Meeting Agenda

1 Trophy Wood Drive Trophy Club, Texas 76262



Planning & Zoning Commission

Thursday, October 4, 2018	7:00 PM	Council Chambers

CALL TO ORDER AND ANNOUNCE A QUORUM

CITIZEN PRESENTATIONS

Citizens are allowed four (4) minutes to address the Commission regarding an item over which the Commission has policy or oversight authority as provided by Texas law, the ethics order, or other policy order.

REGULAR SESSION

1. <u>2018-469-T</u> Nomination and Election of Vice-Chairman.



2. <u>2018-470-T</u> Case PD-AMD-18-002 (BNHS Addition Ph. 2)

a. Conduct a Public Hearing regarding a request to amend Ordinance No. 2018-13 P&Z, Planned Development District No. 28, in order to provide a site plan package for a proposed building addition at Byron Nelson High School, within the Northwest Independent School District boundaries, on a property containing approximately 93 acres of land and generally located northeast of the intersection of Bobcat Boulevard and Marshall Creek Road, within Trophy Club's town limits.

b. Discussion and recommendation regarding a request to amend Ordinance No. 2018-13 P&Z, Planned Development District No. 28, in order to provide a site plan package for a proposed building addition at Byron Nelson High School, within the Northwest Independent School District boundaries, on a property containing approximately 93 acres of land and generally located northeast of the intersection of Bobcat Boulevard and Marshall Creek Road, within Trophy Club's town limits.

Attachments: PZ Report 10.4.18.pdf

Exhibit A - Legal Description.pdf Exhibit B - Zoning Exhibit.pdf Exhibit C - Existing Development Standards.pdf Exhibit D - Overall Site Plan.pdf Exhibit E - Site Plan Ph 2.pdf Exhibit F - Elevations (Areas A & B).pdf Exhibit G - Elevations (Areas C & K).pdf Exhibit H - Landscape Key Sheet.pdf Exhibit I - Tree Removal Plan.pdf Exhibit J - Entry Plaza Landscape Plan.pdf Exhibit K - Courtyard Landscape Plan.pdf Exhibit L - Building Addition Landscape Plan.pdf Exhibit M - Landscape Details.pdf

Exhibit O - Photometric Plan.pdf

3. <u>2018-472-T</u>

Case O-AMD-17-004 (Artificial Turf)

a. Conduct a Public Hearing regarding a Town-initiated request to amend Landscaping Regulations in Section 14.02.352(d)(5) and Section 14.02.352(g)(5) of the Trophy Club Code of Ordinances to allow artificial turf on residentially zoned properties.

b. Discussion and recommendation regarding a Town-initiated request to amend Landscaping Regulations in Section 14.02.352(d)(5) and Section 14.02.352(g)(5) of the Trophy Club Code of Ordinances to allow artificial turf on residentially zoned properties.

Attachments: PZ Report 10.4.18.pdf

Exhibit A - Surveyed Cities.pdf Exhibit B - Pros and Cons of Artificial Turf vs. Living Matter.pdf

Exhibit C - General Sub-Base Construction.pdf

- <u>2018-475-T</u> Review and approve the minutes of the September 6, 2018 Planning & Zoning Commission meeting.
 <u>Attachments:</u> PZ Minutes 09.6.18 DRAFT.docx
- 5. <u>2018-476-T</u> Town Planner Updates; update on previous cases heard by the Commission; Discussion on current Town development issues and development codes.

ADJOURN

*THE COMMISSION MAY CONVENE INTO EXECUTIVE SESSION TO DISCUSS POSTED ITEMS AS ALLOWED BY THE TEXAS OPEN MEETINGS ACT, TEXAS LOCAL GOVERNMENT CODE 551.071.

Notice is hereby given that a quorum of the Town Council may be in attendance at this meeting.

CERTIFICATION

I certify that the above notice was posted on the bulletin board at Trophy Club Town Hall, 1 Trophy Wood Drive, Trophy Club, Texas, on Friday, September 28, 2018 by 5:00 P.M. in accordance with Chapter 551, Texas Government Code.

Julie Smestad Administrative Specialist

If you plan to attend this public meeting and have a disability that requires special needs, please contact the Town Secretary's Office at 682-237-2900, 48 hours in advance and reasonable accommodations will be made to assist you.

I certify that the attached notice and agenda of items to be considered by this Board was removed by me from the bulletin board at Trophy Club Town Hall, 1 Trophy Wood Drive, Trophy Club, Texas, on the _____ day of _____, 2018.

_____, Title: _____

Town of Trophy Club

Legislation Details (With Text)

File #:	2018-469-T	Version:	1	Name:		
Туре:	Agenda Item			Status:	Regular Session	
File created:	9/26/2018			In control:	Planning & Zoning Commission	
On agenda:	10/4/2018			Final action:		
Title:	Nomination an	d Election o	of Vic	e-Chairman.		
Attachments:						
Date	Ver. Action By			Acti	on	Result

Nomination and Election of Vice-Chairman.

Town of Trophy Club

Legislation Details (With Text)

File #:	2018-470-T	Version: 1	l	Name:					
Туре:	Agenda Item			Status:	Regular Session				
File created:	9/26/2018			In control:	Planning & Zoning Commission				
On agenda:	10/4/2018			Final action:					
Title:	Planned Devel addition at Byro on a property c	onduct a Publ lopment Distri on Nelson Hig containing ap	lic H ict N gh S prox	Hearing regardii No. 28, in order School, within tl kimately 93 acro	ing a request to amend Ordinance No. 2018-13 P&Z, r to provide a site plan package for a proposed building the Northwest Independent School District boundaries, res of land and generally located northeast of the I Creek Road, within Trophy Club's town limits.				
	P&Z, Planned building addition boundaries, on	Development on at Byron N n a property c	t Dis elso onta	strict No. 28, in on High School aining approxim	regarding a request to amend Ordinance No. 2018-13 order to provide a site plan package for a proposed l, within the Northwest Independent School District nately 93 acres of land and generally located northeast arshall Creek Road, within Trophy Club's town limits.				
Attachments:	PZ Report 10.4								
	Exhibit A - Legal Description.pdf								
	Exhibit B - Zoning Exhibit.pdf								
	Exhibit C - Existing Development Standards.pdf								
	<u>Exhibit D - Ove</u>	Exhibit D - Overall Site Plan.pdf							
	Exhibit E - Site	Plan Ph 2.pc	<u>Jf</u>						
	Exhibit F - Elev			& B <u>).pdf</u>					
	Exhibit G - Elev								
	Exhibit H - Lan								
	Exhibit I - Tree								
	Exhibit J - Entr								
	Exhibit K - Cou								
	Exhibit L - Build		_		odf				
	Exhibit M - Lan								
	Exhibit N - Exte								
	Exhibit O - Pho								
Date	Ver. Action By			A	ction Result				

Case PD-AMD-18-002 (BNHS Addition Ph. 2)

a. Conduct a Public Hearing regarding a request to amend Ordinance No. 2018-13 P&Z, Planned Development District No. 28, in order to provide a site plan package for a proposed building addition at Byron Nelson High School, within the Northwest Independent School District boundaries, on a property containing approximately 93 acres of land and generally located northeast of the intersection of Bobcat Boulevard and Marshall Creek Road, within Trophy Club's town limits.

b. Discussion and recommendation regarding a request to amend Ordinance No. 2018-13 P&Z, Planned Development District No. 28, in order to provide a site plan package for a proposed building addition at Byron Nelson High School, within the Northwest Independent School District boundaries, on a property containing approximately 93 acres of land and generally located northeast of the intersection of Bobcat Boulevard and Marshall Creek Road, within

File #: 2018-470-T, Version: 1

Trophy Club's town limits.



1 Trophy Wood Drive, Trophy Club, TX 76262 | 682.237.2900 | info@trophyclub.org | trophyclub.org

To: Planning & Zoning Commission

From: Lisa Payne, Town Planner

- CC: Thomas M. Class Sr., Town Manager Holly Fimbres, Town Secretary/RMO
- Re: Case PD-AMD-18-002 Planning & Zoning Commission Meeting, October 4, 2018

Agenda Item:

Case PD-AMD-18-002 (BNHS Addition Ph 2)

- a. Conduct a Public Hearing regarding a request to amend Ordinance No. 2018-13 P&Z, Planned Development District No. 28, in order to provide a site plan package for a proposed building addition at Byron Nelson High School, within the Northwest Independent School District boundaries, on a property containing approximately 93 acres of land and generally located northeast of the intersection of Bobcat Boulevard and Marshall Creek Road, within Trophy Club's town limits.
- b. Discussion and recommendation regarding a request to amend Ordinance No. 2018-13 P&Z, Planned Development District No. 28, in order to provide a site plan package for a proposed building addition at Byron Nelson High School, within the Northwest Independent School District boundaries, on a property containing approximately 93 acres of land and generally located northeast of the intersection of Bobcat Boulevard and Marshall Creek Road, within Trophy Club's town limits.

Background and Explanation:

Per Section B(5) of PD-28's Development Standards, a site plan package requires approval by Town Council, upon recommendation of the Planning & Zoning Commission, through an amendment to the Planned Development. PD-28 was created by Ordinance No. 2007-11 P&Z, which was amended by Ordinance No. 2007-22 P&Z to adopt a site plan package for Byron Nelson High School (BNHS), which was amended this year by Ordinance No. 2018-13 P&Z to adopt a site plan package for the school's field house. Northwest Independent School District (NISD) and RLK Engineering are requesting to amend the ordinance to provide a site plan package for a proposed building addition and entry plaza.

The three-story building addition will contain 88,592 square feet and be primarily located on the eastern end of the high school (Exhibit E). The existing cul-de-sac will be replaced with a courtyard and the connected parking lot will be reconfigured to allow for the main portion of the building addition. A few small additions are also being added on the east side of the school, as well as minor building infill on the north side. A new brick dumpster enclosure is included to account for the new building area.

The entry plaza is proposed to be a wide pedestrian walkway between the football stadium and the main entrance of the high school. Some parking spaces will be lost with this design, but even with the proposed additions, the property continues to meet the parking requirement and remains over-parked. In addition, new driveways are planned for either side of the entry plaza, which will provide connection into the parking lot from the existing fire lanes.

Tree mitigation is not required for this project because the Town's Code of Ordinances exempts local taxing authorities, such as Northwest ISD, from the requirements of tree protection and removal. The trees to be removed have been chosen due to being located in a geothermal well field or in the path of construction.

The proposal meets the landscape requirements (Exhibit H) by lining the entry plaza and filling the open space north of the football stadium with trees. Canopy and ornamental trees will be installed throughout the courtyard, around the building addition, and along the new parking spaces to the east.

The building addition very nearly meets the masonry requirement of 100% brick, stone, or stucco with only some accent areas of CMU burnished block, glazed terra cotta, and metal panels. The entrance of the high school's café, the Byron Bistro, is highlighted by Bobcat Blue terra cotta on the walls. To help you familiarize with the locations of the different elevations provided on Exhibits F & G, the site plan (Exhibit E) includes arrows with each elevation's assigned number and sheet number.

An exterior lighting plan is included that indicates the fixtures will be the same or similar to the existing fixtures on the property. Light pollution shouldn't be an issue, as the photometric plan displays one (1) footcandle or less across the subject areas.

No revisions to PD-28's Development Standards are proposed.

Financial Considerations:

Not applicable.

Legal Review:

To be reviewed by Town Attorney.

Staff Recommendation:

Staff recommends approval of the site plan package as an amendment to PD Planned Development District No. 28.

Attachments:

- Exhibit A Legal Description
- Exhibit B Zoning Exhibit
- Exhibit C Existing Development Standards
- Exhibit D Overall Site Plan
- Exhibit E Site Plan Ph 2
- Exhibit F Elevations (Areas A & B)
- Exhibit G Elevations (Areas C & K)
- Exhibit H Landscape Key Sheet
- Exhibit I Tree Removal Plan
- Exhibit J Entry Plaza Landscape Plan
- Exhibit K Courtyard Landscape Plan
- Exhibit L Building Addition Landscape Plan
- Exhibit M Landscape Details
- Exhibit N Exterior Electrical Plan
- Exhibit O Photometric Plan

EXHIBIT "A" LEGAL DESCRIPTION

EXHIBIT "A" LEGAL DESCRIPTION

Being 92.655 acres of land located in the T. Calaway Survey, Abstract No. 272, the T. Kelly Survey, Abstract No. 704, and the J. Henry Survey, Abstract No. 529, Denton County, Texas, being the tract of land described in the deeds to Northwest Independent School District (Northwest Independent School District "NWISD"), recorded in Instrument Nos. 2004-52882, 2005-56133, and 2005-56134, Deed Records, Denton County, Texas. Said 92.655 acres of land being more particularly described as follows:

BEGINNING at a 1/2" iron rod stamped "McCullah" found at the most Westerly Northwest corner of said NWISD tract recorded in Instrument No. 2004-52882, being the Northeast corner of Lot 22, Block L, Green Acre Estates, 2nd Section, an addition to Denton County, Texas, according to the plat recorded in Volume B, Page 250, Plat Records, Denton County, Texas;

THENCE N89°32'20"E, along the most Westerly North line of said NWISD tract recorded in Instrument No. 2004-52882 a distance of 363.50 feet to a 60d nail found at the Northwest corner of the Save and Except Tract 1 as described in the deed to NWISD in said Instrument No. 2004-52882;

THENCE S00°27'22"E, along the West line of said Save and Except Tract 1, at a distance of 255.57 feet passing the Southwest corner of said Save and Except Tract 1, also being the most Westerly Northwest corner of a tract of land described in the deed to C Oil Investments, LTD. recorded in Instrument No. 2005-56135, Deed Records, Denton County, Texas, in all a total distance of 295.57 feet to a 1/2" iron rod stamped "Beasley RPLS 4050" set at the Southwest corner of said C Oil Investments, LTD tract;

THENCE along the South, East, and North lines of said C Oil Investments, LTD tract the following courses and distances:

- 1. N89°33'02"E, a distance of 410.61 feet to a 1/2" iron rod stamped "Beasley RPLS 4050" set;
- 2. N00°26'58"W, a distance of 295.62 feet to a 1/2" iron rod stamped "Beasley RPLS 4050" set;
- 3. S89°33'06"W, a distance of 155.00 feet to a 3/8" iron pipe found at the Northwest corner of said C Oil Investments tract, the Northeast corner of said Save and Except Tract I, and the Southeast corner of a tract of land described in the deed to Hunter Ferrell Properties, Inc recorded in Instrument No. 94-75154, Deed Records, Denton County, Texas;

THENCE N00°15'37"W, along the most Northerly West line of said NWISD tract described in Instrument No. 2004-52882, a distance of 157.16 feet to a 1/2" iron rod set at

the Southwest corner of a tract of land described in the deed to C Oil Investments, LTD. recorded in Instrument No. 2003-205035, Deed Records, Denton County, Texas;

THENCE along the South, East, and North line of said C Oil Investments, LTD. tract described in Instrument No. 2003-205035 the following courses and distances:

- 1. N65°51'14"E, a distance of 293.82 feet to a 60d nail found;
- 2. N43°22'38"E, a distance of 110.89 feet to a 60d nail found;
- 3. N45°01'33"W, a distance of 298.00 feet to a 60d nail found;
- 4. S89°29'25"W, a distance of 135.33 feet to a 60d nail found in the most Northerly West line of said NWISD tract described in Instrument No. 2004-52882;

THENCE N00°15'37"W, along the most Northerly West line of said NWISD tract described in Instrument No. 2004-52882, at a distance of 192.98 feet passing a point from which a 5/8" iron rod stamped "Carter & Burgess" bears S89°44'23"W a distance of 0.97 feet for the Northeast corner of said Hunter Ferrell Properties, Inc tract and the Southeast corner of a tract of land described in the deed to Star of Texas Energy Services, Inc recorded in Instrument No. 2004-148911, Deed Records, Denton County, Texas, in all 347.21' to a U.S. Army Corps of Engineers (Corps of Engineers "COE") Monument No. 540-1 found at the most Northerly Northwest corner of said NWISD tract described in Instrument No. 2004-52882;

THENCE along the North and East lines of said NWISD tract described in Instrument No. 2004-52882 the following courses and distances:

- 1. S42°22'19"E, a distance of 408.77 feet to a COE Monument No. 540-2 found;
- 2. S44°17'30"E, a distance of 777.59 feet to a COE Monument No. 540-3 found;
- 3. S58°06'38"W, a distance of 253.93 feet to a COE Monument No. 540-4 found;
- 4. S61°23'43"E, a distance of 642.65 feet to a 1/2" iron rod stamped "McCullah" found;
- 5. S50°12'33"E, a distance of 496.53 feet to a COE Monument No. 540-6 found;
- 6. S15°14'49"W, a distance of 150.59 feet to a COE Monument No. 540-7 found;
- 7. S27°03'58"W, a distance of 402.08 feet to a COE Monument No. 540-8 found;
- N87°09'06"W, a distance of 157.55 feet to a 1/2" iron rod stamped "Beasley RPLS 4050" set;

- 9. S77°19'34"W, a distance of 102.76 feet to a 1/2" iron rod stamped "McCullah" found;
- 10. S41°39'04"W, a distance of 91.39 feet to a 1/2" iron rod stamped "McCullah" found;
- 11. S36°17'12"W, a distance of 52.32 feet to a 1/2" iron rod stamped "McCullah" found;
- 12. S40°50'39"W, a distance of 95.59 feet to a 1/2" iron rod stamped "McCullah" found;
- 13. S08°39'42"W, a distance of 429.68 feet to a 1/2" iron rod stamped "McCullah" found;
- 14. S04°12'41"W, a distance of 306.41 feet to a 1/2" iron rod stamped "McCullah" found;
- 15. S13°00'52"W, a distance of 96.30 feet to a 1/2" iron rod stamped "McCullah" found;
- 16. S19°36'46"W, a distance of 103.70 feet to a 1/2" iron rod stamped "McCullah" found;
- 17. S10°23'52"W, a distance of 125.46 feet to a pk set in Marshall Creek Road for the Southeast corner of said NWISD tract described in Instrument No. 2004-52882;

THENCE with the South line of said NWISD tract described in Instrument No. 2004-52882 and along a line in Marshall Creek Road the following courses and distances:

- 1. Westerly, 138.46 feet along a non tangent curve to the left, having a radius of 1,031.76 feet, a central angle of 07°41'21" and a chord bearing N73°38'58"W, 138.36 feet to a pk set;
- 2. N77°29'39"W, a distance of 909.47 feet to a pk set at the beginning of a non tangent curve;
- 3. Westerly, 350.07 feet along a non tangent curve to the left, having a radius of 2,020.05 feet, a central angle of 09°55'45" and a chord bearing N85°28'47"W, 349.63 feet to an X found for the Southwest corner of said NWISD tract described in Instrument No. 2004-52882;

THENCE N00°06'55"E, along the most Westerly West line of said NWISD tract described in Instrument No. 2004-52882, at a distance of 31.69 feet passing a 3/8" iron rod found at the Southeast corner of Lot 1, Block L, Green Acre Estates, an Addition to Denton County, Texas, according to the plat recorded in Volume 6, Page 6, Plat Records,

Denton County, Texas, in all a distance of 1,426.57 feet to a 3/8" iron rod found at the Northeast corner of Lot 14, Block L, of said Green Acre Estates, also being the Southeast corner of Lot 15, Block L, of said Green Acre Estates, 2nd Section;

THENCE N00°15'50"E, along the East line of said Green Acre Estates, 2nd Section, a distance of 754.75 feet to the point of beginning, containing 92.655 acres of land.

The bearings recited hereon are oriented to NAD 83, Texas North Central Zone.

EXHIBIT "B" ZONING EXHIBIT

Thursday, October 4, 2018

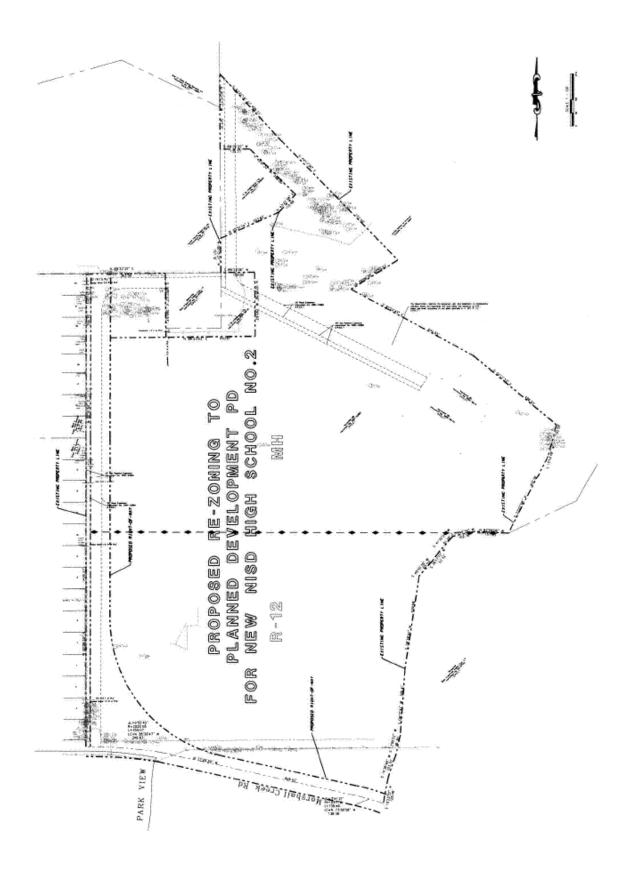


EXHIBIT "C" DEVELOPMENT STANDARDS

DEVELOPMENT STANDARDS NISD HIGH SCHOOL NO. 2 TROPHY CLUB, TEXAS

The development of the Land described in Exhibit "A" – Legal Description (a copy of which is attached hereto and incorporated herein) (hereinafter "Tract 1") consisting of approximately 92.655 acres of land shall be in accordance with Exhibit "B" – Zoning Exhibit of the development (a copy of which is attached hereto and incorporated herein), all other Exhibits attached to or incorporated herein, the Zoning Code, all other applicable codes and regulations of the Town of Trophy Club, and the following Development Standards, conditions and requirements:

- A. <u>Purpose:</u> This Planned Development is designed to accommodate a high school and other appurtenant uses as applicable with a high school site. For development purposes, the land is one contiguous tract. The use and development of the tract shall be in accordance with the Code of Ordinances of the Town, Section 14.02.164 NS – Neighborhood Service District Regulations with the following exceptions:
 - 1. <u>Size of Tract:</u>

Tract 1 shall contain approximately 92.655 acres of land

- 2. <u>Uses Generally:</u> In the development and use of Tract 1, no land shall be used and no building or structure shall be installed, erected, or converted to any use other than the following Permitted Uses:
- 3. <u>Permitted Uses:</u>
 - (a) Tract 1 shall allow all uses indicated in the following Use List.

Athletic Fields, Stadium, Auditorium, Gyms	Bldg for auxiliary uses on HS site
Children's Day Care Center & Kindergarten	Equestrian facilities
Park, Playground, Play lots, Related Facilities	Private Stable
Public Safety Facilities	Recreational
School	Social, Recreational, Assembly Buildings
Storage (auxiliary uses for HS site)	Swimming Pool
Tennis, Handball, Racquet Ball Clubs	Utility Facilities, Garage, Storage

- 4. <u>Limitation of Uses:</u> Except as provided below, any use not expressly permitted herein or allowed by temporary, conditional or specific use permit is prohibited:
 - (a) Sporting Events and any applicable appurtenances shall be granted as a permanent use.
 - (b) Educational or informational displays.

- (c) A temporary use as defined in the Zoning Code shall not be permitted or located nearer than one-hundred feet (100') to a residentially zoned district.
- (d) An accessory use as defined in the Zoning Code shall not be located within any identified easement. In addition, accessory structures permitted in these districts shall not exceed one story in height, except for storage/ utility structures which shall not exceed fifteen feet (15') in height. Utility structures may include lift stations and other operational utility structures required for full functionality of a high school.

5. <u>Area Building and Site Regulations:</u>

The building and site regulations will generally follow Chapter 14 of the Code of Ordinances of the Town, Section 14.02.164 NS – Neighborhood Service District Regulations, with the exception of those items listed below:

- (a) <u>Building Height:</u> No building or structure shall exceed eighty-five feet (85') or three (3) stories in height.
- (b) <u>Lighting:</u> Prior to the issuance of a building permit for the Land or any part thereof, an overall lighting plan, accompanying the Final Site Plan for the Land must be approved by the Town Council upon recommendation of the Planning & Zoning Commission. Additionally, written standards shall be approved by the Town Council upon recommendation of the Planning & Zoning Commission at a later date, in the form of an amendment to this Ordinance.
- (c) <u>Fencing:</u> Chain link fencing may be used for athletic fields only as long as it has 100% vinyl coverage. Black vinyl is an acceptable color. All other colors shall be approved by the Town Council upon recommendation of the Planning & Zoning Commission. Additional fencing shall meet the requirements of Chapter 14, Section 14.02.351 of the Town's Code of Ordinances.
- (d) <u>Outdoor Storage:</u> No outdoor storage, except for refuse disposal, shall be permitted on the land. Dumpster locations shall be subject to the prior approval of the Planning & Zoning Commission, as indicated on the Final Site Plan. Dumpsters are to be enclosed on all sides with three (3) masonry walls and one (1) gate of a similar architectural style of buildings. Minimum height of the enclosures shall be determined by the height of the dumpster.

When possible, landscaping shall provide additional screening for the enclosure. Operating hours for trash service shall be in accordance with the Town of Trophy Club standards.

- (e) <u>Signage:</u> Illuminated LED and Non-Illuminated permanent marquee and monument signage will be allowed at drive approaches, intersections and the front of the building. Prior to the issuance of a building permit for the Land or any part thereof, an overall sign plan, accompanying the Final Site Plan for the Land must be approved by the Town Council upon recommendation of the Planning & Zoning Commission. Additionally, written standards shall be approved by the Town Council upon recommendation of the Planning & Zoning Commission at a later date, in the form of an amendment to this Ordinance.
- (f) <u>Hours of Operation:</u> The hours of operation shall be between 7:00am and 11:00pm for the standard calendar school year and shall be between 7:00am and 6:00pm for the summer session.
- (g) <u>Mechanical & Electrical Equipment:</u> Mechanical and electrical equipment, including air conditioning units, shall be designed and operated to minimize noise impact on surrounding property. All such Equipment shall be screened from public view. Equipment screening shall not be considered as a part of building height.

B. Additional Development Standards:

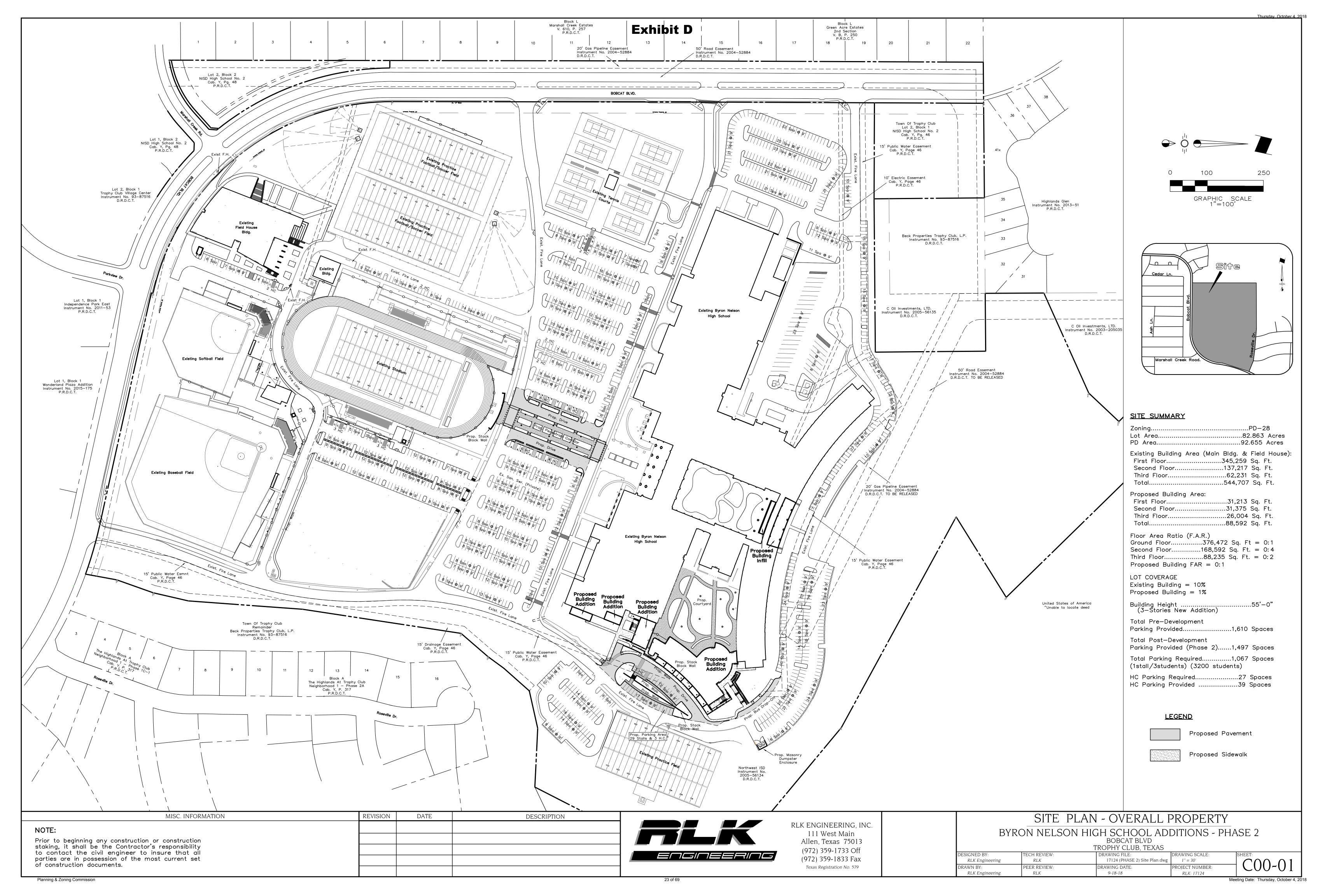
- 1. <u>Landscaping</u>: Landscaping shall be provided as required by applicable codes, including but not limited to the Zoning Code as amended, and Chapter 14, Section 14.02.352 Landscaping Regulations, and the Subdivision Regulations, Chapter 10, except as specifically provided herein below:
 - (a) Interior areas of parking lots shall contain planter islands or berms located so as to best relieve the expanse of paving. Planter islands or berms must be located no further apart than every twenty-four (24) parking spaces and at the terminus of all rows of parking. Such islands or berms shall contain at least one (1) tree. Each tree shall be a minimum of four (4) caliper inches as measured twelve inches (12") above final grade adjacent to the trunk of the tree. The remainder shall be landscaped with shrubs, lawn and ground. Shrubs shall be a minimum of three feet (3') in height when measured immediately after planting, and shall reach three feet (3') in height within one year of planting. Interior planter islands shall have a minimum size of nine feet (9') by eighteen feet (18').

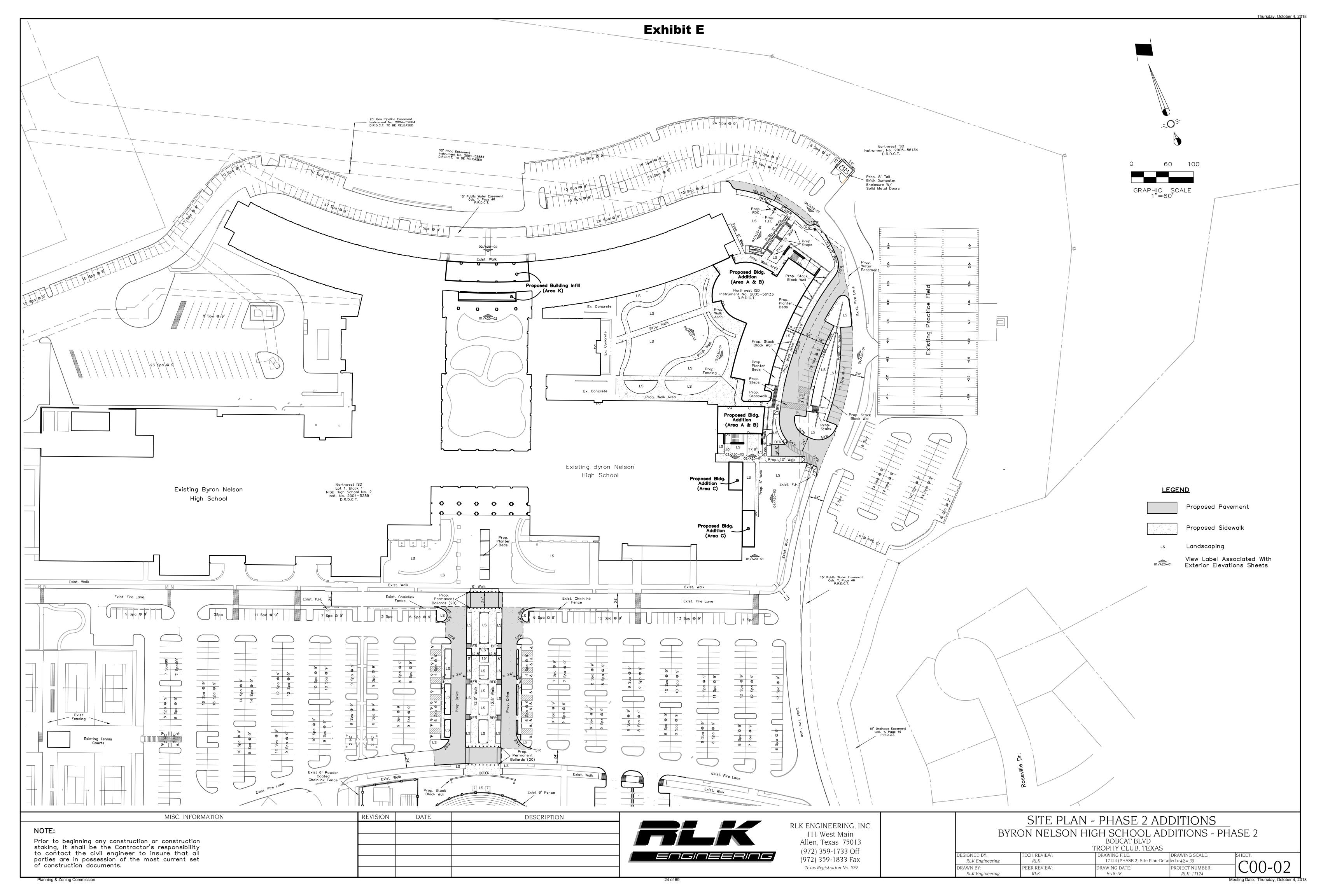
- (i) Perimeter landscape areas shall contain at least one tree for each fifty (50) linear feet or fraction thereof of perimeter area. Shrubs shall meet the requirements of (B)(1)(a) above. Trees shall be planted in non-vehicular open space to meet the following requirements. Existing trees that are preserved on a developed site may be credited to the following requirements:
 Percentage of Site in Non-Vehicular Open spaces: 0-100% Tree Ratio per Non-Vehicular Open Space: 9 trees/ 4,000 sq. ft.
- 2. <u>Fire Lanes:</u> Fire lanes will be shown on the Final Site Plan. Location and details shall be provided at the time of the Final Site Plan submittal and shall be approved by the Fire Department.
- 3. <u>Final Site Plan:</u> The Final Site Plan shall be submitted to the Planning & Zoning Commission and Town Council for approval. Such approval shall be in the form of an ordinance duly adopted by the Town Council, upon recommendation from the Planning & Zoning Commission.

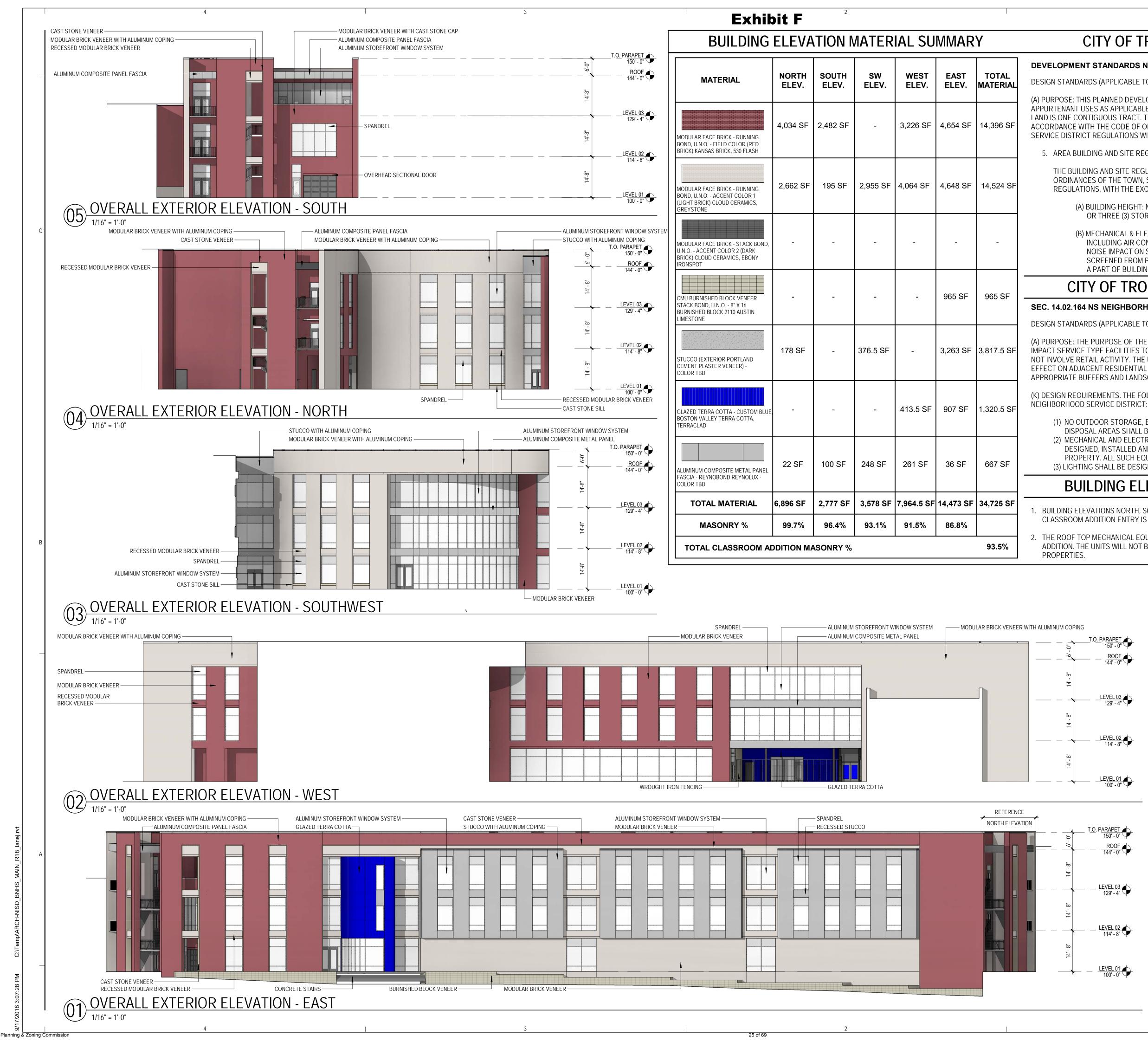
Upon approval, the Final Site Plan shall become an amendment to this Ordinance. In the event of any conflicts between this Ordinance and such approved Final Site Plan, the Ordinance adopting the Approved Final Site Plan shall control.

- 4. <u>Amendments to the Site Plan:</u> Amendments to the Site Plan for items that are not determined to be substantial by the Planning & Zoning Coordinator shall be permitted. The Planning & Zoning Coordinator shall determine items to be classified as not substantial.
- 5. Notwithstanding any contrary provision in the Ordinance or any exhibits hereto, the final approvals listed below must be obtained from the Town prior to the issuance of any building permits. Such approvals must be made by an Ordinance amending this Ordinance creating PD-Planned Development No. 28:
 - (a) Final Site Plan approval, including but not limited to Landscape Plan and Plant List
 - (b) Building Elevations
 - (c) Sight Line Studies
 - (d) Photometric Plan and Light Fixture Illustrations
 - (e) Signage

(f) Retaining Wall and Fencing







	Exhi BUILDING			ЛАТER	IAL SU	MMAR	Y	
O		NORTH ELEV.	SOUTH ELEV.	SW ELEV.	WEST ELEV.	EAST ELEV.	TOTAL MATERIAL	DEVI DESIC
LEVEL 129' -	03	4,034 SF	2,482 SF	-	3,226 SF	4,654 SF	14,396 SF	(A) PU APPU LAND ACCO SERV
	MODULAR FACE BRICK - RUNNING BOND, U.N.O ACCENT COLOR 1 (LIGHT BRICK) CLOUD CERAMICS,	2,662 SF	195 SF	2,955 SF	4,064 SF	4,648 SF	14,524 SF	5.
ALUMINUM STOREFRONT WIND STUCCO WITH ALUMINUM COPI 	IG MODULAR FACE BRICK - STACK BOND U.N.O ACCENT COLOR 2 (DARK BRICK) CLOUD CERAMICS, EBONY	, –	-	-	-	-	-	
ی بر <u>الالالال میں</u> <u>LEVEL 0</u> 129' - 4	CMU BURNISHED BLOCK VENEER	-	-	-	-	965 SF	965 SF	SEC
50 -7 -8 -7 -8 -7 -114'-8 -7 -114'-8	2 STUCCO (EXTERIOR PORTLAND CEMENT PLASTER VENEER) - COLOR TBD	178 SF	-	376.5 SF	-	3,263 SF	3,817.5 SF	(A) PI IMPA NOT EFFE APPF
RECESSED MODULAR BRICK VE CAST STONE SILL		ie	-	-	413.5 SF	907 SF	1,320.5 SF	(K) DI NEIG
POSITE METAL PANEL T.O. PARAPE 150' - 1 _		22 SF	100 SF	248 SF	261 SF	36 SF	667 SF	
		6,896 SF	2,777 SF	3.578 SF	7,964.5 SF	14.473 SF	34,725 SF	
1 29' - <i>i</i>		99.7%	96.4%	93.1%	91.5%	86.8%		1. В С
[™] <u> </u> <u> </u>							93.5%	2. TI Al Pl

14' - 8" 14' - 8" 14' - 8"

CITY OF TROPHY CLUB - BNHS - PD 28

IENT STANDARDS NISD HIGH SCHOOL NO.2 - TROPHY CLUB, TEXAS

IDARDS (APPLICABLE TO THIS PROJECT ONLY)

THIS PLANNED DEVELOPMENT IS DESIGNED TO ACCOMMODATE A HIGH SCHOOL AND OTHER T USES AS APPLICABLE WITH A HIGH SCHOOL SITE. FOR DEVELOPMENT PURPOSES, THE CONTIGUOUS TRACT. THE USE AND DEVELOPMENT OF THE TRACT SHALL BE IN WITH THE CODE OF ORDINANCES OF THE TOWN, SECTION 14.02.164 NS - NEIGHBORHOOD RICT REGULATIONS WITH THE FOLLOWING EXCEPTIONS:

BUILDING AND SITE REGULATIONS:

UILDING AND SITE REGULATIONS WILL GENERALLY FOLLOW CHAPTER 14 OF THE CODE OF ANCES OF THE TOWN, SECTION 14.02.164 NS - NEIGHBORHOOD SERVICE DISTRICT LATIONS, WITH THE EXCEPTION OF THOSE ITEMS LISTED BELOW:

- (A) BUILDING HEIGHT: NO BUILDING OR STRUCTURE SHALL EXCEED EIGHTY- FIVE FEET (85') OR THREE (3) STORIES IN HEIGHT.
- (B) MECHANICAL & ELECTRICAL EQUIPMENT: MECHANICAL AND ELECTRICAL EQUIPMENT, INCLUDING AIR CONDITIONING UNITS, SHALL BE DESIGNED AND OPERATED TO MINIMIZE NOISE IMPACT ON SURROUNDING PROPERTY. ALL SUCH EQUIPMENT SHALL BE SCREENED FROM PUBLIC VIEW. EQUIPMENT SCREENING SHALL NOT BE CONSIDERED AS A PART OF BUILDING HEIGHT.

CITY OF TROPHY CLUB - NS REGULATIONS

164 NS NEIGHBORHOOD SERVICE DISTRICT REGULATIONS

IDARDS (APPLICABLE TO THIS PROJECT ONLY)

THE PURPOSE OF THE NS NEIGHBORHOOD ERVICE DISTRICT IS TO PROVIDE LIMITED LOW /ICE TYPE FACILITIES TO RESIDENTIAL AREAS. SERVICES PERMITTED IN THIS DISTRICT DO ERETAIL ACTIVITY. THE USES ALLOWED IN THESE DISTRICTS SHOULD NOT HAVE AN ADCERSE DJACENT RESIDENTIAL AREAS, AND MAY BE LOCATED CLOSE TO RESIDENTIAL USES, WITH BUFFERS AND LANDSCAPING.

EQUIREMENTS. THE FOLLOWING DESIGN REQUIREMENTS SHALL APPLY IN THE NS OD SERVICE DISTRICT:

OUTDOOR STORAGE, EXCEPT FOR REFUSE DISPOSAL, SHALL BE PERMITTED. REFUSE POSAL AREAS SHALL BE LANDSCAPED AND SCREENED FROM VIEW. CHANICAL AND ELECTRICAL EQUIPMENT, INCLUDING AIR CONDITIONING UNITS, SHALL BE SIGNED, INSTALLED AND OPERATED TO MINIMIZE NOISE IMPACT ON SURROUNDING DPERTY. ALL SUCH EQUIPMENT SAHLL BE SCREEENED FROM PUBLIC VIEW. ITING SHALL BE DESIGNED TO REFLECT AWAY FROM ANY ADJACENT RESIDENTIAL AREA.

UILDING ELEVATION MATERIAL SUMMARY

ELEVATIONS NORTH, SOUTH, EAST AND WEST DO NOT FACE A PUBLIC STREET. THE OOM ADDITION ENTRY IS LOCATEDOFF OF A PRIVATE DRIVE.

TOP MECHANICAL EQUIPMENT IS LOCATED ON THE ROOF OF THE NEW CLASSROOM THE UNITS WILL NOT BE VISIBLE ON ANY POINT OF THE PROPERTY OR ADJACENT

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5646 MILTON STREET SUITE 426 DALLAS, TEXAS 75201 t 469.930.7655 www.glenn-partners.com

CONSULTANTS

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DALLAS, TEXAS 75219 MEF ESTES, MCCLURE & ASSOCIATES, INC. 3608 WEST WAY TYLER, TEXAS 75703

LANDSCAPING SMR LANDSCAPE ARCHITECTS, INC. 1708 NORTH GRIFFIN STREET DALLAS, TEXAS 75202 TECHNOLOGY

MOYE CONSULTING 1255 CORPORATE DRIVE, SUITE 100 IRVING, TEXAS 75038 FOOD SERVICE

COPPELL, TEXAS 75019

JMK FOODSERVICE CONSULTING & DESIGN 3431 LAKEVIEW PARKWAY, SUITE 205 ROWLETT, TEXAS 75088 GENERAL CONTRACTOR NORTHSTAR BUILDERS GROUP 270 NORTH DENTON TAP ROAD, SUITE 250

PROJECT



BYRON NELSON HIGH SCHOOL ADDITION AND RENOVATION 2775 BOBCAT BOULEVARD TROPHY CLUB, TEXAS 76262

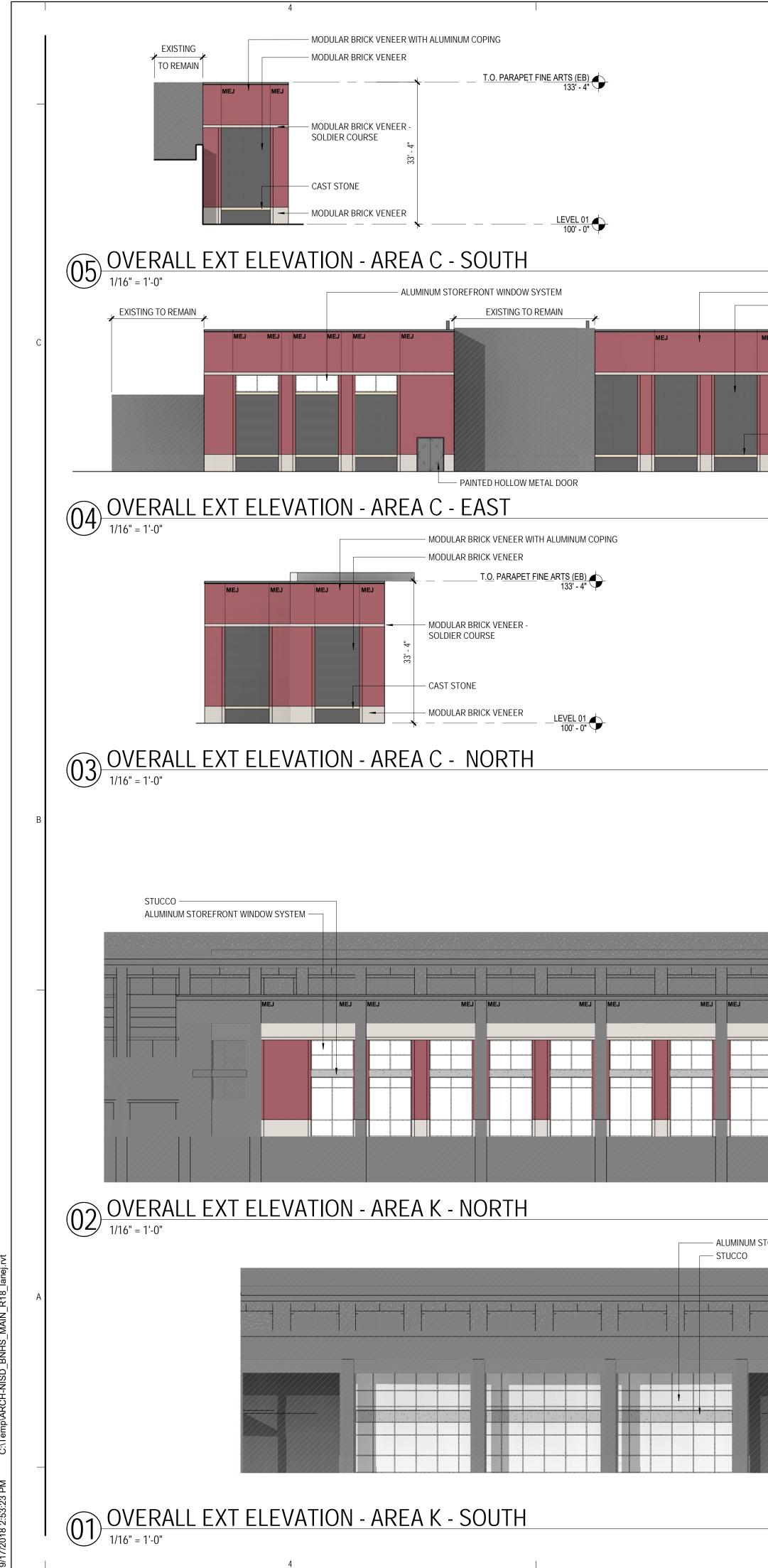
> NORTHWEST ISD 2001 TEXAN DRIVE JUSTIN, TEXAS 76247

Job Number	143117.000
Drawn	JL
Checked	MD
Approved	ML
	TITLE

OVERALL EXTERIOR ELEVATIONS - AREA A & B

SHEET NUMBER





Planning & Zoning Commission

G

	MATERIAL	NORTH ELEVATION	SOUTH ELEVATION	EAST ELEVATION	WEST ELEVATION	TOTAL MATERIAL
	MODULAR FACE BRICK - RUNNING BOND, U.N.O FIELD COLOR (RED BRICK) KANSAS BRICK, 530 FLASH	1,311.5 SF	1,955 SF	363 SF	-	3,629.5 SF
BRICK VENEER WITH ALUMINUM COPING BRICK VENEER	MODULAR FACE BRICK - RUNNING BOND, U.N.O ACCENT COLOR 1 (LIGHT BRICK) CLOUD CERAMICS, GREYSTONE	86 SF	187 SF	34 SF	-	307 SF
T.O. PARAPET FINE ARTS (EB) 133' - 4" CK VENEER - RSE	MODULAR FACE BRICK - STACK BOND, U.N.O ACCENT COLOR 2 (DARK BRICK) CLOUD CERAMICS, EBONY IRONSPOT	471 SF	1,122 SF	261 SF	-	1,854 SF
CK VENEER	CMU BURNISHED BLOCK VENEER STACK BOND, U.N.O 8" X 16 BURNISHED BLOCK 2110 AUSTIN LIMESTONE	-	-	-	-	-
	STUCCO (EXTERIOR PORTLAND CEMENT PLASTER VENEER) - COLOR TBD	-	-	-	-	-
	ALUMINUM COMPOSITE METAL PANEL FASCIA - REYNOBOND REYNOLUX - COLOR TBD	-	-	-	-	-
	TOTAL MATERIAL	1,868.5 SF	3,264 SF	658 SF	-	5,790.5 SF
	MASONRY %	100%	100%	100%	-	
	TOTAL FINE ARTS REN				I	100%

_____T.<u>O. PARAPET (EB)</u> 148' - 0"

LEVEL 03 129' - 4"

LEVEL 02 114' - 8"

LEVEL 01 100' - 0"

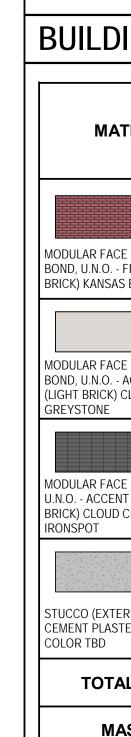
\$ T.O. PARAPET FINE ARTS (EB) 133' - 4"
- MODULAR BRICK VENEER -

	— — — —
- GRAY AREA WITH DIANGONAL HATCH REPRESENTS EXISTING TO REMAIN.	18 ⁻ - 8 ⁻
— MODULAR BRICK VENEER	
– MODULAR BRICK VENEER	14' - 8"
– MODULAR BRICK VENEER	14
	GRADE

OREFRONT WINDOW SYS	ГЕМ

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		18-8"	<u>T.O. PARAPET (EB)</u> 148' - 0"
	— GRAY AREA WITH DIANGONAL HATCH REPRESENTS EXISTING TO REMAIN.	14'-8"	
		14:8"	LEVEL 02 114' - 8"
U. / Netherland		\	LEVEL 01 100' - 0"



TOTA

CITY OF TROPHY CLUB - BNHS - PD 28

MENT STANDARDS NISD HIGH SCHOOL NO.2 - TROPHY CLUB, TEXAS

ANDARDS (APPLICABLE TO THIS PROJECT ONLY)

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CITY OF TROPHY CLUB - NS REGULATIONS

2.164 NS NEIGHBORHOOD SERVICE DISTRICT REGULATIONS

ANDARDS (APPLICABLE TO THIS PROJECT ONLY)

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BUILDING ELEVATION MATERIAL SUMMARY

BUILDING ELEVATIONS NORTH, SOUTH, EAST AND WEST IN AREAS C & K DO NOT FACE A PUBLIC STREET. THE WRESTLING RENOVATION ENTRY AND FINE ARTS RENOVATION ENTRY IS LOCATED OFF OF A PRIVATE DRIVE

2. THE ROOF TOP MECHANICAL EQUIPMENT IS LOCATED ON THE ROOF OF THE NEW CLASSROOM ADDITION. THE UNITS WILL NOT BE VISIBLE ON ANY POINT OF THE PROPERTY OR ADJACENT PROPERTIES.

BUILDING ELEVATION MATERIAL - AREA K - SUMMARY

TERIAL	NORTH ELEVATION	SOUTH ELEVATION	EAST ELEVATION	WEST ELEVATION	TOTAL MATERIAL		
CE BRICK - RUNNING - FIELD COLOR (RED AS BRICK, 530 FLASH	901 SF	-	-	-	901 SF		
CE BRICK - RUNNING - ACCENT COLOR 1 - CLOUD CERAMICS,	648 SF	-	I	-	648 SF		
CE BRICK - STACK BOND, NT COLOR 2 (DARK D CERAMICS, EBONY	133 SF	-	-	-	133 SF		
ERIOR PORTLAND STER VENEER) -	-	207 SF	-	-	-		
AL MATERIAL	1,682 SF	207 SF	-	-	1,889 SF		
ASONRY %	100%	100%	-	-			
L CLASSROOM INFILL MASONRY % 100%							

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f 214.283.8701

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COPPELL, TEXAS 75019

JMK FOODSERVICE CONSULTING & DESIGN 3431 LAKEVIEW PARKWAY, SUITE 205 ROWLETT, TEXAS 75088 GENERAL CONTRACTOR NORTHSTAR BUILDERS GROUP 270 NORTH DENTON TAP ROAD, SUITE 250

PROJECT



BYRON NELSON HIGH SCHOOL ADDITION AND RENOVATION 2775 BOBCAT BOULEVARD TROPHY CLUB, TEXAS 76262

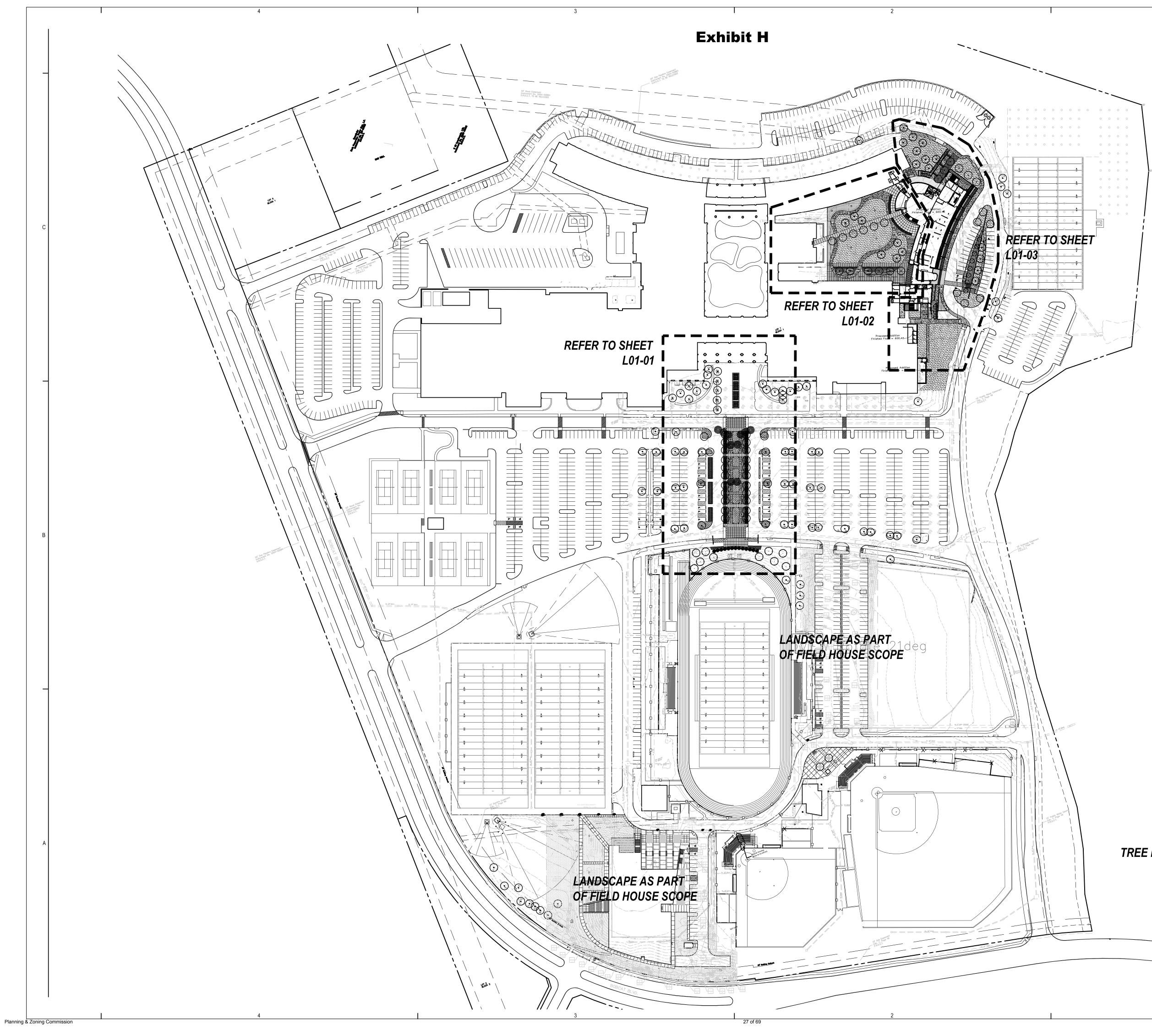
> NORTHWEST ISD 2001 TEXAN DRIVE JUSTIN, TEXAS 76247

Job Number	143117.000
Drawn	JL
Checked	MD
Approved	ML
	TITLE

OVERALL EXTERIOR ELEVATIONS - AREA C &

SHEET NUMBER





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PHASE II SCOPE OF WORK LANDSCAPE TABULATIONS: **BUILDING ADDITION / COURTYARD** PERIMETER LANDSCAPE REQUIREMENTS Requirements: N.A.

NON-VEHICULAR OPEN SPACE: (SITE AREA: 123,167 S.F.) Requirements: 15% of site area to be devoted to landscape with (9) trees, 4" cal. min., 4,000 s.f. of non-vehicular open space.

Required 18,475 s.f. (15%) (42) trees, 4" cal.

Provided 32,497 s.f. (26.3%) (1) existing tree, 4" > (43) trees, 4" cal. (11) ornamental trees, 7'-8' ht.

PARKING LOT (22,051 s.f. / 32 spaces) Requirement: 10% of parking area shall be devoted to landscape area. (1) 4" cal. tree required for each 400 s.f. of required area. Parking lot islands shall be provided every 24 parking spaces and at the end of each row.

Required 2,205 s.f. (10%) (6) trees, 4" cal.

Provided 3,265 s.f. (14.8%) (6) trees, 4" cal.

PHASE II HOUSE SCOPE OF WORK LANDSCAPE TABULATIONS: ENTRY PLAZA

PERIMETER LANDSCAPE REQUIREMENTS Requirements: N.A.

NON-VEHICULAR OPEN SPACE: TOTAL SITE AREA: 71,509 s.f. Requirements: 15% of site area to be devoted to landscape with (9) trees, 4" cal. min., 4,000 s.f. of non-vehicular open space.

Required 10,726 s.f. (15%) (25) trees, 4" cal.

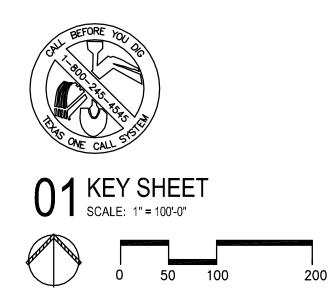
Provided 11,392 s.f. (15.9%) (22) trees, 4" cal. (16) existing trees, 4" > (10) transplant trees (13) evergreen trees, 12' ht.

PARKING LOT (11,051 s.f. / 22 spaces) Requirement: 10% of parking area shall be devoted to landscape area. (1) 4" cal. tree required for each 400 s.f. of required area. Parking lot islands shall be provided every 24 parking spaces and at the end of each row.

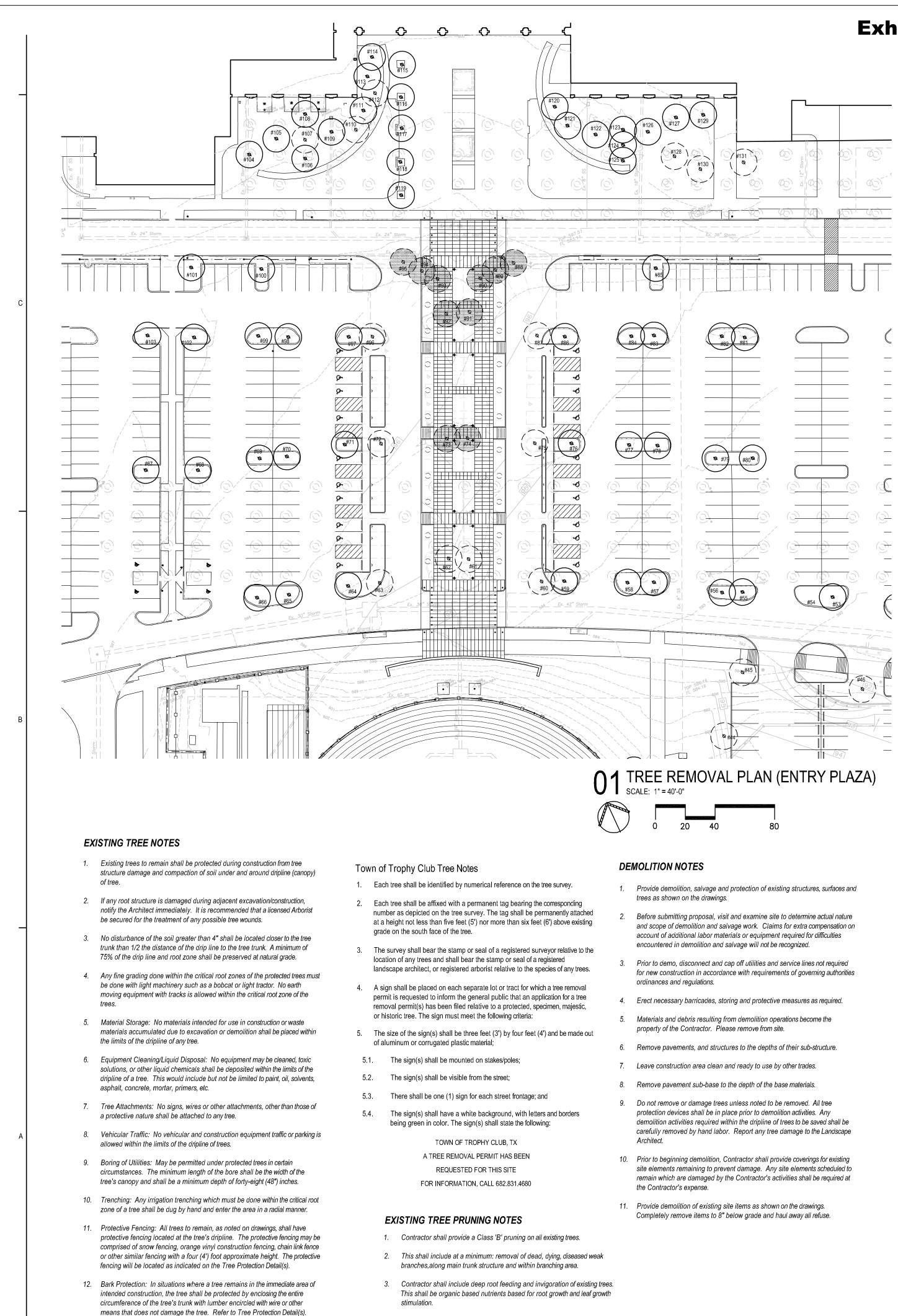
Required 1,105 s.f. (10%) (3) trees, 4" cal.

Provided 1,946 s.f. (17.6%) (9) trees, 4" cal.

TREE REMOVAL SHEET 01 / 02 L00-01



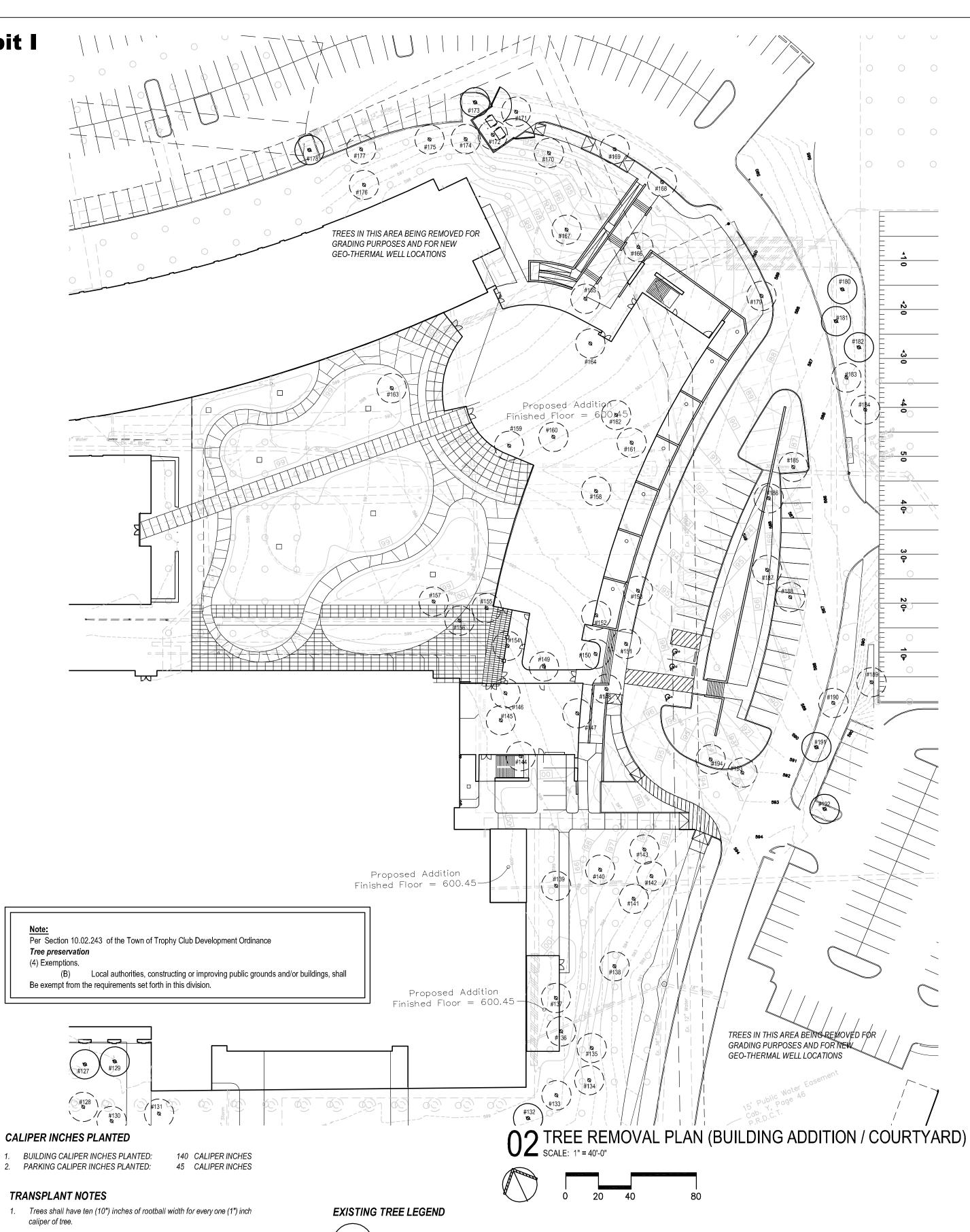
Meeting Date: Thursday, October 4, 2018

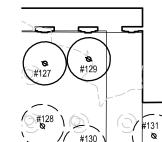


4. Contractor shall be required to chip all removed branches, leafs, etc.

13. Construction Pruning: In a case where a low hanging limb is broken during the course of construction, the Contractor shall obtain the services of a Licensed Arborist for any tree pruning.

Exhibit I





CALIPER INCHES PLANTED

- 1. Trees shall have ten (10") inches of rootball width for every one (1") inch caliper of tree.
- 2. Trees shall have one-fourth (1/4) the height of the tree in rootball depth.
- 3. Trees shall be dug either by hand or by the use of a tree spade. Tree spade shall be a minimum of 60".
- 4. Contractor shall be responsible for maintaining all transplanted trees in the event they are unable to replant them immediately after digging. Contractor shall coordinate with other trades such that digging and replanting can occur simultaneously.
- 5. In the event transplanted trees have to be held on site, it shall be the responsibility of the Contractor to maintain the trees in a healthy and growing condition
- 6. The following list shall be used as guidelines only for holding of trees on site: a. Trees shall be set on grade with the rootball completely covered with compost and mulch. No rootball shall be
- exposed. b. Trees shall be wired and staked such that they will not
- blow over.
- c. Trees shall be watered daily by hand or a temporary drip/trickle irrigation system installed.
- 7. Replanting trees shall follow the same planting techniques as outlined in the Landscape Specifications.

28 of 69

EXISTING TREE TO REMAIN



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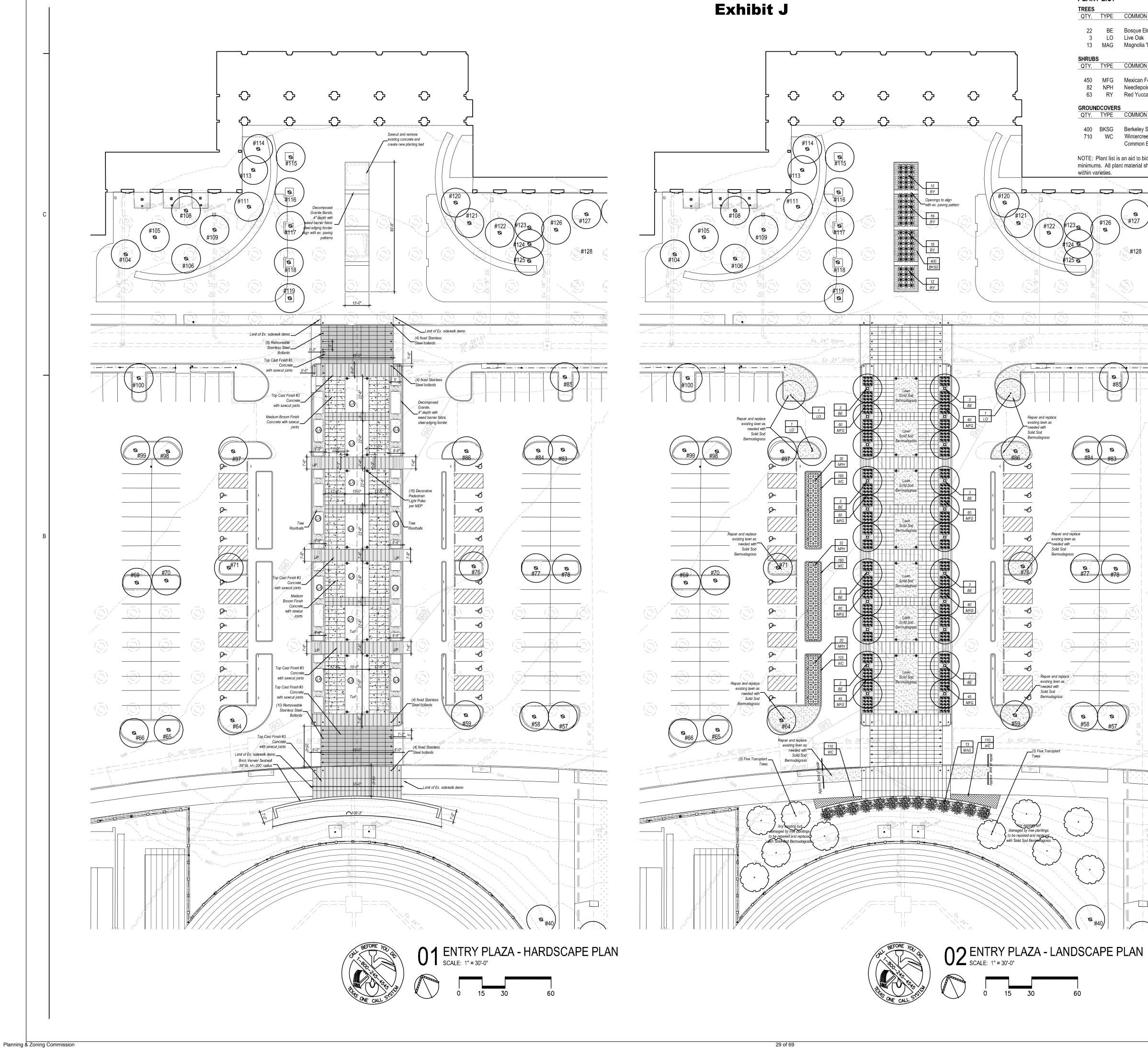
EXISTING TREE TO BE REMOVED



TREE PROTECTION FENCING REFER TO SHEET L01-02 DETAILS 01 THRU 04







Thursday, October 4, 2018

2218 BRYAN STREET

DALLAS, TEXAS 75201

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PLANT LIST

Common Bermudagrass

/PE	COMMON NAME	BOTANICAL NAME	SIZE	REMARKS
BE	Bosque Elm	Ulmus parvifolia 'Bosque'	4" cal.	container grown, 13' ht., 4'-5' spread min
LO	Live Oak	Quercus virginiana	4" cal.	container grown, 15' ht. 5' spread min.
IAG	Magnolia 'DD Blanchard'	Magnolia sp. 'DD Blanchard'	12' ht.	container grown, full to base, matching
/PE	COMMON NAME	BOTANICAL NAME	SIZE	REMARKS
1FG	Mexican Feather Grass	Nasella tennuisima	3 gal.	container, full top of container
IPH	Needlepoint Holly	llex cornuta 'Needlepoint'	5 gal.	container, full plant, 36" o.c.
RY	Red Yucca 'Brakelights'	Hesperaloe parvifolia 'Brakelights'	5 gal.	container, full plant, 36" o.c.
OVERS				
/PE	COMMON NAME	BOTANICAL NAME	SIZE	REMARKS
(SG	Berkeley Sedge	Carex divulsa	4" pots	container, full top of container, 12" o.c.
WC	Wintercreeper	Euonvmus fortunei coloratus	4" pots	container. (3) 12" runners min. 12" o.c.

4" pots container, (3) 12" runners min. 12" o.c. Euonymus fortunei coloratus Cynodon dactylon roll sod solid sod, refer to notes

NOTE: Plant list is an aid to bidders only. Contractor shall verify all quantities on plan. All heights and spreads are minimums. All plant material shall meet or exceed remarks as indicated. All trees to have straight trunks and be matching

#128

- 1. Contractor shall verify all existing and proposed site elements and notify Architect of any discrepancies. Survey data of existing conditions was supplied by others.
- 2. Contractor shall locate all existing underground utilities and notify Architect of any conflicts. Contractor shall exercise caution when working in the vicinity of underground utilities.
- 3. Contractor is responsible for obtaining all required landscape and irrigation permits.
- 4. Contractor to provide a minimum 2% slope away from all structures.
- 5. All planting beds and lawn areas to be separated by steel edging. No steel to be installed adjacent to sidewalks or curbs.
- 6. All landscape areas to be 100% irrigated with an underground automatic irrigation system and shall include rain and freeze sensors.
- 7. All lawn areas to be Solid Sod Bermudagrass, unless otherwise noted on the drawings.

GENERAL LAWN NOTES

- 1. Fine grade areas to achieve final contours indicated on civil plans.
- 2. Adjust contours to achieve positive drainage away from buildings. Provide uniform rounding at top and bottom of slopes and other breaks in grade. Correct irregularities and areas where water may stand.
- 3. All lawn areas to receive solid sod shall be left in a maximum of 1" below final finish grade. Contractor to coordinate operations with on-site Construction Manager.
- 4. Imported topsoil shall be natural, friable soil from the region, known as bottom and soil, free from lumps, clay, toxic substances, roots, debris, vegetation, stones, containing no salt and black to brown in color.
- 5. All lawn areas to be fine graded, irrigation trenches completely settled, and finish grade approved by the Owner's Construction Manager or Architect prior to installation.
- 6. All rocks 3/4" diameter and larger, dirt clods, sticks, concrete spoils, etc. shall be removed prior to placing topsoil and any lawn installation
- 7. Contractor shall provide (1") one inch of imported topsoil on all areas to receive lawn.

SOLID SOD NOTES

- 1. Fine grade areas to achieve final contours indicated. Leave areas to receive topsoil 3" below final desired grade in planting areas and 1" below final grade in turf areas.
- 2. Adjust contours to achieve positive drainage away from buildings. Provide uniform rounding at top and bottom of slopes and other breaks in grade. Correct irregularities and areas where water may stand.
- 3. All lawn areas to receive solid sod shall be left in a maximum of 1" below final finish grade. Contractor to coordinate operations with on-site Construction Manager.
- 4. Contractor to coordinate with on-site Construction Manager for availability of existing topsoil.
- 5. Plant sod by hand to cover indicated area completely. Insure edges of sod are touching. Top dress joints by hand with topsoil to fill voids.
- 6. Roll grass areas to achieve a smooth, even surface, free from unnatural undulations.
- 7. Water sod thoroughly as sod operation progresses.
- 8. Contractor shall maintain all lawn areas until final acceptance. This shall include, but not limited to: mowing, watering, weeding, cultivating, cleaning and replacing dead or bare areas to keep plants in a vigorous, healthy condition.
- 9. Contractor shall guarantee establishment of an acceptable turf area and shall provide replacement from local supply if necessary.
- 10. If installation occurs between September 1 and March 1, all sod areas to be over-seeded with Winter Ryegrass, at a rate of (4) pounds per one thousand (1000) square feet.

IRRIGATION REPAIR SPECIFICATIONS

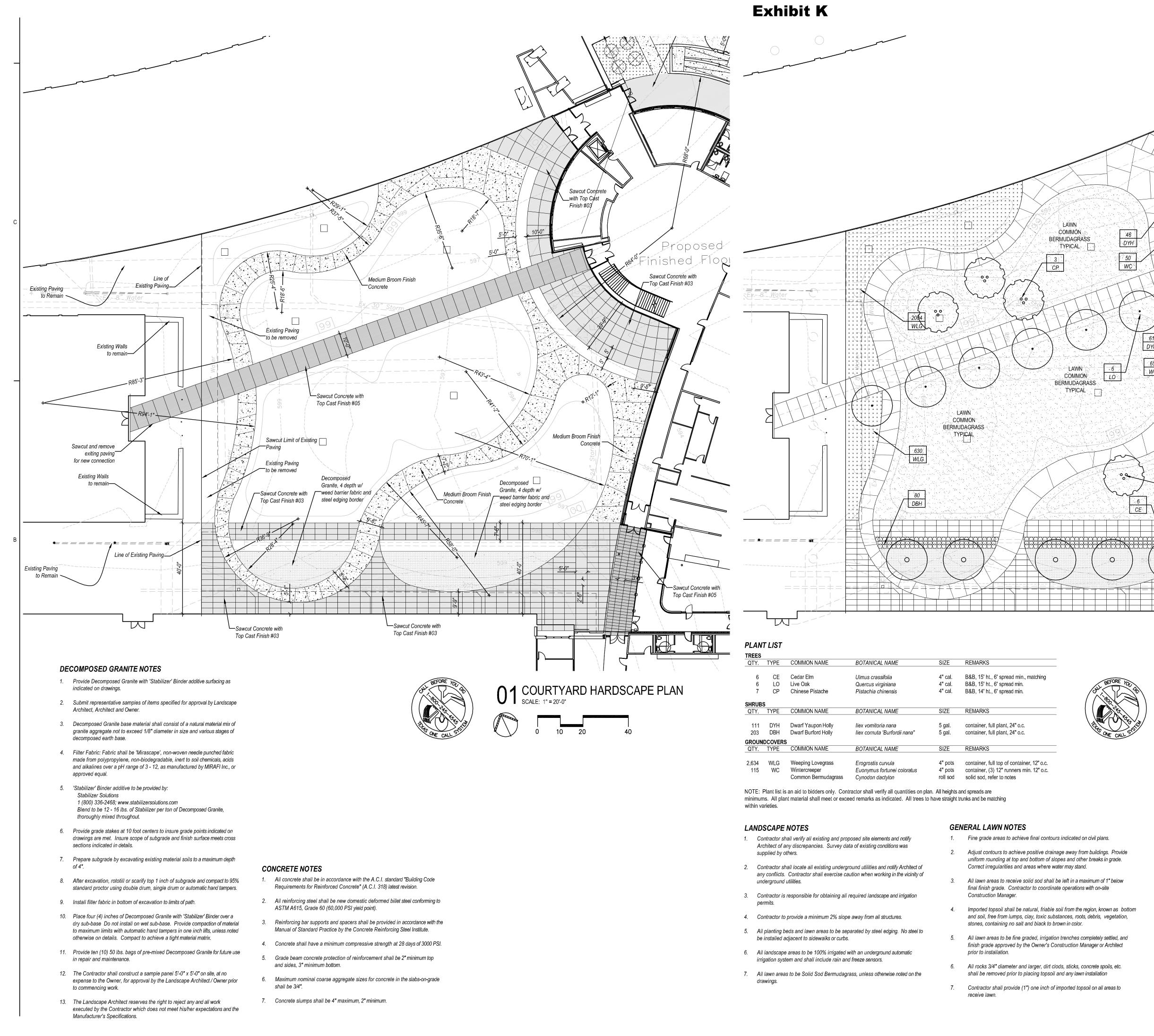
- 1. Contractor shall perform site visit prior to bidding and construction, to review extent of existing irrigation system.
- 2. Contractor shall be responsible for verifying conditions of existing irrigation system. Contractor shall be responsible for maintaining the integrity of existing irrigation where possible, and if not, repair as needed, including but not limited to irrigation controller, meter, sleeving, etc.

LAWN REPAIR NOTES

- 1. All lawn areas damaged during construction to be repaired with solid sod and raked free of debris.
- Adjust damaged areas to achieve positive drainage away from buildings. Provide uniform rounding at top and bottom of slopes and other breaks in grade. Correct irregularities and areas where water may stand.
- 3. All areas to be repaired must be planted by hand to cover area completely. Insure edges of sod are touching. Top dress joints by hand with compost to fill voids.
- 4. Roll repaired areas to achieve a smooth, even surface, free from unnatural undulations.

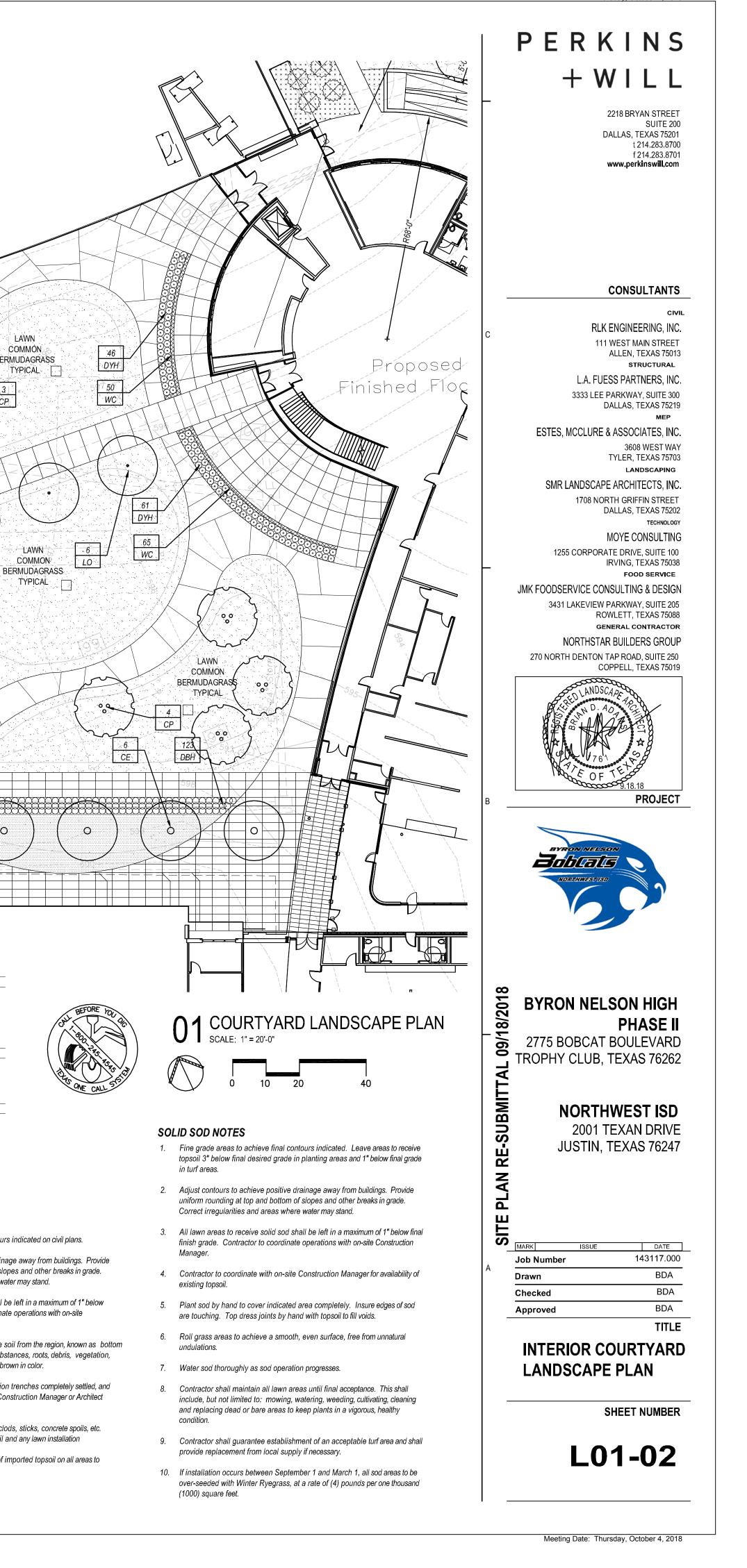
CONSULTANTS
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FOOD SERVICE JMK FOODSERVICE CONSULTING & DESIGN 3431 LAKEVIEW PARKWAY, SUITE 205 ROWLETT, TEXAS 75088 GENERAL CONTRACTOR
NORTHSTAR BUILDERS GROUP 270 NORTH DENTON TAP ROAD, SUITE 250 COPPELL, TEXAS 75019
ANDSCAPE TO AND AD TO AD
PROJECT
BYRONNELSON
MORTHWESTISC
BYRON NELSON HIGH PHASE II 2775 BOBCAT BOULEVARD TROPHY CLUB, TEXAS 76262
NORTHWEST ISD 2001 TEXAN DRIVE
NORTHWEST ISD 2001 TEXAN DRIVE JUSTIN, TEXAS 76247
MARK ISSUE DATE
Job Number143117.000DrawnBDA
CheckedBDAApprovedBDA
TITLE
ENTRY PLAZA LANDSCAPE PLAN
SHEET NUMBER

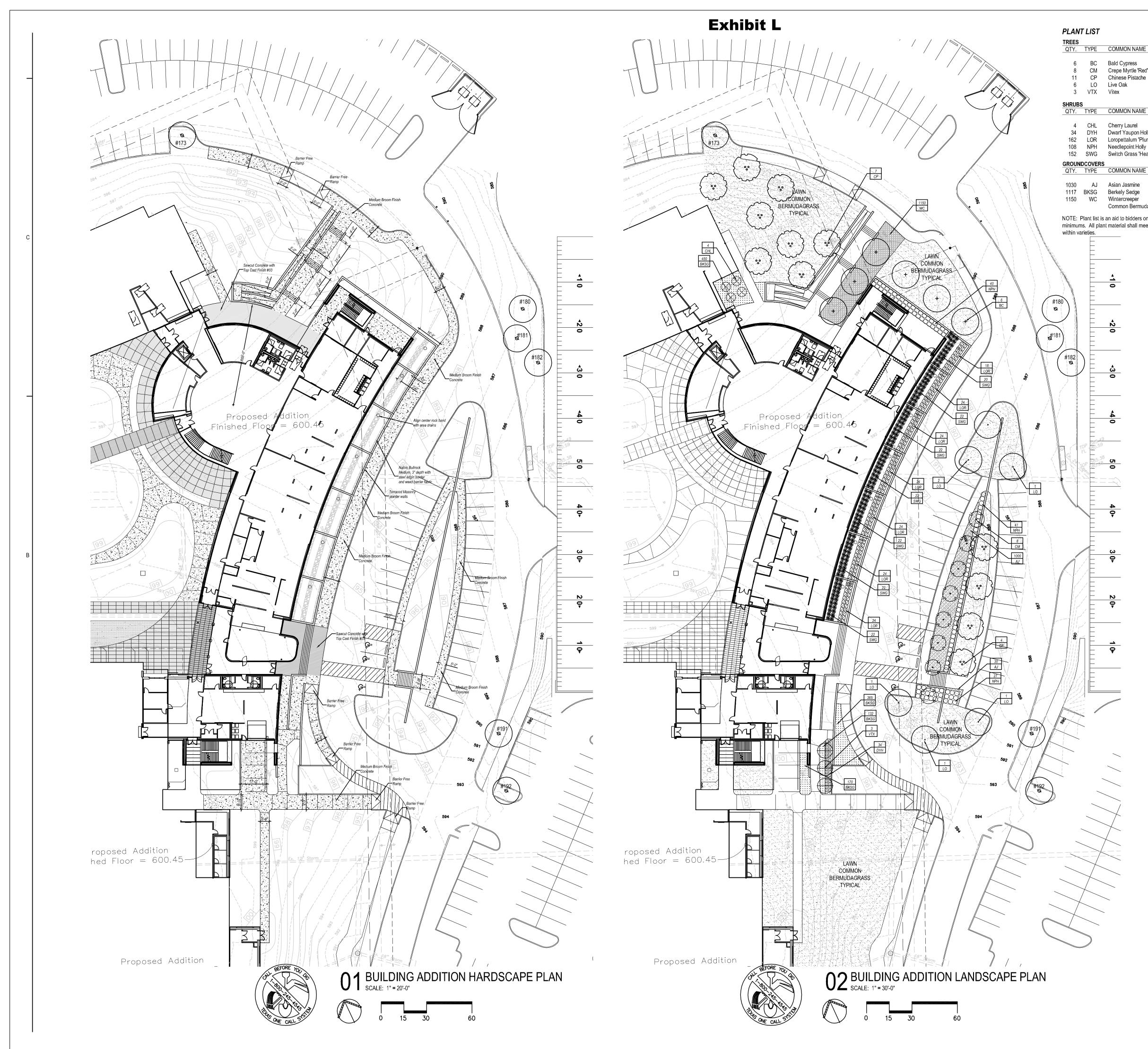




- All lawn areas to receive solid sod shall be left in a maximum of 1" below final finish grade. Contractor to coordinate operations with on-site

Thursday, October 4, 2018

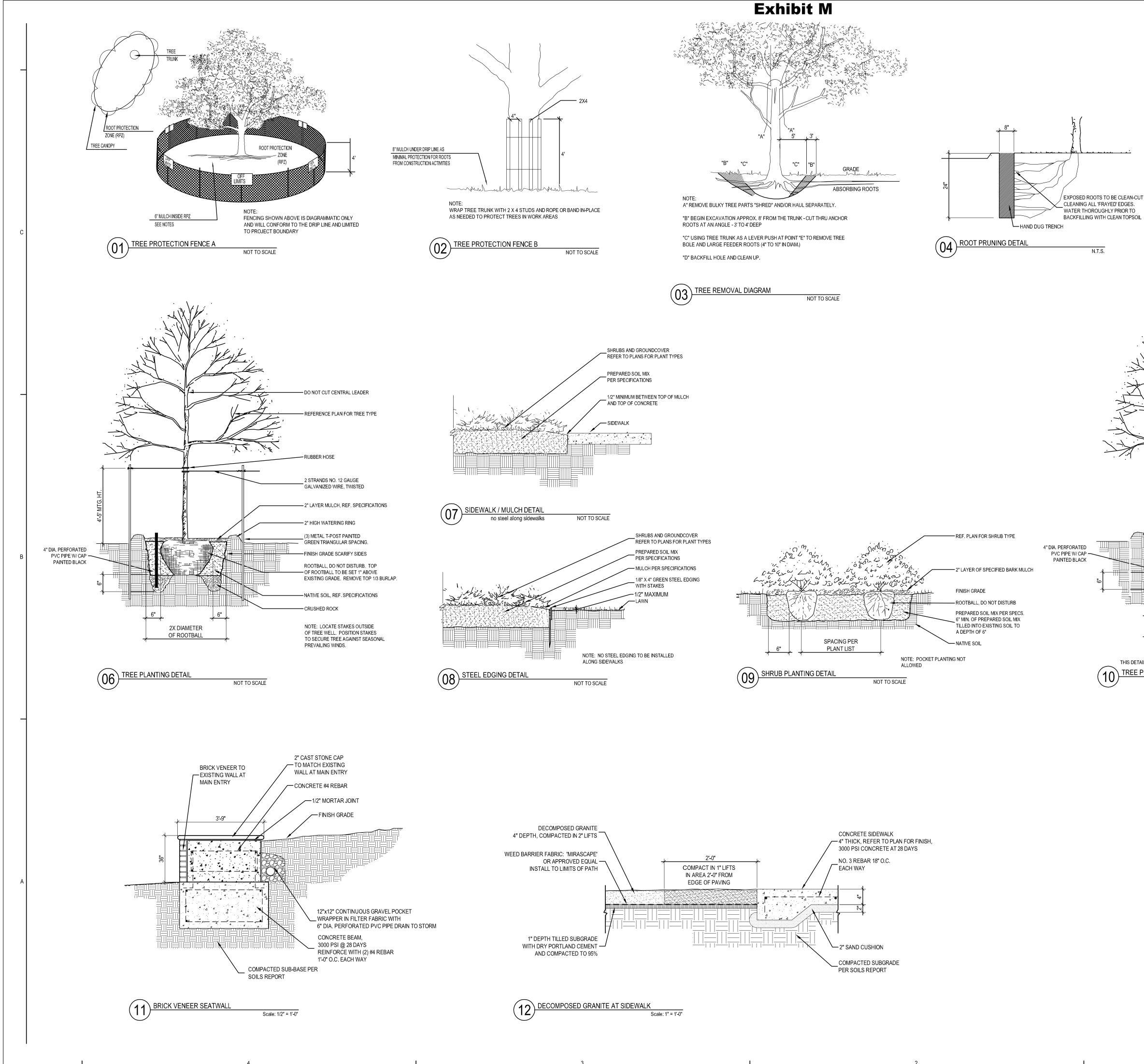




Thursday, October 4, 2018

IT LIST					
TYPE		BOTANICAL NAME	SIZE	REMARKS	+ WILL
BC CM CP LO	Bald Cypress Crepe Myrtle 'Red' Chinese Pistache Live Oak	Taxodium distichum Lagerstroemia indica 'Red' Pistachia chinensis Quercus virginiana	4" cal. 8' ht. 4" cal. 4" cal.	B&B, 15' ht., 6' spread min. container, 3-5 cane, no cross caning B&B, 16' ht. 6' spread min. B&B, 15' ht. 5'-6' spread min.	2218 BRYAN STREET
VTX BS TYPE	Vitex COMMON NAME	Vitex agnes-castus BOTANICAL NAME	7' ht.	container, tree form REMARKS	SUITE 200 DALLAS, TEXAS 75201 t 214.283.8700
CHL DYH LOR NPH SWG	Cherry Laurel Dwarf Yaupon Holly Loropettalum 'Plum Delight' Needlepoint Holly Switch Grass 'Heavy Metal'	Prunus caroliniana Ilex vomitoria nana Loropettalum sp. 'Plum Delight' Ilex cornuta 'Needlepoint' Panicum sp. 'Heavy Metal'	7' ht. 5 gal. 5 gal. 5 gal. 3 gal. 3 gal.	container, full plant, full to base container, full plant, 24" o.c. container, full plant, 30" o.c. container, full plant, 36" o.c. container, full plant, 36" o.c.	f 214.283.8701 www.perkinswill.com
NDCOVERS TYPE	•	BOTANICAL NAME	SIZE	REMARKS	
AJ BKSG WC	Asian Jasmine Berkely Sedge Wintercreeper Common Bermudagrass	Trachelospermaum asiaticum Caex divulsa Euonymus fortunei coloratus Cynodon dactylon	4" pots 4" pots roll sod	container, (3) 12" runners min. 12" o.c. container, full top of container, 12" o.c. container, (3) 12" runners min. 12" o.c. solid sod, refer to notes	
	an aid to bidders only. Conti	ractor shall verify all quantities on plan ed remarks as indicated. All trees to h		and spreads are	
varieties.					C RLK ENGINEERING, INC. 111 WEST MAIN STREET ALLEN, TEXAS 75013 STRUCTURAL
	A	ID SOD NOTES Fine grade areas to achieve final con	tours indicate	ed. Leave areas to receive	L.A. FUESS PARTNERS, INC. 3333 LEE PARKWAY, SUITE 300
		topsoil 3" below final desired grade ir in turf areas.	n planting are	eas and 1" below final grade	DALLAS, TEXAS 75219 MEP ESTES, MCCLURE & ASSOCIATES, INC.
	•	Adjust contours to achieve positive du uniform rounding at top and bottom of Correct irregularities and areas where	f slopes and	other breaks in grade.	3608 WEST WAY TYLER, TEXAS 75703 LANDSCAPING
) <u>E</u>		All lawn areas to receive solid sod sh finish grade. Contractor to coordinate Manager.	e operations	with on-site Construction	SMR LANDSCAPE ARCHITECTS, INC. 1708 NORTH GRIFFIN STREET DALLAS, TEXAS 75202
	4 .	Contractor to coordinate with on-site existing topsoil.	Construction	Manager for availability of	TECHNOLOGY MOYE CONSULTING
		Plant sod by hand to cover indicated are touching. Top dress joints by har			1255 CORPORATE DRIVE, SUITE 100 IRVING, TEXAS 75038 FOOD SERVICE
	•	Roll grass areas to achieve a smooth undulations. Water sod thoroughly as sod operatic			JMK FOODSERVICE CONSULTING & DESIGN 3431 LAKEVIEW PARKWAY, SUITE 205 ROWLETT, TEXAS 75088
TOP 585.49 FL 585.38	U	Contractor shall maintain all lawn are include, but not limited to: mowing, w and replacing dead or bare areas to k	vatering, wee	eding, cultivating, cleaning	GENERAL CONTRACTOR NORTHSTAR BUILDERS GROUP 270 NORTH DENTON TAP ROAD, SUITE 250 COPPELL, TEXAS 75019
	<u>.</u>	condition. Contractor shall guarantee establishr provide replacement from local suppl		•	LANDSCAPE TR
	<u>4</u> 0	If installation occurs between Septerr over-seeded with Winter Ryegrass, a (1000) square feet.			
	GEI	NERAL LAWN NOTES Fine grade areas to achieve final o	contours indi	cated on civil plans.	B PROJECT
	₹ 2.	Adjust contours to achieve positive uniform rounding at top and bottor Correct irregularities and areas wh	n of slopes a	nd other breaks in grade.	BYRONINELSON
	№ 3.	All lawn areas to receive solid soo final finish grade. Contractor to co Construction Manager.			
ń E	4.	Imported topsoil shall be natural, f and soil, free from lumps, clay, tox stones, containing no salt and blac	ric substance	es, roots, debris, vegetation,	
	9 5.	All lawn areas to be fine graded, in finish grade approved by the Own prior to installation.			
	6.	All rocks 3/4" diameter and larger, shall be removed prior to placing t			
	7.	Contractor shall provide (1") one i receive lawn.	nch of import	ted topsoil on all areas to	BYRON NELSON HIGH PHASE II 2775 BOBCAT BOULEVARD TEODUM OF UR TEXAS 76262
	LA 1.	NDSCAPE NOTES Contractor shall verify all existing ar			
		Architect of any discrepancies. Sur- supplied by others.	vey data of e	xisting conditions was	
,	2.	Contractor shall locate all existing u any conflicts. Contractor shall exerc underground utilities.			LineNORTHWEST ISD2001 TEXAN DRIVEJUSTIN, TEXAS 76247
	3.	Contractor is responsible for obtaini permits.	ng all require	ed landscape and irrigation	R I
	4.	Contractor to provide a minimum 2% All planting beds and lawn areas to			PLAN
		be installed adjacent to sidewalks or	curbs.		Ë
	6.	All landscape areas to be 100% irrig irrigation system and shall include ra	ain and freeze	e sensors.	MARK ISSUE DATE Job Number 143117.000
$\left \right\rangle$	7.	All lawn areas to be Solid Sod Berrr drawings.	nudagrass, ui	nless otherwise noted on the	A BDA Checked BDA Approved BDA
					TITLE
					BUILDING ADDITION LANDSCAPE PLAN
					SHEET NUMBER
					L01-03

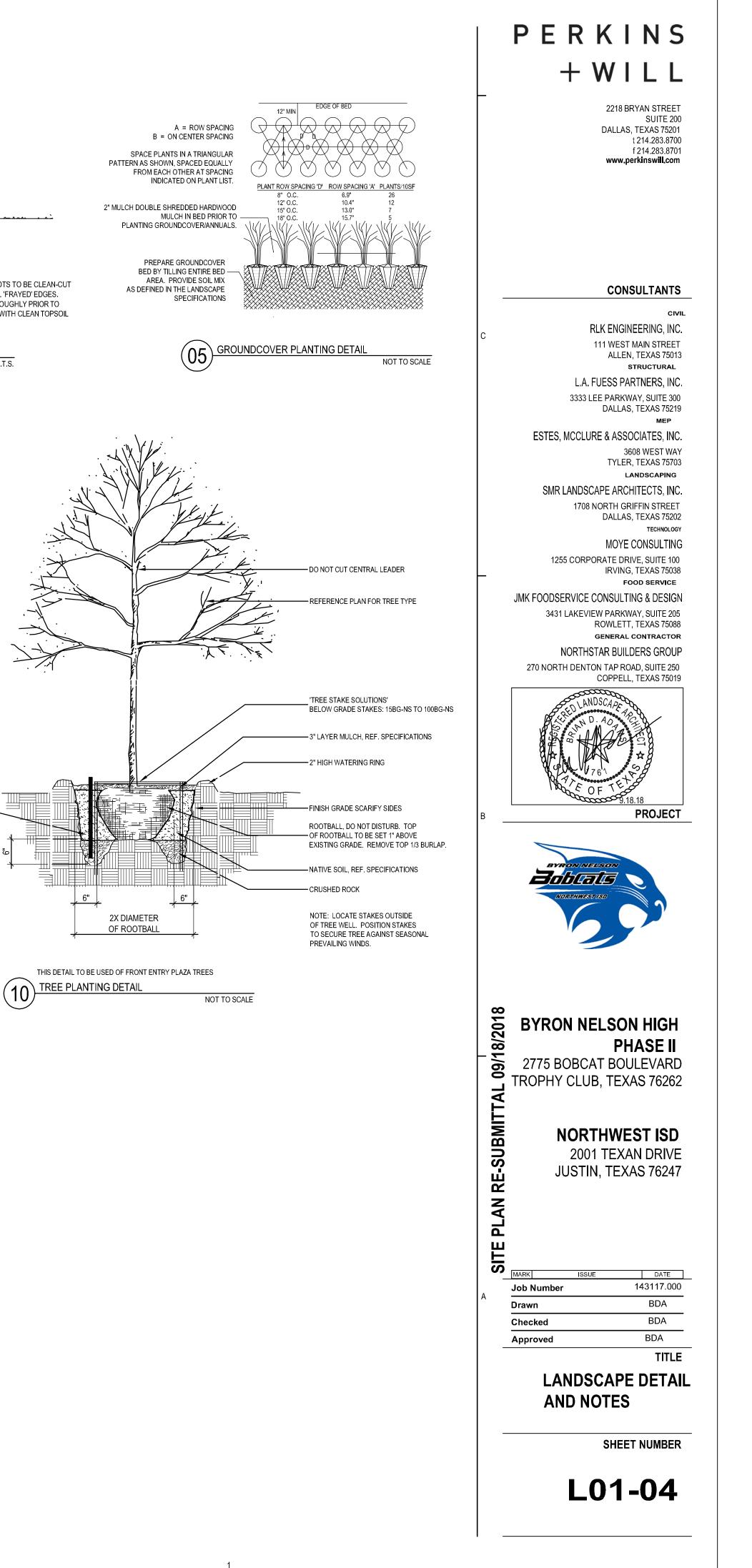
Meeting Date: Thursday, October 4, 2018





Planning & Zoning Commission

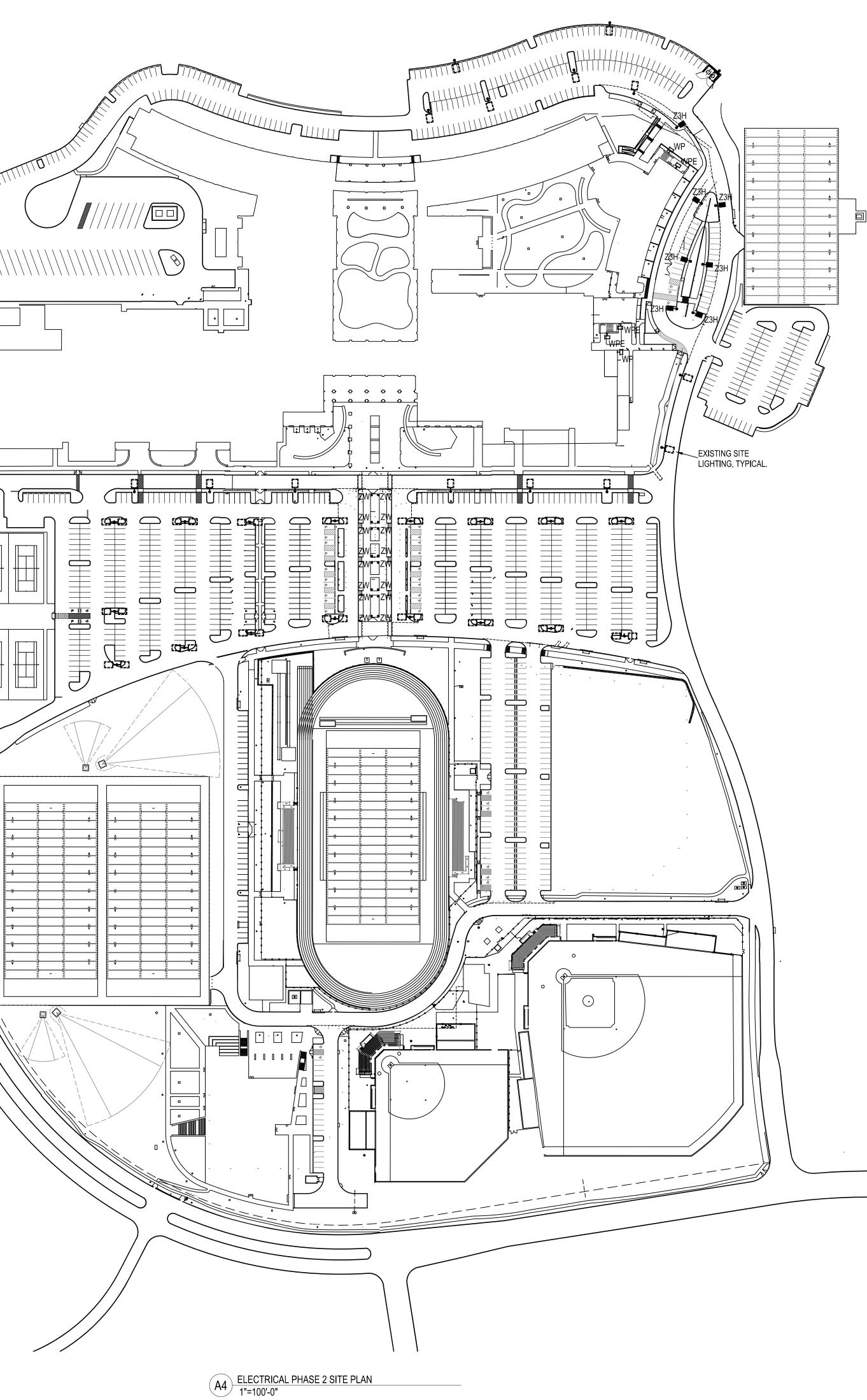
Thursday, October 4, 2018



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		IAIRES ARE SIMILAR TO EXISTING LUMINAIRES. S ARE DARK BRONZE LIKE THE EXISTING POLES.				
		OR Northwest ISD - Byron Nelson Hi			EMA PROJECT# 1 066 0884 001 ts.	
A		PART NUMBERS		DRIVERS	VOLTS MAX VA	
	Z3H POLE MOUNTED HIGH PERFORMANCE LED AREA LIGHT WITH 16021 LAMPS. OPTIONS INCLUDE : , COLOR: BY ARCHITECT	MCGRAW EDISON #GLEON-AF-04-LED-XX-SL3-XX-800-MS/DIM-L40 / HSS / SSS5M30SXN1 / TMP1 / AB1	16021 LUMEN 4100K -INCLUDED	131W DRIVER -INCLUDED	480 131	
	WALL MOUNTED ARCHITECTURAL LED WALL WP PACK WITH 447 LAMPS, OPTIONS INCLUDE : ,	PHILIPS EQUAL GE EQUAL BEGA #22 375-K4 SPAULDING EQUAL DECO EQUAL	447 LUMEN 4100K -INCLUDED	9W DRIVER -INCLUDED	MULTI 9	
1 1	COLOR: BY ARCHITECT	GARDCO EQUAL GE EQUAL BEGA #22 375-K4-EMERGENCY SPAULDING EQUAL				
	WALL MOUNTED EMERGENCY ARCHITECTURAL LED WALL PACK WITH 447 LAMPS. OPTIONS	DECO EQUAL	447 LUMEN 4100K -INCLUDED	9W DRIVER -INCLUDED	MULTI 9	
		GARDCO EQUAL GE EQUAL LUMINIS #EC813-L1W18r1-22W-277V-BZT-FS-PH-PAA412 COLUMBIA EQUAL	447 LUMEN 4100K -INCLUDED	22W DRIVER -INCLUDED	MULTI 22	

Exhibit N

4



33 of 69

ELECTRICAL SITE GENERAL NOTES (SOME NOTES MAY NOT BE USED)

- . CONTRACTORS AND SUBCONTRACTORS SHALL VERIFY LOCATION, CONDUCT TEST AND INSPECTIONS, COORDINATE WITH UTILITIES, OWNER'S REPRESENTATIVES, AND CHECK FOR ALL UNDERGROUND UTILITIES AND LINES BEFORE DITCHING TAKES PLACE. CONTRACTOR AND SUBCONTRACTORS PERFORMING THESE DUTIES SHALL BE RESPONSIBLE FOR ANY REPAIRS OF CUT OR DAMAGED LINES AND UTILITIES NOT SHOWN ON PLANS.
- 2. PROVIDE SEPARATE CONTACTORS FOR INDEPENDENT CONTROL OF THE FOLLOWING: WALL PACKS
 - SOFFIT LIGHTS FLAG POLE LIGHTS

WALKWAY LIGHTS PARKING LOT LIGHTS DESIGNATED AS SECURITY LIGHTS EACH INDIVIDUAL PARKING LOT

ELECTRICAL SITE PLAN NOTES (SOME NOTES MAY NOT BE USED)

- (C1) EXISTING UTILITY TRANSFORMER TO BE REMOVED AND REPLACED. COORDINATE WITH UTILITY PROVIDER FOR MORE INFORMATION.
- (C2) PROVIDE AND ROUTE UNDERGROUND SERVICE CONDUCTORS FROM UTILITY TRANSFORMER LOAD SIDE TO PANEL ADP. REFER TO RISER DIAGRAM FOR MORE INFORMATION.
- © PROVIDE AND ROUTE UNDERGROUND CONDUCTORS FROM GENERATOR TO ATS LOCATED IN SHELTER CONTROL ROOM A140. REFER TO RISER DIAGRAM FOR MORE INFORMATION.
- (C4) BORE UNDER OR SAW-CUT. PATCH TO MATCH EXISTING.
- (C5) GENERATOR TO BE ORIENTED WITH RADIATOR FACING PLAN WEST.
- © OUTLET TO BE INSTALLED 18" A.F.F. INSIDE OF ENCLOSURE THAT HOUSES GENERATOR.



JAMES M. TATE III TEXAS P.E. 102427 Sep 18, 2018

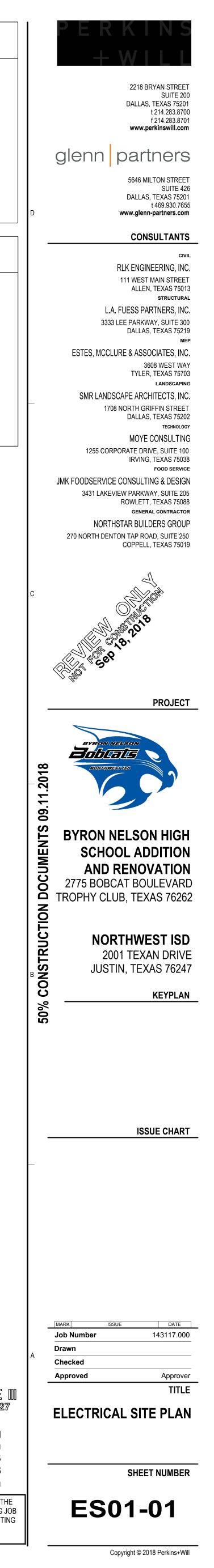


EMA Engineering and Consulting

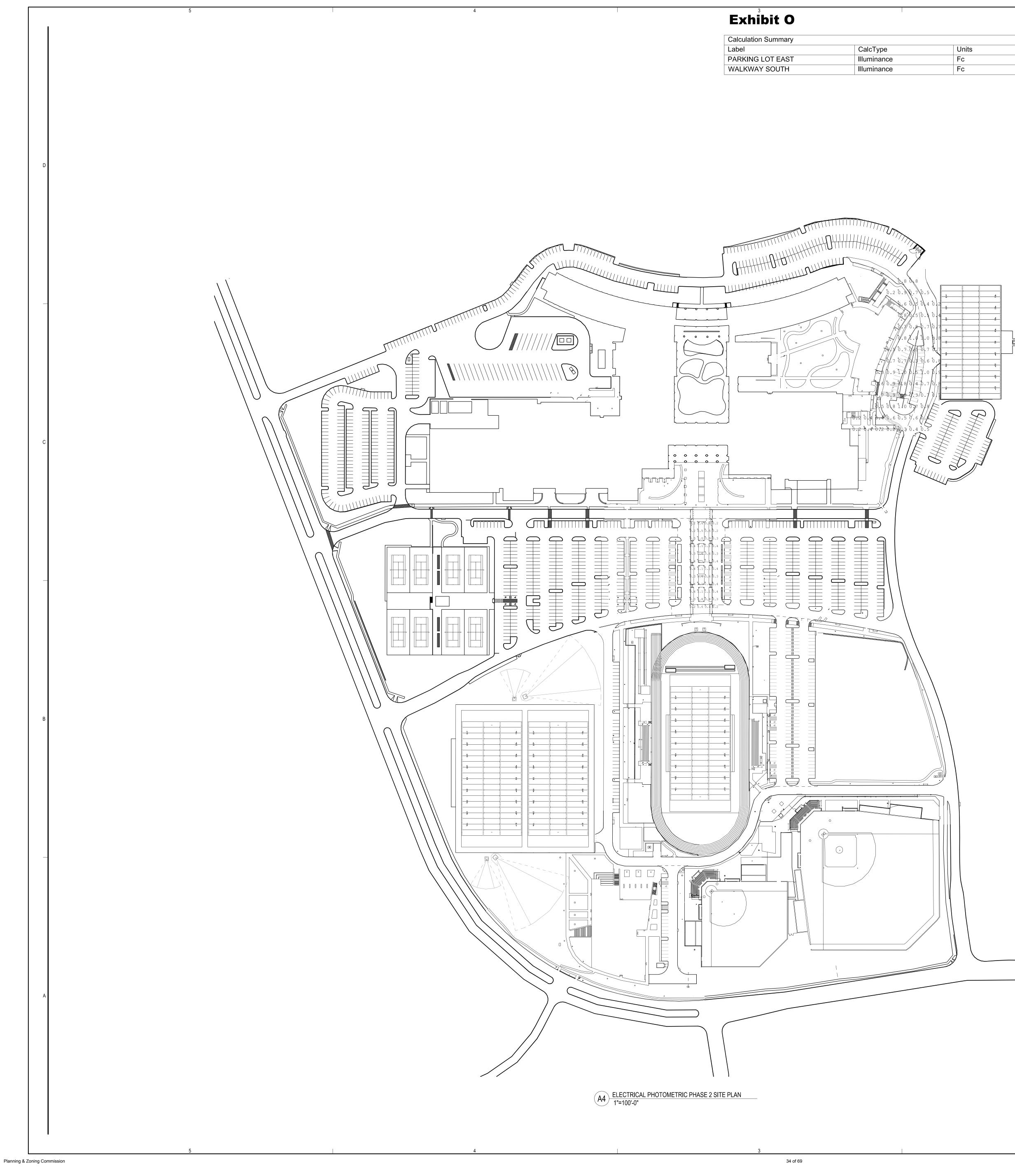
Tyler • Austin • Houston Phone: 1-800-933-0538 TBPE Firm Registration No. F-893 www.estesmcclure.com

SUBMISSION OF BID WILL BE CONSIDERED ACKNOWLEDGMENT THAT THE CONTRACTOR HAS VISITED THE SITE AND HAS VERIFIED ALL EXISTING JOB CONDITIONS AND INCLUDED ANY NECESSARY MODIFICATION TO EXISTING AND NEW WORK REQUIRED FOR INSTALLATION OF A COMPLETE AND WORKING SYSTEM.





Meeting Date: Thursday, October 4, 2018



Units	Avg	Max	Min	Avg/Min	Max/Min
Fc	0.62	1.0	0.2	3.10	5.00
Fc	0.58	1.1	0.2	2.90	5.50

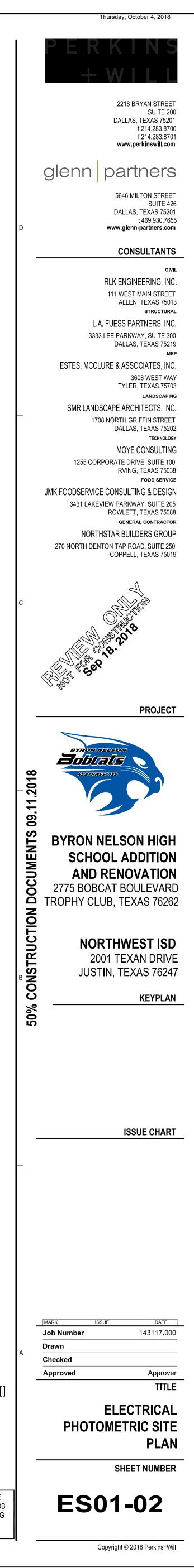
PHOTOMETRIC CALCULATIONS GENERAL NOTES (SOME NOTES MAY NOT BE USED)

- 1. THESE PLANS ARE ACCURATE AND DESIGNED IN COMPLIANCE WITH AND MEET THE REQUIREMENTS OF THE CITY OF TROPHY CLUB OUTDOOR LIGHTING ORDINANCE IN EFFECT AT THE TIME OF THE SUBMISSION OF PLANS.
- 2. ALL CALCULATIONS SHOWN ARE AT THE GROUND LEVEL AND ARE MEASURED HORIZONTALLY.

3. LIGHTING CALCULATIONS HAVE BEEN PRODUCED USING AGI32 LIGHTING SOFTWARE BY LIGHTING ANALYSTS, INC.



SUBMISSION OF BID WILL BE CONSIDERED ACKNOWLEDGMENT THAT THE CONTRACTOR HAS VISITED THE SITE AND HAS VERIFIED ALL EXISTING JOB CONDITIONS AND INCLUDED ANY NECESSARY MODIFICATION TO EXISTING AND NEW WORK REQUIRED FOR INSTALLATION OF A COMPLETE AND WORKING SYSTEM.



Meeting Date: Thursday, October 4, 2018

Town of Trophy Club

Legislation Details (With Text)

File #:	2018-472-T Version: 1	Name:		
Туре:	Agenda Item	Status:	Regular Session	
File created:	9/26/2018	In control:	Planning & Zoning Commission	
On agenda:	10/4/2018	Final action:		
Title:	Regulations in Section 14.02 Ordinances to allow artificial b. Discussion and	te Hearing regarding 2.352(d)(5) and Sec turf on residentially recommendation re Section 14.02.352(egarding a Town-initiated request to amend (d)(5) and Section 14.02.352(g)(5) of the Trophy Cl	lub
Attachments:	PZ Report 10.4.18.pdf Exhibit A - Surveyed Cities.p Exhibit B - Pros and Cons of Exhibit C - General Sub-Bas	<u>df</u> Artificial Turf vs. L	iving Matter.pdf	
Date	Ver. Action By	Act	tion Result	

Case O-AMD-17-004 (Artificial Turf)

a. Conduct a Public Hearing regarding a Town-initiated request to amend Landscaping Regulations in Section 14.02.352(d)(5) and Section 14.02.352(g)(5) of the Trophy Club Code of Ordinances to allow artificial turf on residentially zoned properties.

b. Discussion and recommendation regarding a Town-initiated request to amend Landscaping Regulations in Section 14.02.352(d)(5) and Section 14.02.352(g)(5) of the Trophy Club Code of Ordinances to allow artificial turf on residentially zoned properties.



1 Trophy Wood Drive, Trophy Club, TX 76262 | 682.237.2900 | info@trophyclub.org | trophyclub.org

To: Planning & Zoning Commission

From: Tommy Uzee, Director of Community Development

- CC: Thomas M. Class Sr., Town Manager Holly Fimbres, Town Secretary/RMO
- Re: Case O-AMD-17-004 Planning & Zoning Commission Meeting, October 4, 2018

Agenda Item:

Case O-AMD-17-004 (Artificial Turf)

- a. Conduct a Public Hearing regarding a Town-initiated request to amend Landscaping Regulations in Section 14.02.352(d)(5) and Section 14.02.352(g)(5) of the Trophy Club Code of Ordinances to allow artificial turf on residentially zoned properties.
- b. Discussion and recommendation regarding a Town-initiated request to amend Landscaping Regulations in Section 14.02.352(d)(5) and Section 14.02.352(g)(5) of the Trophy Club Code of Ordinances to allow artificial turf on residentially zoned properties.

Background and Explanation:

In recent years, artificial turf has increased in popularity as residents choose to cover their front, side, and rear yards with it or simply install it for a putting green or playground.

Under Council direction, staff provided research and ordinance drafts to allow artificial turf on residential properties at the December 12, 2017 and February 13, 2018 Town Council meetings.

Data collected for the study identified that certain western United States areas created legislation that permits the use of artificial turf due to drought conditions and water conservation methods. In other areas, it is simply the aesthetic nature that creates the appeal and simultaneously eliminates irrigation needs.

The following contains the proposed additions to Section 14.02.352 entitled "Landscaping Regulations" within the Trophy Club Code of Ordinances to allow residentially zoned property owners to install artificial turf to all maintained areas that are typically sodded. Proposed language is in red.

"Section 14.02.352 Landscaping Regulations

•••

(d) <u>General standards</u>. The following criteria and standards shall apply to landscape materials and installation:

•••

(5) <u>Ground cover</u>. Ground covers used in lieu of grass in whole and in part shall be of live material and shall be planted in such a manner as to present a finished appearance and reasonably complete coverage within one year of planting. Artificial turf is considered ground cover in residential districts when in compliance with Section 14.02.352(g)(5).

...

(g) <u>Requirements for residential districts</u>. In addition to the above-listed requirements, all areas within the town which are zoned for residential use, by either "straight zoned" districts or by planned developments, shall have the following requirements.

•••

(5) <u>Artificial turf</u>. The use of artificial turf is allowed in residential districts if the conditions below are met.

(A) Submission of a certified grading plan prepared by a registered surveyor of the State of Texas for review and approval by the Building Official.

(B) Artificial turf damaged during the repair, replacement, or addition of utilities, streets, and sidewalks will be the responsibility of the homeowner.

(C) Artificial turf shall be installed per the manufacturers' installation specifications, and over compacted natural soil, an approved weed barrier, and a compacted aggregate base, before the final installation of the turf."

Financial Considerations:

Not applicable.

Legal Review:

Ordinance to be reviewed by Town Attorney.

Staff Recommendation:

Staff recommends approval of the amendment to the ordinance as submitted.

Attachments:

- Exhibit A Surveyed Cities
- Exhibit B Pros and Cons of Artificial Turf vs. Living Matter
- Exhibit C General Sub-Base Construction

37 of 69

Exhibit A

Surveyed Cities – Artificial Turf Ordinance

McKinney:

https://library.municode.com/tx/mckinney/codes/code_of_ordinances?nodeId=SPBDER E_CH146ZORE_AP_APXAPLAPLARE_SA-1APPLLI

Artificial plants or turf are expressly prohibited.

Keller: Contact: Daniel Section 8.08 https://www.cityofkeller.com/home/showdocument?id=18049

The ordinance does not specifically address artificial turf, but states, "All required landscaped open areas shall be completely covered with living plant material. Artificial landscaping materials such as wood chips and gravel may be used under trees, shrubs and other plants."

Westlake:

https://library.municode.com/tx/westlake/codes/code_of_ordinances?nodeId=COOR_C H98VE_ARTIIILA_DIV2DEST_S98-110ACLAMA

The ordinance does not specifically address artificial turf, but states, "No artificial plants. No artificial plant material may be used to satisfy the requirements of this article."

Argyle:

Section 14.3.67

http://z2.franklinlegal.net/franklin/Z2Browser2.html?showset=argyleset&collection=argyle&documentid=819#819

The ordinance does not specifically address artificial turf, but states, "All non-paved surfaces shall be completely covered with living plant material."

North Richland Hills:

Section 114-71

https://library.municode.com/tx/north_richland_hills/codes/building_and_land_use_regul ations?nodeId=PTIICOOR_CH114VE_ARTIIILABURE_S114-71LARE

The ordinance does not specifically address artificial turf, but states, "No area shall be maintained with bare soil. All ground surfaces not used for buildings, sidewalks, roadways, or other impermeable surfaces shall be covered with live grass, turf, shrubbery, trees, ground cover, flowering plants or appropriate mulching and only those areas with live plant materials shall be included in the calculation for determining compliance with the percentage of lot coverage."

Exhibit A

Grapevine:

Appendix D, Section 53

https://library.municode.com/tx/grapevine/codes/code_of_ordinances?nodeId=PTIICOO R_APXDZORDN082-73_S53LARE

The ordinance does not specifically address artificial turf, but states, "Grass areas may be sodded, plugged, sprigged or seeded except that solid sod shall be used in swales, berms or other areas subject to erosion."

Southlake:

Contact: Selena

There is no ordinance or code in place for artificial turf, and none is being considered at this time.

Colleyville:

Contact: Kelly

There is no ordinance or code in place for artificial turf, and none is being considered at this time.

Allen:

Contact: Pat Conway

There is no ordinance or code in place for artificial turf, and none is being considered at this time.

Denton:

There is no ordinance or code in place for artificial turf.

Lewisville:

There is no ordinance or code in place for artificial turf.

Addison:

There is no ordinance or code in place for artificial turf.

Richardson:

There is no ordinance or code in place for artificial turf.

Seguin:

There is no ordinance or code in place for artificial turf.

Aledo:

There is no ordinance or code in place for artificial turf.

Exhibit B

Pros and Cons of Artificial Sod Use

(Summary of Online Exhibits)

Pros:

Water conservation

Eliminates the use of power equipment

- 1) Noise
- 2) Pollution

Eliminates Contaminants

- 1) Fertilizers
- 2) Pesticides

Creates a more uniform look

Has a 15 – 20 year life span

Non-Toxic, allergen relief

<u>Cons:</u>

Expensive to install

Hot to touch in the summer

No water seeping to compacted soil under installation

No oxygen production due to lack of living matter

Contaminants are not cleanable from artificial material

Components comprised of recycled rubber, difficult to dispose of

Carcinogens existing in the material

Softening fillers under turf require periodic replacement

Drainage patterns interrupted due to required swales and berms that direct flow are removed, creating possible damage to structures on same property as well as adjacent properties



Pros and Cons of Synthetic Grass

Pro Referral > Home Guides > Landscaping > Pros and Cons of Synthetic Grass



Home Improvement Writer: Benjamin

Roussey

A lawn can be a lovely thing, pleasing to the eye and a place to chill out and unwind. But as with all things, the beauty and pleasure comes at a cost. The cost is one of time and effort as well as money. The alternative to natural grass is the synthetic option. First created in the 1960s, synthetic grass was initially intended for use in sporting arenas like football stadiums where the maintenance of natural grass was costly and required investment in manpower and special equipment. Over time, its use has spread to homes

because of the many advantages it offers. However, there are also downsides to synthetic grass.

The Need for Synthetic 1. Grass

As a homeowner you are proud of the home in which you live and want it to both look its best as well as offer you and your family the comforts you need. The lawn is an integral part of both the look and the comfort. If you are one of those who has a green thumb and enjoys spending time caring for your lawn, watering it, cutting the grass and pulling out weeds, than natural grass is right for

While synthetic grass is the best option for sporting applications and events, the case for its use on your property is not quite as clear cut.

you. However, if your aim is to enjoy your lawn without having to put in any effort, then synthetic grass is the way to go. Do not think that pulling up your lawn and replacing it will synthetic grass will solve all your problems. For all the convenience you gain, you lose some of the advantages of natural grass.

An article titled "Natural Versus Artificial Turf- an Economical Alternative" by William B. Davis in California Turfgrass Culture, published by the University of California, found that while synthetic grass is the best option for sporting applications, the case for its use on personal properties is not quite as clear cut.

42 of 69 Planning & Zoning Commission Meeting Date: Thursday, October 4, 2018 https://www.proreferral.com/hg/pros-and-cons-synthetic-grass/

11/15/2017

You can find details of synthetic grass manufacturers and suppliers as well as landscapers in your area so you can contact them to discuss your lawn needs and the benefits and negative points of synthetic grass.

2. The Advantages of Synthetic Grass

1. Synthetic grass, once installed requires little in the way of maintenance – no watering or mowing is required.

2. You save on the cost of water and buying and operating a lawn mower.

3. No expensive fertilizers and weed killers need be bought.

4. Because you do not need to use chemicals to grow or protect the grass, you are not adding to pollution levels and affecting the environment on an ongoing basis.

5. You will not have to spend time pulling out weeds.

6. Synthetic grass is long lasting and you will not have to incur the expense or hassles of period replanting that natural grass will require.

7. Synthetic grass offers excellent drainage so after rain or the use of water to wash it, the grass it will dry quickly.

8. The good drainage also means that you don't have to worry about puddles of water collecting and lasting for days and then leaving patches of mud for the unwary to step in.

9. Play sports on the lawn will not damage the grass.

10. Synthetic grass always looks perfectly manicured so you will never be embarrassed by an unkempt lawn.

3 Disadvantage of Synthetic Grass

If all these solid reasons sound like they make an airtight case for the use of synthetic grass, the following list of disadvantages will help you balance the picture. After all, nothing is really perfect.

1. The upfront cost of installing synthetic grass can be very high, making it financially impractical.

2. There is normally a rubber cushion below the surface to provide softness and bounce. This may require occasional re-filling.

3. Synthetic grass can become unpleasantly hot in summer.

4. There are fears that the chemicals used in the manufacture of synthetic grass can be harmful to the health. Although manufacturers say that they meet health and safety standards, the debate remains inconclusive.

5. Synthetic grass is not natural grass – it cannot offer the special scent of wet earth and grass or the sweet smell of freshly cut grass.

4. The Choice is Yours

There are arguments for and against synthetic grass. You should weigh the pros and cons carefully, with your objectives and needs in mind before making a final decision.

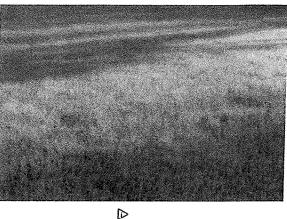
44 of 69

11/15/2017

https://www.proreferral.com/hg/pros-and-cons-synthetic-grass/

What Are the Disadvantages of Using Synthetic Grass?

The idea of putting away the mower forever sounds appealing, but synthetic grass comes with its own set of problems. Artificial grass is often touted for hot climates with low rainfall where grass struggles to grow without lots of watering. Before you tear up your existing lawn, understand the potential drawbacks of the synthetic grass.



Ad

The Synthetic Grass Store

Contractor & DIY grass only starting at \$.99 Artificial Turf & Putting greens syntheticgrassstore.com

Cost

A synthetic lawn is expensive to install. Costs include grass removal, ground preparation and materials. Artificial turf systems come with the option of drainage systems and irrigation to control the temperature of the grass, which increase the cost. The artificial grass costs from \$8 to \$14 per square foot, noted Mark Radeke of Easy Turf in a 2010 article featured on KPBS, a public radio station in San Diego, California. If you have a large yard, the overall cost of the project adds up quickly.

Temperature

Real grass has a cooling effect when the air temperature is high. Artificial grass lacks this cooling quality. The grass itself may become hotter than the air and can make the surrounding air feel hotter. A hidden water system can keep the synthetic grass cooler to the touch so it feels more comfortable on your feet. The material used as padding beneath the synthetic grass affects the temperature. Special products in the padding keep grass temperatures lower. A light color in the artificial grass blades is another way to cool the lawn.

Runoff

Real grass and natural landscaping materials allow rainwater to seep down into the soil. Synthetic turf is typically designed to allow water to soak through, but it may not allow all rainwater to seep down into the soil, especially if the soil underneath becomes compacted. The storm water runoff carries debris into the storm sewers, where water sources can become polluted.

Materials

You may have concerns about the material used to make synthetic grass. Real grass is a living ground cover that produces oxygen as it grows. The environmental impact of artificial grass varies. The padding is often made of recycled tires, which keeps them out of the landfill, but the petroleum-based artificial grass materials are far from natural. Research about the safety of using this artificial materials on the lawn is limited, so it's up to you to decide for yourself if the grass is a healthy option for covering the yard. Padding material not made from rubber is available if you have concerns about covering your lawn in the material.

Upkeep

You won't have to mow anymore, but your synthetic grass still requires care to keep it looking attractive. You need to sweep or spray the grass to remove debris that falls onto the surface. Sanitation of the lawn is also a concern. Everything from blood to your dog's poop contaminate the artificial grass. While contaminants rinse off real grass, synthetic grass doesn't have the same trait. You will need to clean up any messes that could potentially be a health hazard. Contact

Terms

Thursday, October 2010 f 19



About Us

We are the Authority on Artificial Grass!

Our Rating Criteria

Home

Brands

How to Install Artificial Grass

Privacy Policy

Artificial Grass vs Real Grass

About ArtificalGreens.org

This is a project to help you learn and gain a better understanding of the rising trend of artificial grasses. You will find comparisons, reviews, answers to your burning questions and more than you ever wanted to know about artificial turfs and grasses!

Artificial Grass Reviews

EverGreen TuffTurf Kloud City Pet Zen Garden PreGra SynLawn

Pros & Cons of Artificial Grass

... and the day has come when a synthetic product is greener than its natural equivalent.While the question of whether artificial grass is actually as environmentally friendly as its manufacturers claim, there are some tried and true reasons lawns everywhere are sporting the lush, year-round gorgeousness of

Our Recommendations

Best Artificial Grass for Dogs Artificial Grass vs Real Grass Best Artificial Grass Rugs Best Artificial Grass for Cats Artificial Grass for Putting Greens Best Types of Artificial Grass Sprays Best Artificial Grass at Home Depot

Frequently Asked Questions

How Much Does Artificial Grass Cost?

How to Install Artificial Grass? How to Maintain Artificial Grass? Can Artificial Grass Cause Cancer? Pros & Cons of Artificial Grass Can Artificial Grass be Recycled? Types of Artificial Grass Infills Installing Plants into Artificial Grass Where can I Lay Artificial Grass? Can I Wear Shoes/Cleats on Artificial Grass?

Types of Artificial Grass/Turf? How to Lay Artificial Grass on Soil? Synthetic GreenScapes

Search

Search

fake turf, only one of which is the fact that it looks natural enough to fool even the most intrusive neighbor.

One of the disadvantages of replacing your lawn with artificial grass however, is the initial cost of installation, which can be seen as an investment once you make a quick pros and cons list- better yet, check out ours!

The Pros: Advantage s of a Synthetic Lawn

> 1. *Save Time, Money* & Water

Saving water and time (also money, if you outsource labor) on lawn maintenance are two of the top advantages home and business owners cite as the reason for replacing their lawns. These reasons are not unfounded, since statistics show that synthetic turf saves up to 55 gallons of water (per square foot) a year and that the average natural lawn owner will spend 2.8 hours a week on lawn maintenance. This is more than farmers spend on growing crops like sugarcane, corn, or even rice. This is some serious lawn labor.

49 of 69

While synthetic lawns are not one-hundred percent maintenance free, keeping them clean is a simple matter of raking or rinsing with water (if you have pets) occasionally.

2. Perman ent Perfecti on

In some places, the maintenance of a lawn includes much more than time & moneythere's also the frustration of a patchy, discolored lawn that hardly ever *shows* the maintenance cost.

Poor soil, pests, an uneven terrain and irregular

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shade can create a lawn that is most definitely not greener and since lawns serve an almost exclusively aesthetic purpose, why not opt for a really good-looking lawn and save some time, money, and water while you're at it? The main reason most people are completely flabbergasted when they find out a lawn they've been admiring is actually fake is the bright green legacy of AstroTurf. The first generation of the stuff clearly looked (also smelled and felt) like plastic, but the advances made since then

Planning & Zoning Commission http://artificialgreens.org/pros-cons/ 51 of 69

Meeting Date: Thursday, October 4, 2018 11/15/2017 not only make artificial grass *look* uncannily real, but also function like natural grass.

Available in a variety of styles (bluegrass, bent grass, pet grass, winter-rye and fresh-cut, etc.) lengths, weights, thicknesses, color combinations and even thatch or moss additions (to amp up the realness), you can have a truly beautiful lawn year-round.

> 3. *Syntheti c Turf is Water Permea ble*

Artificial grass functions like real grass in that it is permeable to water (and other

Planning & Zoning Commission

52 of 69

Meeting Date: Thursday, October 4, 2018 11/15/2017

http://artificialgreens.org/pros-cons/

liquids such as dog urine), but in a convenient way whereby mud is never an issue.

Synthetic turf is made with a lining material with thousands of tiny little holes that allow the grass to drain, preventing runoff and nasty puddles, so I guess we can add "clean floors & carpet" here. Another great thing about the water permeable feature is that grass dries quicker.

> 4. *Immunit y to Pests & Bacteria*

Artificial grass is not natural, which means that ticks, fleas, bacteria, and other

Planning & Zoning Commission http://artificialgreens.org/pros-cons/

53 of 69

Meeting Date: Thursday, October 4, 2018 11/15/2017

crawling critters find it to be an unattractive hostwhich is an amazing relief if you have children and/or pets.

> 5. *Artificial Turf Is a Friend to the Environ ment*

An artificial lawn can coexist with natural plants and trees; it creates no fumes or spills from gaspowered lawnmowers; produces no environmental damage or safety hazard from fertilizers and pesticides, and saves 55 gallons of annual household water consumption.

A tell-tale sign of something environmentally unfriendly is its inability to coexist with something organic. Studies have found that artificial turf is non-toxic to humans, pets, and organic plants. It is entirely possible (by installing drip systems) to have a synthetic lawn and real trees and plants living side by side.

Another huge red flag waved by sprawling realgrass lawns are the lawn-mowers. These machines consume 17 million gallons of fuel annually and lawn mowers create a *lot* of pollution; the push-kind can

Planning & Zoning Commission

55 of 69

http://artificialgreens.org/pros-cons/

rack up in one hour, the pollution of 11 cars combined, while a riding mower emits the equivalent of 34 cars, also within one hour.

Pesticides, weed killers, and fertilizers are yet another area of concern. Homeowners alone (we're not talking about farmers) are using 70 million pounds of herbicides and insecticides and an additional 3 million tons of synthetic fertilizers annually. While the safety concerns from pure contact with treated natural grass are as inconclusive as concerns for

Planning & Zoning Commission http://artificialgreens.org/pros-cons/ 56 of 69

Meeting Date: Thursday, October 4, 2018 11/15/2017

synthetic fillers in artificial grass, the *real* concern is coming from what these chemicals do when they make their way into water systemsand between 40 and 60 percent are currently doing so.

While water consumption is a popular reason people are making the switch to artificial grass, it is actually one of the smallest contributors to the environmental impact of growing and maintaining a natural lawn. The others have been listed- an artificial turf creates zero of these concerns.

Planning & Zoning Commission http://artificialgreens.org/pros-cons/

57 of 69

Meeting Date: Thursday, October 4, 2018 11/15/2017

The Cons: Disadvant ages of a Synthetic Lawn

1. The Cost of Installati on

Installing artificial grass involves a lot of expenses; from delivery, the cost of labor, dumping fees and then the cost of a good-quality turf, you're looking to spend between \$7 and \$25 per square foot.

While the average homeowner will plunk down a few thousand dollars for a full lawn, keep in mind that this is a longlasting investment (most artificial

Planning & Zoning Commission

http://artificialgreens.org/pros-cons/

58 of 69

Meeting Date: Thursday, October 4, 2018 11/15/2017

turfs last between 15-20 years, and higher qualities up to 30 years). Also, given that you are saving on a lawn-mower (or lawn service), a sprinkler system (plus water costs), and fertilizers, weedkillers, and pesticides, you will make up that cost within 3-5 years.

> 2. *Antishock Layer and Infill Must be Replace d*

Artificial grass requires very little maintenance after installation, but if you installed an anti-shock layer (which is what

Planning & Zoning Commission

59 of 69

http://artificialgreens.org/pros-cons/

makes it cushiony to the touch) and/ or infill (for stability), those features will need to be replaced every few years.

Residential lawns usually require an anti-shock layer, which is a material that is placed right underneath the turf. This layer gives the lawn a natural feel and is recommended for people with children and/or pets. Infill is also an extra, used to stabilize the turf and increase the efficiency of its draining capabilities. Infill also helps keep artificial grass looking lush and perky.

Since these materials lay near

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the surface of the turf and serve a comfort function, they must be replaced/ refilled a few times throughout the turf's lifetime.

> 3. Should You be Concern ed About Chemica I Fumes?

Scandalous and terrifying reports have been published claiming that artificial grass, since it is synthetic, contains harmful chemicals that may cause cancer or other illnesses. These claims are not backed by scientific

Planning & Zoning Commission

61 of 69

11/15/2017

evidence and studies have shown synthetic turf to be less harmful to the human body than what we encounter on a regular, day-today basis in our normal environment.

> 4. *It Can Get Hot in Direct Sunlight*

Artificial grass is notorious for hotness- not in a good way, but it's getting better than its pioneer days as a blazing green carpet made of molten plastic. This is precisely where this the ambiguity arises from this argument- the newer stuff is

Planning & Zoning Commission http://artificialgreens.org/pros-cons/

62 of 69

Meeting Date: Thursday, October 4, 2018 11/15/2017

Thursday, Case 4 70 of 19

accounting for this defect. In direct sunlight, the surface of artificial grass can range between 120 and 165 degrees, which is significantly hotter than aphsalt. That being said, synthetic turf does cool really fast and is not affected when it is laid in areas with ample shade. Also, since this has been one of the most criticized features of the product (especially since it is used widely in professional sports), manufacturers are now making artificial grass with cooling technology.

> 5. Artificial Grass is

Planning & Zoning Commission

http://artificialgreens.org/pros-cons/

63 of 69

Meeting Date: Thursday, October 4, 2018 11/15/2017

Not Natural

The last disadvantage of replacing your natural lawn with artificial grass is that you're replacing something natural with something that is in all simplicity, fake. This means that if you were fond of the smell of freshly mowed grass or watching your cat (or dog) chew on the crunchy green blades, these experiences are not an option for someone with a synthetic lawn.

There's also the question of organic material. This can be both an advantage: no fleas, ticks, ants,

Planning & Zoning Commission

11/15/2017

http://artificialgreens.org/pros-cons/

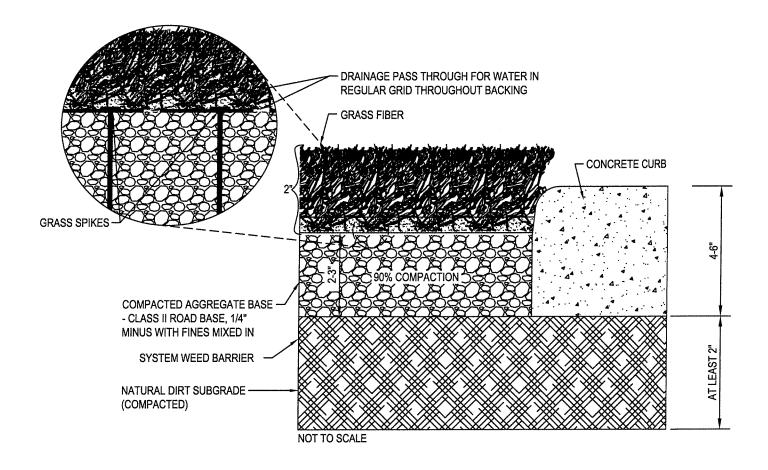
snakes, etc., or a disadvantage: the guilt you feel when you think about all the earthworms you dislocated.

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Planning & Zoning Commission

11/15/2017

Exhibit C



SPECIFICATIONS					
YARN TYPE: GRASS ZONE					
YARN TYPE: THATCH ZONE					
ROLL WIDTH:					
MAXIMUM DRAIN RATE:					

POLYETHYLENE TEXTURIZED POLYPROPYLENE 15' WIDTH >30 INCHES PER HOUR

NOTE: THE GRASS MUST BE INSTALLED AND SEAMED WITH ADJACENT PIECES RUNNING IN THE SAME DIRECTION

NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH SPECIFICATIONS BY FACTORY AUTHORIZED INSTALLERS.

2. DO NOT SCALE DRAWINGS.

Town of Trophy Club

Legislation Details (With Text)

File #:	2018-475-T Version:	1	Name:			
Туре:	Agenda Item		Status:	Regular Session		
File created:	9/26/2018		In control:	Planning & Zoning Commission		
On agenda:	10/4/2018		Final action:			
Title:	Review and approve the minutes of the September 6, 2018 Planning & Zoning Commission meeting.					
Attachments:	PZ Minutes 09.6.18 DRAFT.pdf					
Date	Ver. Action By		Act	on	Result	

Review and approve the minutes of the September 6, 2018 Planning & Zoning Commission meeting.

Town of Trophy Club

Legislation Details (With Text)

File #:	2018-476-T	Version:	1	Name:			
Туре:	Agenda Item			Status:	Regular Session		
File created:	9/26/2018			In control:	Planning & Zoning Commission		
On agenda:	10/4/2018			Final action:			
Title:	Town Planner Updates; update on previous cases heard by the Commission; Discussion on current Town development issues and development codes.						
Attachments:							
Date	Ver. Action By	,		Ac	ion	Result	

Town Planner Updates; update on previous cases heard by the Commission; Discussion on current Town development issues and development codes.