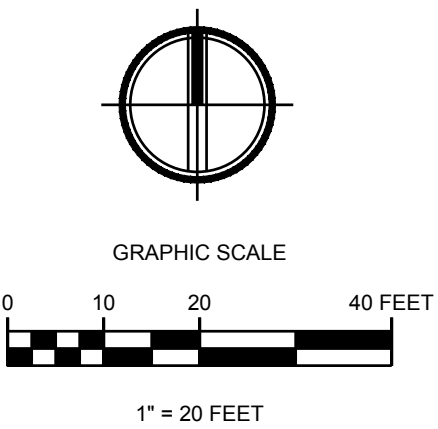


LEGEND

- EXISTING FENCE TO REMAIN
- TREE PROTECTION FENCE
- EXISTING TREES TO REMAIN
- EXISTING TREES TO REMOVE
- LIMIT OF WORK
- PROPERTY LINE



MATCHLINE SEE SHEET L0.02



DWG. NO. **L0.01**



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2180804-SH-TREE RETENTION	BV	-	AS SHOWN	10/04/2019
NO.	REVISION	BY	REVIEW	DATE

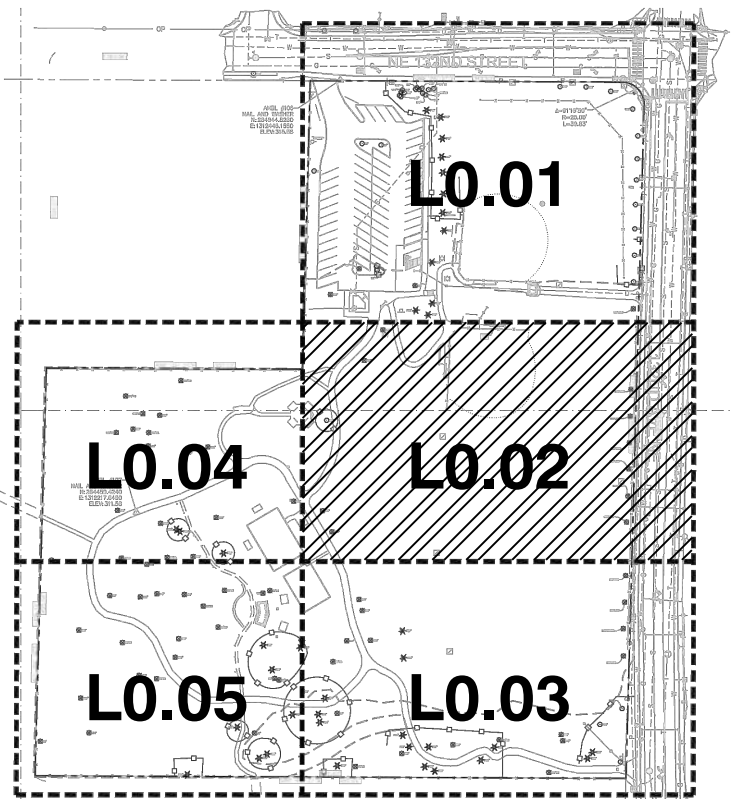
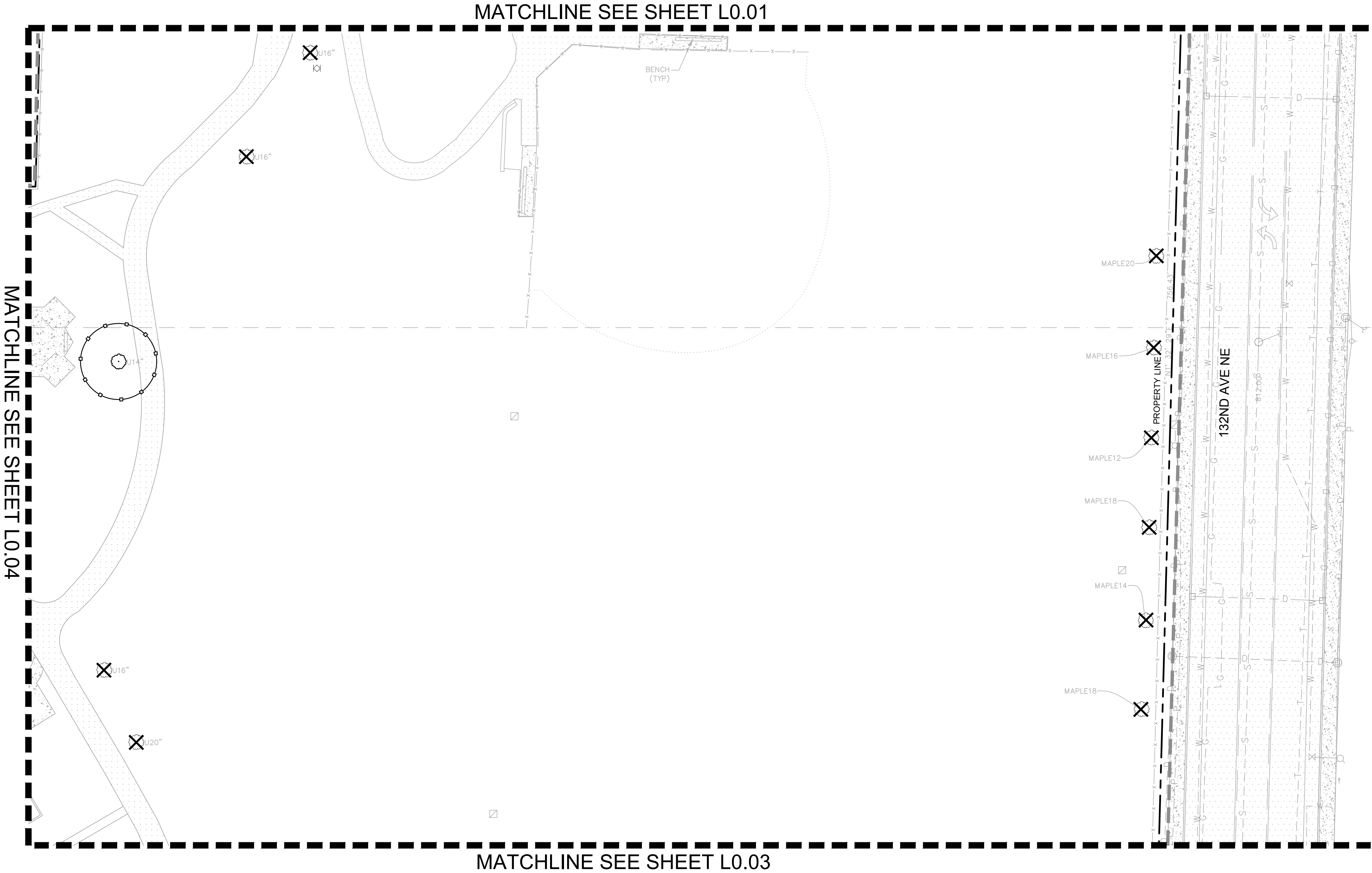


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STORMWATER RETROFIT
TREE RETENTION PLAN

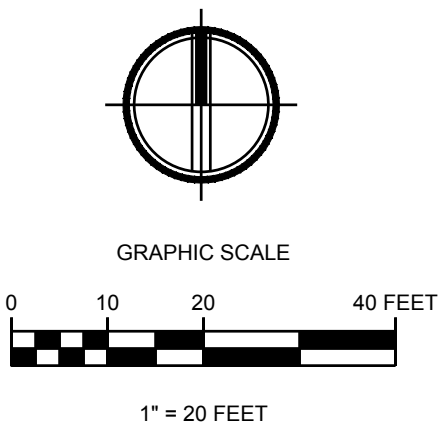
SHEET

40

77



- LEGEND**
- — — — — EXISTING FENCE TO REMAIN
 - — — — — TREE PROTECTION FENCE
 - ✱ ○ EXISTING TREES TO REMAIN
 - ✱ ✱ EXISTING TREES TO REMOVE
 - - - - - LIMIT OF WORK
 - - - - - PROPERTY LINE



DWG. NO. **L0.02**



AHBL
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NO.	REVISION		BY	REVIEW DATE



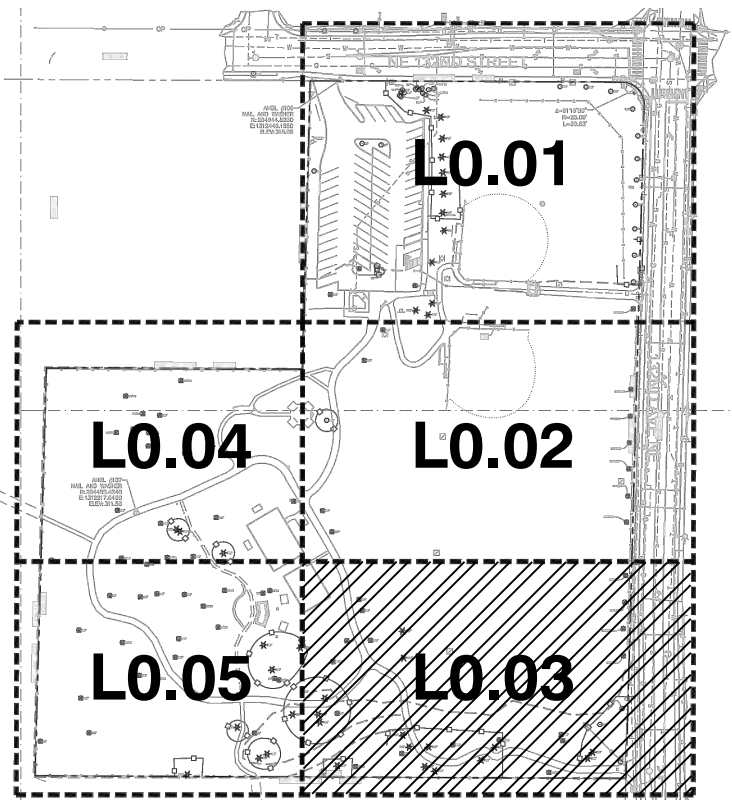
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132ND SQUARE PARK
STORMWATER RETROFIT
TREE RETENTION PLAN

SHEET

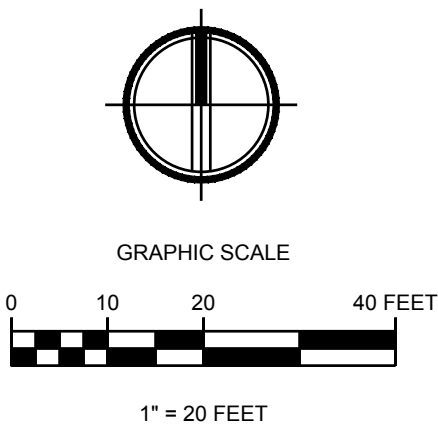
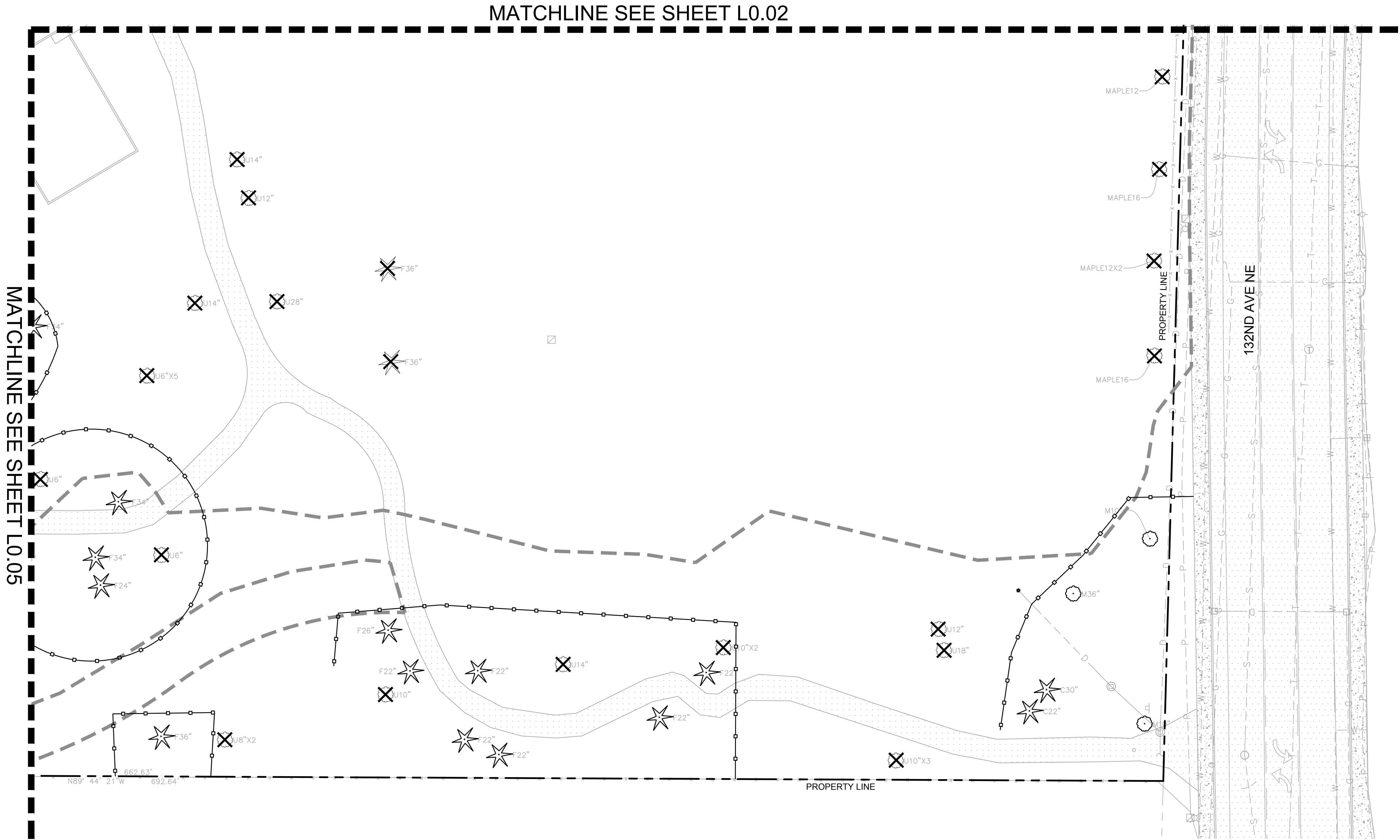
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LEGEND

- EXISTING FENCE TO REMAIN
- TREE PROTECTION FENCE
- EXISTING TREES TO REMAIN
- EXISTING TREES TO REMOVE
- LIMIT OF WORK
- PROPERTY LINE



DWG. NO. **L0.03**



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2180804-SH-TREE RETENTION	BV	-	AS SHOWN	10/04/2019
NO.	REVISION		BY	REVIEW DATE

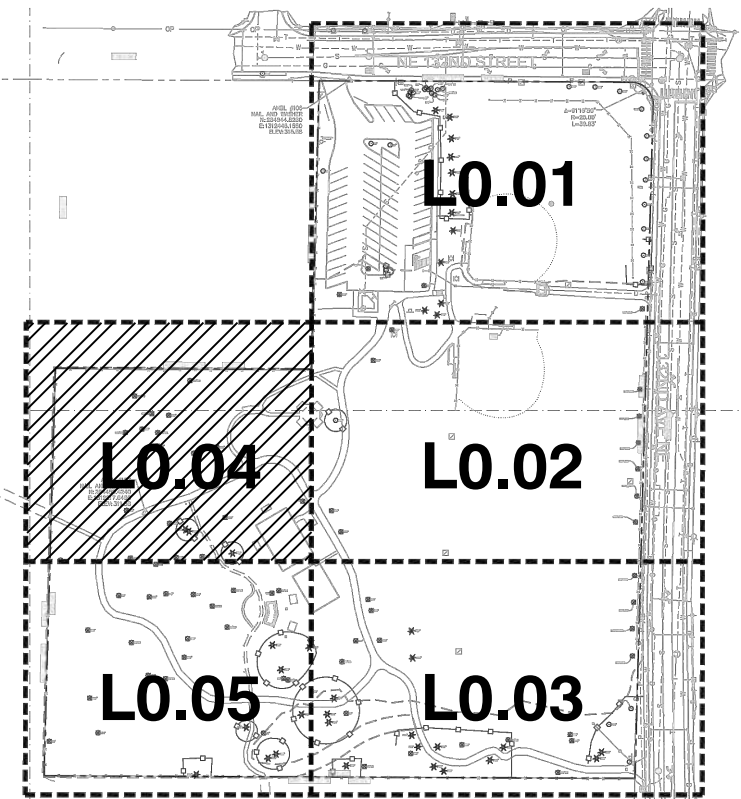


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132ND SQUARE PARK
STORMWATER RETROFIT
TREE RETENTION PLAN

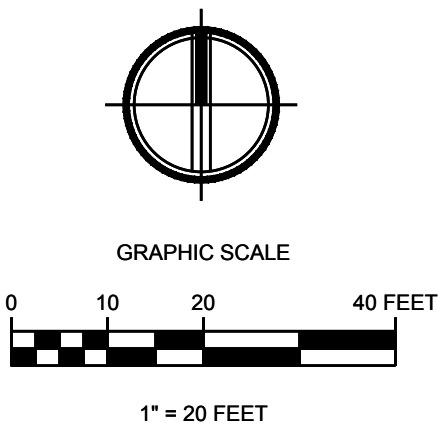
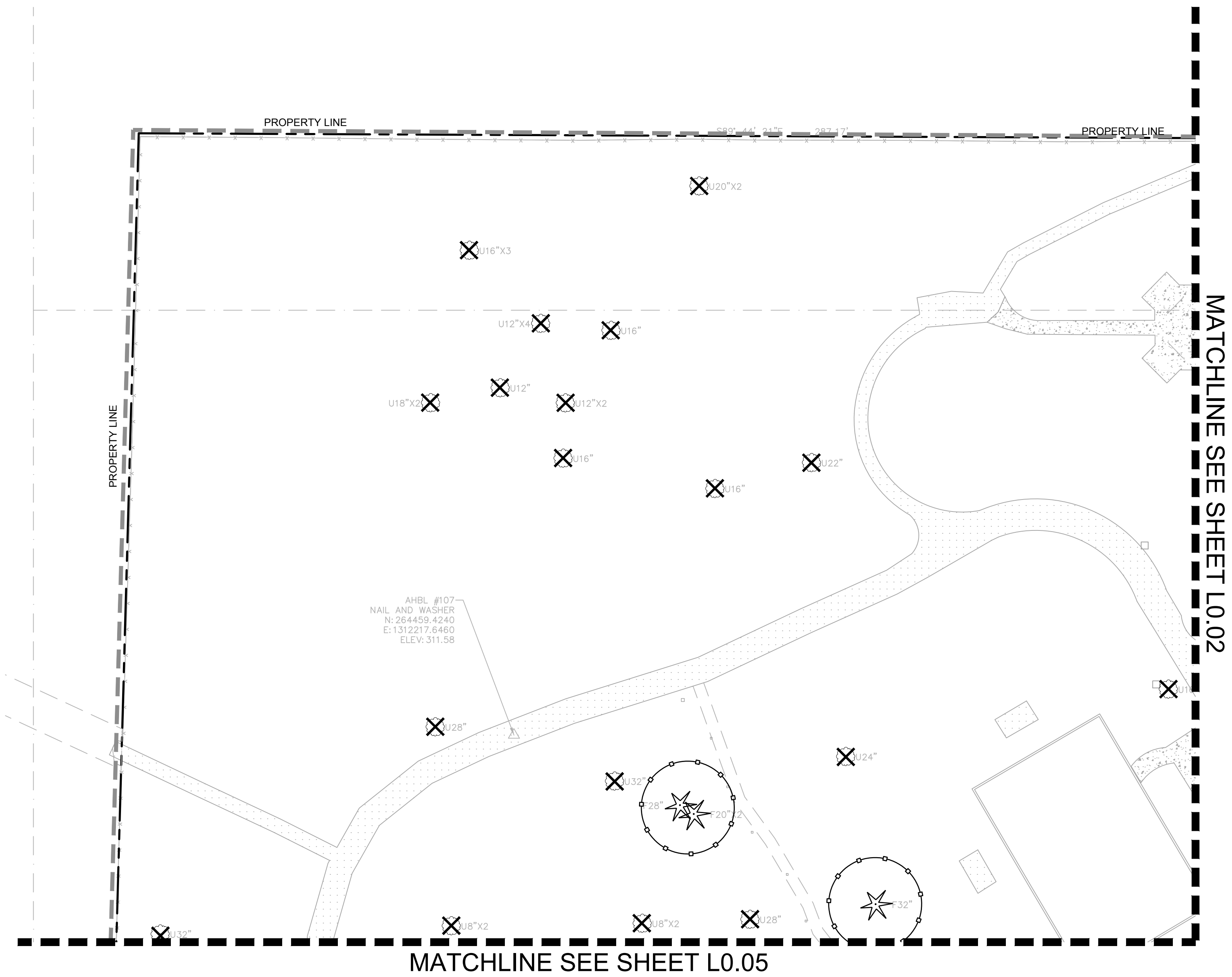
SHEET

42

77



- LEGEND**
- EXISTING FENCE TO REMAIN
 - TREE PROTECTION FENCE
 - EXISTING TREES TO REMAIN
 - EXISTING TREES TO REMOVE
 - LIMIT OF WORK
 - PROPERTY LINE



DWG. NO. **L0.04**



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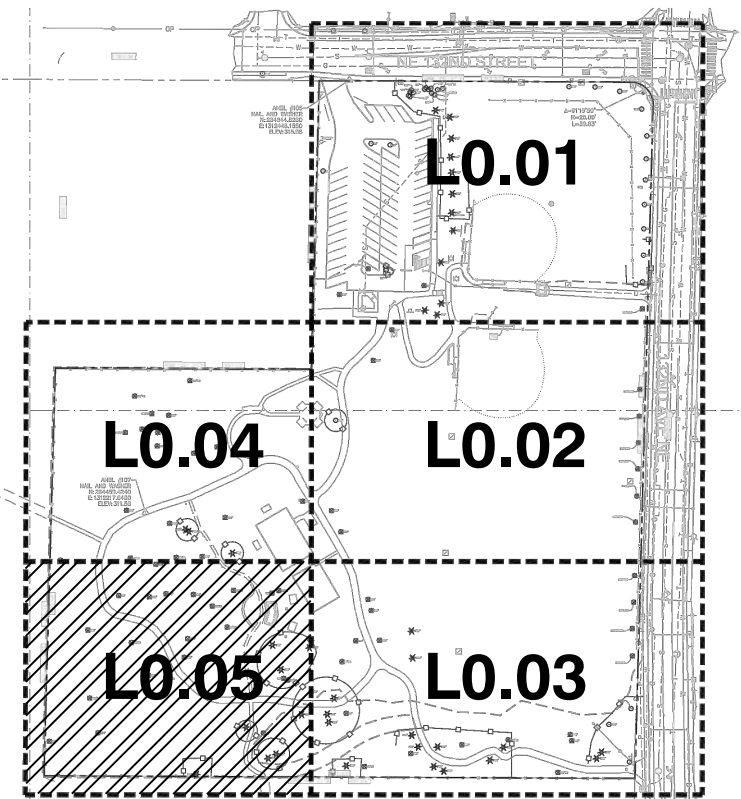
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2180804-SH-TREE RETENTION	BV	—	AS SHOWN	10/04/2019
NO.	REVISION		BY	REVIEW
				DATE



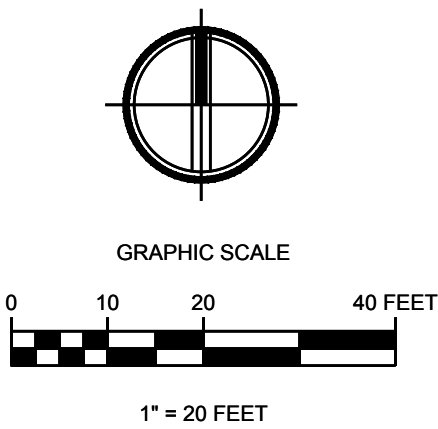
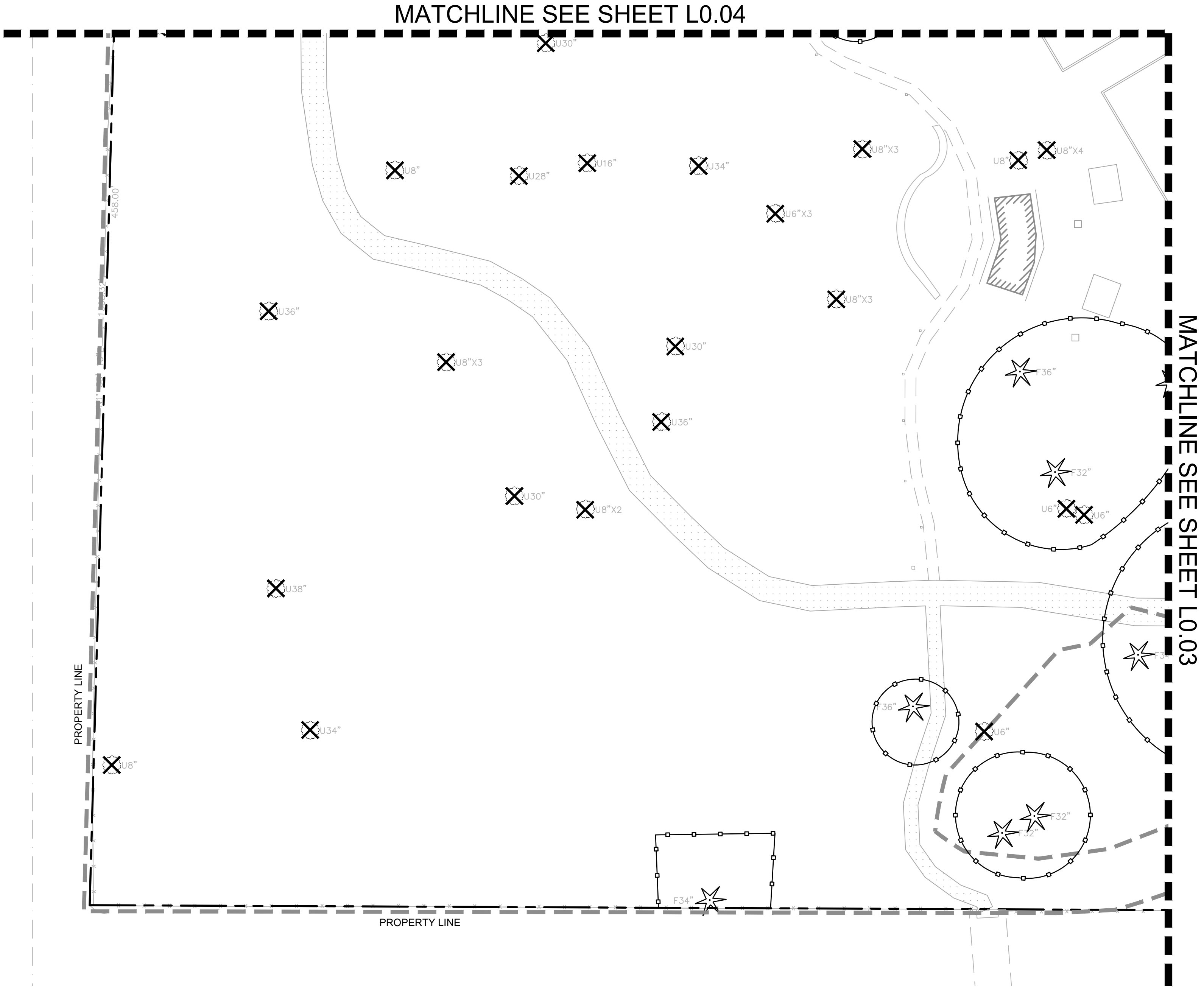
CITY OF KIRKLAND
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123 FIFTH AVENUE — KIRKLAND, WA 98033—6189 — (425)587—3800
132ND SQUARE PARK
STORMWATER RETROFIT
TREE RETENTION PLAN

SHEET

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77



- LEGEND**
- — — — — EXISTING FENCE TO REMAIN
 - — — — — TREE PROTECTION FENCE
 - ★ ○ EXISTING TREES TO REMAIN
 - ✕ ✕ EXISTING TREES TO REMOVE
 - - - - - LIMIT OF WORK
 - - - - - PROPERTY LINE



DWG. NO. **L0.05**



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FILE	ENGR.	REVIEW	SCALE	DATE
2180804-SH-TREE RETENTION	BV	—	AS SHOWN	10/04/2019
NO.	REVISION		BY	REVIEW

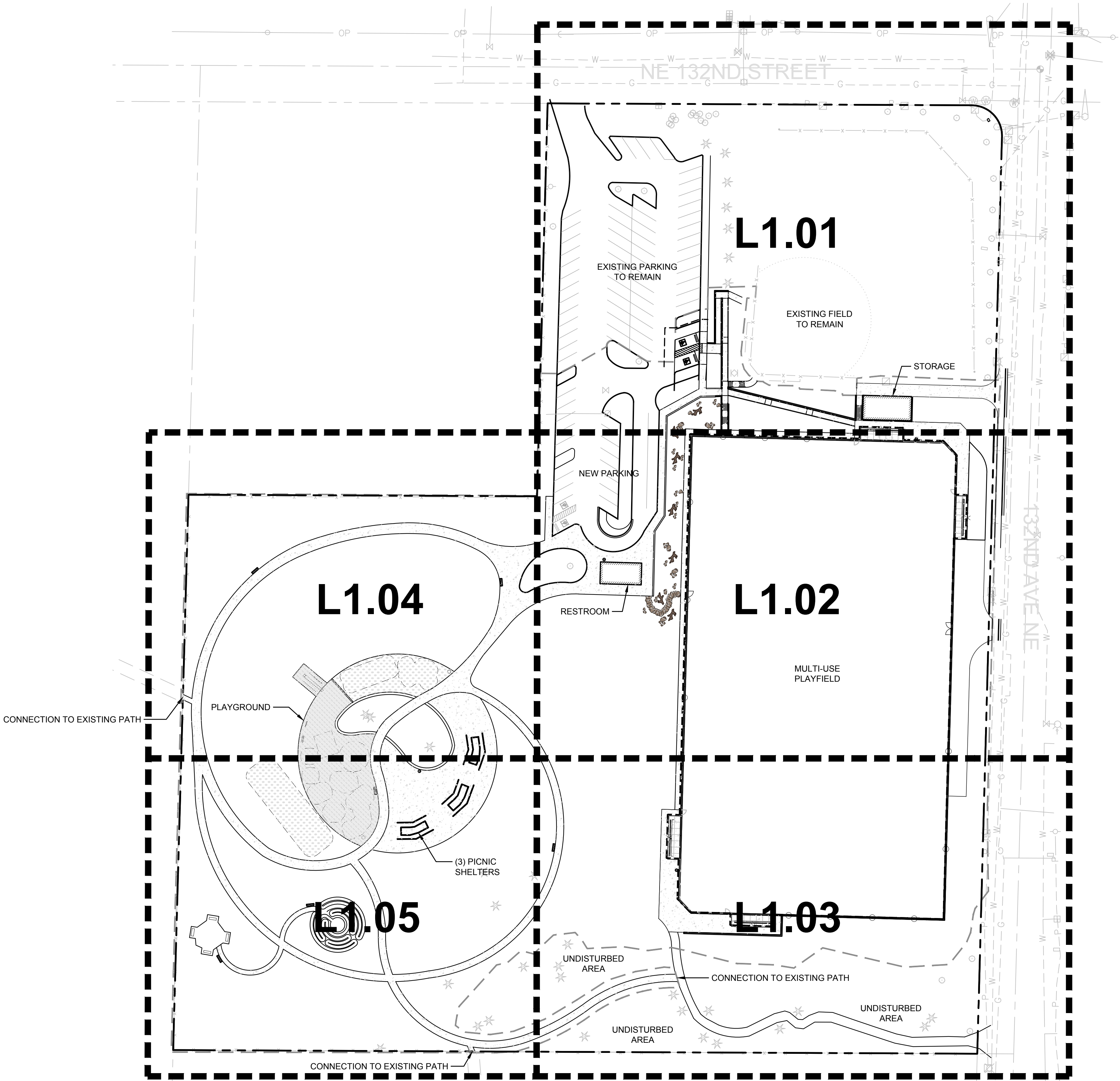


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132ND SQUARE PARK
STORMWATER RETROFIT
TREE RETENTION PLAN

SHEET

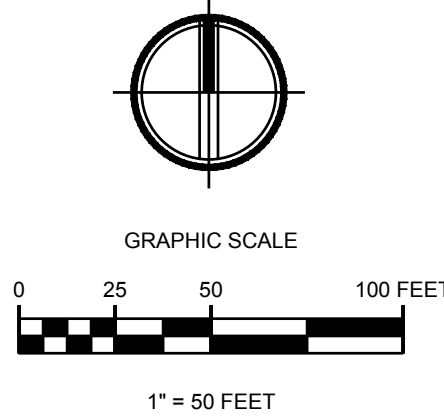
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GENERAL LANDSCAPE NOTES

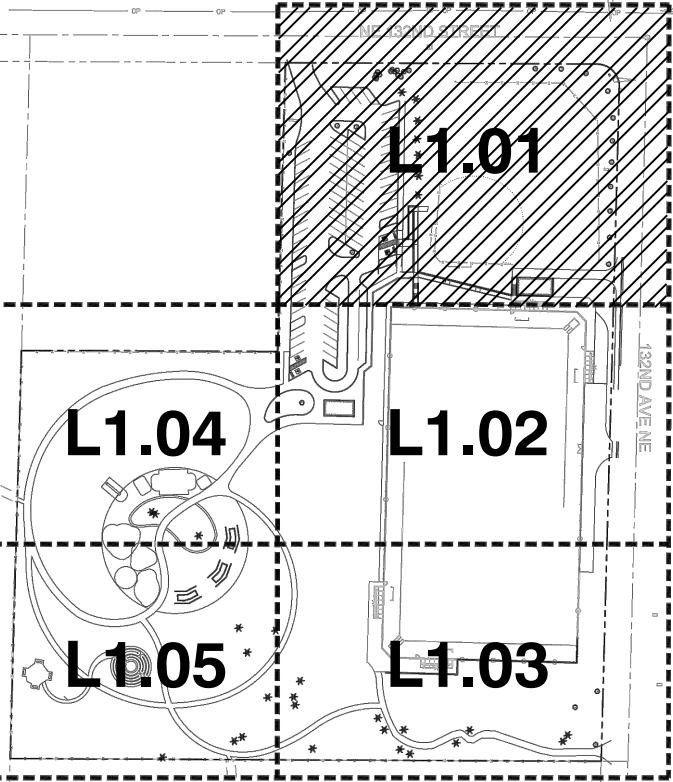
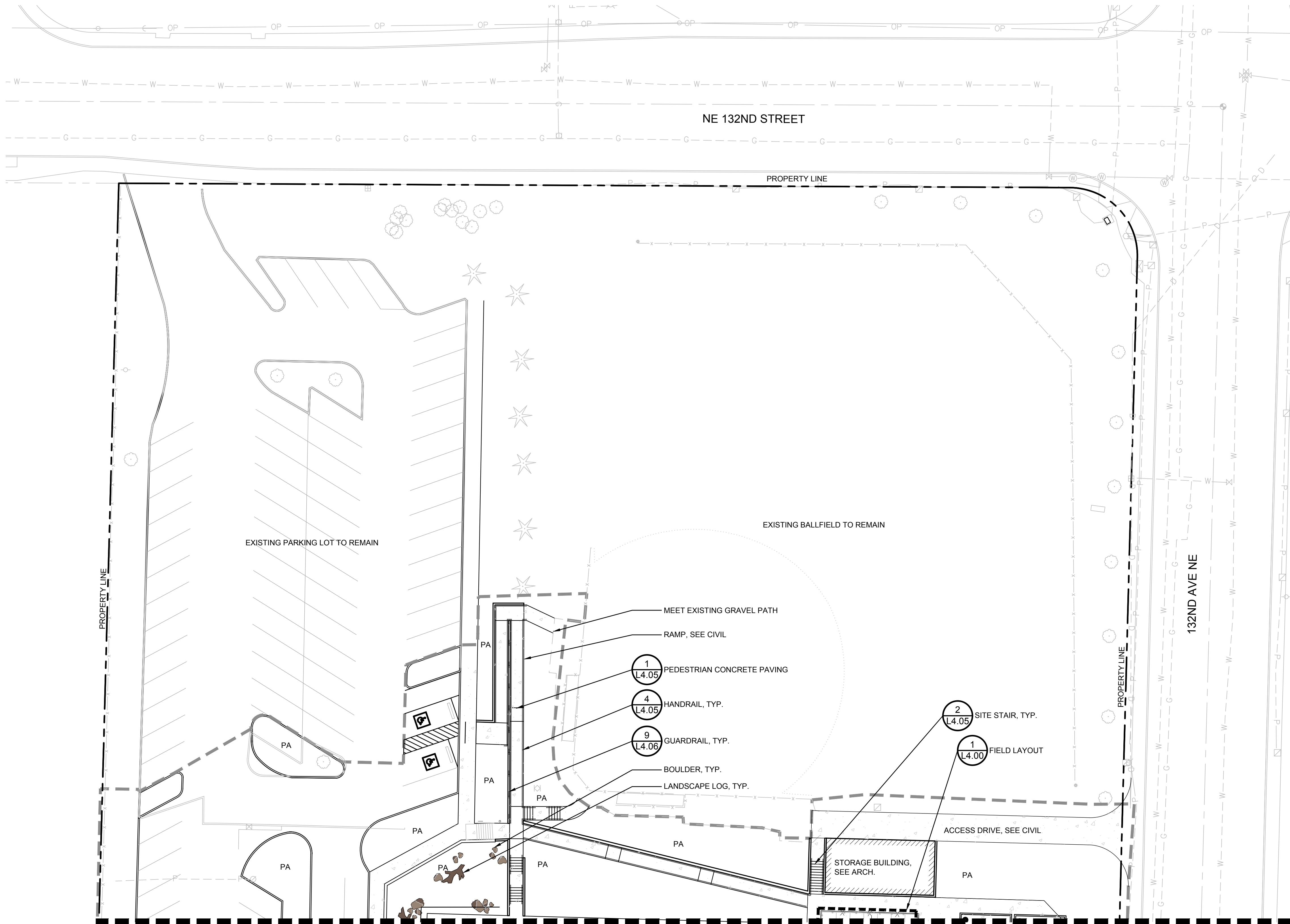
1. SEE SPECIFICATIONS FOR PLANT MATERIAL, TOP SOIL AND PLANTING MIX TYPES AND DEPTH, MULCHING, SOIL AMENDMENTS, FERTILIZERS AND WARRANTIES.
2. PLANTING SHALL CONFORM TO ALL CITY OF KIRKLAND CODE REQUIREMENTS, INCLUDING PRESERVATION OF ADEQUATE INTERSECTION SIGHT DISTANCE LINES/ TRIANGULAR AREAS.
3. CONTRACTOR SHALL VERIFY ON-SITE CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION.
4. INSTALL AUTOMATIC UNDERGROUND IRRIGATION SYSTEM AS SPECIFIED IN ALL NEW AND RENOVATED LANDSCAPE AREAS.
5. THE CONTRACTOR AND OWNER ARE RESPONSIBLE FOR READING THE PLANS, SPECIFICATIONS AND NOTES.
6. THE CONTRACTOR SHALL VERIFY ALL PLANT MATERIAL QUANTITIES LISTED ARE FOR THE CONVENIENCE OF THE CONTRACTOR. ACTUAL NUMBER OF SYMBOLS SHALL HAVE PRIORITY OVER QUANTITY DESIGNATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COUNTING THE TOTAL NUMBER OF PLANTS INDICATED ON THE PLANS AND ESTIMATING GROUNDCOVER QUANTITIES.
7. THE CONTRACTOR SHALL FURNISH AND PAY FOR ALL CONTAINER OR FIELD GROWN TREES, SHRUBS AND GROUNDCOVERS, INCLUDING SEEDED AND SODDED TURF, HYDROMULCHES AND FLATTED GROUNDCOVERS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE AND PAY FOR: PLANTING OF ALL PLANT MATERIALS; THE SPECIFIED GUARANTEE OF ALL PLANT MATERIALS; THE STAKING AND GUYING OF TREES AND THE CONTINUOUS PROTECTION OF ALL PLANT MATERIALS UPON THEIR ARRIVAL AT THE SITE.
8. SEE SHEET L4.09 FOR PLANTING DETAILS.



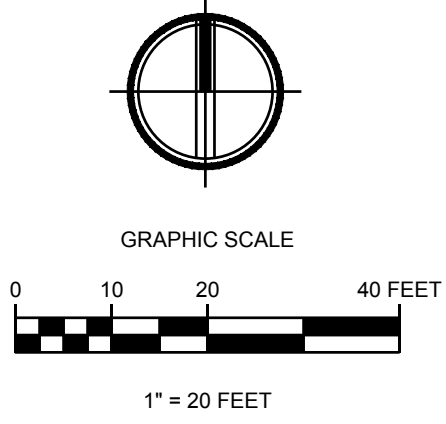
DWG. NO. **L1.00**

FILE	ENGR.	REVIEW	SCALE	DATE
2180804-SH-MATERIALS	BV	-	AS SHOWN	10/04/2019
NO.	REVISION	BY	REVIEW	DATE





- LEGEND**
- EXISTING FENCE TO REMAIN
 - EXISTING TREES TO REMAIN
 - PA PLANTING AREA
 - LIMIT OF WORK
 - PROPERTY LINE
 - SITE WALL, SEE CIVIL



DWG. NO. **L1.01**



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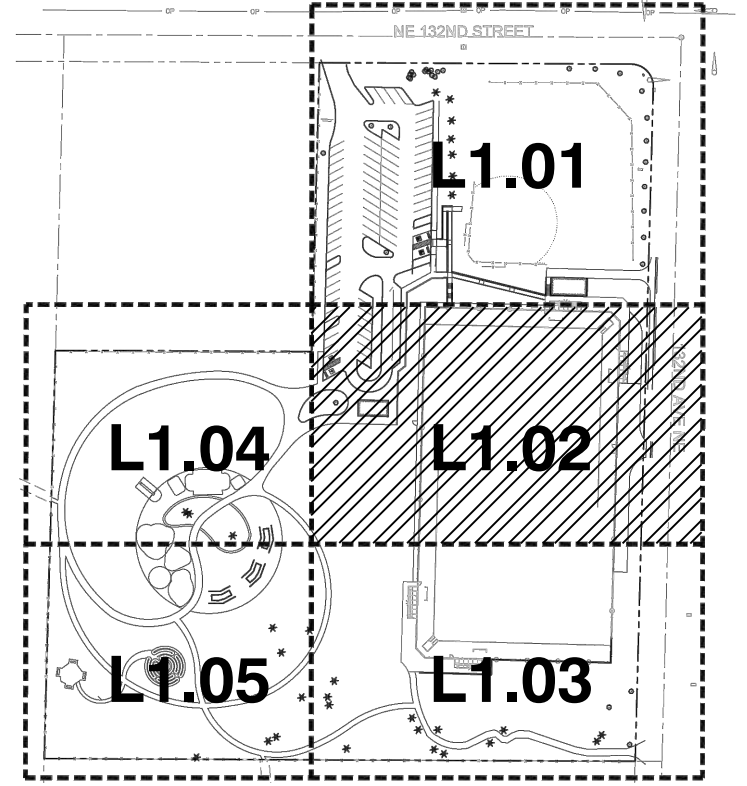
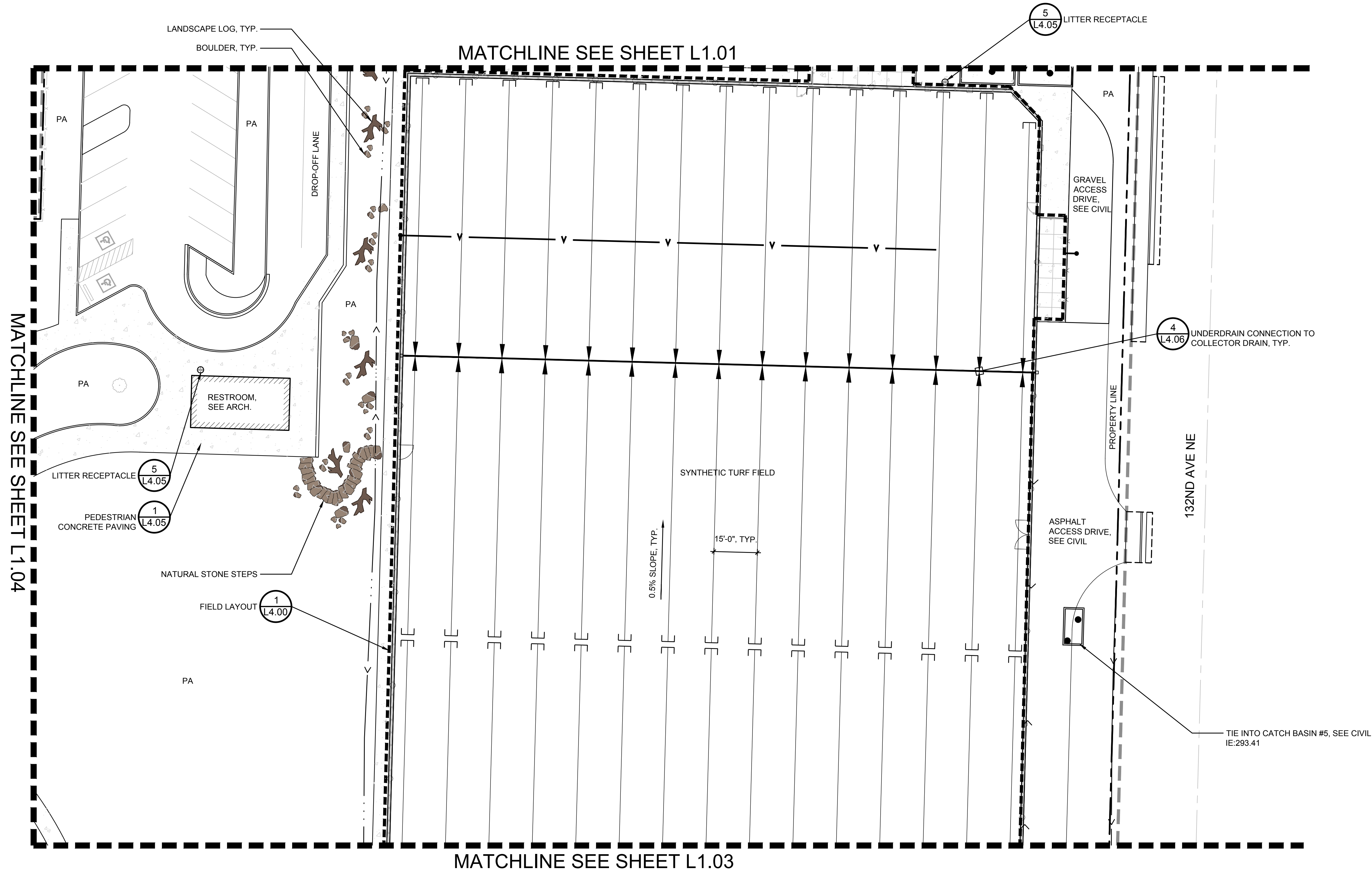


FILE	ENGR.	REVIEW	SCALE	DATE
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NO.	REVISION		BY	REVIEW DATE



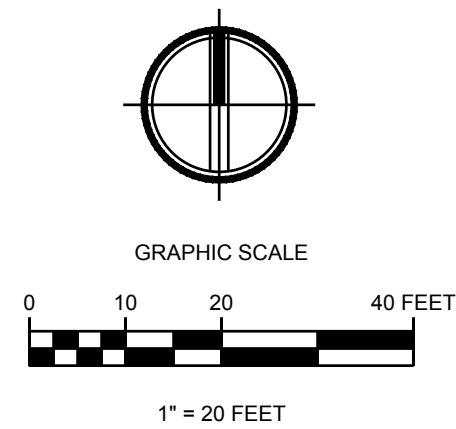
CITY OF KIRKLAND
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**132ND SQUARE PARK
STORMWATER RETROFIT**
MATERIALS PLAN

SHEET
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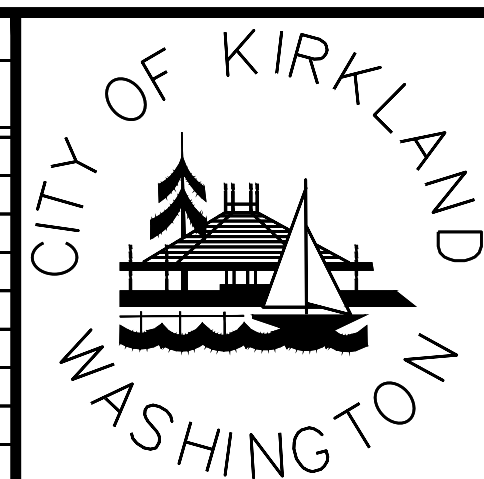
LEGEND

- EXISTING FENCE TO REMAIN
- EXISTING TREES TO REMAIN
- PA PLANTING AREA
- LIMIT OF WORK
- PROPERTY LINE
- SITE WALL, SEE CIVIL
- 4" PERFORATED LATERAL PIPE (3 L4.06)
- 6" SOLID COLLECTOR PIPE (5 L4.06)
- 8" SOLID PVC PIPE (5 L4.06)
- CLEANOUT (6 L4.06)

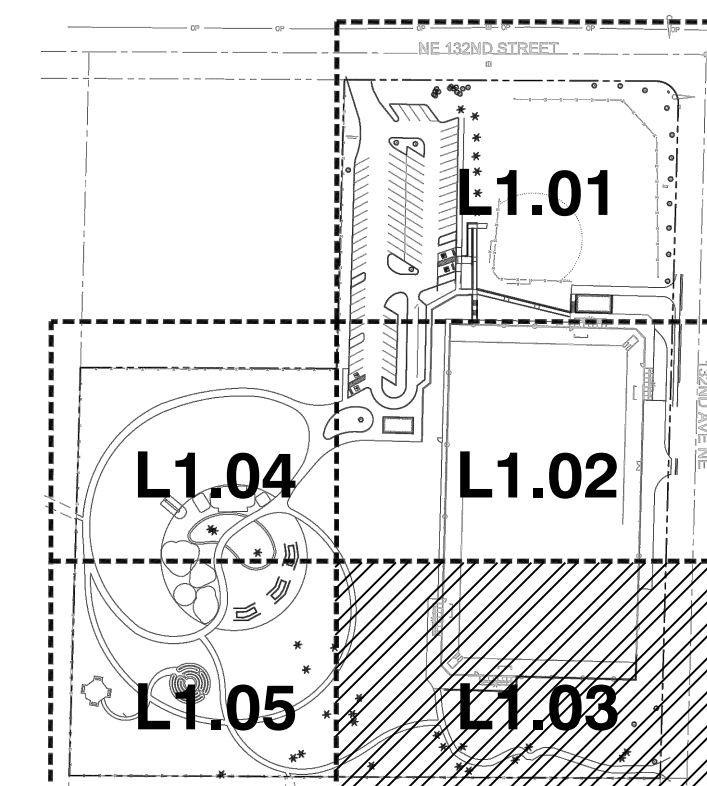


DWG. NO. **L1.02**







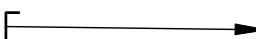



FILE	ENGR.	REVIEW	SCALE	DATE
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NO.	REVISION	BY	REVIEW	DATE

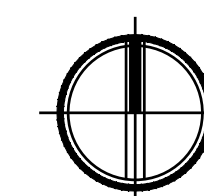
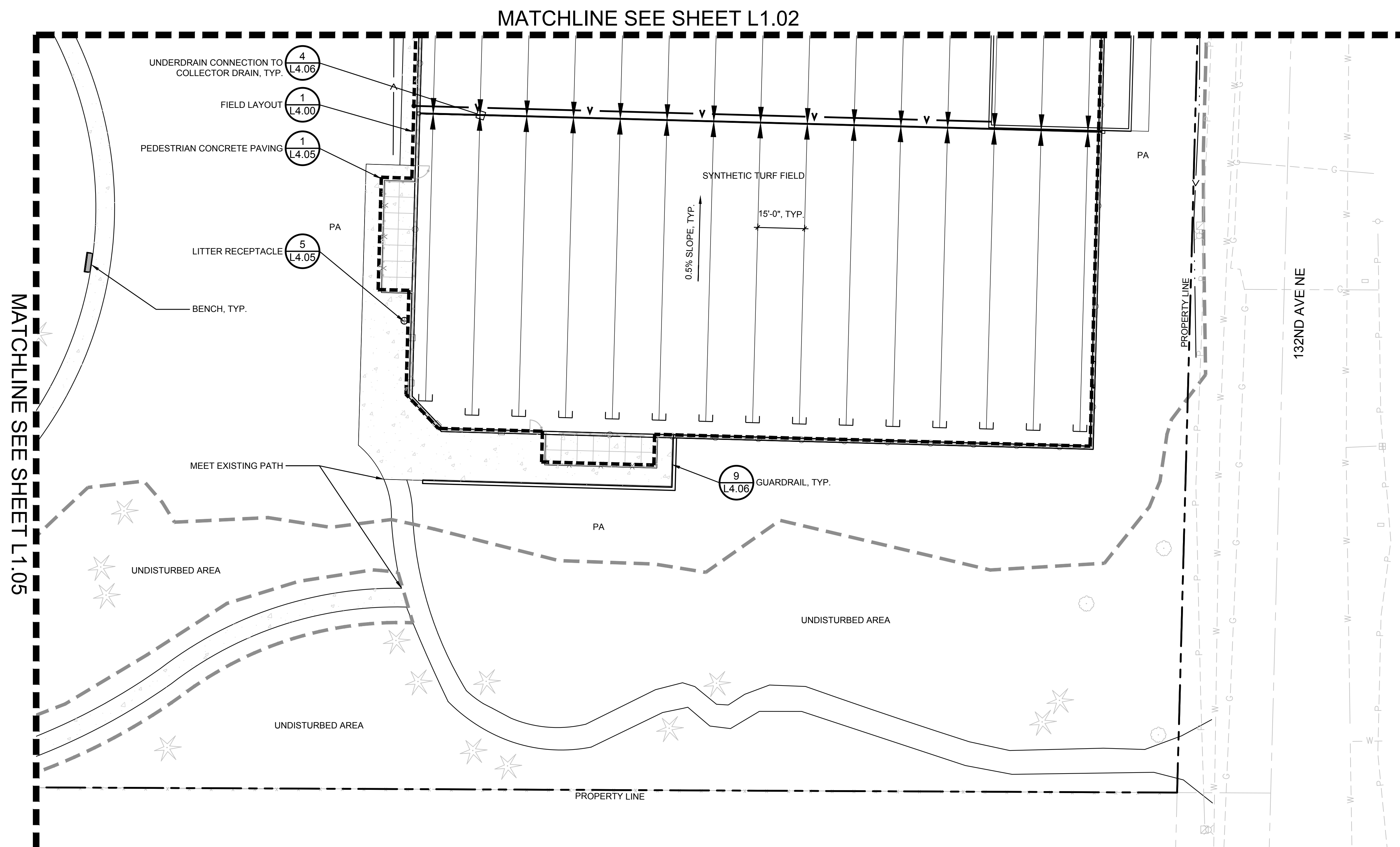


FEDERAL AID NO.



LEGEND

- | | |
|---|----------------------------|
|  | EXISTING FENCE TO REMAIN |
|  | EXISTING TREES TO REMAIN |
|  | PLANTING AREA |
|  | LIMIT OF WORK |
|  | PROPERTY LINE |
|  | SITE WALL, SEE CIVIL |
|  | 4" PERFORATED LATERAL PIPE |
|  | 6" SOLID COLLECTOR PIPE |
|  | 8" SOLID PVC PIPE |
|  | CLEANOUT |



GRAPHIC SCALE



1" = 20 FEET

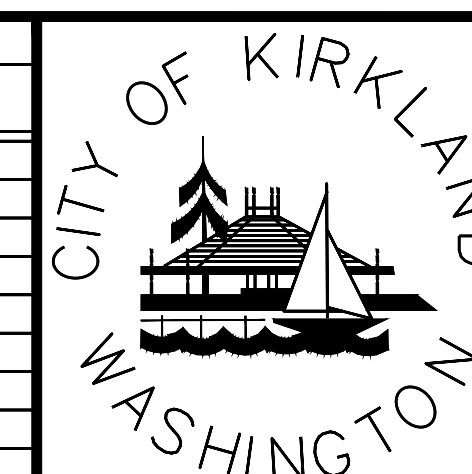
DWG. NO. **L1.03**



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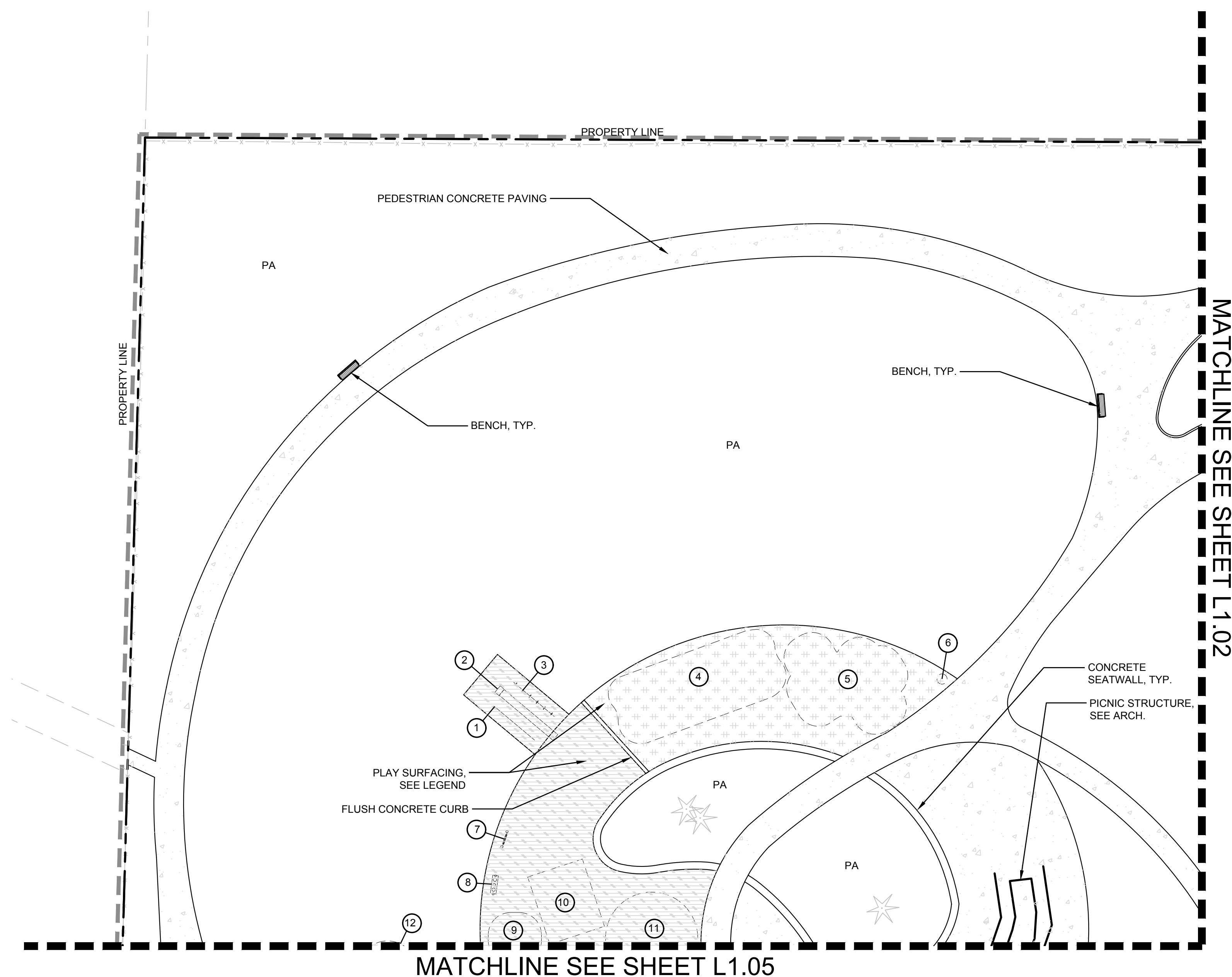
132ND SQUARE PARK
STORMWATER RETROFIT
MATERIALS PLAN

SHEET

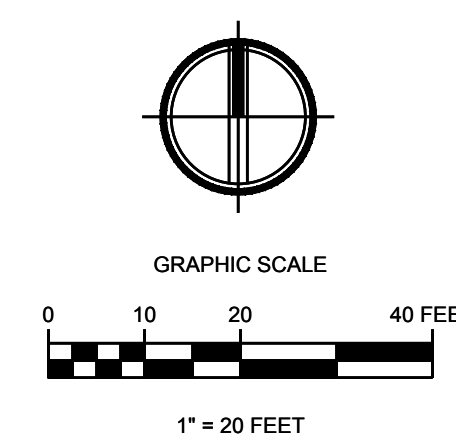
48

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EQUIP. #	MANUFACTURER	DESCRIPTION
1	KOMPAN	HILL CLIMBER
2	KOMPAN	METAL EMBANKMENT SLIDE
3	KOMPAN	HILL CLIMBER WITH EPDM
4	KOMPAN	ROBINIA SWING SET (2 STANDARD, 2 BABY, 1 SHELL NEST)
5	KOMPAN	DOUBLE TOWER DOUBLE SLIDE
6	KOMPAN	GAS PUMP
7	KOMPAN	XYLOPHONE PANEL
8	KOMPAN	PERCUSSION PANEL
9	KOMPAN	FOREST BUG SPRINGER
10	KOMPAN	WATER LILY BALANCE
11	KOMPAN	WHEELCHAIR CAROUSEL
12	KOMPAN	ZIPLINE
13	KOMPAN	SNAIL SPRING RIDER
14	KOMPAN	STILTS
15	ID SCULPTURE	HOME TREE
16	KOMPAN	UP AND OVER
17	KOMPAN	PARKOUR 4
18	KOMPAN	GAS PUMP



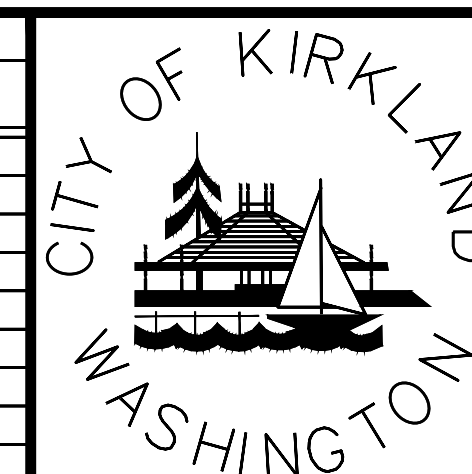
	EXISTING FENCE TO REMAIN
	EXISTING TREES TO REMAIN
PA	PLANTING AREA
---	LIMIT OF WORK
- . - . - .	PROPERTY LINE
=====	SITE WALL, SEE CIVIL
	ENGINEERED WOOD FIBER
	SYNTHETIC PLAY TURF



DWG. NO. **L1.04**



Know what's **below**.
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CITY OF KIRKLAND
PUBLIC WORKS DEPARTMENT
123 FIFTH AVENUE – KIRKLAND, WA 98033-6189 – (425)587-3800

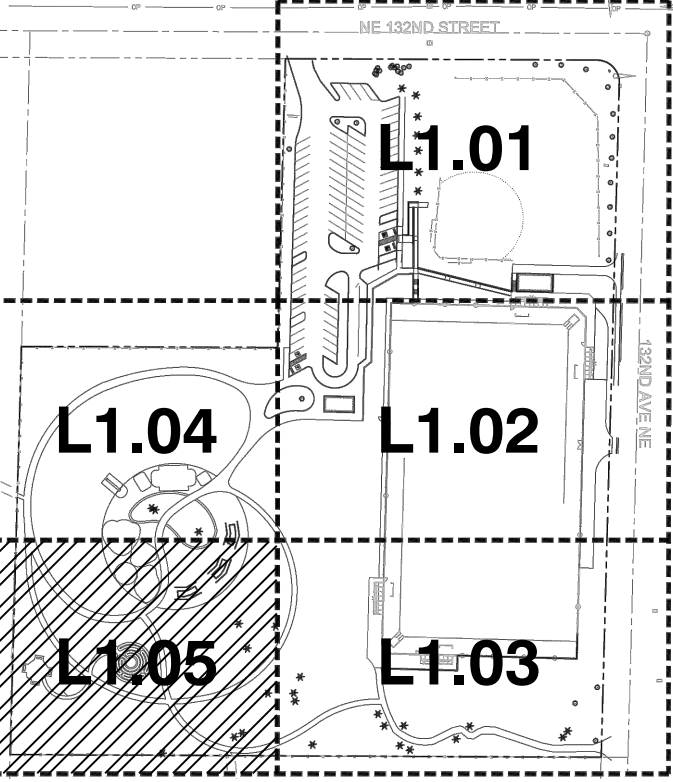
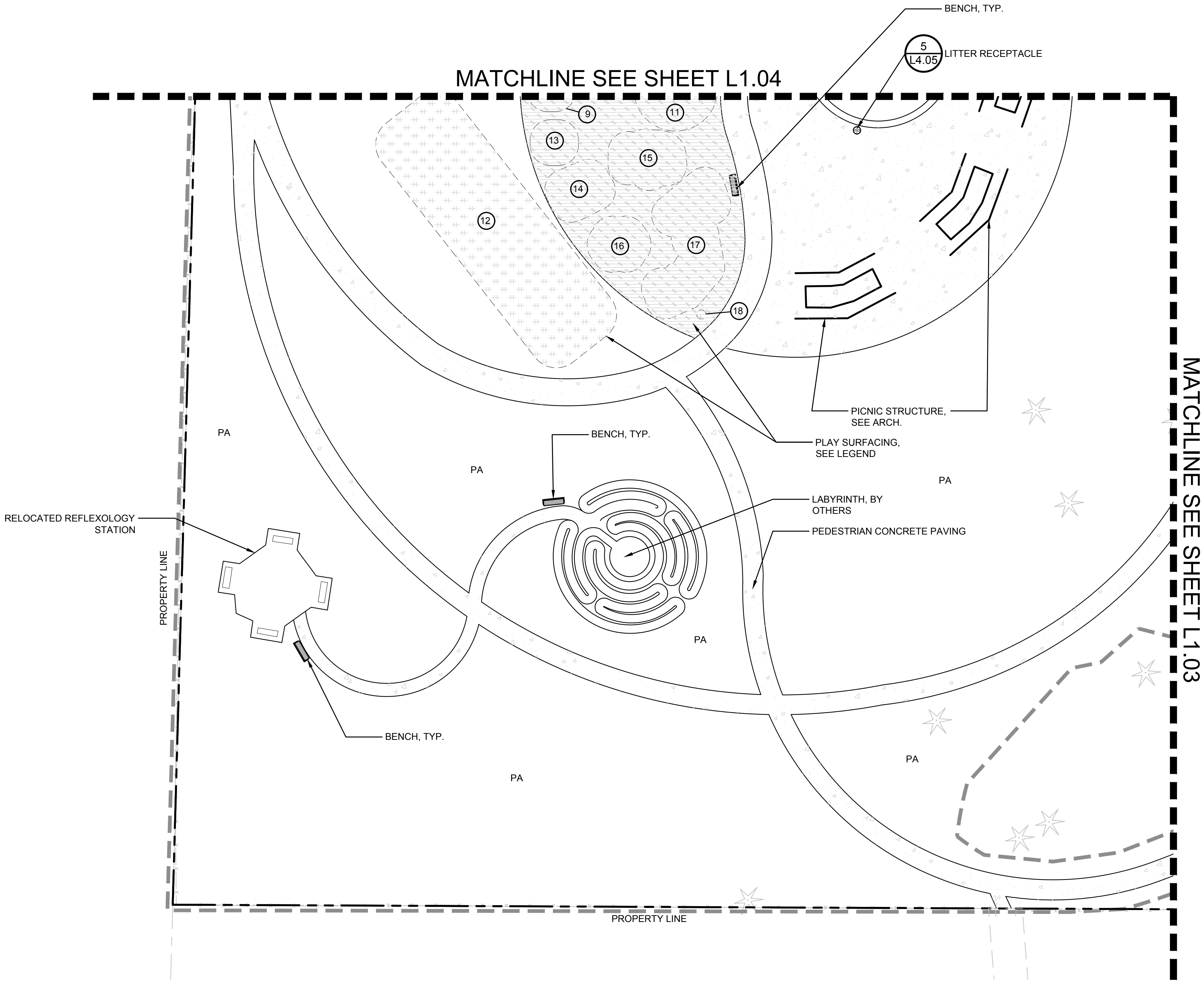
132ND SQUARE PARK
STORMWATER RETROFIT
MATERIALS PLAN

SHEET

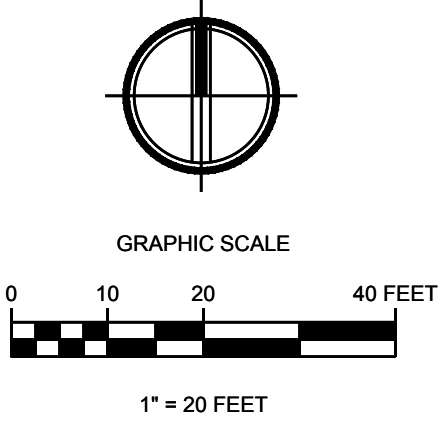
49

77

PLAY EQUIPMENT SCHEDULE		
EQUIP. #	MANUFACTURER	DESCRIPTION
1	KOMPAN	HILL CLIMBER
2	KOMPAN	METAL EMBANKMENT SLIDE
3	KOMPAN	HILL CLIMBER WITH EPDM
4	KOMPAN	ROBINIA SWING SET (2 STANDARD, 2 BABY, 1 SHELL NEST)
5	KOMPAN	DOUBLE TOWER DOUBLE SLIDE
6	KOMPAN	GAS PUMP
7	KOMPAN	XLYOPHONE PANEL
8	KOMPAN	PERCUSSION PANEL
9	KOMPAN	FOREST BUG SPRINGER
10	KOMPAN	WATER LILY BALANCE
11	KOMPAN	WHEELCHAIR CAROUSEL
12	KOMPAN	ZIPLINE
13	KOMPAN	SNAIL SPRING RIDER
14	KOMPAN	STILTS
15	ID SCULPTURE	HOME TREE
16	KOMPAN	UP AND OVER
17	KOMPAN	PARKOUR 4
18	KOMPAN	GAS PUMP



- LEGEND**
- EXISTING FENCE TO REMAIN
 - EXISTING TREES TO REMAIN
 - PA PLANTING AREA
 - LIMIT OF WORK
 - PROPERTY LINE
 - SITE WALL, SEE CIVIL
 - ENGINEERED WOOD FIBER
 - SYNTHETIC PLAY TURF



DWG. NO. **L1.05**



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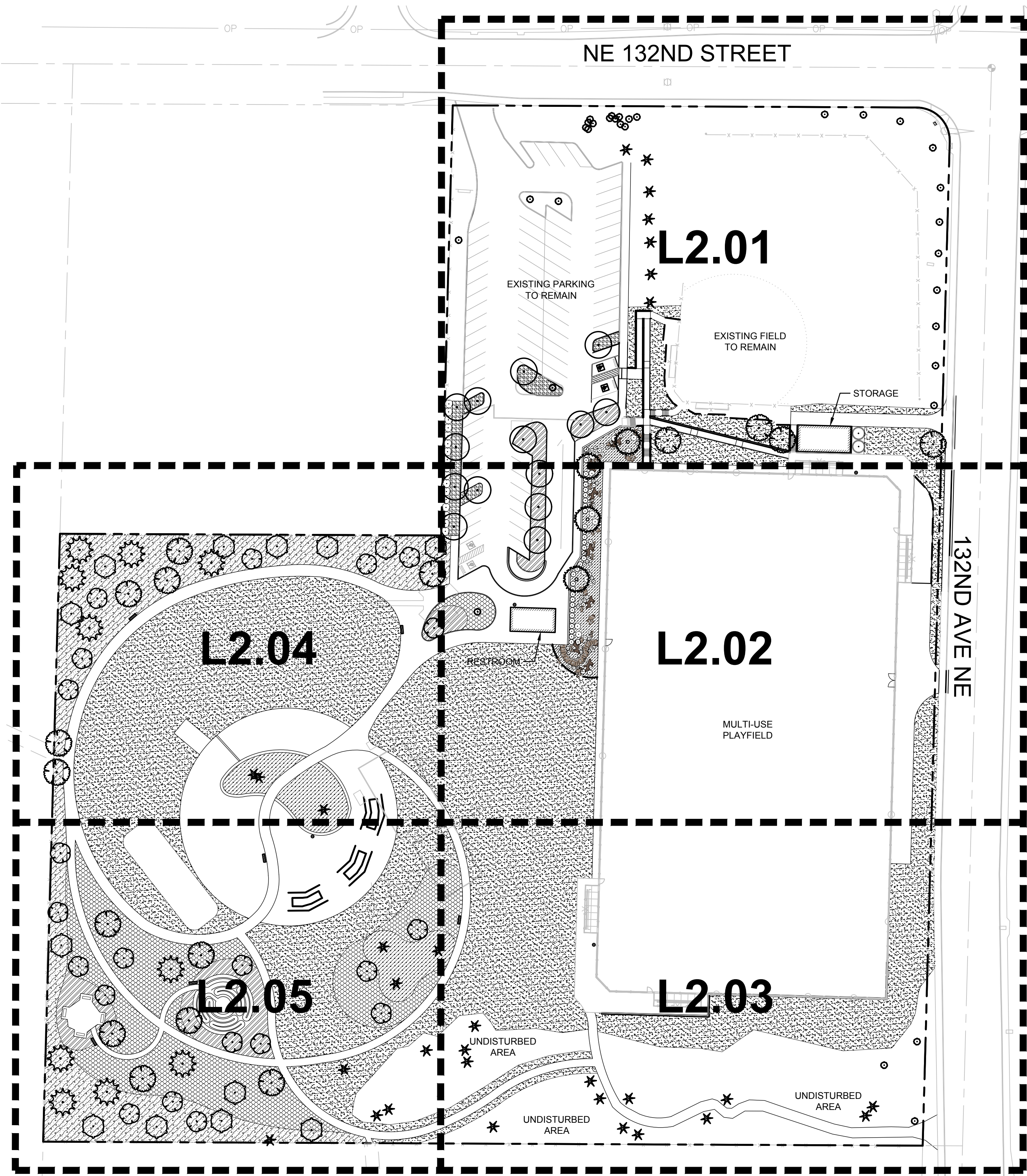


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2180804-SH-MATERIALS	BV	-	AS SHOWN	10/04/2019
NO.	REVISION		BY	REVIEW DATE

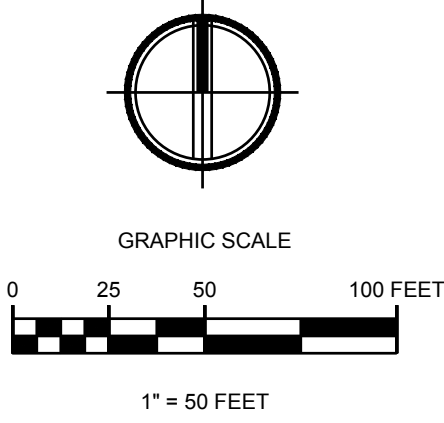


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132ND SQUARE PARK
STORMWATER RETROFIT
MATERIALS PLAN

SHEET
50
77



PLANT SCHEDULE				
SYMBOL	ABBREVIATION	COMMON NAME	SIZE	QTY
AC	ACOR CIRCINATUM	VINE MAPLE	1.5" CAL.	21
AP	ACOR TRUNCATUM PACIFIC SUNSET TM	PACIFIC SUNSET MAPLE	2" CAL. MIN.	14
CE	CORNUS KOLSA EDDIE'S WHITE WONDER	KOLSA DOGWOOD	1.5" CAL.	16
MG	METASEQUOIA GLYPTOSTROBILIS	DAWN REDWOOD	6" HT.	10
PC	PRUNUS CONTORTA CONFORTA	SHORE PINE	6" HT.	4
TG	THELIA PULCATA 'GREEN DANT'	WESTERN RED CEDAR	6" HT.	13
ES	EUONYMUS ALATUS 'COLES COMPACT'	BURNING BUSH	2 GAL.	17
MT2	MANHOTA REPERTS	CREeping MANHOTA	1 GAL.	36
PN3	POLYSTICHUM MONTANUM	WESTERN SWORD FERN	1 GAL.	32
RK	RIBES SANQUINEUM KING EDWARD VI	RED FLOWERING CURRANT	3 GAL.	36
TH	TAXUS X MEDIA 'HICKST'	HICKS YEW	6" HT. MIN.	2
VO	VACCINIUM OVATUM	EVERGREEN HUCKLEBERRY	3 GAL.	11
GROUND COVER				
GC1	GROUND COVER MIX	SALAL	2.5" PLUG	25,412 SF
GC2	GALL THIERIA SMALL ON	POLYSTICHUM MONTANUM	2.5" PLUG	38" x 6.1. 1,302
GC3	ORNA MENTAL SPUR MIX	WESTERN SWORD FERN	2.5" PLUG	38" x 6.1. 1,302
GC4	ADUL X 1.180 CRESSON	WESTERN SWORD FERN	1 GAL.	38" x 6.1. 238
GC5	CORNUS SERICEA 'KELSEY'	WESTERN SWORD FERN	1 GAL.	38" x 6.1. 238
GC6	ORNA MENTAL GROUND COVER MIX	WESTERN SWORD FERN	1 GAL.	38" x 6.1. 238
GC7	EPHELETA X VINYLENCE	WESTERN SWORD FERN	1 GAL.	38" x 6.1. 238
GC8	ERODEIO SPICATA	WESTERN SWORD FERN	1 GAL.	38" x 6.1. 238
GC9	MANHOTA REPERTS	WESTERN SWORD FERN	1 GAL.	38" x 6.1. 238
LS	LAWN	SOD	SOD	900 SF
LH	LAWN MIX HYDROSEED	HYDROSEED LAWN MIX	HYDROSEED	97,487 SF
MS	MULCH	SEE SPECIFICATION	MULCH	9,419 SF
PL	PRUNUS LAURICERASUS 'MOUNT VERNON'	MOUNT VERNON LAUREL	1 GAL.	24" x 6.1. 426

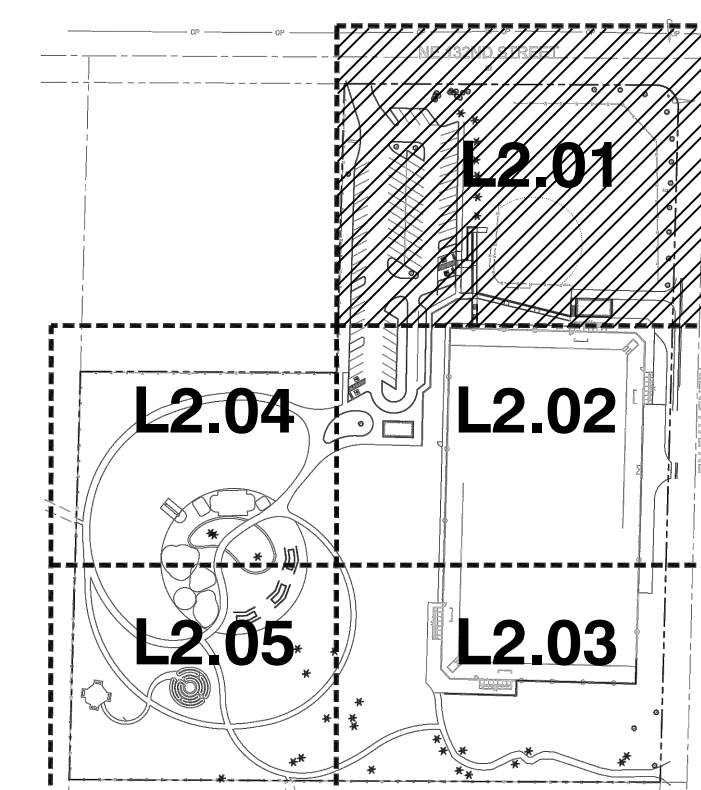


DWG. NO. **L2.00**






FILE	ENGR.	REVIEW	SCALE	DATE
2180804-SH-PLANTING	BV	-	AS SHOWN	10/04/2019
NO.	REVISION	BY	REVIEW	DATE

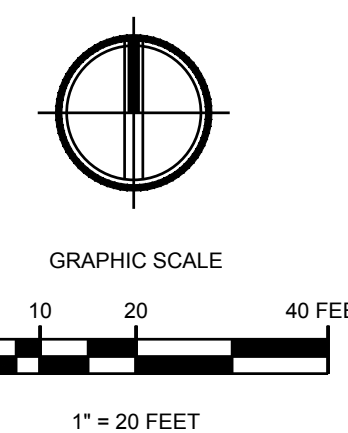


FEDERAL AID NO.



LEGEND

- | | |
|---|--------------------------|
|  | EXISTING FENCE TO REMAIN |
|  | EXISTING TREES TO REMAIN |
|  | LIMIT OF WORK |
|  | PROPERTY LINE |
|  | SITE WALL, SEE CIVIL |

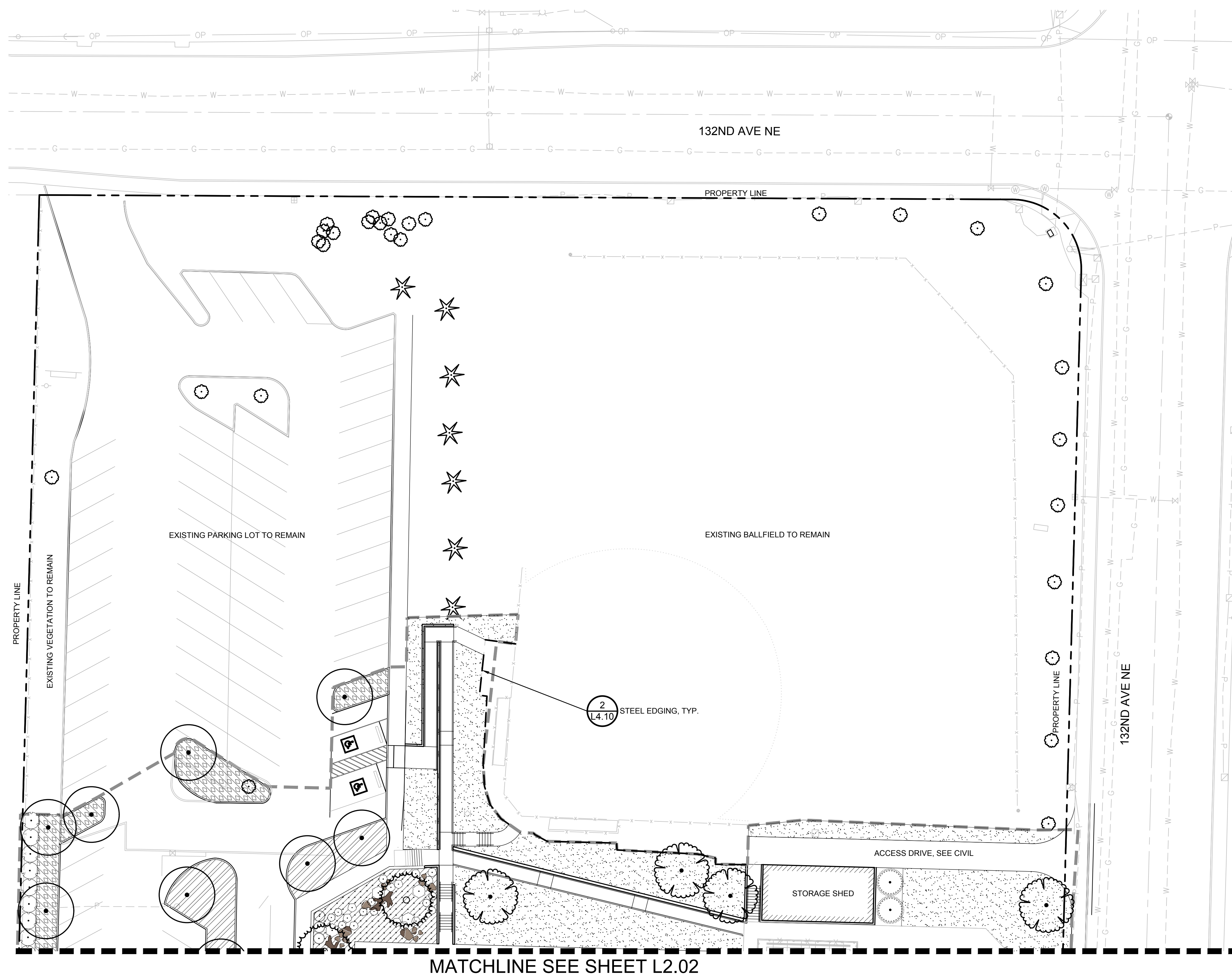


DWG. NO. **L2.01**

SHEET

52

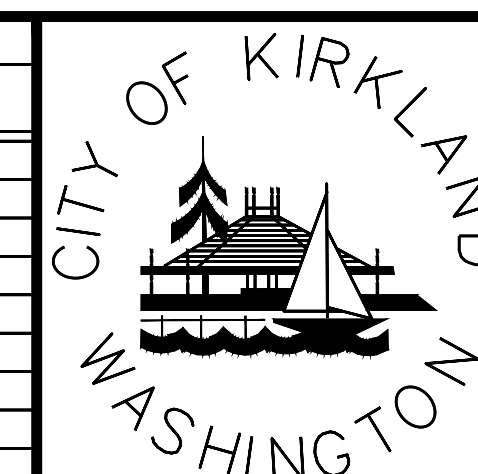
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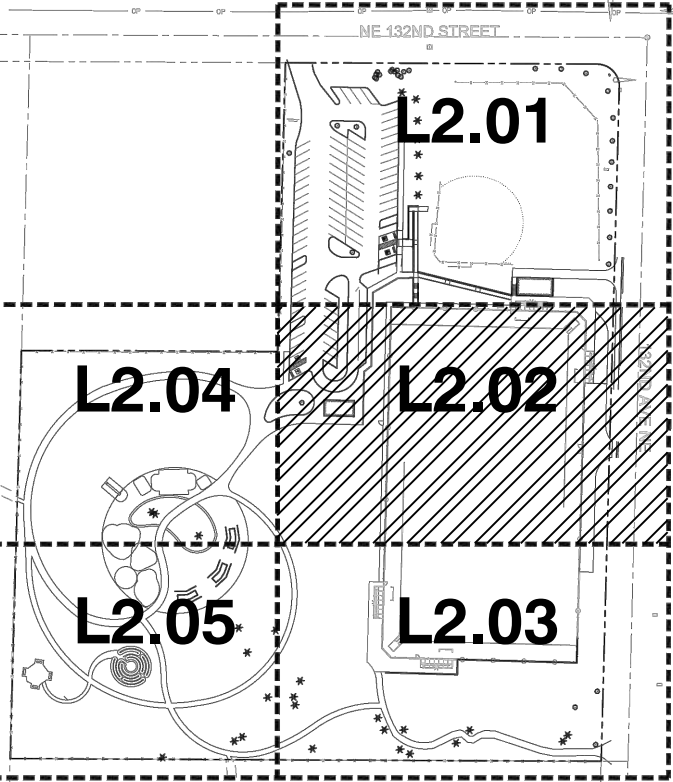
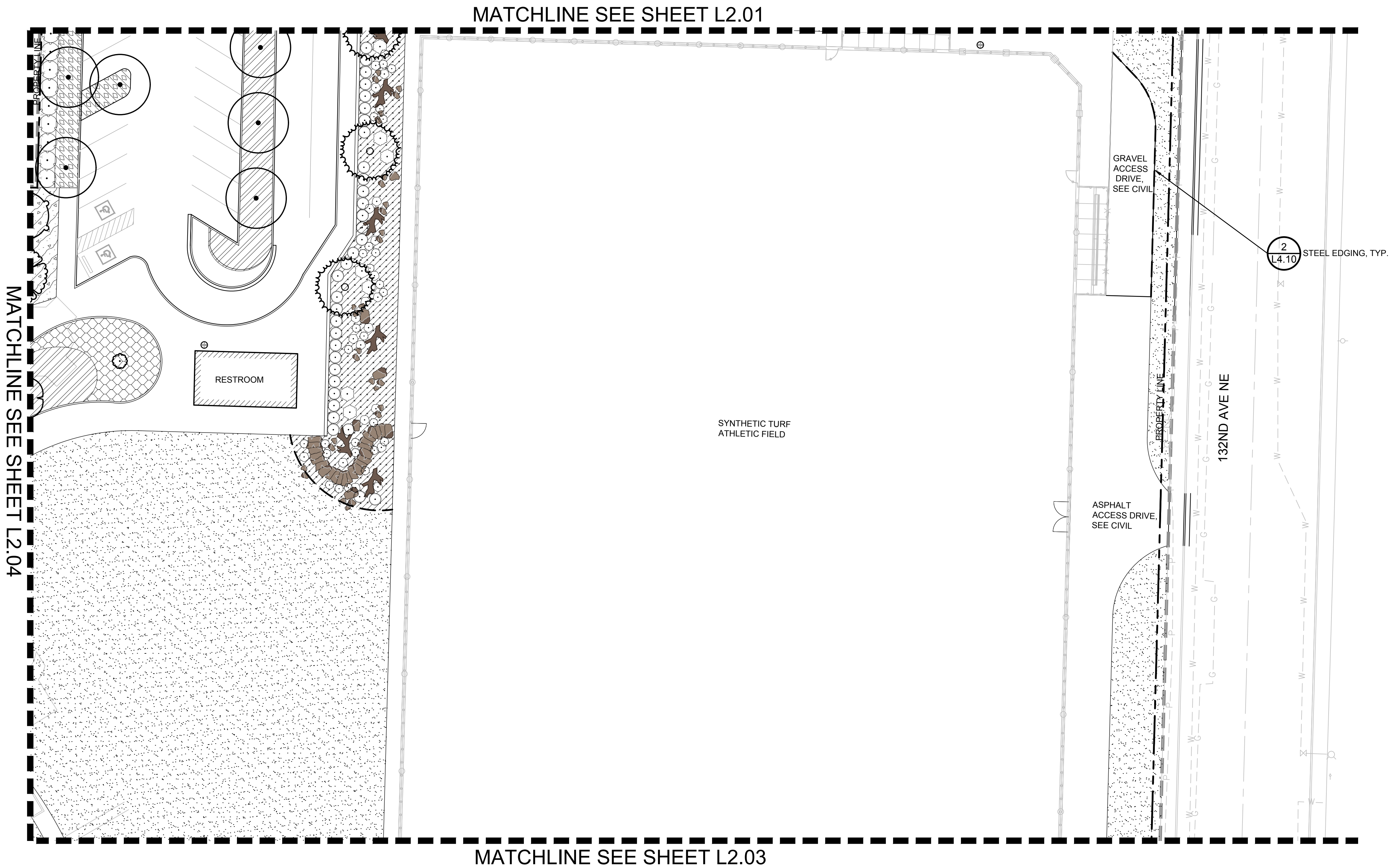


Know what's **below**.
Call before you dig.

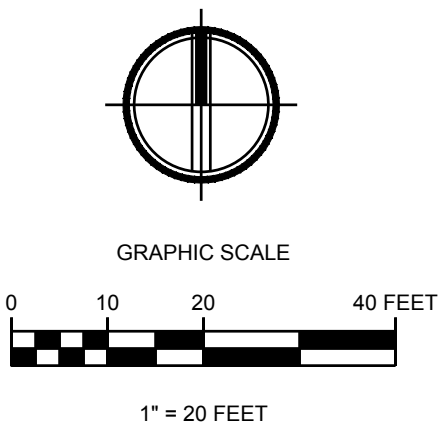
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123 FIFTH AVENUE – KIRKLAND, WA 98033-6189 – (425)587-3800

132ND SQUARE PARK
STORMWATER RETROFIT
PLANTING PLAN



- LEGEND**
- EXISTING FENCE TO REMAIN
 - EXISTING TREES TO REMAIN
 - LIMIT OF WORK
 - PROPERTY LINE
 - SITE WALL, SEE CIVIL



DWG. NO. **L2.02**



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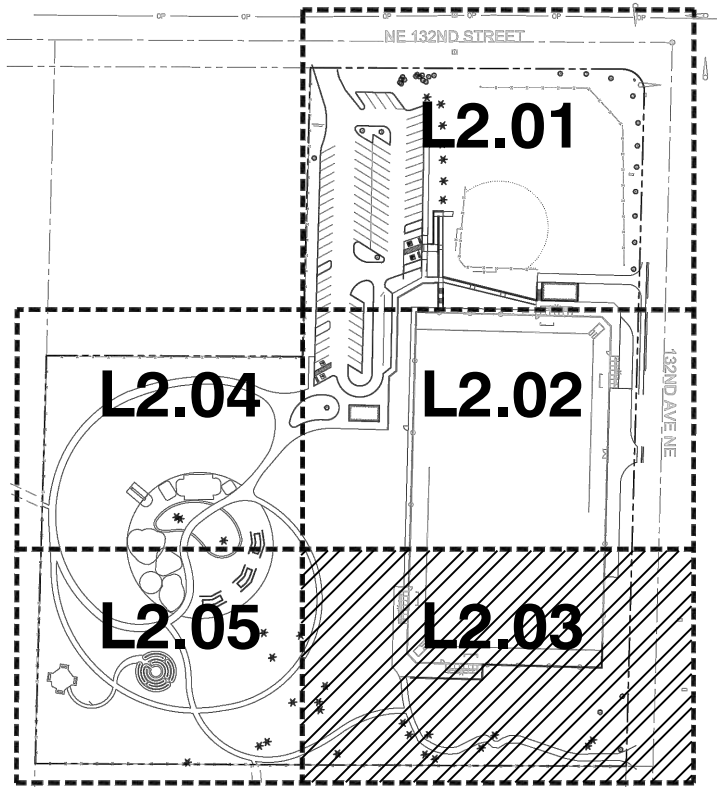
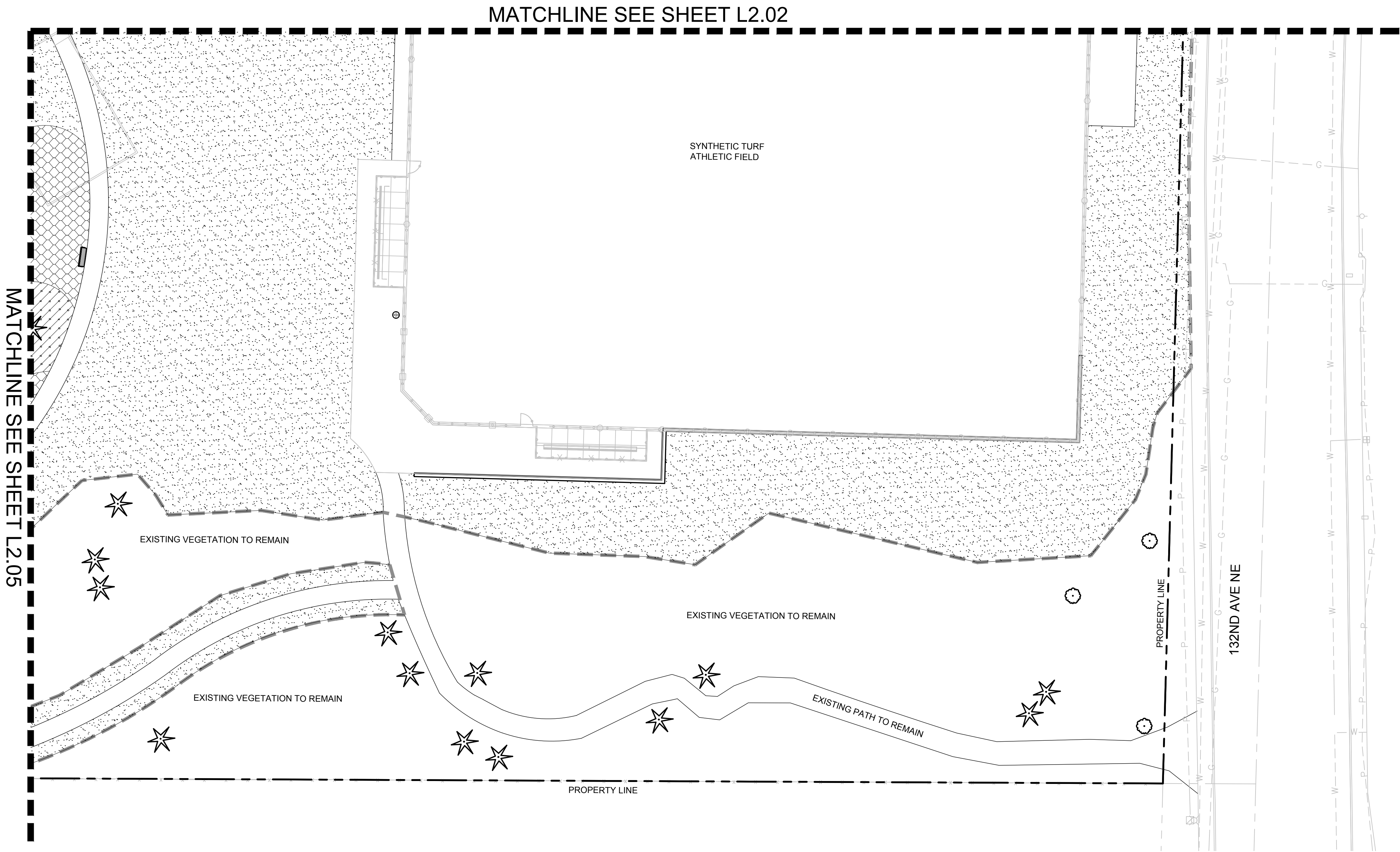


FILE	ENGR.	REVIEW	SCALE	DATE
2180804-SH-PLANTING	BV	—	AS SHOWN	10/04/2019
NO.	REVISION		BY	REVIEW DATE

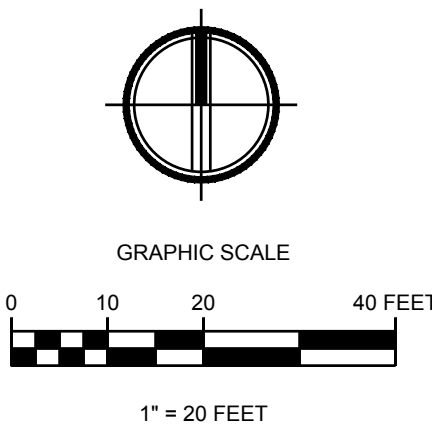


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132ND SQUARE PARK
STORMWATER RETROFIT
PLANTING PLAN

SHEET
53
77



- LEGEND**
- EXISTING FENCE TO REMAIN
 - EXISTING TREES TO REMAIN
 - LIMIT OF WORK
 - PROPERTY LINE
 - SITE WALL, SEE CIVIL



DWG. NO. **L2.03**



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FILE	ENGR.	REVIEW	SCALE	DATE
2180804-SH-PLANTING	BV	—	AS SHOWN	10/04/2019
NO.	REVISION		BY	REVIEW

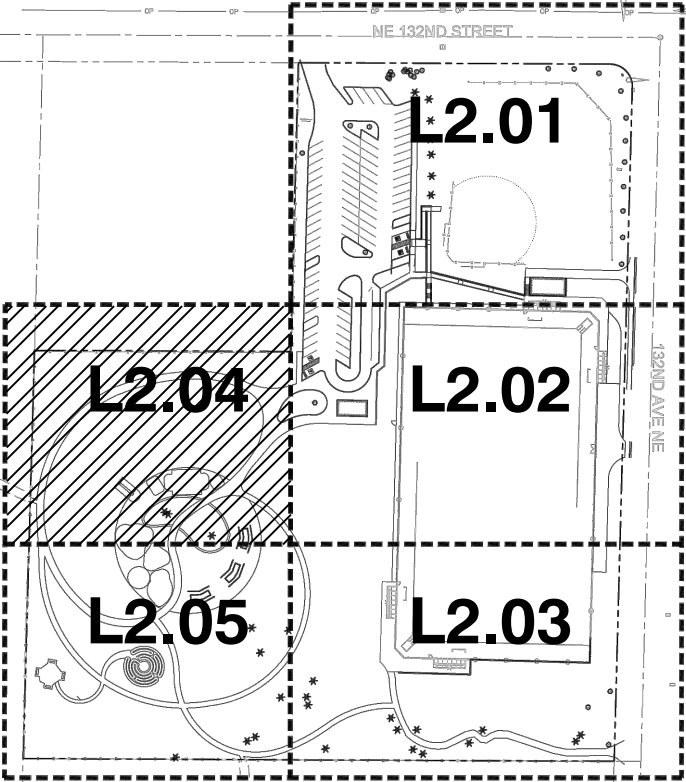


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STORMWATER RETROFIT
PLANTING PLAN

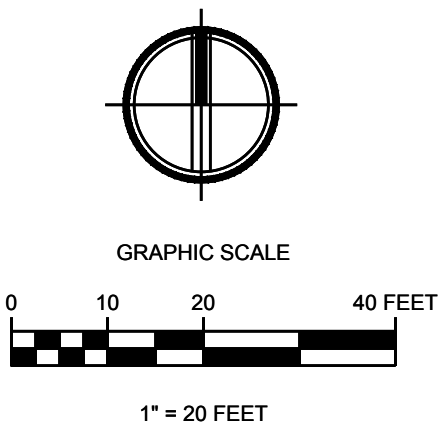
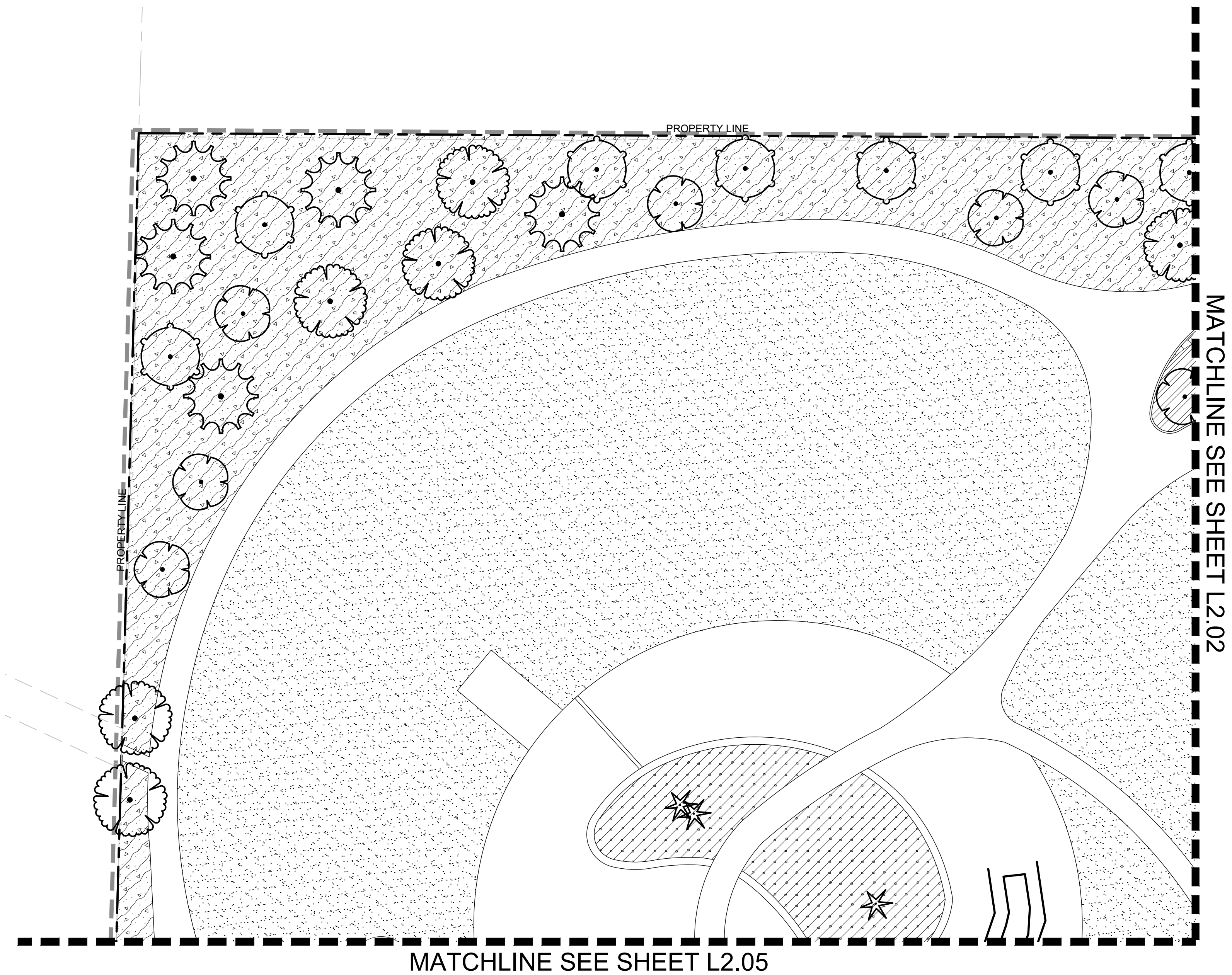
SHEET

54

77



- LEGEND**
- EXISTING FENCE TO REMAIN
 - EXISTING TREES TO REMAIN
 - LIMIT OF WORK
 - PROPERTY LINE
 - SITE WALL, SEE CIVIL



DWG. NO. **L2.04**



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FILE	ENGR.	REVIEW	SCALE	DATE
2180804-SH-PLANTING	BV	—	AS SHOWN	10/04/2019
NO.	REVISION		BY	REVIEW DATE

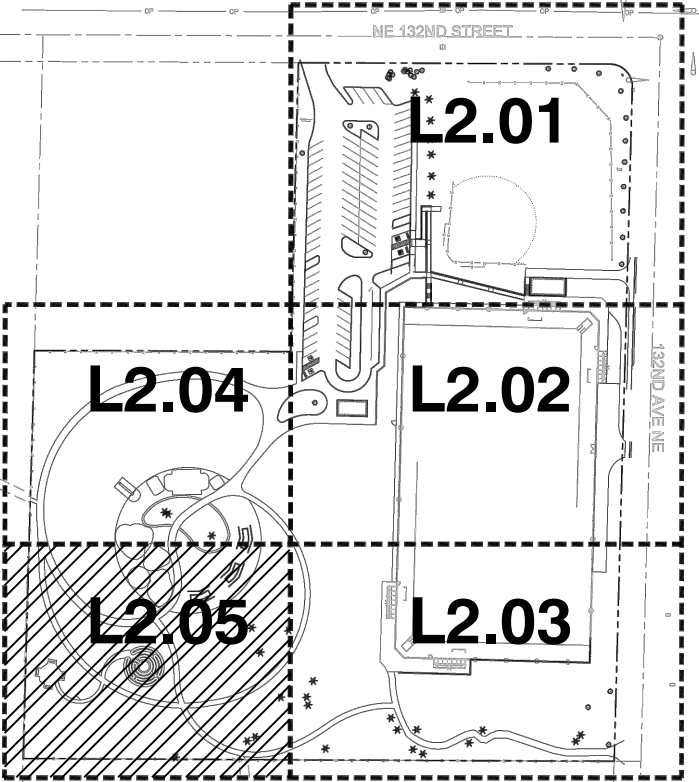


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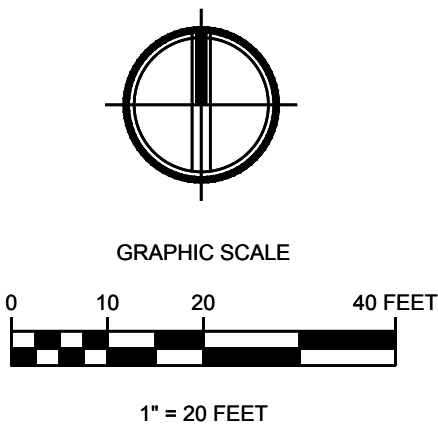
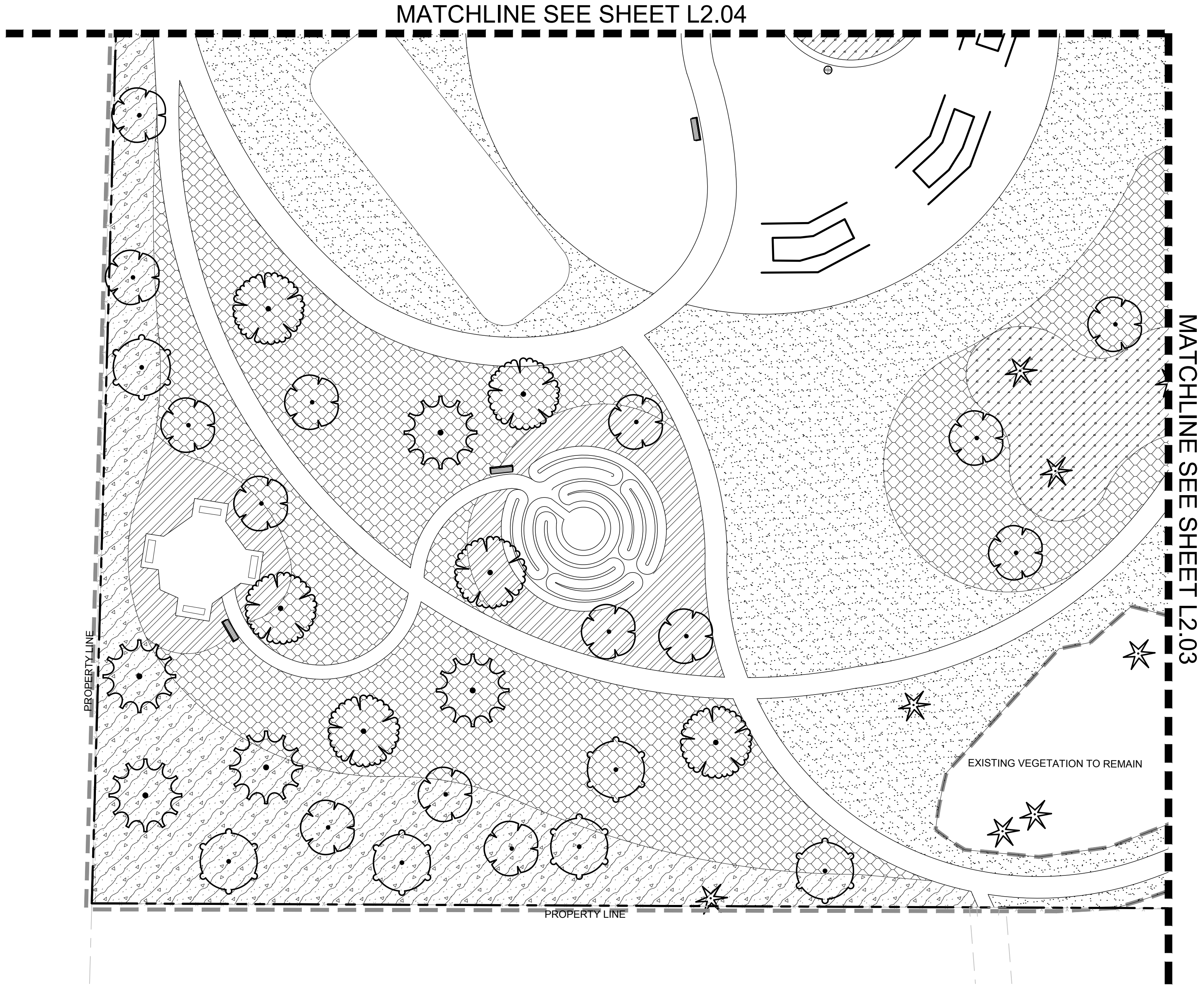
SHEET

55

77



- LEGEND**
- EXISTING FENCE TO REMAIN
 - EXISTING TREES TO REMAIN
 - LIMIT OF WORK
 - PROPERTY LINE
 - SITE WALL, SEE CIVIL



DWG. NO. **L2.05**



30% DESIGN SUBMITTAL
PRELIMINARY
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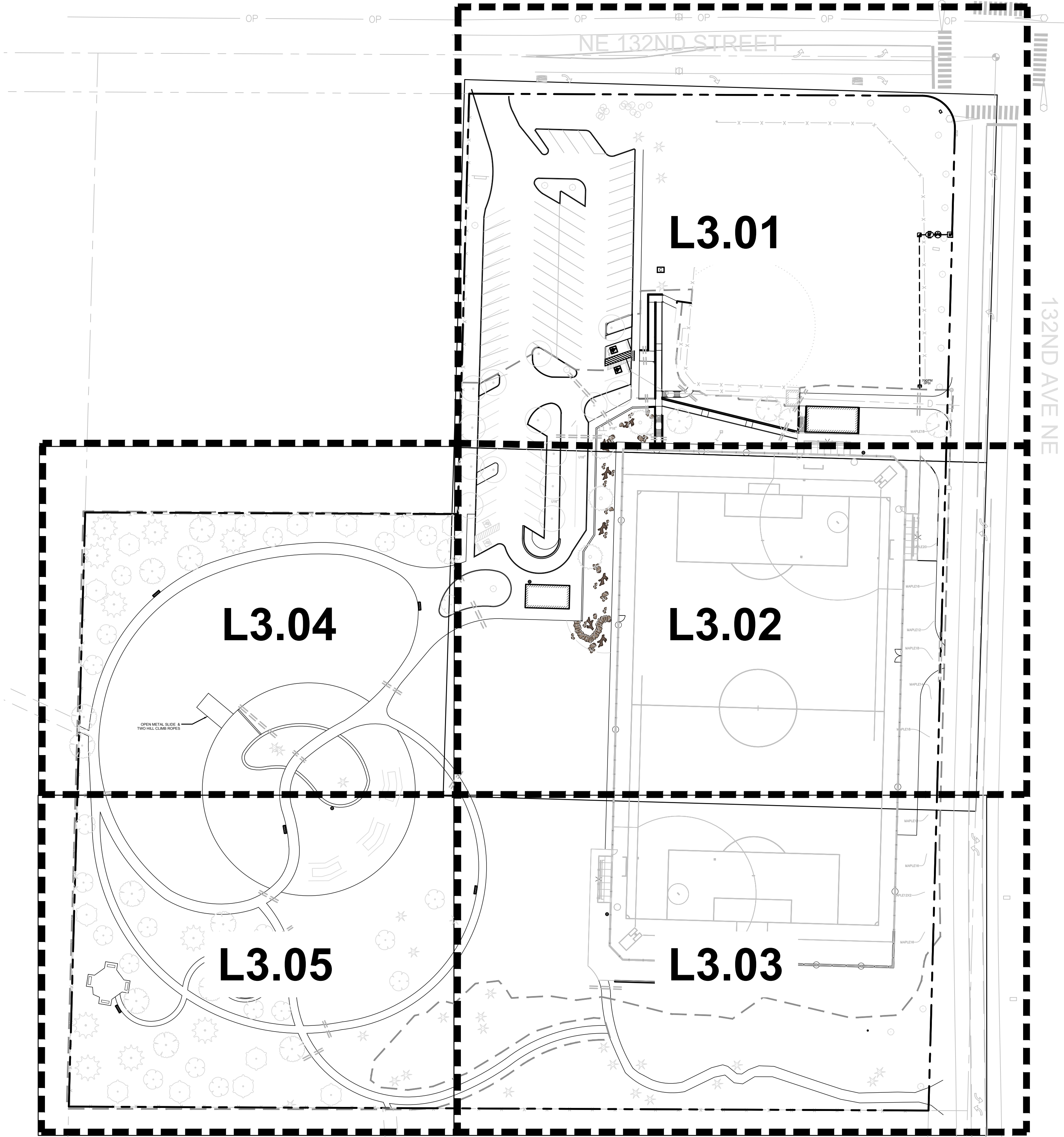


FILE	ENGR.	REVIEW	SCALE	DATE
2180804-SH-PLANTING	BV	—	AS SHOWN	10/04/2019
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CITY OF KIRKLAND
PUBLIC WORKS DEPARTMENT
123 FIFTH AVENUE — KIRKLAND, WA 98033—6189 — (425)587—3800
132ND SQUARE PARK
STORMWATER RETROFIT
PLANTING PLAN

SHEET
56
77






DWG. NO. **L3.00**


FILE	ENGR.	REVIEW	SCALE	DATE	
2180804-SH-IRRIGATION	BV	—	AS SHOWN	10/04/2019	
NO.	REVISION		BY	REVIEW	DATE



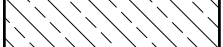
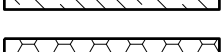





 EXISTING TREES TO REMAIN



 LIMIT OF WORK



 PROPERTY LINE


IRRIGATION SCHEDULE


<u>SYMBOL</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	SHRUB SPRAY	59,830 S.F.
	TURF ROTOR 15'-30"	79,153 S.F.
	TURF SPRAY	21,884 S.F.


SYMBOL **MANUFACTURER/DESCRIPTION**


 RAIN BIRD 3-RC
3/4" BRASS QUICK-COUPLING VALVE, WITH
CORROSION-RESISTANT STAINLESS STEEL SPRING,
THERMOPLASTIC RUBBER COVER, AND 1-PIECE BODY.

 CRANE GATE VALVE

 FEBCO 850 2"
DOUBLE CHECK BACKFLOW PREVENTION, 1/2" TO 2"

 RAIN BIRD RC-7A EXISTING CONTROLLER

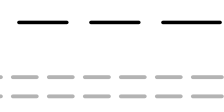
 CAP FOR FUTURE USE
CAP AT THE MAINLINE OR LATERAL LINE FOR FUTURE
USE. THE PRESSURE AND FLOW PROVIDED TO THAT
LOCATION ARE INDICATED NEXT TO THE CAP SYMBOL.

 WATER METER 2"
EXISTING METER

————— IRRIGATION MAINLINE: PVC SCHEDULE 40

----- PIPE SLEEVE: PVC SCHEDULE 40

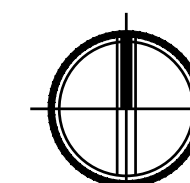
Valve Callout



Valve Number

Valve Flow

Valve Size



GRAPHIC SCALE



1" = 20 FEET

DWG. NO. **L3.01**



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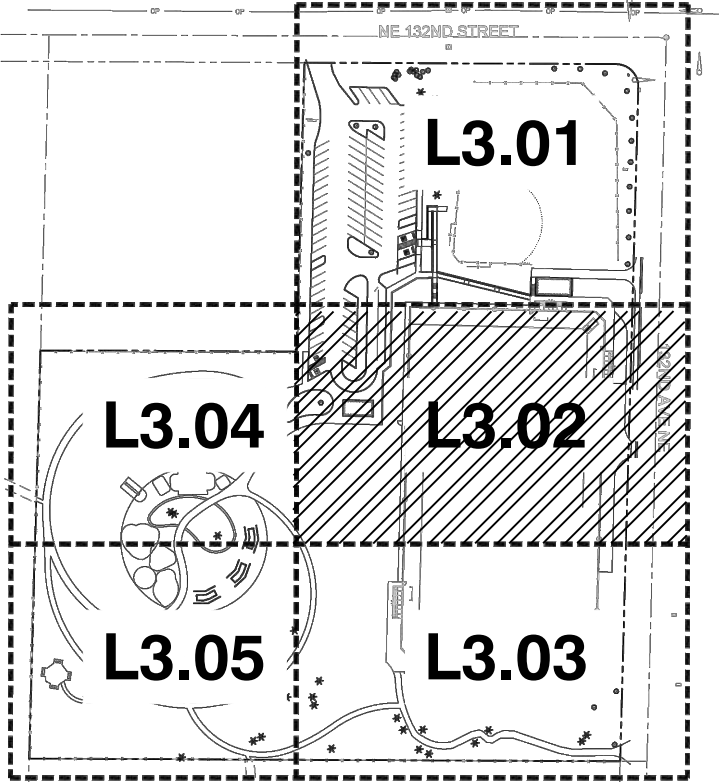
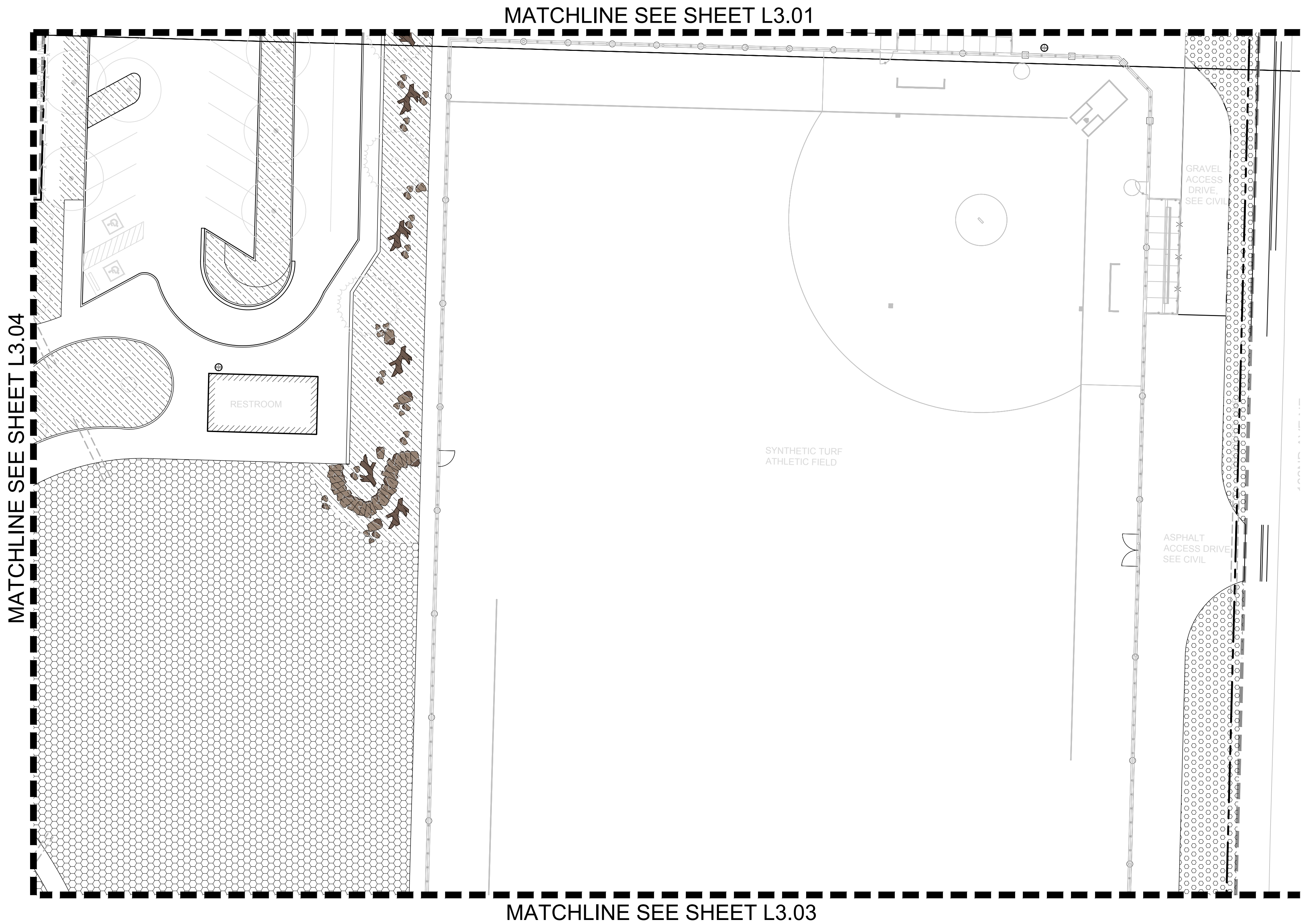
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**132ND SQUARE PARK
STORMWATER RETROFIT
IRRIGATION PLAN**

SHEET

58

77



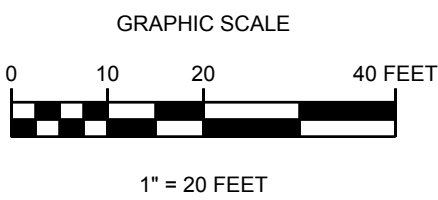
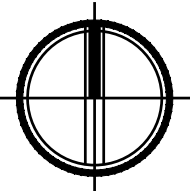
LEGEND

- EXISTING TREES TO REMAIN
- LIMIT OF WORK
- PROPERTY LINE

IRRIGATION SCHEDULE

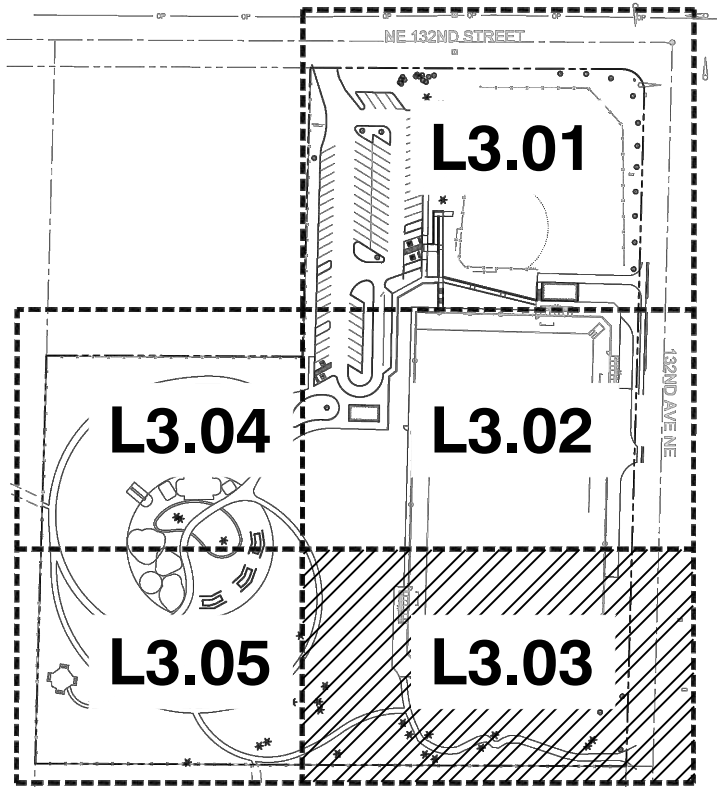
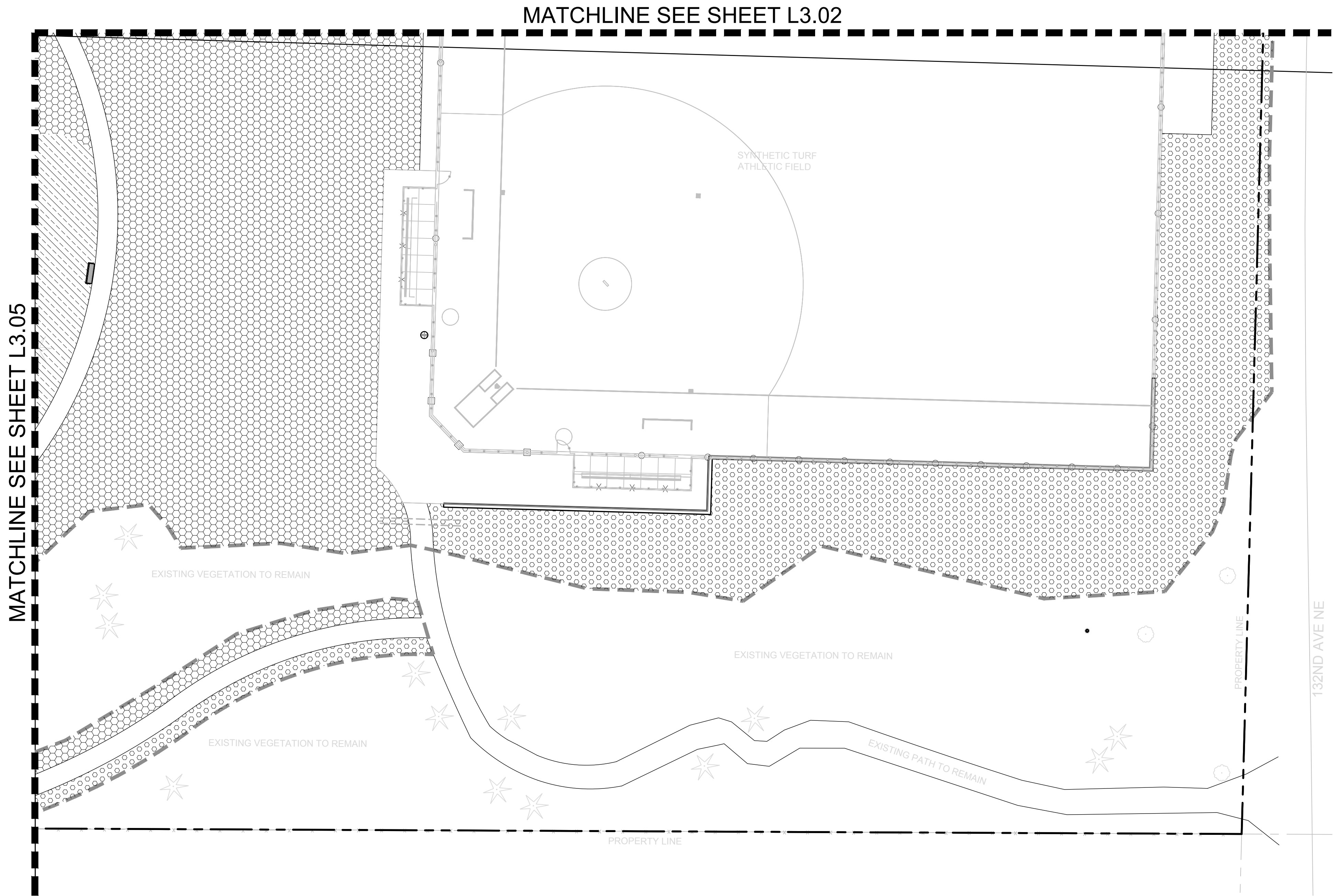
SYMBOL	DESCRIPTION	QTY
	SHRUB SPRAY	59,830 S.F.
	TURF ROTOR 15'-30'	79,153 S.F.
	TURF SPRAY	21,884 S.F.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	RAIN BIRD 3-RC 3/4" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, THERMOPLASTIC RUBBER COVER, AND 1-PIECE BODY.
	CRANE GATE VALVE
	FESCO 850 2" DOUBLE CHECK BACKFLOW PREVENTION, 1/2" TO 2"
	RAIN BIRD RC-7A EXISTING CONTROLLER
	CAP FOR FUTURE USE CAP AT THE MAINLINE OR LATERAL LINE FOR FUTURE USE. THE PRESSURE AND FLOW PROVIDED TO THAT LOCATION ARE INDICATED NEXT TO THE CAP SYMBOL.
	WATER METER 2" EXISTING METER
	IRRIGATION MAINLINE: PVC SCHEDULE 40
	PIPE SLEEVE: PVC SCHEDULE 40
	Valve Callout Valve Number Valve Flow Valve Size



DWG. NO. **L3.02**

FILE	ENGR.	REVIEW	SCALE	DATE
2180804-SH-IRRIGATION	BV	-	AS SHOWN	10/04/2019
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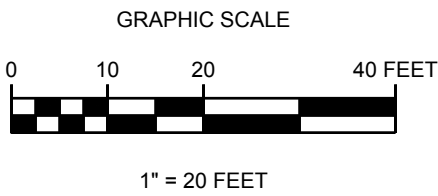
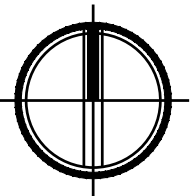
LEGEND

- EXISTING TREES TO REMAIN
- LIMIT OF WORK
- PROPERTY LINE

IRRIGATION SCHEDULE

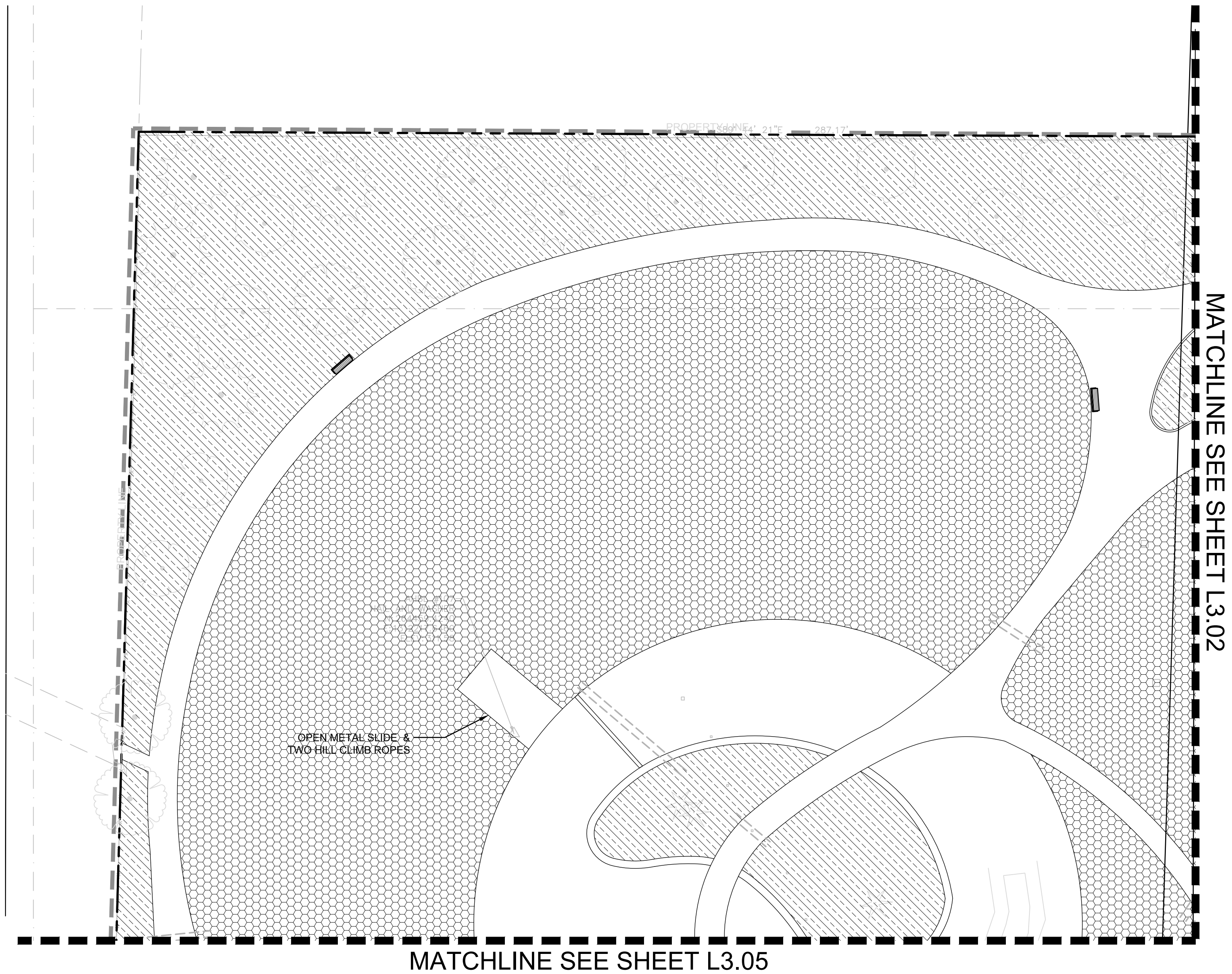
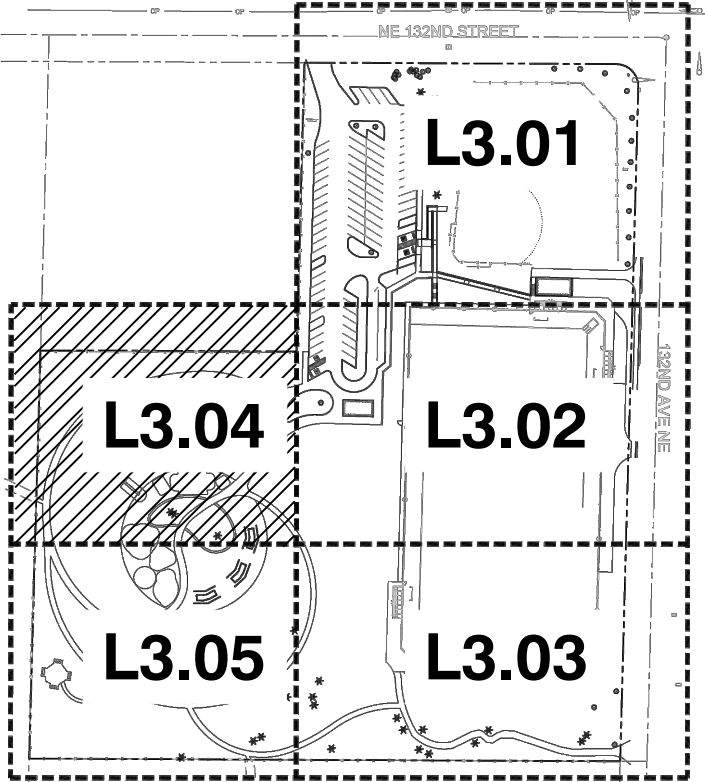
SYMBOL	DESCRIPTION	QTY
	SHRUB SPRAY	59,830 S.F.
	TURF ROTOR 15'-30'	79,153 S.F.
	TURF SPRAY	21,884 S.F.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
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	WATER METER 2" EXISTING METER
	IRRIGATION MAINLINE: PVC SCHEDULE 40
	PIPE SLEEVE: PVC SCHEDULE 40
	Valve Callout Valve Number Valve Flow Valve Size



DWG. NO. **L3.03**

FILE	ENGR.	REVIEW	SCALE	DATE
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NO.	REVISION	BY	REVIEW	DATE



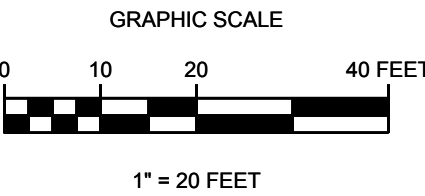
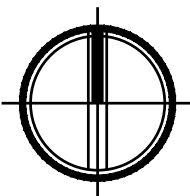
LEGEND

- EXISTING TREES TO REMAIN
- LIMIT OF WORK
- PROPERTY LINE

IRRIGATION SCHEDULE

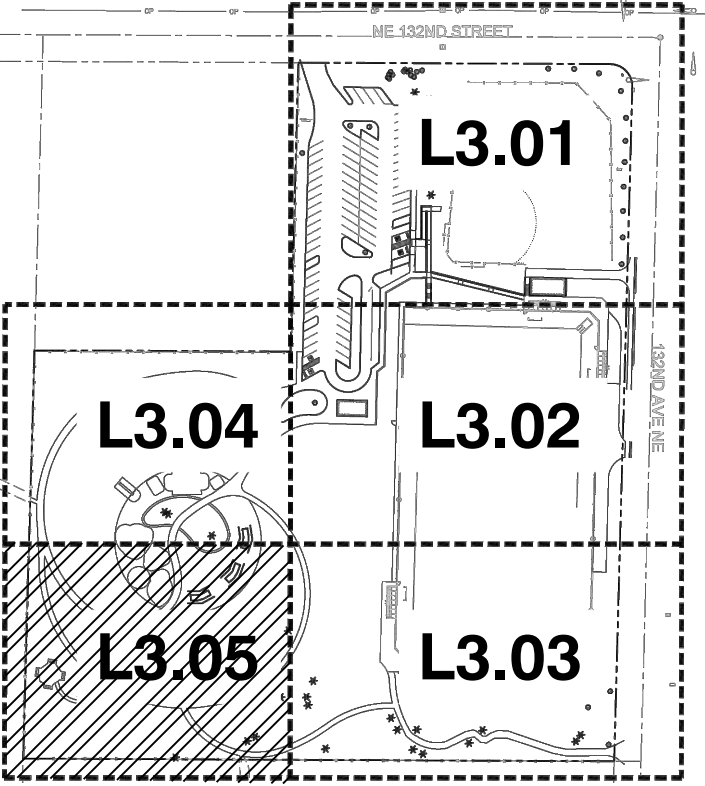
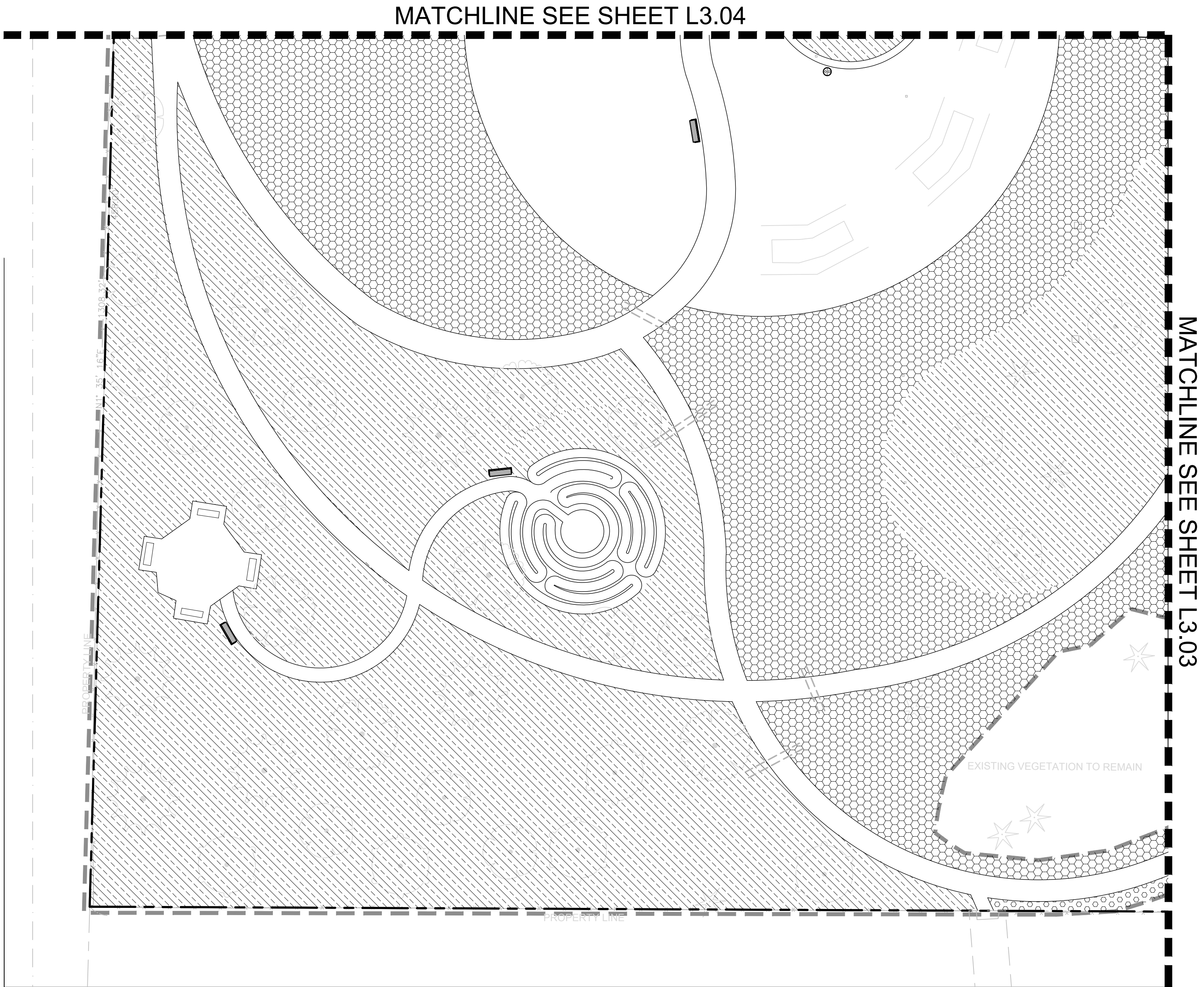
SYMBOL	DESCRIPTION	QTY
	SHRUB SPRAY	59,830 S.F.
	TURF ROTOR 15'-30'	79,153 S.F.
	TURF SPRAY	21,884 S.F.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	RAIN BIRD 3-RC 3/4" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, THERMOPLASTIC RUBBER COVER, AND 1-PIECE BODY.
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	WATER METER 2" EXISTING METER
	IRRIGATION MAINLINE: PVC SCHEDULE 40
	PIPE SLEEVE: PVC SCHEDULE 40
	Valve Callout Valve Number Valve Flow Valve Size



DWG. NO. **L3.04**

FILE	ENGR.	REVIEW	SCALE	DATE
2180804-SH-IRRIGATION	BV	—	AS SHOWN	10/04/2019
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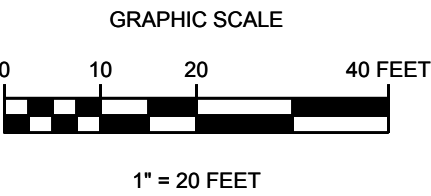
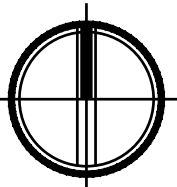
LEGEND

- EXISTING TREES TO REMAIN
- LIMIT OF WORK
- PROPERTY LINE

IRRIGATION SCHEDULE

SYMBOL	DESCRIPTION	QTY
	SHRUB SPRAY	59,830 S.F.
	TURF ROTOR 15'-30'	79,153 S.F.
	TURF SPRAY	21,884 S.F.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	RAIN BIRD 3-RC 3/4" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, THERMOPLASTIC RUBBER COVER, AND 1-PIECE BODY.
	CRANE GATE VALVE
	FEBCO 850 2" DOUBLE CHECK BACKFLOW PREVENTION, 1/2" TO 2"
	RAIN BIRD RC-7A EXISTING CONTROLLER
	CAP FOR FUTURE USE CAP AT THE MAINLINE OR LATERAL LINE FOR FUTURE USE. THE PRESSURE AND FLOW PROVIDED TO THAT LOCATION ARE INDICATED NEXT TO THE CAP SYMBOL.
	WATER METER 2" EXISTING METER
	IRRIGATION MAINLINE: PVC SCHEDULE 40
	PIPE SLEEVE: PVC SCHEDULE 40
	Valve Callout Valve Number Valve Flow Valve Size



DWG. NO. **L3.05**



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2180804-SH-IRRIGATION	BV	-	AS SHOWN	10/04/2019
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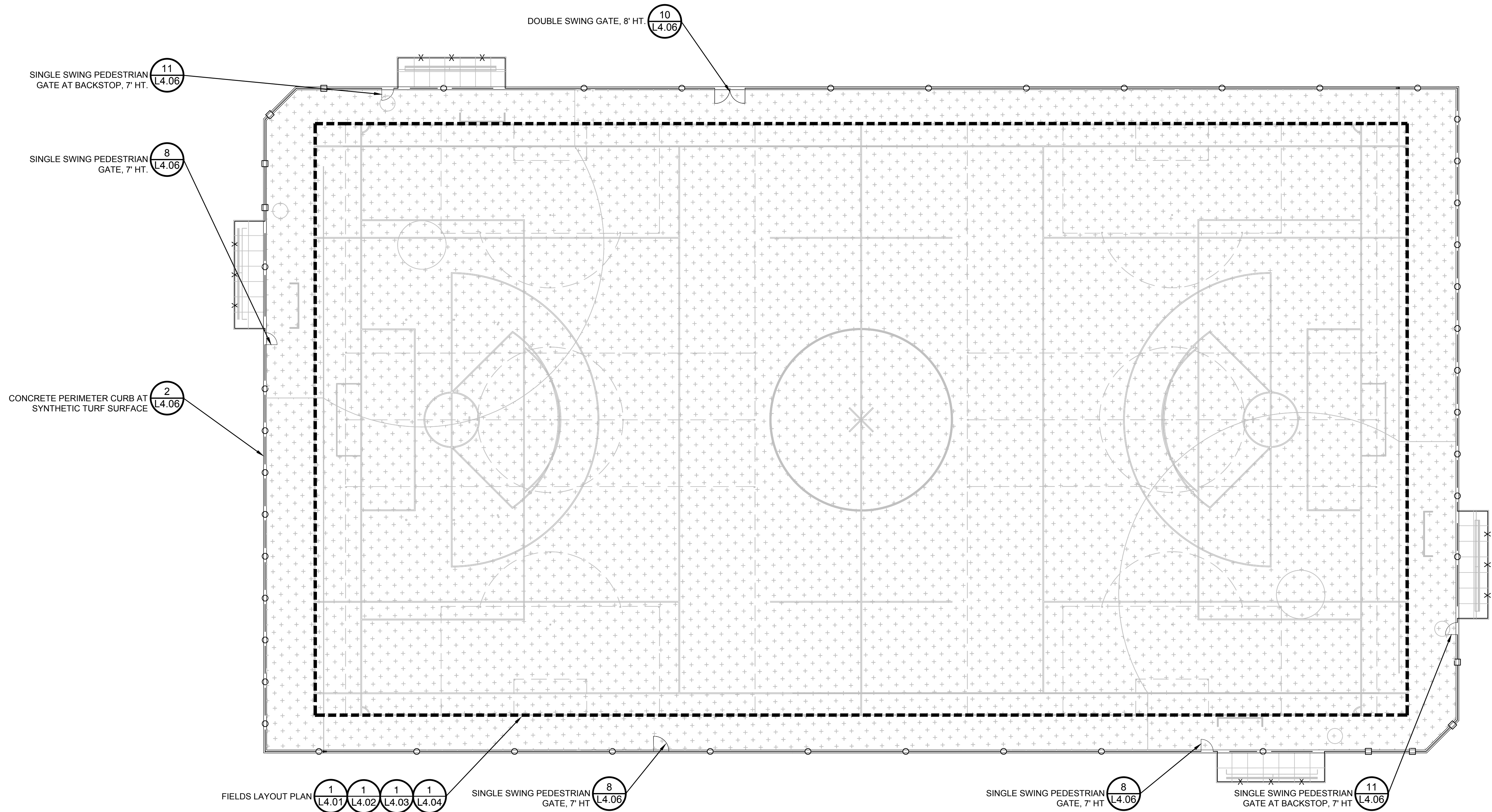


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IRRIGATION PLAN

SHEET

62

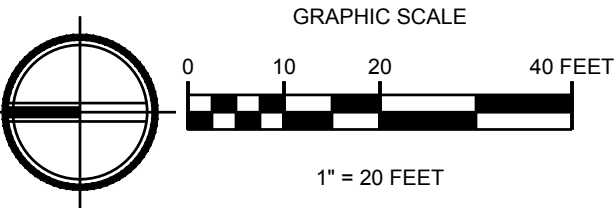
77



LEGEND

	CHAIN LINK FENCE, 20' HT.	8 L4.06
	CHAIN LINK FENCE, 12' HT.	8 L4.06
	CHAIN LINK FENCE, 8' HT.	8 L4.06
	CHAIN LINK FENCE, 6' HT.	8 L4.06
	SYNTHETIC TURF SURFACE	1 L4.06

1 SYNTHETIC TURF FIELD



DWG. NO. **L4.00**

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Call before you dig.

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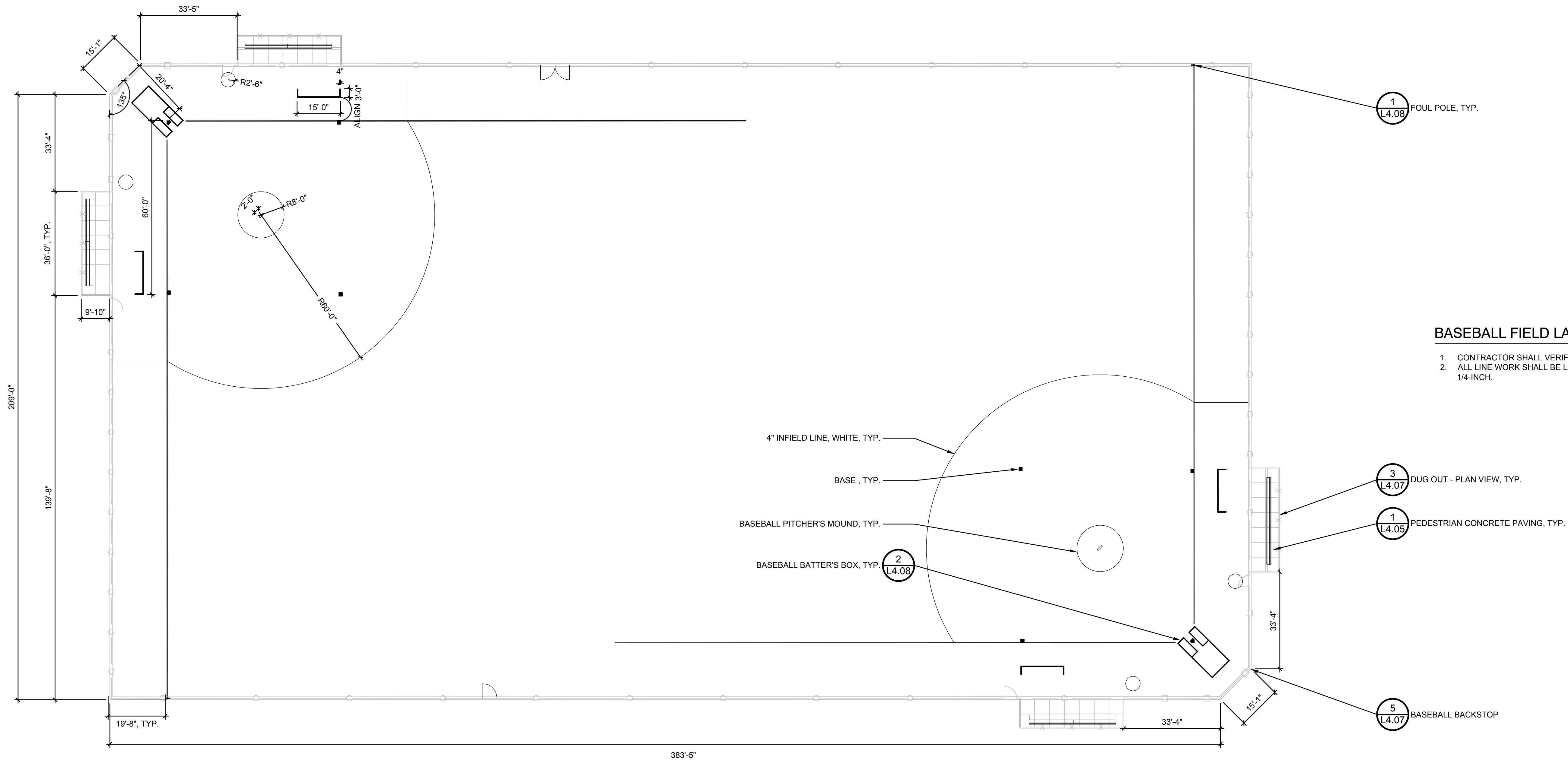


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FIELDS LAYOUT PLAN

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63

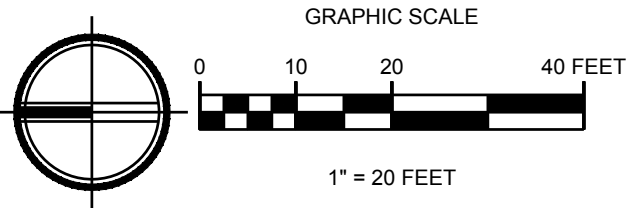
77



BASEBALL FIELD LAYOUT - NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS.
2. ALL LINE WORK SHALL BE LAID OUT WITH A TOLERANCE OF 1/4-INCH.

1 BASEBALL FIELDS LAYOUT PLAN



DWG. NO. **L4.01**



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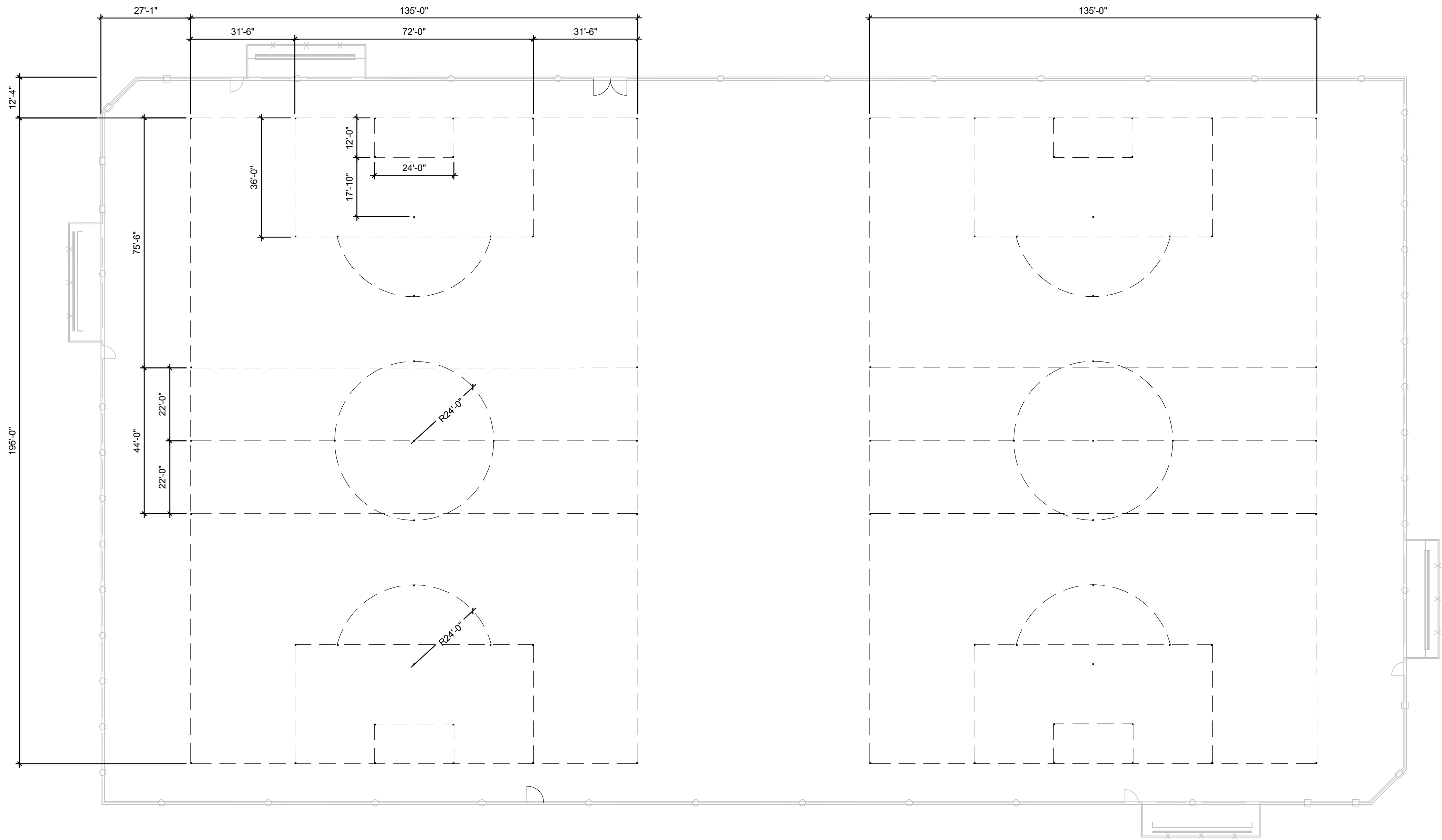


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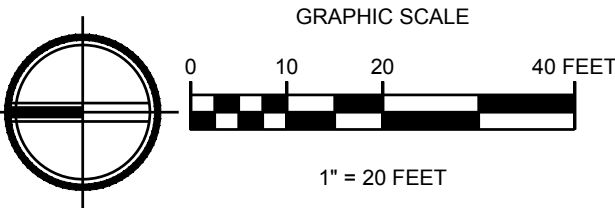
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SOCCER FIELD LAYOUT - NOTES

1. CONTRACTOR SHALL REFER TO PLAN FOR LINE LOCATIONS AND VERIFY ALL DIMENSIONS. ALL LINE WORK SHALL BE LAID OUT WITH A TOLERANCE OF 1/4-INCH.
2. BOTH YOUTH FIELDS ARE IDENTICAL IN ALL DIMENSIONS.
3. LINES SHOWN FOR REFERENCE ONLY. INSTALL 4" X 4" BLACK TICK MARKS AS SHOWN TO LOCATE TEMPORARY SEASONAL PAINT LINES.
4. THE PENALTY MARK SHALL BE A 2 FOOT LINE, 4 INCHES WIDE, 36 FEET FROM THE END LINE AND CENTERED ON THE GOAL. THE RESTRAINING LINE FOR THE PENALTY KICK SHALL BE MEASURED FROM THIS MARK WITH A 30ARC LOCATED OUTSIDE THE PENALTY AREA.
5. THE TWO OUTSIDE CORNERS OF EACH YOUTH FIELD SHALL ALIGN WITH THE CORNERS OF THE MIDDLE FIELD SOCCER FIELD.
6. EACH CORNER OF THE FIELD SHALL HAVE A 4-INCH WIDE HASH MARK 3 FEET IN LENGTH BEYOND THE GOAL LINE THAT IS LOCATED 33 FEET FROM THE TOUCH LINE.

1 YOUTH SOCCER FIELDS LAYOUT PLAN



DWG. NO. **L4.02**



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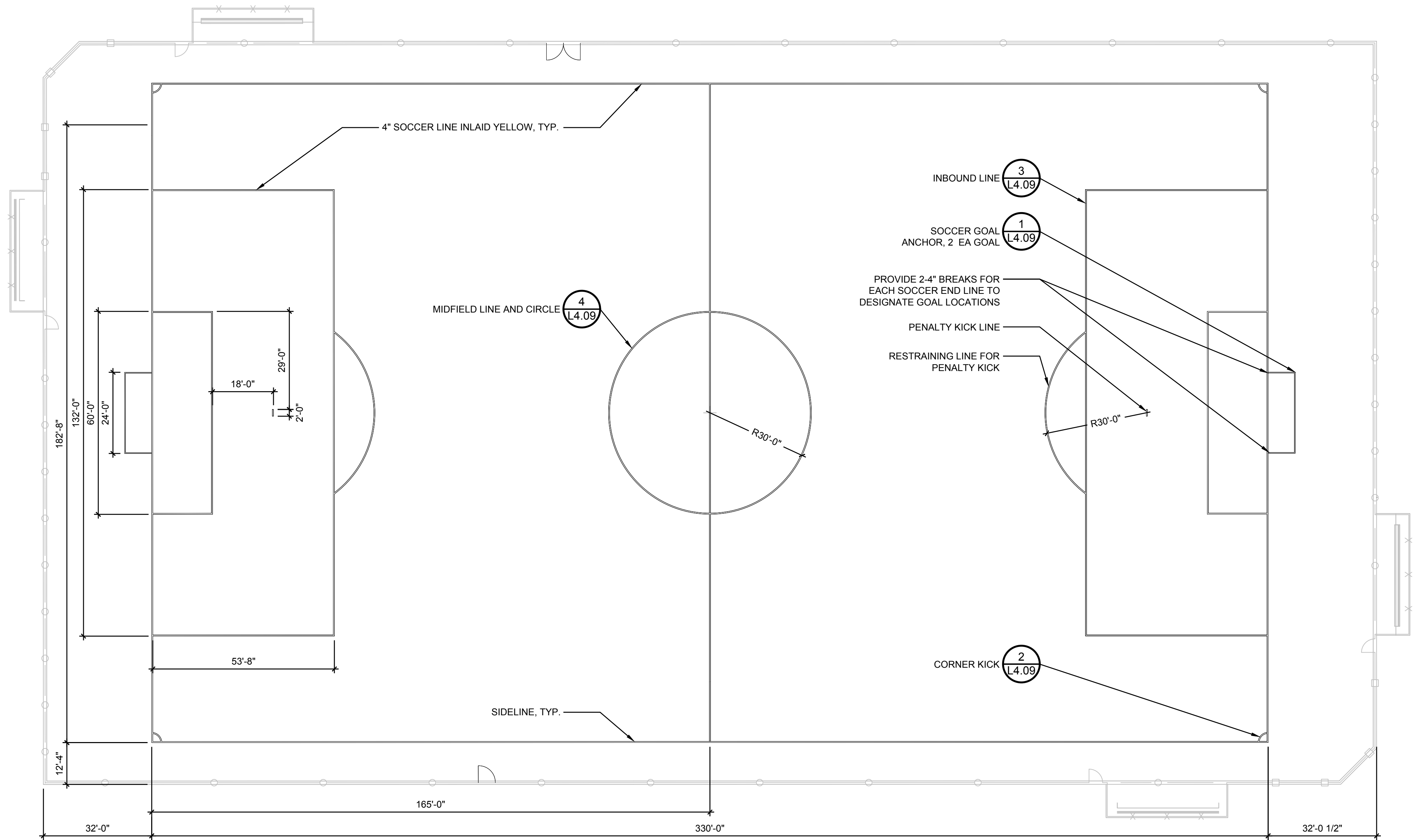


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FIELDS LAYOUT PLAN

SHEET

65

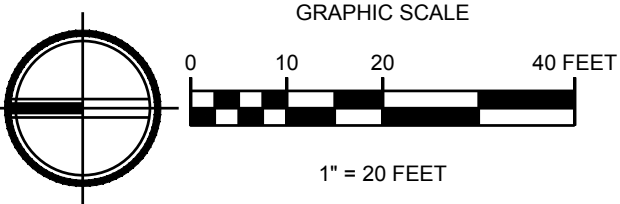
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SOCCER FIELD LAYOUT - NOTES

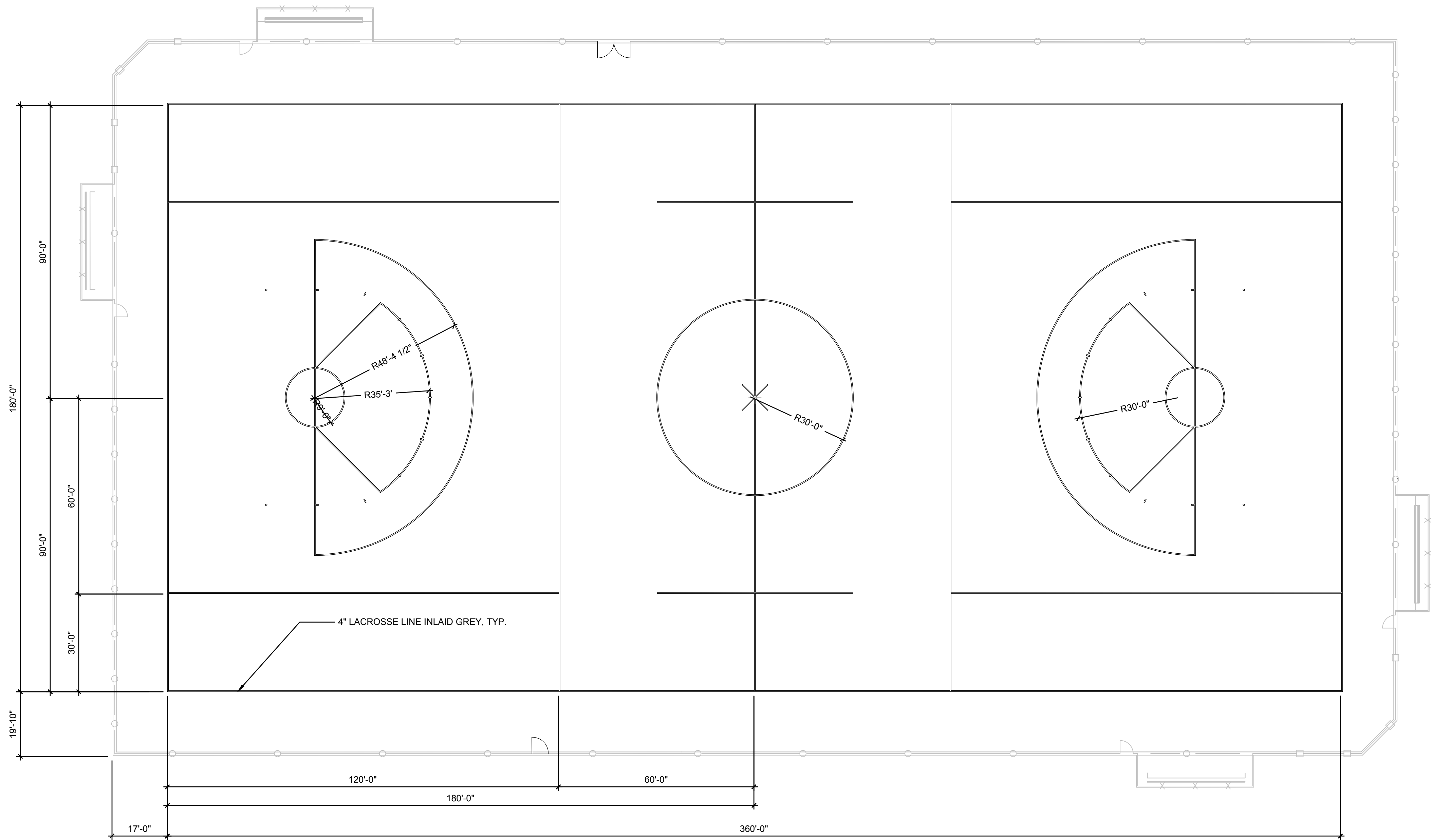
1. CONTRACTOR SHALL REFER TO PLAN FOR LINE LOCATIONS AND VERIFY ALL DIMENSIONS. ALL LINE WORK SHALL BE LAID OUT WITH A TOLERANCE OF 1/4-INCH.
2. THE SOCCER GOAL AREA SHALL MEASURE 18 FEET BY 60 FEET AND THE SOCCER PENALTY AREA SHALL BE 54 FEET BY 132 FEET.
3. THE PENALTY MARK SHALL BE A 2 FOOT LINE, 4 INCHES WIDE, 36 FEET FROM THE END LINE AND CENTERED ON THE GOAL. THE RESTRAINING LINE FOR THE PENALTY KICK SHALL BE MEASURED FROM THIS MARK WITH A 30'ARC LOCATED OUTSIDE THE PENALTY AREA.
4. THE HALFWAY LINE FOR THE SOCCER FIELD SHALL BE A 4-INCH YELLOW INLAID LINE WITH A 60 FOOT DIAMETER CIRCLE IN THE CENTER OF THE FIELD.
5. EACH CORNER OF THE SOCCER FIELD SHALL HAVE A 3 FOOT RADIUS INLAID WITH 4 INCHES OF YELLOW TURF TO DESIGNATE THE CORNER KICK AREA.
6. EACH CORNER OF THE FIELD SHALL HAVE A 4-INCH WIDE HASH MARK 3 FEET IN LENGTH BEYOND THE GOAL LINE THAT IS LOCATED 33 FEET FROM THE TOUCH LINE.

1 SOCCER FIELD LAYOUT PLAN



DWG. NO. **L4.03**

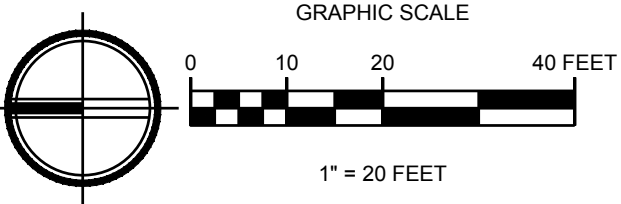
FILE	ENGR.	REVIEW	SCALE	DATE
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LACROSSE FIELD LAYOUT - NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PER US LACROSSE UNIFIED HS FIELD STANDARDS.
2. ALL LINE WORK SHALL BE LAID OUT WITH A TOLERANCE OF 1/4-INCH.
3. MID-FIELD LINES SHALL BE HELD 1'0" FROM THE SCHOOL LOGO.
4. ALL LACROSSE FIELD LINES SHALL BE 4-INCH TUFTED INTO TURF PANELS.

1 LACROSSE - UNIFIED GIRLS AND BOYS FIELD LAYOUT PLAN



DWG. NO. **L4.04**



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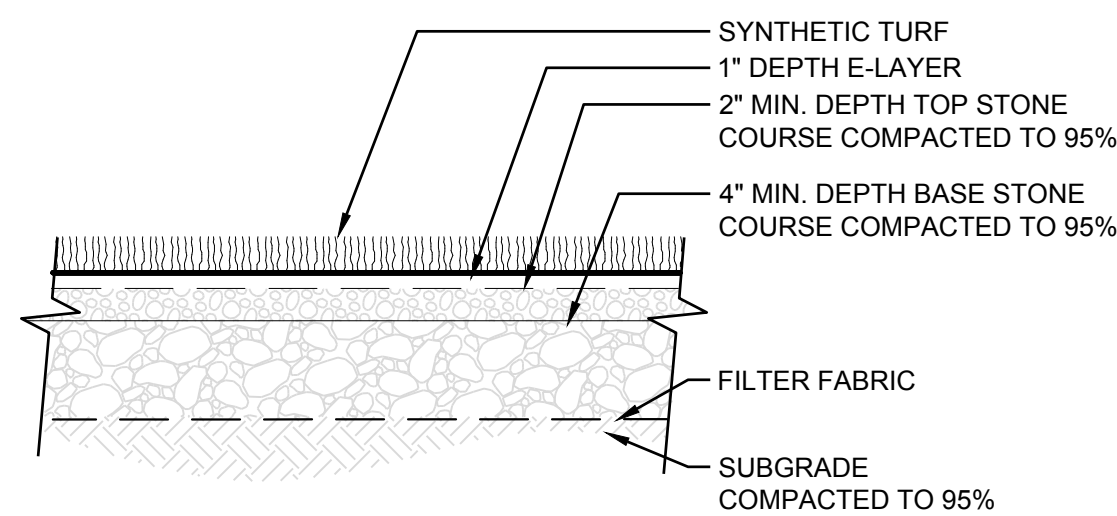


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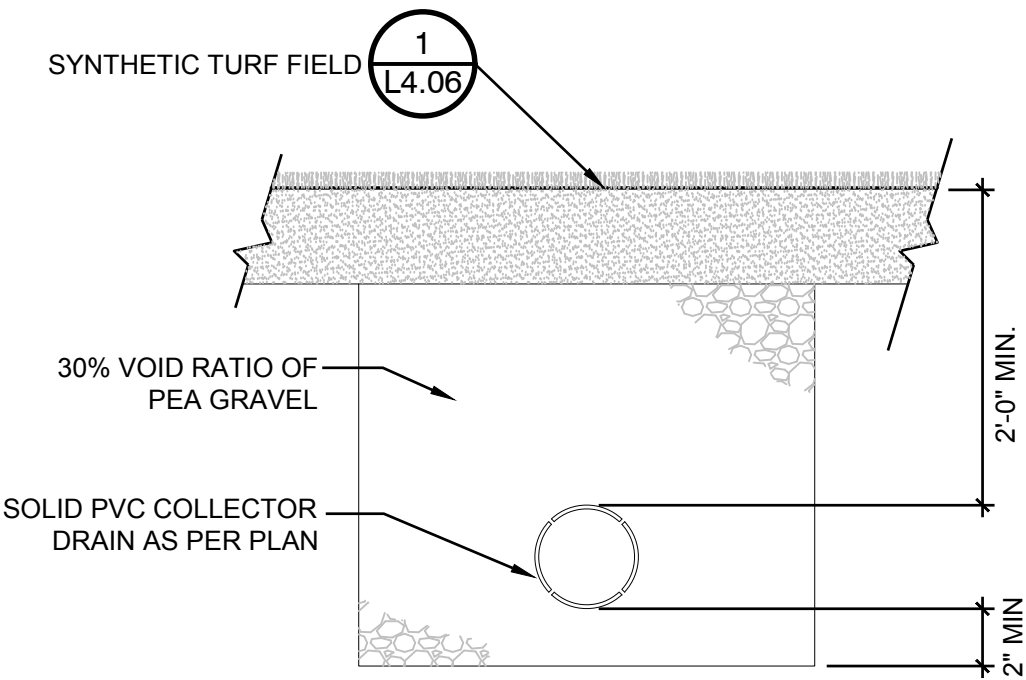
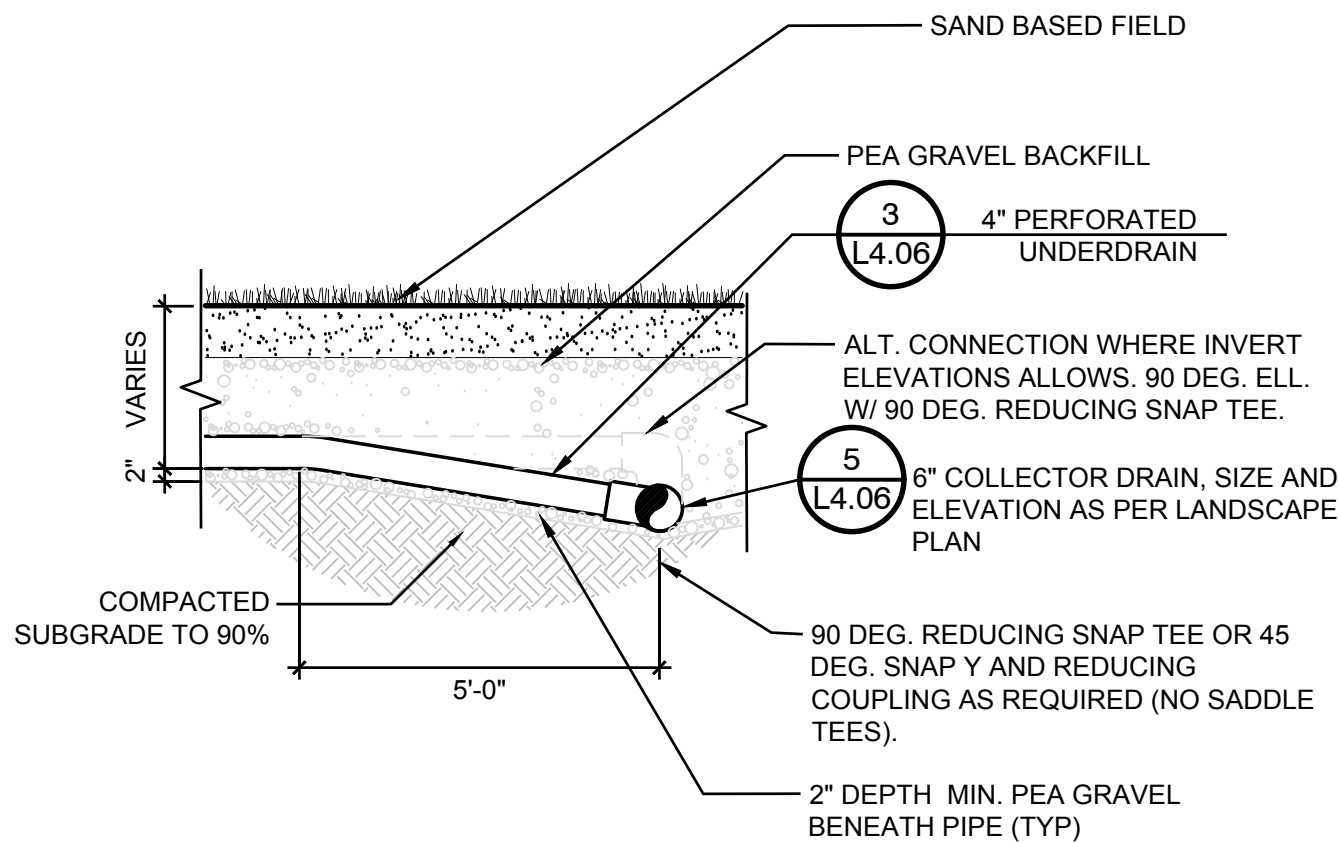
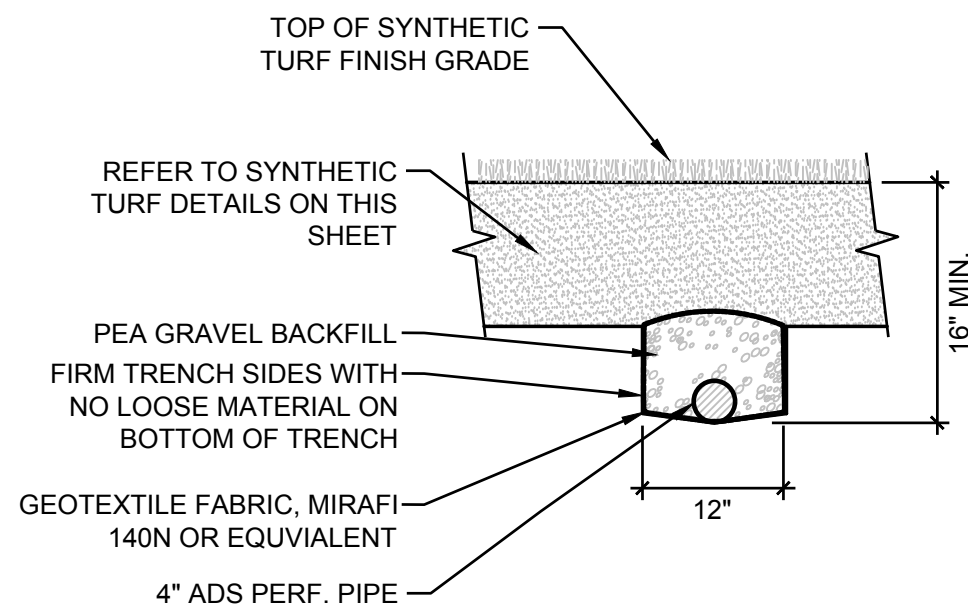
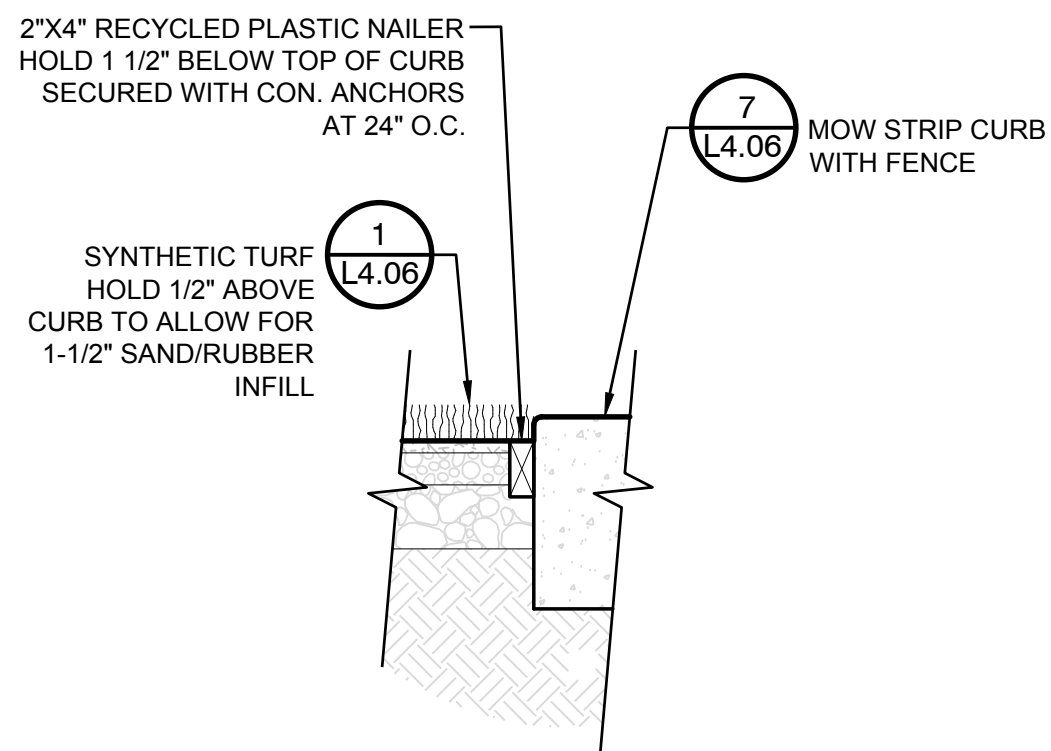
SHEET

67

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- NOTES:
- FURNISH AND INSTALL SYNTHETIC TURF PER MANUFACTURER'S WRITTEN INSTRUCTION.
 - STONE BASE AND DRAINAGE SYSTEM SHALL BE ACCEPTED BY THE SYNTHETIC TURF MANUFACTURER/INSTALLER PRIOR TO INSTALLATION OF MATERIALS.
 - REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.



1 SYNTHETIC TURF SURFACE

1" = 1'-0"

P-2018-KIR-100

2 SYNTHETIC TURF CURB ATTACHMENT

1" = 1'-0"

P-2018-KIR-90

3 4" PERFORATED UNDERDRAIN

3/4" = 1'-0"

P-2018-KIR-24

4 UNDERDRAIN CONNECTION TO COLLECTOR DRAIN

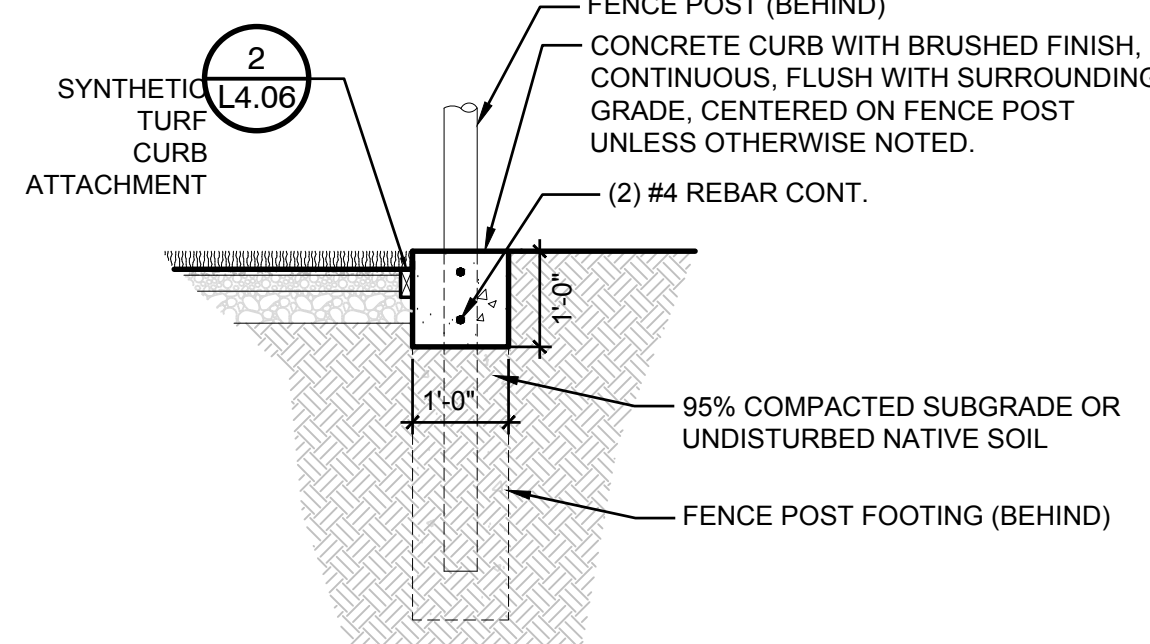
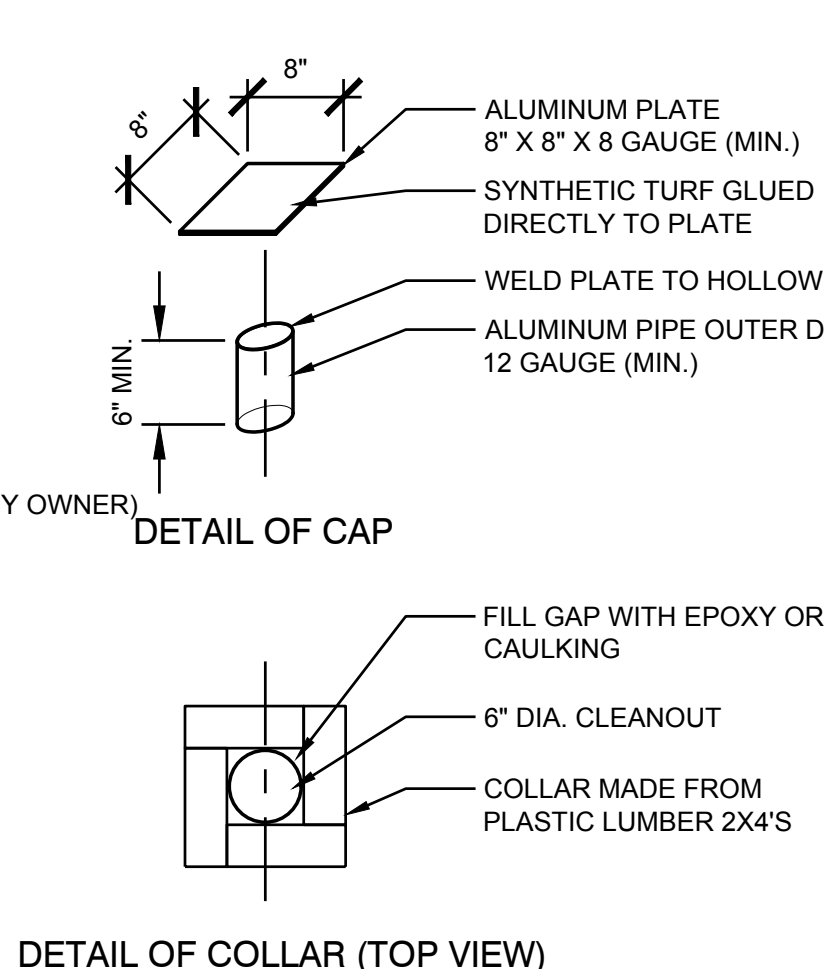
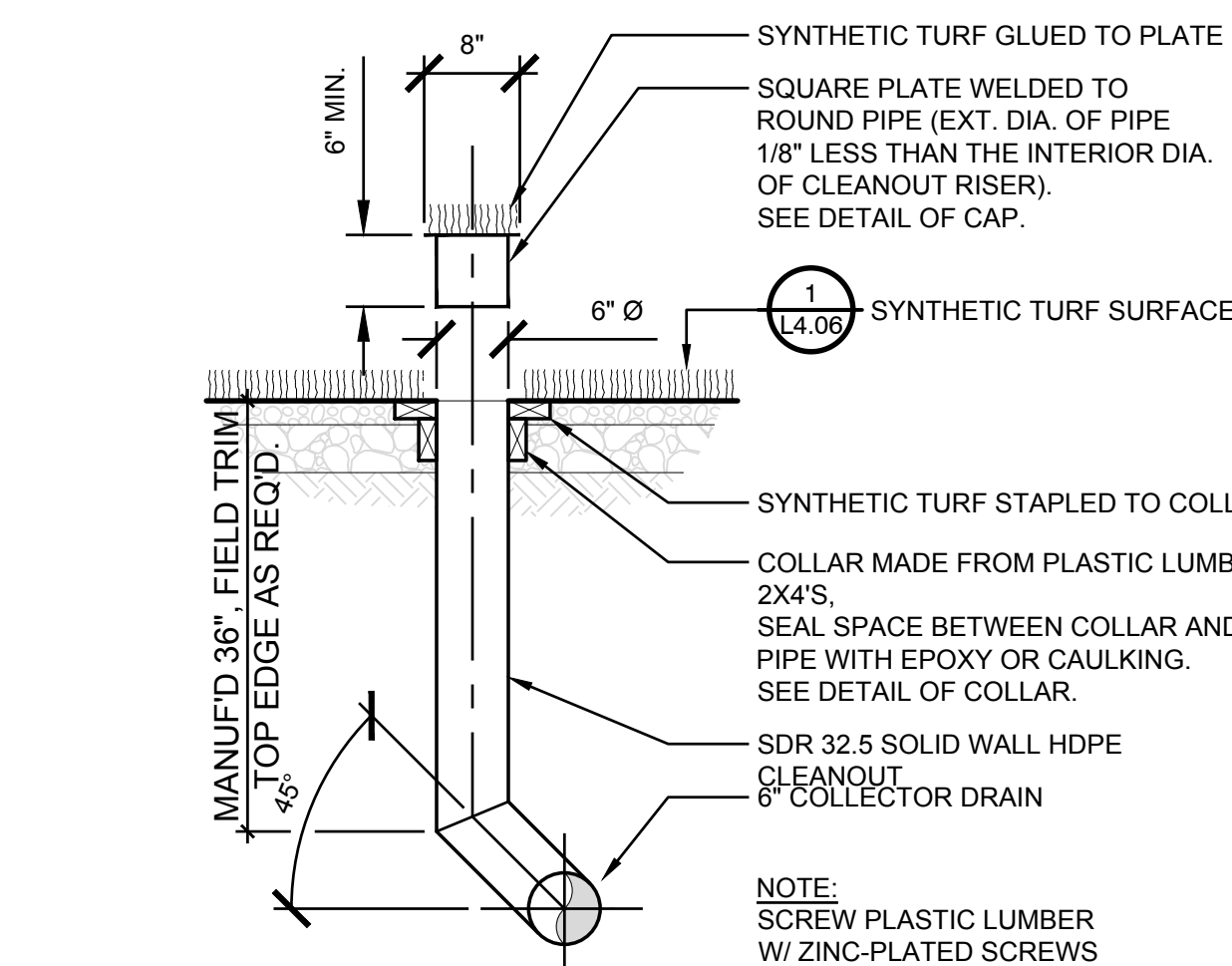
3/8" = 1'-0"

P-2018-KIR-88

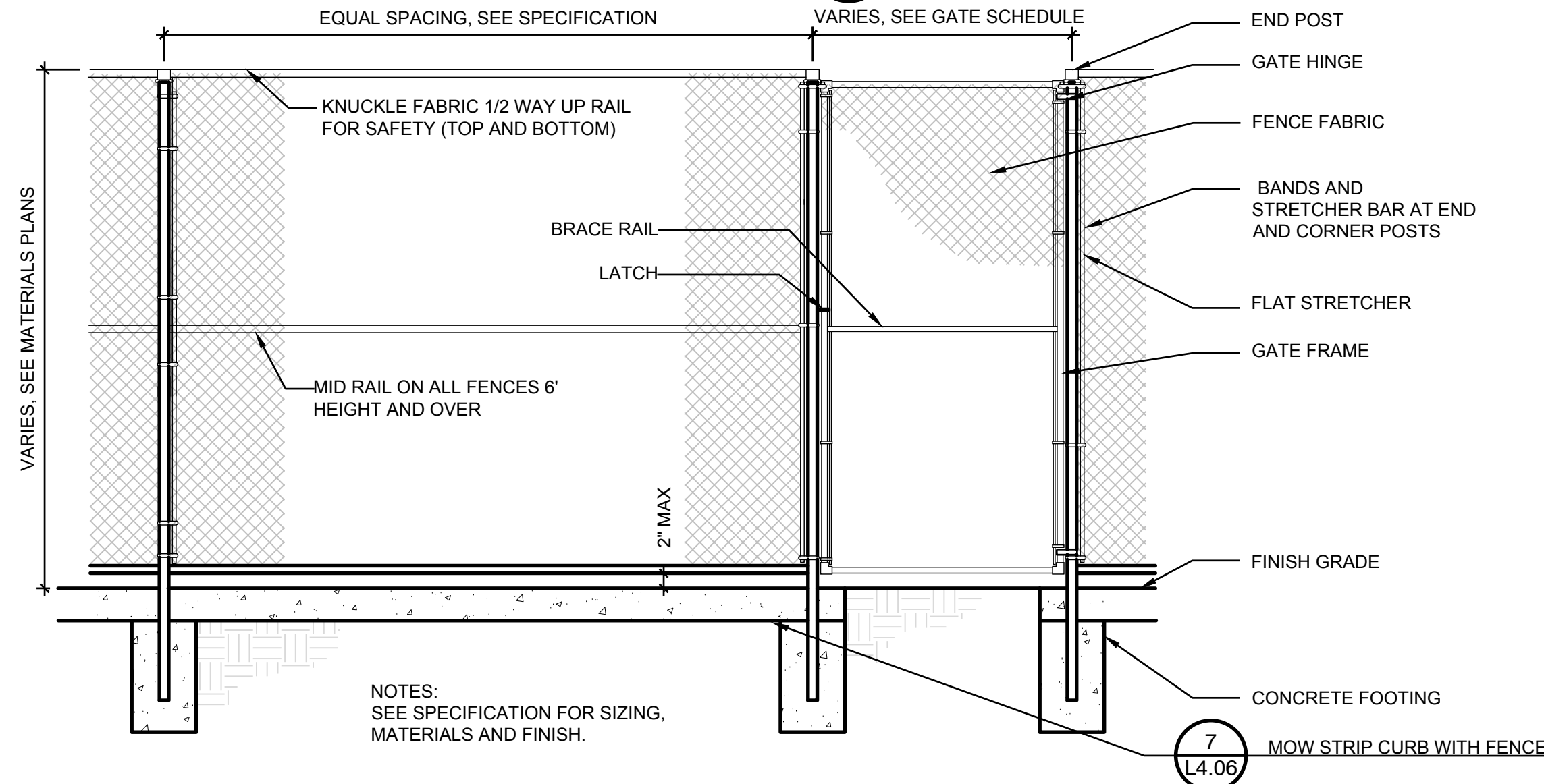
5 COLLECTOR DRAIN

1/2" = 1'-0"

P-2018-KIR-91



- NOTES:
- PROVIDE EXPANSION JOINTS ON LESS THAN 15' SPACING AT POST FOOTINGS.
 - INSURE MOW STRIP IS FLUSH WITH SURROUNDING GRADE TO PREVENT TRIPPING.



6 CONNECTOR DRAIN CLEANOUT DETAIL

3/4" = 1'-0"

P-2018-KIR-28

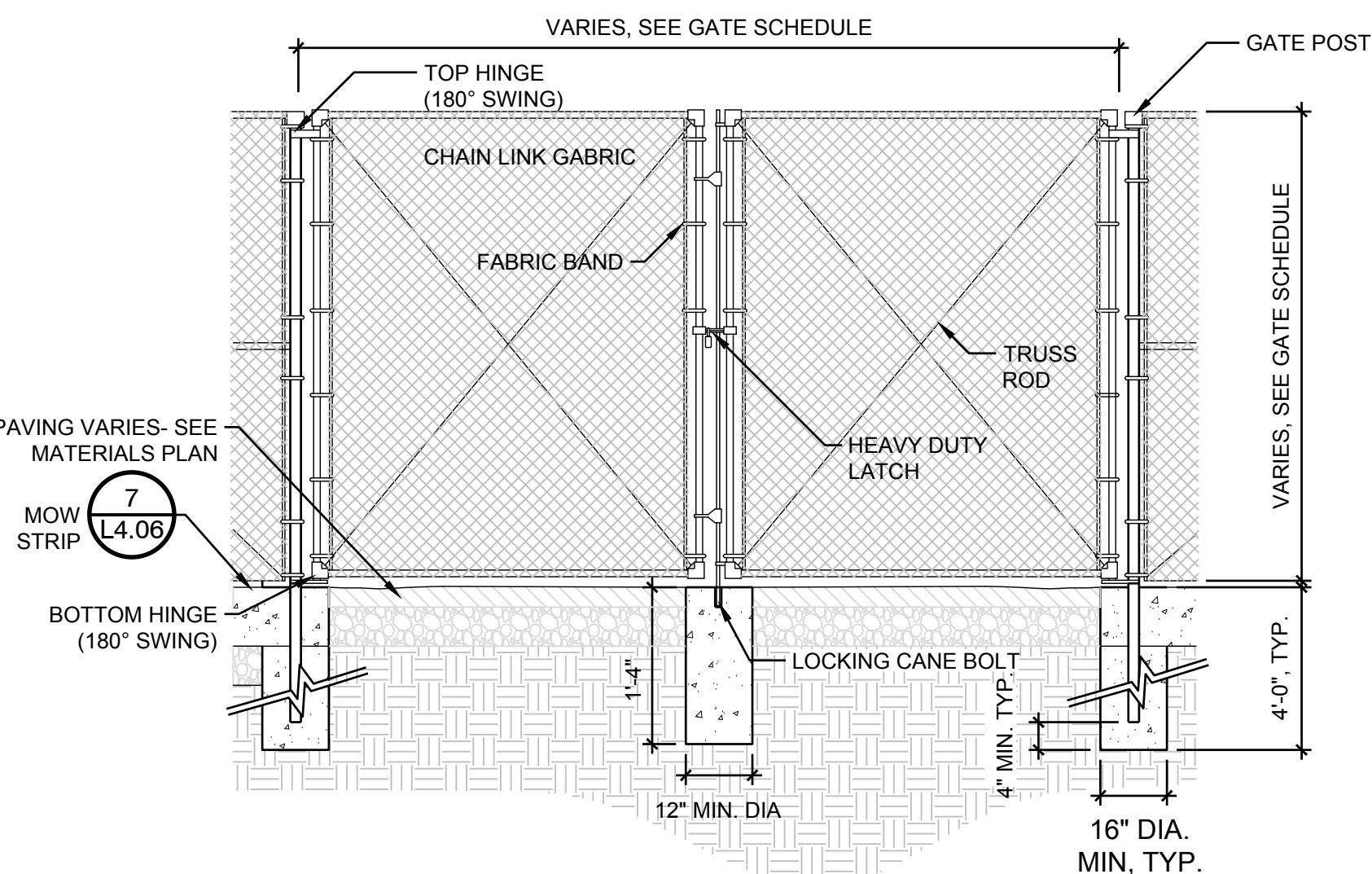
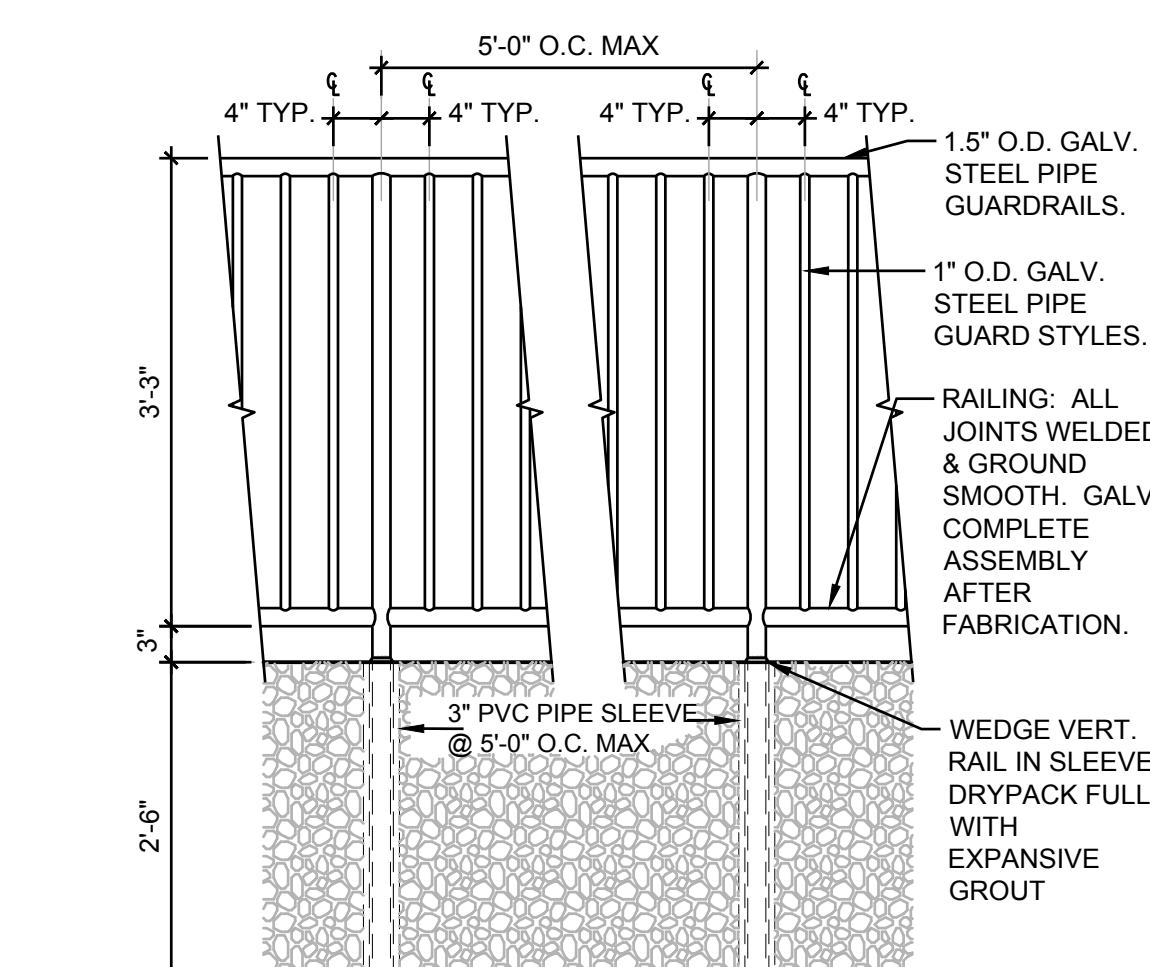
7 MOW STRIP CURB WITH FENCE

1/2" = 1'-0"

P-2018-KIR-107

8 CHAIN LINK FENCE AND PEDESTRIAN GATE

1/2" = 1'-0"



11 PEDESTRIAN GATE AT BACKSTOP

NOT TO SCALE

P-2018-KIR-64

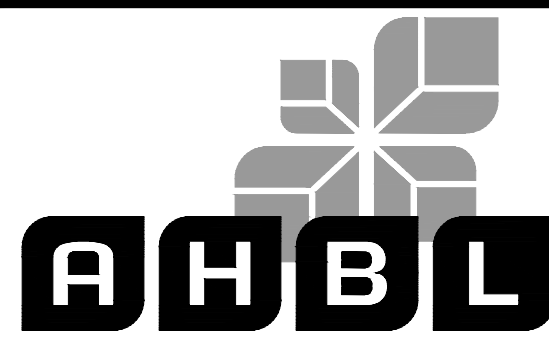
9 GUARDRAIL

3/4" = 1'-0"

10 DOUBLE SWING GATE

3/4" = 1'-0"

P-2018-KIR-57



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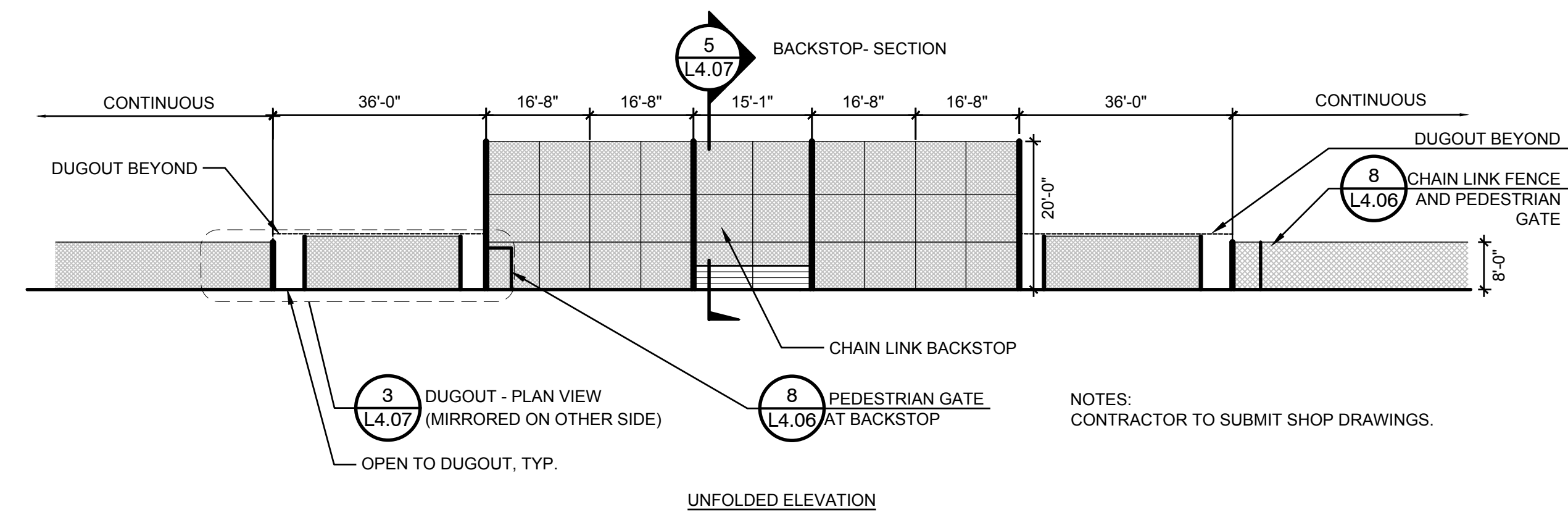
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DETAILS

DWG. NO. **L4.06**

SHEET

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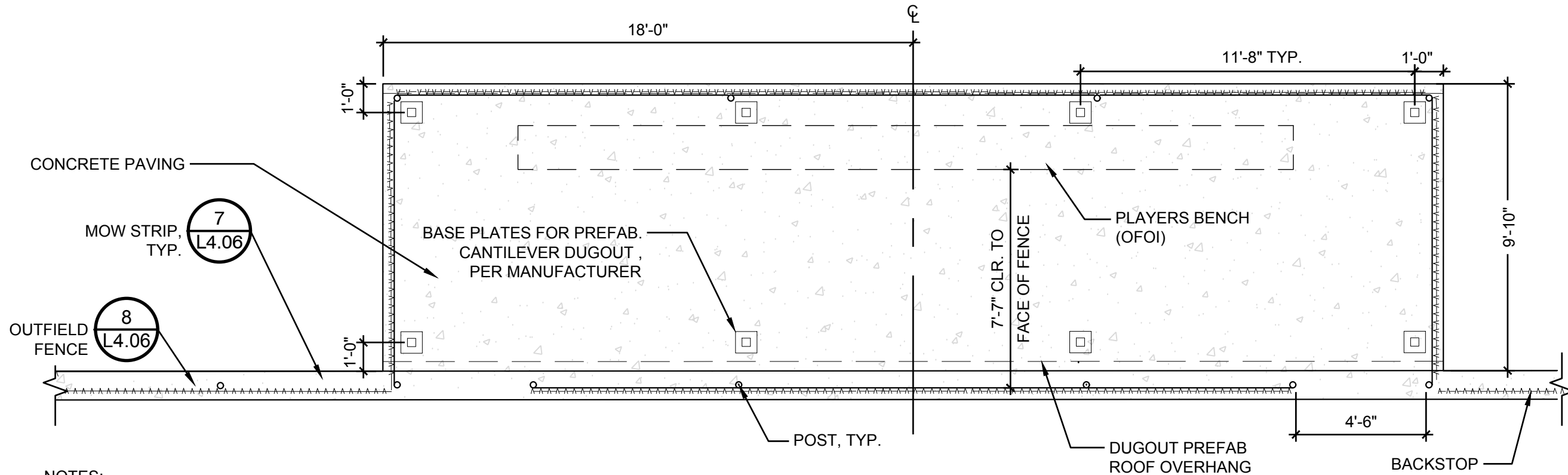
77



1 BACKSTOP

1" = 20'

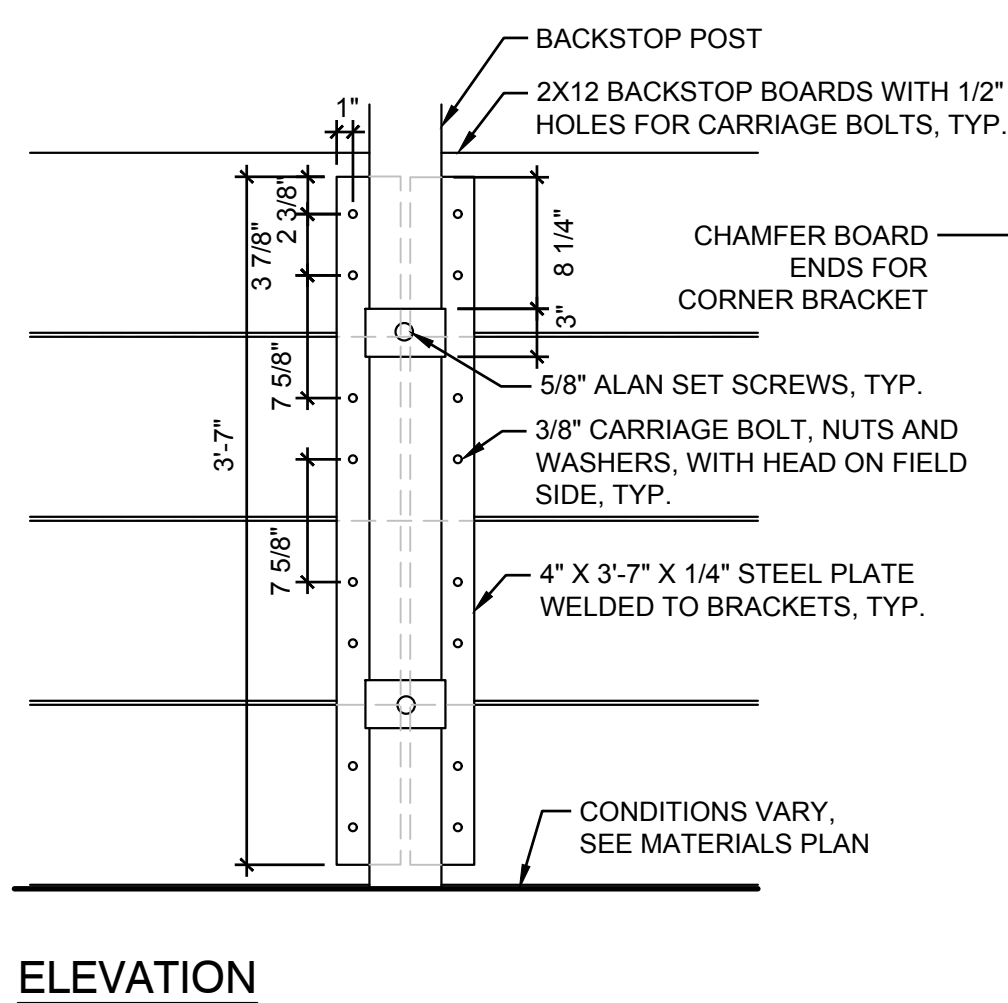
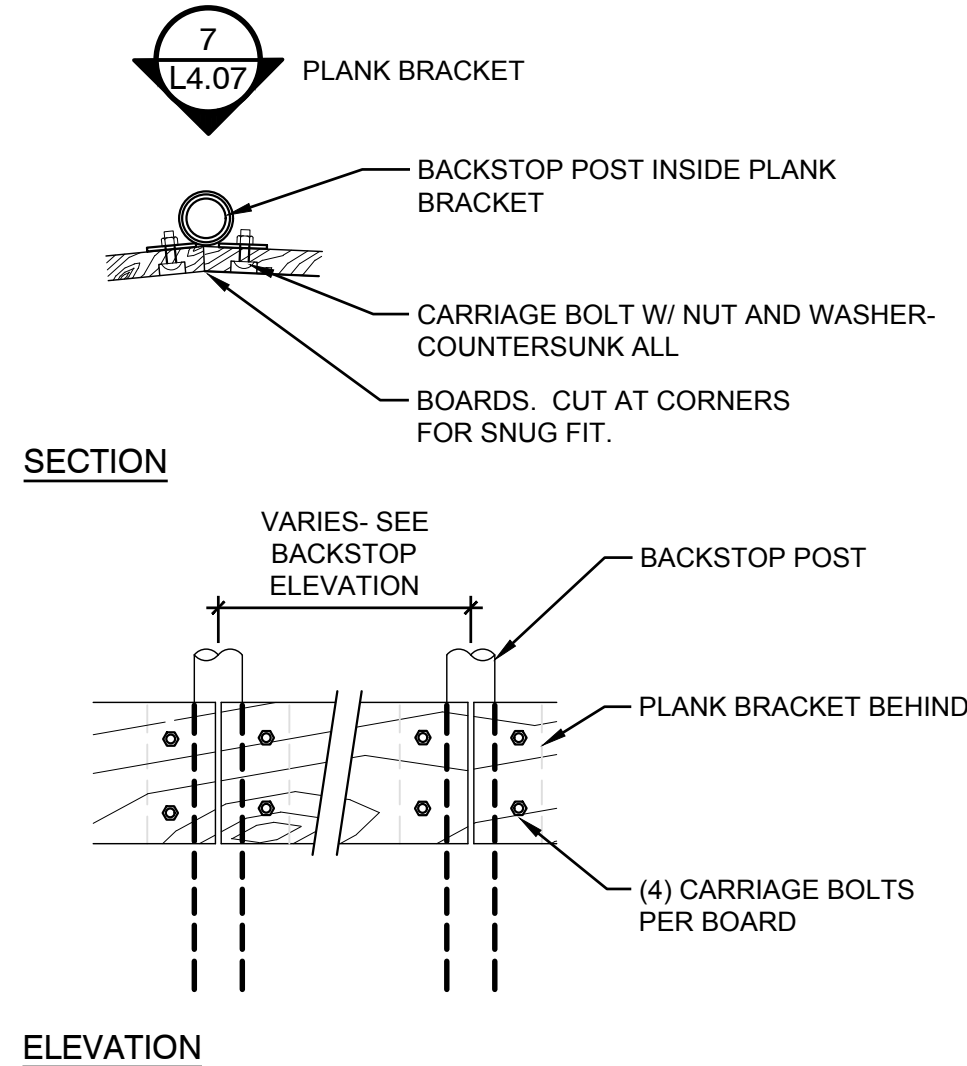
P-2018-KIR-61



3 DUGOUT - PLAN VIEW

1/4" = 1'-0"

P-2018-KIR-11



ELEVATION

PLAN

6 BOLT PATTERN

3/4" = 1'-0"

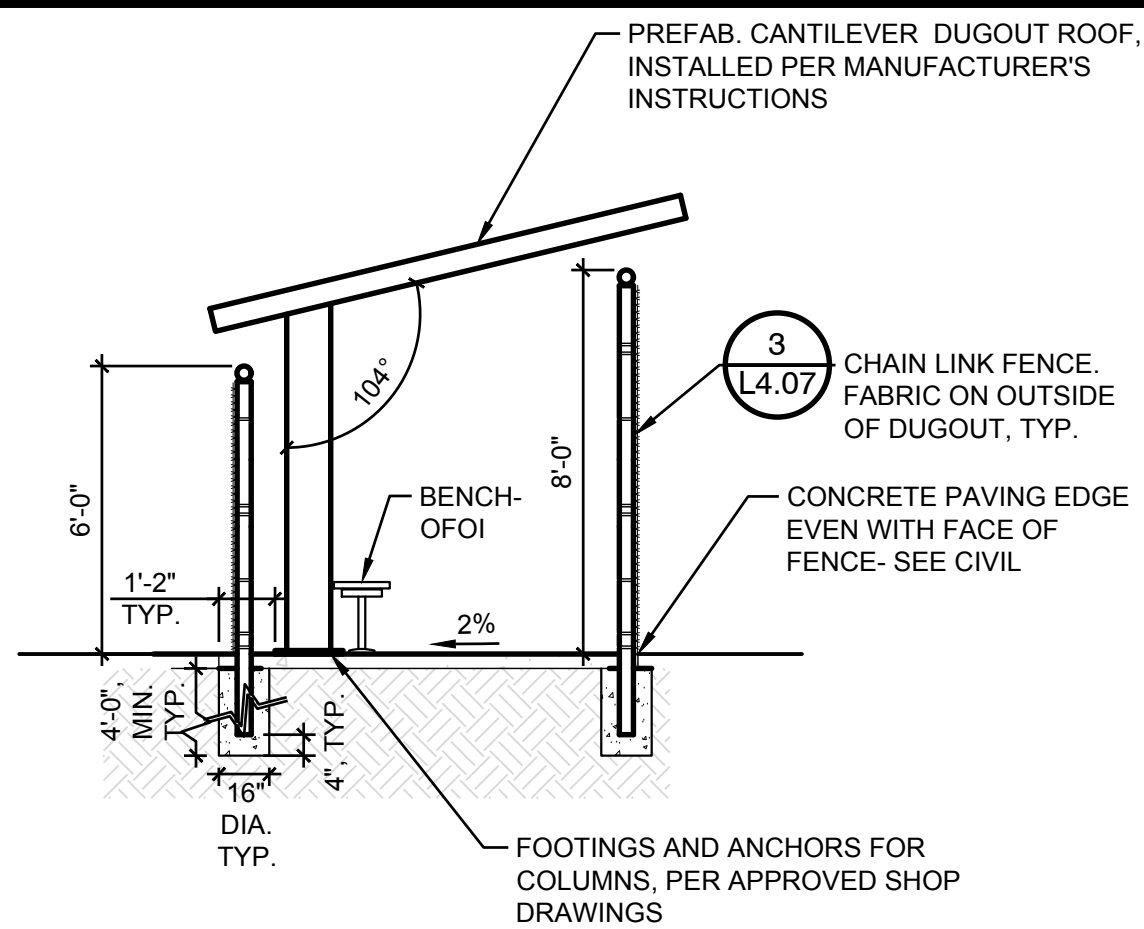
P-2018-KIR-106

7 PLANK BRACKET

1" = 1'-0"

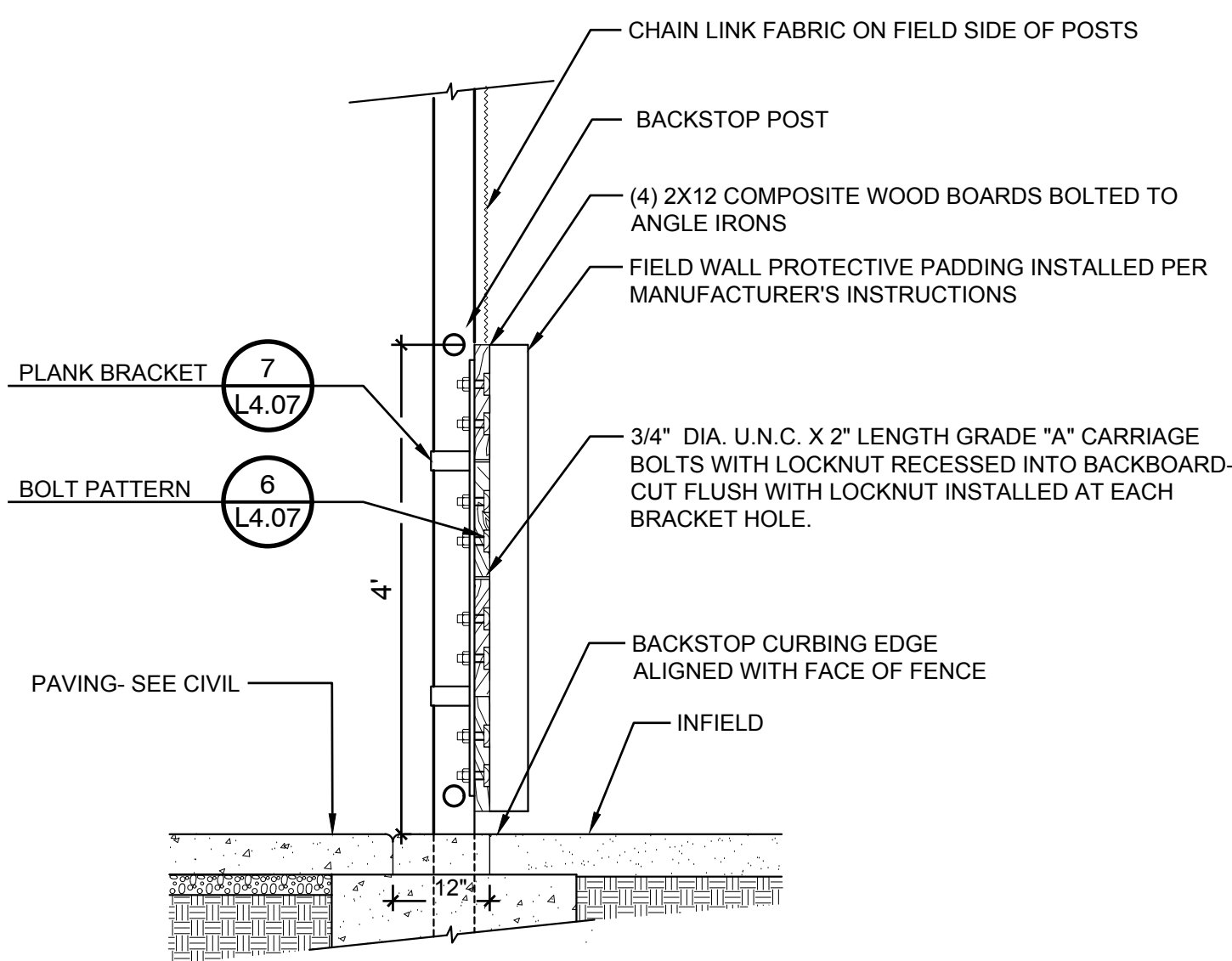
2 DUGOUT SECTION

1/4" = 1'-0"



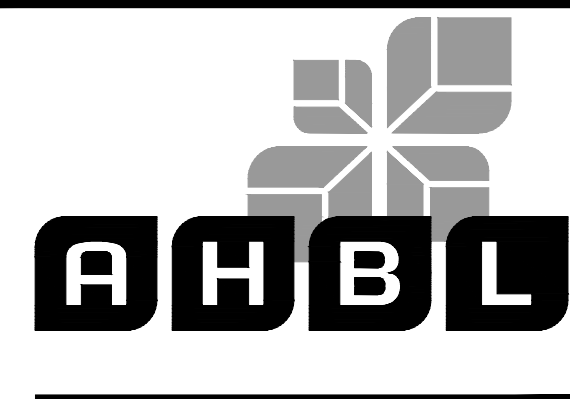
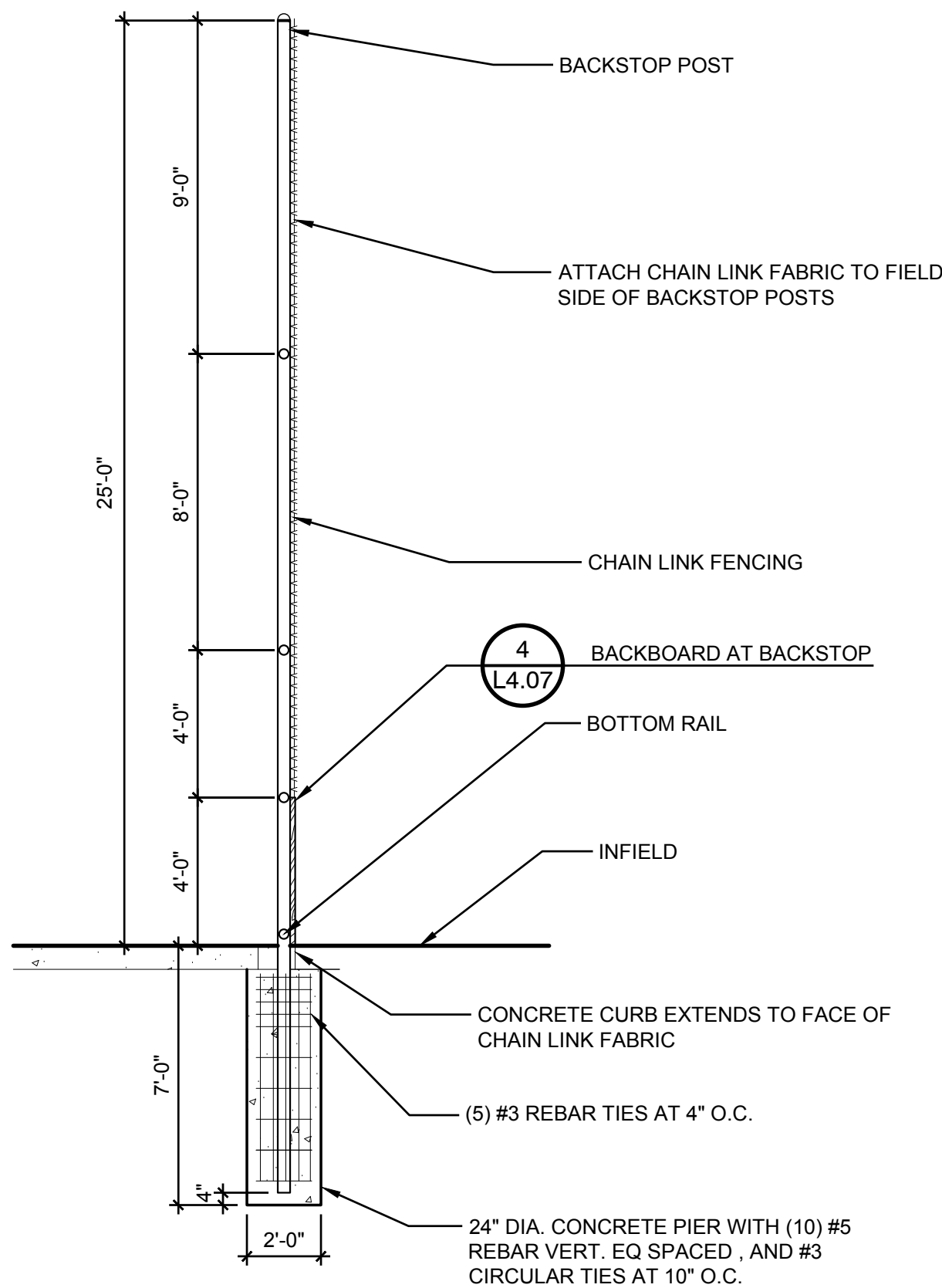
4 BACKBOARD AT BACKSTOP

3/4" = 1'-0"



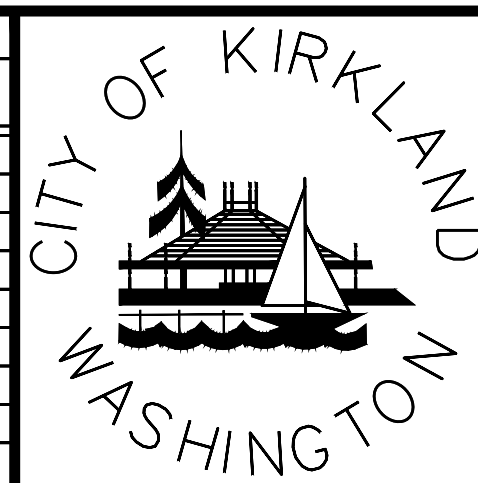
5 BACKSTOP- SECTION

1/4" = 1'-0"



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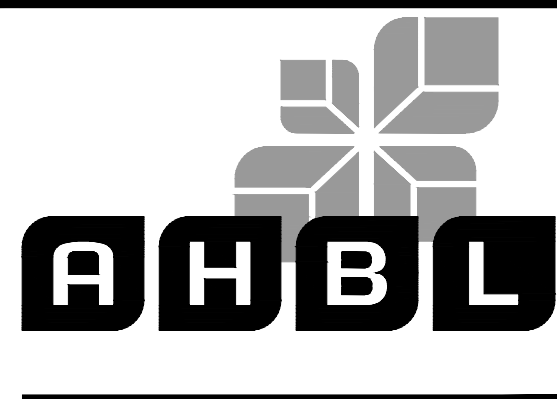
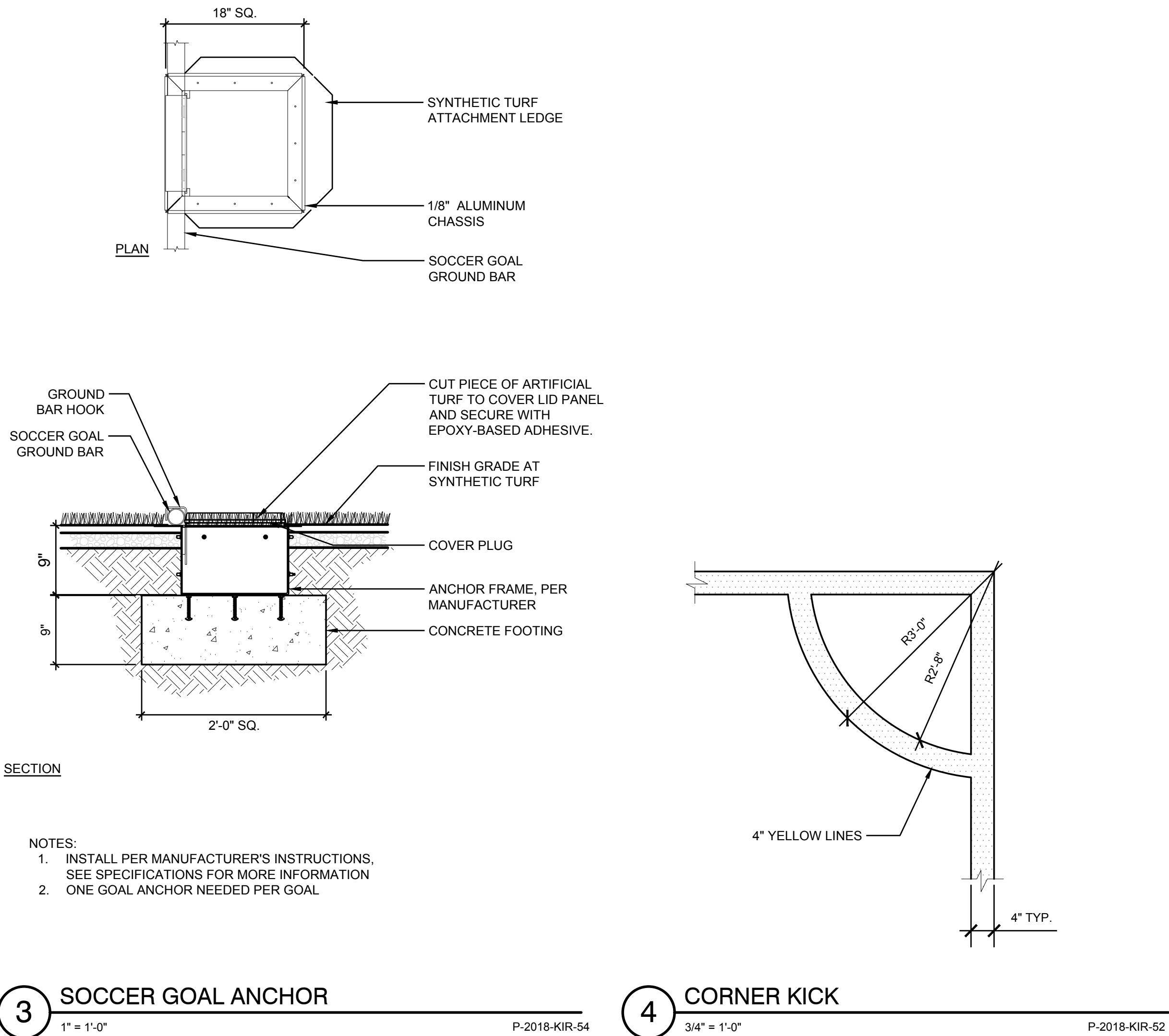
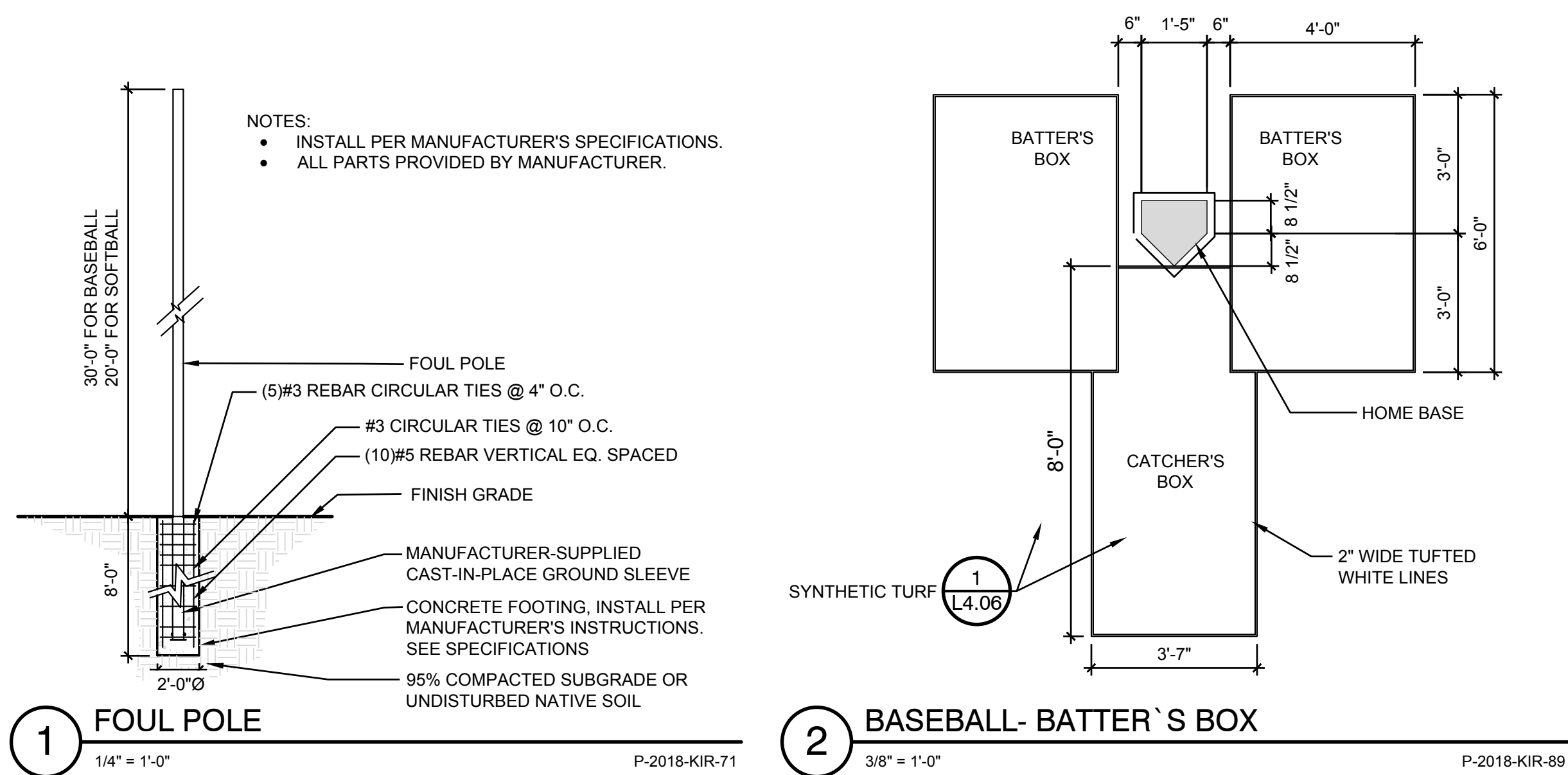
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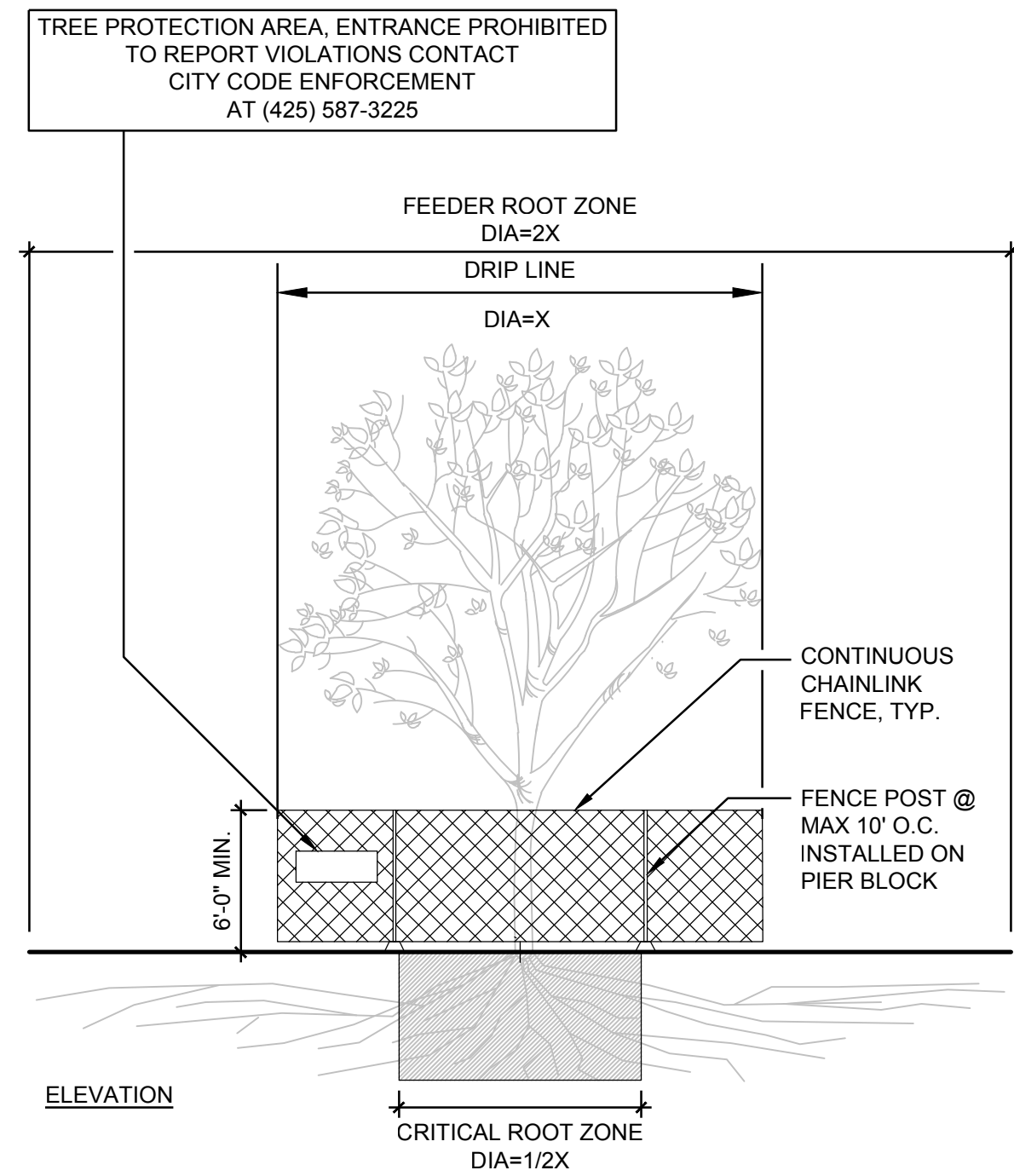
132ND SQUARE PARK
STORMWATER RETROFIT
DETAILS

DWG. NO. **L4.08**

SHEET

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1 TREE PROTECTION
3/16" = 1'-0"

FENCING/ROOT PROTECTION

1. FENCING TO BE PROVIDED AND MAINTAINED AT CANOPY DRIP LINE.
2. TREE PROTECTION FENCE SHOULD BE MAINTAINED THROUGHOUT GRADING AND CONSTRUCTION AND SHALL NOT BE REMOVED UNTIL FINAL ACCEPTANCE.
3. ALL BRUSH CLEANUP WITHIN DRIP LINE SHOULD BE COMPLETED BY HAND TO PREVENT DISTURBANCE OF NATIVE GROUND COVERS.
4. NO WIRES, CABLES, OR OTHER DEVICES SHALL BE ATTACHED TO PROTECTED TREES DURING CONSTRUCTION.
5. CONTRACTOR SHALL REFER TO PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

TRENCHING/EXCAVATION

CRITICAL ROOT ZONE

1. NO DISTURBANCE ALLOWED WITHOUT SITE-SPECIFIC INSPECTION AND APPROVAL OF METHODS TO MINIMIZE ROOT DAMAGE.

DRIP LINE

1. LANDSCAPE ARCHITECT'S APPROVAL REQUIRED FOR USE/ACCESS WITHIN DRIP LINE.
2. NO SOIL DISTURBANCE OR ACTIVITY ALLOWED WITHIN FENCED AREAS, SUCH AS MATERIAL STORAGE/STOCKPILING, PARKING, EXCAVATION, DUMPING OR WASHING.
3. ANY TRENCHING SUBJECT TO FIELD INSPECTION AND APPROVAL BY LANDSCAPE ARCHITECT.

FEEDER ROOT ZONE

1. OPERATION OF HEAVY EQUIPMENT AND/OR STOCKPILING OF MATERIALS SUBJECT TO LANDSCAPE ARCHITECT'S APPROVAL.
2. MINIMIZE TRENCH WIDTH WHEN USING HEAVY EQUIPMENT. SURFACE PROTECTION* MEASURES MAY BE REQUIRED.
3. LIMIT ANY DISTURBANCE TO MAXIMUM 1/3 OF FEEDER ROOT ZONE.
4. IF ROOTS GREATER THAN 2 INCH FOUND OUTSIDE OF FENCING, PROTECT BY HAND EXCAVATION AND, IF NECESSARY, CUT CLEANLY AND KEEP MOIST.
5. IF ROOTS GREATER THAN 1 INCH DIAMETER ARE DAMAGED DURING CONSTRUCTION, MAKE A CLEAN STRAIGHT CUT TO REMOVE DAMAGED PORTION OF ROOT.
6. ALL EXPOSED ROOTS SHALL BE TEMPORARILY COVERED WITH DAMP BURLAP TO PREVENT DRYING AND COVERED WITH SOIL AS SOON AS POSSIBLE.
7. USE 3 INCHES OR DEEPER WOOD CHIP MULCH OUTSIDE FENCED AREAS TO PROTECT FEEDER ROOTS.

*SURFACE PROTECTION MEASURES

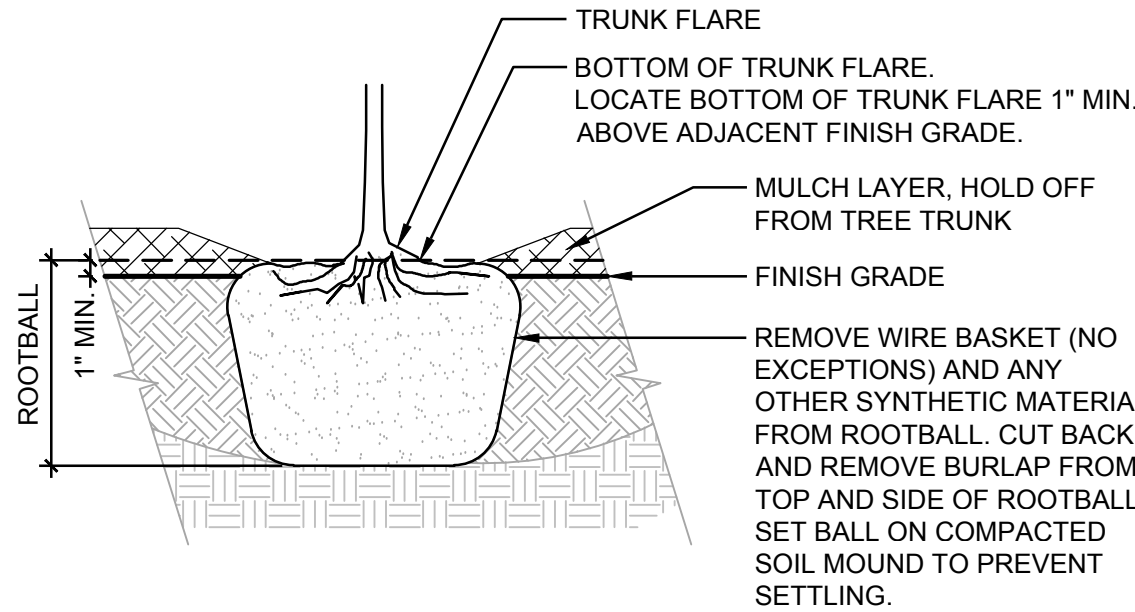
6-8" MULCH LAYER, 3/4" PLYWOOD, OR STEEL PLATES

FENCING SIGNAGE

SIGNAGE AS DETAILED ABOVE TO BE POSTED EVERY 15 FEET ALONG FENCE

NOTES:

1. TREES PLANTED TOO DEEP WITHOUT EXPOSING ROOT FLARE WILL BE REJECTED AND SHALL BE REMOVED AND REPLANTED AT PROPER DEPTH.
2. REPLACEMENT OR REPLANTING OF REJECTED TREES WILL BE DONE AT THE CONTRACTOR'S EXPENSE.
3. REMOVE EXCESS SOIL THAT MAY HAVE ACCUMULATED ABOVE THE TRUNK FLARE PRIOR TO DIGGING AT NURSERY. EXPOSE AND LOCATE TRUNK FLARE PRIOR TO PLANTING.
4. PRUNE ANY GIRDLING OR ADVENTITIOUS ROOTS PRIOR TO BACKFILLING.

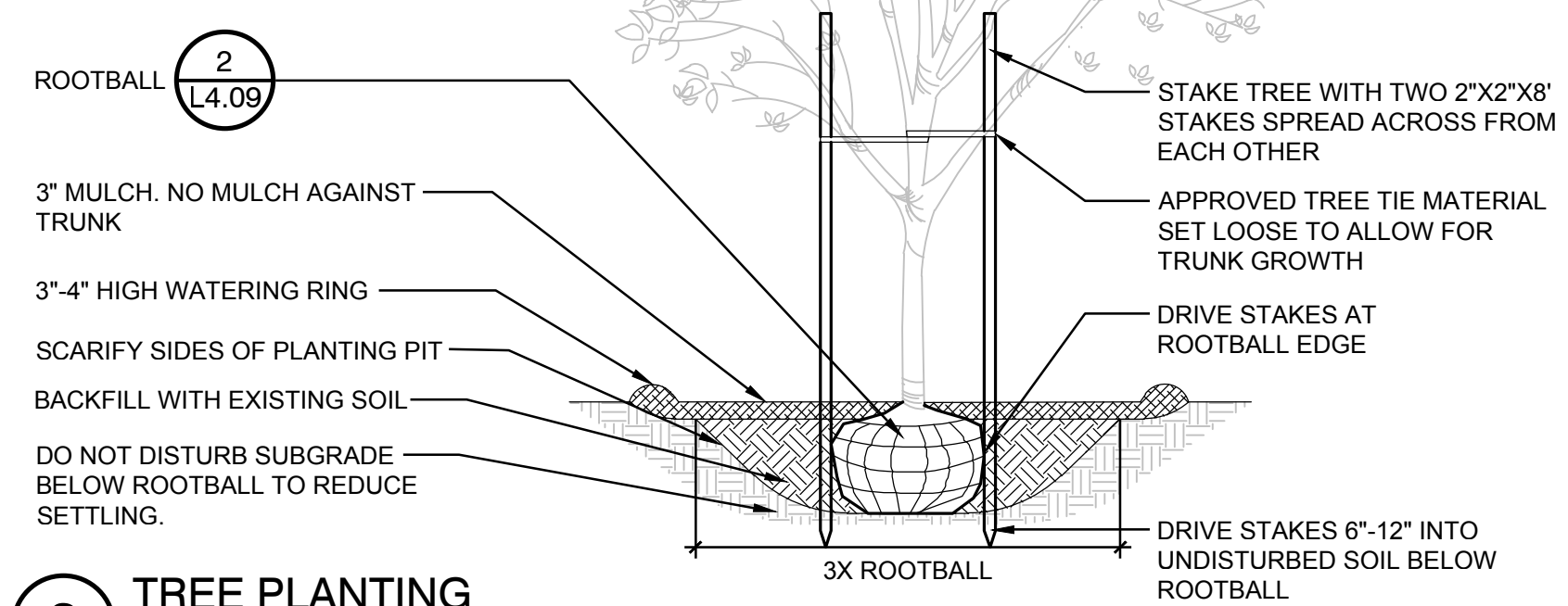


2 ROOTBALL
1" = 1'-0"

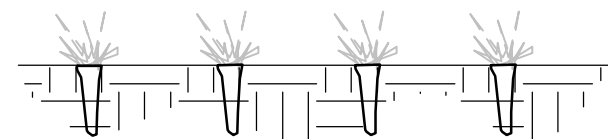
NOTE:

1. TREES NOT PLANTED IN CONFORMANCE WITH THIS DETAIL WILL BE REJECTED BY THE LANDSCAPE ARCHITECT. REPLACEMENT OF REJECTED TREES WILL BE DONE AT THE CONTRACTOR'S EXPENSE.

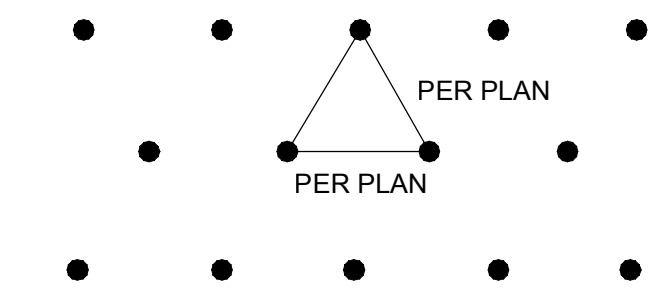
AT TIME OF PLANTING, TRIM DAMAGED BRANCHES.



3 TREE PLANTING
3/8" = 1'-0"



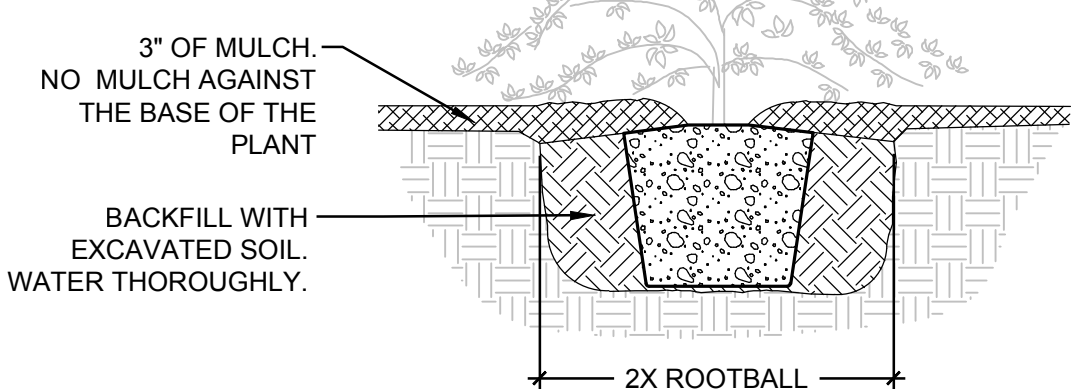
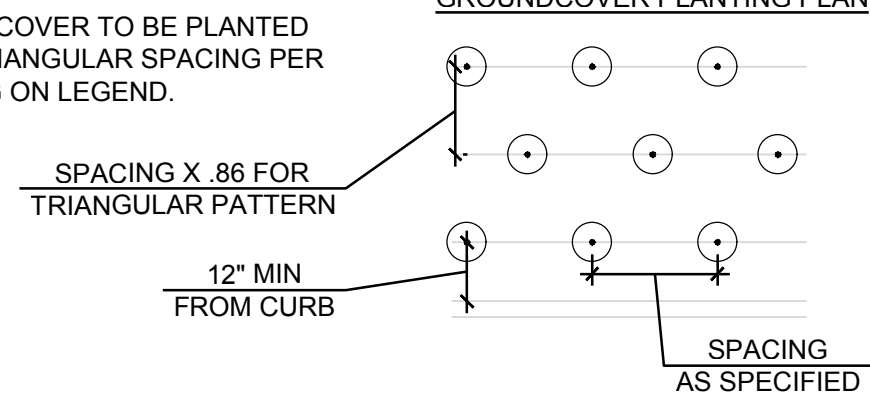
6 RIPARIAN PLUG PLANTING
3/4" = 1'-0"



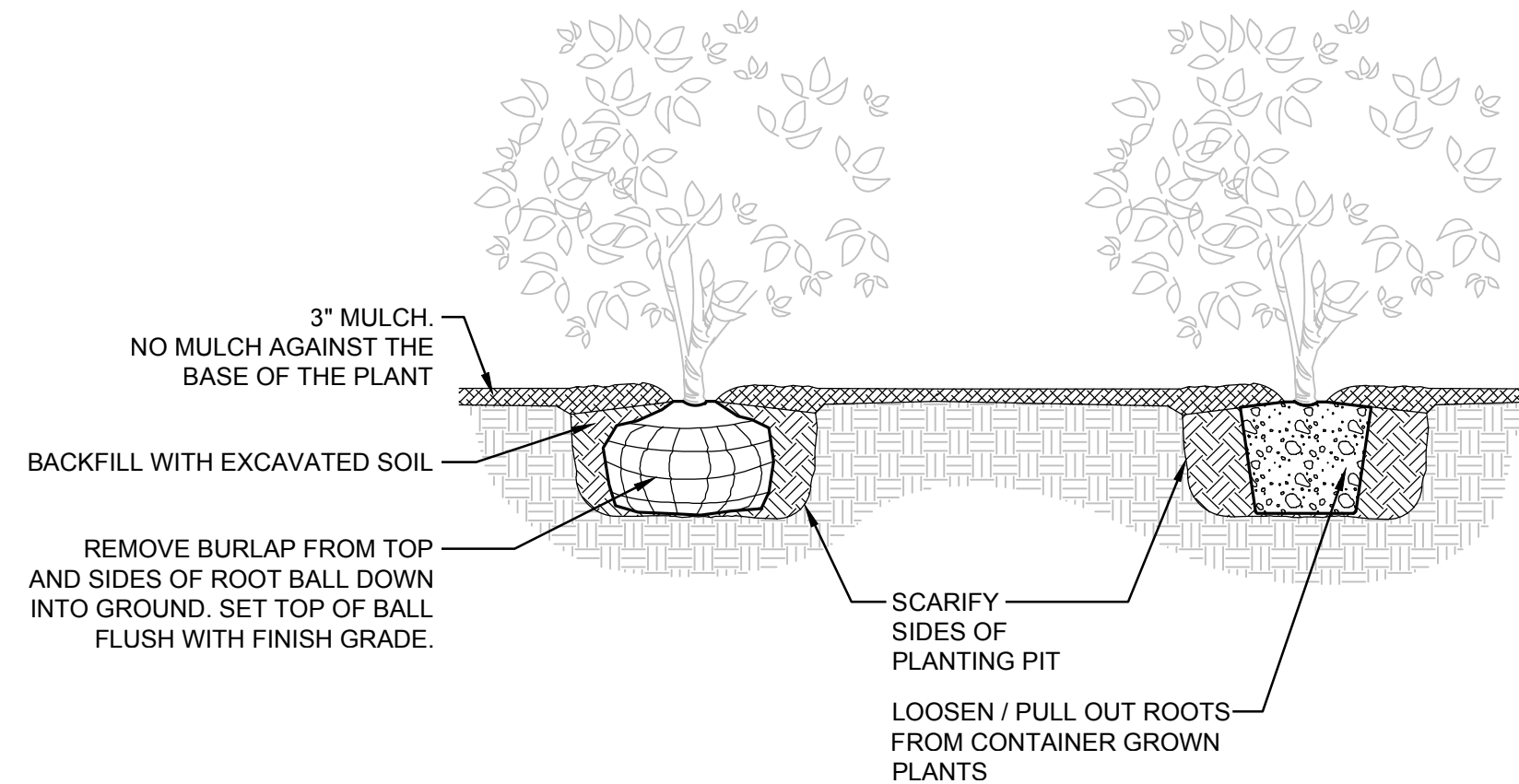
NOTE:

1. ALL GROUNDCOVER TO BE PLANTED AT EQUAL TRIANGULAR SPACING PER O.C. SPACING ON LEGEND.

GROUNDCOVER PLANTING PLAN



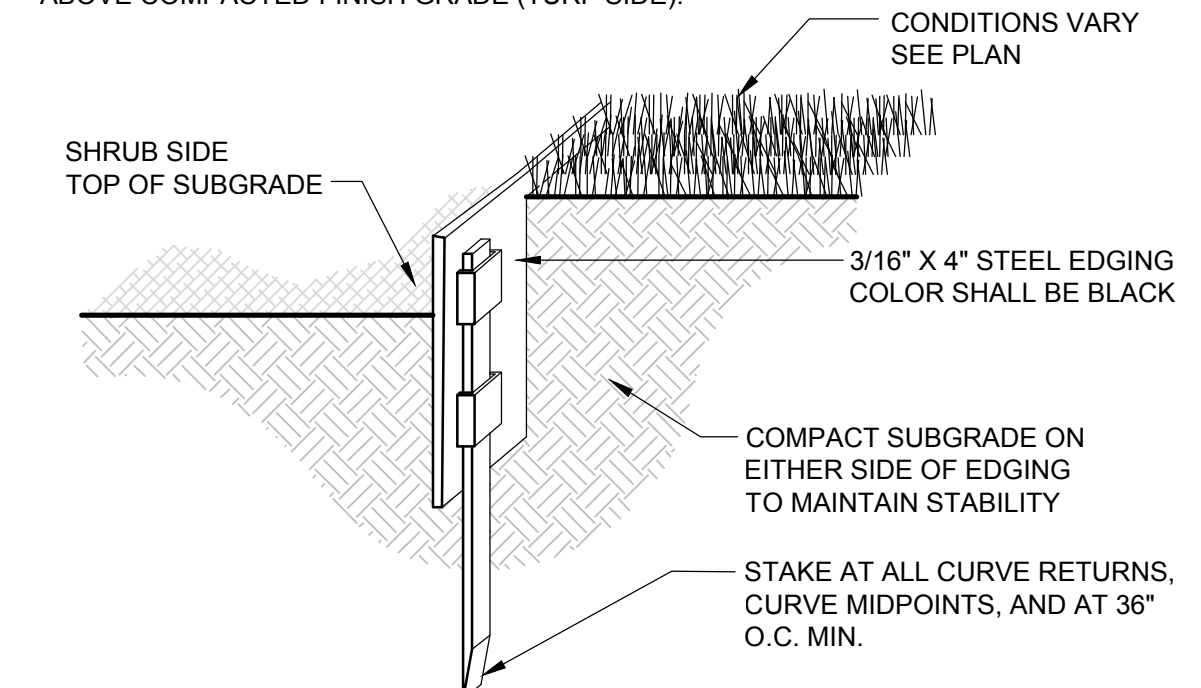
8 GROUNDCOVER PLANTING
1/2" = 1'-0"



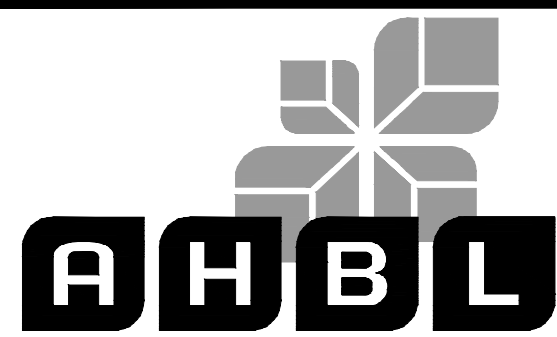
7 SHRUB PLANTING
NTS

NOTE:

INSTALL EDGING PER MANUFACTURER'S SPECIFICATIONS WITH TOP OF EDGING 1/4" TO 1/2" ABOVE COMPACTED FINISH GRADE (TURF SIDE).



2 STEEL EDGING
1" = 1'-0"



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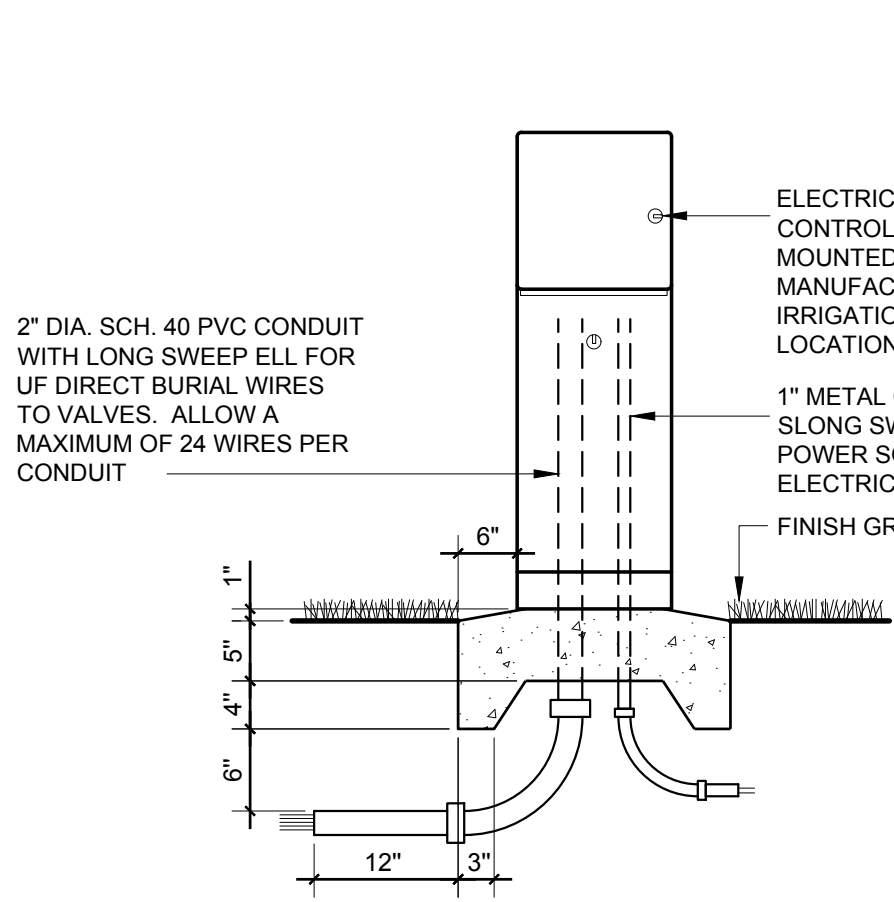
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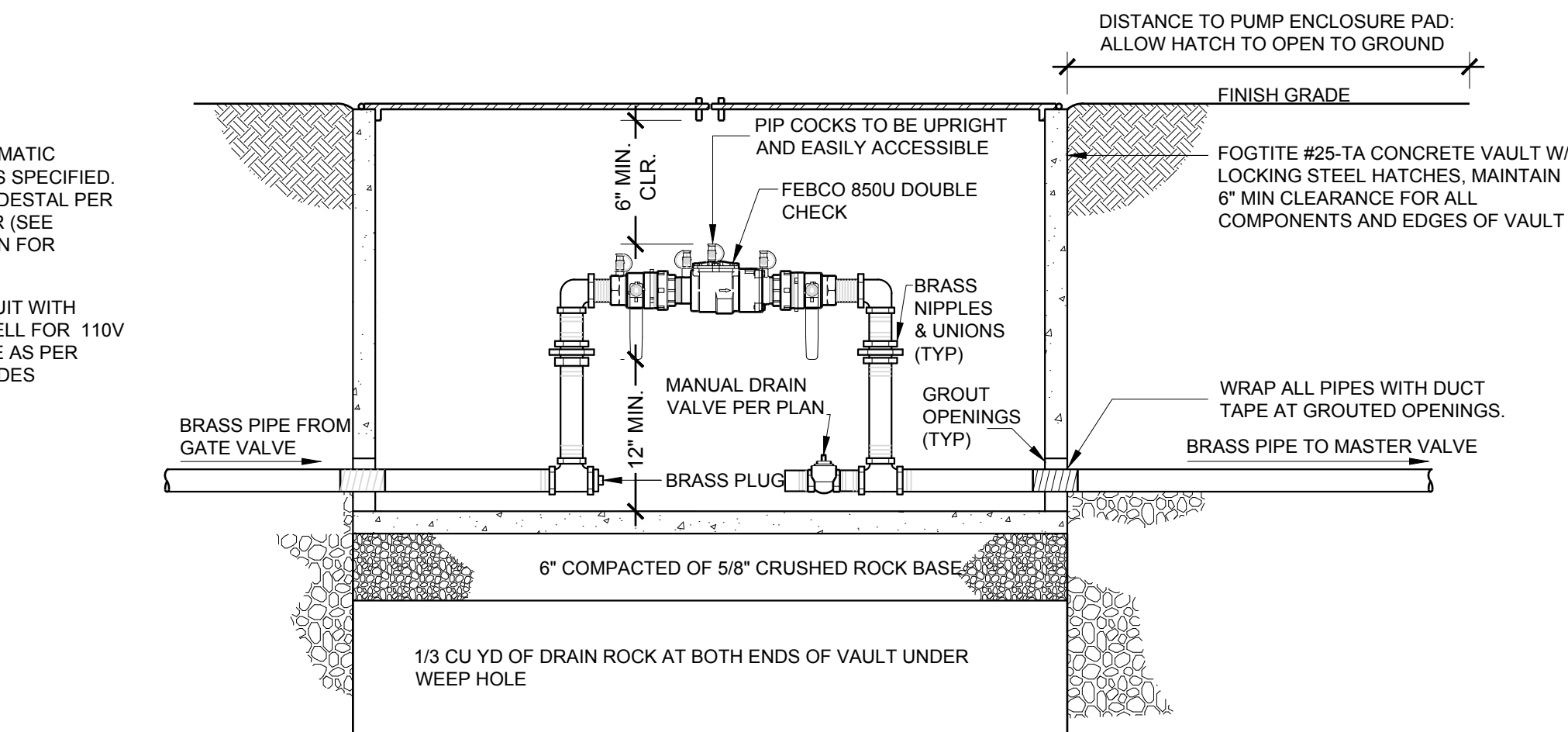
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132ND SQUARE PARK
STORMWATER RETROFIT
PLANTING DETAILS

SHEET
73
77

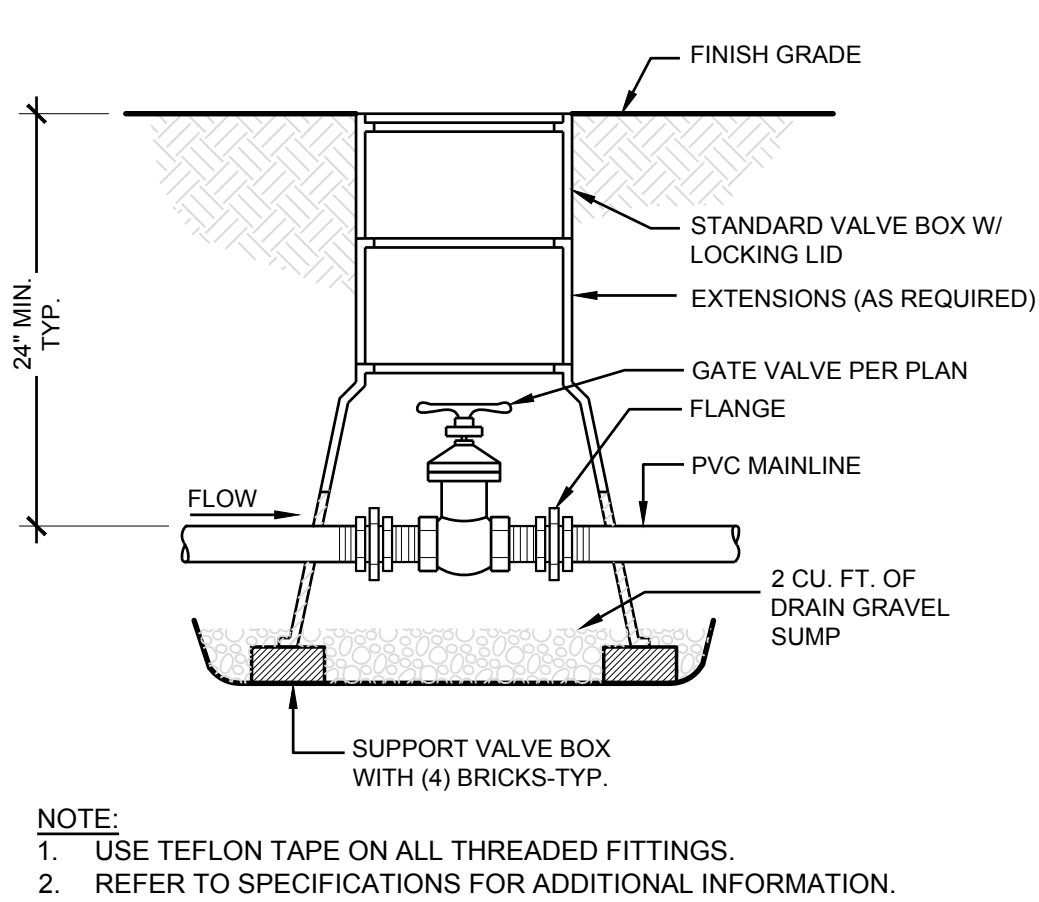
DWG. NO. **L4.09**



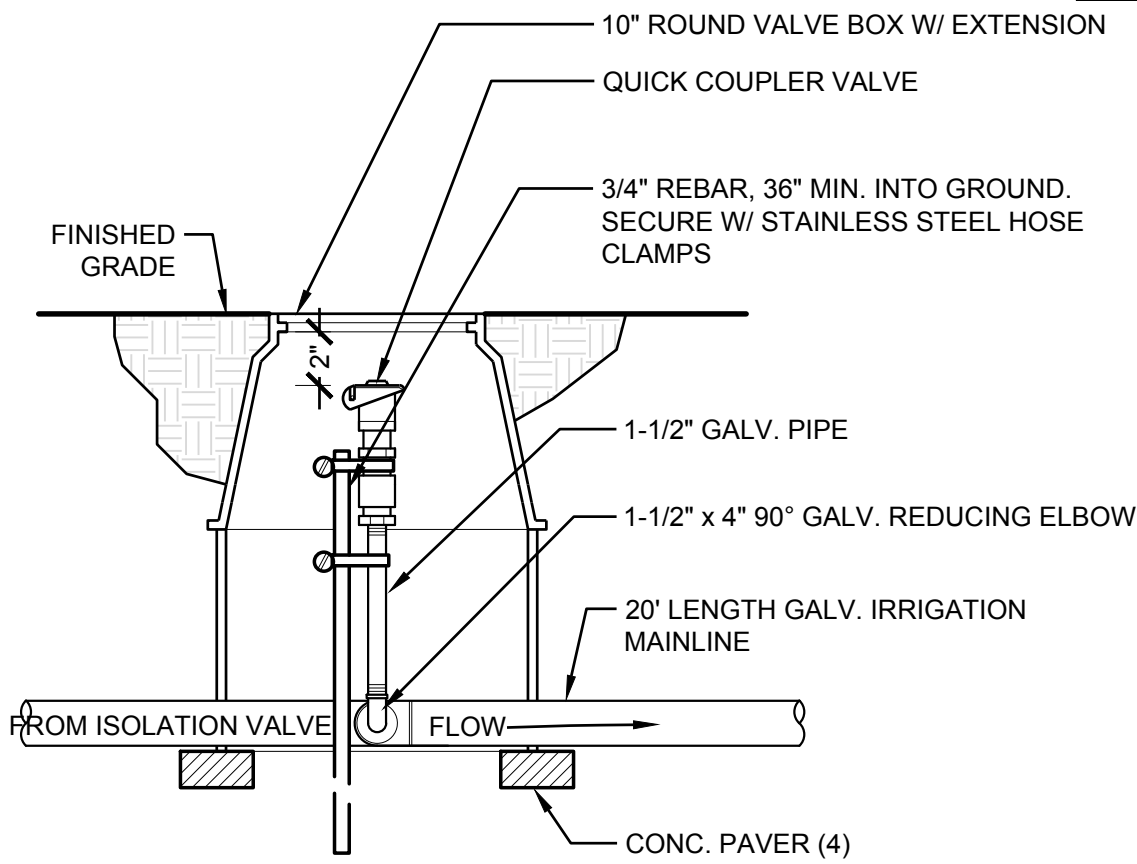
1 CONTROLLER PEDESTAL MOUNT
3/4" = 1'-0"



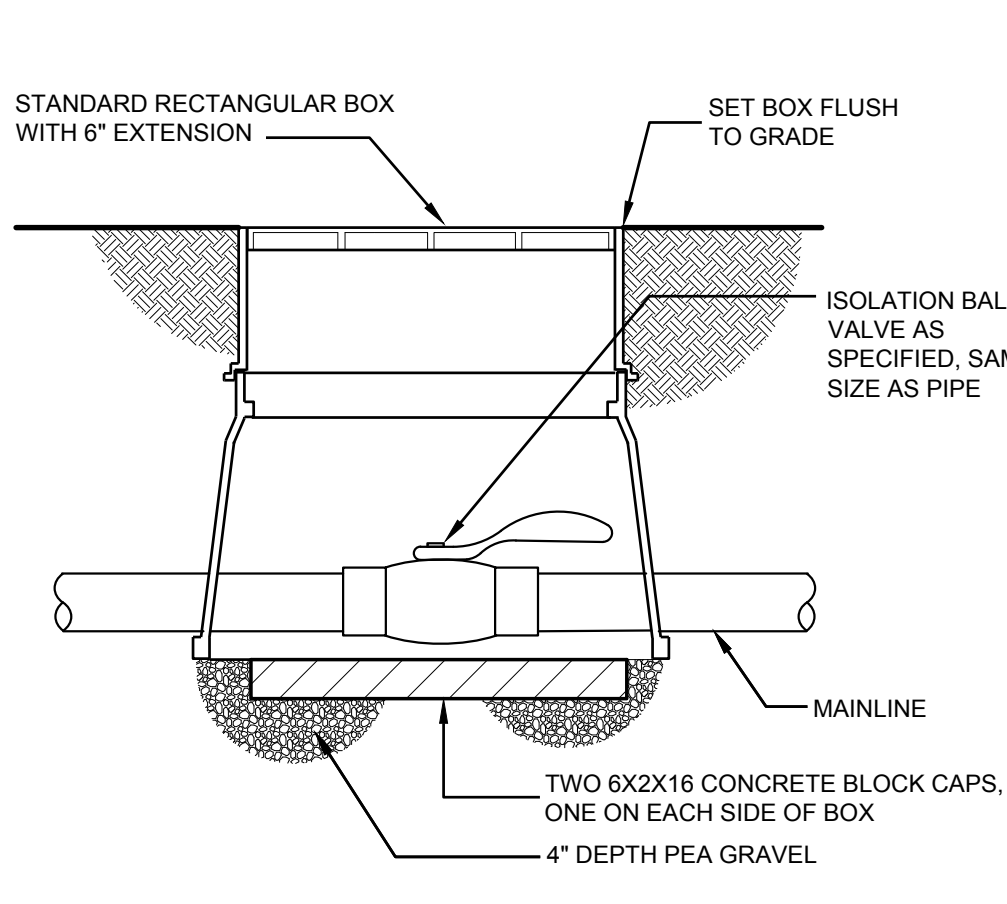
2 DOUBLE CHECK VALVE ASSEMBLY / BACKFLOW PREVENTOR
1" = 10'



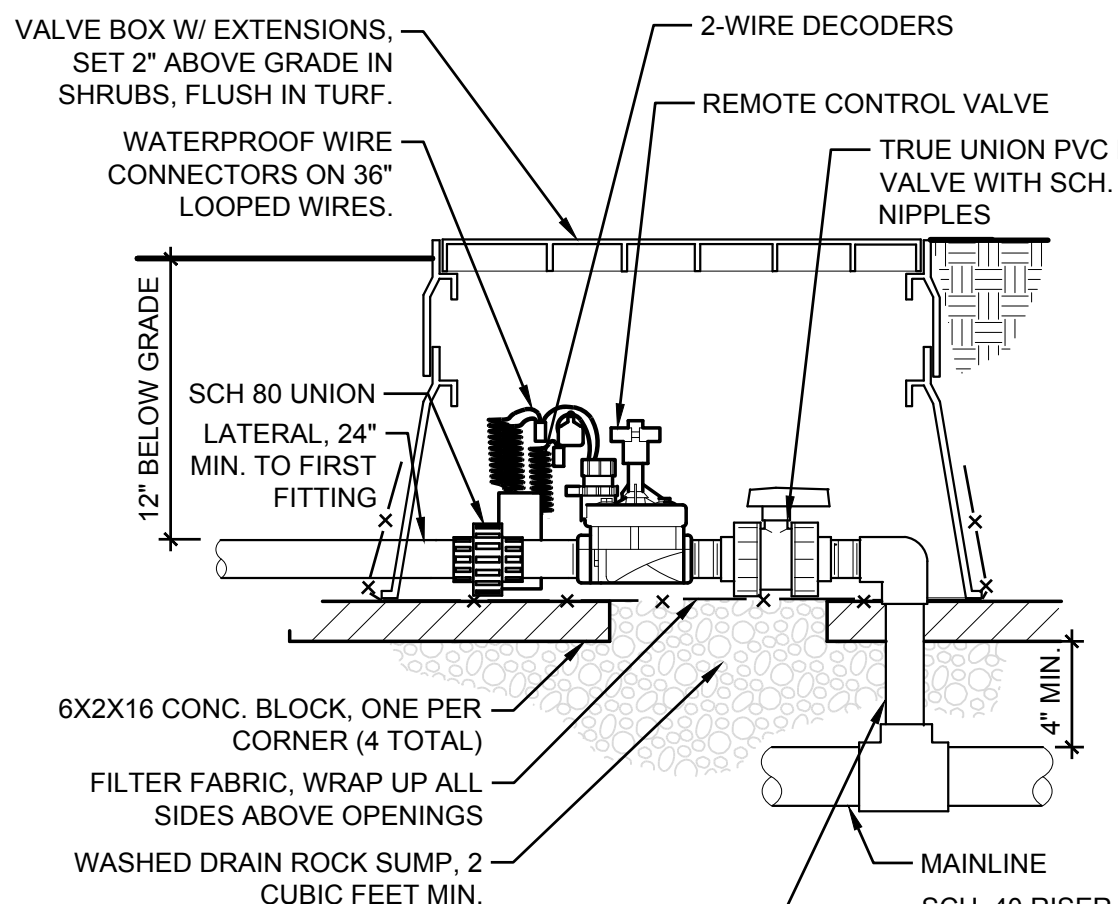
3 GATE VALVE
1 1/2" = 1'-0"



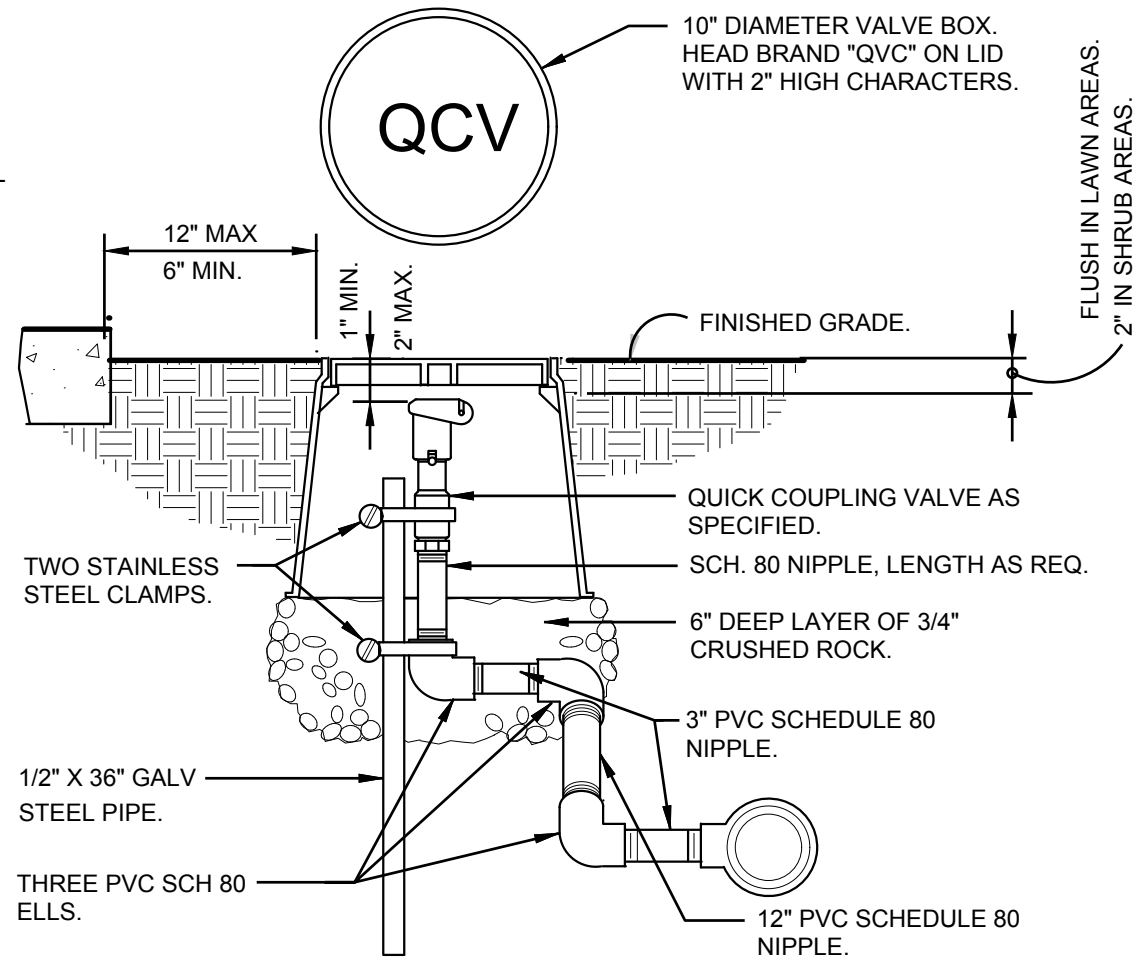
4 QUICK COUPLER BLOW-OUT ON POC
NTS



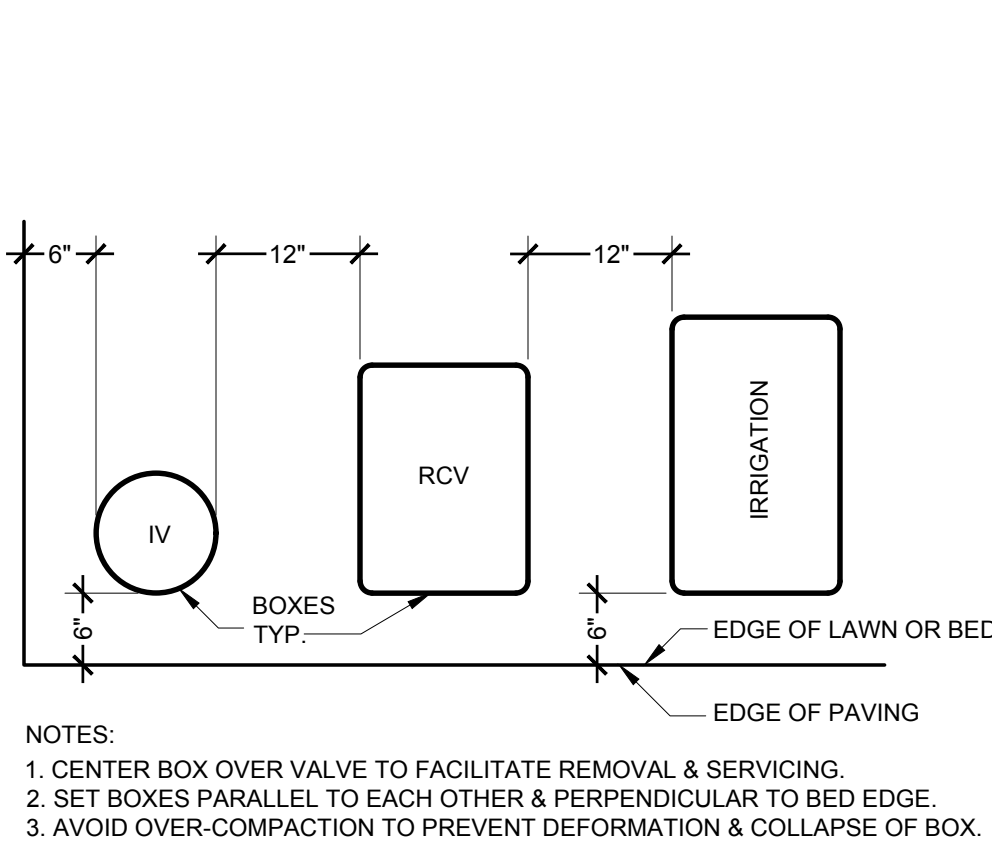
5 PVC BALL ISOLATION VALVE
NTS



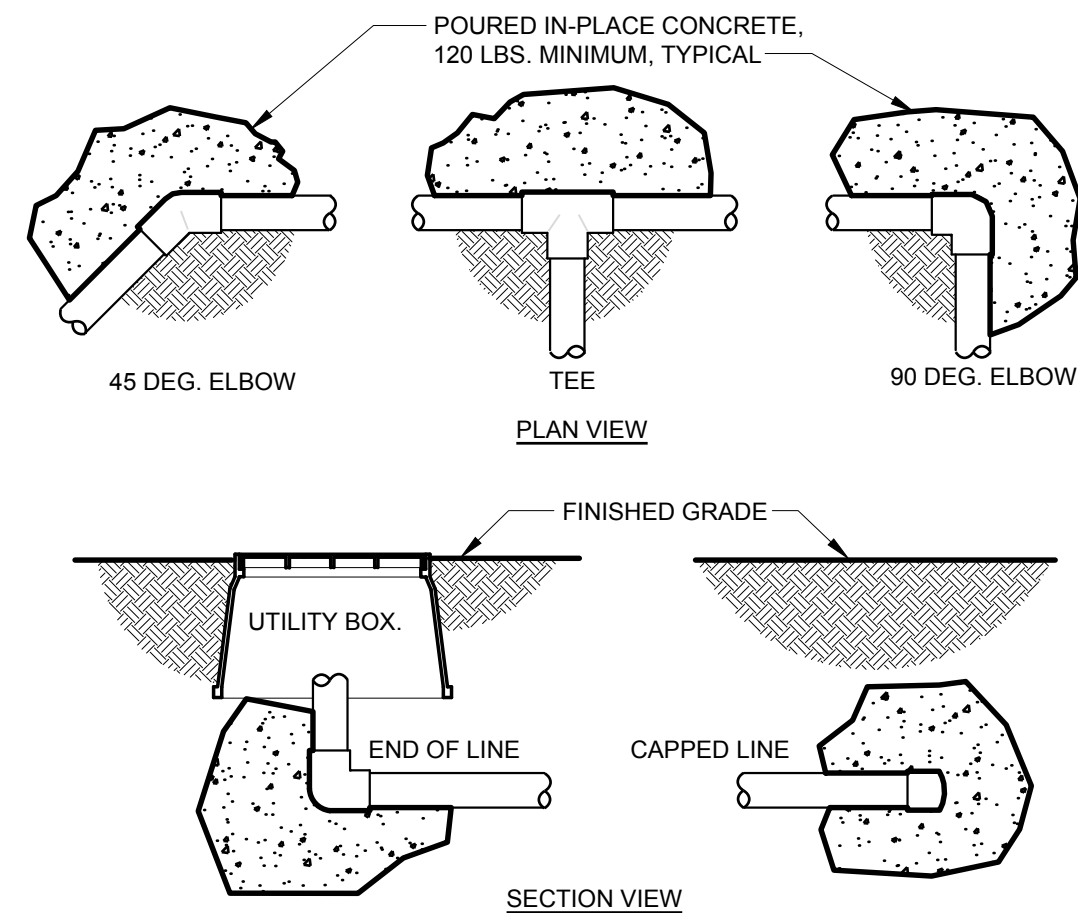
6 REMOTE CONTROL VALVES
NTS



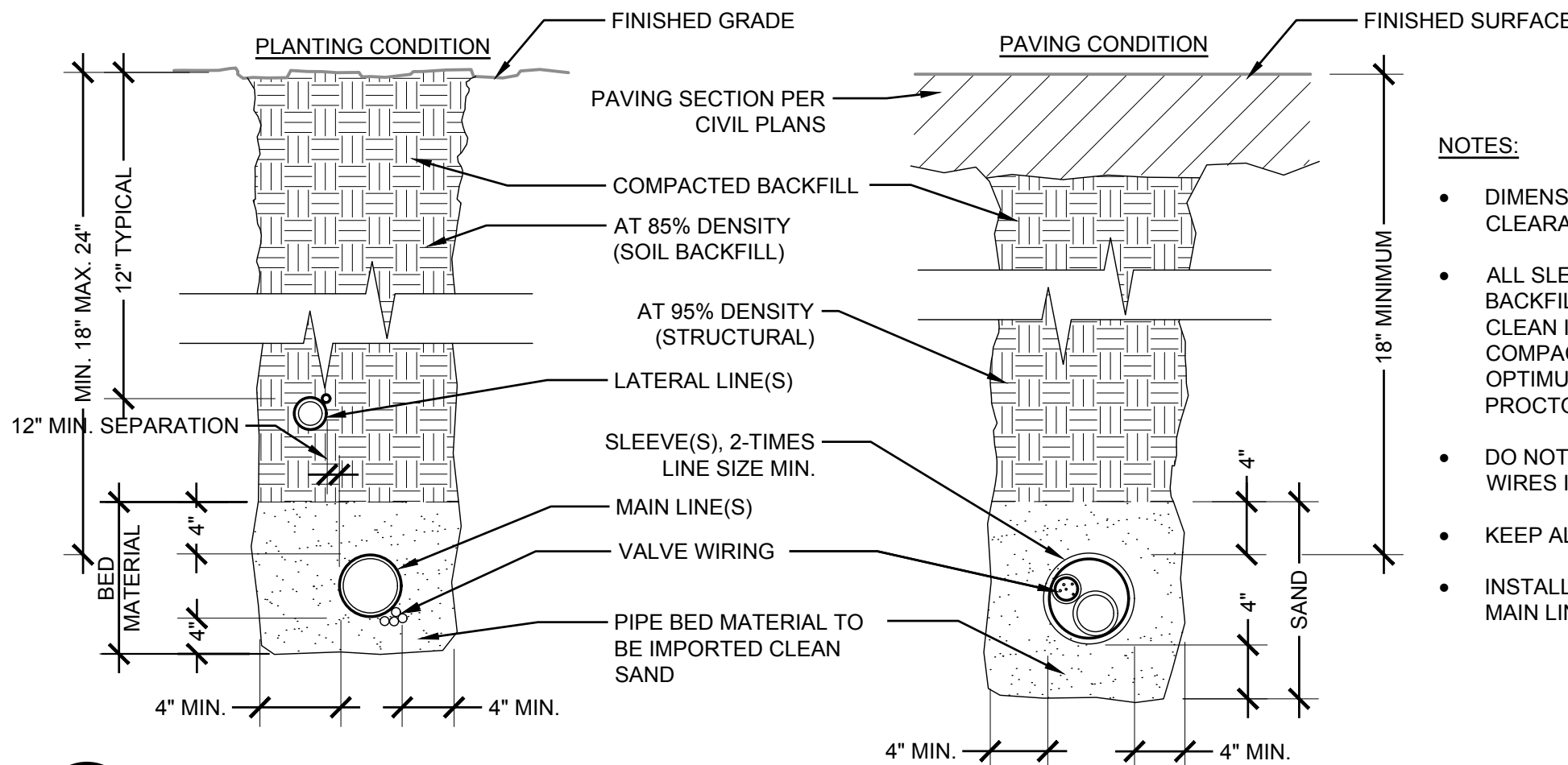
7 QUICK COUPLER IN VALVE BOX
1 1/2" = 1'-0"



8 VALVE BOX INSTALLATION
3/4" = 1'-0"

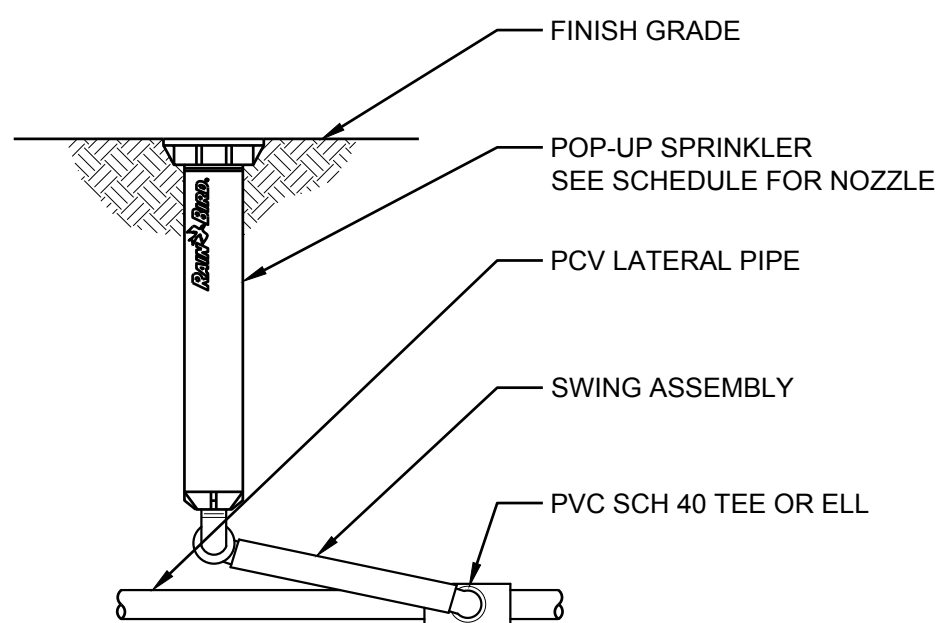


9 THRUST BLOCKING
1" = 1'-0"

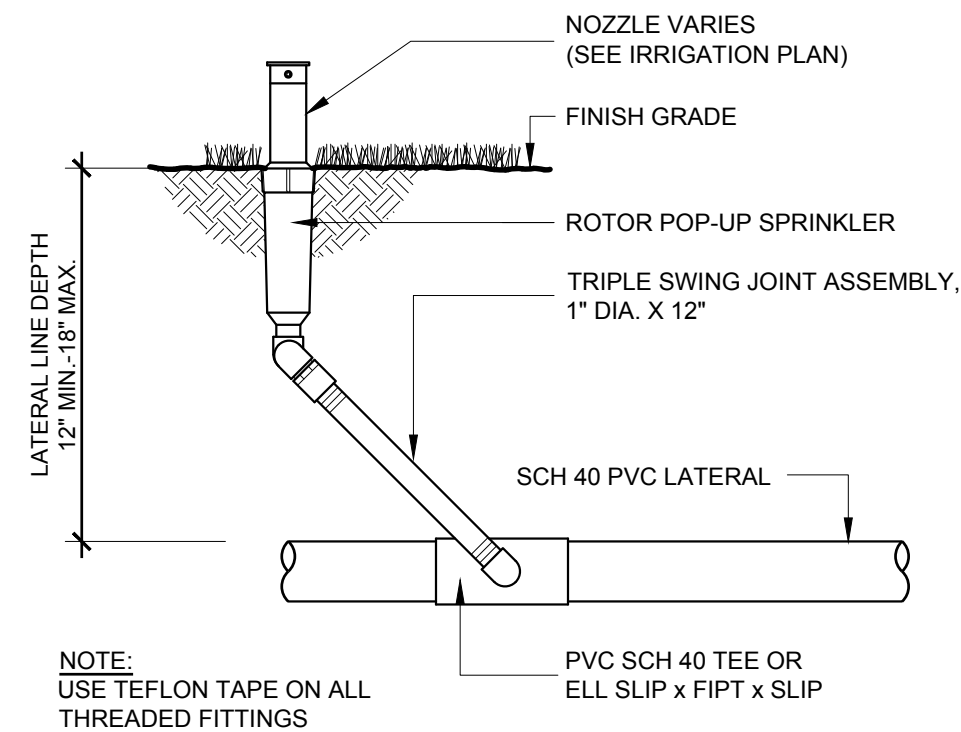


10 TRENCHING & SLEEVING
NTS

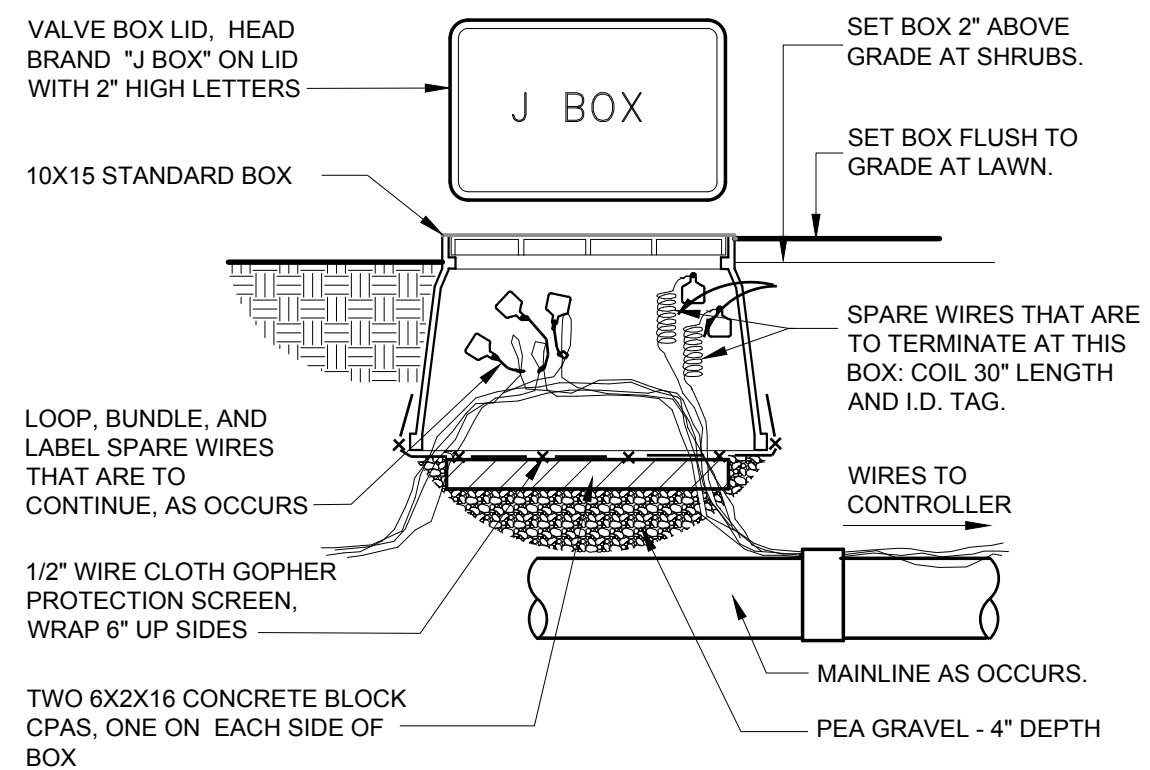
- NOTES:
- DIMENSIONS ARE MINIMUM CLEARANCES.
 - ALL SLEEVING TRENCH BACKFILL MATERIAL SHALL BE CLEAN IMPORTED SOIL AND BE COMPACTED TO MIN. 95% OPTIMUM DENSITY (MODIFIED PROCTOR).
 - DO NOT TAPE OR BUNDLE WIRES IN SLEEVES.
 - KEEP ALL PIPES 12" APART
 - INSTALL TRACER WIRE WITH MAIN LINE



11 POP-UP SPRAY HEAD
3" = 1'-0"



12 POP-UP ROTOR HEAD
1/8" = 1'-0"

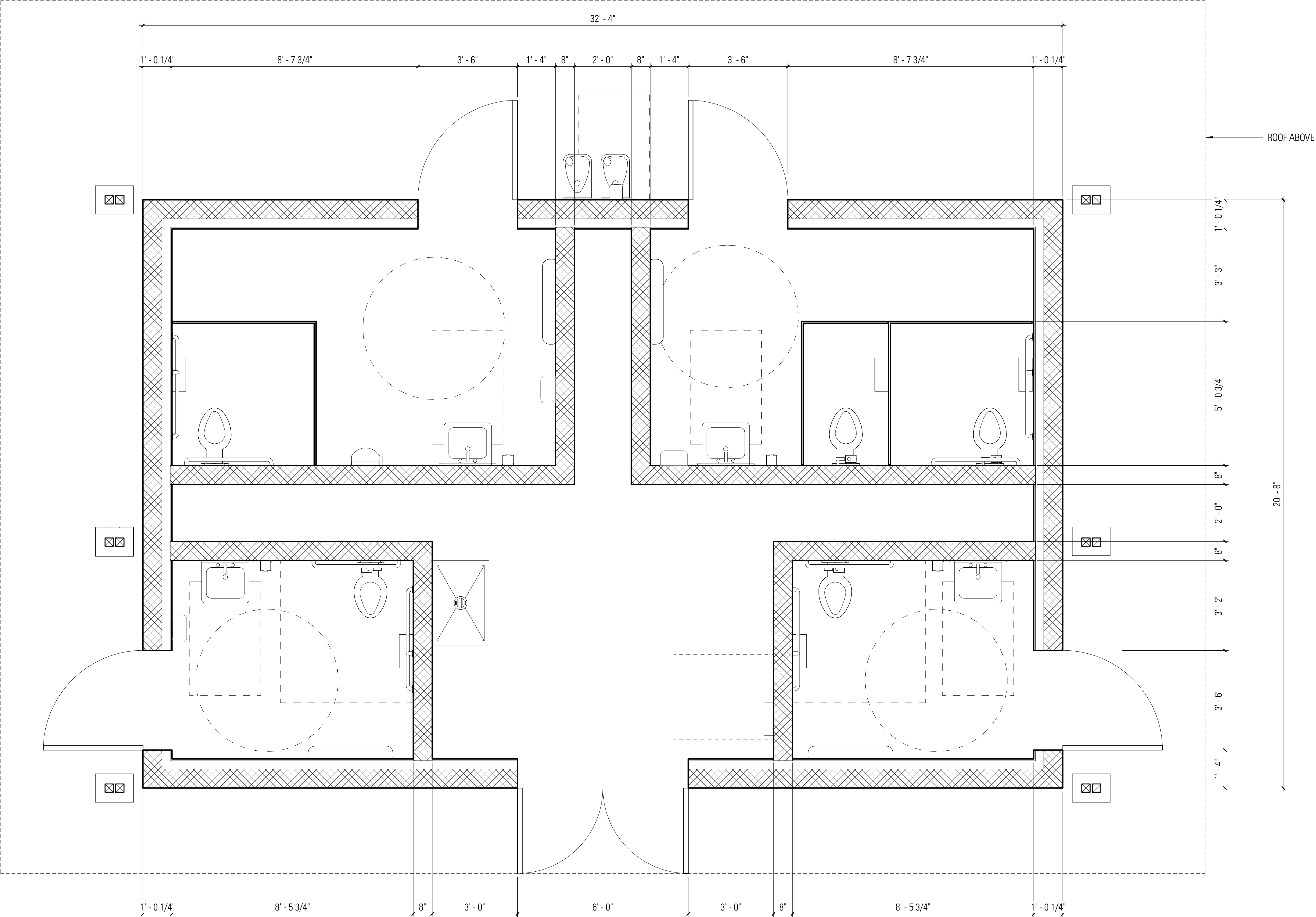


13 WIRE BUNDLE JUNCTION BOX
3/4" = 1'-0"

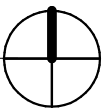
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1 LEVEL 1 - RESTROOM BUILDING
1/2" = 1'-0"

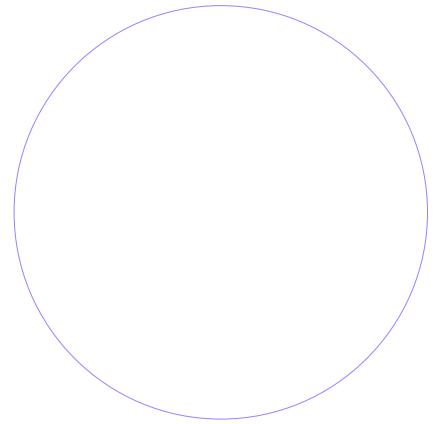


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				DATE

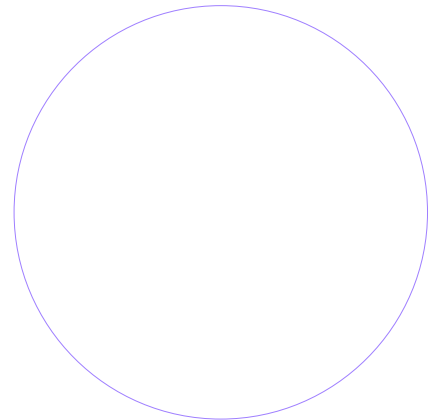
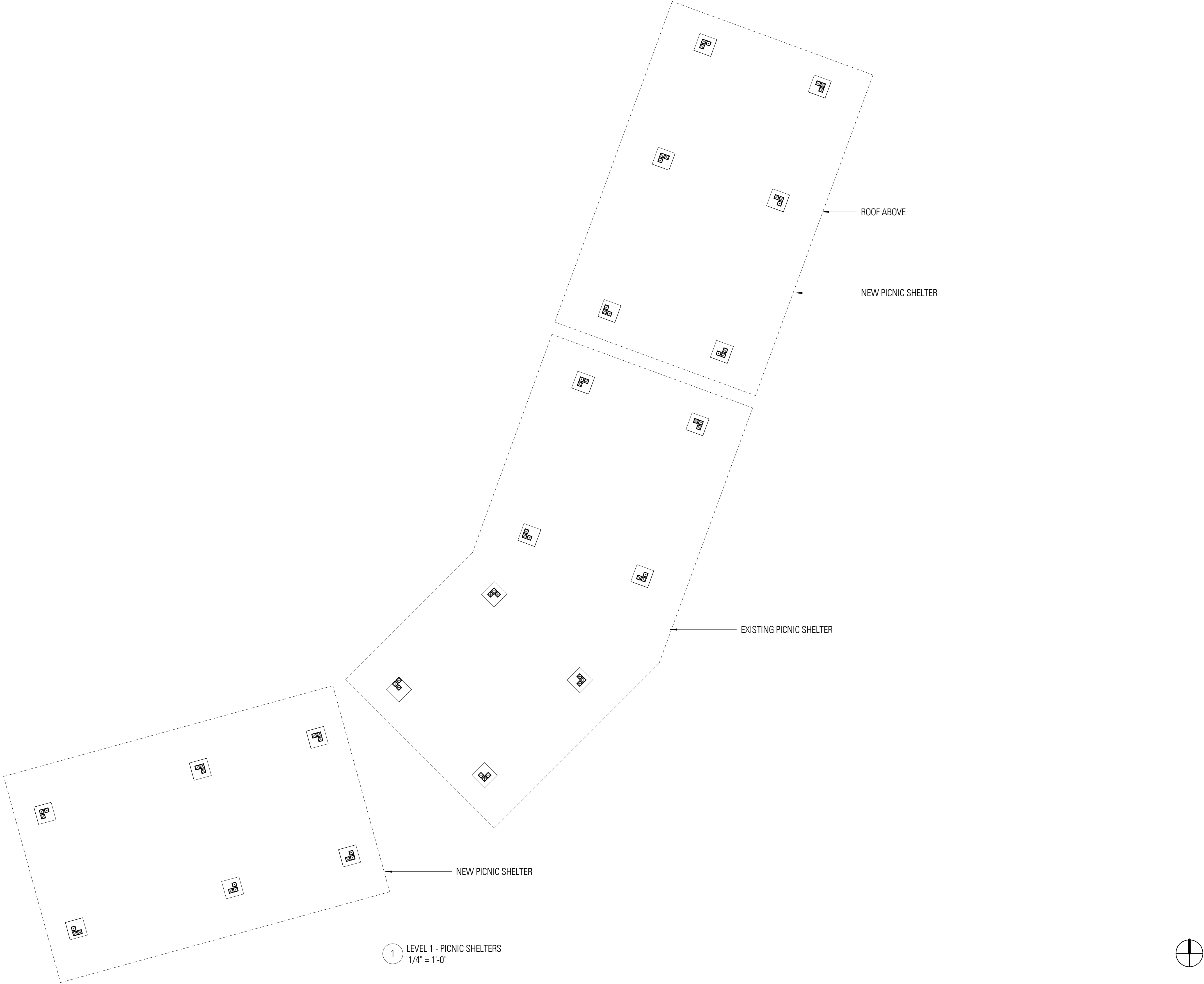


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**132ND SQUARE PARK
STORMWATER RETROFIT**

SHEET

X
X



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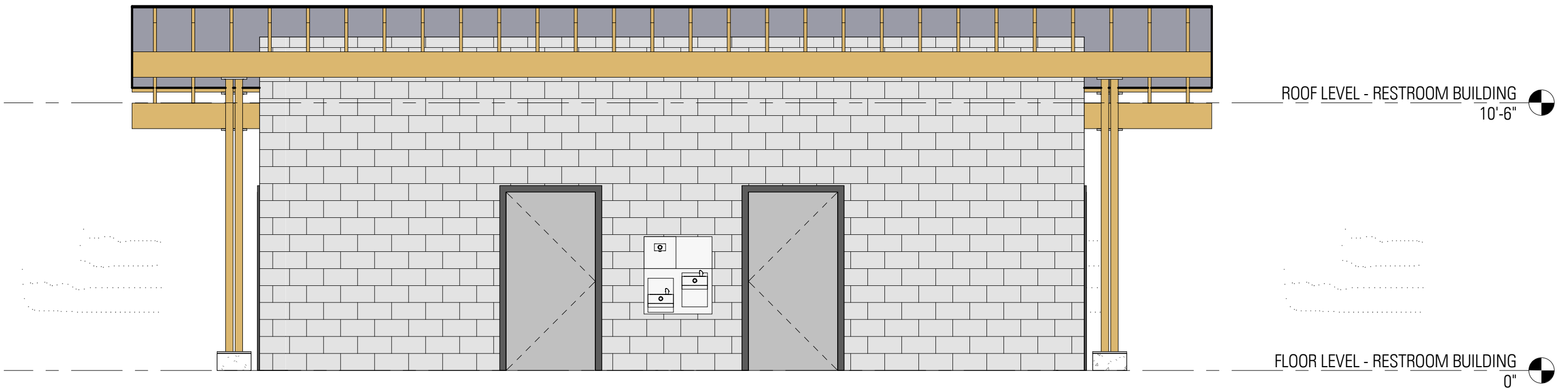
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**132ND SQUARE PARK
STORMWATER RETROFIT**

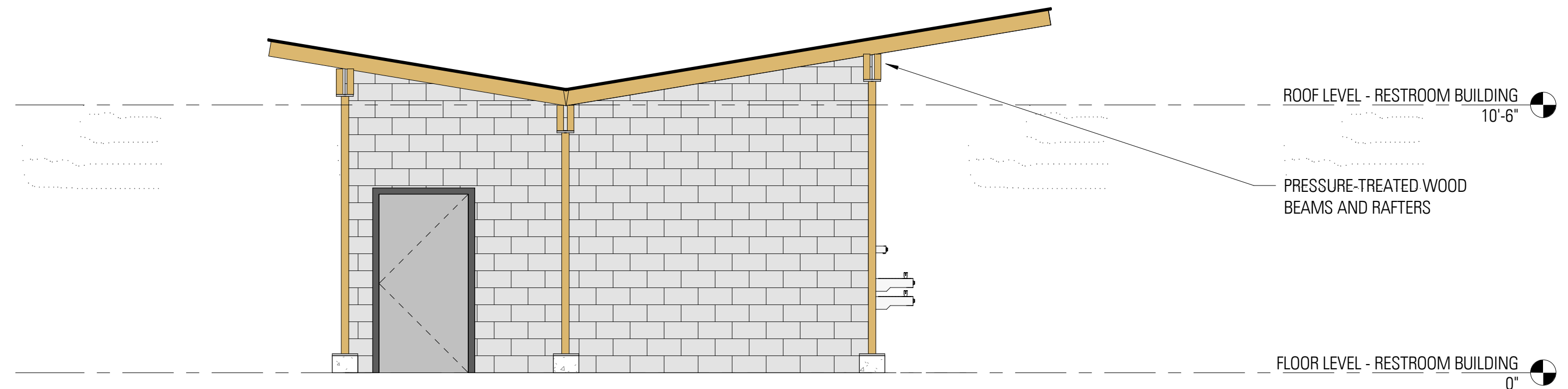
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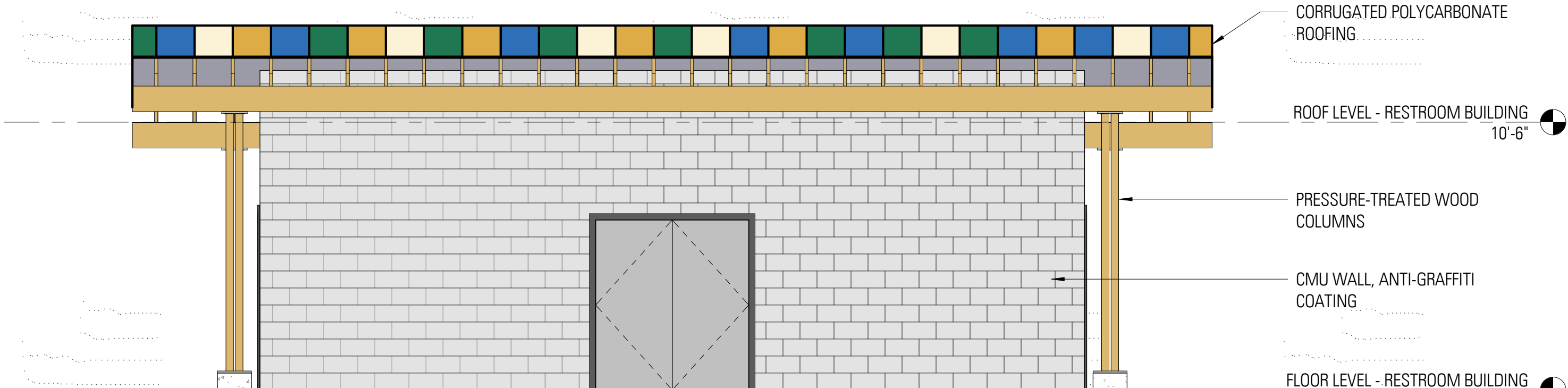
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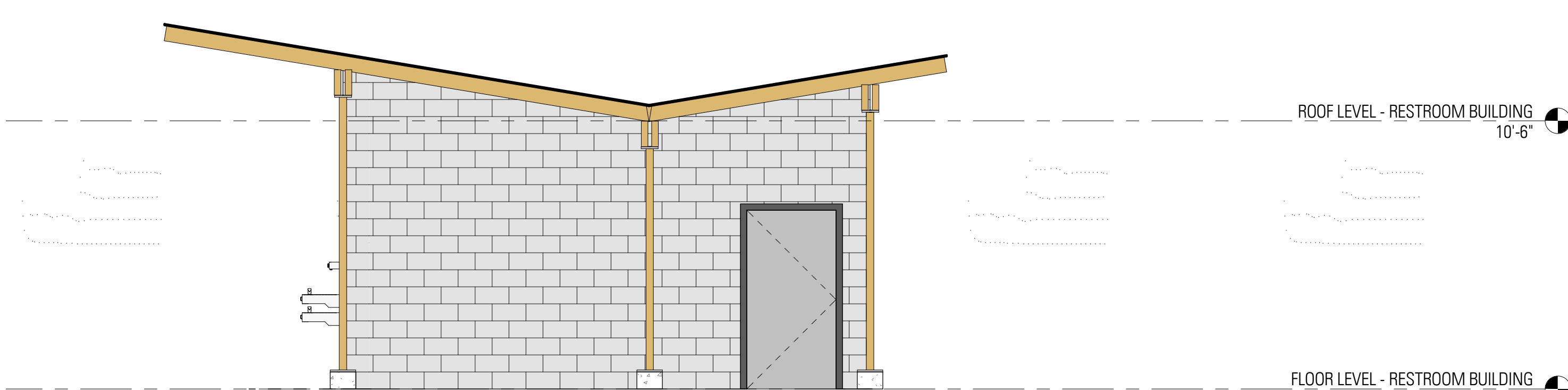
1 NORTH ELEVATION - RESTROOM BUILDING
1/4" = 1'-0"



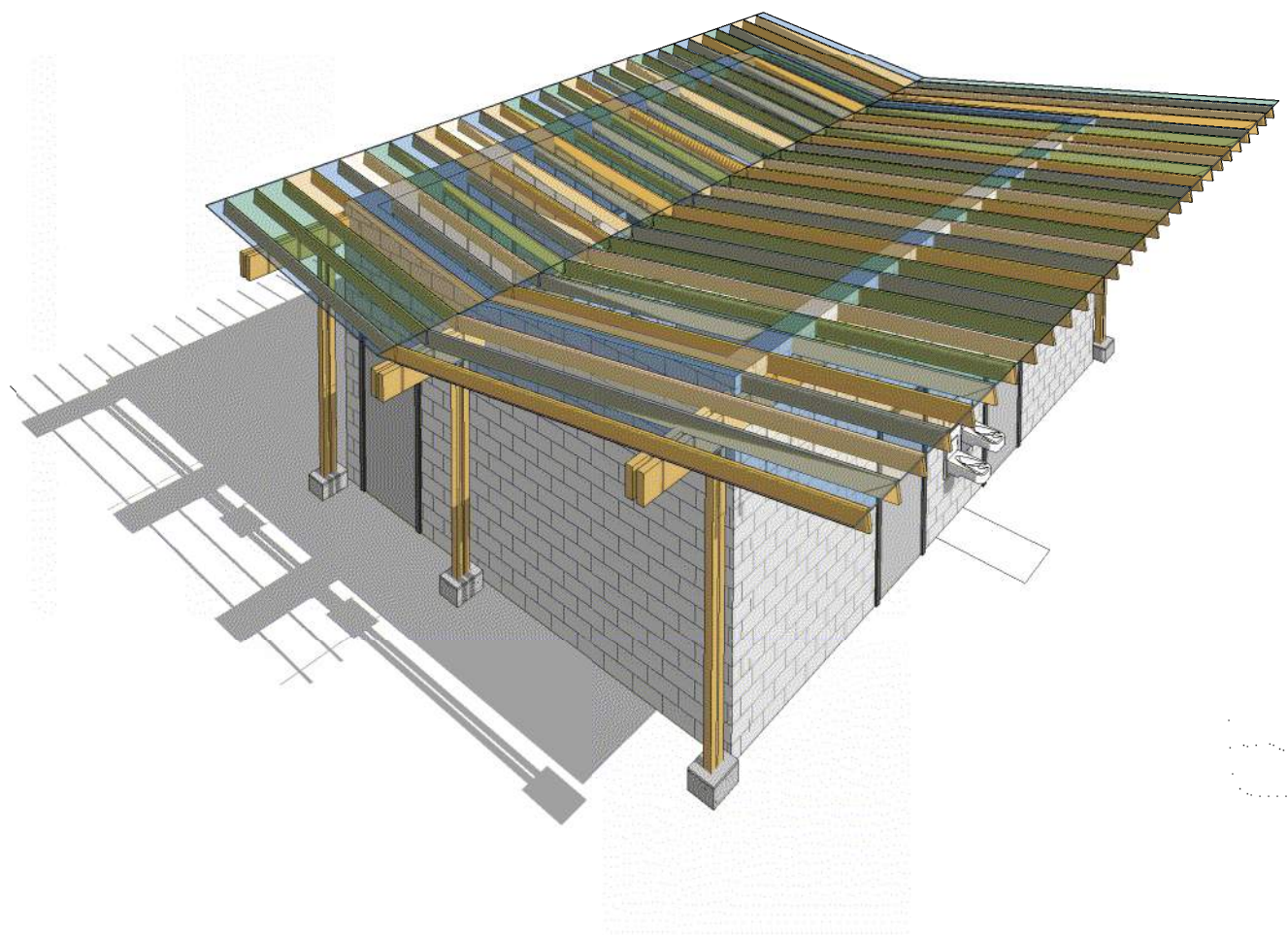
2 EAST ELEVATION - RESTROOM BUILDING
1/4" = 1'-0"



3 SOUTH ELEVATION - RESTROOM BUILDING
1/4" = 1'-0"



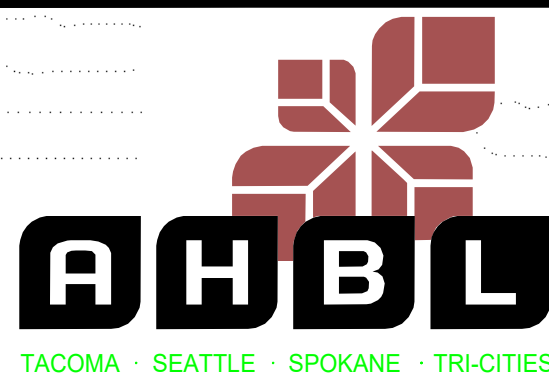
4 WEST ELEVATION - RESTROOM BUILDING
1/4" = 1'-0"



5 AERIAL PERSPECTIVE



6 NW CORNER PERSPECTIVE



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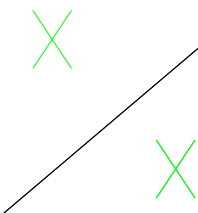
Know what's below.
Call before you dig.

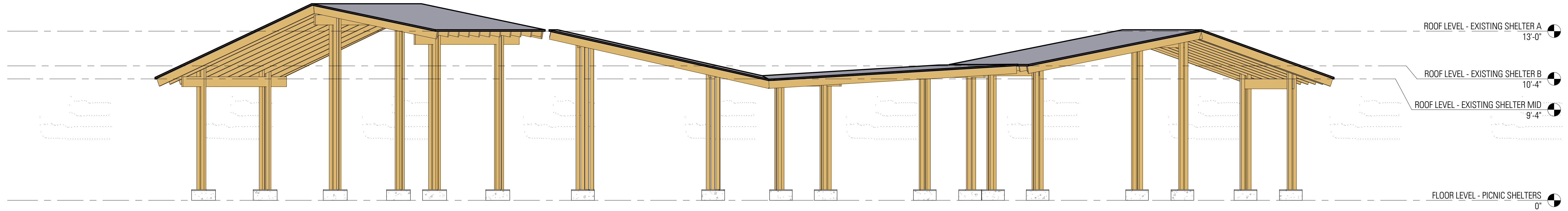
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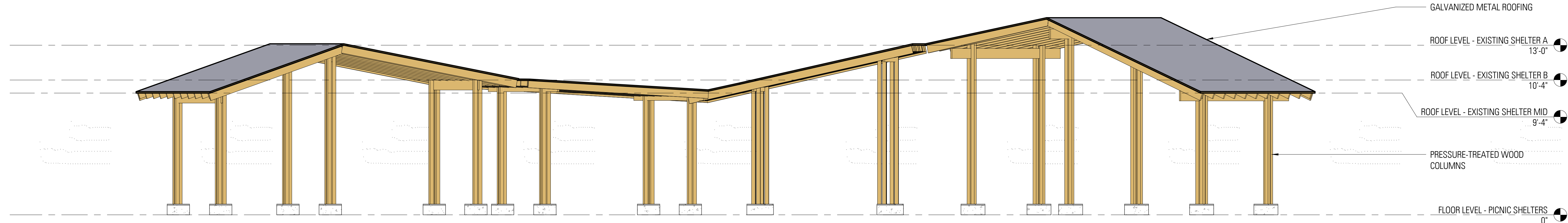
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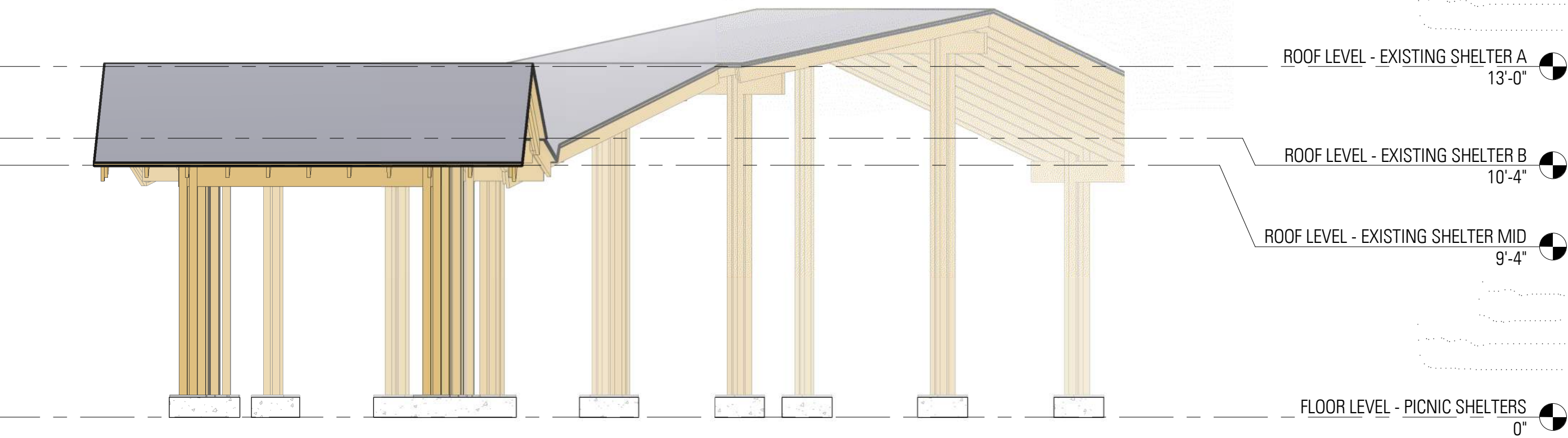




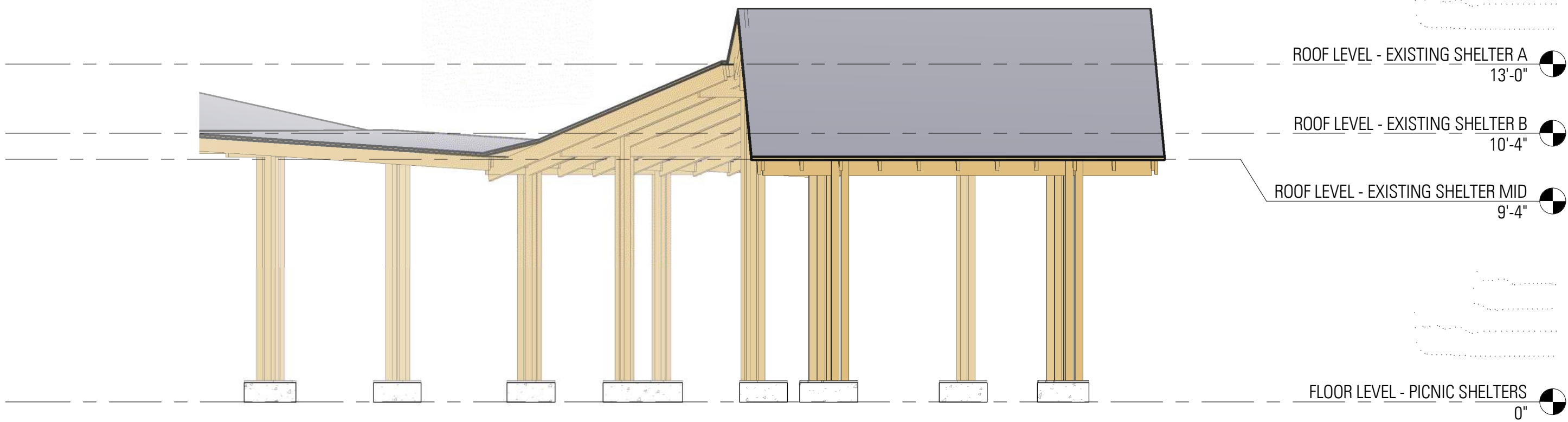
1 EAST ELEVATION - PICNIC SHELTERS
1/4" = 1'-0"



2 WEST ELEVATION - PICNIC SHELTERS
1/4" = 1'-0"



3 NORTH ELEVATION - PICNIC SHELTERS
1/4" = 1'-0"



4 SOUTH ELEVATION - PICNIC SHELTERS
1/4" = 1'-0"

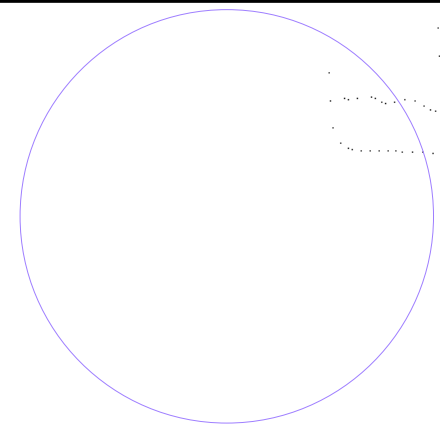


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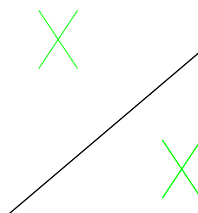




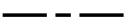

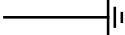






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132ND SQUARE PARK
STORMWATER RETROFIT

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ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	LIGHTING/POWER CONTROL PANEL
	BRANCH CIRCUIT WIRING AND CONDUIT AS REQUIRED FOR CKTS DEVICES AND EQUIP INDICATED ON PLANS. (WIRING AND CONDUIT SIZE MAY NOT APPEAR ON PLANS). PROVIDE CONDUCTORS AND CONDUIT PER NEC CODE. #12 AWG, 1/2" C. MIN. EMT OR RIGID STEEL. ↓ INDICATES EQUIP GND. ↓ INDICATES ISOLATED GROUND.
	CONDUIT UNDER GROUND OR FLOOR
	BRANCH CIRCUIT HOME RUN 3/4" MIN.
	GROUNDING ELECTRODE PER CODE
	VAULT PER DESCRIPTION
	FIELD LIGHT POLE
	DRIVEWAY/PARKING LIGHT POLE
	DUPLEX RECEPTACLE
	LIGHT FIXTURE
	LIGHTING/POWER PANEL

GENERAL NOTES

1. PROVIDE COMPLETE WORK FOR REQUIREMENTS AS DESCRIBED ON THIS PAGE.
2. INSTALLATION SHALL COMPLY WITH APPLICABLE CODES, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: 2017 NATIONAL ELECTRICAL CODE (NEC), WASHINGTON STATE ADMINISTRATIVE CODE (WAC), AND 2015 WASHINGTON NON-RESIDENTIAL ENERGY CODE (NREC).
3. PROVIDE ALL MATERIAL AND LABOR RELATED TO THE INSTALLATION OF ELECTRICAL DEVICES AND CONDUIT ROUTING UNDERGROUND.
4. DO NOT TAKE MEASUREMENTS FROM PLANS FOR DEVICE LOCATIONS. FIELD VERIFY EXACT DEVICE, EQUIPMENT LOCATIONS, AND MOUNTING HEIGHTS WITH OWNER'S REPRESENTATIVE FOR PROPER INSTALLATION.
5. RACEWAYS, WIRE SIZES AND CIRCUITS AS SHOWN REPRESENT INTENT OF INSTALLATION, BUT MAY NOT NECESSARILY REPRESENT THE COMPLETE WIRING COUNTS AND MINIMUM SIZES FOR CONNECTING THE CIRCUITS SHOWN. CONTRACTOR SHALL INCLUDE IN THE BID, ALL REQUIRED RACEWAY SIZES AND NUMBER OF CONDUCTORS IN ORDER TO PROVIDE ALL CIRCUITS SHOWN.
6. INCLUDE COST OF PROVIDING ALL ELECTRICAL CONNECTIONS AS REQUIRED FOR FULL OPERATION OF ALL OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT. SEE ARCHITECTURAL DRAWINGS TO VERIFY LOCATIONS.
7. VERIFY ALL LIGHT FIXTURE TYPES, VOLTAGE, AND MOUNTING METHODS TO SUIT SUPPORTING SURFACES. ALL FIXTURE MOUNTING HEIGHTS SHALL BE APPROVED OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. VERIFY CORRECT CATALOG NUMBERS PRIOR TO ORDERING OF FIXTURES. ALL SUBSTITUTE LIGHT FIXTURES MUST BE SUBMITTED FOR APPROVAL PRIOR TO BID. APPROVED SUBSTITUTES WILL BE IDENTIFIED IN AN ADDENDUM. PROVIDE ONLY THE APPROVED SUBSTITUTE FIXTURES OR THE FIXTURES AS SPECIFIED. LIGHT FIXTURES WITHOUT PRIOR APPROVALS WILL NOT BE ALLOWED FOR SUBSTITUTION AFTER BIDS.
8. LABEL ALL EQUIPMENT, J-BOXES, RACEWAY WITH SERVING PANEL NAME AND CIRCUIT NUMBER(S).
9. INSTALLATION OF UNDERGROUND WIRING SYSTEMS SHALL INCLUDE EXCAVATION, CUTTING, PATCHING, BACKFILL, AND COMPACTION. DO NOT CUT OR DAMAGE ANY EXISTING UTILITIES, STRUCTURAL MEMBERS, OR BUILDING FOUNDATIONS. VERIFY EXISTING CONDITIONS PRIOR TO EXCAVATION WORK. INCLUDE COST FOR UNDERGROUND LOCATOR SERVICE TO IDENTIFY LOCATIONS OF EXISTING COMPONENTS. HAND EXCAVATE IN LOCATIONS WHERE EXISTING UNDERGROUND COMPONENTS ARE SUBJECT TO DAMAGE. REPAIR DAMAGE TO EXISTING UTILITIES OR BUILDING STRUCTURE TO OWNER'S SATISFACTION AT THE CONTRACTORS EXPENSE.
10. RACEWAY ROUTING IS SCHEMATIC AND DOES NOT SHOW EXACT PHYSICAL ARRANGEMENT OF EQUIPMENT. WHERE INDICATED ON DRAWINGS, JUNCTION BOXES AND PULLBOXES ARE MINIMUM REQUIREMENTS. PROVIDE FITTINGS AND PULLBOXES OF ADEQUATE SIZE IN RACEWAY SYSTEMS WHEREVER NECESSARY OR REQUIRED BY THE NEC OR LOCAL CODES. PROVIDE EXPANSION JOINT FITTINGS FOR RACEWAY PASSING THROUGH NEW OR EXISTING EXPANSION JOINTS INSTALLED BETWEEN BUILDINGS. VERIFY EXACT LOCATIONS AND DETAILS OF EXPANSION JOINTS PRIOR TO WORK. COORDINATE ALL RACEWAY ROUTING, PULLBOXES, AND EQUIPMENT LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS OF EQUIPMENT INSTALLATIONS.
11. PROVIDE PULL-WIRES IN ALL EMPTY CONDUITS.
12. PRIOR TO PREPARATION OF BID, VISIT JOBSITE AND EXAMINE EXISTING CONDITION.

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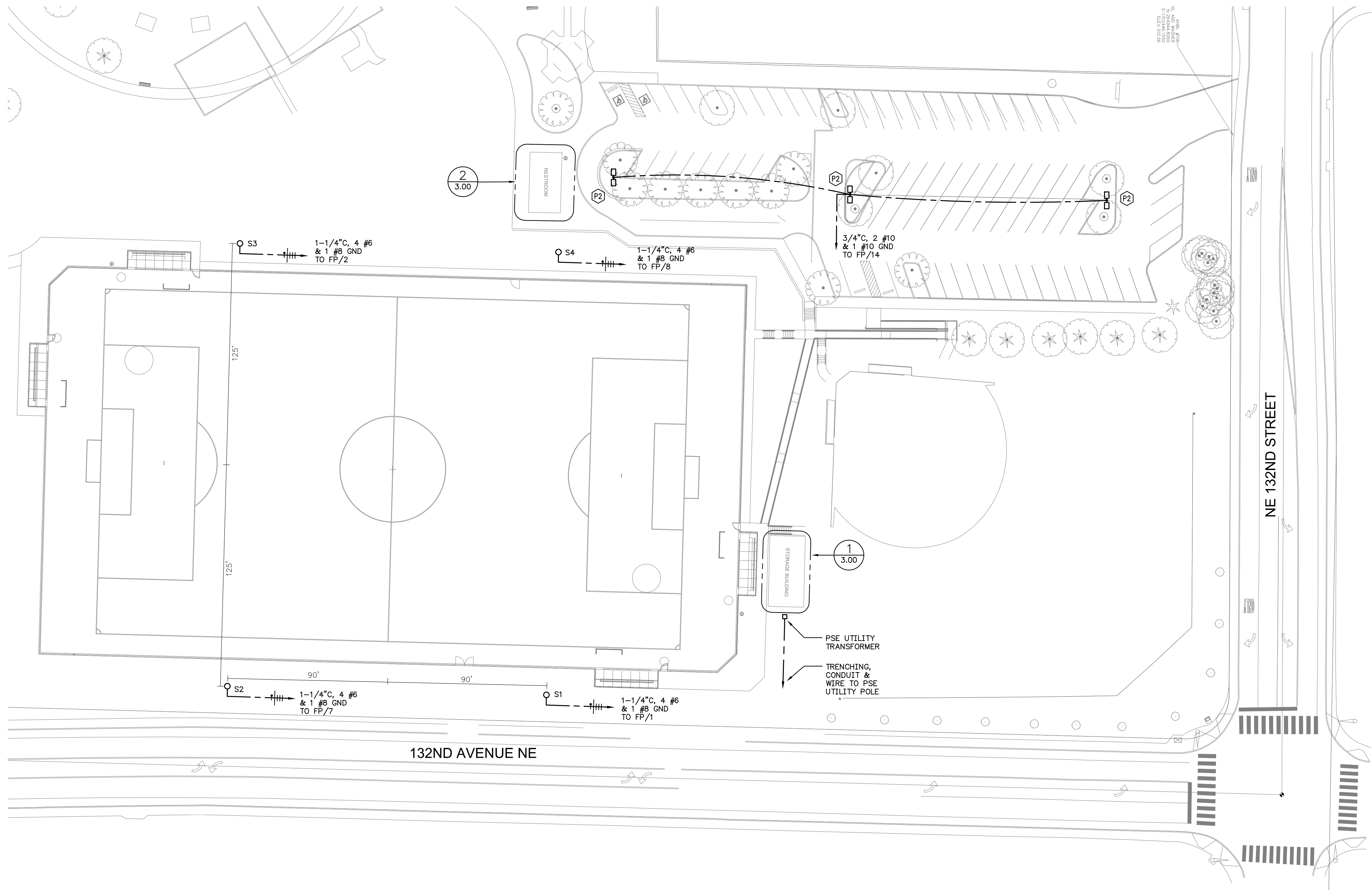


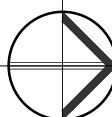
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**132ND SQUARE PARK
STORMWATER RETROFIT**
ELECTRICAL LEGEND AND NOTES

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 **ELECTRICAL SITE PLAN**
SCALE: 1" = 30'


DWG. NO. **E2.00**

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1 PRE-FAB STORAGE BUILDING - ELECTRICAL PLAN

1/2"x2" PULL SLOT

COVER WITH IDENTIFICATION LOGO

SKID RESISTANT SURFACE

13-1/2"

20-1/2"

OPEN BOTTOM

(2) 2-1/2"x4" MOUSEHOLES

3/8-16 UNC STAINLESS STEEL HEX HEAD BOLT W/ WASHER (TYP. OF 2 PLACES)

TYPICAL HANDHOLE AND COVER

2 RESTROOM BUILDING - ELECTRICAL PLAN

UTILITY SERVICES TRENCH DETAIL

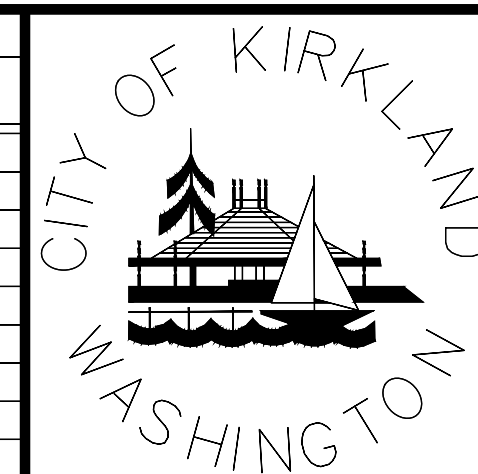
ELECTRICAL PANEL SCHEDULE FOR PANEL 'FP'

GROUND WIRE TO LIGHT FIXTURE
 POLE BASE COVER, SECURE TO BASE
 CAULK ALL AROUND 2" GROUT
 24" ROUND PRE-CAST CONCRETE LIGHT POLE BASE
 FINISHED GRADE
 LIGHT POLE, SEE LIGHTING FIXTURE SCHEDULE
 HANDHOLE/COVER
 GROUND LUG TO POLE
 CONDUIT BUSHING
 2 #3 TIE AT TOP
 1/2" MIN.
 CONDUIT PER CIRCUIT
 SET AND COMPACT AGAINST NATIVE EARTH
 4 #5 VERTICAL
 TYPICAL LIGHTING CIRCUIT CONDUIT
 48" L. 3/4" DIA. ANCHOR BOLTS (TYP. OF 4)
 #3 TIE BAR AROUND BOLTS AT 12" O.C. (TYP. OF 3 PLACES)

DWG. NO. **E3.00**



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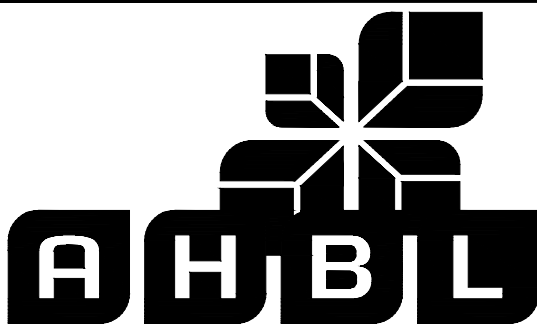
ELECTRICAL DETAILS AND SCHEDULE

SHEET

MECHANICAL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	COLD WATER (CW)		SUPPLY AIR-DUCT UP
	HOT WATER (HW)		EXHAUST/RETURN AIR - DUCT UP
	HOT WATER CIRC (HWC)		OUTSIDE AIR DUCT UP
	WASTE OR SAN. SEWER		SUPPLY AIR - DUCT DOWN
	VENT (V)		EXHAUST/RETURN AIR - DUCT DOWN
	GAS		OUTSIDE AIR DUCT DOWN
	CONDENSATE PIPING		SOUNDLINED DUCT
	REFRIGERANT GAS		DUCT UP (ROUND)
	REFRIGERANT LIQUID		DUCT DOWN (ROUND)
	PIPE DOWN		AIR TERMINAL SIZE, TYPE & CFM
	PIPE UP		DOOR LOUVER W/ SIZE
	BRANCH - TOP CONNECTION		CEILING AIR TERMINAL - SQUARE
	BRANCH - BOTTOM CONNECTION		CEILING AIR TERMINAL - ROUND
	BRANCH - SIDE CONNECTION		FLEXIBLE DUCT
	CAP END OF PIPE		VOLUME DAMPER (VD)
	FLOW DIRECTION		MOTORIZED DAMPER
	FLUSH CLEANOUT (FCO) OR SURFACE CLEANOUT (SCO) AS INDICATED		FIRE DAMPER (F.I.D.)
	WALL CLEANOUT (WCO)		FIRE/SMOKE DAMPER (CFSD) - COMBINATION
	CLEANOUT (CO)		SMOKE DAMPER (SD)
	DOWNSPOUT		BACKDRAFT DAMPER (BDD)
	VENT THRU ROOF (VTR)		FLEXIBLE CONNECTION (DUCT)
	GATE VALVE (GV)		TURNING VANES (TV)
	GLOBE VALVE		ROOM TEMPERATURE SENSOR/THERMOSTAT
	VALVE IN RISER		ROOM TEMPERATURE SENSOR/THERMOSTAT WITH GUARD
	BUTTERFLY VALVE		DRAIN VALVE WITH HOSE CONNECTION OR HOSE BIBB
	PRESSURE REDUCING VALVE (PRV)		BACKFLOW PREVENTER ASSEMBLY
	CHECK VALVE (CV)		FLOOR DRAIN (FD)
	BALL VALVE (BV)		FLOOR & FUNNEL DRAIN (F&FD)
	FREEZE-PROOF WALL HYDRANT (FWH) HOSE BIBB (HB)		AUTOMATIC OR MANUAL AIR VENT (AAV, MAV)
	TEMPERATURE/PRESSURE RELIEF VALVE (T&PV)		VACUUM BREAKER
	GAS COCK		PRESSURE GAUGE
	AQUASTAT		THERMOMETER
	PUMP		METER
	RELIEF VALVE		REDUCED PRESSURE BACKFLOW PREVENTER
	BALANCING VALVE		POINT OF CONNECTION
	REDUCER		DEMOLITION SCOPE OF WORK
	STRAINER		
	UNION		

MECHANICAL GENERAL NOTES	
<div>1. STANDARD CURRENT TRADE PRACTICES & METHODS APPLY TO THIS PROJECT. ALL WORK IS TO MEET REQUIREMENTS OF ALL CURRENT CODE & LOCAL JURISDICTIONAL REQUIREMENTS AND AMENDMENTS. THESE CODES INCLUDE BUT ARE NOT LIMITED TO WASHINGTON STATE ENERGY CODE, INTERNATIONAL MECHANICAL CODE, INTERNATIONAL BUILDING CODE, UNIFORM PLUMBING CODE, NFPA, INTERNATIONAL FIRE CODE, & LOCAL JURISDICTIONAL REQUIREMENTS. COMPLY WITH ALL MANUFACTURER'S REQUIREMENTS. COORDINATE WITH OWNER'S REPRESENTATIVE FOR ANY VARIANCES.</div> <div>2. DRAWINGS ARE DIAGRAMMATIC ONLY & NOT INTENDED TO SHOW ALL DETAILS OF THE WORK. VERIFY LOCATION & MEASUREMENTS OF ALL ITEMS ON THE JOB SITE PRIOR TO INSTALLATION. CONTRACTOR SHALL PROVIDE ALL OFFSETS & ADDITIONAL DUCTWORK & PIPING AS NECESSARY TO AVOID STRUCTURAL ELEMENTS ON THE PROJECT. CONTRACTOR SHALL PRODUCE SHOP DRAWINGS & COORDINATE WITH OTHER TRADES. THERE SHALL BE NO ADDITIONAL COST TO THE OWNER FOR THIS COORDINATION OR FOR EXTRA MATERIAL REQUIRED IN ORDER TO ACCOMPLISH THIS TASK.</div> <div>3. PROVIDE COMPLETE & FULLY-OPERATING SYSTEMS.</div> <div>4. COORDINATE LOCATIONS OF ALL EQUIPMENT & APPURTENANCES WITH OTHER TRADES.</div> <div>5. ALL EQUIPMENT SHALL BE REGULARLY CATALOGED ITEMS OF THE MANUFACTURER & SHALL BE SUPPLIED AS A COMPLETE UNIT IN ACCORDANCE WITH THE MANUFACTURER'S STANDARD SPECIFICATIONS. ANY OPTIONAL ITEMS REQUIRED FOR PROPER INSTALLATION SHALL BE INCLUDED UNLESS OTHERWISE NOTED.</div> <div>6. ANY CUTTING, PATCHING & PAINTING OF BUILDING ELEMENTS & FINISHED SURFACES IS TO BE DONE BY THE GENERAL CONTRACTOR.</div> <div>7. ALL APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTENED IN PLACE.</div> <div>8. ALL EQUIPMENT SHALL BE LABELED PER PLANS & THE REQUIREMENTS OF THE SPECIFICATIONS.</div> <div>9. RATING OF ACCESS DOORS AND/OR ACCESS PANELS THROUGH FIRE-RATED WALLS, SHAFTS, CEILINGS, ETC., MUST EQUAL THE FIRE RATING OF THE MATERIAL PENETRATED.</div> <div>10. CAULK & FLASH ALL PENETRATIONS PER CODE.</div> <div>11. ADJUSTING & BALANCING: ADJUST EACH PART OF SYSTEM TO ENSURE PROPER FUNCTIONING OF ALL CONTROLS & SPECIFIED AIR DISTRIBUTION. LEAVE ENTIRE SYSTEM IN OPERATING CONDITION.</div> <div>12. PROVIDE OPERATING & MAINTENANCE MANUALS (O&MS), RECORD DRAWINGS, & OWNER TRAINING PER SPECIFICATION.</div> <div>13. PROVIDE NATIONAL ELECTRICAL CODE (NEC) MINIMUM WORKING CLEARANCE IN FRONT OF ANY ELECTRICAL PANEL, INCLUDING PANELS ON EQUIPMENT. RE-ROUTE OR OFFSET PIPING AND/OR DUCTWORK AS REQUIRED.</div> <div>14. DOMESTIC HOT WATER CIRCULATORS SHALL BE CONTROLLED BY AN AQUASTAT, & SHALL SHUT DOWN WHEN WATER TEMPERATURE IS AT SETPOINT. DOMESTIC HOT WATER CIRCULATION SHALL HAVE SHUT-OFF CAPACITY BASED ON OCCUPANCY AND PERIODS OF DEMAND.</div> <div>15. DOMESTIC PIPING SHALL BE INSULATED IN ACCORDANCE WITH THE WASHINGTON STATE ENERGY CODE. DOMESTIC HOT WATER PIPE INSULATION SHALL BE K=0.24, 1" THICK, EXCEPT RUNOUTS UP TO 12' SHALL BE 1/2" THICK. DOMESTIC COLD WATER PIPE INSULATION SHALL BE K=0.24, 1" THICK FOR PIPING LARGER THAN 1", & 1/2" THICK FOR PIPING 1" & LESS & RUNOUTS LESS THAN 2" DIAMETER UP TO 12'. INCREASE THICKNESS BY 1/2" FOR PIPING EXPOSED DIRECTLY TO OUTDOOR CONDITIONS.</div> <div>16. SERVICE WATER PIPING INSULATION CONDUCTIVITY IS NOT TO EXCEED 0.27 BTU PER INCH/H*SQ.FT*DEGREE F. INSULATION THICKNESS SHALL BE PER TABLE C403.2.9.</div> <div>17. PROTECT PIPING INSULATION PER REQUIREMENTS OF WSEC C403.2.9.1</div> <div>18. PROVIDE COMMISSIONING OF THE HVAC SYSTEM. INCLUDE FUNCTIONAL TESTING SEQUENCE OF OPERATION & TEST PROCEDURES PER WASHINGTON STATE ENERGY CODE. SEE SPECIFICATIONS FOR SPECIFIC EQUIPMENT TESTING REQUIREMENTS. ITEMS TO BE COMMISSIONED ARE: CONTROL SYSTEMS, AIR HANDLERS, EXHAUST FANS, PUMPS, CONDENSING UNITS, MAKE-UP AIR UNITS, AND WATER HEATERS. AIR SYSTEMS SHALL BE BALANCED SO AS TO FIRST MINIMIZE THROTTLING LOSSES, THEN ADJUSTED TO MEET DESIGN FLOW CONDITIONS. PROVIDE PRELIMINARY AND FINAL COMMISSIONING REPORTS. SUBMIT FIGURE C408.1.2.1 COMPLIANCE CHECKLIST FROM WASHINGTON STATE ENERGY CODE TO AUTHORITY HAVING JURISDICTION UPON COMPLETION OF PRELIMINARY COMMISSIONING REPORT. PROVIDE CLOSEOUT DOCUMENTS IN COMPLIANCE WITH C103.6</div>	<div>19. PROVIDE AIR SYSTEM BALANCING DEVICES, INCLUDING VOLUME DAMPERS, AND ZONE DAMPERS ON TERMINALS AS SHOWN ON PLANS. TEST AND BALANCE ALL SYSTEMS</div> <div>20. PROVIDE WATER SYSTEM BALANCING DEVICES, INCLUDING ISOLATION VALVES, BALANCING VALVES, AND FLOW MEASURING DEVICES AS SHOWN ON PLANS.</div> <div>21. CEILING FANS, EQUIPMENT, DIFFUSERS, & GRILLES SHALL BE COORDINATED WITH PLACEMENT OF LIGHT FIXTURES.</div> <div>22. VENTILATION SHALL BE PROVIDED PER IMC CHAPTER 4. MECHANICALLY VENTILATED SYSTEMS SHALL BE CAPABLE OF REDUCING THE OUTDOOR AIR SUPPLY TO THE MINIMUM REQUIRED BY CHAPTER 4 OF THE IMC.</div> <div>23. PROVIDE COMBINATION FIRE & SMOKE DAMPERS (CFSD) AND/OR FIRE DAMPERS WHERE REQUIRED BY CODE.</div> <div>24. TEMPERATURE CONTROLS SHALL BE MINIMUM OF 7-DAY PROGRAMMABLE TYPE PROVIDING SETPOINT TEMPERATURES, NIGHT SETBACK, MANUAL OVERRIDE, & MINIMUM 5-DEGREE DEADBAND. CONTROLS SHALL ALLOW FOR OPTIMUM START.</div> <div>25. HEAT PUMPS WITH AUXILIARY ELECTRIC HEAT SHALL HAVE CONTROLS COMPLYING WITH PARAGRAPH C403.2 OF THE WASHINGTON STATE ENERGY CODE.</div> <div>26. SEAL & TEST ALL DUCTWORK AS REQUIRED PER IMC, WSEC C403.2.8.3 LEAKAGE REQUIREMENTS, & IBC VAPOR RETARDER REQUIREMENTS. DUCTWORK DESIGN PRESSURE IS 2".</div> <div>27. HIGH PRESSURE DUCTWORK DESIGNED TO OPERATE AT STATIC PRESSURES EXCEEDING 3" WG SHALL BE SEALED AND INSULATED IN ACCORDANCE WITH WSEC C403.2.7 AND LEAK TESTED IN ACCORDANCE WITH THE SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL. TEST RESULTS SHALL BE PROVIDED TO AUTHORITY HAVING JURISDICTION WHEN COMPLETED.</div> <div>28. ALL SHEET METAL DUCTWORK SHALL BE INSULATED IN ACCORDANCE WITH THE WASHINGTON STATE ENERGY CODE. CONCEALED DUCTWORK LOCATED WITHIN THE CONDITIONED SPACE SHALL BE INSULATED WITH A MINIMUM OF R-3.3. DUCTWORK LOCATED IN UNCONDITIONED SPACES SHALL BE INSULATED WITH A MINIMUM OF R-6. WHERE LOCATED OUTSIDE OF THE BUILDING, DUCTWORK SHALL BE INSULATED WITH A MINIMUM OF R-8.</div> <div>29. SOUND-LINE ALL SUPPLY, RETURN, OR EXHAUST DUCT WITHIN 10' OF FANS UNLESS NOTED OTHERWISE.</div> <div>30. ALL SHEET METAL PRODUCTS SHALL COMPLY WITH SMACNA DUCT CONSTRUCTION STANDARDS, CURRENT EDITION.</div> <div>31. ALL RECTANGULAR DUCTWORK SIZES SHOWN ARE GALVANIZED SHEET METAL UNLESS NOTED OTHERWISE. ROUND DUCT SHALL BE SHEET METAL. PROVIDE TURNING VANES IN ALL ROUND 2-PIECE AND RECTANGULAR 90 DEGREE ELBOWS.</div> <div>32. ALL DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.</div> <div>33. WHERE FLEXIBLE DUCT IS SHOWN AT GRILLES, REGISTERS, AND DIFFUSERS, PROVIDE 6" MAXIMUM LENGTH OF FLEXIBLE DUCT.</div> <div>34. PROVIDE FLEXIBLE CONNECTORS AT DUCT CONNECTIONS TO ALL AIR HANDLING EQUIPMENT.</div> <div>35. SUPPORT FOR SUSPENDED EQUIPMENT SHALL INCLUDE APPURTENANCES AS NOTED IN ASHRAE AND REQUIRED IN CODE FOR SEISMIC/SWAY BRACING.</div> <div>36. PROVIDE VOLUME DAMPERS AT ALL GRILLES, REGISTERS, & DIFFUSERS IN ADDITION TO OPPOSED BLADE DAMPERS.</div> <div>37. MOTORIZED DAMPERS SHALL BE CLASS 1 AND HAVE A MAXIMUM LEAKAGE RATE OF 4 CFMS/SQUARE FOOT AT 1.0" W.G.</div> <div>38. DDC SYSTEM SHALL HAVE CONTROL POINTS AS REQUIRED FOR THE SEQUENCE OF OPERATIONS. SYSTEM SHALL TREND ALL POINTS AND UTILIZE A DEMAND RESPONSE TO ADJUST SETPOINT.</div> <div>39. REFERENCE BUILDING HVAC LOAD CALCULATIONS FOR EQUIPMENT CAPACITIES. NO HUMIDIFICATION PROVIDED. NO SIMULTANEOUS HEATING/COOLING ALLOWED.</div> <div>40. CONTROLS SHALL CLOSE ALL OSA DAMPERS WHEN EQUIPMENT IS NOT RUNNING IN COMPLIANCE WITH C403.2.4.3</div>

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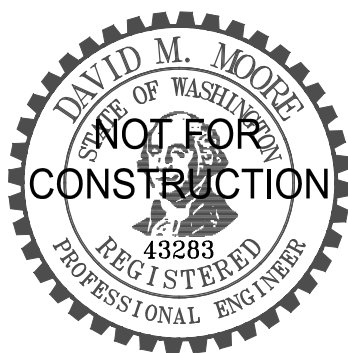
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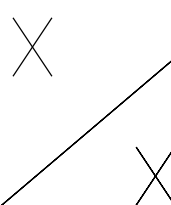


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PLUMBING FIXTURE SCHEDULE							
ID/NO	FIXTURE	MANUFACTURER/MODEL NUMBERS	PLUMBING CONNECTIONS				NOTES
			WASTE	VENT	HW	CW	
P-1	WATER CLOSET	ACORN #2105-W-1-BCN-E500-FVT-SHA FLUSH VALVE: SLOAN HYDRAULIC ROYAL #952-1.6-FW HANGER: VERTICAL COMPACT SUPPORT.	4"	2"	-	1-1/4"	WALL MOUNT
P-1 A	WATER CLOSET ADA	ACORN #2105-W-1-BCN-E500-FVT-SHA FLUSH VALVE: SLOAN HYDRAULIC ROYAL #952-1.6-FW HANGER: VERTICAL COMPACT SUPPORT.	4"	2"	-	1-1/4"	WALL MOUNT
P-2	URINAL ADA	ACORN # 2165-W-1-FV FLUSH VALVE: SLOAN HYDRAULIC ROYAL #995-0.5 HANGER: VERTICAL COMPACT SUPPORT	2"	1-1/2"	1/2"	1/2"	WALL MOUNT
P-3	LAVATORY ADA	ACORN # 1652LRB-1-DMS-04-M-FP FAUCET: CHICAGO #802-665CP	2"	1-1/2"	1/2"	1/2"	WALL MOUNT
P-4	DRINKING FOUNTAIN	HEAVY-DUTY 14 GAUGE TYPE 304 STAINLESS STEEL CONSTRUCTION WITH INTEGRAL MOUNTING PLATES INCLUDE VANDAL-RESISTANT BOTTOM PLATES . HAWS MODEL H1117.8. REMOVE DRAIN TRAP AND WATER BEHIND WALL	2"	1-1/2"		1/2"	WALL MOUNT CANE GUARD
P-5	MOP SINK	FIAT #TSBC-1610 24"x24"x12" DROP FRONT FAUCET: CHICAGO #897-CP, WALL MOUNTED, DRAIN/STRAINER: FIAT COMBINATION DOME STRAINER	3"	2"	3/4"	3/4"	FLOOR MOUNT
P-6	FREEZELESS WALL HYDRANT	QUARTER-TURN, NON-FREEZE WALL HYDRANT WITH INTEGRAL VACUUM BREAKER AND STAINLESS STEEL BOX, LOOSE KEY, HINGED LOCKING COVER, ADJUSTABLE WALL CLAMP, NICKEL-BRONZE BOX FACE; JAY R SMITH 5509QT	-	-	-	3/4"	WALL MOUNT NON-FREEZE
FD	FLOOR DRAIN	JR SMITH MODEL 2005 WITH ROUND NICKEL BRONZE STRAINER, TRAP AND PRIMING CONNECTION.	3"	2"	-	-	FLOOR MOUNT

ELECTRIC WATER HEATER SCHEDULE														
ID/NO	MANUFACTURER	MODEL	CAPACITY (GALLONS)	HEIGHT (INCHES)	DIAMETER (INCHES)	DISCHARGE TEMP (DEG F)	MINIMUM EFF	RECOVERY		ELECTRICAL			WEIGHT (LBS)	NOTES
								GPH	TEMP RISE	VOLTS	PHASE	KW		
WH-1														

EXPANSION TANK SCHEDULE									
ID/NO	SERVICE	MANUFACTURER	MODEL	VOLUME (GALLONS)		DIMENSIONS (IN.)		OPERATING WEIGHT (POUNDS)	NOTES
				TANK	ACCEPTANCE	DIAMETER	HEIGHT		
ET-1	WH-1								

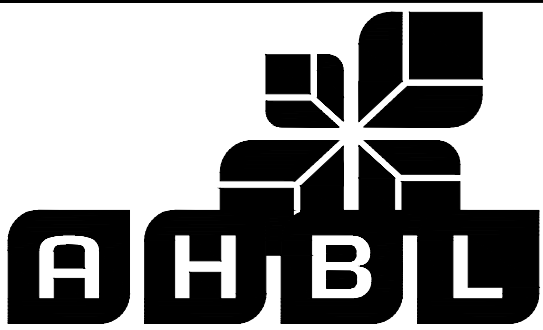
MIXING VALVE SCHEDULE											
ID/NO	MANUFACTURER	MODEL	SERVICE	INLET SIZE (INCHES)	OUTLET SIZE (INCHES)	INLET TEMP (°F)	OUTLET TEMP (°F)	GPM		PRESSURE DROP (PSI)	NOTES
								MINIMUM FLOW	MAXIMUM FLOW AT SPECIFIED PRESSURE DROP		
MV-1											

HOT WATER CIRC. PUMP SCHEDULE											
ID/NO	MANUFACTURER	MODEL	SERVICE	TYPE	GPM	HEAD (FT)	ELECTRICAL CONNECTION			STARTER/ DISCONNECT BY	NOTES
							HP	VOLT/PHASE	FLA		
CP-01											

EXHAUST FAN SCHEDULE																
UNIT NO	MANUFACTURER	MODEL	AREA SERVED	TYPE	PERFORMANCE				POWER CONNECTION		STARTER	DISCONNECT	INTERLOCK MOTORIZED DAMPER	SPEED CONTROLLER	WEIGHT (POUNDS)	NOTES
					CFM	TSP (IN)	RPM	SONES	HP	VOLT/PH	BY E.C.	BY E.C.				
EF-1	GREENHECK		RESTROOM	ROOF												
EF-2	GREENHECK		RESTROOM	ROOF												
EF-3	GREENHECK		RESTROOM	ROOF												
EF-4	GREENHECK		CUSTODIAL ROOM	ROOF												
EF-5	GREENHECK		RESTROOM	ROOF												
EF-6	GREENHECK		STORAGE ROOM	ROOF												

WALL HEATER SCHEDULE									
UNIT NO	MANUFACTURER	MODEL	AREA SERVED	TYPE	POWER CONNECTION		SIZE	WEIGHT (POUNDS)	NOTES
					VOLT/PH	WATT			
EUH-1			RESTROOM						
EUH-2			RESTROOM						
EUH-3			CUSTODIAL ROOM						
1. PROVIDE WALL CAN, GRILL KIT AND BUILT IN THERMOSTAT. MOUNT UNIT PER MANUFACTURER RECOMMENDATION. 2. PROVIDE WITH BUILT-IN TAMPER RESISTANT THERMOSTAT AND DISCONNECTION SWITCH									

ELECTRIC RADIANT HEATER SCHEDULE									
UNIT NO	MANUFACTURER	MODEL	AREA SERVED	TYPE	POWER CONNECTION		SIZE	WEIGHT (POUNDS)	NOTES
					VOLT/PH	WATT			
RH-1			STORAGE ROOM						



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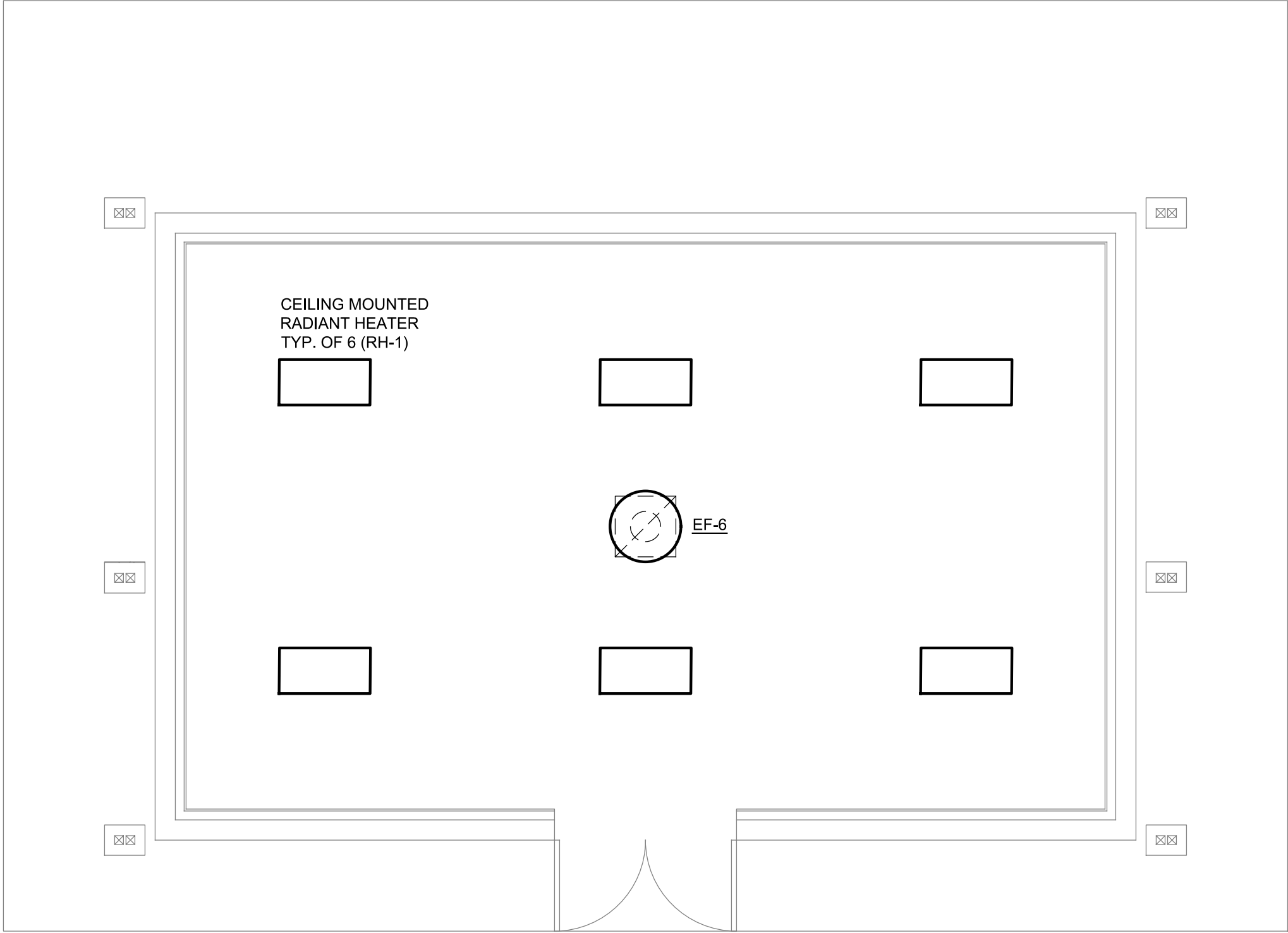
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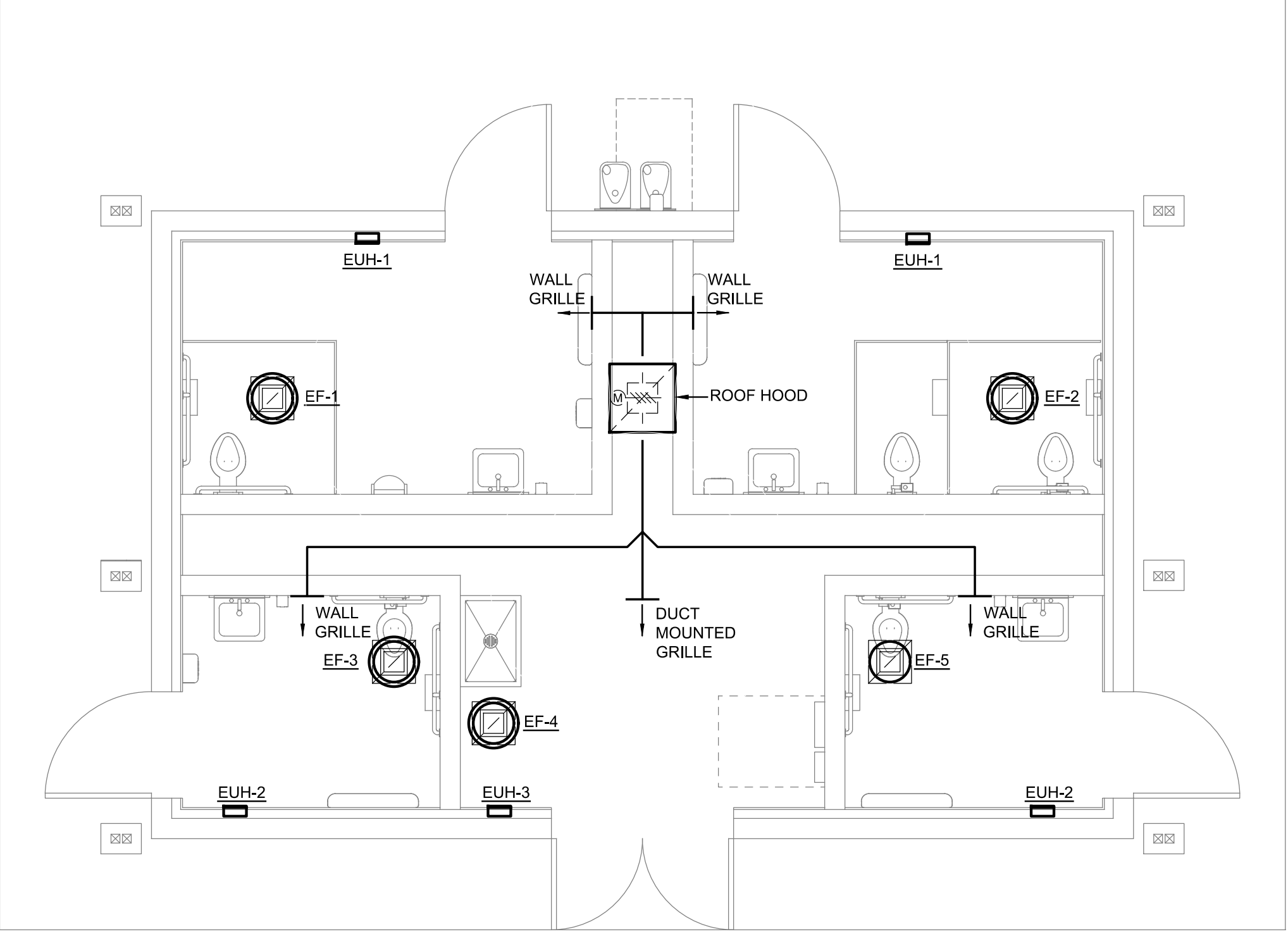
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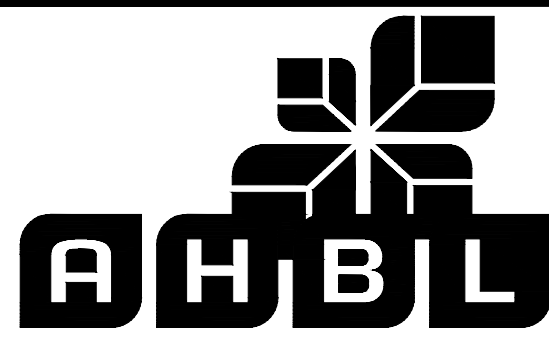


1 PRE-FAB STORAGE BUILDING - MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

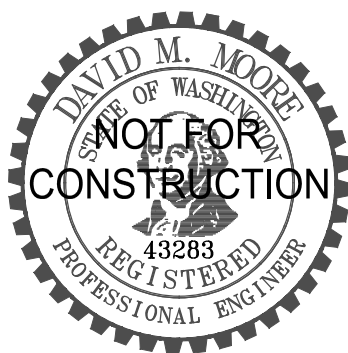


2 RESTROOM BUILDING - MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

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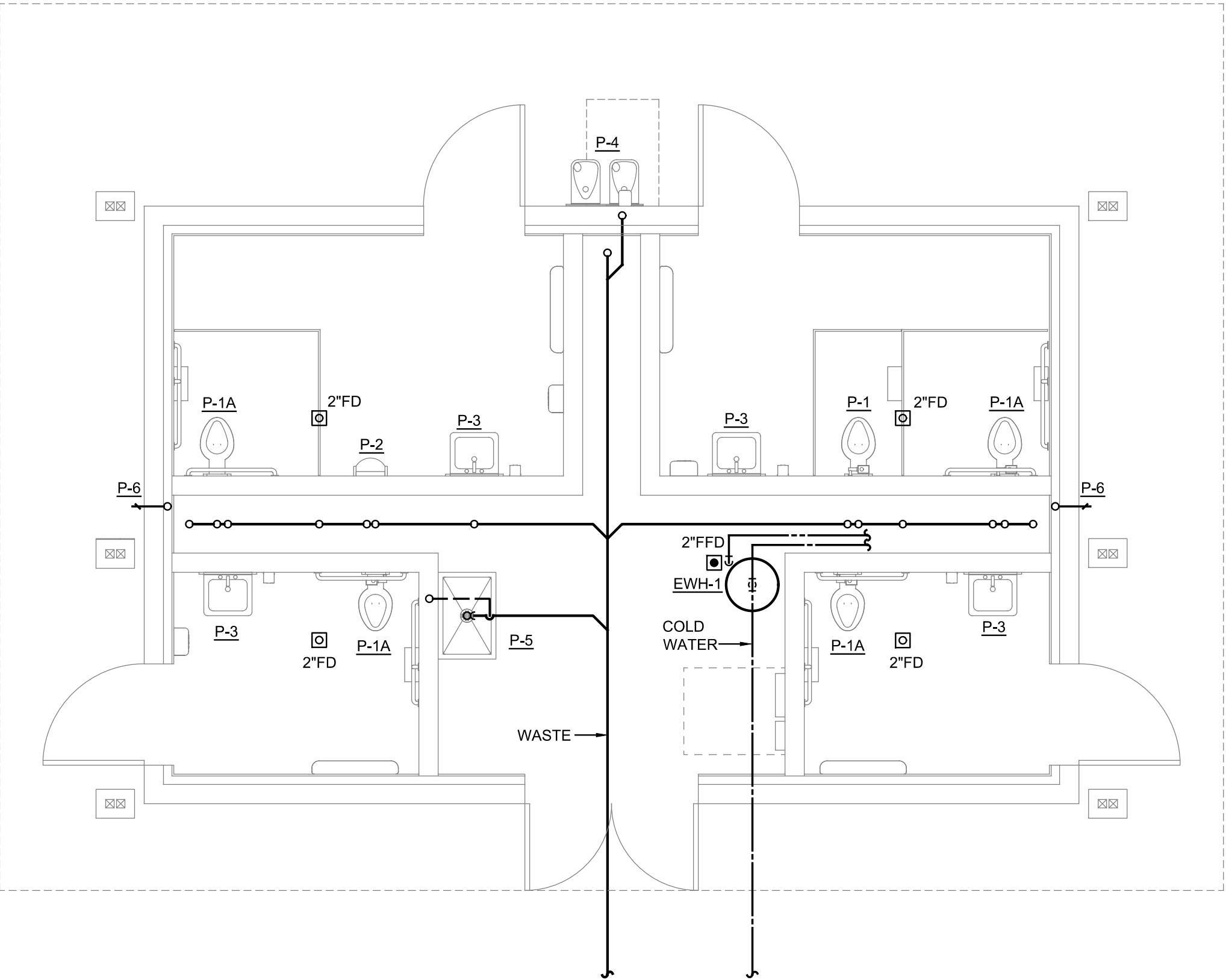
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1 RESTROOM BUILDING - PLUMBING PLAN
M4.00 SCALE: 1/4" = 1'-0"

DWG. NO. **M4.00**



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