

SMITHFIELD ELEMENTARY

NORTH RICHLAND HILLS, TX



OWNER
BROVILLE ISD
6125 EAST BELKNAP
HALTOM CITY, TX 76117

ARCHITECT
HKS INC.
350 N SAINT PAUL STREET, SUITE 100
DALLAS, TX 75201

STRUCTURAL ENGINEER
JQ INFRASTRUCTURE
100 GLASS STREET, SUITE 201
DALLAS, TX 75207

MEP ENGINEER
ESTES, MACLURE & ASSOCIATES, INC.
3008 WEST WAY
TYLER, TEXAS 75703

CIVIL ENGINEER
RAYMOND L. GOODSON JR., INC.
12001 N. CENTRAL EXPRESSWAY, SUITE 300
DALLAS, TX 75243

LANDSCAPE
CCA LANDSCAPE ARCHITECTS, INC.
12700 HILLCREST ROAD, SUITE 149
DALLAS, TX 75230

FOOD SERVICE
JMK FOODSERVICE CONSULTING & DESIGN, LLC.
3431 LAKEVIEW PARKWAY, SUITE 205
ROWLETT, TX 75088

ACOUSTICS, AUDIO, VISUAL, TECH.
IDIRI CONSULTING, L.P.
15508 WRIGHT BROTHERS DRIVE
ADDISON, TX 75001

SITE SUBMITTAL DRAWING PACKAGE

- SITE SCOPE NOTES:**
1. ALL FENCING AND GATES TO BE 6'-0" TALL UNLESS NOTED OTHERWISE.
 2. PROVIDE FOR KNOX LOCKS ON ALL GATES. PROVIDE AN ADDITIONAL KNOX BOX AT THE BUILDING.
 3. PROVIDE 4 EXTRA BOLLARDS (NOT SHOWN) TO BE LOCATED AS NEEDED BY OWNER.
 4. SEE SHEET A1.0X FOR FENCING, GATES AND DUMPSTER ENCLOSURE.

HKS

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DALLAS, TX 75230

STRUCTURAL
JO INFRASTRUCTURE, LLC
180 GLASS STREET, SUITE 201
DALLAS, TEXAS 75201

MEP
ESTES MCCLURE & ASSOCIATES, INC.
3008 WEST WAY STREET
TYLER, TX 75703

FOOD SERVICE
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3431 LAKEVIEW PKWY, STE 205
ROWLETT, TX 75088

BISD
SMITHFIELD ELEMENTARY SCHOOL CAMPUS
REPLACEMENT AND THREE HIGH SCHOOL FINE
ARTS AUDITORIUM UPGRADES

OWNER
BIRDVILLE INDEPENDENT SCHOOL DISTRICT
6125 EAST BELKNAP
HALTOM CITY, TX 76117

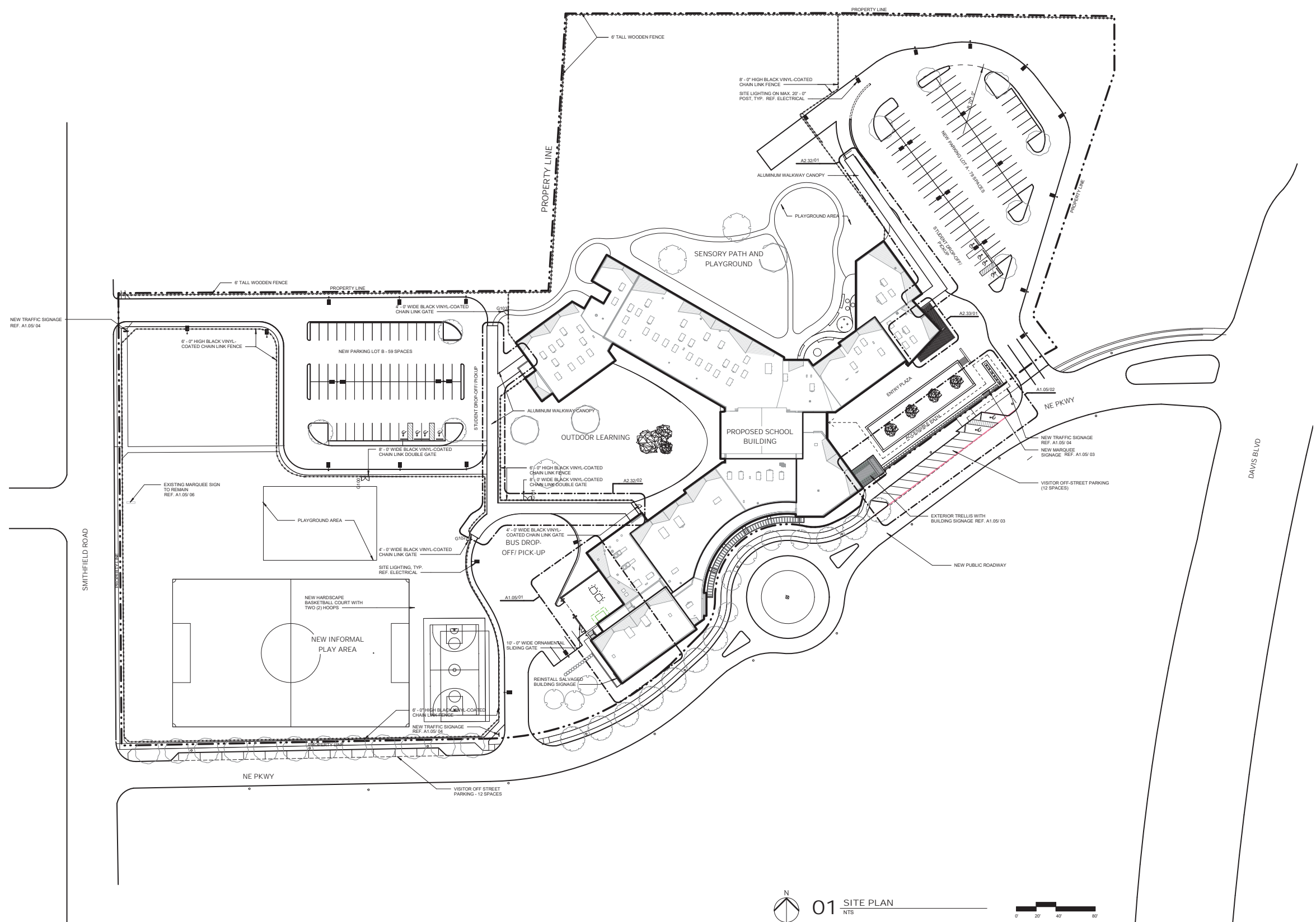
INTERIM REVIEW ONLY
These documents are incomplete, and are released for interim review only and are not intended for regulatory approval, permit, or construction purposes.
Architect: MARK VANDERVOORT
Arch. Reg. No.: 100114
Date: 11/15/2019

KEY PLAN

REVISION NO.	DESCRIPTION	DATE

PROJECT CASE NUMBER
SP 2019-18
HKS PROJECT NUMBER
22526.000
DATE
12/18/19
ISSUE
SITE SUBMITTAL
DRAWING PACKAGE
SHEET TITLE
ARCHITECTURAL
SITE PLAN

SHEET NO.
A1.04



01 SITE PLAN
NTS



PLOT DATE: 12/18/2019 10:47 AM TEMPLATE VERSION: 1.0.0 (2/18/19)

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ARCHITECT
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BS&D

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Architect: MARK VANDERVOORT
Arch. Reg. No.: 001114
Date: 11/15/2019

KEY PLAN

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SP 2019-18

HKS PROJECT NUMBER
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12/18/19

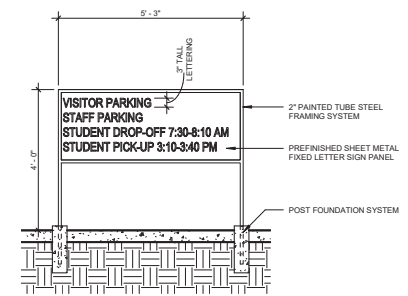
ISSUE
SITE SUBMITTAL
DRAWING PACKAGE
SHEET TITLE
ENLARGED SITE
PLANS &
ELEVATIONS
SHEET NO.



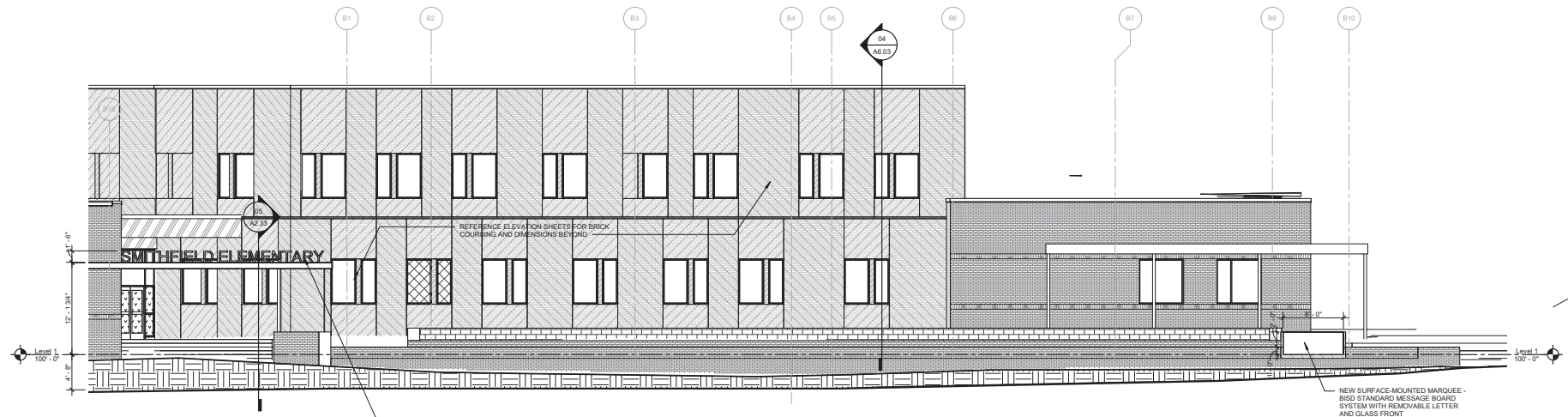
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NTS



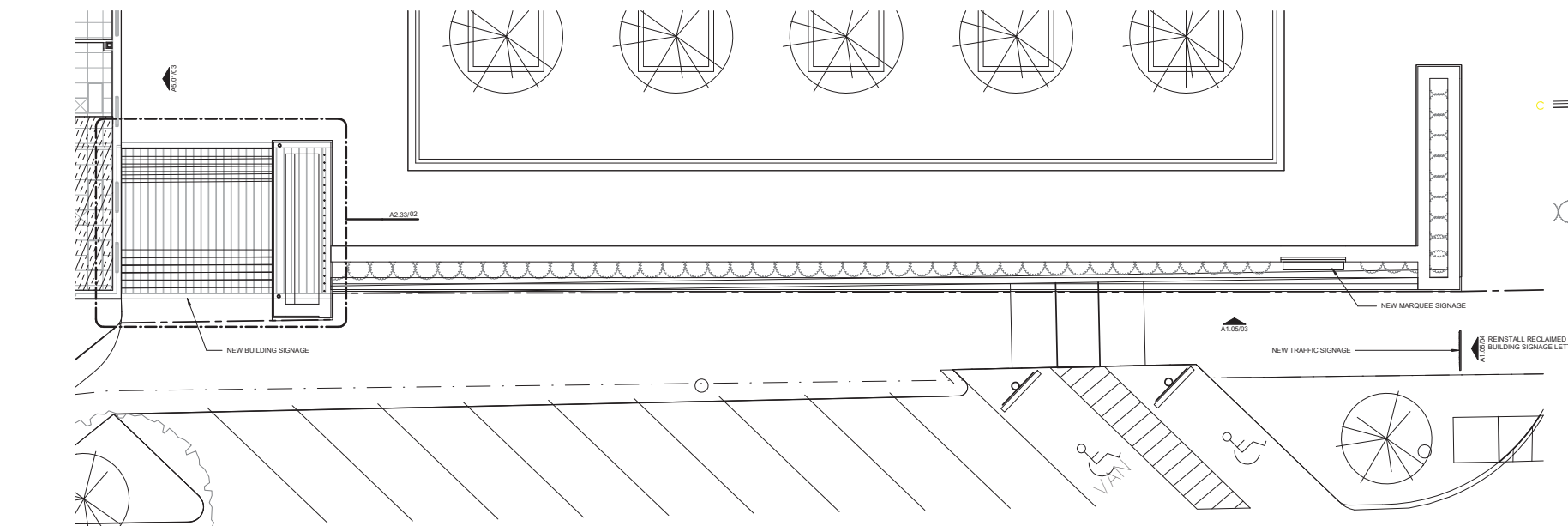
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NTS



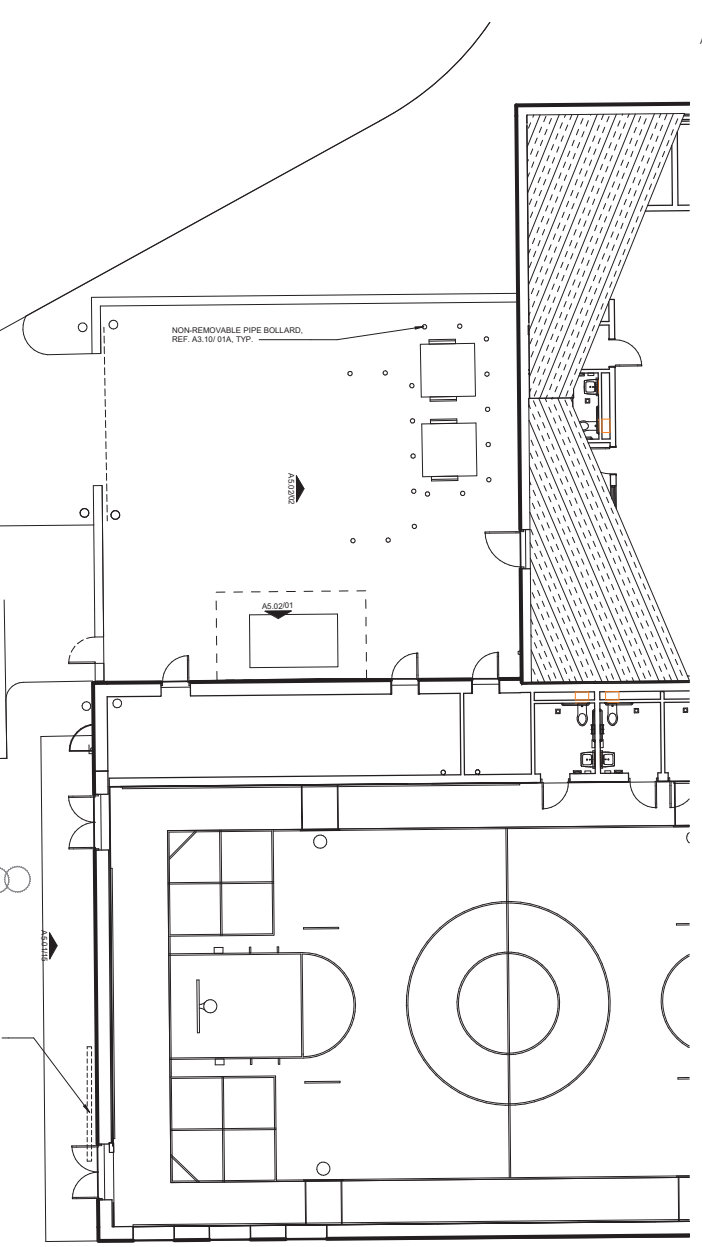
04 EXAMPLE TRAFFIC SIGNAGE
NTS



03 EXTERIOR SIGNAGE ELEVATION
NTS



02 SITE PLAN - ENTRY PLAZA SIGNAGE PLAN
NTS



01 SITE PLAN - SERVICE YARD
NTS

PLOT DATE: 12/18/19 10:29 AM TEMPLATE VERSION: 1.0.0 (2/18/19)

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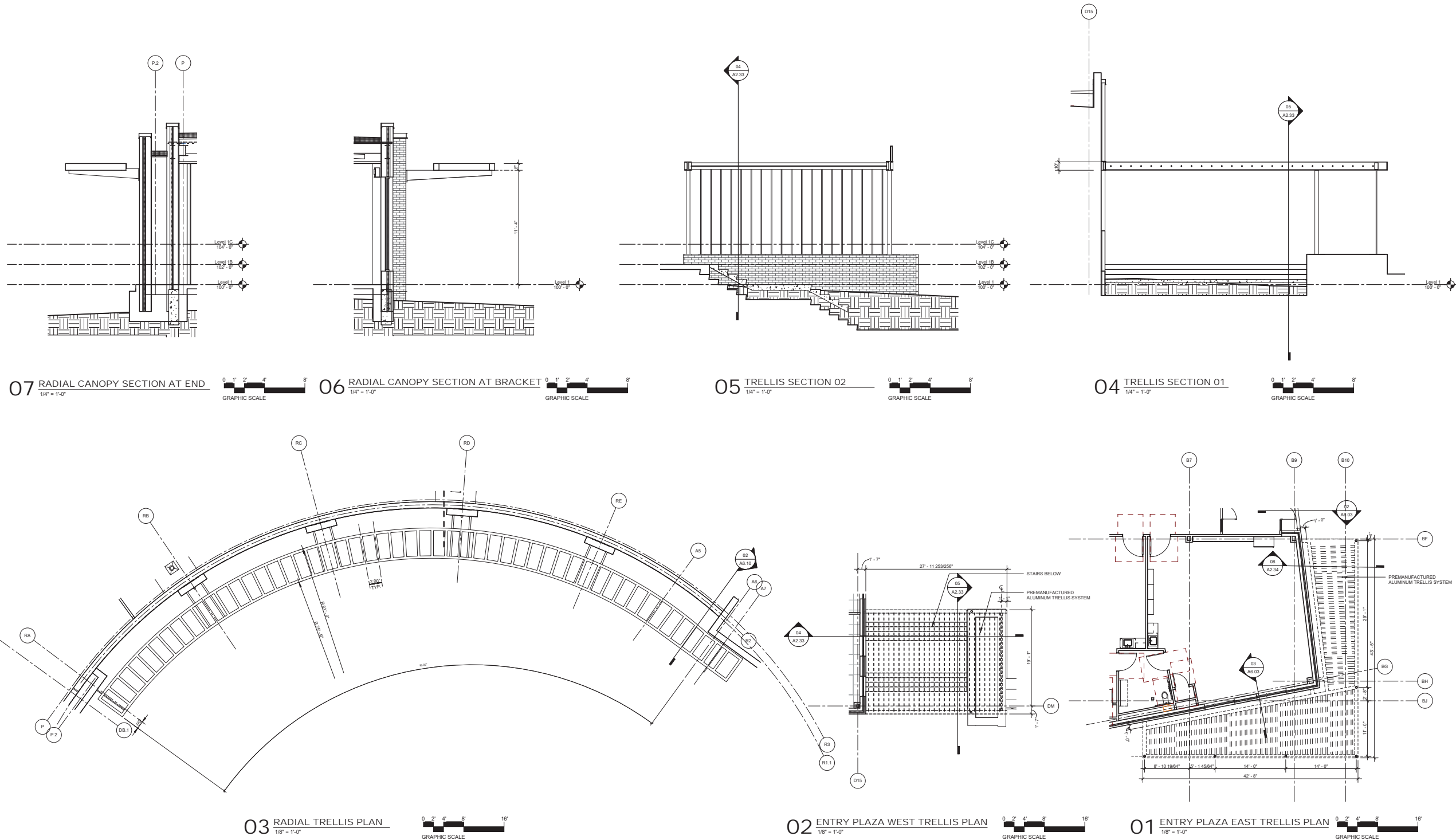
KEY PLAN

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HKS PROJECT NUMBER
22526.000
DATE
12/18/19
ISSUE
SITE SUBMITTAL
DRAWING PACKAGE
SHEET TITLE
CANOPY PLANS

SHEET NO.

A2.33



PLOT DATE: 12/18/19 10:29 AM TEMPLATE VERSION: 3.0.0 (2/18/19)



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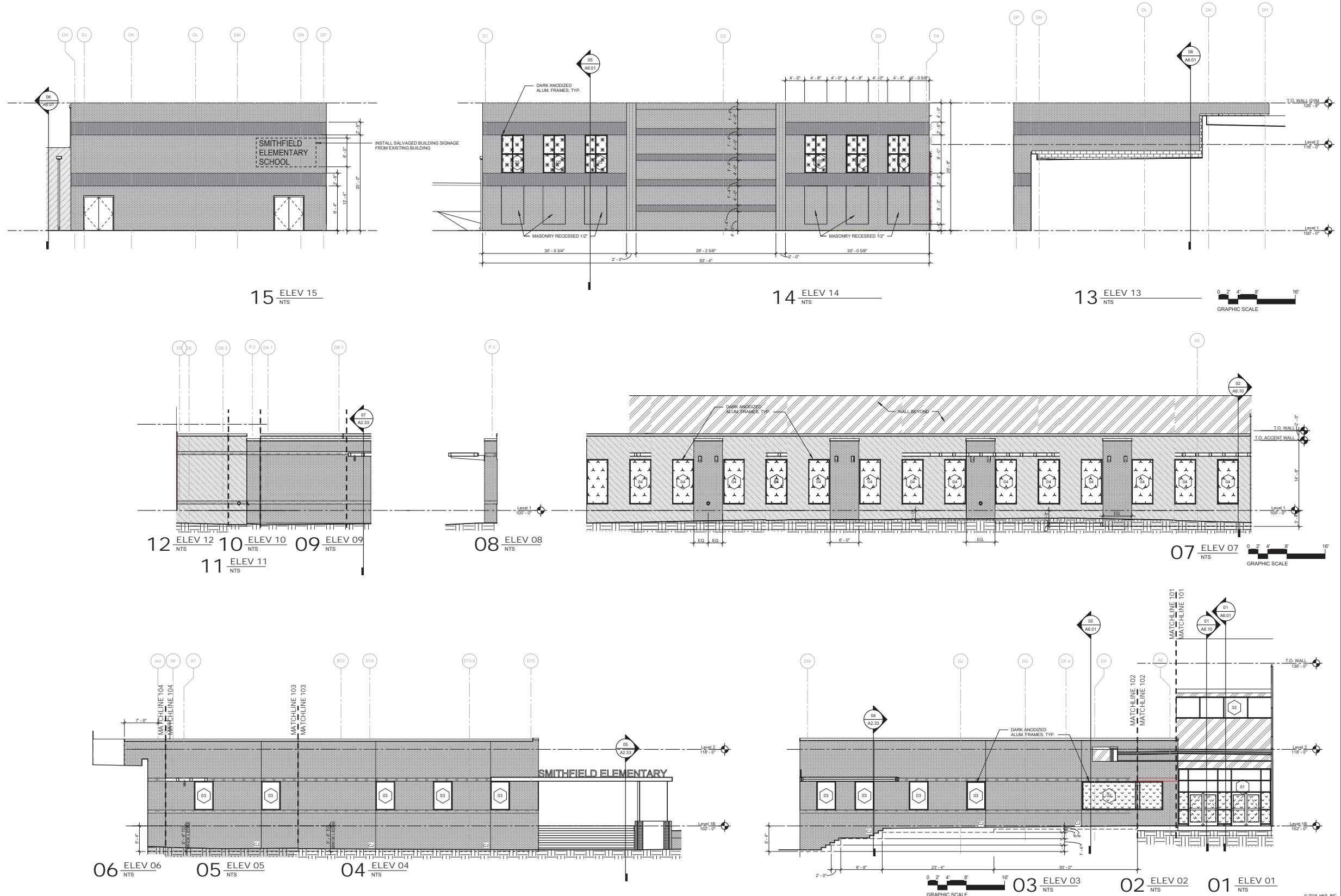
KEY PLAN

REVISION
NO. DESCRIPTION DATE

PROJECT CASE NUMBER
SP 2019-18
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22526.000
DATE
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ISSUE
SITE SUBMITTAL
DRAWING PACKAGE
SHEET TITLE
EXTERIOR
ELEVATIONS

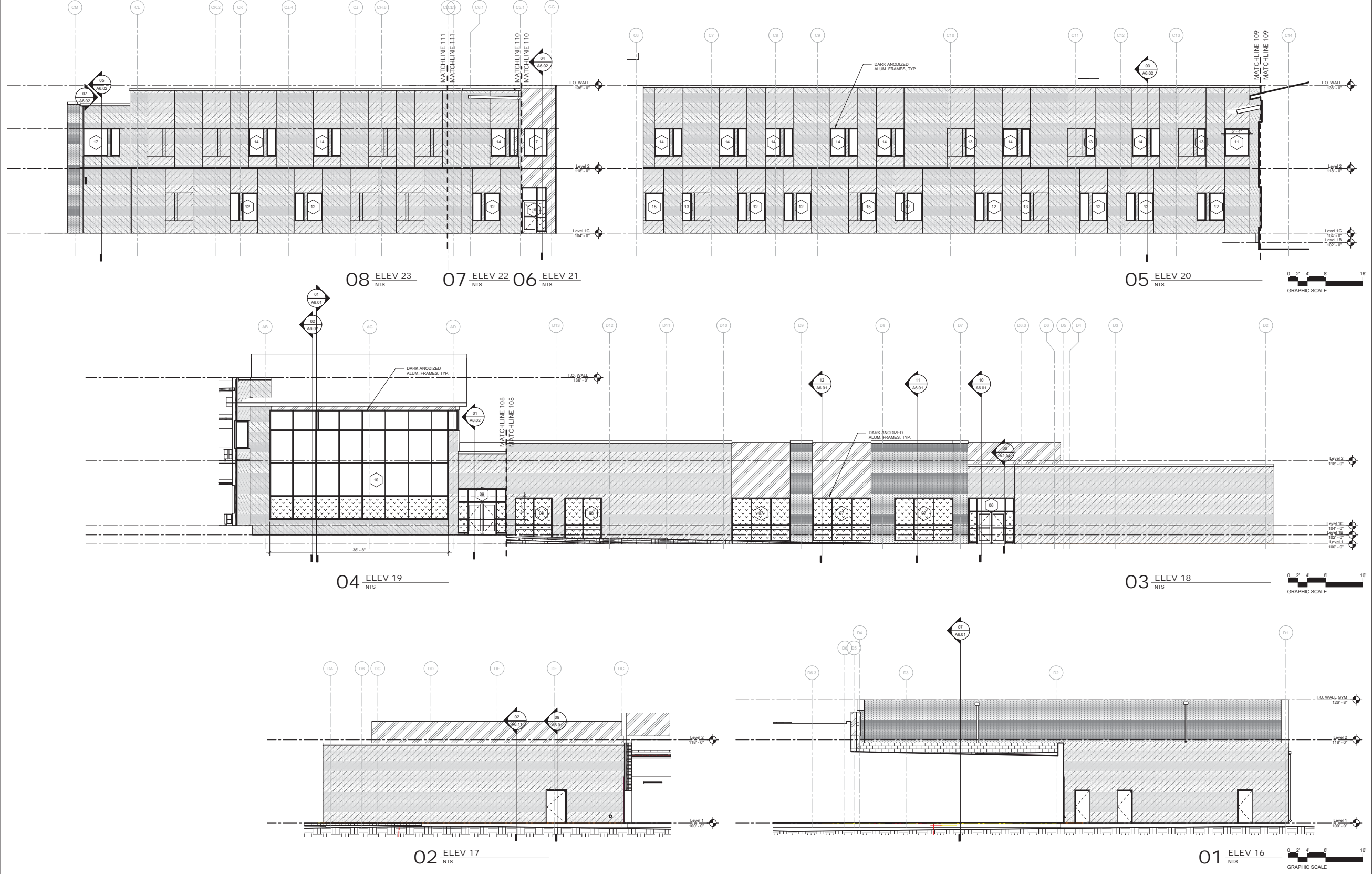
SHEET NO.
A5.01

FINISH INFORMATION		GRAPHIC SYMBOL	FINISH INFORMATION		GRAPHIC SYMBOL	FINISH INFORMATION		GRAPHIC SYMBOL	FINISH INFORMATION		GRAPHIC SYMBOL
GL-01	TYPE: SOLARBAN 70		GL-05	TYPE: STORM RATED GLASS		BR-02	TYPE: BRICK VENEER		BR-06	TYPE: BRICK VENEER	
MANUF: VITRO			MANUF: TBO		MANUF: TBO		MANUF: MATCH BR-01		MANUF: MATCH BR-01		
COLOR: SOLARBLUE			COLOR: TBO		COLOR: TBO		COLOR: MATCH BR-01		COLOR: MATCH BR-01		
SIZE: TBD			SIZE: MODULAR		SIZE: MODULAR		SIZE: MATCH BR-01		SIZE: MATCH BR-01		
COMMENT: TYP. EXT GLAZING U.G.O.			COMMENT: MATCH ICC 500 2014		COMMENT: MATCH ICC 500 2014		INSTALL: RUNNING BOND		INSTALL: STACK BOND		
GL-02	TYPE: SOLARBAN 70		MP-01	TYPE: METAL PANEL		BR-03	TYPE: BRICK VENEER		BR-07	TYPE: BRICK VENEER	
MANUF: VITRO			MANUF: TBO		MANUF: TBO		MANUF: TBO		MANUF: MATCH BR-03		
COLOR: SOLARBLUE			COLOR: TBO		COLOR: TBO		COLOR: TBO		COLOR: MATCH BR-03		
SIZE: TBD			SIZE: REF ELEVATIONS		SIZE: MODULAR		SIZE: MODULAR		SIZE: MATCH BR-03		
COMMENT: TYP. EXT SPANDREL GLAZING			INSTALL: TBO		INSTALL: RUNNING BOND		INSTALL: RUNNING BOND		INSTALL: STACK BOND		
GL-03	TYPE: SECURITY NJ LEVEL IIA		ASF-01	TYPE: ARCH EXP STRUC STEEL		BR-04	TYPE: BRICK VENEER		BR-08	TYPE: BRICK VENEER	
MANUF: MATCH GL-01			MANUF: TBO		MANUF: TBO		MANUF: MATCH BR-03		MANUF: MATCH BR-02		
COLOR: SOLARBLUE			COLOR: TBO		COLOR: TBO		COLOR: MATCH BR-03		COLOR: MATCH BR-02		
SIZE: TBD			SIZE: N/A		SIZE: N/A		SIZE: MODULAR		SIZE: MATCH BR-02		
COMMENT: 1/2" GLASS W/ 1/2" AIRSPACE AND 2 LAYERS 1/8" LAMINATED GLASS @ 900 CLEAR PVB W/ BALLISTIC FILM ON #4 FACE			INSTALL: N/A		INSTALL: SOLNER		INSTALL: SOLNER		INSTALL: ROWLOCK		
GL-04	TYPE: SECURITY NJ LEVEL I		BR-01	TYPE: BRICK VENEER		BR-05	TYPE: BRICK VENEER		BR-09	TYPE: BRICK VENEER	
MANUF: MATCH GL-01			MANUF: TBO		MANUF: MATCH BR-03		MANUF: MATCH BR-03		MANUF: MATCH BR-02		
COLOR: SOLARBLUE			COLOR: TBO		COLOR: MATCH BR-03		COLOR: MATCH BR-03		COLOR: MATCH BR-02		
SIZE: TBD			SIZE: MODULAR		SIZE: MODULAR		SIZE: MODULAR		SIZE: MATCH BR-02		
COMMENT: 1/2" GLASS W/ 1/2" AIRSPACE AND 2 LAYERS 1/8" LAMINATED GLASS @ 900 CLEAR PVB W/ BALLISTIC FILM ON #4 FACE			INSTALL: RUNNING BOND		INSTALL: RUNNING BOND		INSTALL: FLEMISH BOND		INSTALL: SOLDIER BOND		



EXTERIOR MATERIALS REFERENCE

FINISH INFORMATION	GRAPHIC SYMBOL	FINISH INFORMATION	GRAPHIC SYMBOL	FINISH INFORMATION	GRAPHIC SYMBOL	FINISH INFORMATION	GRAPHIC SYMBOL
GL-01 TYPE: SOLARBAN 70 MANUF: VITRO COLOR: SOLARBLUE SIZE: TBD COMMENT: TYP. EXT. GLAZING U.G.O.	[Symbol]	GL-05 TYPE: STORM RATED GLASS MANUF: TBD COLOR: MATCH GL-01 SIZE: MATCH GL-01 COMMENT: MATCH TO CC 200 2014	[Symbol]	BR-02 TYPE: BRICK VENEER MANUF: TBD COLOR: TBD SIZE: MODULAR INSTALL: RUNNING BOND	[Symbol]	BR-06 TYPE: BRICK VENEER MANUF: MATCH BR-01 COLOR: MATCH BR-01 SIZE: MATCH BR-01 INSTALL: STACK BOND	[Symbol]
GL-02 TYPE: SOLARBAN 70 MANUF: VITRO COLOR: SOLARBLUE SIZE: TBD COMMENT: TYP. EXT. SPANDREL GLAZING	[Symbol]	MP-01 TYPE: METAL PANEL MANUF: TBD COLOR: TBD SIZE: REF. ELEVATIONS INSTALL: TBD	[Symbol]	BR-03 TYPE: BRICK VENEER MANUF: TBD COLOR: TBD SIZE: MODULAR INSTALL: RUNNING BOND	[Symbol]	BR-07 TYPE: BRICK VENEER MANUF: MATCH BR-03 COLOR: MATCH BR-03 SIZE: MATCH BR-03 INSTALL: STACK BOND	[Symbol]
GL-03 TYPE: SECURITY III LEVEL IIA MANUF: MATCH GL-01 COLOR: MATCH GL-01 COMMENT: 1/2" GLASS W/ 1/2" AIRSPACE AND 2 LAYERS 1/4" LAMINATED GLASS @ 1/800 CLEAR PVB W/ BALLISTIC FILM ON #4 FACE	[Symbol]	ASF-01 TYPE: ARCH EXP. STRUC. STEEL MANUF: TBD COLOR: TBD SIZE: N/A INSTALL: N/A	[Symbol]	BR-04 TYPE: BRICK VENEER MANUF: MATCH BR-03 COLOR: MATCH BR-03 SIZE: MODULAR INSTALL: SOLDIER	[Symbol]	BR-08 TYPE: BRICK VENEER MANUF: MATCH BR-02 COLOR: MATCH BR-02 SIZE: MATCH BR-02 INSTALL: ROWLOCK	[Symbol]
GL-04 TYPE: SECURITY III LEVEL I MANUF: MATCH GL-01 COLOR: MATCH GL-01 COMMENT: 1/2" GLASS W/ 1/2" AIRSPACE AND 2 LAYERS 1/4" LAMINATED GLASS @ 1/800 CLEAR PVB W/ BALLISTIC FILM ON #4 FACE	[Symbol]	BR-01 TYPE: BRICK VENEER MANUF: TBD COLOR: TBD SIZE: MODULAR INSTALL: RUNNING BOND	[Symbol]	BR-05 TYPE: BRICK VENEER MANUF: MATCH BR-03 COLOR: MATCH BR-03 SIZE: MODULAR INSTALL: FLEMISH BOND	[Symbol]	BR-09 TYPE: BRICK VENEER MANUF: MATCH BR-02 COLOR: MATCH BR-02 SIZE: MATCH BR-02 INSTALL: SOLDIER BOND	[Symbol]



HKS

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KEY PLAN

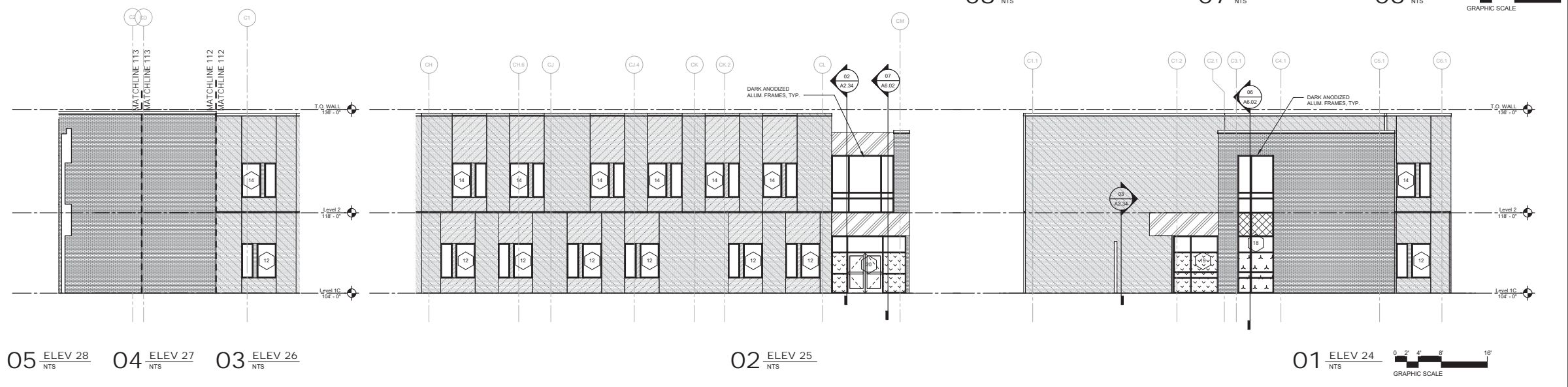
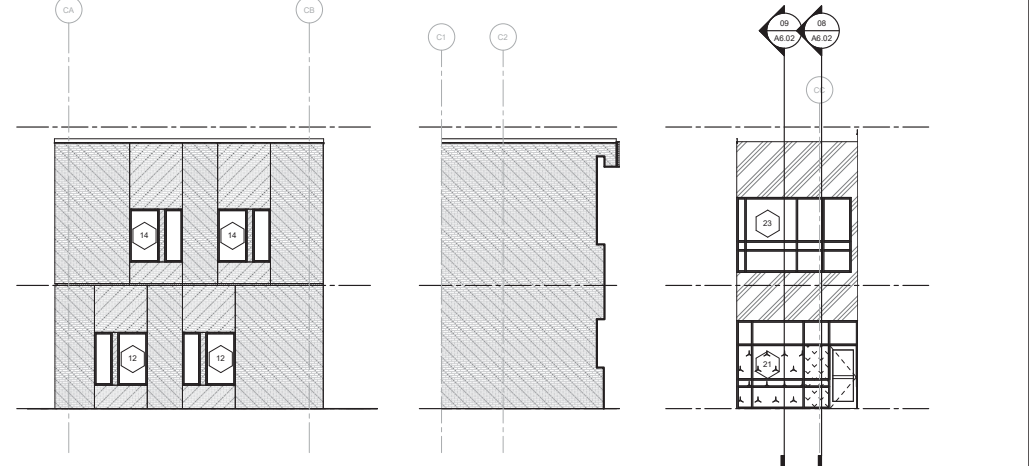
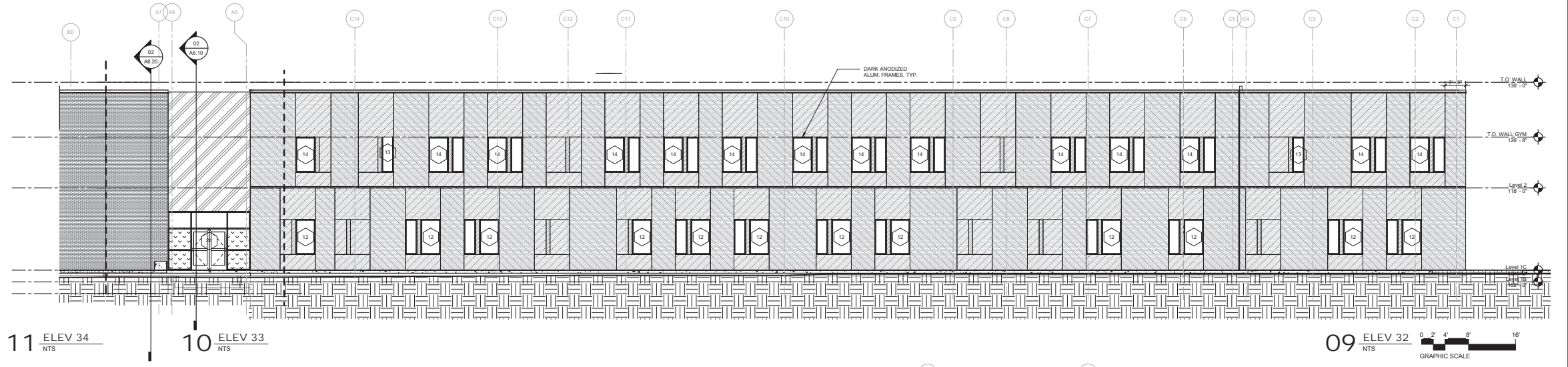
REVISION NO.	DESCRIPTION	DATE

PROJECT CASE NUMBER
SP 2019-18
HKS PROJECT NUMBER
22526.000
DATE
12/18/19
ISSUE
SITE SUBMITTAL
DRAWING PACKAGE
SHEET TITLE
EXTERIOR
ELEVATIONS

SHEET NO.
A5.02

EXTERIOR MATERIALS REFERENCE

FINISH INFORMATION	GRAPHIC SYMBOL	FINISH INFORMATION	GRAPHIC SYMBOL	FINISH INFORMATION	GRAPHIC SYMBOL	FINISH INFORMATION	GRAPHIC SYMBOL
GL-01 TYPE: SOLARBAN 70 MANUF: VITRO COLOR: SOLARBLUE SIZE: TBD COMMENT: TYP. EXT GLAZING U.G.O.	[Symbol]	GL-03 TYPE: SOLARBAN 70 MANUF: VITRO COLOR: SOLARBLUE SIZE: TBD COMMENT: TYP. EXT SPANDREL GLAZING	[Symbol]	BR-01 TYPE: BRICK VENEER MANUF: TBD COLOR: TBD SIZE: MODULAR INSTALL: RUNNING BOND	[Symbol]	BR-02 TYPE: BRICK VENEER MANUF: TBD COLOR: TBD SIZE: MODULAR INSTALL: RUNNING BOND	[Symbol]
GL-02 TYPE: SOLARBAN 70 MANUF: VITRO COLOR: SOLARBLUE SIZE: TBD COMMENT: TYP. EXT SPANDREL GLAZING	[Symbol]	GL-04 TYPE: SECURITY III LEVEL I MANUF: MATCH GL-01 COLOR: MATCH GL-01 SIZE: 1/2" GLASS W/ 1/2" AIRSPACE AND 2 LAYERS 1/8" LAMINATED GLASS @ 1/800 CLEAR PVB W/ BALLISTIC FILM ON #4 FACE	[Symbol]	BR-03 TYPE: BRICK VENEER MANUF: TBD COLOR: TBD SIZE: MODULAR INSTALL: SOLDER	[Symbol]	BR-04 TYPE: BRICK VENEER MANUF: TBD COLOR: MATCH BR-03 SIZE: MODULAR INSTALL: SOLDER	[Symbol]
GL-03 TYPE: SECURITY III LEVEL IIA MANUF: MATCH GL-01 COLOR: MATCH GL-01 SIZE: 1/2" GLASS W/ 1/2" AIRSPACE AND 2 LAYERS 1/8" LAMINATED GLASS @ 1/800 CLEAR PVB W/ BALLISTIC FILM ON #4 FACE	[Symbol]	GL-04 TYPE: SECURITY III LEVEL I MANUF: MATCH GL-01 COLOR: MATCH GL-01 SIZE: 1/2" GLASS W/ 1/2" AIRSPACE AND 2 LAYERS 1/8" LAMINATED GLASS @ 1/800 CLEAR PVB W/ BALLISTIC FILM ON #4 FACE	[Symbol]	BR-05 TYPE: BRICK VENEER MANUF: TBD COLOR: MATCH BR-03 SIZE: MODULAR INSTALL: FLEMISH BOND	[Symbol]	BR-06 TYPE: BRICK VENEER MANUF: TBD COLOR: MATCH BR-01 SIZE: MODULAR INSTALL: STACK BOND	[Symbol]
GL-04 TYPE: SECURITY III LEVEL I MANUF: MATCH GL-01 COLOR: MATCH GL-01 SIZE: 1/2" GLASS W/ 1/2" AIRSPACE AND 2 LAYERS 1/8" LAMINATED GLASS @ 1/800 CLEAR PVB W/ BALLISTIC FILM ON #4 FACE	[Symbol]	GL-04 TYPE: SECURITY III LEVEL I MANUF: MATCH GL-01 COLOR: MATCH GL-01 SIZE: 1/2" GLASS W/ 1/2" AIRSPACE AND 2 LAYERS 1/8" LAMINATED GLASS @ 1/800 CLEAR PVB W/ BALLISTIC FILM ON #4 FACE	[Symbol]	BR-07 TYPE: BRICK VENEER MANUF: TBD COLOR: MATCH BR-03 SIZE: MODULAR INSTALL: STACK BOND	[Symbol]	BR-08 TYPE: BRICK VENEER MANUF: TBD COLOR: MATCH BR-02 SIZE: MODULAR INSTALL: ROWLOCK	[Symbol]
GL-04 TYPE: SECURITY III LEVEL I MANUF: MATCH GL-01 COLOR: MATCH GL-01 SIZE: 1/2" GLASS W/ 1/2" AIRSPACE AND 2 LAYERS 1/8" LAMINATED GLASS @ 1/800 CLEAR PVB W/ BALLISTIC FILM ON #4 FACE	[Symbol]	GL-04 TYPE: SECURITY III LEVEL I MANUF: MATCH GL-01 COLOR: MATCH GL-01 SIZE: 1/2" GLASS W/ 1/2" AIRSPACE AND 2 LAYERS 1/8" LAMINATED GLASS @ 1/800 CLEAR PVB W/ BALLISTIC FILM ON #4 FACE	[Symbol]	BR-08 TYPE: BRICK VENEER MANUF: TBD COLOR: MATCH BR-02 SIZE: MODULAR INSTALL: ROWLOCK	[Symbol]	BR-09 TYPE: BRICK VENEER MANUF: TBD COLOR: MATCH BR-02 SIZE: MODULAR INSTALL: ROWLOCK	[Symbol]



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ISSUE
SITE SUBMITTAL
DRAWING PACKAGE
SHEET TITLE
EXTERIOR
ELEVATIONS

SHEET NO.
A5.03

EXTERIOR MATERIALS REFERENCE

FINISH INFORMATION	GRAPHIC SYMBOL	FINISH INFORMATION	GRAPHIC SYMBOL	FINISH INFORMATION	GRAPHIC SYMBOL	FINISH INFORMATION	GRAPHIC SYMBOL
GL-01 TYPE: SOLARBAN 70 MANUF: VITRO COLOR: SOLARBLUE SIZE: TBD COMMENT: TYP. EXT. GLAZING U.N.O.		GL-02 TYPE: SOLARBAN 70 MANUF: VITRO COLOR: SOLARBLUE SIZE: TBD COMMENT: TYP. EXT. SPANDREL GLAZING		GL-03 TYPE: SECURITY III LEVEL IIA MANUF: MATCH GL-01 COLOR: MATCH GL-01 SIZE: 1/2" GLASS W/ 1/2" AIRSPACE COMMENT: 1/2" GLASS W/ 1/2" AIRSPACE AND 2 LAYERS 3/16" LAMINATED GLASS @ 360 CLEAR PVB W/ BALLISTIC FILM ON #4 FACE		GL-04 TYPE: SECURITY III LEVEL I MANUF: MATCH GL-01 COLOR: MATCH GL-01 SIZE: 1/2" GLASS W/ 1/2" AIRSPACE COMMENT: 1/2" GLASS W/ 1/2" AIRSPACE AND 2 LAYERS 3/16" LAMINATED GLASS @ 360 CLEAR PVB W/ BALLISTIC FILM ON #4 FACE	
MP-01 TYPE: METAL PANEL MANUF: TBD COLOR: TBD SIZE: REF. ELEVATIONS INSTALL: TBD		BR-01 TYPE: BRICK VENEER MANUF: TBD COLOR: TBD SIZE: MODULAR INSTALL: RUNNING BOND		BR-02 TYPE: BRICK VENEER MANUF: TBD COLOR: TBD SIZE: MODULAR INSTALL: RUNNING BOND		BR-03 TYPE: BRICK VENEER MANUF: TBD COLOR: TBD SIZE: MODULAR INSTALL: RUNNING BOND	
ASF-01 TYPE: ARCH EXP. STRUC. STEEL MANUF: TBD COLOR: TBD SIZE: N/A INSTALL: N/A		BR-04 TYPE: BRICK VENEER MANUF: TBD COLOR: MATCH BR-03 SIZE: MODULAR INSTALL: SOLIDER		BR-05 TYPE: BRICK VENEER MANUF: TBD COLOR: MATCH BR-03 SIZE: MODULAR INSTALL: FLEMISH BOND		BR-06 TYPE: BRICK VENEER MANUF: MATCH BR-01 COLOR: MATCH BR-01 SIZE: MATCH BR-01 INSTALL: STACK BOND	
BR-07 TYPE: BRICK VENEER MANUF: MATCH BR-03 COLOR: MATCH BR-03 SIZE: MATCH BR-03 INSTALL: STACK BOND		BR-08 TYPE: BRICK VENEER MANUF: MATCH BR-02 COLOR: MATCH BR-02 SIZE: MATCH BR-02 INSTALL: ROWLOCK		BR-09 TYPE: BRICK VENEER MANUF: MATCH BR-02 COLOR: MATCH BR-02 SIZE: MATCH BR-02 INSTALL: SOLIDER BOND		BR-10 TYPE: BRICK VENEER MANUF: MATCH BR-02 COLOR: MATCH BR-02 SIZE: MATCH BR-02 INSTALL: SOLIDER BOND	

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HKS, INC.
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TYLER, TX 75703

FOOD SERVICE
J&K FOODSERVICE CONSULTING & DESIGN, LLC.
3431 LAKEVIEW PKWY., STE 205
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BIRD

SMITHFIELD ELEMENTARY SCHOOL CAMPUS
REPLACEMENT AND THREE HIGH SCHOOL FINE
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OWNER
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6125 EAST BELKNAP
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INTERIM REVIEW ONLY

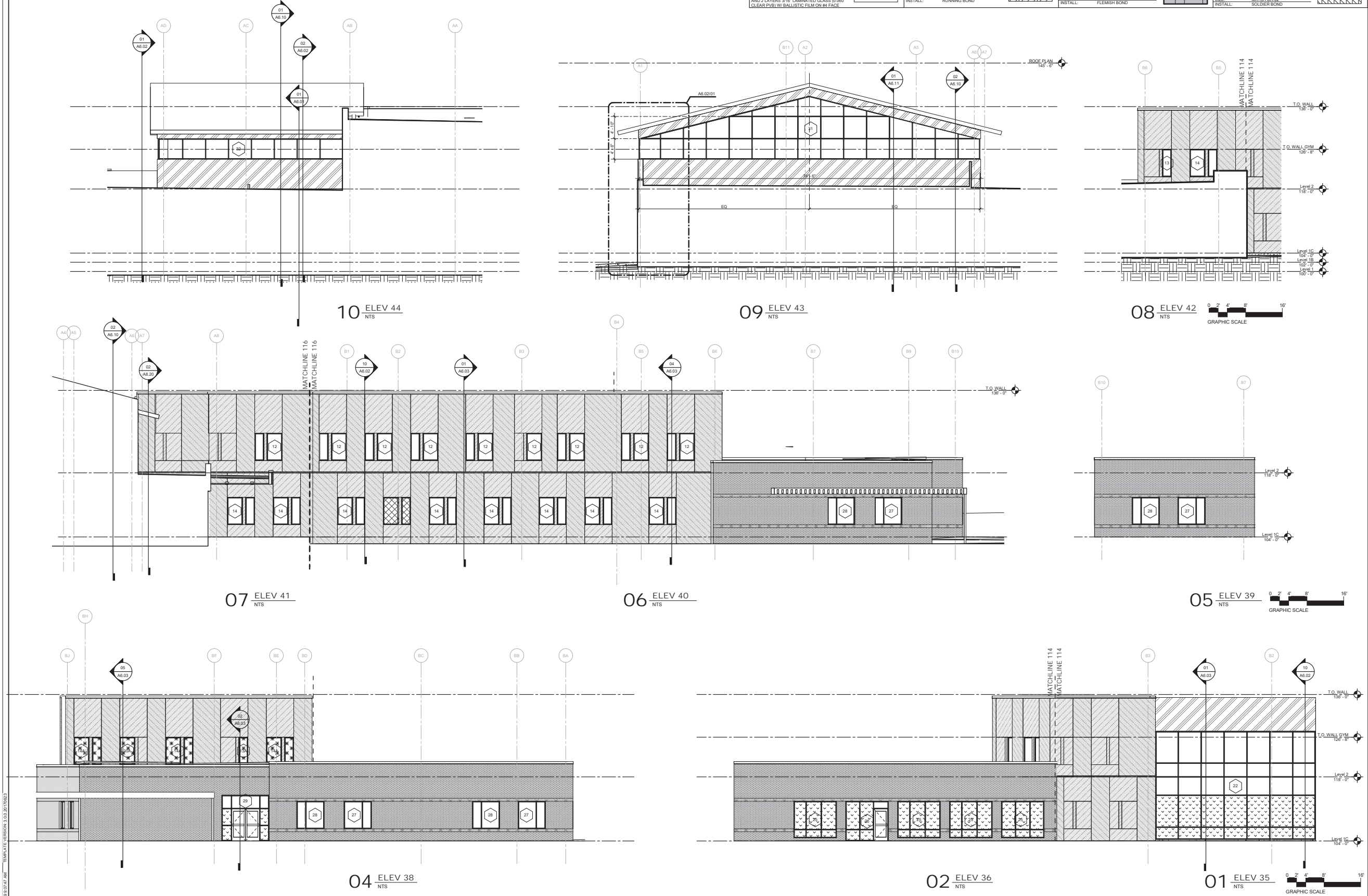
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Architect: MARK VANDERVOORT
Arch. Reg. No.: 001114
Date: 11/15/2019

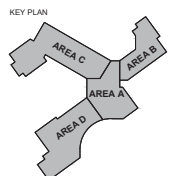
KEY PLAN

REVISION NO.	DESCRIPTION	DATE

PROJECT CASE NUMBER
SP 2019-18
HKS PROJECT NUMBER
22526.000
DATE
12/18/19
ISSUE
SITE SUBMITTAL
DRAWING PACKAGE
SHEET TITLE
EXTERIOR ELEVATIONS



PLOT DATE: 12/18/19 10:47 AM TEMPLATE VERSION: 1.0.0 2/18/19



REVISION NO.	DESCRIPTION	DATE

PROJECT CASE NUMBER
SP 2019-18
HKS PROJECT NUMBER
22526.000
DATE
18 DECEMBER, 2019
ISSUE
75% CONSTRUCTION DOCUMENTS
SHEET TITLE
TREE PROTECTION AND REMOVAL PLAN
SHEET NO.

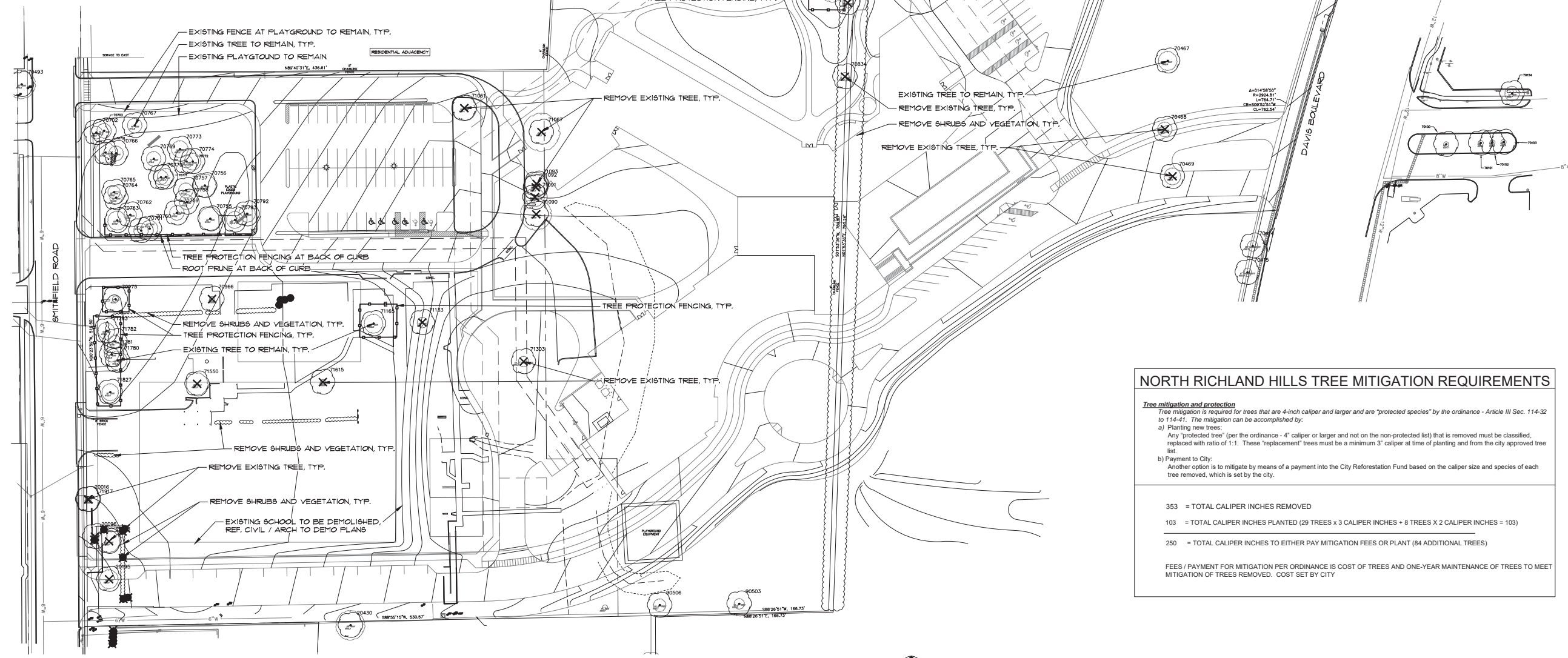
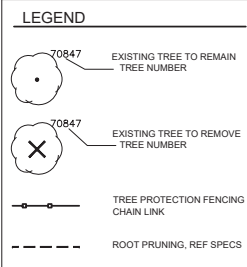
Point #	Size & Type	Remove/Remain	Cal.In. Remove
20096	T-OAK 5	REMOVE	5
20195	T-OAK 18	REMOVE	18
20196	T-OAK 21	REMOVE	21
20430	T-OAK 28	Remain	
70100	T-CRE	Remain	
70101	T-CRE	Remain	
70102	T-CRE	Remain	
70103	T-CRE	Remain	
70154	T-OAK 14	Remain	
70414	T-HAC 10	Remain	
70415	T-HAC 8	Remain	
70467	T-OAK 18	Remain	
70468	T-OAK 14	Remain	
70469	T-OAK 16	Remain	
70477	T-OAK 24	Remain	
70478	T-CHI 8 8	Remain	
70480	T-OAK 20	Remain	
70493	T-OAK 27	Remain	
70701	T-OAK 20	Remain	
70702	T-OAK 12	Remain	
70703	T-OAK 14 12	Remain	
70755	T-OAK 22	Remain	

Point #	Size & Type	Remove/Remain	Cal.In. Remove
70756	T-OAK 22	Remain	
70757	T-OAK 14	Remain	
70758	T-OAK 14	Remain	
70759	T-OAK 14	Remain	
70760	T-OAK 16	Remain	
70761	T-OAK 14	Remain	
70762	T-OAK 12	Remain	
70763	T-OAK 18	Remain	
70764	T-OAK 12	Remain	
70765	T-OAK 12	Remain	
70766	T-OAK 14	Remain	
70767	T-OAK 14	Remain	
70769	T-OAK 14	Remain	
70770	T-OAK 14	Remain	
70771	T-OAK 16	Remain	
70772	T-OAK 12	Remain	
70773	T-OAK 16	Remain	
70774	T-OAK 16	Remain	
70792	T-OAK 16	Remain	
70793	T-OAK 16	Remain	
70798	T-OAK 14	Remain	
70799	T-OAK 14	Remain	

Point #	Size & Type	Remove/Remain	Cal.In. Remove
70802	T-OAK 14	Remain	
70803	T-OAK 14	Remain	
70804	T-OAK 14	Remain	
70815	T-OAK 30	Remain	
70820	T-OAK /24	REMOVE	24
70830	T-OAK /30	REMOVE	30
70831	T-CED /10	REMOVE	10
70834	T-OAK 8 8	REMOVE	8
70847	T-OAK 16	REMOVE	16
70854	T-OAK 30	Remain	
70966	T-CRE	REMOVE	4
70975	T-OAK 6	Remain	
71061	T-OAK 24	REMOVE	24
71067	T-OAK 36	REMOVE	36
71090	T-OAK 30	REMOVE	30
71091	T-OAK 18	REMOVE	18
71092	T-OAK 24	REMOVE	24
71093	T-OAK 22	REMOVE	22
71133	T-OAK 10	REMOVE	10

Point #	Size & Type	Remove/Remain	Cal.In. Remove
71165	T-ELM 18	Remain	
71303	T-HAC 10 10 10 8	REMOVE, not prot	0
71550	T-OAK 21	REMOVE	21
71615	T-CRE	REMOVE	4
71780	T-OAK 18	Remain	
71781	T-OAK 14	Remain	
71782	T-OAK 12	Remain	
71783	T-OAK 16	Remain	
71827	T-OAK 16	Remain	
71917	T-CRE	REMOVE	4
90503	10" TREE	Remain	
90506	12" TREE	Remain	

TOTAL CAL INCHES REMOVED = 353 CALIPER INCHES



NORTH RICHLAND HILLS TREE MITIGATION REQUIREMENTS

Tree mitigation and protection
Tree mitigation is required for trees that are 4-inch caliper and larger and are "protected species" by the ordinance - Article III Sec. 114-32 to 114-41. The mitigation can be accomplished by:

- Planting new trees:
Any "protected tree" (per the ordinance - 4" caliper or larger and not on the non-protected list) that is removed must be classified, replaced with ratio of 1:1. These "replacement" trees must be a minimum 3" caliper at time of planting and from the city approved tree list.
- Payment to City:
Another option is to mitigate by means of a payment into the City Reformation Fund based on the caliper size and species of each tree removed, which is set by the city.

353 = TOTAL CALIPER INCHES REMOVED
103 = TOTAL CALIPER INCHES PLANTED (29 TREES x 3 CALIPER INCHES + 8 TREES x 2 CALIPER INCHES = 103)
250 = TOTAL CALIPER INCHES TO EITHER PAY MITIGATION FEES OR PLANT (84 ADDITIONAL TREES)

FEES / PAYMENT FOR MITIGATION PER ORDINANCE IS COST OF TREES AND ONE-YEAR MAINTENANCE OF TREES TO MEET MITIGATION OF TREES REMOVED. COST SET BY CITY

1 SMITHFIELD ELEMENTARY SCHOOL - TREE PROTECTION AND REMOVAL PLAN
T' = 50'-0"

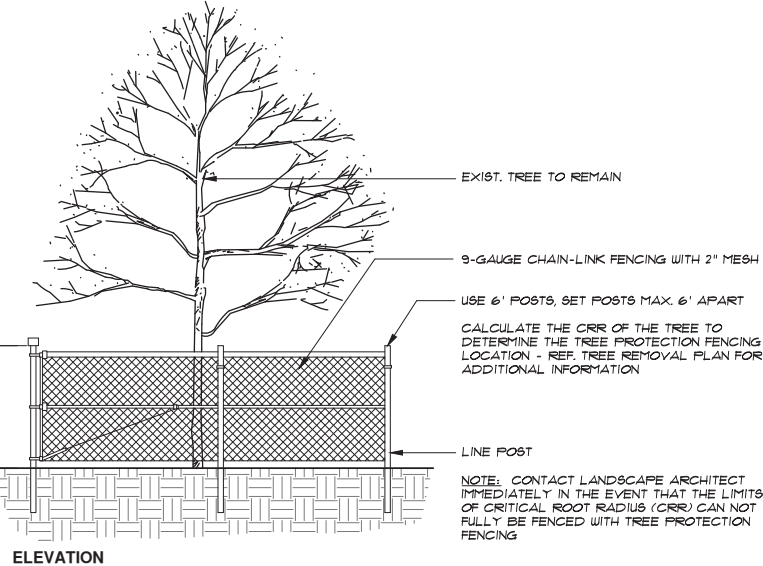
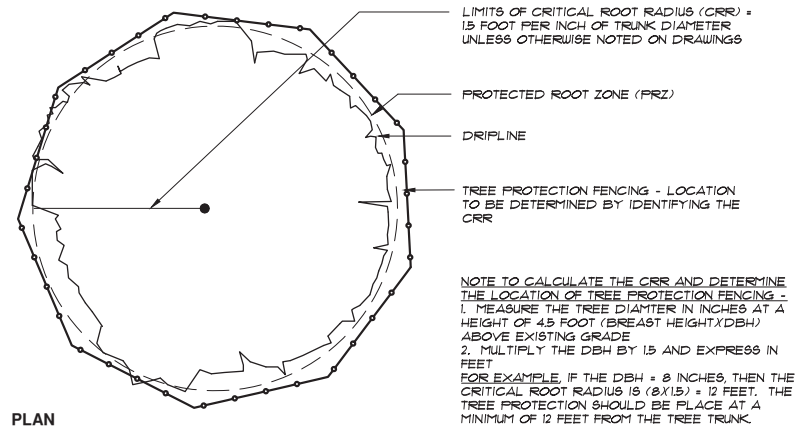


TREE PROTECTION & FENCING NOTES

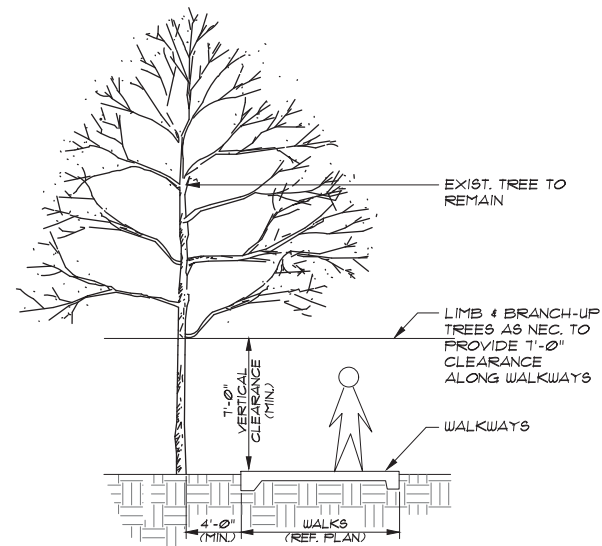
- TREE PROTECTION MUST OCCUR PRIOR TO BEGINNING SITE WORK.
- ALL EXISTING TREES ARE TO REMAIN AND BE PROTECTED DURING CONSTRUCTION UNLESS DESIGNATED AS "TO BE REMOVED" ON THE DRAWINGS. CHAINLINK OR ORANGE SAFETY FENCING (MIN. 4'-0" HEIGHT) SHALL BE INSTALLED AS INDICATED ON PLANS AT THE DRIPLINE OR THE CRITICAL ROOT ZONE (WHICHEVER IS GREATER) OF THE TREE OR GROUP OF TREES TO REMAIN.
- PARKING OF VEHICLES OR PERFORMING WORK WITHIN THESE AREAS OTHER THAN AS SHOWN ON THE PLANS WILL NOT BE ALLOWED. THE TREE PROTECTION SHALL REMAIN DURING THE ENTIRE CONSTRUCTION. OTHER TREE PROTECTION MEASURES SHALL BE IN ACCORDANCE WITH THE CITY OF FORT WORTH STANDARDS AND ORDINANCES.
- THE CONTRACTOR SHALL TAKE CARE IN MINIMIZING THE DISTURBANCE TO THE EXISTING TREE TRUNKS AND ROOT SYSTEMS. ALL DEMOLITION AND TRASH REMOVAL ADJACENT TO EXISTING TREES SHALL BE COMPLETED USING HAND TOOLS WHERE POSSIBLE. NO LARGE EQUIPMENT OR ANY EQUIPMENT WITH TRACKS SHALL BE ALLOWED UNDER THE DRIPLINE OF ANY EXISTING TREES TO REMAIN. THERE SHALL BE NO STORAGE OF MATERIAL WITHIN THE DRIPLINE OF TREES TO REMAIN.
- DISPOSAL OF WASTE MATERIAL, SUCH AS, BUT NOT LIMITED TO, EXCESS SOIL, PAINT, ASPHALT, OIL, SOLVENTS, CONCRETE, MORTAR, ETC. WITHIN THE DRIPLINE OF THE EXISTING TREES SHALL NOT BE ALLOWED.
- NO ATTACHMENTS OR WIRES OF ANY KIND, OTHER THAN THOSE OF A PROTECTIVE NATURE, SHALL BE ATTACHED TO ANY TREE.
- NO FILL OR EXCAVATION OF ANY NATURE SHALL OCCUR WITHIN THE DRIPLINE OF A TREE TO REMAIN OR BE PROTECTED UNLESS SPECIFIED ON THE PLANS. DO NOT STOCKPILE SUB-SOILS UNDER THE TREE DRIPLINE. ALL EXCAVATION DONE WITHIN THE TREE DRIPLINE SHALL BE HAND DUG UNDER THE SUPERVISION OF THE LANDSCAPE ARCHITECT OR THE OWNER'S REPRESENTATIVE.
- TREE PROTECTION SHALL REMAIN IN-PLACE UNTIL ALL CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND ONLY REMOVED UPON APPROVAL BY THE LANDSCAPE ARCHITECT OR THE OWNER'S REPRESENTATIVE.
- WHERE NEW UTILITY LINES ARE CONSTRUCTED WITHIN THE DRIP LINE OF EXISTING TREES, MECHANICALLY BORE THE NEW UTILITY LINE OR ROOT PRUNE THE EXISTING TREE. MECHANICALLY BORE THE UTILITY LINE IF IT IS WITHIN THE DRIP LINE AND WITHIN FIFTEEN FEET OF THE TRUNK OF THE TREE. ROOT PRUNE THE TREE IF THE UTILITY LINE IS WITHIN THE DRIP LINE BUT GREATER THAN FIFTEEN FEET AWAY FROM THE TREE'S TRUNK. REFER TO SPECIFICATIONS FOR BORING AND ROOT PRUNING REQUIREMENTS.
- WHERE NEW IRRIGATION LINES ARE CONSTRUCTED WITHIN THE DRIP LINE OF EXISTING TREES, HAND DIG OR AIR SPADE LINE IF IT IS WITHIN THE DRIP LINE AND WITHIN FIFTEEN FEET OF THE TRUNK OF THE TREE. ROOT PRUNE THE TREE IF THE LINE IS WITHIN THE DRIP LINE BUT GREATER THAN FIFTEEN FEET AWAY FROM THE TREE'S TRUNK. REFER TO SPECIFICATIONS FOR HAND DIGGING, AIR SPADING, AND ROOT PRUNING REQUIREMENTS.

REFERENCE SPECIFICATIONS FOR REPLACEMENT COSTS OF EXISTING TREES DAMAGED OR KILLED DURING CONSTRUCTION ACTIVITIES.

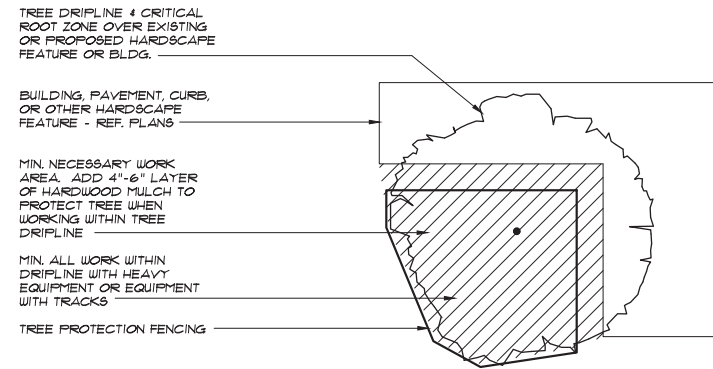
NOTE: DO NOT PARK, DRIVE, ETC. BENEATH ANY EXISTING TREE TO REMAIN, INCLUDING THOSE NOT SHOWN WITH TREE PROTECTION FENCING. ALL EXISTING TREES TO REMAIN ON SITE SHALL BE PROTECTED, WHETHER OR NOT FENCING IS SHOWN.



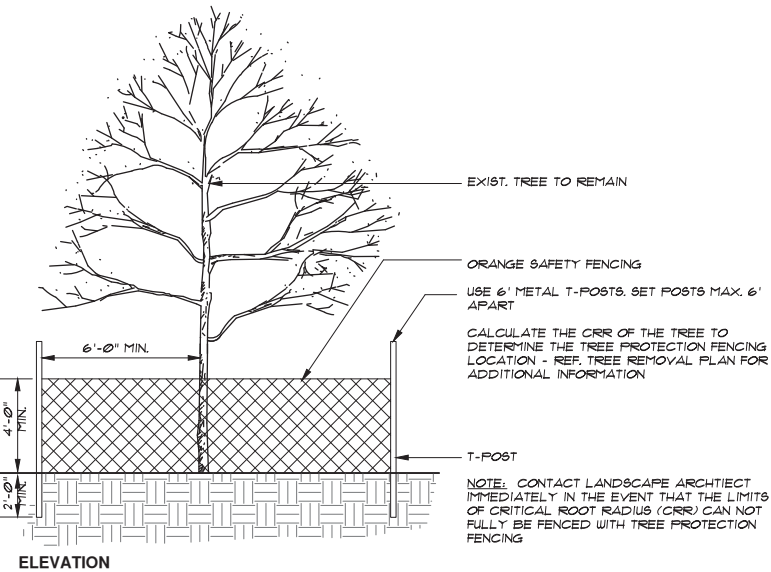
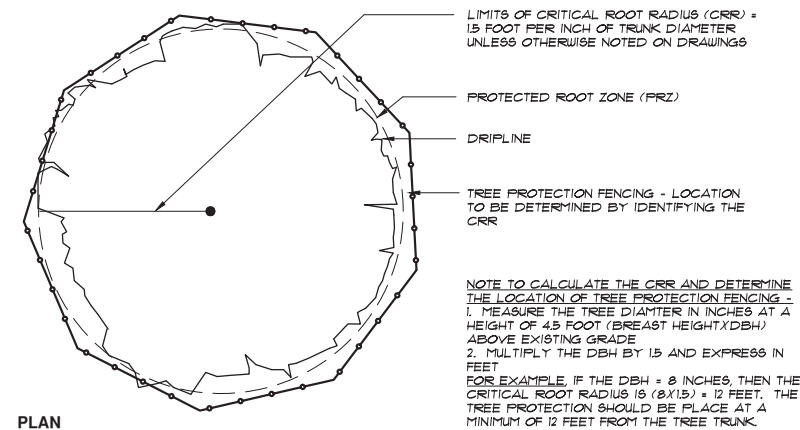
3 TREE PROTECTION FENCING - CHAIN LINK FENCE NOT TO SCALE



4 TREE CLEARANCE AT WALK NOT TO SCALE



1 TREE PROT. FENCE NEAR CONSTRUCTION ACTIVITY NOT TO SCALE



2 TREE PROTECTION FENCING - ORANGE SAFETY FENCE NOT TO SCALE

ARCHITECT
HKS, INC.
350 N SAINT PAUL ST
SUITE 100
DALLAS, TX 75201

CIVIL ENGINEER
RAYMOND L. GOODSON JR., INC.
1201 N CENTRAL EXPRESSWAY, SUITE 300
DALLAS, TEXAS 75241

LANDSCAPE
OCA LANDSCAPE ARCHITECTS, INC.
1270 HILLCREST RD, SUITE 149
DALLAS, TX 75230

STRUCTURAL
JG INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 201
DALLAS, TEXAS 75201

MEP
ESTES MCCLURE & ASSOCIATES, INC.
3608 WEST WAY STREET
TYLER, TX 75703

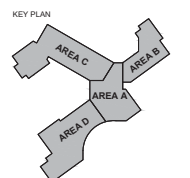
FOOD SERVICE
JMK FOODSERVICE CONSULTING & DESIGN, LLC
3431 LAKEVIEW PKWY, STE 205
ROWLETT, TX 75088



SMITHFIELD ELEMENTARY SCHOOL CAMPUS
REPLACEMENT AND THREE HIGH SCHOOL FINE
ARTS AUDITORIUM UPGRADES

OWNER
BIRDVILLE INDEPENDENT SCHOOL DISTRICT
6125 EAST BELKNAP
HALTOM CITY, TX 76117

INTERIM REVIEW ONLY
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Architect
Arch. Reg. No. 12581275
Date: 12/18/2019



REVISION NO.	DESCRIPTION	DATE

PROJECT CASE NUMBER
SP 2019-18

HKS PROJECT NUMBER
22526.000

DATE
18 DECEMBER, 2019

ISSUE
75% CONSTRUCTION DOCUMENTS

SHEET TITLE
TREE PROTECTION AND REMOVAL DETAILS

SHEET NO.

ARCHITECT
HKS, INC.
350 N SAINT PAUL ST
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CIVIL ENGINEER
RAYMOND L. GOODSON JR., INC.
12031 N CENTRAL EXPRESSWAY, SUITE 300
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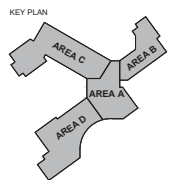
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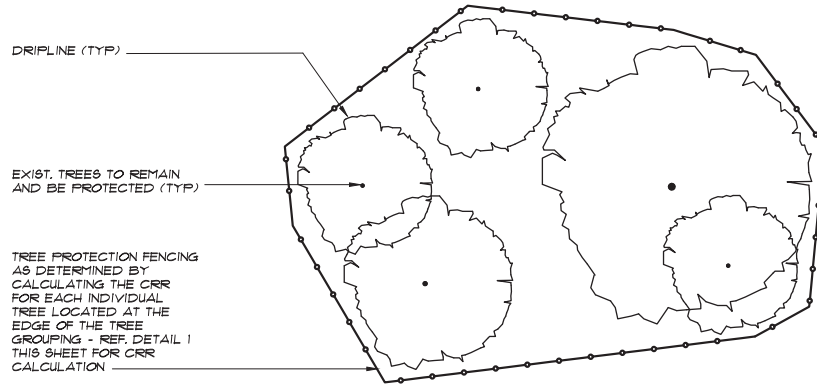
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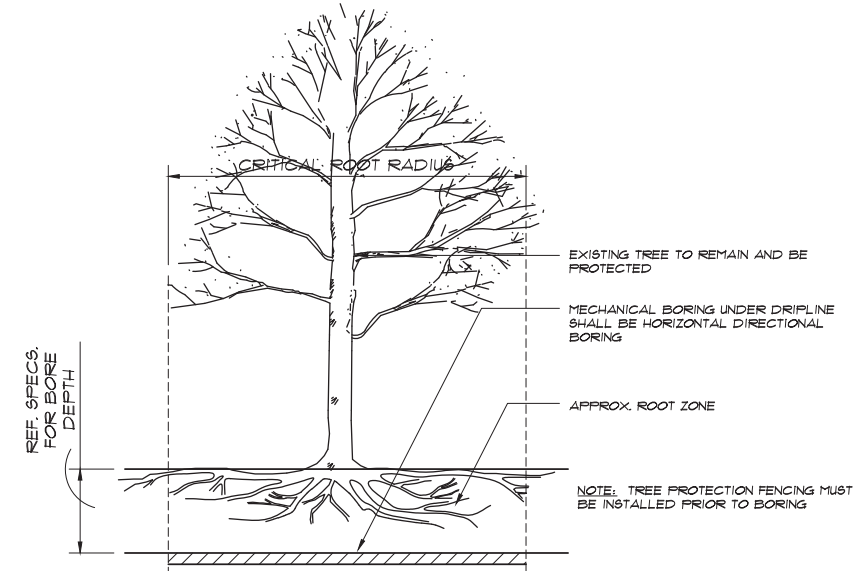
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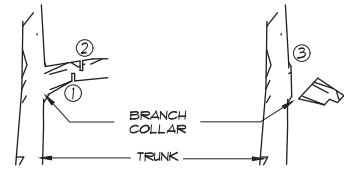


1 TREE PROT. FENCE NEAR CONSTRUCTION ACTIVITY
NOT TO SCALE

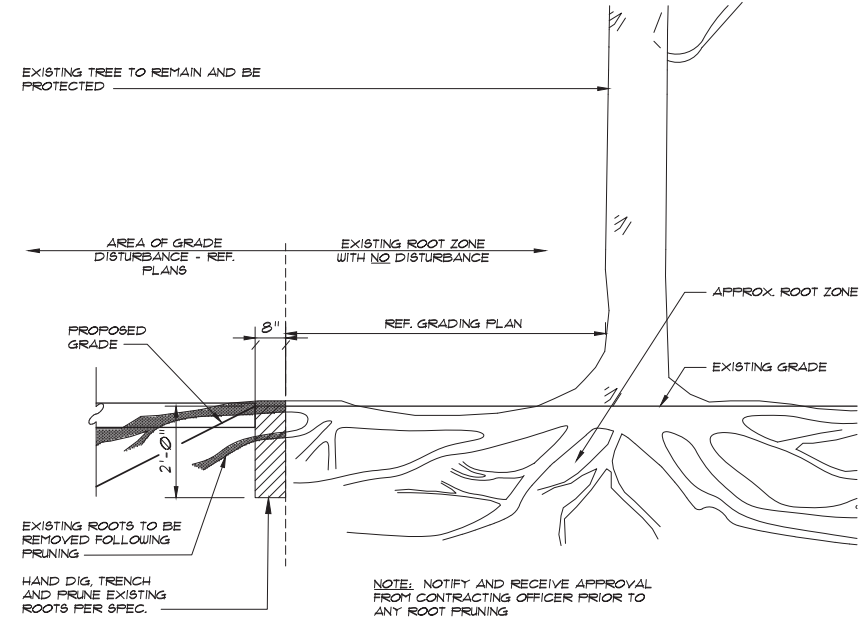


2 BORING UNDER OR NEAR CROWN DRIPLINE - ELEVATION
NOT TO SCALE

USE TO REMOVE TREE LIMBS AS NECESSARY. COMPLY WITH HORTICULTURAL PRACTICES.
STEP 1: SAW BOTTOM CUT APPROX. 6-12" AWAY FROM TRUNK AND APPROX. 1/3 OF THE WAY THROUGH THE LIMB.
STEP 2: MAKE A SECOND CUT APPROX. 3" FURTHER FROM THE TRUNK THAN THE FIRST CUT UNTIL THE WEIGHT OF THE BRANCH FALLS THE BRANCH DOWN.
STEP 3: CUT THE STUB BACK TO THE COLLAR OF THE BRANCH - DO NOT CUT FLUSH WITH TRUNK.
REMOVE AND DISPOSE OF ALL BRANCHES PER NOTES ON SHEET L1 AND SPECIFICATIONS.
NOTE: PRIOR TO LIMB REMOVAL ON EXISTING TREES, GET WRITTEN PERMISSION AND FIELD VERIFICATION FROM OWNER'S REPRESENTATIVE.



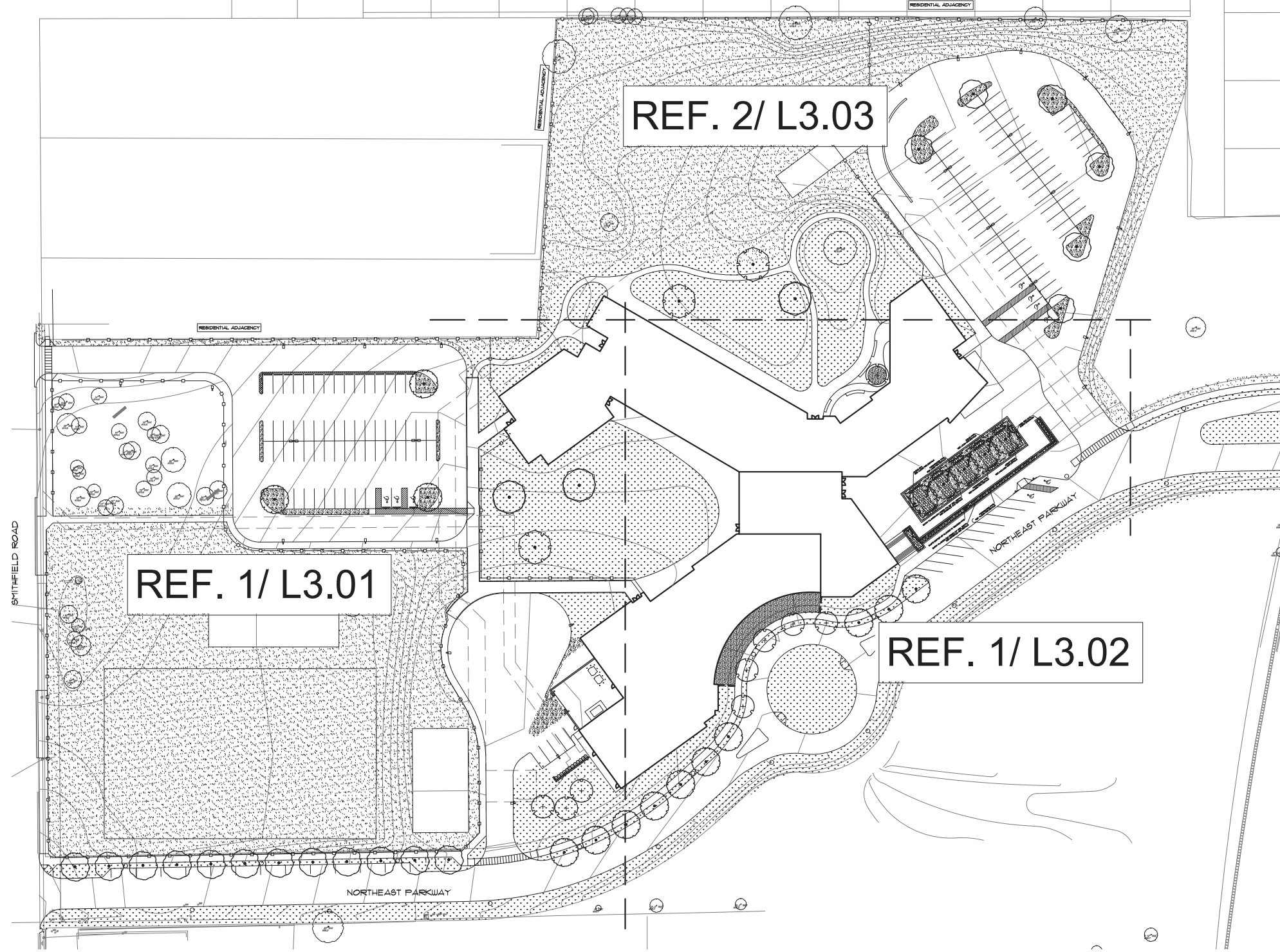
3 3-CUT LIMB PRUNING
NOT TO SCALE



4 ROOT PRUNING AT EXISTING TREES - SECTION
NTS

LEGEND		
TREES	CODE	TREE
		EXISTING TREE TO REMAIN
	CE	CEDAR ELM
	CP	CHINESE PISTACHE
	LO	LIVE OAK
	SO	SHUMARD RED OAK
	CMN	CRAPE MYRTLE
SHRUBS	CODE	SHRUB
	RY	RED YUCCA
	IH	INDIAN HAWTHORN
	DBH	DWARF BURFORD HOLLY SCREENING SHRUB
TURF	CODE	TURF / LAWN
	BG2	BERMUDA GRASS (HYDROMULCH)
	BG1	BERMUDA GRASS (SOLID SOD)
GRND-COVER	CODE	DESCRIPTION
	DG	DECOMPOSED GRANITE AGGREGATE
	LS	LIRIOPE SPICATA
MATERIAL	CODE	DESCRIPTION
		CONC. MOW STRIP / EDGING

- IRRIGATION NOTES**
- ALL SOLID SOD AREAS TO RECEIVE PERMANENT IRRIGATION UNLESS OTHERWISE NOTED
 - PLAY / SOCCER FIELD TO RECEIVE PERMANENT IRRIGATION AS ADD ALTERNATE
 - ALL SEEDED AREAS TO RECEIVE TEMPORARY IRRIGATION TO ESTABLISHMENT UNLESS OTHERWISE NOTED



1 SMITHFIELD ELEMENTARY SCHOOL - PLANTING PLAN - KEY PLAN
1" = 50'-0"

LANDSCAPE PLANTING NOTES

- FINAL GRADING SHALL BE INSTALLED BY THE CONTRACTOR AND APPROVED BY THE OWNER'S REPRESENTATIVE IN THE FIELD PRIOR TO PLANTING OR PLANTING LAYOUT.
- TREES ARE TO BE CENTERED IN EACH TREE PLANTER. CONTRACTOR SHALL STAKE OUT ALL TREE LOCATIONS FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO EXCAVATION. OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO ADJUST TREES TO EXACT LOCATION IN FIELD.
- UNLESS DIMENSIONED ON THE PLAN, ALL PROPOSED TREE LOCATIONS ARE DIAGNOSTIC. CONTRACTOR SHALL STAKE OUT ALL NORMAL TREE LOCATIONS IN THE FIELD USING COLORED FLAGS FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO EXCAVATION. OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO ADJUST PLANTS TO EXACT LOCATION IN THE FIELD.
- SHRUB BED LAYOUTS SHALL BE STAKED FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO SOIL PREPARATION. ALIGN AND EQUALLY SPACE IN ALL DIRECTIONS. ALL SHRUBS AS NOTED IN THE DRAWINGS.
- FINISH GRADE OF SHRUB BEDS SHALL BE THREE AND ONE HALF (3 1/2) INCHES BELOW ADJACENT PAVEMENT OR CURB WHERE TWO (2) INCHES COMPOST AND TWO (2) INCHES MULCH IS TO BE APPLIED.
- UNLESS OTHERWISE INDICATED, ALL SHRUB BEDS SHALL BE TOPDRESSED WITH A TWO (2) INCH COMPOST LAYER COVERED WITH A TWO (2) INCH MULCH LAYER. CONTRACTOR SHALL PROVIDE SAMPLES OF COMPOST AND MULCH TO THE OWNER'S REPRESENTATIVE ALONG WITH SPECIFIC TEST DATA PER THE REQUIREMENTS OF THE SPECIFICATIONS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADVISE THE OWNER'S REPRESENTATIVE OF ANY CONDITION FOUND ON THE SITE WHICH PROHIBITS INSTALLATION AS SHOWN ON THESE DRAWINGS.
- ALL PLANT MATERIAL SHALL BE MAINTAINED IN A HEALTHY AND GROWING CONDITION, AND MUST BE REPLACED WITH PLANT MATERIAL OF SIMILAR VARIETY, CHARACTER AND SIZE IF DAMAGED, DESTROYED, OR REMOVED.
- CONTRACTOR SHALL MEET OR EXCEED ALL MINIMUM SIZES LISTED IN PLANT SCHEDULE INCLUDING CONTAINER SIZE.
- LANDSCAPE AREAS SHALL BE KEPT FREE OF TRASH, LITTER, AND WEEDS AT ALL TIMES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINE GRADING, REMOVAL OF MISCELLANEOUS DEBRIS AND ANY ADDITIONAL FILL REQUIRED TO CREATE A SMOOTH CONDITION PRIOR TO PLANTING IN ALL PLANTER LEAVE-OUTS.
- EXCESS SOIL FROM LANDSCAPE GRADING TO BE REMOVED AND DISPOSED OFF-SITE BY CONTRACTOR.
- FINISH MULCH GRADES OF ALL TREE BASES SHALL BE (1/2") BELOW ADJACENT PAVEMENT ELEVATION. IN AREAS WHERE A COMBINED (4") LAYER OF MULCH AND COMPOST IS TO BE APPLIED FINISH SOIL GRADES SHALL BE (4 1/2") BELOW ADJACENT PAVEMENT OR CURB.
- CONTRACTOR SHALL PATCH ALL AREAS OF DISTURBED LAWN WITH SOLID SOD COMMON BERMUDA GRASS - REF. PLANS. NEW SOD SHALL BE FLUSH TO EXISTING TURF.
- REPLACE DEAD PLANTS WITHIN 1 DAYS AFTER DETERMINATION OF CONDITION.

TREE REQUIREMENTS

- ROOT SYSTEM DEVELOPMENT:**
- ALL NAMED CULTIVARS WILL BE GUN ROOT CLONES, NO GRAFTER OR BUD-GRAFTED TREES WILL BE ACCEPTED.
 - 100% MECHANICALLY ROOT-PRUNED AT LEAST ONCE AND TRANSPLANTED A MINIMUM OF 3 TIMES DURING THE FIRST 3 YEARS OF THE TREE'S LIFE.
 - THE TREES WILL HAVE BEEN GROWN IN HEAVY CLAY SOIL AND IRRIGATED WITH DRIP IRRIGATION.
 - THE TRUNK FLARE MUST BE ABOVE GROUND AND VISIBLE AT NURSERY BEFORE HARVEST AND AFTER TRANSPLANTING INTO THE LANDSCAPE.
 - THE ROOT BALLS WILL HAVE BEEN HEELED IN FOR AT LEAST 30 DAYS AND HAVE A FLESH FLUSH OF NEW ROOT GROWTH INTO THE BURLAP.
 - NO GIRDLING ROOTS.
- CANOPY DEVELOPMENT:**
- TREES WILL HAVE A STRONG CENTRAL LEADER TO TOP OF THE CANOPY. THE TIP OF THE LEADER ON THE MAIN TRUNK MUST BE INTACT AND TERMINAL BUD AT THE HIGHEST PART.
 - NO BRANCH CAN HAVE A DIAMETER GREATER THAN 2/3 THE TRUNK DIAMETER MEASURED DIRECTLY ABOVE THE BRANCH CROTCH. THE TREE WILL HAVE NO INCLUSIONS OR CO-DOMINANT BRANCHES.
 - THE TREE CROWN MUST BE STRUCTURALLY UNIFORM. BRANCHES WILL BE EVENLY DISTRIBUTED AROUND THE TRUNK. THE CROWN WILL BE FULL OF FOLIAGE EVENLY DISTRIBUTED AROUND THE TREE.

NORTH RICHLAND HILLS LANDSCAPE REQUIREMENTS

Landscape Area - 15% of total lot is required to be landscaped. Article III Sec. 114.71
Minimum of 15% of the total lot is required to be landscaped with turf, groundcover, shrubs, or trees. Pavement and aggregate areas do not count.

481,302 sf (total site) x 15% = 72,195 sf. Note: site meets and exceeds this requirement.

Street Trees / Landscape Setback Along Road
City Ordinance = 1 large tree or 2 ornamental trees per 50 LF of street frontage (minimum 3" caliper tree required). General Street - 60-ft ROW.

- New Road = 1,117 LF / 50 = 23 large trees (existing or proposed) within 15-foot buffer. This includes PH 1 and PH 2 area
- Smithfield Road = 460 LF / 50 = 10 large trees (existing or proposed) within 15-foot buffer

Street Tree Total: City Ord = 33 Trees; Trees provided = 9 shade and 7 ornamental along Northeast Parkway (0 along Smithfield in order to preserve existing trees in this location). Also, no trees planted between school and Davis Blvd. along Northeast Parkway.

Note: Overhead utility lines are along Smithfield Road

Parking Lot Screening TOD pg. 32, Sec 119-567
City Ordinance = One of the following is required to screen parking from public right-of-way and open space:

- Screening Shrubs - 3-ft o.c., 2-ft height at time of planting
- Walls - masonry (height not specified)
- Berms - 1-3 slopes 30-inch height

Parking Lot A (West Parking Lot) = Screen Wall / Fence
Parking Lot B (East Parking Lot) = no screening shrubs
Parking Lot at Cafeteria = Screening shrubs (11 - 5gal evergreen) with 46-LF conc. mow strip per TDG

Parking Lot Trees
City Ordinance = 1 large tree per 20 spaces

- East Parking Lot A = 83 spaces / 20 = 5 trees
- West Parking Lot B = 59 spaces / 20 = 3 trees

Parking Lot Tree Total: City Ord = 8 Trees; Trees Provided = 9 Trees

Residential Buffer - City Ordinance = 15 Ft. buffer yard with 1 large tree per 30 LF required where non-residential and residential zoning are adjacent. Article III Sec. 114-72
Residential Adjoining per City Ordinance = 1,275 LF / 30 = 43 Trees. None provided - existing trees to remain along perimeter. Fence provided in some locations, ref. arch.



ARCHITECT
HKS, INC.
350 N SAINT PAUL ST
SUITE 100
DALLAS, TX 75201

CIVIL ENGINEER
RAYMOND L. GOODSON JR., INC.
12031 N CENTRAL EXPRESSWAY, SUITE 300
DALLAS, TEXAS 75243

LANDSCAPE
OCA LANDSCAPE ARCHITECTS, INC.
1270 HILLCREST RD, SUITE 149
DALLAS, TX 75230

STRUCTURAL
JG INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 201
DALLAS, TEXAS 75201

MEP
ESTES MCCLURE & ASSOCIATES, INC.
3608 WEST WAY STREET
TYLER, TX 75703

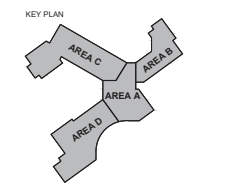
FOOD SERVICE
JMK FOODSERVICE CONSULTING & DESIGN, LLC
3431 LAKEVIEW PKWY, STE 205
ROWLETT, TX 75088



SMITHFIELD ELEMENTARY SCHOOL CAMPUS
REPLACEMENT AND THREE HIGH SCHOOL FINE
ARTS AUDITORIUM UPGRADES

OWNER
BIRDVILLE INDEPENDENT SCHOOL DISTRICT
6125 EAST BELKNAP
HALTOM CITY, TX 76117

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REVISION NO.	DESCRIPTION	DATE

PROJECT CASE NUMBER
SP 2019-18
HKS PROJECT NUMBER
22526.000
DATE
18 DECEMBER, 2019
ISSUE
75% CONSTRUCTION DOCUMENTS
SHEET TITLE
PLANTING PLAN

SHEET NO.
L3.00

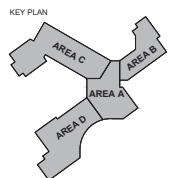
CASE SP 2019-18

PLOT DATE: 12/18/2019



SMITHFIELD ELEMENTARY SCHOOL CAMPUS
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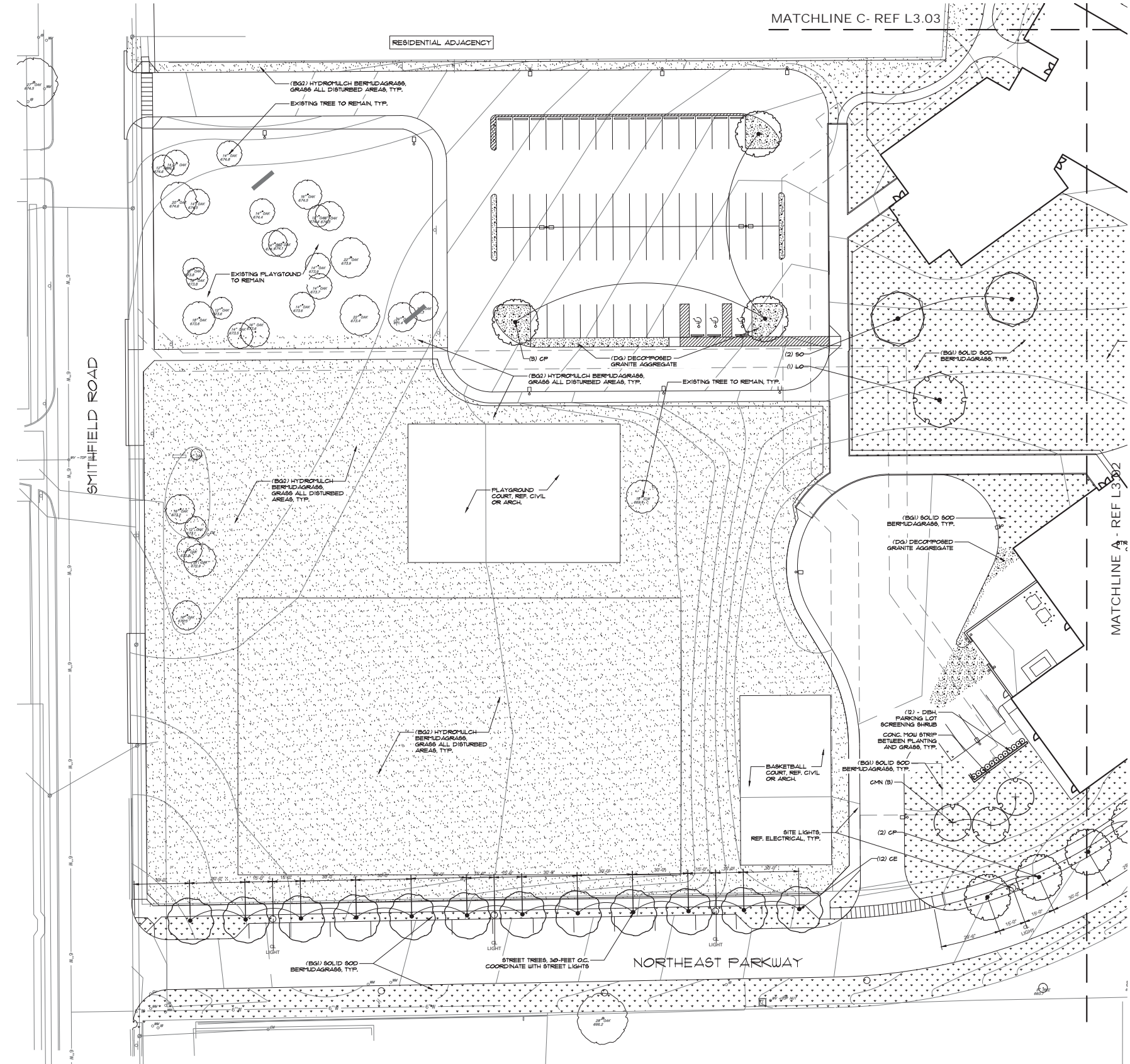
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PLANTING PLAN

LEGEND		
TREES	CODE	TREE
		EXISTING TREE TO REMAIN
	CE	CEDAR ELM
	CP	CHINESE PISTACHE
	LO	LIVE OAK
	SO	SHUMARD RED OAK
	CMN	CRAPE MYRTLE
SHRUBS	CODE	SHRUB
	RY	RED YUCCA
	IH	INDIAN HAWTHORN
	DBH	DWARF BURFORD HOLLY PARKING LOT SCREENING SHRUB
TURF	CODE	TURF / LAWN
	BG2	BERMUDA GRASS (HYDROMULCH)
	BG1	BERMUDA GRASS (SOLID SOD)
GRND-COVER	CODE	DESCRIPTION
	DG	DECOMPOSED GRANITE AGGREGATE
	LS	LIRIOPE SPICATA
MATERIAL	CODE	DESCRIPTION
		CONC. MOW STRIP / EDGING



1 SMITHFIELD ELEMENTARY SCHOOL - PLANTING PLAN
1" = 30'-0"

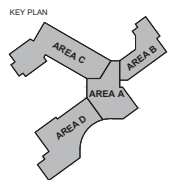


PLOT DATE: REPLICATE VERSION



SMITHFIELD ELEMENTARY SCHOOL CAMPUS
REPLACEMENT AND THREE HIGH SCHOOL FINE
ARTS AUDITORIUM UPGRADES

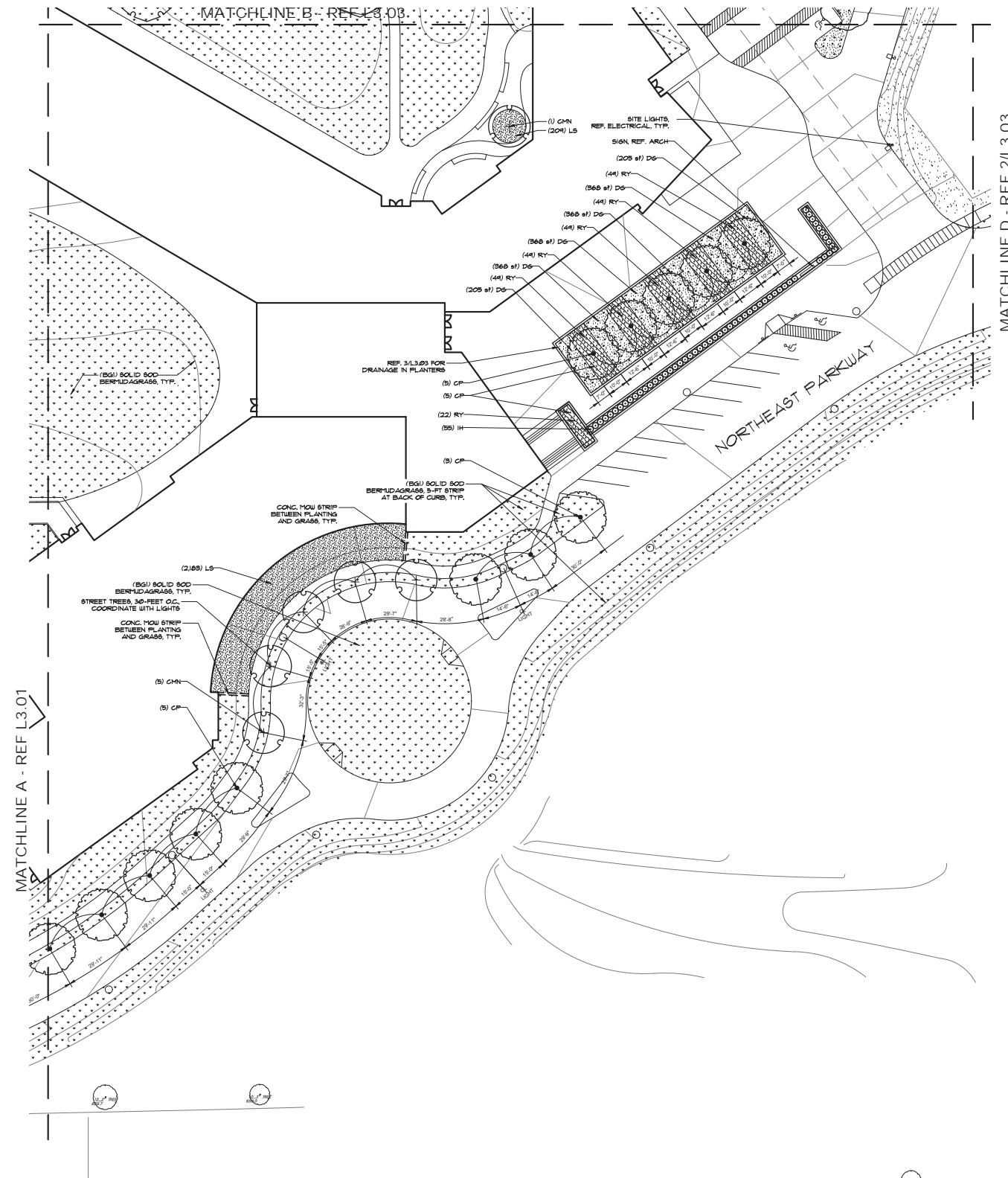
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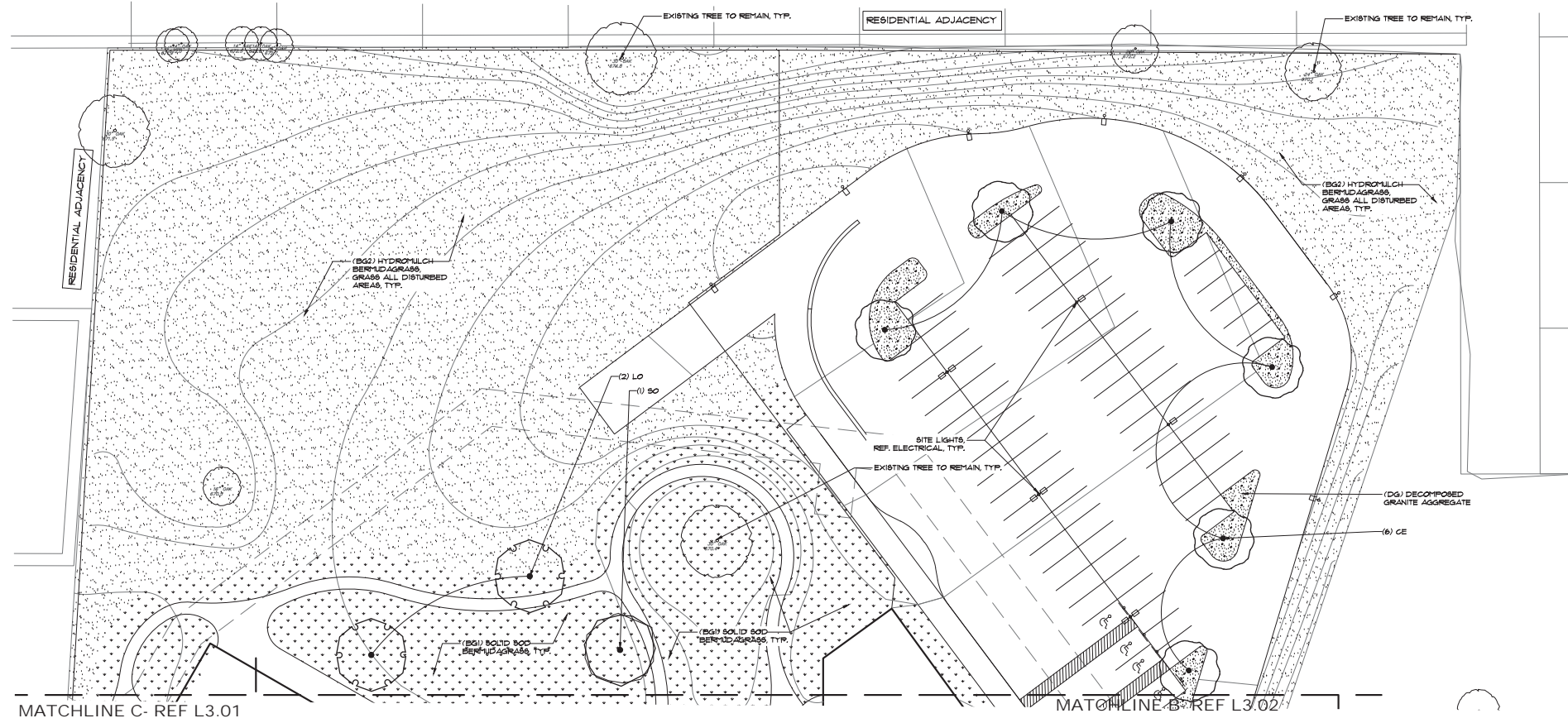
TREES	CODE	TREE
		EXISTING TREE TO REMAIN
	CE	CEDAR ELM
	CP	CHINESE PISTACHE
	LO	LIVE OAK
	SO	SHUMARD RED OAK
	CMN	GRAPE MYRTLE
SHRUBS	CODE	SHRUB
	RY	RED YUCCA
	IH	INDIAN HAWTHORN
	DBH	DWARF BURFORD HOLLY PARKING LOT SCREENING SHRUB
TURF	CODE	TURF / LAWN
	BG2	BERMUDA GRASS (HYDROMULCH)
	BG1	BERMUDA GRASS (SOLID SOD)
GRND-COVER	CODE	DESCRIPTION
	DG	DECOMPOSED GRANITE AGGREGATE
	LS	LIRIOPE SPICATA
MATERIAL	CODE	DESCRIPTION
		CONC. MOW STRIP / EDGING



1 SMITHFIELD ELEMENTARY SCHOOL - PLANTING PLAN
1" = 30'-0"



LEGEND		
TREES	CODE	TREE
		EXISTING TREE TO REMAIN
	CE	CEDAR ELM
	CP	CHINESE PISTACHE
	LO	LIVE OAK
	SO	SHUMARD RED OAK
	CMN	GRAPE MYRTLE
SHRUBS	CODE	SHRUB
	RY	RED YUCCA
	IH	INDIAN HAWTHORN
	DBH	DWARF BURFORD HOLLY PARKING LOT SCREENING SHRUB
TURF	CODE	TURF / LAWN
	BG2	BERMUDA GRASS (HYDROMULCH)
	BG1	BERMUDA GRASS (SOLID SOD)
GRND-COVER	CODE	DESCRIPTION
	DG	DECOMPOSED GRANITE AGGREGATE
	LS	LIRIOPE SPICATA
MATERIAL	CODE	DESCRIPTION
		CONC. MOW STRIP / EDGING



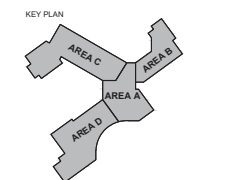
1 SMITHFIELD ELEMENTARY SCHOOL - PLANTING PLAN
1" = 30'-0"

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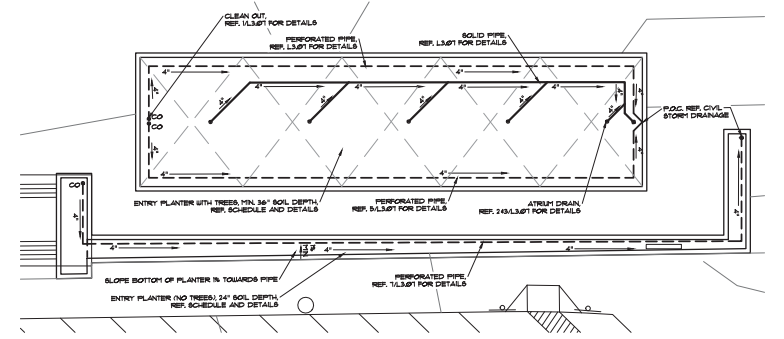
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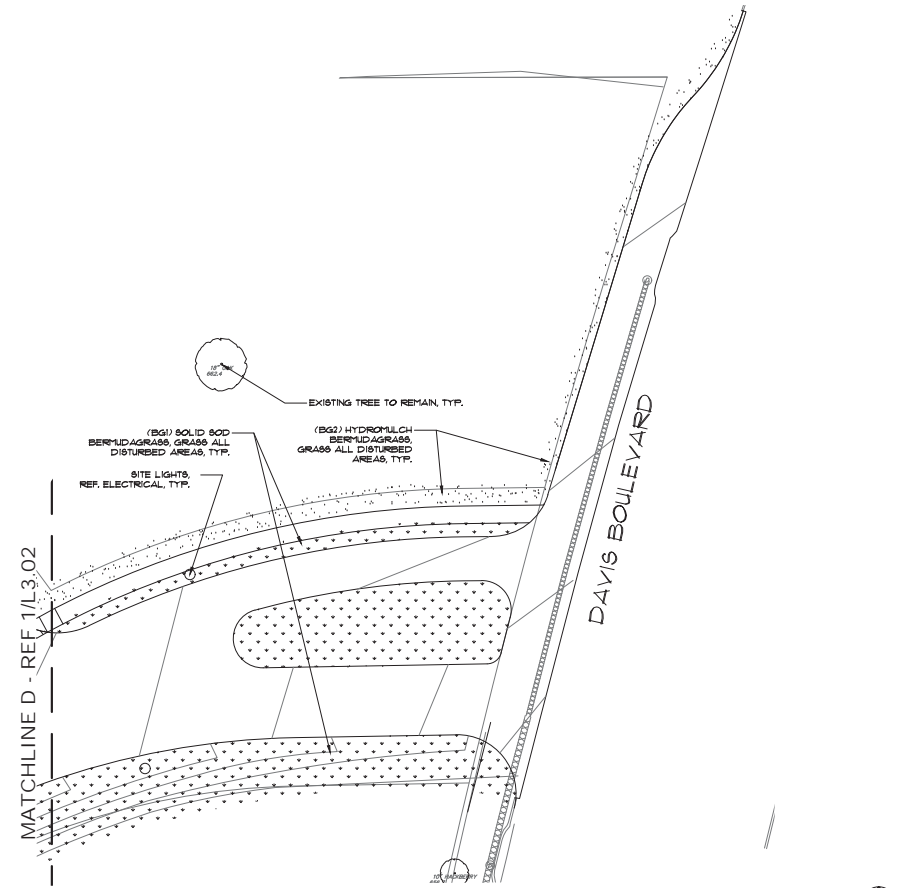
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 PLANTING PLAN

SHEET NO.
L3.03



3 SMITHFIELD ELEMENTARY SCHOOL - LANDSCAPE DRAINAGE PLAN
1" = 20'-0"



2 SMITHFIELD ELEMENTARY SCHOOL - PLANTING PLAN
1" = 30'-0"

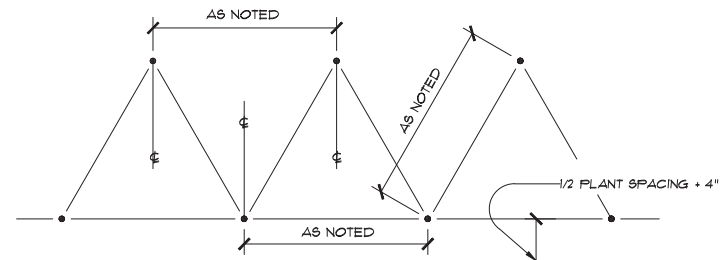
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CASE SP 2019-18
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PLANT AND MATERIAL SCHEDULE

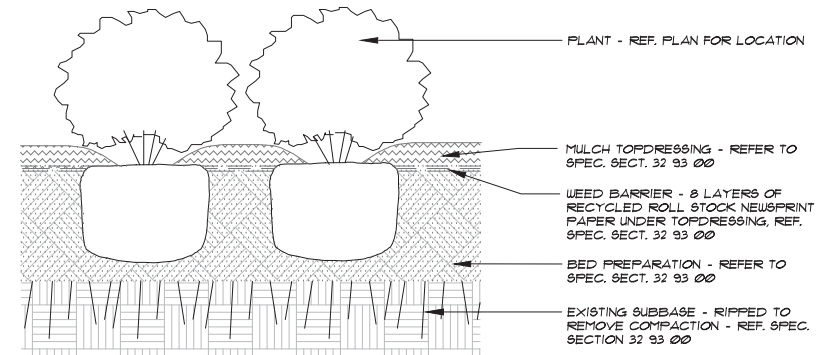
TREES	CODE	COMMON NAME / BOTANICAL NAME	CONT	CAL	SIZE	REMARKS	QTY
	CE	CEDAR ELM / ULMUS CRASSIFOLIA	B&B	3" CAL. MIN.	11'-13' H X 4'-6" W MIN.	FULL, WELL BRANCHED, VERTICAL GROWTH HABIT NO CROSSING OR RUBBING BRANCHES	18
	CP	CHINESE PISTACHE / PISTACIA CHINENSIS	B&B / CONT.	3" CAL. MIN.	11'-13' H X 4'-6" W MIN.	FULL, WELL BRANCHED, VERTICAL GROWTH HABIT	18
	LO	LIVE OAK / QUERCUS VIRGINIANA	B&B	3" CAL. MIN.	11'-13' H X 4'-6" W MIN.	FULL, WELL BRANCHED, VERTICAL GROWTH HABIT	3
	SO	RED OAK / QUERCUS SHUMARDII	B&B	3" CAL. MIN.	11'-13' H X 4'-6" W MIN.	FULL, WELL BRANCHED, VERTICAL GROWTH HABIT	3
	CMN	CRAPE MYRTLE / LAGERSTROEMIA x 'NATCHEZ'	B&B / CONT.	2" CAL. MIN. 15 GAL. MIN.	8' H X 3'-5" W MIN.	FULL, WELL BRANCHED, VERTICAL GROWTH HABIT, STANDARD, NO CROSSING OR RUBBING BRANCHES	9
SHRUBS	CODE	COMMON NAME / BOTANICAL NAME	SIZE	REMARKS	SPACING	QTY	
	RY	RED YUCCA / HESPERALOE PARVIFLORA	3 GAL	FULL TO BASE, HEAVILY ROOTED	TRIANGULAR SPACING AT 24" O.C., 0.28 PLANTS PER SF	+/- 267	
	IH	INDIAN HAWTHORN / HESPERALOE PARVIFLORA	3 GAL	FULL TO BASE, HEAVILY ROOTED	SINGLE ROW AT 36" O.C.	+/- 55	
	DBH	PARKING LOT SCREENING SHRUB DWARF BURFORD HOLLY / ILEX CORNUTA 'BURFORDII NANA'	5 GAL.	FULL TO BASE, HEAVILY ROOTED	SINGLE ROW AT 36" O.C.	12	
GROUND COVERS	CODE	COMMON NAME / BOTANICAL NAME	CONT	REMARKS	QTY		
	BG2	BERMUDA GRASS / CYNODON DACTYLON	SEED	HYDROMULCH, REF. SPEC 329200	+/- 185,200 SF		
	BG1	BERMUDA GRASS / CYNODON DACTYLON 'TIFFWAY 419'	SOD	SOLID SOD, REF. SPEC 329200	+/- 98,700 SF		
	DG	AGGREGATE - DECOMPOSED GRANITE OVER 2 LAYERS FILTER FABRIC	3-1/2" DEPTH	REF. SPEC 329300	+/- 4,710 SF		
	LS	LIRIOPE SPICATA	4" POT	FULL TO BASE, HEAVILY ROOTED	TRIANGULAR SPACING AT 12" O.C., 1.15 PLANT PER SF	+/- 2,536	
MATERIALS	ITEM	DEPTH	REMARKS	QTY			
PLANTING BEDS FOR SHRUBS AND GROUND COVER: NOTE - FIELD VERIFY ALL QUANTITIES, ALL BEDS TO BE FULL, REFER TO DETAILS AND SPECS							
	MULCH - TOPDRESSING PLANTING BEDS	3" DEPTH	RUSTIC CUT HARDWOOD OR APPROVED EQUIVALENT, COMPACTED DEPTH, REF. SPEC SECT 32 9300	FIELD VERIFY			
	COMPOST - PLANTING BEDS	3" DEPTH	ORGANIC, WELL-DECOMPOSED, REF. SPEC SECT 329300	FIELD VERIFY			
	WEED BARRIER - NEWSPRINT PLANTING BEDS	8 LAYERS	8 LAYERS OF NEWSPRINT AT PLANTING BEDS, REF. DETAILS AND SPEC SECT 32 9300	FIELD VERIFY			
	EXPANDED SHALE - PLANTING BEDS	3" DEPTH	PLANTING BEDS, SUPPLIED BY SOIL BUILDING SYSTEMS OR APPROVED EQUAL, REF. SPEC SECT 32 9300	FIELD VERIFY			
	ORGANIC BIOLOGICAL FERTILIZER - PLANTING B.		REF. SPEC SECT 329200 FOR MATERIAL AND APPLICATION RATE	FIELD VERIFY			
	FILTER FABRIC	2 LAYERS	2 LAYERS BENEATH AGGREGATE, REF. SPEC SECT 32 9300	+/- 4,710 SF X 2			
	CONC. MOW STRIP - LANDSCAPE EDGING		12-INCH WIDE CONC. MOW STRIP PER BISD STANDARDS	100 LF			
LAWN / TURF GRASS: NOTE - FIELD VERIFY ALL QUANTITIES, ALL DISTURBED AREAS TO BE GRASSED, REFER TO DETAILS AND SPECS							
	TOPSOIL - LAWN / TURF GRASS	1 1/2" DEPTH	REF. DETAILS AND SPECS	FIELD VERIFY			
	COMPOST - LAWN / TURF GRASS	1/2" DEPTH	ORGANIC, WELL-DECOMPOSED, REF. DETAILS AND SPECS SUPPLIED BY SOIL SYSTEMS OR APPROVED EQUAL, REF. SPEC 32 9300	FIELD VERIFY			
	ORGANIC BIOLOGICAL FERTILIZER - LAWN		REF. SPEC SECT 329200 FOR MATERIAL AND APPLICATION RATE	FIELD VERIFY			
PLANTERS AT ENTRY:							
	SOIL MIX - TREE MIX	+/- 36" WITH TREES +/- 24" WITHOUT TREES	SUPPLIED BY SOIL BUILDING SYSTEMS OR APPROVED EQUAL, REF. SPECS FOR PRODUCT INFO AND INSTALLATION	FIELD VERIFY			
	MULCH - TOPDRESSING	3"	FINE CUT HARDWOOD SUPPLIED BY SOIL BUILDING SYSTEMS OR APPROVED EQUAL, REF. SPEC 32 9300	FIELD VERIFY			
	COMPOST - TOPDRESSING	2"	ORGANIC, WELL-DECOMPOSED, SUPPLIED BY SOIL BUILDING SYSTEMS OR APPROVED EQUAL, REF. SPEC 32 9300	FIELD VERIFY			
	DG / DECOMPOSED GRANITE AGG.	3 1/2"	THICK LAYER OVER 2 LAYERS FILTER FABRIC, AS SUPPLIED BY JEWEL/OLD CASTLE OR APPROVED EQUAL, REF. SPEC 32 9300	+/- 1,882 SF			
	FILTER FABRIC		2 LAYERS BENEATH AGGREGATE, REF. SPEC 32 9300	1,882 SF X 2 LAYERS			
	SUB-DRAINAGE - AGGREGATE - #8 STONE	3"	AS SUPPLIED BY JEWEL/OLD CASTLE, VAQUERO STONE AND SUPPLY, APPROVED EQUAL, REF. SPECS	FIELD VERIFY			
	SUB-DRAINAGE - AGGREGATE - #57 STONE	3"	AS SUPPLIED BY JEWEL/OLD CASTLE, VAQUERO STONE AND SUPPLY, APPROVED EQUAL, REF. SPECS	FIELD VERIFY			

NOTE - QUANTITIES ARE APPROXIMATE, FIELD VERIFY FOR ACCURACY. ALL PLANTING BEDS TO BE FULL AND PREPARED PER SPECIFICATIONS. ALL DISTURBED AREAS TO BE GRASSED AND SOIL PREPARED PER SPECIFICATIONS.
 NOTE - PLANT OR MATERIAL SUBSTITUTIONS MUST BE SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.
 NOTE - SUBMITTALS TO BE PROVIDED TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION.
 NOTE - SAMPLES / SUBMITTALS TO BE PROVIDED TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION.

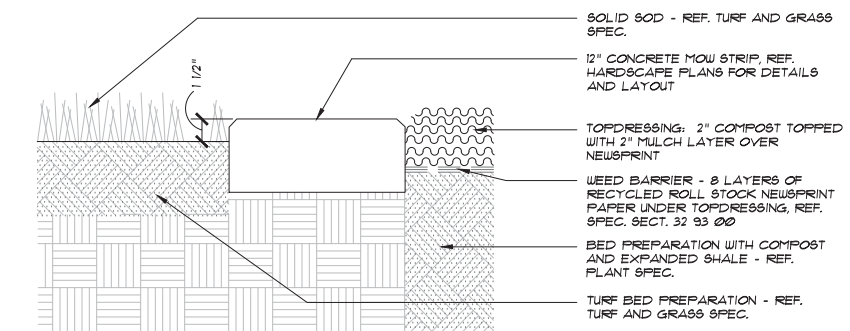


NOTE: SPACING DIAGRAM REFERS TO ALL PLANTING UNLESS NOTED OTHERWISE.

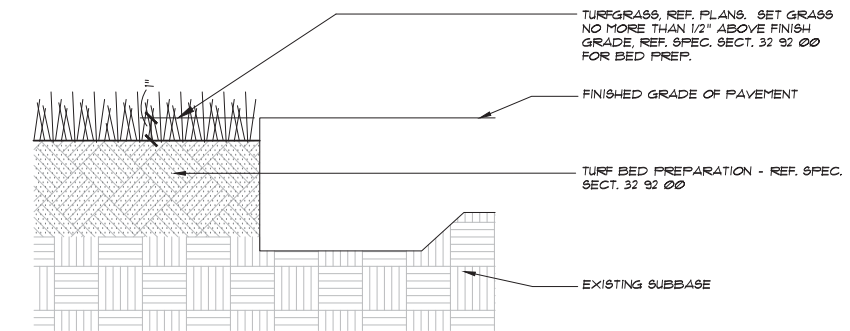
1 TRIANGULAR SPACING - PLAN
NTS



2 SHRUB/PERENNIAL/ORNAMENTAL AT BEDS - SECT.
NTS



3 TURF BED AT MOW STRIP AT PLANTER BED - SECTION
NTS



4 LAWN AT PAVEMENT - SECTION
NTS



ARCHITECT
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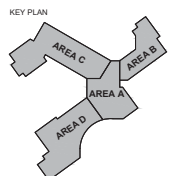
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ROWLETT, TX 75088



SMITHFIELD ELEMENTARY SCHOOL CAMPUS
REPLACEMENT AND THREE HIGH SCHOOL FINE
ARTS AUDITORIUM UPGRADES

OWNER
BIRDVILLE INDEPENDENT SCHOOL DISTRICT
6125 EAST BELKNAP
HALTOM CITY, TX 76117

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SHEET TITLE
PLANTING DETAILS

SHEET NO.

L3.04

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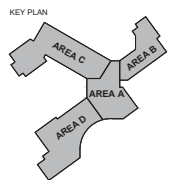
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SMITHFIELD ELEMENTARY SCHOOL CAMPUS
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OWNER
BROOKVILLE INDEPENDENT SCHOOL DISTRICT
6125 EAST BELKNAP
HALTOM CITY, TX 76117

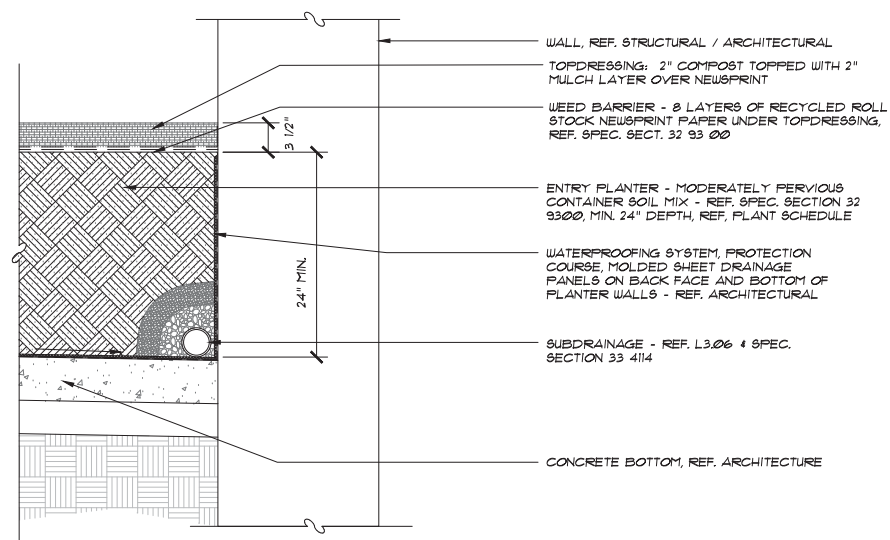
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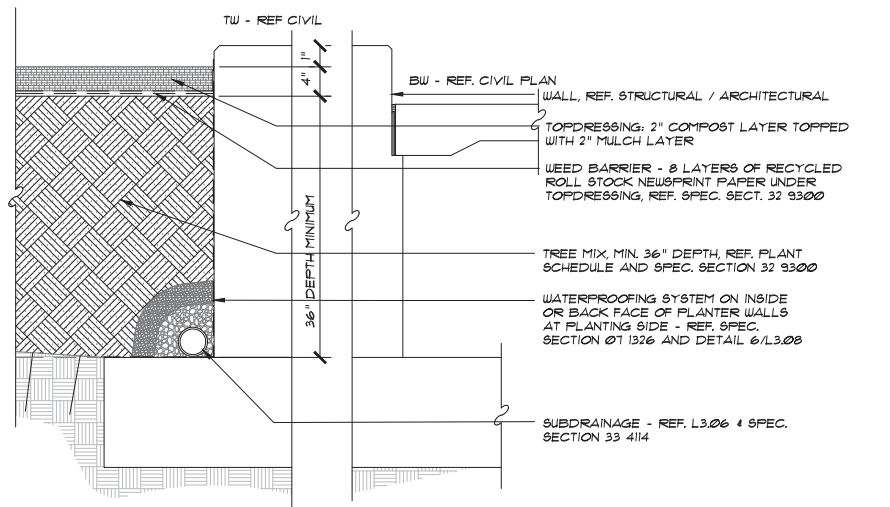
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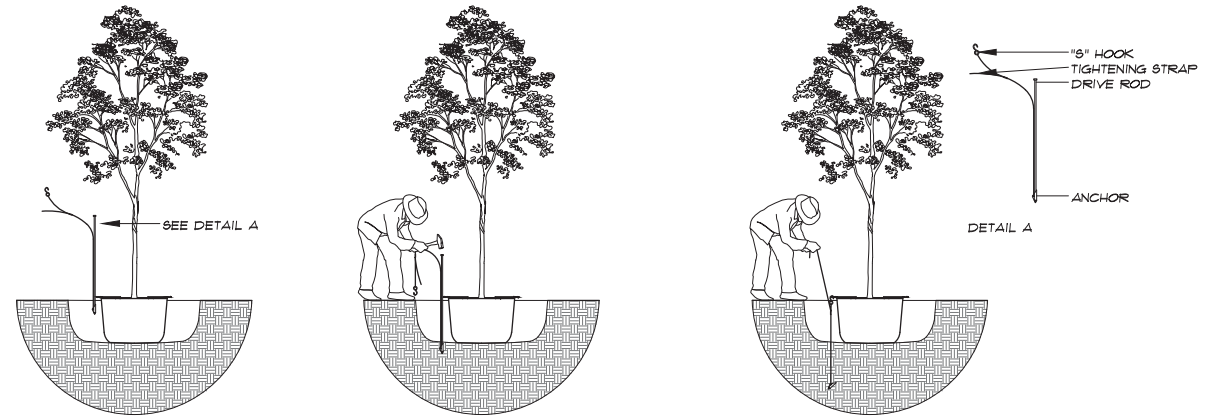
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3 SOIL MIX AT ENTRY PLANTER - SECTION
1" = 1'-0"

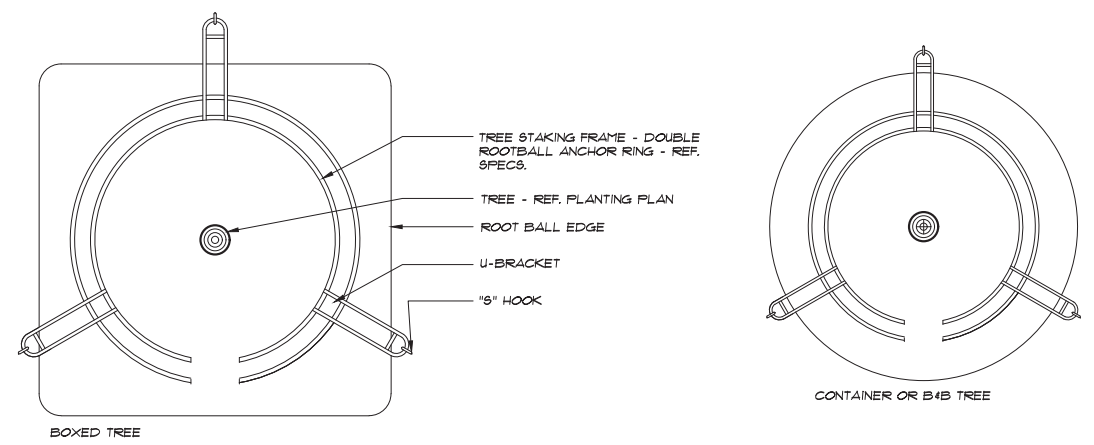


4 SOIL MIX AT PLANTERS AT ENTRY WITH TREE - SECTION
1" = 1'-0"



- STEP 1:**
- SET TREE IN PLANTING PIT
 - CENTER ROOT ANCHOR'S INNER RING(S) AROUND TRUNK OF TREE
 - ALIGN DRIVE ROD AS CLOSE AS POSSIBLE TO OUTSIDE EDGE OF U-BRACKET
- STEP 2:**
- DRIVE ANCHOR STRAIGHT DOWN INTO UNDISTURBED SUBBASE SOIL AT MINIMUM OF 18" TO 24" DEPTH
 - SEE CHART FOR RECOMMENDED DEPTHS PER TREE SIZE
- STEP 3:**
- REMOVE DRIVE ROD
 - REPEAT STEPS 1 & 2 FOR ALL THREE (3) ANCHOR LOCATIONS
 - PULL BACK ON STRAP APPROXIMATELY 3" FOR THE V-68 ANCHOR OR 6" TO 1" FOR THE V-88 ANCHOR TO SET ANCHOR INTO A HORIZONTAL OR LOCKED POSITION. A FULCRUM MAY BE REQUIRED TO ASSIST IN SETTING THE ANCHOR.
 - PLACE 1/2" HOOK OVER THE END OF THE U-BRACKET
 - PULL STRAP UP VERTICALLY UNTIL ROOT ANCHOR RINGS BITE INTO THE TOP OF THE ROOT BALL AND U-BRACKETS ARE SETTING FLUSH ON TOP OF THE ROOT BALL
 - TIE EXCESS STRAP OFF TO THE U-BRACKET ALLOWING ENOUGH REMAINING STRAP TO ADJUST TREE, IF NECESSARY
 - BACK FILL ONLY AFTER THE TREE IS STRAIGHTENED AND SECURE
- OPTIONAL ANCHORING SEQUENCES:**
- A.** FOR ANCHOR INSTALLATION PRIOR TO TREE INSTALLATION - ANCHORS MAY BE PLACED PER THE ROOT BALL DIAMETER, AND INSTALLED FROM THE BOTTOM OF THE EXCAVATED TREE PIT TO ENSURE THE DEPTH OF THE ANCHORS MEET THE REQUIRED 18" TO 24" DEPTH INTO UNDISTURBED SOILS.
- B.** FOR ANCHOR INSTALLATION AFTER THE PLANTING BACKFILL - BE SURE TO MARK THE DRIVE PIN TO THE REQUIRED DEPTH TO ENSURE THAT WORKERS ARE DRIVING THE ANCHOR THE REQUIRED 18" TO 24" DEPTH INTO UNDISTURBED SOILS BELOW THE BOTTOM OF THE EXCAVATED TREE PIT. IMPROPER DEPTH OF ANCHORING WILL BE CORRECTED AS NECESSARY TO ENSURE TREE IS STABLE.

1 TREE ANCHORING
NTS



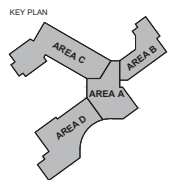
2 TYPICAL TREE GROUND ANCHORING - PLANS
NTS

PLOT DATE: TEMPLATE VERSION:



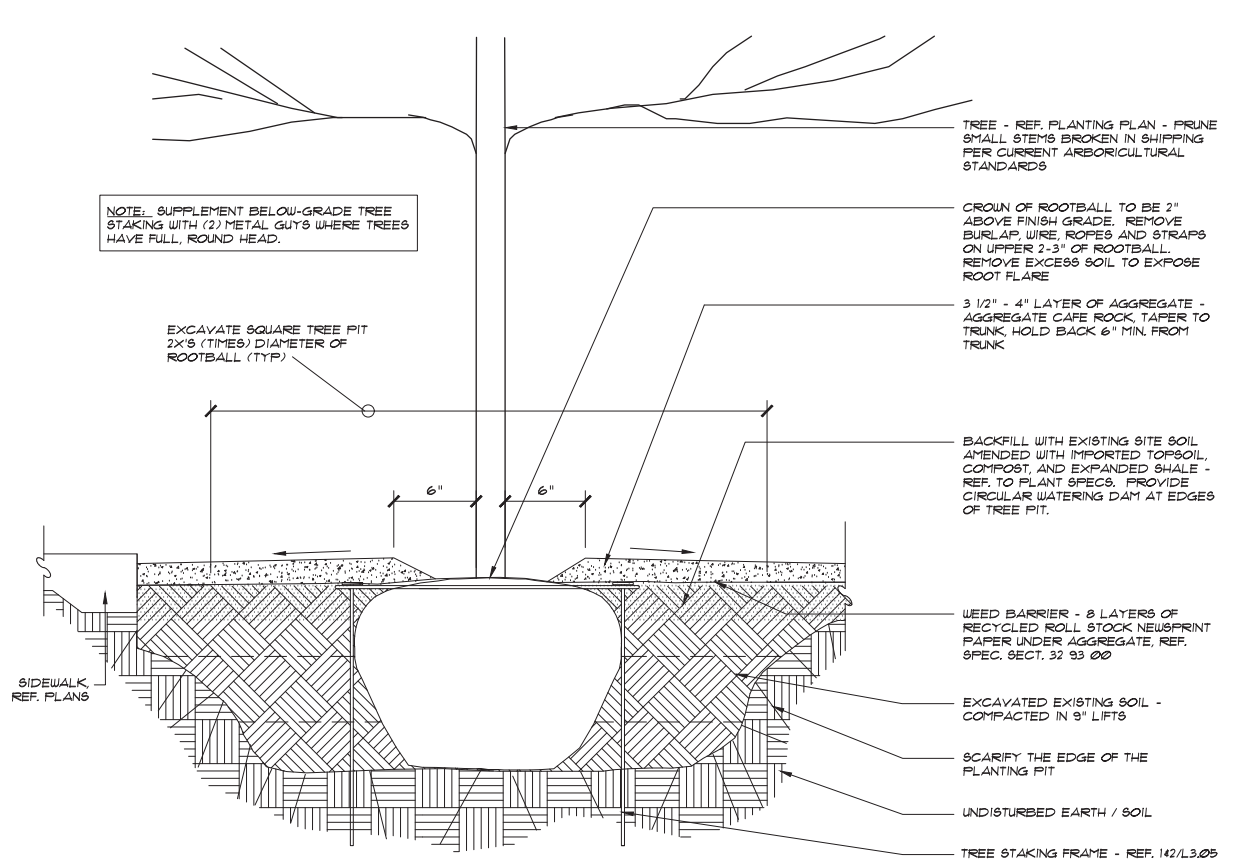
SMITHFIELD ELEMENTARY SCHOOL CAMPUS
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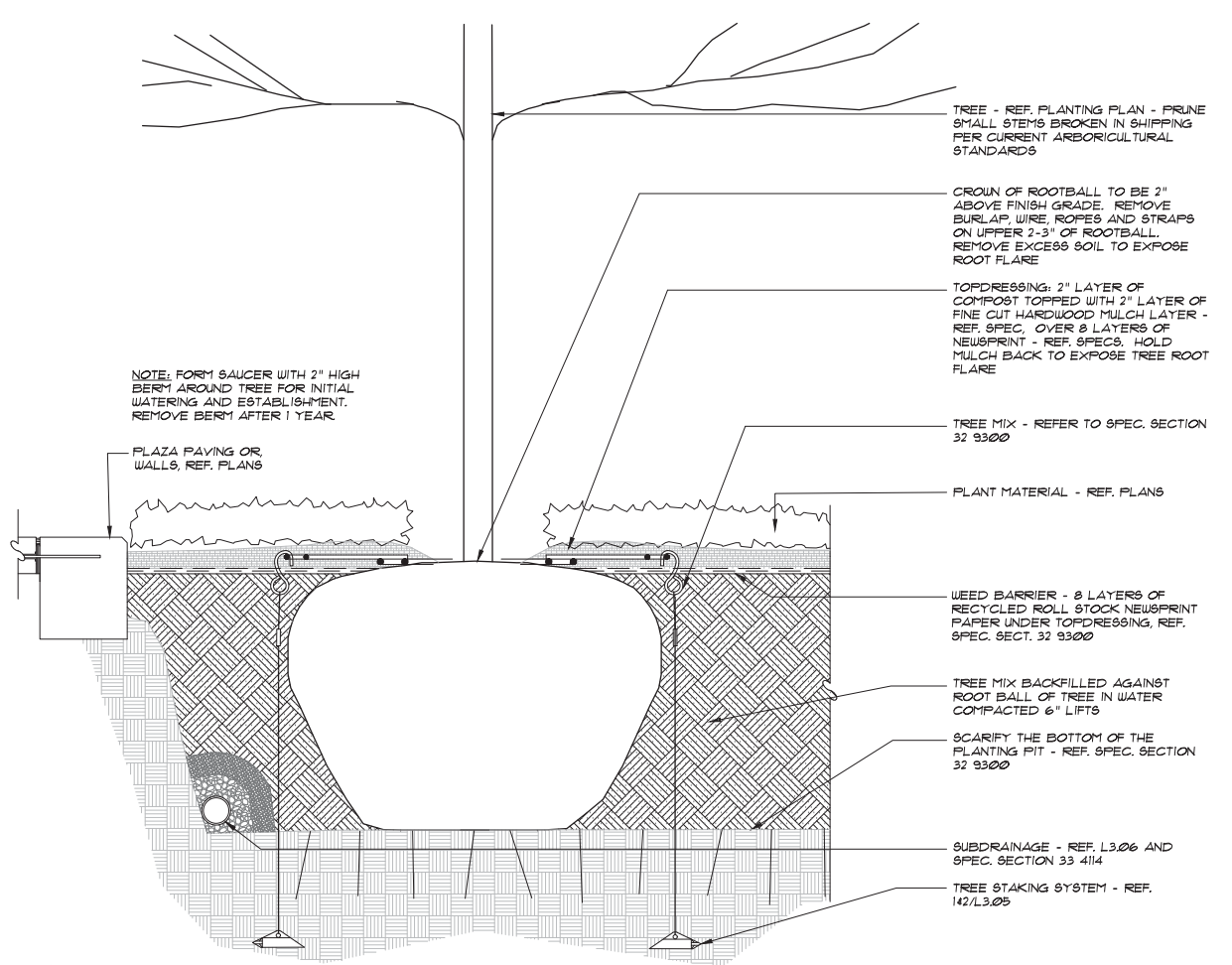


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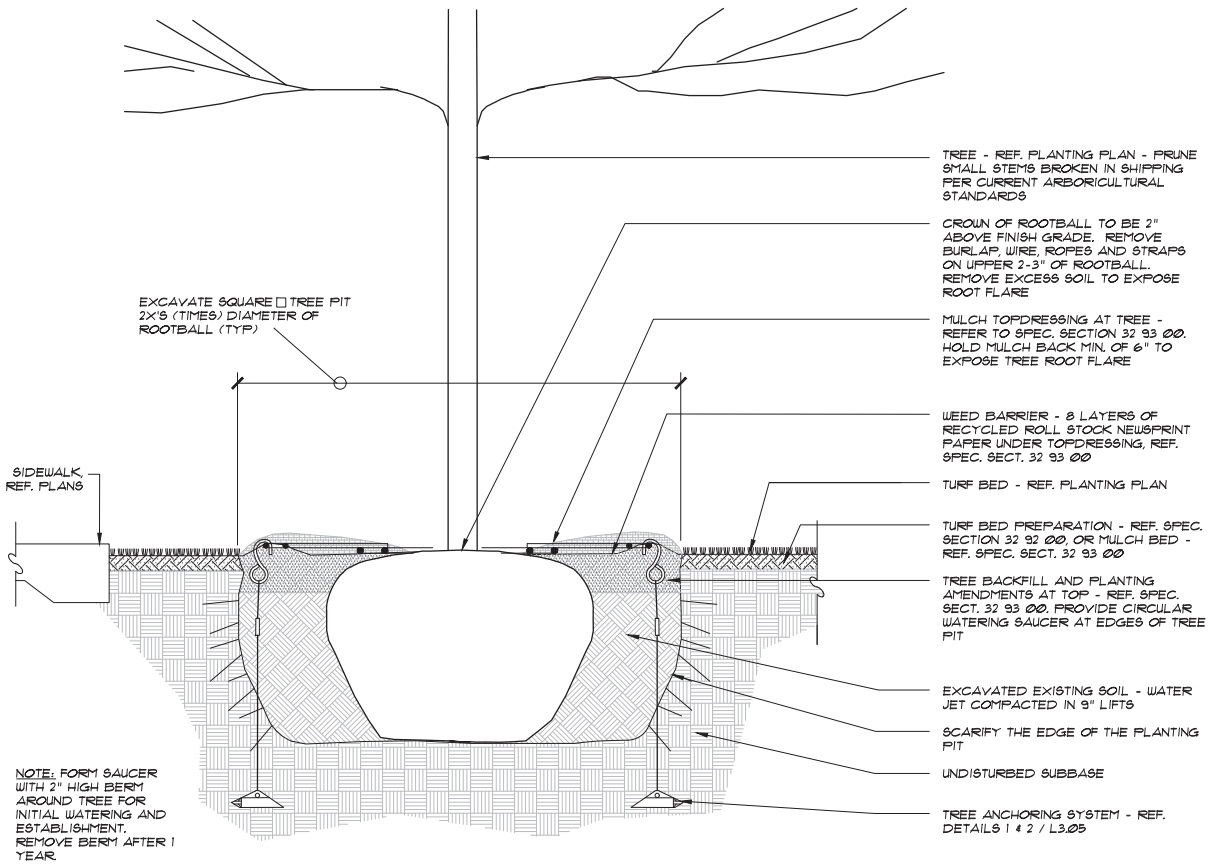
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SP 2019-18
HKS PROJECT NUMBER
22526.000
DATE
18 DECEMBER, 2019
ISSUE
75% CONSTRUCTION DOCUMENTS
SHEET TITLE
PLANTING DETAILS



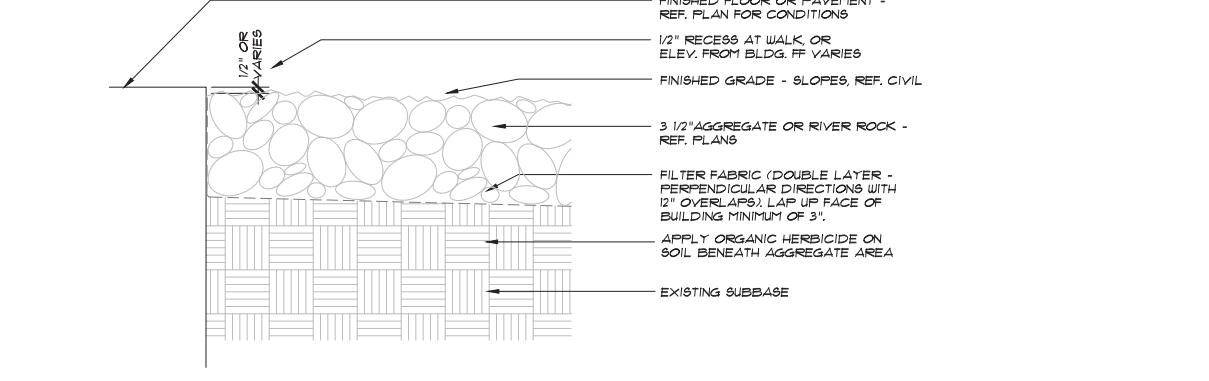
4 SINGLE TREE PLANTING/STAKING IN AGGREGATE - SECTION
NTS



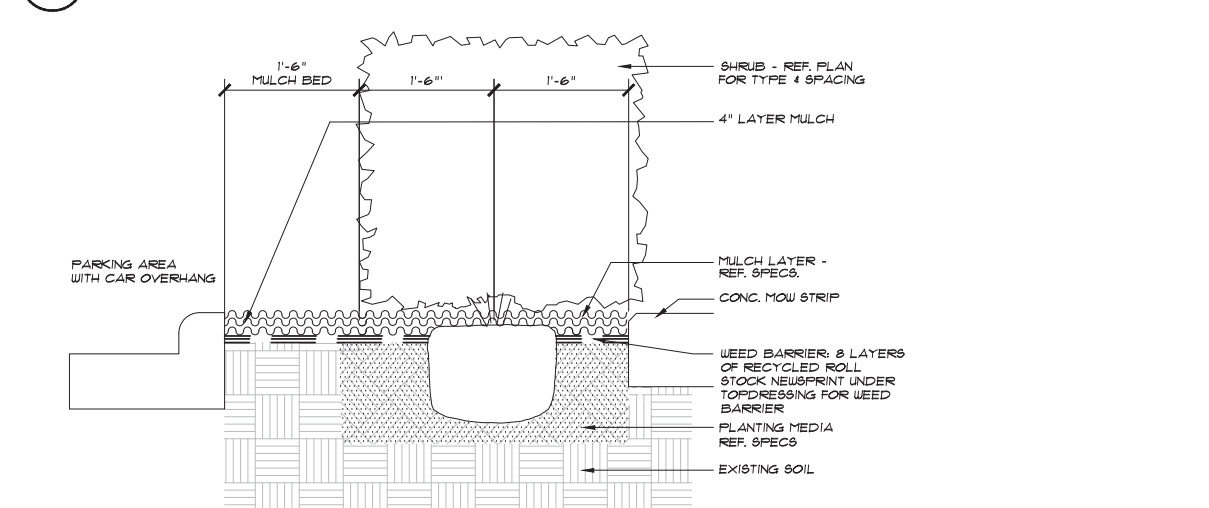
2 SINGLE TRUNK TREE PLANTING/STAKING IN PLANTING - SECTION
NTS



3 SINGLE TRUNK TREE PLANTING/STAKING IN TURF - SECTION
NTS

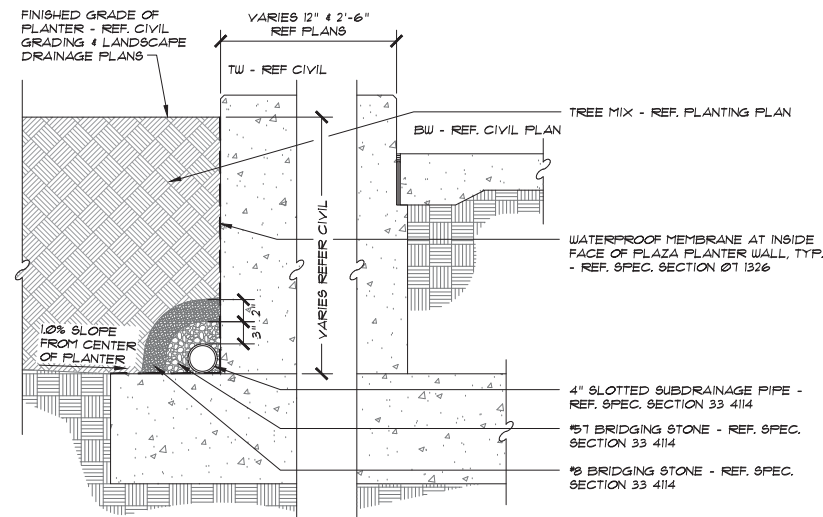


4 AGGREGATE AT BUILDING/PAVING- SECTION
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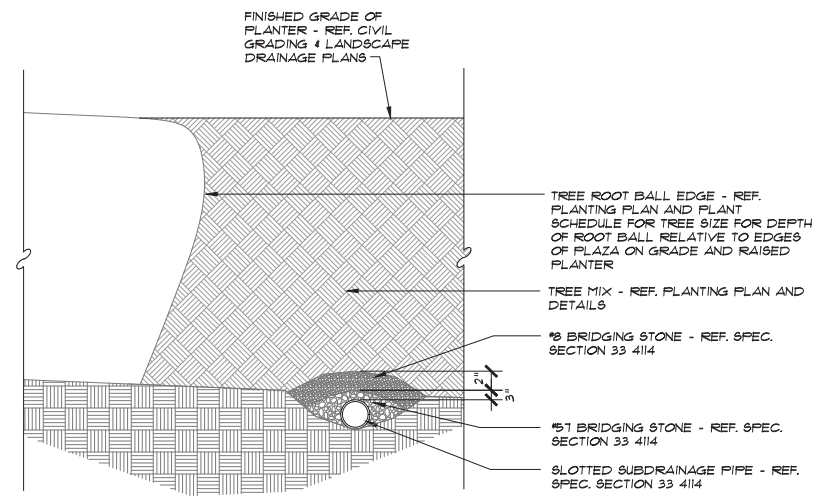


5 SHRUB PLANTING AT PARKING - SECTION
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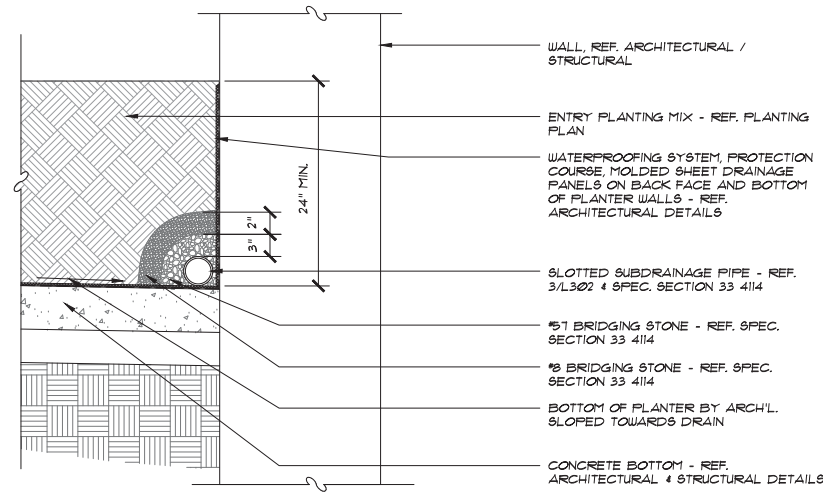
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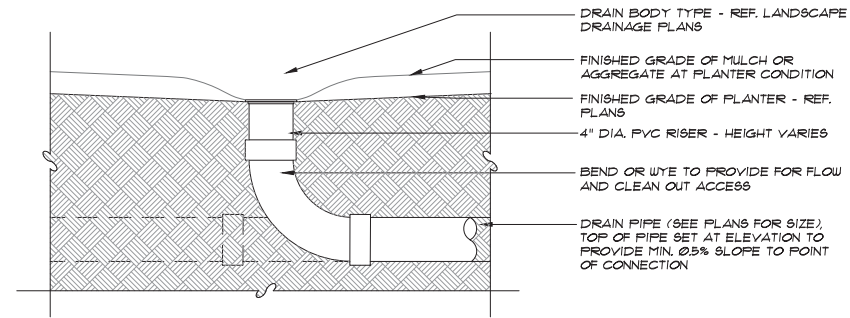
5 UNDERDRAIN SYSTEM AT TREE PLANTER WALL - SECTION
1" = 1'-0"



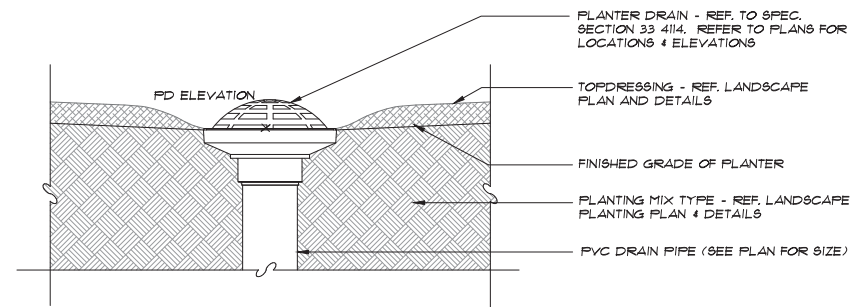
6 UNDERDRAIN SYSTEM AT TREE ROOT BALLS - SECTION
1" = 1'-0"



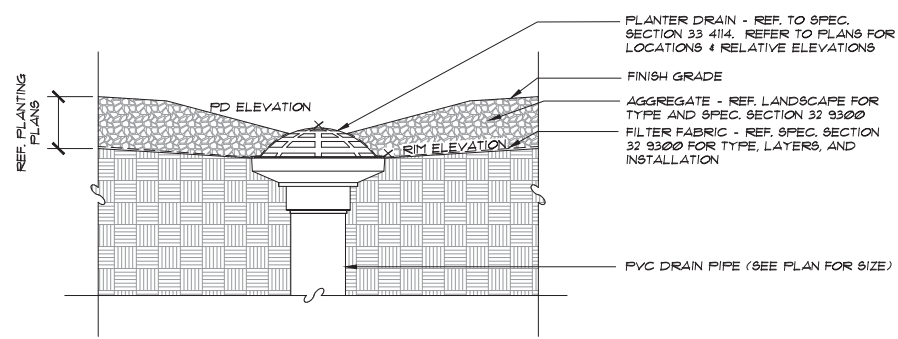
7 UNDERDRAIN SYSTEM AT ENTRY PLANTER - SECTION
1" = 1'-0"



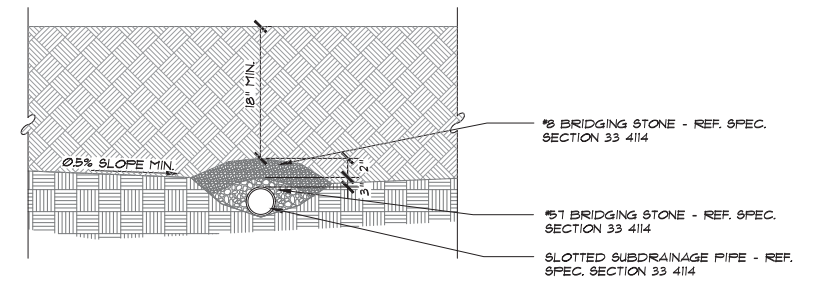
1 TRUNK LINE - SECTION
1" = 1'-0"



2 PLANTER DRAIN IN PLANTER - SECTION
N.T.S.



3 PLANTER DRAIN AT AGGREGATE - SECTION
N.T.S.

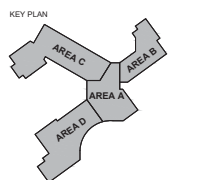


4 UNDERDRAIN SYSTEM IN PLANTER AREA - SECTION
1" = 1'-0"



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