



All applications must be submitted in accordance with the Submission Schedule attached hereto. Please complete the attached checklist. A site plan application must be submitted with all Conditional Use Permit Applications.

Applicant (Owner or Agent, Specify):	lennifer Gansert, Kimley-Horn and Associ	iates, Inc.
Mailing Address: _801 Cherry St, Unit 11, 9	Suite 1300	h
Phone:972-770-1343	Fax:	
Email Address*: jennifer.gansert@kimley-l (*This will be the primary method of communication)	horn.com	
Owner's Name(s) if different1: A-S 114 L	_antana Town Center LP	
Owner's Address: 8827 W Sam Houston I	Pkwy N Suite 200, Houston, Tx, 77040	
Phone:	Fax:	
General Location of Property: 3800 FM	407, Bartonville, Tx	
Current Zoning: GC/PD1	_	
Legal Description of Property:DCFWS	SD#7 RETAIL CENTER ADDITION BLK A	A LOT 3
Use Being Requested (In accordanc Bartonville's Comprehensive Zoning O	e with Appendix C:Land Use Tardinance: Restaurant (Quick Service) w	able, of the Town of v/ Drive-Through
I hereby certify that the information co and that I am the owner of record oproperty.	or the authorized for the owner o	of the above described
Signature of Applicant/Owner	Date	
STAFF USE ONLY:		
Date Submitted:	Fee Paid:	
Accepted By:	Check No. :	
P& Z Public Hearing:	Metes & Bounds Attached: ☐ Yes	□No
Council Public Hearing:	Notarized Statement: ☐ Yes ☐ No	□ N/A

¹ A NOTARIZED statement that authorizes the agent to represent the owner(s) in this matter must be attached to this application.



NOTARY FORM

Town of Bartonville

THE FOLLOWING IS TO BE COMPLETED BY EACH OWNER THAT IS NOT SIGNING THIS APPLICATION.

Dated:	
1, Jay K. Sears, Majagge	, owner of the Property located at
3800 FM 407	do hereby certify that I have given my permission to
KIMINY HOLD AND ASSOCIATES	to submit this conditional use permit
application.	John State of the
Print Name	Signature of Owner
8827 W. San Houses Page N; Sunt 200, Address	Houses Tx 77040 281.640.7195 Phone No.
State of Texas County of Harris Before me, Juny Hunter on this day personally appeared the person whose name is subscribed to the same for the purposes and consideration the	ne foregoing certificate, and acknowledged to me that he/she executed the
JUDY HUNTER Notary Public, State of Te Comm. Expires 10-18-20 Notary ID 128417863	026



TOWN OF BARTONVILLE SITE PLAN APPLICATION/SITE PLAN AMENDMENT APPLICATION

1.	Applicant: Name: Jennifer Gansert, Kimley-Horn and Associates, Inc.
	Address: 801 Cherry St, Unit 11, Suite 1300
	City/State: Fort Worth, Texas Zip:Zip:
	Office #:972-770-1343Cell #:281-413-3570Fax #:
	Email Address: jennifer.gansert@kimley-horn.com
2.	Property Owner: Name: A-S 114 Lantana Town Center LP
	Address:_8827 W Sam Houston Pkwy N Suite 200
	City/State: Houston, Tx Zip: 77040
	Office #:Fax #:
	Email Address: MHARNEY & NEW QUEST. COM
3.	Site Location: Street Address: 3800 FM 407, Bartonville, Tx 76226
	Lot, Block, & Subdivision Name: DCFWSD#7 RETAIL CENTER ADDITION BLK A LOT 3
4.	Summarize the proposed development. If necessary, use a separate sheet.
	Proposed Andy's Frozen Custard - Drive thru
	V
5.	Present Zoning: GC/PD1 Present Land Use: Vacant
	Future Land Use Designation: Commercial Business

6. All applications must contain the required information as specified in the Town of Bartonville's Comprehensive Zoning Ordinance, (Code of Ordinances, Chapter 14, Exhibit "A").

I UNDERSTAND THAT IT IS NCESSARY FOR ME OR MY AGENT TO BE PRESENT AT BOTH THE PLANNING AND ZONING COMMISSION MEETING AND TOWN COUNCIL MEETING

FAILURE TO APPEAR before the Planning and Zoning Commission or Town Council for more than one (1) hearing without an approved delay by the Town Administrator or his/her designee shall constitute sufficient grounds to table or deny the request unless the Town is notified at least 72 hours prior to the hearing.

DENIALS BY THE PLANNING AND ZONING COMMISSION shall be forwarded to Town Council, along with the Commission's reasons for denial and will require a ¾ favorable vote of all members of Town Council.

TABLED BY THE PLANNING AND ZONING COMMISSION: The Commission may not defer its report for more than 90 days from the time it was posted on the agenda, or until it has had an opportunity to consider other proposed changes, which may have a direct bearing, unless a postponement is requested by the applicant.

Ionnifor Concort

Applicant Name (p	orint or type):	lei Ganseit	
Applicant signatur			
Applicant signatur	e. <u> </u>		
Owner Name (prir	nt or type): 🜙 🍑 🤞	C. SEARS, MAJAGOR	
Owner signature:		WS	
-			
Date Received	Date Paid	Receipt Number	

NOTARY FORMTown of Bartonville

THE FOLLOWING IS TO BE COMPLETED BY EACH OWNER THAT IS NOT SIGNING THIS APPLICATION.

Dated:
8827 W. Sau House Proy N.; Suite 200; Houses Tx 77040 251.640.7195 Address Phone No.
State of Texas § County of Harris § Before me,
JUDY HUNTER Notary Public, State of Texas Comm. Expires 10-18-2026 Notary ID 128417863 Notary

CIVIL CONSTRUCTION PLANS FOR ANDY'S LANTANA

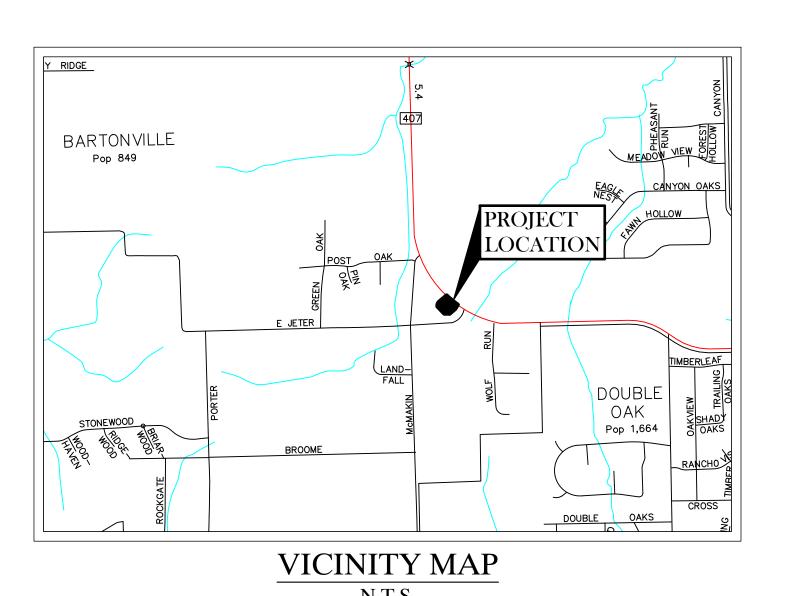
3800 FM 407 BARTONVILLE, TX 76226

PLANS SUBMITTAL/REVIEW LOG

 1ST CITY SUBMITTAL
 11/06/2023

 90% CD SUBMITTAL
 11/10/2023

 100% CD SUBMITTAL
 11/17/2023



COUNCIL DISTRICT: 7

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
C-00	COVER SHEET
	RECORDED PLAT
C-01	GENERAL NOTES
C-02	DEMOLITION PLAN
C-03	SITE PLAN
C-04	PAVING & DIMENSION CONTROL
C-05	CONSTRUCTION DETAILS (1 OF 2)
C-06	CONSTRUCTION DETAILS (2 OF 2)
C-07	GRADING PLAN
C-08	EXISTING DRAINAGE AREA MAP
C-09	PROPOSED DRAINAGE AREA MAP
C-10	STORM SEWER PLAN
C-11	UTILITY PLAN
C-12	EROSION CONTROL PLAN
C-13	EROSION CONTROL DETAILS
LP 1.01	LANDSCAPE PLAN
LP 2.01	PLANTING DETAILS
LP2.02	PLANTING DETAILS
LP 2.03	PLANTING SPECIFICATIONS

DEVELOPER:

ANDY'S FROZEN CUSTARD
211 E WATER STREET
SPRINGFIELD, MO 65806
PH. (417) 380-8007
CONTACT: JOSH BRAUN

ARCHITECT:

HUFFT
3612 KARNES BLVD
KANSAS CITY, MO 64111
PH. (816)513-0200
CONTACT: JEFFERY KLOCH

ENGINEER
Kimley » Horn

TEXAS REGISTRATION NO. F-928

801 CHERRY ST, UNIT 11, SUITE 1300 FORT WORTH, TEXAS 76102 PH (972) 770-1343 CONTACT: JENNIFER GANSERT, P.E. LANDSCAPE ARCHITECT

Kinley» Horn

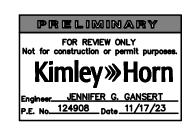
6160 WARREN PKWY, SUITE 210

FRISCO, TEXAS, 75034

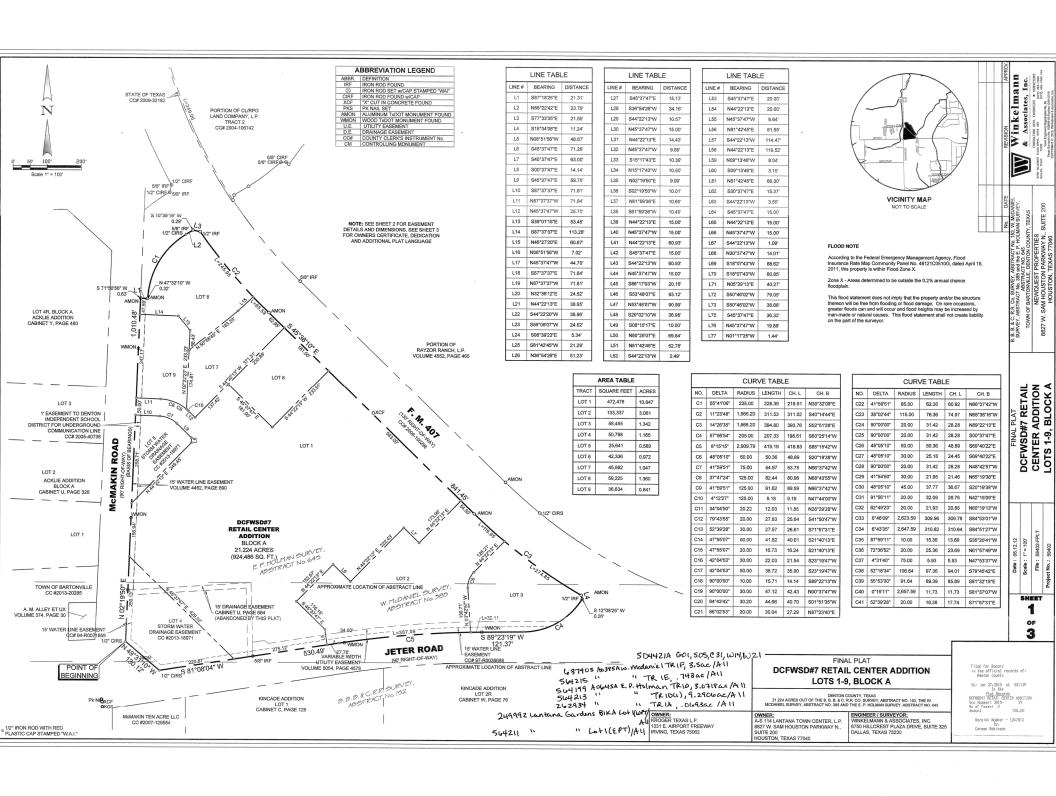
CONTACT: ALYSA GAPINSKI

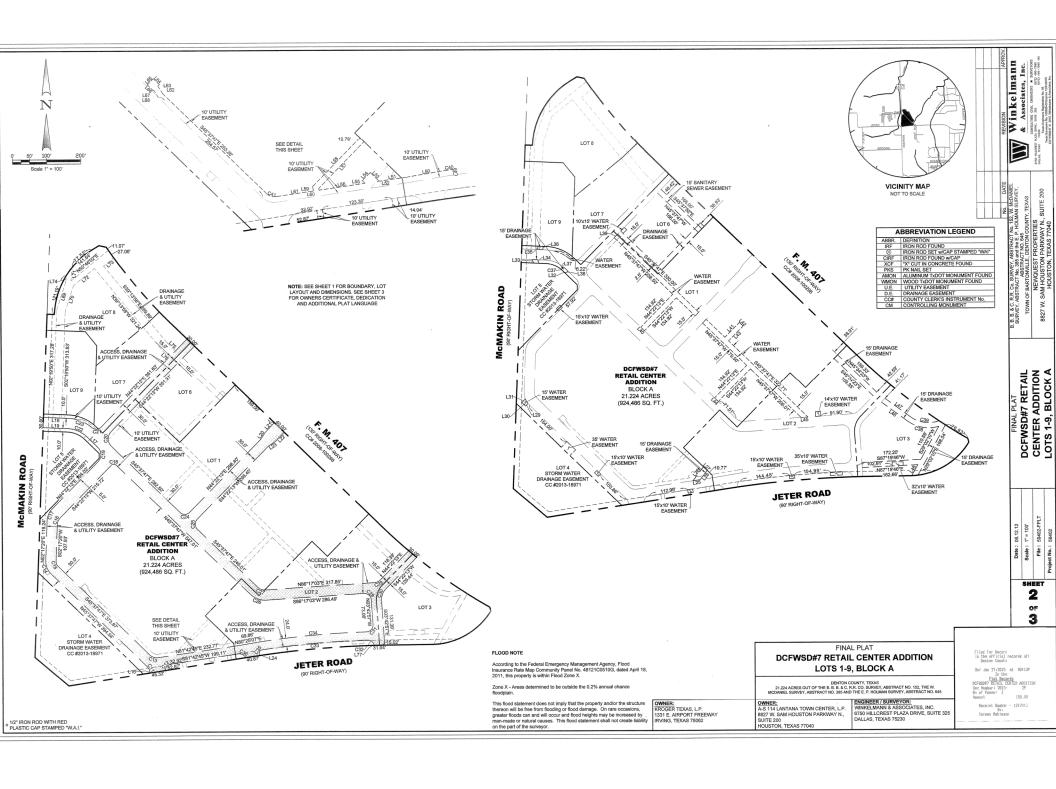
PH (469) 287-5285

NOVEMBER 2023









WHEREAS, We, Kroger Texas L.P., and A-S 114 Lantana Town Center, L.P., are the sole owners of a tract of land situated in the B. B. S. C. R.R. Co. SURVEY, ABSTRACT No. 152, W. McDANIEL SURVEY, ABSTRACT No. 355 and the E.P. HOLLAMS NURVEY, ABSTRACT NO. 656, Denino County, Texas, being all of two tract of land described indeed to froger Texas, L.P. as recorded in County, Clark's Instrument Nos. 2013-16914 and 2015-24096, Official Public recorded in County Clark's Instrument Nos. 2013-16914 and 2015-24096, Official Public Records in County, Clark's Instrument No. 2014-174, Official Public Records in County, Clark's Instrument No. 2014-174, Official Public Records, Denton County, Texas, and being more particularly described by maters and bounds as follows:

BEGINNING at a 172-insh into mof found for course on the East right-of-way line of Medicin Roads as 90-bor right-of-way, seal point bear in the Northery and or a comer day at the interaction of sale East right-of-way j

THENCE North 02 deg 19 min 50 sec East, along the East line of said McMakin Road and the Westerly line of said Rayzor tract, a distance of 1,010.48 feet to a 172-bit hor nor with a plastic roap stamped W.A.F. and to see the same of said horizon that a distance of 1,010.48 feet to a 172-bit hor nor with a plastic roap stamped W.A.F. after for corner, said point being South 71 deg 50 min 59 sec West, a distance of 0.83 feet from an aluminum TxDOT monument found, said point being a Southwesterly corner of a tract of land described in deed to the State of Texas as recorded in County Clerk's instrument No. 2008-100298, Real Property Records, Denton County, Texas, said State of Texas tract being the

THENCE along the South and Westerly line of said State of Texas tract (F. M. 407), the following courses and distances:

South 87 deg 18 min 25 sec East, a distance of 21.31 feet to a 1/2-inch iron rod with a plastic cap stamped "W.A.I" set for corner from which an aluminum TxDOT monument found for corner beans North 47 deg 32 min 10 sec West, a distance of 0.25 feet, said point also being the beginning of a non-tangent curve to the right having a radius of 23.500 feet, a central angle of 55 deg 41 min 06 sec, a chord bearing of North 30 deg 32 min 06 sec East, and a chord length of 219.51 feet;

Along said non-tangent curve to the right, an arc distance of 228.39 feet to a 1/2-inch iron rod with a plastic cap

North 58 deg 22 min 42 sec East, a distance of 23.79 feet to a 1/2-inch iron rod with a plastic cap stamped "W.A.t" set for corner from which a 5/8-inch iron rod found for corner bears South 10 deg 39 min 19 sec West, a distance of 0.29 feet;

South 77 deg 33 min 35 sec East, a distance of 21.55 feet to a 12-ionh iron rod found for corner from which a 568-bnt horn rod found for corner bears South 10 deg 39 min 19 sec West, a distance of 0.29 feet, said point being the beginning of a non-tangent curve to the left having a radius of 1,562.00 feet, a control angle of 11 deg 23 min 48 sec, a chord bearing of South 40 deg 14 min 44 sec East, and a chord length of 311.02 feet.

Along said non-tangent curve to the left, an arc distance of 311.53 feet to an aluminum TxDOT monument found for

South 45 deg 38 min 10 sec East, a distance of 841.45 feet to an aluminum TxDOT monument found for corner, said point being the beginning of a curve to the left having a radius of 1,566.20 feet, a central angle of 14 deg 26 min 35 sec, a chord bearing of South 52 deg 51 min 28 sec East, and a chord length of 393.76 feet;

Along said curve to the left, an arc distance of 394.80 feet to an aluminum TxDOT monument found for corner

South 15 deg 34 min 08 sec East, a distance of 11.24 feet to 1/2-inch iron rod with a plastic cap stamped "W.A.I" set for comer from which a 1/2-inch iron rod found for comer bears South 12 deg 08 min 25 sec West, 0.26 set, said point being the beginning of a non-inequent curve to the right having a realisus of 205.00 feet, a currat angle of 57 deg 56 min 54 sec, a chord bearing of South 60 deg 25 min 14 sec West, and a chord length of 198,61 feet;

Along said non-tangent curve to the right, an arc distance of 207.33 feet to a 1/2-inch iron rod with a plastic cap stamped "W.A.I" set for corner on said North right-of-way line of Jeter Road;

THENCE South 89 deg 23 min 19 sec West, along said North right-of-way line of said Jeter Road, a distance of 121.37 feet to a 1/2-inch iron rod with a plastic cap stamped "V.A.I." set for comer, said point being the beginning of a curve to the left having a radius of 2,909.79 feet, a central angle of 08 deg 15 min 15 sec, a chord bearing of South 85 deg 15 min 42 sec West, and a chord length of 418.83 feet

THENCE continuing along the North line of said Jeter Road and said curve to the left, an arc distance of 419.19 feet 1/2-inch iron rod with a plastic cap stamped "W.A.I" set for corner;

THENCE South 81 deg 08 min 04 sec West, continuing along the North line of said Jeter Road, a distance of 530.49 feet to a 508-anch iron rod found for comer, said point being the Southerly end of a corner clip at the intersection of the North line of said diveler flowed with the East line of said diveler flowed with the Sait line of said Motherlan Road;

THENCE North 49 deg 31 min 10 sec West, along said corner clip, a distance of 130.12 feet to the POINT OF

CONTAINING within these metes and bounds 924,486 square feet or 21.224 acres of land, more or less

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS

That Kroger Texas L.P., and A-S 114 Lantana Town Center, L.P., acting herein by and through its duly authorized That Knoper Texas L.P., and A.S. 114 Lantana Town Center, L.P., acting herein by and through its obly subtorized officers, do hereby adopt this past designating the herein above described property as DOPNSOP RETAIL CENTER ADDITION, an addition to the Town of Bantonville, Texas, and do hereby dedicate the essements shown thereon to Dentino County Fresh Water Supply District #7. The seasoments herein created are not exclusive, and Kroper Texas L.P., and A.S. 114 Lantana Town Center, L.P. hereby expressly reserve the right, for Itself and its successors and assigns, without the prior written consent of Dentino County Fresh Water Supply District #7, to use the essement areas in a manner and for such purposes which are not inconsistent with the terms of this grant (including, without limitation, the right to pave) (including outro) or Indexage over, across, upon and under any underground linear) and/or grant such other, smiller or distribute, essements, rights, benefits, rig

That the undersigned does hereby covenant and agree that he (they) shall construct upon the fire lane easements, as dedicated and shown hereon, a hard surface in accordance with the Town of Bartonville's paving standards for fire lanes, and tath the (they) shall maintain he same in a state of opod regain at all times and keep the same fine seat of clear of any structures, fences, trees, shrubs, or other improvements or obstruction, including but not limited to the parking of motor wholes, trailers, boats or other improvements or because the properties. The maintenance of pering on the fire lane easements is the responsibility of the owner, and the owner shall post and maintain appropriate signs in

ous places along such fire lanes, stating "Fire Lane, No Parking." The local law enforcement agency(s) is hereby authorized to enforce parking regulations within the fire lanes, and to cause such fire lanes and utility easements to be maintained free and unobstructed at all times for fire department and emergency use.

The undersigned does coverant and agree that the access easement may be utilized by any person or the general public for ingress and egress to other real property, and for the purpose of general public vehicular and pedestran use and access, and for the operations are demograncy use in, along, upon and across said premises, with the right and privilege at all times of the Town of Bartonville, its agents, employees, workmen and representatives having ingress, egress, and regress in, allong, upon and across said premises.

This plat approved subject to all platting ordinances, rules, regulations and resolutions of the Town of Bartonville, Texas. WITNESS, my hand, this the 21st day of January, 2015.

KROGER TEXAS L.P.

KRGP INC., An Optio corporation, its general partner

Rick ts. Landnum, Via President

STATE OF DHYD S

Before me, the undersigned authority, a Notary Public in and for the State of <u>Onto</u> on this day personally appeared. <u>Public January authors</u> on which are to be the person whose name is subscribed to the longer of the purpose and considerations therein the purpose and considerations therein the purpose and considerations therein the purpose and public publ

runder my hand and send of office. This 2 day of January. 2015.

Carrie A. Cortolillo 6/15/19

WITNESS, my hand, this the ____ day of

A-S 114 Lantana Town Center, L.P., an Texas limited partnership

A 114, L.C., Texas mitted lability company, its general partner Steven D. Alvis, Manager

STATE OF TEXAS COUNTY OF HARRIS

Before me, the undersigned authority, a Notary Public in and for the State of Toxas, on this day personally appeared Steven D. Alvis, Manager of A.S. 114, L.C., General Personer of A.S. 114, Lunatean Town Center, L.P., snown to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purpose and considerations therein expressed.

en unger my hand and spal of office, this 20 day of <u>lanaey</u> 2015. Notary Public in and fer the Stafe of Texas

THEREBA A. KRECMER
My Commission Expres

SURVEYOR'S CERTIFICATE

This is to certify that I, Leonard J. Lueker, a Registered Professional Land Surveyor of the State of Texas, have platted the above subdivision from an actual survey on the ground, and that this plat correctly represents that survey me or under my direction and supervision.

Dated this the 22 day of Leonard J. Lueker red Profe Texas Registration #

STATE OF TEXAS COUNTY OF DALLAS

Before me, a notary public, on this day personally appeared Leonard J. Lueker, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes an consideration therein expre

Given under my hand and seal of office, this 22 day of January, 2015.

Mm. Werins Edwards

6750 Hillcrest Plazz Orde, Suite 325 Dallas, Texas 75200

10-31-2019 My Commission Expires

ETIFICATE OF APPROVAL

Approved for preparation of final plat for the subdivision shown on this plat.

APPROVED BY: Planning and Zoning Commission

Townsof Bartonylille, Texas Signature of Chairman

APPROVED BY: Town Counc

Town of Bartenyille, Texas The

ATTEST

James DUN

C R.R. O., SHORT, MASTRACT No. 152, W MADANI X., ASTRACT No. 315, and Est Modula SHIVET, SHIRTACT NO. 62, MODULA SHIVET, TEXAS NEW OLD MASTRACT NO. NEW OLD STEAR PROPERTIES W. SAM HOUSTON PRRYMYN. N. SUITE 200 HOUSTON, TEXAS 77040.

FINAL PLAT
DCFWSD#7 RETAIL
CENTER ADDITION
LOTS 1-9, BLOCK A

Winkelmann
& Associates, Inc.
cocourse ever breaking and an analysis and an

SUITE 200

8827 W. S

Cale :

SHEET 3 OF 3

NOTICE: Selling a portion of this addition by metes and bounds is a violation of Town ordinance and State law, and is subject to fines and/or withholding of utilities and building permits.

FINAL PLAT DCFWSD#7 RETAIL CENTER ADDITION LOTS 1-9. BLOCK A

DENTON COUNTY, TEXAS
21.224. ACRES OUT OF THE B. B. B. & C. R.R. CO. SURVEY, ABSTRACT NO. 152, THE W.
MCDANIEL SURVEY, ABSTRACT NO. 365 AND THE E. P. HOLMAN SURVEY, ABSTRACT NO. 645

OWNER: A-S 114 LANTANA TOWN CENTER, L.P. OWNER: KROGER TEXAS L.P. 1331 E. AIRPORT FREEWAY IRVING, TEXAS 75062

ENGINEER / SURVEYOR: WINKELMANN & ASSOCIATES, INC. 6750 HILLCREST PLAZA DRIVE, SUITE 325 DALLAS, TEXAS 75230

Filed for Record in the official records of: Deston County On: Jan 27:2015 at 83:13P Plat Records

OCFMSD#7 RETAIL CENTER ADDITION
Occ Humber: 2015- 29
to of Pases: 3 150.00 Receipt Number - 1247013 Carmen Robinson

- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THESE PLANS, THE DENTON COUNTY FRESH WATER SUPPLY DISTRICT #6 AND #7 STANDARDS AND NCTCOG STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS
- CONTRACTOR SHALL CONTACT ALL FRANCHISE UTILITY COMPANIES TO HAVE THEM LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION AND DEPTH OF ALL FRANCHISE UTILITY SERVICES AND ANY REQUIRED RELOCATION AND/OR EXTENSIONS. SERVICES SHOWN ON THE PLANS ARE CONCEPTUAL.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING RELOCATION AND INSTALLATION OF FRANCHISE UTILITIES NECESSARY FOR ON AND OFF SITE CONSTRUCTION.
- BRACING OF UTILITY POLES MAY BE REQUIRED BY UTILITY COMPANIES WHEN TRENCHING OR EXCAVATION IS IN CLOSE PROXIMITY TO THE POLES. THE COST OF BRACING POLES WILL BE BORNE BY THE CONTRACTOR. THERE IS NO SEPARATE PAY ITEM FOR THIS WORK. THE COST IS INCIDENTAL TO THE VARIOUS PAY ITEMS FOR INSTALLATION OF PIPE.
- THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE UTILITY COMPANY RECORDS AND PLANS AND ARE CONSIDERED APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ADJACENT AND/OR CONFLICTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION IN ORDER THAT ADJUSTMENTS CAN BE MADE TO PROVIDE ADEQUATE CLEARANCES. THE CONTRACTOR SHALL PRESERVE AND PROTECT PUBLIC AND PRIVATE UTILITIES AT ALL TIMES DURING CONSTRUCTION. ANY DAMAGE TO UTILITIES RESULTING FROM CONTRACTOR'S OPERATIONS SHALL BE RESTORED AT THEIR EXPENSE. THE ENGINEER SHALL BE NOTIFIED WHEN PROPOSED FACILITY GRADES CONFLICT WITH EXISTING UTILITY GRADES.
- 7. CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND POWER LINES.
- THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS SHOWN ON THE PLANS AND REVIEW ALL FIELD CONDITIONS, INCLUDING EXISTING GRADES AND UTILITY FLOW LINES, AND SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH CONSTRUCTION.
- THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY PHYSICAL DAMAGE TO PRIVATE PROPERTY. INCLUDING, BUT NOT LIMITED TO FENCES, WALLS, PAVEMENT, GRASS, TREES, LAWN SPRINKLER AND IRRIGATION SYSTEMS AT NO COST TO THE OWNER. THIS WORK SHALL BE SUBSIDIARY TO THE CONTRACT (UNLESS OTHERWISE NOTED) AND IS NOT A SEPARATE PAY ITEM.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS AND APPROVALS PRIOR TO CONSTRUCTION.
- 11. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE APPROVED CONTRACT DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, EROSION CONTROL PLANS, SWPPP AND INSPECTION REPORTS.
- 12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN NEAT AND ACCURATE CONSTRUCTION RECORD PLANS.
- 13. CONNECTIONS TO EXISTING FACILITIES SHALL BE ACCOMPLISHED IN A NEAT AND PROFESSIONAL MANNER. WHEN FIELD CONDITIONS INDICATE ANY VARIANCE FROM DETAILED METHODS, THE CONTRACTOR SHALL PROVIDE COMPREHENSIVE AND DETAILED DRAWINGS (FOR
- 14. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER AND ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
- 15. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER AND DESIGN ENGINEER OF RECORD DIRECTLY FROM THE TESTING AGENCY.
- 16. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, JURISDICTIONAL AGENCIES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO THE FINAL CONNECTION OF SERVICES.
- 17. CONTRACTOR SHALL VERIFY BENCHMARKS AND DATUM PRIOR TO COMMENCING CONSTRUCTION OR STAKING OF IMPROVEMENTS.
- 18. ALL HORIZONTAL DIMENSIONS GIVEN ARE TO FACE OF CURB AND TO PIPE CENTERLINES, UNLESS OTHERWISE NOTED ON PLANS
- 19. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING. CONSTRUCTION STAKING SHALL BE PERFORMED BY A

REGISTERED PUBLIC SURVEYOR IN THE STATE OF TEXAS.

CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

- 20. THE CONTRACTOR SHALL TOPSOIL, SEED AND FERTILIZE ALL AREAS DISTURBED BY CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE WHATEVER MEASURES ARE NEEDED INCLUDING TEMPORARY IRRIGATION TO ENSURE FULL COVERAGE OF GRASSING. UNLESS OTHERWISE NOTED, PRIVATE LAWN AREAS AND PARKWAYS IN FRONT OF PRIVATE LAWN AREAS DISTURBED BY CONSTRUCTION SHALL BE REPLACED WITH BLOCK SOD OF A SIMILAR GRASS TO THAT EXISTING. ALL SEEDED OR SODDED AREAS SHALL RECEIVE SIX(6) INCHES OF TOPSOIL. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE
- 21. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH. THE AREAS SHALL THEN BE SEEDED, IRRIGATED, AND STABILIZED AS SPECIFIED IN THE PLANS, AND MAINTAINED UNTIL SOIL IS STABILIZED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EARTHEN AREAS WILL BE STABILIZED AND MULCHED AS SHOWN ON THE LANDSCAPE, GRADING, AND EROSION CONTROL PLANS.
- 22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
- 23. SOD MUST BE INSTALLED AND MAINTAINED ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES.
- 24. CONTRACTOR IS TO CONSTRUCT A STABILIZED CONSTRUCTION EXIT AT ALL PRIMARY POINTS OF ACCESS. THIS STABILIZED EXIT SHALL BE CONSTRUCTED PER N.C.T.O.N.G STANDARDS.
- 25. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE SWPPP MUST BE MADE READILY AVAILABLE AT THE TIME OF AN ON-SITE INSPECTION TO: THE EXECUTIVE DIRECTOR: A FEDERAL, STATE, OR LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, GRADING PLANS, OR STORMWATER MANAGEMENT PLANS; LOCAL GOVERNMENT OFFICIALS: AND THE OPERATOR OF A MUNICIPAL SEPARATE STORM SEWER (MS4) RECEIVING DISCHARGES FROM THE SITE.
- 26. ANY ENTITY THAT MEETS THE DEFINITION OF A "PRIMARY OPERATOR" FOR A LARGE CONSTRUCTION ACTIVITY (FIVE OR MORE ACRES) SHALL BE RESPONSIBLE FOR COMPLETING AND SUBMITTING A NOTICE OF INTENT (NOI) AND A NOTICE OF TERMINATION (NOT) WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ).
- 27. THE CONTRACTOR MUST CONSTRUCT AND MAINTAIN A PERMANENT STABLE PROTECTIVE COVER (GRASS) FOR EROSION AND SEDIMENT CONTROL ON ALL LAND SURFACES EXPOSED OR DISTURBED BY CONSTRUCTION OF THE PERMITTED PROJECT. THE PROTECTIVE COVER MUST BE INSTALLED WITHIN FOURTEEN DAYS AFTER FINAL GRADING OF THE AFFECTED LAND SURFACE. A PERMANENT STABLE COVER MUST BE ESTABLISHED WITHIN 60 DAYS OF IT'S INSTALLATION.
- 28. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL PROVIDE AS-BUILT PLANS IDENTIFYING ALL DEVIATIONS OR VARIATIONS OF ORIGINAL PLANS. AS-BUILT PLANS ARE SUBSIDIARY TO ALL OTHER BID ITEMS AND SHALL NOT BE PAID FOR AS A SEPARATE LINE ITEM.
- 29. DURING CONSTRUCTION, ALL MATERIAL TESTING SHALL BE COORDINATED WITH THE CITY OF BARTONVILLE CONSTRUCTION INSPECTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE CITY STANDARD SPECIFICATIONS. ALL SOILS TESTING IS THE RESPONSIBILITY OF AND WILL BE PAID FOR BY THE CONTRACTOR. MATERIAL TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY.
- 30. ALL EXISTING TRAFFIC AND STREET SIGNS DISTURBED SHALL BE REINSTALLED WHERE APPLICABLE BY THE CONTRACTOR.
- 31. ALL EXISTING SHRUBS, TREES, PLANTING, AND OTHER VEGETATION, OUTSIDE OF PROPERTY LIMITS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH EQUIVALENT MATERIAL BY THE CONTRACTOR AT NO ADDITIONAL COST.
- 32. THE CONTRACTOR SHALL SALVAGE AND PROTECT ALL EXISTING POWER POLES, SIGNS, MANHOLES, TELEPHONE RISERS, WATER VALVES, ETC. DURING ALL CONSTRUCTION PHASES.
- 33. CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL SILT AND DEBRIS OFFSITE FROM THE EXISTING ROADWAYS AND PROJECT SITE THAT ARE A RESULT OF THE PROPOSED CONSTRUCTION AS REQUESTED BY THE CITY OF BARTONVILLE AND THE LANTANA WATER DISTRICT. AT A MINIMUM, THIS TASK SHOULD OCCUR ONCE A WEEK.
- 34. WATER SHALL NOT BE PERMITTED IN OPEN TRENCHES DURING CONSTRUCTION.
- 35. CONTRACTOR SHALL CONTACT THE DESIGNATED CONSTRUCTION INSPECTOR ASSIGNED TO THIS PROJECT AT LEAST 48 HOURS PRIOR TO STARTING CONSTRUCTION.
- 36. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A TRENCH SAFETY PLAN TO THE CITY OF BARTONVILLE AT THE TIME OF THE PRECONSTRUCTION MEETING, OR PRIOR TO BEGINNING CONSTRUCTION OF THESE IMPROVEMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY STANDARDS, TEXAS STATE LAW, AND O.S.H.A. STANDARDS FOR ALL EXCAVATION IN EXCESS OF FIVE FEET IN DEPTH. NO OPEN TRENCHES WILL BE ALLOWED OVERNIGHT WITHOUT THE PRIOR SPECIFIC WRITTEN APPROVAL OF THE CITY OF BARTONVILLE, OR DESIGNATED REPRESENTATIVE. ONSITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 37. CONTRACTOR TO REVIEW DESIGN INTENT OF THESE PLANS AND SUBMIT REQUESTS-FOR-INFORMATION IN A TIMELY MANNER PRIOR TO COMMENCING THAT WORK.
- 38. ALL APPURTENANCES INSTALLED IN PAVEMENT AREAS SHALL BE ADJUSTED AS REQUIRED TO BE FLUSH WITH FINISHED PAVEMENT.
- 39. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR COMPLETING AND IMPLEMENTING TRAFFIC CONTROL PLAN.

PAVING & STRIPING NOTES

- 1. ALL CONSTRUCTION SHALL BE IN GENERAL ACCORDANCE WITH THESE PLANS, CITY OF BARTONVILLE, TX AND LANTANA WATER DISTRICT STANDARD SPECIFICATIONS, THE FINAL GEOTECHNICAL REPORT AND COMMONLY ACCEPTED CONSTRUCTION STANDARDS.
- 2. TESTING OF MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE PAVING IMPROVEMENTS SHALL BE PERFORMED BY AN APPROVED AGENCY FOR TESTING MATERIALS. THE NOMINATION OF THE TESTING LABORATORY AND THE PAVEMENT OF SUCH TESTING SERVICES SHALL BE MADE BY THE CONTRACTOR. THE OWNER SHALL APPROVE THE LABORATORY NOMINATED TO DO THE TESTING OF MATERIALS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SHOW BY STANDARD TESTING PROCEDURES THAT THE WORK CONSTRUCTED DOES MEET THE REQUIREMENTS OF THE CITY'S SPECIFICATIONS AND THESE PLANS.
- 3. BARRIER FREE RAMPS SHALL BE CONSTRUCTED AT ALL DRIVEWAY APPROACHES PER CITY STANDARDS.
- 4. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- 5. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR FIRE LANES, PARKING STALLS, HANDICAPPED PARKING SYMBOLS, AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AND AROUND BUILDING AS SHOWN ON THE PLANS. ALL PAINT FOR PAVEMENT MARKINGS SHALL ADHERE TO SECTION 2.9 OF THE N.C.T.C.O.G. STANDARD SPECIFICATIONS UNDER "TRAFFIC PAINT".
- REFER TO GEOTECHNICAL REPORT FOR PAVING JOINT LAYOUT PLAN.
- REFER TO GEOTECHNICAL REPORT FOR REINFORCEMENT STEEL
- 8. REFER TO GEOTECHNICAL REPORT FOR SOIL COMPACTION SPECIFICATION.
- 9. FIRE LANES SHALL BE DESIGNATED BY CONTINUOUS PAINTED LINES FOUR (4) INCHES IN WIDTH ON EACH SIDE OF THE FIRE LANE STARTING AT THE ENTRANCE FROM THE STREET AND TO BE CONTINUED TO THE EXIT. SUCH LINES SHALL BE BRIGHT RED IN COLOR.
- 10. FIRE LANES ADJACENT TO CURBS SHALL BE OUTLINED BY A FOUR (4) INCH WIDE STRIP PAINTED BRIGHT RED IN COLOR ALONG THE CURB'S GUTTER LINE.
- 11. THE WORDS "FIRE LANE" AND "NO PARKING" SHALL BE STENCILED IN FOUR (4) INCH HIGH WHITE LETTERS ALTERNATELY EVERY FIFTEEN (15) FEET ALONG THE RED FIRE LANE STRIPES.
- 12. ALL HANDICAP RAMPING, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT THAT IS MOST CURRENT.
- 13. REFERENCE LANDSCAPE PLANS FOR LOCATION AND TYPE OF HANDICAP RAMPS TO BE PROVIDED AND FOR
- 14. CONTRACTOR RESPONSIBLE FOR PREPARATION, SUBMITTAL, AND APPROVAL BY CITY OF BARTONVILLE, TX OF TRAFFIC CONTROL PLAN PRIOR TO START OF CONSTRUCTION.
- 15. SIDEWALKS ADJACENT TO CURB SHALL BE CONNECTED TO BACK OF CURB USING LONGITUDINAL BUTT JOINT
- 16. UNLESS THE PLANS SPECIFICALLY DICTATE TO THE CONTRARY, ON-SITE AND OTHER DIRECTIONAL SIGNS SHALL BE LOCATED OUT OF THE PEDESTRIAN AND AUTOMOBILE ROUTES AND SHALL BE LOCATED BETWEEN THREE TO FIVE FEET BEHIND THE NEAREST BACK OF CURB. SIGN HEIGHT, LOCATION, AND STRUCTURE SHALL BE SUCH THAT THE SIGNS POSE NO THREAT TO PUBLIC SAFETY.
- 17. UNLESS THE PLANS SPECIFICALLY DICTATE TO THE CONTRARY, ON-SITE AND OTHER DIRECTIONAL SIGNS SHALL BE ORIENTED SO THEY ARE READILY VISIBLE TO THE ONCOMING TRAFFIC FOR WHICH THEY ARE INTENDED, FIELD ADJUSTMENTS OF LOCATION AND ORIENTATION OF THE SIGNS ARE TO BE MADE TO ACCOMPLISH THIS.
- 18. THE CONTRACTOR FOR THE PROJECT SHALL NOT PLACE ANY PERMANENT PAVEMENT UNTIL ALL SLEEVING FOR ELECTRIC, GAS, TELEPHONE, CABLE TV, SITE IRRIGATION, OR ANY OTHER UNDERGROUND UTILITY HAS BEEN INSTALLED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THAT ALL SLEEVING IS IN PLACE PRIOR TO PLACEMENT OF PERMANENT PAVEMENT.
- 19. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE HANDICAPPED ROUTES (PER A.D.A. & T.A.S) EXIST TO AND FROM EVERY DOOR. IN NO CASE SHALL HANDICAP RAMP SLOPES EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPES EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPES EXCEED 5.0 PERCENT. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR A.D.A. AND T.A.S. COMPLIANCE ISSUES.
- 20. CONTRACTOR TO INSTALL CONSTRUCTION JOINTS IN CONCRETE PAVEMENT AT ALL PC'S AND AS CONVENIENT TO PHASING OF POURS, WITH EXPANSION JOINTS EVERY 150 FEET IN BOTH DIRECTIONS AND SAWED DUMMY JOINTS EVERY 15 FEET IN BOTH DIRECTIONS.
- 21. FIRE LANES SHALL REMAIN OPEN/ACCESSIBLE AT ALL TIMES DURING CONSTRUCTION; FIRE LANE SHALL BE INSTALLED & ACCEPTED BY THE CITY PRIOR TO ANY CONSTRUCTION ABOVE THE FOUNDATION.

22. ALL CONCRETE FOR PAVING SHALL BE AIR ENTRAINED WITH A TOTAL AIR CONTENT OF 4.5% PLUS OR MINUS 1.5%.

GRADING NOTES

- 1. ALL CONSTRUCTION SHALL BE IN GENERAL ACCORDANCE WITH THESE PLANS, LANTANA WATER DISTRICT, N.C.T.C.O.G. STANDARD SPECIFICATIONS, THE FINAL GEOTECHNICAL REPORT, AND COMMONLY ACCEPTED CONSTRUCTION STANDARDS.
- 2. UNLESS OTHERWISE NOTED, PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN IN PAVED AREAS REFLECT TOP OF PAVEMENT SURFACE. ADD .50' TO PAVING GRADE FOR TOP OF CURB GRADE. THE LIMITS OF EARTHWORK IN PAVED AREAS IS THE BOTTOM OF PAVEMENT.
- THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE SILT FENCES (OR OTHER METHODS APPROVED BY THE ENGINEER AND CITY) AS REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL EROSION, CONSERVATION, AND SILTATION REQUIREMENTS. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF A STAND OF GRASS OR OTHER GROWTH TO PREVENT EROSION. CONTRACTOR IS RESPONSIBLE FOR FILING N.O.I. AND N.O.T. WITH THE TCEQ. CONTRACTOR SOLELY RESPONSIBLE FOR ALL MANDATED SWPPP RECORD KEEPING AND REPORTING.
- 4. ALL EXCAVATING IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED. UNUSABLE EXCAVATED MATERIAL AND ALL WASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF SITE BY THE GRADING CONTRACTOR AT HIS EXPENSE.
- 5. BEFORE ANY EARTHWORK IS PERFORMED, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF PAVEMENT AND OTHER ITEMS ESTABLISHED BY THE PLANS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.
- 6. REFERENCE STRUCTURAL DRAWINGS AND SPECIFICATIONS AND GEOTECHNICAL REPORT FOR BUILDING PAD AND PAVING SUBGRADE INFORMATION.
- 7. THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE PROJECT GEOTECHNICAL ENGINEER'S SPECIFICATIONS. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
- 8. GRADING CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES FOR ANY REQUIRED UTILITY ADJUSTMENTS AND/OR RELOCATIONS.
- 9. TESTING OF MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE PAVING IMPROVEMENTS SHALL BE PERFORMED BY AN APPROVED AGENCY FOR TESTING MATERIALS. THE NOMINATION OF THE TESTING LABORATORY AND THE PAYMENTS FOR SUCH TESTING SERVICES SHALL BE MADE BY THE CONTRACTOR. THE OWNER SHALL APPROVE THE LABORATORY NOMINATED TO DO THE TESTING OF MATERIALS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SHOW BY STANDARD TESTING PROCEDURES THAT THE WORK CONSTRUCTED DOES MEET THE REQUIREMENTS OF THE CITY'S SPECIFICATIONS AND THESE PLANS.
- 10. PROPOSED CONTOURS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND DESIGNATED GRADIENT ARE TO BE USED IN CASE OF DISCREPANCY.
- 11. REFER TO SITE PLAN AND/OR DIMENSION CONTROL PLAN AND FINAL PLAT FOR HORIZONTAL DIMENSIONS.
- 12. REFER TO EROSION CONTROL PLAN FOR EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
- REPRESENTATIVE. EXISTING TREES SHALL BE PRESERVED WHENEVER POSSIBLE.

13. NO TREE SHALL BE REMOVED OR DAMAGED WITHOUT PRIOR AUTHORIZATION OF THE OWNER OR OWNER'S

14. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL CONTROL PRIOR TO COMMENCING CONSTRUCTION

AND SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BEFORE CONSTRUCTION COMMENCES.

15. AFTER PLACEMENT OF SUBGRADE AND PRIOR TO PLACEMENT OF PAVEMENT, CONTRACTOR SHALL TEST AND OBSERVE PAVEMENT AREAS FOR EVIDENCE OF PONDING. ALL AREAS SHALL ADEQUATELY DRAIN TOWARDS THE INTENDED STRUCTURE TO CONVEY STORM RUNOFF. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND ENGINEER IF ANY DISCREPANCIES ARE DISCOVERED.

STORM SEWER NOTES

- THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AND SHALL NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION. IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN
- 2. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF CURB INLETS AND GRATE INLETS AND ALL UTILITIES CROSSING THE STORM SEWER.
- THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE STORM SEWER.
- 4. THE INSPECTOR SHALL INSPECT ALL "PUBLIC" CONSTRUCTION. THE CONTRACTOR'S BID PRICE
- 5. ALL PVC TO RCP CONNECTIONS SHALL BE CONSTRUCTED WITH CONCRETE COLLARS.

SHALL INCLUDE ALL INSPECTION FEES.

- 6. ALL OFFSITE STORM SEWER LINES SHALL BE MINIMUM CLASS III RCP. ONSITE STORM SEWER LINES 18" AND GREATER MAY BE CLASS III RCP. ALL PRIVATE STORM SHALL BE NOTED AS ON PLANS. CONTRACTOR TO CONTACT ENGINEER WITH QUESTIONS ABOUT PIPE MATERIAL PRIOR TO ORDERING. IF USING HDPE, CONTRACTOR SHALL SUBMIT TECHNICAL DATA TO PROJECT ENGINEER AND CITY ENGINEER FOR APPROVAL PRIOR TO ORDERING MATERIAL.
- 7. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION FOR NORTH CENTRAL TEXAS, LATEST EDITION, AND ANY SPECIAL PROVISION AS APPROVED BY THE CITY OF BARTONVILLE, TX.
- 8. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING FOR ALL STORM SEWER LINES AND OTHER UTILITIES.
- EMBEDMENT FOR ALL ONSITE SEWER LINES, PUBLIC OR PRIVATE, SHALL BE PER N.C.T.C.O.G. STANDARD DETAILS.
- 10. REFER TO TCEQ DESIGN GUIDELINES (CHAPTER 290) FOR ALL UTILITY CROSSINGS.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND IMPLEMENTING A TRENCH PROTECTION PLAN FOR ALL OPEN TRENCH EXCAVATION.
- 12. USE 4 FOOT JOINTS WITH BEVELED ENDS IF RADIUS OF STORM SEWER IS LESS THAN 100 FEET
- 13. ALL PRIVATE LANDSCAPE AREA DRAINS SHALL BE OF MATERIAL APPROVED BY BOTH ENGINEER AND LANDSCAPE ARCHITECT.

WATER AND SANITARY SEWER NOTES

- 1. ALL MATERIALS AND WORKMANSHIP TO CONFORM TO THE N.C.T.C.O.G. STANDARDS AND DETAILS.
- 2. WATER MAINS SHALL BE PVC C-900 DR 14, EXCEPT WHEN OTHERWISE NOTED.
- 3. SEWER PIPE SHALL BE MINIMUM SDR 35 PVC OR ULTRA RIB PVC SDR 26.
- 4. WATER MAINS SHALL HAVE THE FOLLOWING MINIMUM COVER BELOW STREET GRADES: <u>COVER</u> 4.0' 4.0'

AS SHOWN ON PLANS

- PLASTIC TAPE FOR UTILITY SERVICES SHALL BE ATTACHED TO THE ENDS OF ALL WATER AND SEWER SERVICE LINES AND EXTEND ABOVE GROUND LEVEL. THE TAPE SHALL MEET THE FOLLOWING SPECIFICATION:
- A. "NCTCOG MARKING TAPE" OR APPROVED EQUAL. B. ROLL MARKED CONTINUOUSLY, "CAUTION WATER LINE" OR "CAUTION SEWER LINE".
- C. SIX (6) INCHES IN WIDTH. D. RED TAPE FOR SEWER SERVICES. E. BLUE TAPE FOR WATER SERVICES.
- IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY EXACT LOCATIONS OF EXISTING PUBLIC AND PRIVATE UTILITIES AND SERVICES PRIOR TO COMMENCING CONSTRUCTION. THE
- CONTRACTOR SHALL CALL 811 FOR FIELD LOCATION OF EXISTING UTILITIES. CALL AT LEAST 48 HOURS BEFORE LOCATIONS ARE NEEDED. NOTE THAT THE DIG TESS SERVICE DOES NOT LOCATE ALL UTILITIES, ONLY THOSE REGISTERED WITH THE SERVICE.
- REFER TO SITE GRADING PLANS, PAVING PLANS, AND LANDSCAPE PLANS FOR FINAL GRADES FOR DETERMINING PROPOSED MANHOLE RIM ELEVATIONS.
- 8. LOCATIONS AND SIZES OF EXISTING PUBLIC AND PRIVATE UTILITIES SHOWN ON THESE PLANS ARE FROM CITY AND UTILITY COMPANY RECORDS ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR LOCATING ALL UTILITIES AND FOR DAMAGES RESULTING FROM FAILURE TO DO SO.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING "RECORD" PLANS TO THE ENGINEER

- SHOWING THE LOCATION OF WATER AND SEWER SERVICES AND ANY DEVIATIONS FROM PLANS MADE DURING CONSTRUCTION. 10. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN, COORDINATING THE HORIZONTAL AND
- VERTICAL LOCATION OF ALL UTILITY SERVICES ENTERING THE BUILDING AND/OR CROSSING OTHER
- 11. ALL WATER AND SANITARY SEWER SERVICES SHALL TERMINATE FIVE (5) FEET OUTSIDE THE BUILDING, UNLESS NOTED OTHERWISE.
- 12. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE UTILITIES. ALL PUBLIC PIPE, STRUCTURES, AND FITTINGS SHALL BE INSPECTED BY THE CITY INSPECTOR PRIOR TO BEING COVERED. THE INSPECTOR MUST ALSO BE PRESENT DURING DISINFECTION AND PRESSURE TESTING OF ALL MAINS. THE CONTRACTOR'S BID PRICE SHALL INCLUDE ALL INSPECTION FEES.
- 13. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITE TRENCH SAFETY DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A TRENCH EXCAVATION PROTECTION PLAN, SEALED BY A GEOTECHNICAL ENGINEER REGISTERED IN THE STATE OF TEXAS, FOR ALL TRENCHES DEEPER THAN FIVE (5) FEET.
- 14. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING FOR ALL WATER AND SANITARY SEWER LINES AND OTHER UTILITIES.
- 15. REFER TO TCEQ DESIGN GUIDELINES (CHAPTER 290) FOR ALL UTILITY CROSSINGS.
- 16. CONTRACTOR TO SEQUENCE CONSTRUCTION AS TO AVOID INTERRUPTION OF WATER OR SANITARY SEWER SERVICE TO SURROUNDING AREAS.
- 17. EXISTING MANHOLE TOPS, VALVE BOXES, ETC. ARE TO BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES.
- 18. FIRE HYDRANTS SHALL BE LOCATED A MINIMUM OF TWO (3) FEET AND A MAXIMUM OF SIX (6) FEET BEHIND THE CURB LINE OF FIRE LANE AND STREET. ALL FIRE HYDRANTS SHALL BE MUELLER
- 19. ANY WATER OR SANITARY SEWER SERVICE LOCATED OUTSIDE OF A STREET, ALLEY OR EASEMENT SHALL BE INSTALLED BY A PLUMBER AND BE INSPECTED BY A LANTANA PLUMBING INSPECTOR.

ANY DISCREPANCIES BETWEEN THE GENERAL NOTES ON THIS SHEET AND THE CITIES GENERAL NOTES, SPECIFICATIONS OR STANDARD DETAILS SHALL BE WHICHEVER IS MORE RESTRICTIVE AS DETERMINED BY THE CITY INSPECTOR.

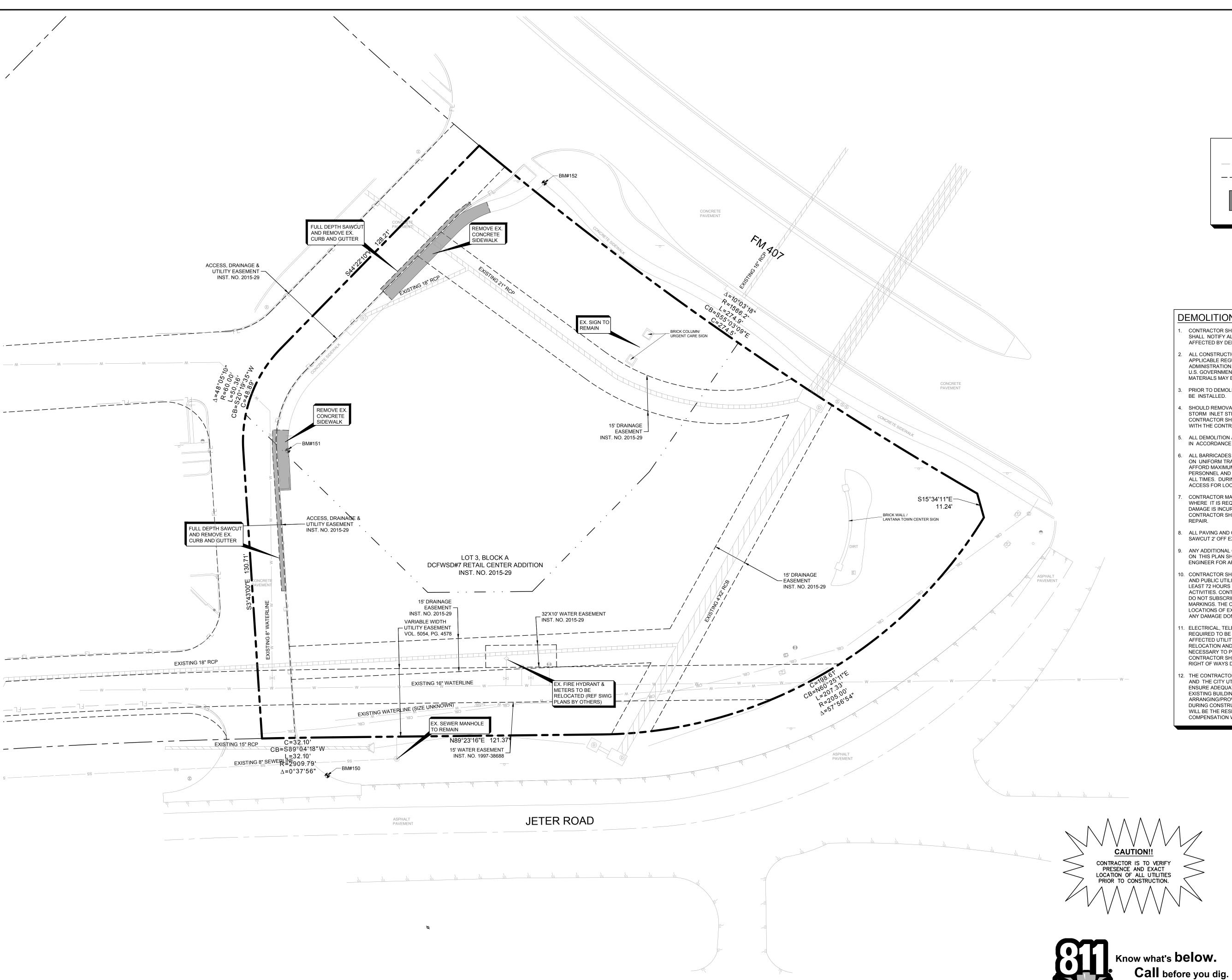
(940) 321-7800 CONTACT: KEVITT VALLEY ASTOUND CONTACT: MARIO PRIBADI (214) 618-5544 FRONTIFR CONTACT: TERI WENTWORTH (214) 701-1658 COSERV GAS (940) 321-7800 CONTACT: AFTON REEVES

UTILITY CONTACTS

COSERV ELECTRIC

PRELIMINARY

Kimley»Horn





— — 527 — — EXISTING CONTOUR

— — — — — FULL DEPTH SAWCUT

EXISTING PAVEMENT TO BE REMOVED

DEMOLITION NOTES

- CONTRACTOR SHALL SECURE ALL PERMITS REQUIRED FOR DEMOLITION AND SHALL NOTIFY ALL RESPECTIVE GOVERNMENTAL AND UTILITY AGENCIES AFFECTED BY DEMOLITION PRIOR TO STARTING DEMOLITION.
- ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION. COPIES OF OSHA STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT PRINTING OFFICE. INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA.
- PRIOR TO DEMOLITION, PROPER PHASING OF EROSION CONTROL DEVICES ARE TO
- SHOULD REMOVAL AND/OR RELOCATION ACTIVITIES DAMAGE FENCING, LIGHTING, STORM INLET STRUCTURES OR ANY OTHER APPURTENANCE, THEN THE CONTRACTOR SHALL PROVIDE NEW MATERIALS/STRUCTURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- ALL DEMOLITION AND CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
- ALL BARRICADES AND WARNING SIGNS SHALL CONFORM TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND ARE GENERALLY LOCATED TO AFFORD MAXIMUM PROTECTION TO THE PUBLIC AS WELL AS CONSTRUCTION PERSONNEL AND EQUIPMENT AND TO ASSURE AN EXPEDITIOUS TRAFFIC FLOW AT ALL TIMES. DURING THE PROGRESS OF WORK, THE CONTRACTOR SHALL PROVIDE ACCESS FOR LOCAL TRAFFIC.
- CONTRACTOR MAY LIMIT SAW CUT & PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THE CONSTRUCTION PLANS, BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL, REPLACEMENT, AND/OR
- ALL PAVING AND CURB TO BE REMOVED ARE TO BE REMOVED USING FULL-DEPTH SAWCUT 2' OFF EXISTING BACK OF CURB.
- ANY ADDITIONAL CONCRETE PAVING, FOOTINGS OR STRUCTURES NOT IDENTIFIED ON THIS PLAN SHALL BE LOCATED BY CONTRACTOR AND SUBMITTED TO ENGINEER FOR APPROVAL.
- 0. CONTRACTOR SHALL EXERCISE EXTREME CAUTION AS SITE CONTAINS PRIVATE AND PUBLIC UTILITIES. CONTRACTOR SHALL CALL 811 "CALL BEFORE YOU DIG" AT LEAST 72 HOURS PRIOR TO COMMENCING DEMOLITION OR CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL CONTACT ANY OTHER UTILITY COMPANIES WHO DO NOT SUBSCRIBE TO THE 811 "CALL BEFORE YOU DIG" PROGRAM FOR LINE MARKINGS. THE CONTRACTOR BEARS SOLE RESPONSIBILITY FOR VERIFYING LOCATIONS OF EXISTING UTILITIES, SHOWN OR NOT SHOWN, AND FOR REPAIRING ANY DAMAGE DONE TO THESE FACILITIES.
- . ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE, AND GAS LINES REQUIRED TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN ROAD RIGHT OF WAYS DURING CONSTRUCTION.
- 2. THE CONTRACTOR SHALL COORDINATE WATER MAIN WORK WITH THE FIRE DEPT. AND THE CITY UTILITY DEPT. TO PLAN PROPOSED IMPROVEMENTS AND TO ENSURE ADEQUATE FIRE PROTECTION IS CONSTANTLY AVAILABLE TO THE EXISTING BUILDING. CONTRACTOR WILL BE RESPONSIBLE FOR ARRANGING/PROVIDING ANY REQUIRED WATER MAIN SHUT OFFS WITH THE CITY DURING CONSTRUCTION. ANY COSTS ASSOCIATED WITH WATER MAIN SHUT OFFS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION WILL BE PROVIDED.

BENCH MARK LIST

The bearing system for this survey is based on the Texas Coordinate System of 1983, North Central Zone 4202 with an applied combined scale factor of 1.00015063, based on observations made on September 21, 2023.

BM#150 - AN "+" CUT WITH BOX SET IN CONCRTE DRIVEWAY AT

THE INTERSECTION OF JETER ROAD AN THE ENTRANCE TO COMMUNITY MED URGENT CARE, 102'± SOUTHEAST OF THE SOUTHEAST CORNER OF THE COMMUNITY MED URGENT CARE BUILDING, AND 32' SOUTHWEST OF A SANITARY SEWER MANHOLE.

ELEV: 667.69

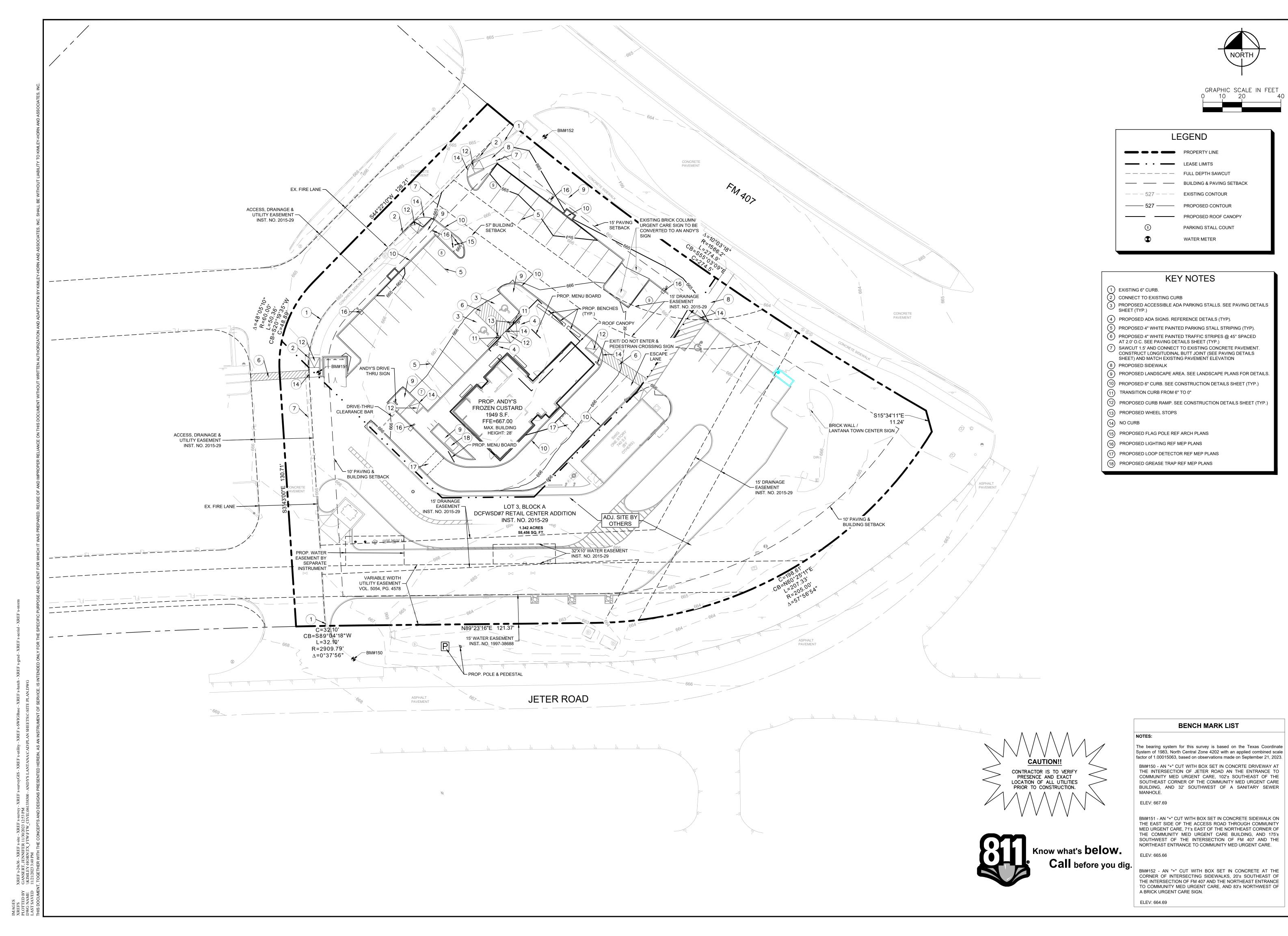
BM#151 - AN "+" CUT WITH BOX SET IN CONCRETE SIDEWALK ON THE EAST SIDE OF THE ACCESS ROAD THROUGH COMMUNITY MED URGENT CARE, 71'± EAST OF THE NORTHEAST CORNER OF THE COMMUNITY MED URGENT CARE BUILDING, AND 175'± SOUTHWEST OF THE INTERSECTION OF FM 407 AND THE NORTHEAST ENTRANCE TO COMMUNITY MED URGENT CARE.

ELEV: 665.66

BM#152 - AN "+" CUT WITH BOX SET IN CONCRETE AT THE CORNER OF INTERSECTING SIDEWALKS, 20'± SOUTHEAST OF THE INTERSECTION OF FM 407 AND THE NORTHEAST ENTRANCE TO COMMUNITY MED URGENT CARE, AND 83'± NORTHWEST OF A BRICK URGENT CARE SIGN.

ELEV: 664.69

PRELIMINARY FOR REVIEW ONLY for construction or permit purposes **Kimley Morn** Engineer JENNIFER G. GANSERT, P.E. P.E. No. 124908 Date 11/17/2023



No. REVISIONS

SRY ST, UNIT 11, SUITE 1300

FOR REVIEW ONLY
Not for construction or permit purposes.

Kimley >>> Horn
Engineer_JENNIFER G. GANSERT, P.E.

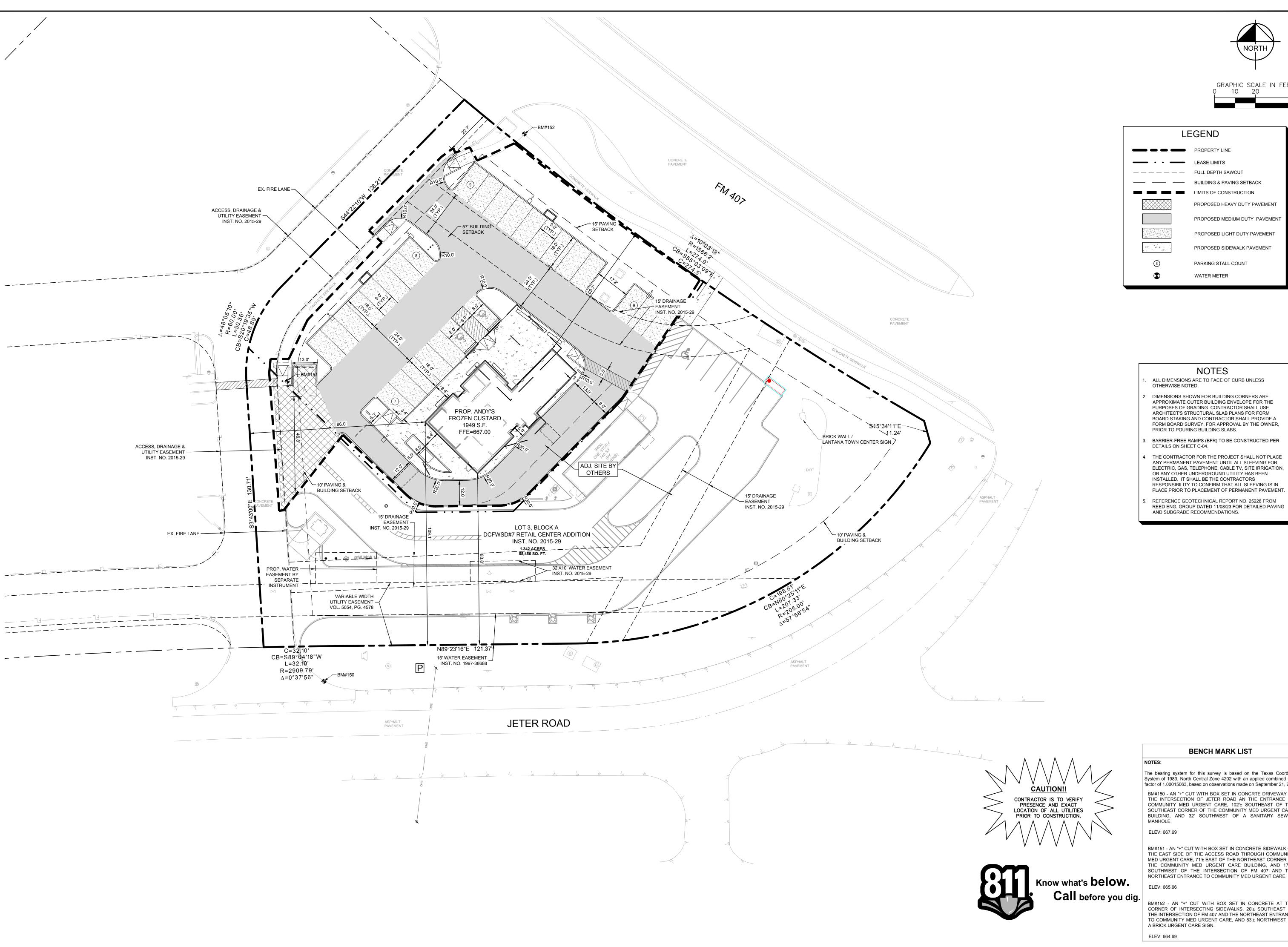
Engineer JENNIFER G. GANSERT. P.E. P.E. No. 124908 Date 11/17/2023

DATE: NOV. 2023
SCALE: AS SHOWN
DESIGNED BY: EGB

ANDY'S LANTAN

ITE PLAN

SITE PI



PRELIMINARY FOR REVIEW ONLY for construction or permit purposes

Kimley»Horn Engineer JENNIFER G. GANSERT, P.E. P.E. No. 124908 Date 11/17/2023

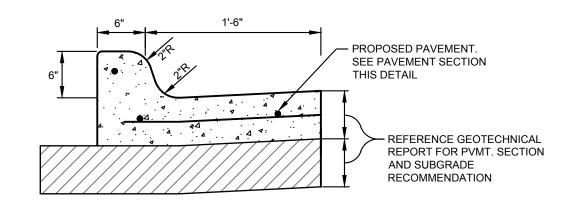
BENCH MARK LIST

The bearing system for this survey is based on the Texas Coordinate System of 1983, North Central Zone 4202 with an applied combined scale factor of 1.00015063, based on observations made on September 21, 2023.

BM#150 - AN "+" CUT WITH BOX SET IN CONCRTE DRIVEWAY AT THE INTERSECTION OF JETER ROAD AN THE ENTRANCE TO COMMUNITY MED URGENT CARE, 102'± SOUTHEAST OF THE SOUTHEAST CORNER OF THE COMMUNITY MED URGENT CARE BUILDING, AND 32' SOUTHWEST OF A SANITARY SEWER

BM#151 - AN "+" CUT WITH BOX SET IN CONCRETE SIDEWALK ON THE EAST SIDE OF THE ACCESS ROAD THROUGH COMMUNITY MED URGENT CARE, 71'± EAST OF THE NORTHEAST CORNER OF THE COMMUNITY MED URGENT CARE BUILDING, AND 175'± SOUTHWEST OF THE INTERSECTION OF FM 407 AND THE NORTHEAST ENTRANCE TO COMMUNITY MED URGENT CARE.

BM#152 - AN "+" CUT WITH BOX SET IN CONCRETE AT THE CORNER OF INTERSECTING SIDEWALKS, 20'± SOUTHEAST OF THE INTERSECTION OF FM 407 AND THE NORTHEAST ENTRANCE TO COMMUNITY MED URGENT CARE, AND 83'± NORTHWEST OF



CONCRETE CURB AND GUTTER DETAIL N.T.S.

VERTICAL SAW-CUT
3/8" (MIN)

(FIRST POUR)

(FIRST POUR)

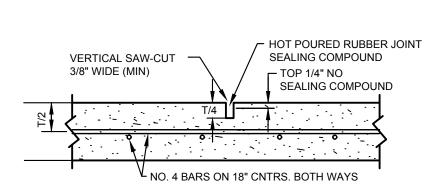
(FIRST POUR)

LAP BARS 30 DIA.
& TIE

NO. 4 BARS ON 18"

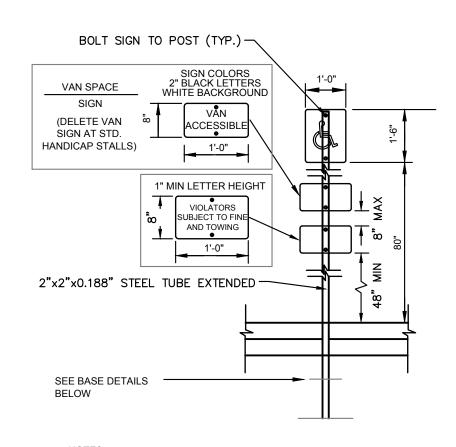
CENTERS BOTH WAYS

CONSTRUCTION JOINT DETAIL



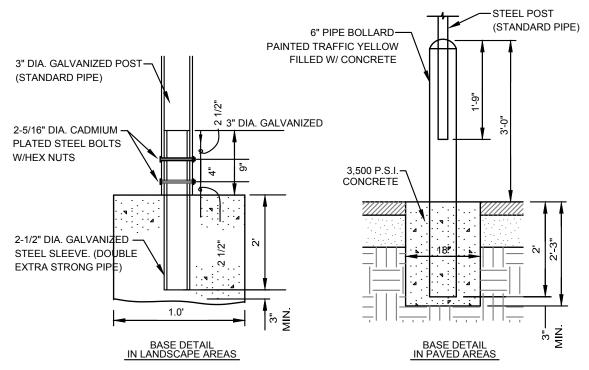
SAWED DUMMY JOINT DETAIL

N.T.S.

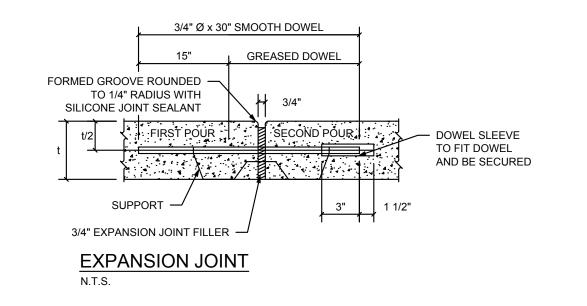


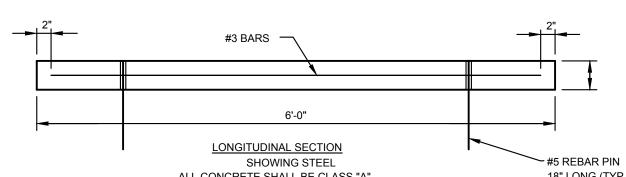
NOTES:
1. SIGN COLORS
1.1. BACKGROUND: WHITE
1.2. SYMBOL: BLUE

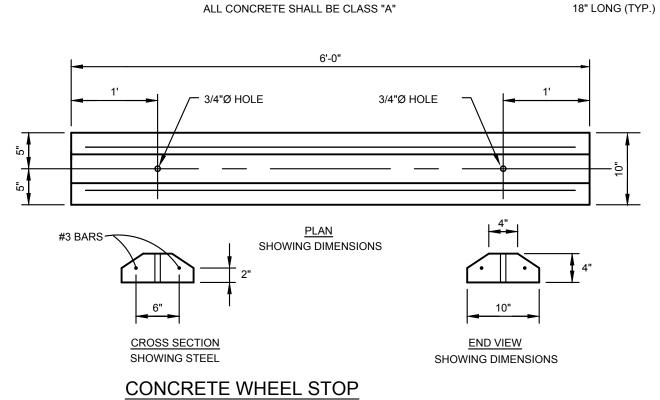
- PROVIDE SIGNAGE AT END OF STALL AT LOCATIONS W/ ACCESSIBLE DESIGNATION TO ACT AS BUMPER STOP.
- 3. 1'-0"x1'-6"x .080" ALUM. ACCESSIBLE PARKING SIGN. SIGN TO READ "RESERVED PARKING" W/ IDENTIFICATION SYMBOL, BOLT TO STEEL TUBE W/ 3/8" CADMIUM PLATED BOLTS, NUTS & WASHERS
- 4. ACCESSIBLE SIGNAGE TO BE IN ACCORDANCE WITH TEXAS DEPARTMENT OF LICENSING AND REGULATION TEXAS ACCESSIBILITY STANDARDS (TAS) PER 4.6.4



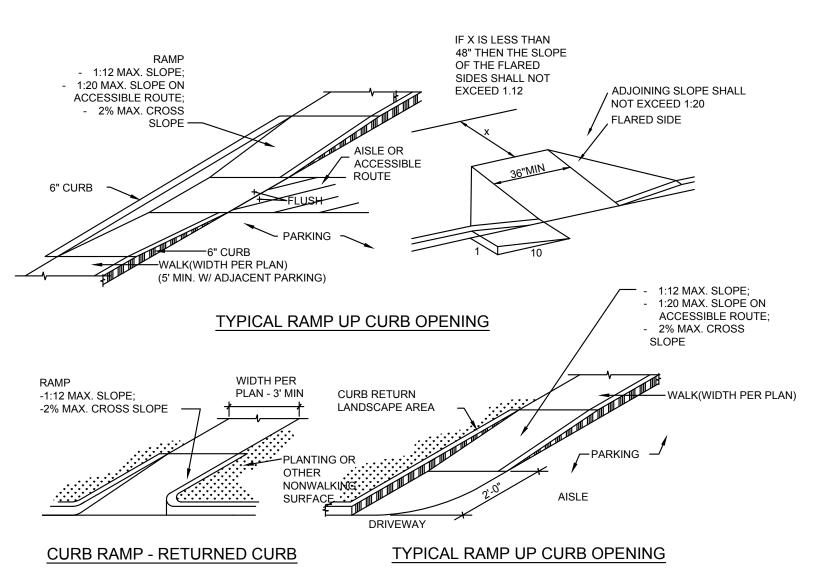
ACCESSIBLE PARKING SIGN AND BASE DETAIL



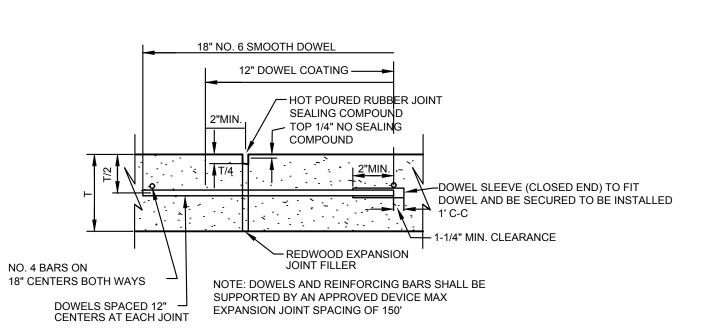




N.T.S.



BARRIER FREE RAMPS (ON-SITE PRIVATE)



TRANSVERSE EXPANSION JOINT DETAIL N.T.S.

GRAPHIC SCALE IN FEET
0 15 30 60
SNOISINARY
SVOISINARY

801 CHERRY ST, UNIT 11, SUITE 1300 FORT WORTH, TEXAS 76102 PHONE: 817-335-6511 FAX: 817-335-5070

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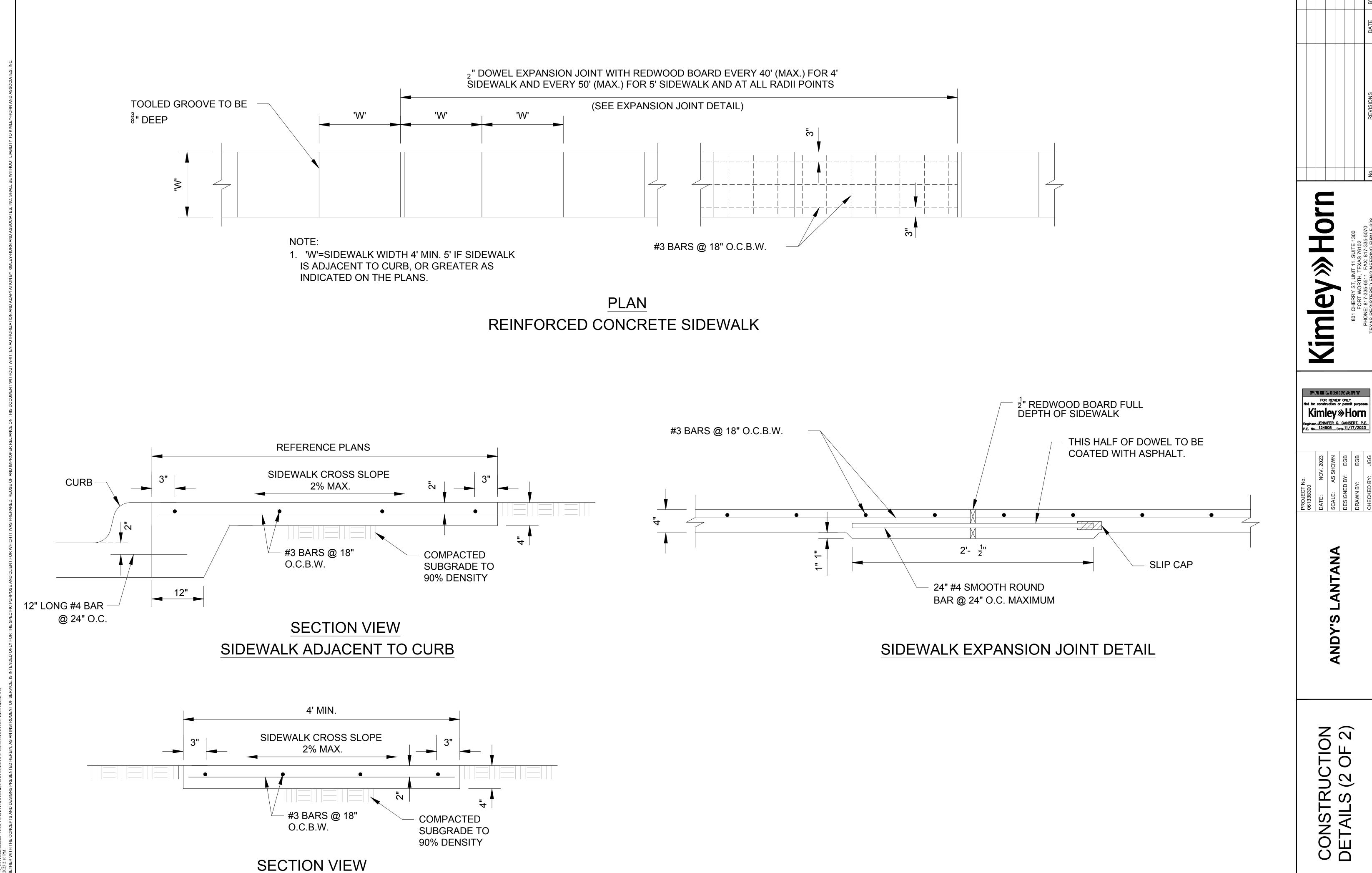
Kimley >>>> Horn

Engineer_JENNIFER G. GANSERT, P.E.
P.E. No. 124908 Date 11/17/2023

TE: NOV. 2023
ALE: AS SHOWN
SIGNED BY: EGB
AWN BY: EGB

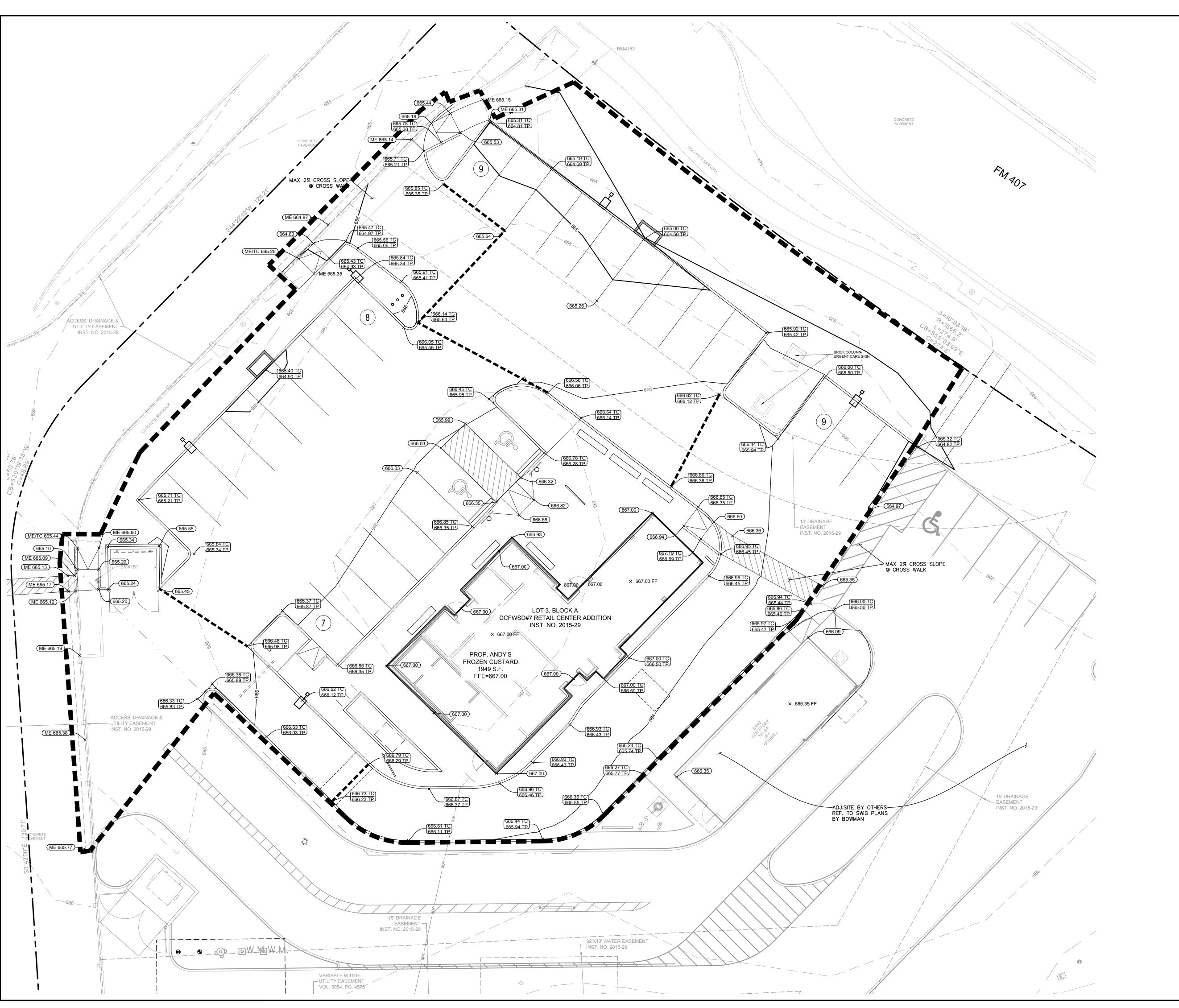
rs Lantana

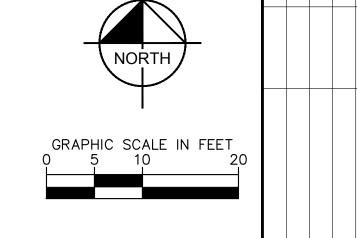
ONSTRUCTION ETAILS (1 OF 2)



SIDEWALK

L 2023 HOWN EGB EGB JGG





<u>LEGEND</u>

×535.25 OR ×535.25 TP PROPOSED TOP OF PAVEMENT ×535.25 TC PROPOSED TOP OF CURB

×535.25 FF

MATCH EXISTING ELEVATION ×535.25 ME

FINISHED FLOOR ELEVATION

PROPOSED SIDEWALK PAVEMENT — — — 527 — — — **EXISTING CONTOUR**

—— 527 —— PROPOSED CONTOUR HIGH POINT

-->--->--->-- VALLEY GUTTER/SWALE SLOPE ARROW

GRADING NOTES

- ALL SPOT ELEVATIONS REFERENCE TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
- THIS PLAN IS FOR SITE ROUGH GRADING ONLY- SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR SLAB ELEVATIONS TO BE USED FOR FOUNDATION CONSTRUCTION.
- CONTRACTOR TO VERIFY T.A.S. / A.D.A. COMPLIANCE PRIOR TO POURING CONCRETE. FOR ANY QUESTIONS, CONTACT CIVIL ENGINEER IMMEDIATELY.
- GRADES IN ALL ACCESSIBLE ROUTES, INCLUDING DRIVEWAY CROSSINGS, SHALL CONFORM TO ALL APPLICABLE A.D.A. AND T.A.S. STANDARDS: MAXIMUM RUNNING SLOPE FOR ALL PATHS IS 5%, MAX CROSS SLOPE FOR ALL PATHS IS 2%, FOR THE FIRST FIVE FEET FROM THE DOOR, A 2% SLOPE IN ANY DIRECTION (MAX) SHALL NOT BE EXCEEDED. PARKING SPACES DESIGNATED ADA ACCESSIBLE AND THEIR RESPECTIVE ACCESS AISLES SHALL NOT EXCEED A 2% SLOPE IN ANY DIRECTION.
- REFER TO LANDSCAPE ARCHITECT PLANS FOR SIDEWALK HARDSCAPE DETAILS.
- CONTRACTOR TO VERIFY ENGINEERING PLANS MATCH ARCHITECTURAL / STRUCTURAL PLANS PRIOR TO CONSTRUCTION STAKING.
- LANDSCAPE AREAS ADJACENT TO BUILDING TO DRAIN TO LANDSCAPE INLETS AT A MINIMUM OF 2% SLOPE.
- REFERENCE GEOTECHNICAL REPORT FOR ALL EARTHWORK AND SUBGRADE PREPARATION INSPECTION SPECIFICATIONS.

CONTRACTOR IS TO VERIFY PRESENCE AND EXACT
LOCATION OF ALL UTILITIES
PRIOR TO CONSTRUCTION.



BENCH MARK LIST

Call before you dig.

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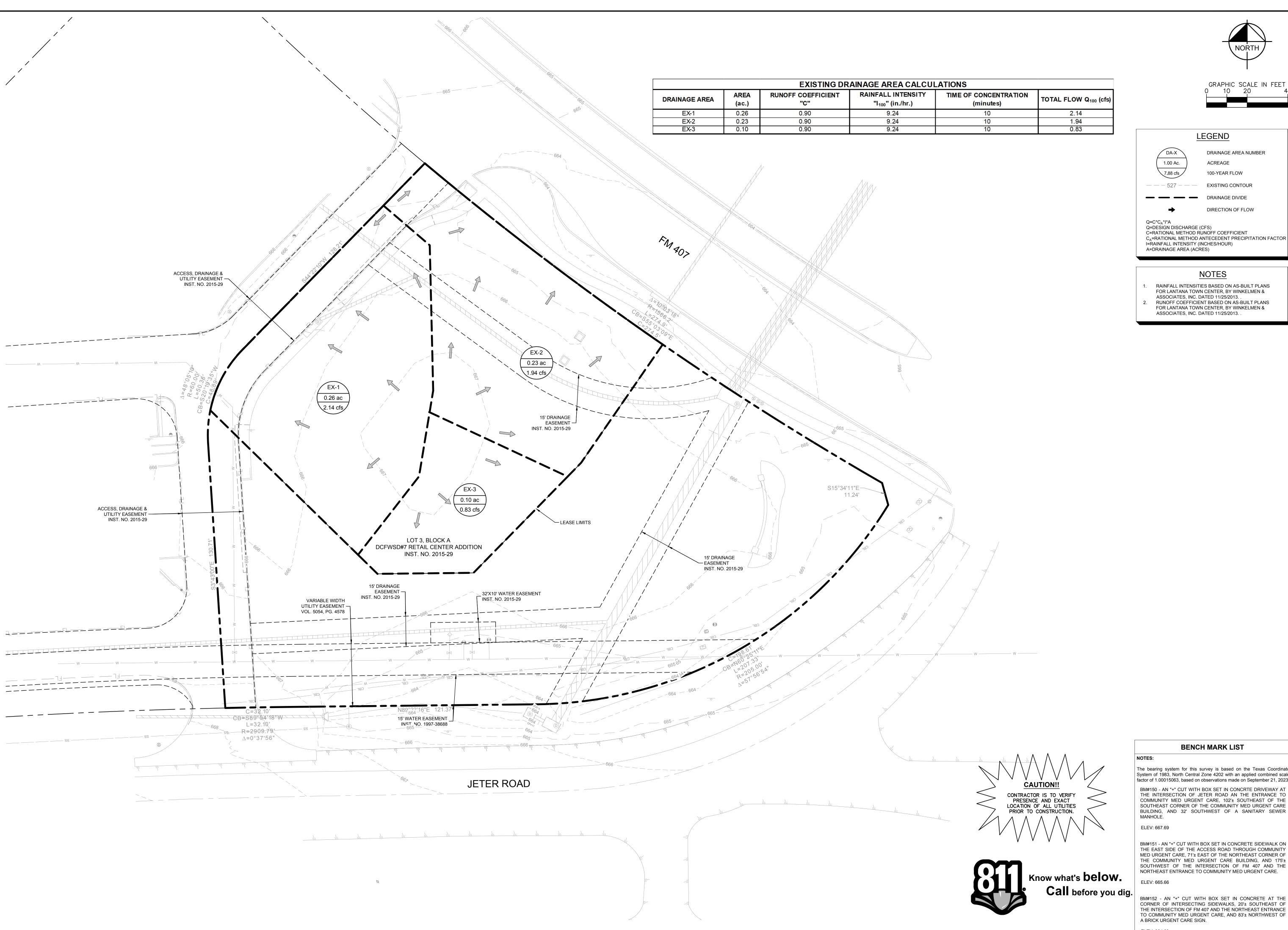
ELEV: 667.69

BM#151 - AN "+" CUT WITH BOX SET IN CONCRETE SIDEWALK ON THE EAST SIDE OF THE ACCESS ROAD THROUGH COMMUNITY MED URGENT CARE, 71'± EAST OF THE NORTHEAST CORNER OF THE COMMUNITY MED URGENT CARE BUILDING, AND 175'± SOUTHWEST OF THE INTERSECTION OF FM 407 AND THE NORTHEAST ENTRANCE TO COMMUNITY MED URGENT CARE. ELEV: 665.66

BM#152 - AN "+" CUT WITH BOX SET IN CONCRETE AT THE CORNER OF INTERSECTING SIDEWALKS, 20'± SOUTHEAST OF THE INTERSECTION OF FM 407 AND THE NORTHEAST ENTRANCE TO COMMUNITY MED URGENT CARE, AND 83'± NORTHWEST OF A BRICK URGENT CARE SIGN.

ELEV: 664.69

PRELIMINARY FOR REVIEW ONLY or construction or permit purposes **Kimley** »Horn Engineer JENNIFER G. GANSERT, P.E. P.E. No. 124908 Date 11/17/2023



GRAPHIC SCALE IN FEET

<u>LEGEND</u>

100-YEAR FLOW **EXISTING CONTOUR**

DRAINAGE DIVIDE DIRECTION OF FLOW

- RAINFALL INTENSITIES BASED ON AS-BUILT PLANS FOR LANTANA TOWN CENTER, BY WINKELMEN & ASSOCIATES, INC. DATED 11/25/2013. .
- FOR LANTANA TOWN CENTER, BY WINKELMEN &

NOTES

- RUNOFF COEFFICIENT BASED ON AS-BUILT PLANS
- ASSOCIATES, INC. DATED 11/25/2013. .

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9

| Kimley»Horn | Engineer JENNIFER G. GANSERT, P.E. P.E. No. 124908 Date 11/17/2023

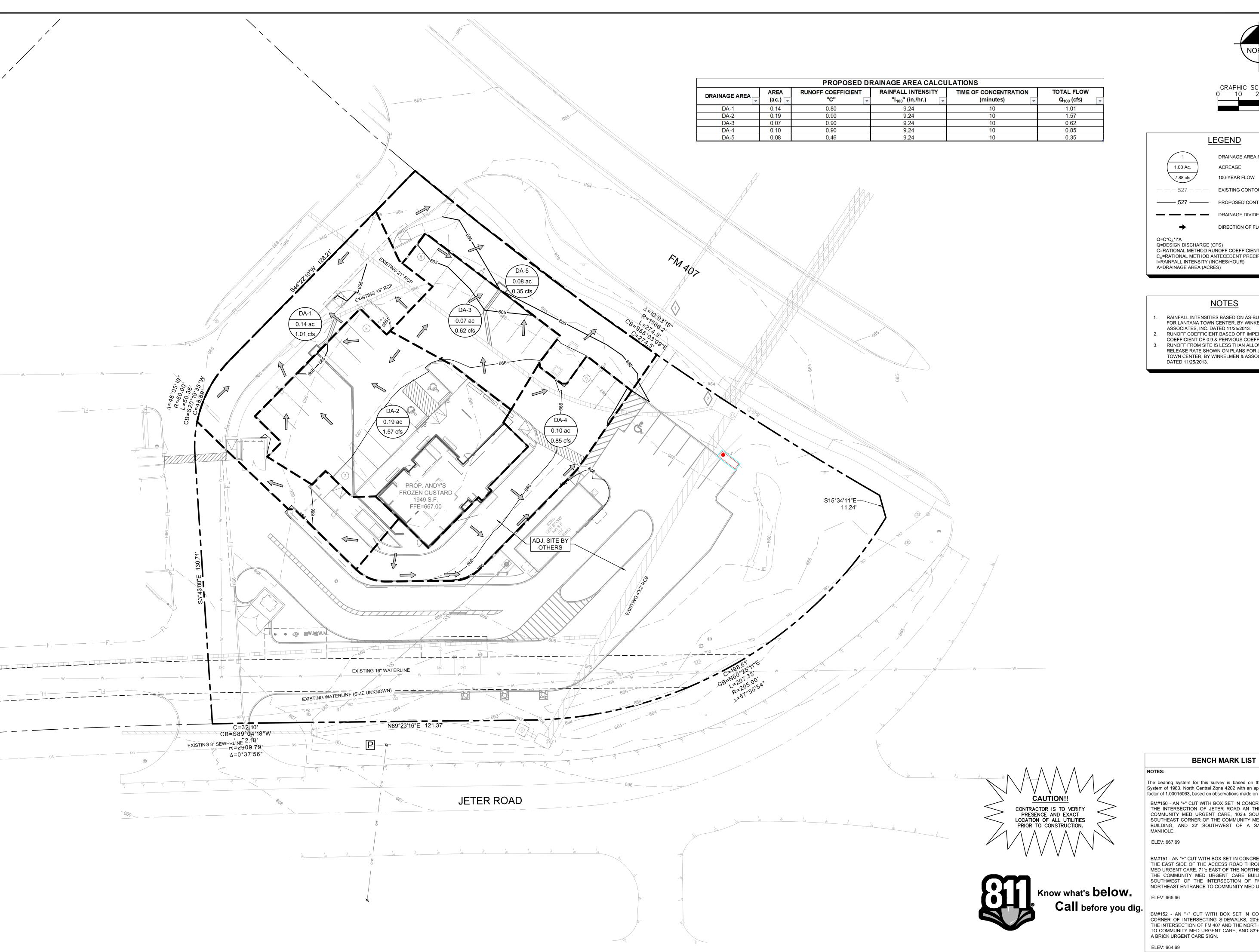
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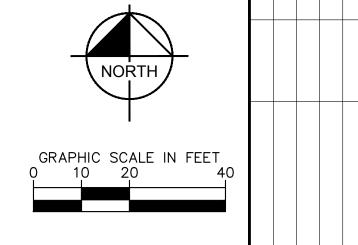
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ELEV: 664.69





<u>LEGEND</u>

DRAINAGE AREA NUMBER ACREAGE 100-YEAR FLOW

EXISTING CONTOUR ——— 527 ——— PROPOSED CONTOUR

DRAINAGE DIVIDE

DIRECTION OF FLOW

C=RATIONAL METHOD RUNOFF COEFFICIENT C_A=RATIONAL METHOD ANTECEDENT PRECIPITATION FACTOR I=RAINFALL INTENSITY (INCHES/HOUR) A=DRAINAGE AREA (ACRES)

1. RAINFALL INTENSITIES BASED ON AS-BUILT PLANS FOR LANTANA TOWN CENTER, BY WINKELMEN & ASSOCIATES, INC. DATED 11/25/2013. 2. RUNOFF COEFFICIENT BASED OFF IMPERVIOUS COEFFICIENT OF 0.9 & PERVIOUS COEFFICIENT OF 0.3. RUNOFF FROM SITE IS LESS THAN ALLOWABLE RELEASE RATE SHOWN ON PLANS FOR LANTANA TOWN CENTER, BY WINKELMEN & ASSOCIATES, INC.

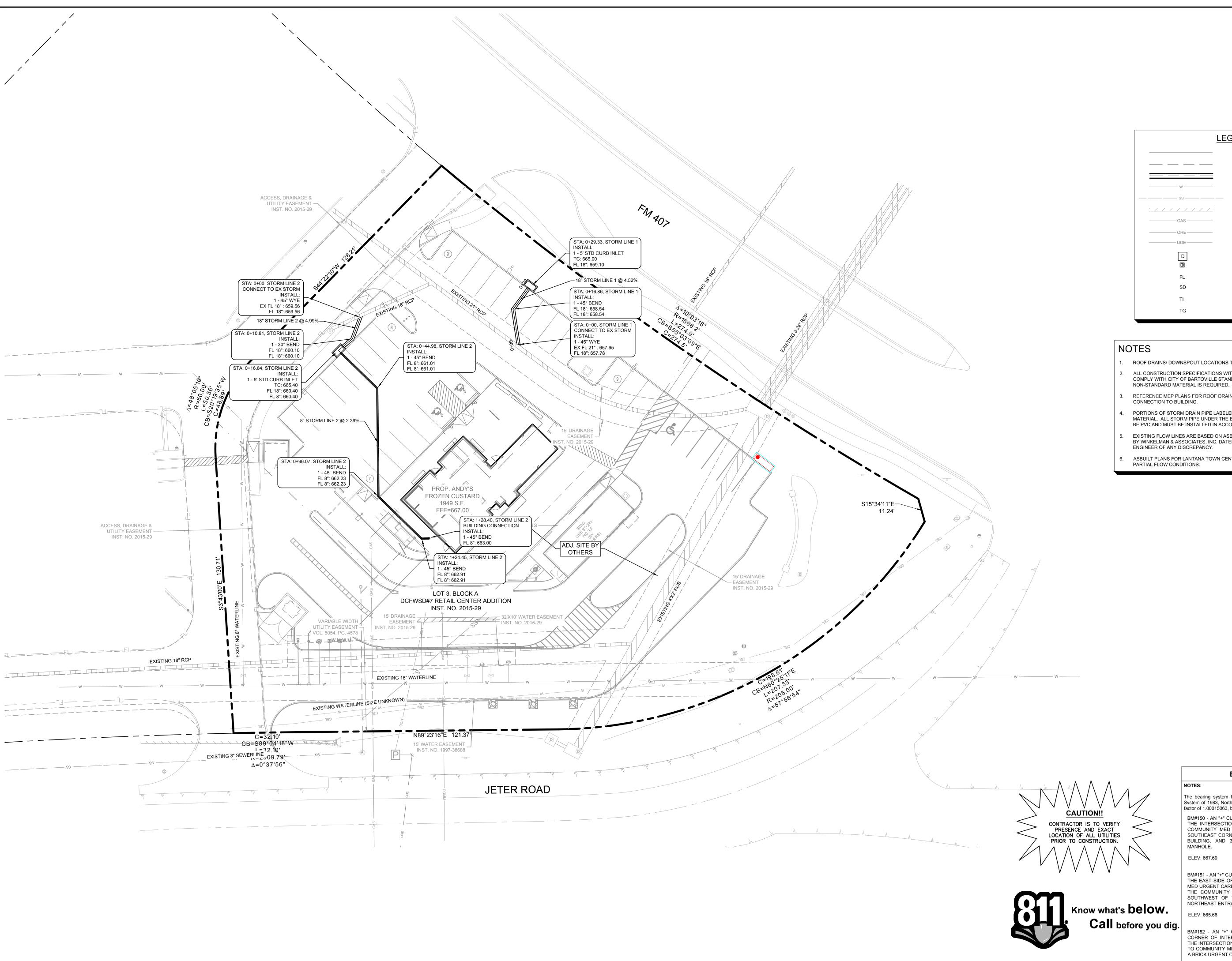
> PRELIMINARY | Kimley»Horn |

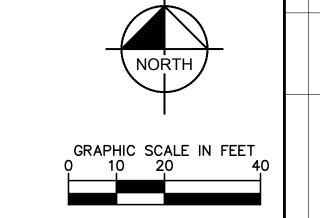
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LEGEND

PROPOSED WATER LINE PROPOSED SANITARY SEWER LINE PROPOSED STORM SEWER LINE EXISTING WATER LINE EXISTING SANITARY SEWER LINE EXISTING STORM SEWER LINE **EXISTING GAS LINE** EXISTING OVERHEAD ELECTRIC LINE STORM SEWER JUNCTION BOX GRATE INLET/ CATCH BASIN FLOW LINE ELEVATION STORM DRAIN TOP OF INLET TOP OF GRATE

- 2. ALL CONSTRUCTION SPECIFICATIONS WITHIN CITY R.O.W. AND EASEMENTS SHOULD COMPLY WITH CITY OF BARTOVILLE STANDARDS. PRIOR APPROVAL TO USE ANY
- REFERENCE MEP PLANS FOR ROOF DRAIN SIZES AND FLOW LINE ELEVATIONS AT CONNECTION TO BUILDING.
- EXISTING FLOW LINES ARE BASED ON ASBUILT PLANS FOR LANTANA TOWN CENTER BY WINKELMAN & ASSOCIATES, INC. DATED 11/25/2013. CONTRACTOR TO NOTIFY
- 6. ASBUILT PLANS FOR LANTANA TOWN CENTER SHOW EXISTING STORM SYSTEM IN PARTIAL FLOW CONDITIONS.

EXISTING UNDERGROUND ELECTRIC LINE

- 1. ROOF DRAINS/ DOWNSPOUT LOCATIONS TO BE COORDINATED WITH MEP.
- PORTIONS OF STORM DRAIN PIPE LABELED "SD" MAY BE ANY APPROVED PIPE MATERIAL. ALL STORM PIPE UNDER THE BUILDING OR OTHER STRUCTURES MUST BE PVC AND MUST BE INSTALLED IN ACCORDANCE WITH PLUMBING CODE.
- ENGINEER OF ANY DISCREPANCY.

PRELIMINARY FOR REVIEW ONLY for construction or permit purposes Kimley»Horn Engineer_JENNIFER_G. GANSERT, P.E. P.E. No. 124908 Date 11/17/2023

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ELEV: 667.69

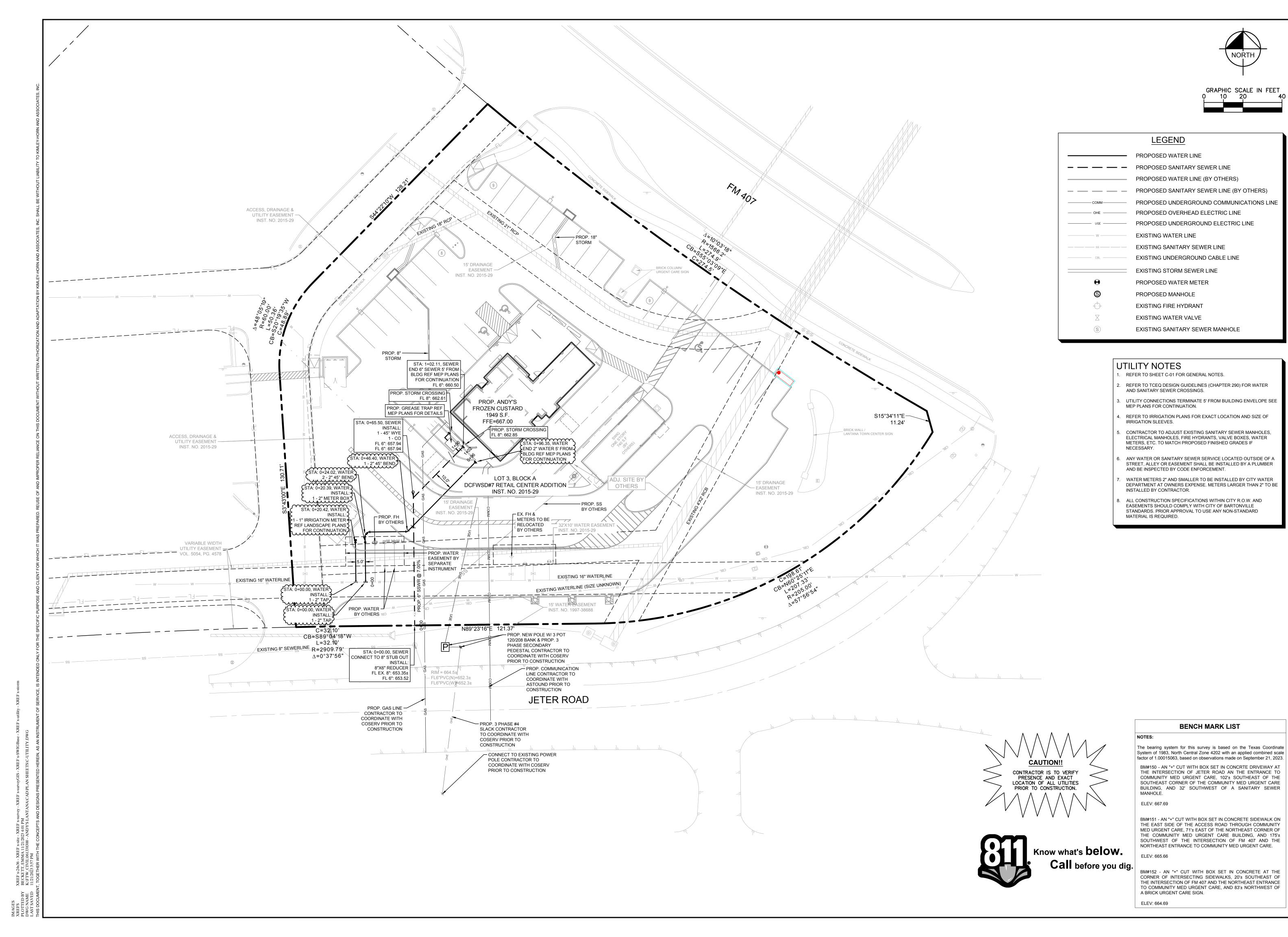
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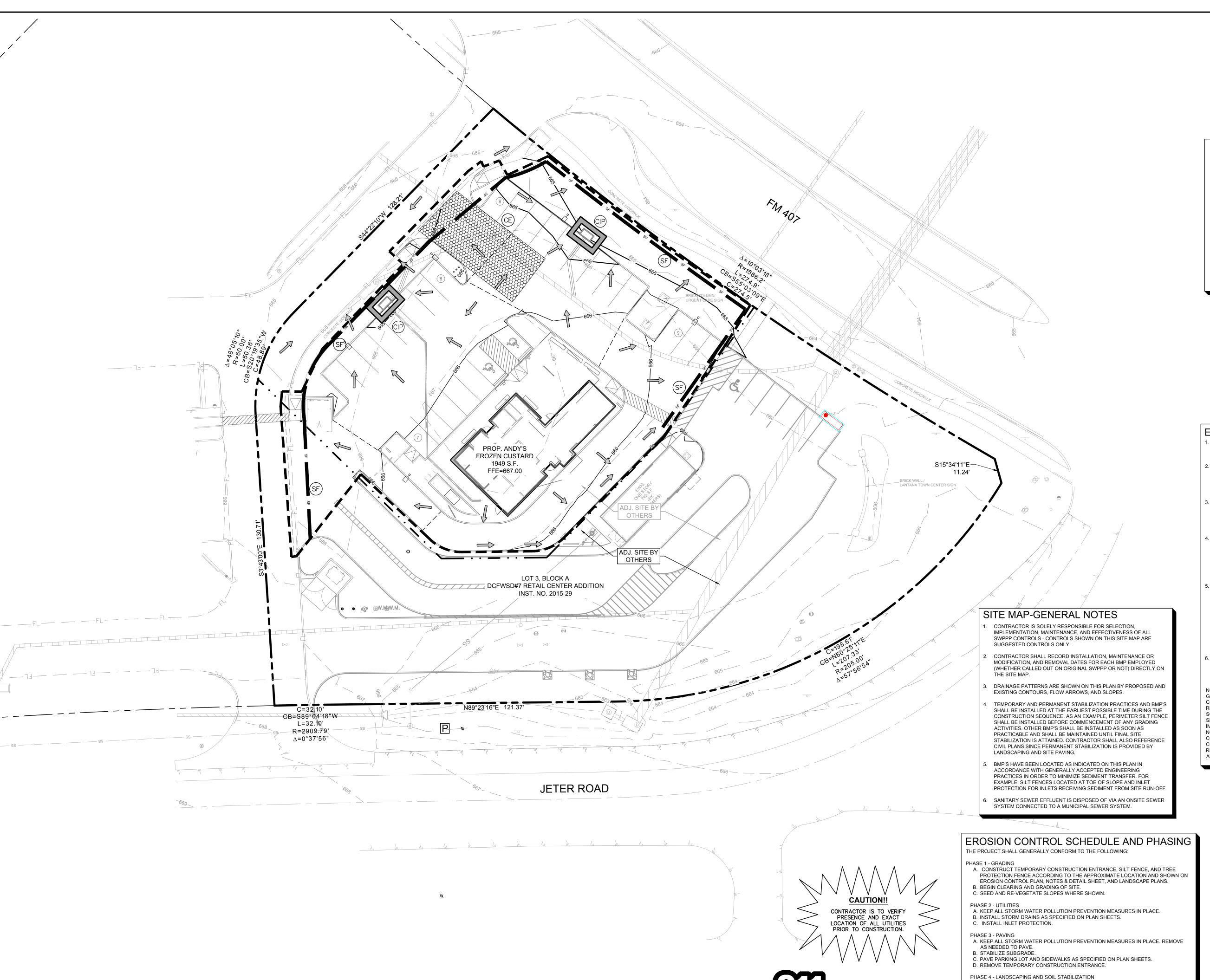
ELEV: 664.69

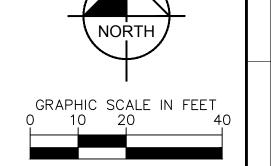
SHEET NUMBER

S



PRELIMINARY FOR REVIEW ONLY for construction or permit purpose Kimley»Horn Engineer JENNIFER G. GANSERT, P.E. P.E. No. 124908 Date 11/17/2023





LEGEND

EXISTING CONTOUR - — — — 527 *- — — -*

PROPOSED CONTOUR LEASE LIMITS

DIRECTION OF FLOW (CIP) CURB INLET PROTECTION

LIMITS OF CONSTRUCTION

(CE) CONSTRUCTION ENTRANCE

DISTURBED AREAS

TOTAL LOT AREA DISTURBED ON-SITE AREA DISTURBED OFF-SITE AREA TOTAL DISTURBED AREA

EROSION CONTROL GENERAL NOTES EROSION CONTROL DEVICES AS SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START

ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS FOR THE PROJECT. CHANGES ARE TO BE APPROVED BEFORE CONSTRUCTION BY THE DESIGN ENGINEER AND THE CITY ENGINEERING DIVISION.

OF LAND DISTURBING ACTIVITIES ON THE PROJECT.

IF THE EROSION CONTROL PLAN AS APPROVED CANNOT CONTROL EROSION AND OFF-SITE SEDIMENTATION FROM THE PROJECT THE EROSION CONTROL PLAN WILL BE REQUIRED TO BE REVISED AND/OR ADDITIONAL EROSION CONTROL DEVICES WILL BE REQUIRED ON

OFF-SITE SOIL BORROW AND SPOIL AREAS ARE CONSIDERED AS PART OF THE PROJECT SITE AND MUST ALSO COMPLY WITH THE EROSION CONTROL REQUIREMENTS FOR THIS PROJECT. THIS INCLUDES THE INSTALLATION OF BMP'S TO CONTROL OFFSITE SEDIMENTATION AND THE ESTABLISHMENT OF PERMANENT GROUND COVER ON DISTURBED AREAS PRIOR TO FINAL APPROVAL OF THE PROJECT.

- INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAIN STORM EVENTS TO INSURE THAT THE DEVICES ARE FUNCTIONING PROPERLY. WHEN SEDIMENT OR MUD HAS CLOGGED THE VOID SPACES BETWEEN STONES OR MUD IS BEING TRACKED ONTO A PUBLIC ROADWAY, THE AGGREGATE PAD MUST BE WASHED DOWN OR REPLACED. RUNOFF FROM THE WASHDOWN OPERATION SHALL NOT BE ALLOWED TO DRAIN DIRECTLY OFF SITE WITHOUT FIRST FLOWING THROUGH ANOTHER BMP TO CONTROL OFF SITE SEDIMENTATION. PERIODIC RE-GRADING OR THE ADDITION OF NEW STONE MAY BE REQUIRED TO MAINTAIN THE EFFICIENCY OF THE INSTALLATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTAL OF N.O.I., N.O.T. AND ANY ADDITIONAL INFORMATION REQUIRED BY THE E.P.A. CONTRACTOR SHALL COMPLY WITH ALL E.P.A. STORMWATER POLLUTION PREVENTION REQUIREMENTS.

NOTE: THE SEQUENCE OF CONSTRUCTION SHOWN ABOVE IS A GENERAL OVERVIEW AND IS INTENDED TO CONVEY THE GENERAL CONCEPTS OF THE EROSION CONTROL DESIGN AND SHOULD NOT BE RELIED UPON FOR CONSTRUCTION PURPOSES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETAILED PHASING AND CONSTRUCTION SEQUENCING NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS INCLUDED IN THESE PLANS. THE CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IMMEDIATELY, PRIOR TO AND/OR DURING CONSTRUCTION IF ANY ADDITIONAL INFORMATION ON THE CONSTRUCTION SEQUENCE IS NECESSARY. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND ALL OTHER APPLICABLE LAWS.

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ELEV: 664.69

ELEV: 665.66

A. RE-VEGETATE LOT AND PARKWAYS

ESTABLISHED.

Call before you dig.

B. LANDSCAPE CONTRACTOR SHALL RE-VEGETATE ALL AREAS

C. REMOVE EROSION CONTROL DEVICES WHEN GROUND COVER

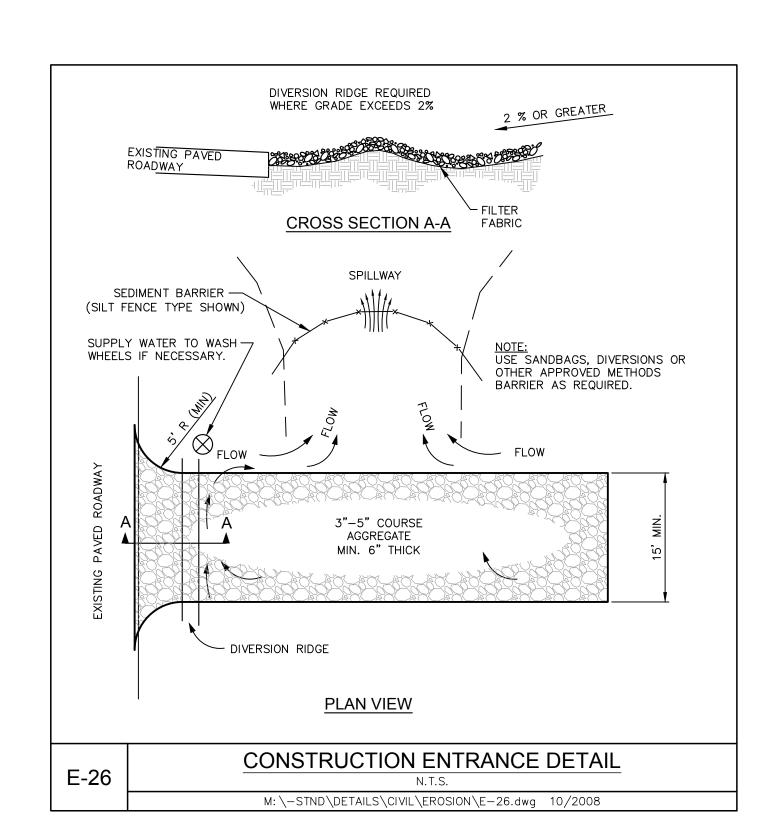
RESERVED FOR LANDSCAPE VEGETATIVE COVERS.

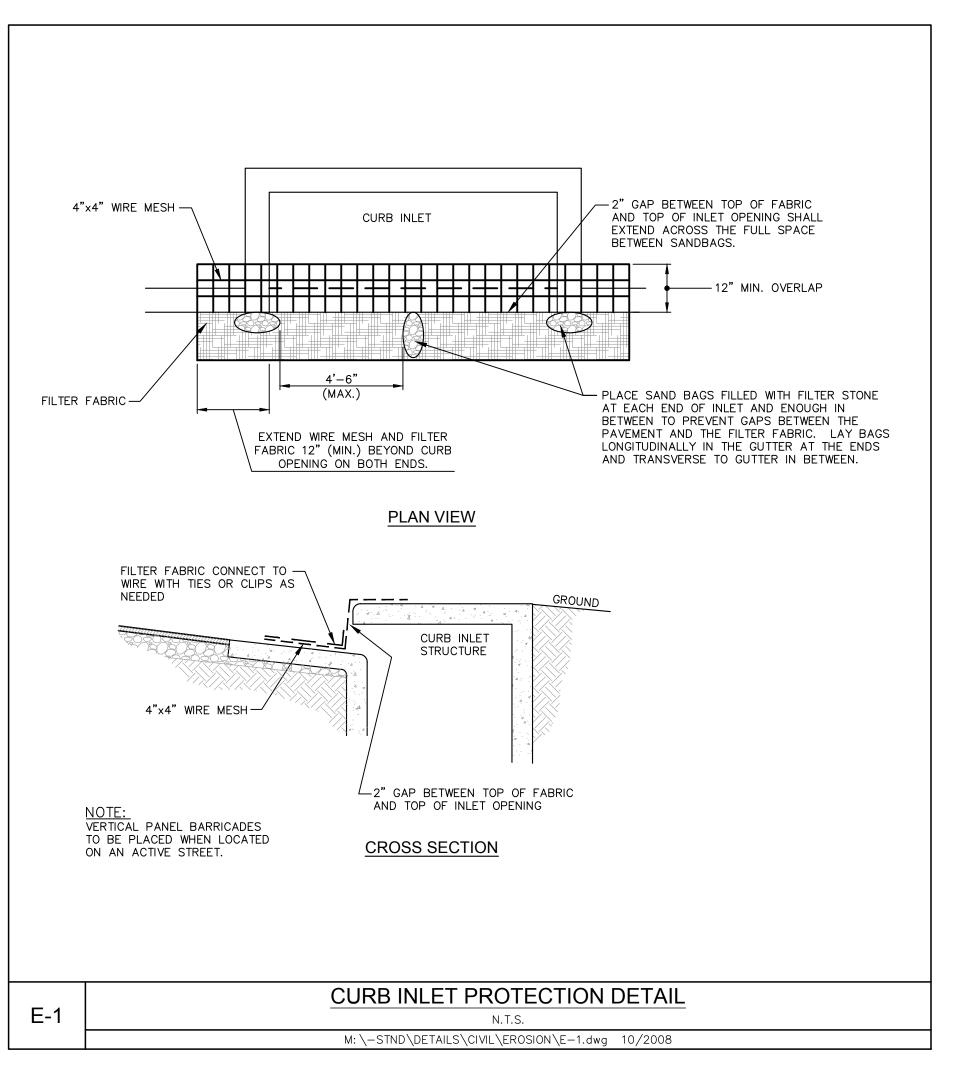
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PRELIMINARY FOR REVIEW ONLY for construction or permit purpose Kimley»Horn Engineer <u>JENNIFER G. GANSERT, P.E.</u> P.E. No. <u>124908</u> <u>Date 11/17/2023</u>

M:\-STND\DETAILS\CIVIL\EROSION\E-16.dwg 10/2008

E-16





EROSION CONTROL NOTES

- I. THE OWNER AND CONTRACTOR SHALL EACH SUBMIT A CONSTRUCTION SITE NOTICE AND NOTICE OF INTENT (TXR 150000 FORM) TO THE CITY AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. OWNER AND CONTRACTOR ARE RESPONSIBLE FOR RETAINING PROOF THAT THE FORM WAS SUBMITTED TO THE CITY (PROOF MUST CONSIST OF CERTIFIED MAIL WITH RETURN RECEIPT).
- 2. TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) CONSTRUCTION GENERAL PERMIT TXR150000, LANDSCAPE PLANS, GEOTECHNICAL INVESTIGATION (IF PREPARED), CIVIL ENGINEERING PLANS AND ALL APPLICABLE SPECIFICATIONS ARE HEREBY INCORPORATED INTO THIS SWPPP. CONTRACTOR SHALL OBTAIN AND KEEP A CURRENT COPY OF THESE DOCUMENTS AT THE CONSTRUCTION SITE.
- 3. ALL EROSION AND SEDIMENTATION CONTROLS MUST BE DESIGNED, INSTALLED AND MAINTAINED TO RETAIN SEDIMENT ON-SITE TO THE EXTENT PRACTICABLE.
- 4. ALL CONTROL MEASURES MUST BE SELECTED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND GOOD ENGINEERING PRACTICES.
- 5. OFF-SITE ACCUMULATIONS OF SEDIMENT ESCAPING PROJECT SITE MUST BE REMOVED AT A FREQUENCY NECESSARY TO MINIMIZE OFF-SITE IMPACTS. FOR EXAMPLE, SEDIMENTATION WITHIN STREETS ADJACENT TO THE PROJECT SITE MUST BE REMOVED PRIOR TO RAINFALL EVENTS. ALL FINES IMPOSED FOR TRACKING ONTO PUBLIC ROADS SHALL BE PAID BY THE CONTRACTOR. IN ANY EVENT SILT SHALL ALWAYS BE REMOVED SUCH THAT PONDING IN A STREET IS DREVENTED.
- 6. CONTRACTOR MUST REMOVE SEDIMENT FROM ALL APPLICABLE CONTROLS WHEN DESIGN SILT STORAGE CAPACITY HAS BEEN REDUCED BY 50%.
- 7. CONTRACTOR SHALL ENSURE THAT ALL LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS ARE PREVENTED FROM BECOMING POLLUTANT SOURCES.
- 8. OFF-SITE MATERIAL STORAGE AREAS USED SOLELY FOR THIS PROJECT, INCLUDING DIRT STOCKPILES AND BORROW AREAS (AS APPLICABLE), MUST BE PREVENTED FROM BECOMING POLLUTANT SOURCES BY INSTALLATION OF BMP'S.
- 9. CONTRACTOR SHALL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE.
- 10. DISTURBED PORTIONS OF SITE MUST BE STABILIZED. STABILIZATION PRACTICES MUST BE INITIATED WITHIN 14 DAYS IN PORTIONS OF THE SITE WHERE CONSTRUCTION HAS BEEN EITHER TEMPORARILY OR PERMANENTLY CEASED, UNLESS EXCEPTED WITHIN THE TPDES PERMIT.
- 11. CONTRACTOR MUST MAINTAIN RECORDS OF DATES IN THE SWPPP OF WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN CONSTRUCTION ACTIVITIES EITHER TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, AND WHEN STABILIZATION MEASURES ARE INITIATED.
- 12. CONTRACTOR SHALL ENSURE THAT SWPPP IS CONSISTENT WITH SEDIMENT AND EROSION SITE PLANS, STORM WATER PERMITS, AND STORM WATER MANAGEMENT PLANS APPROVED BY STATE, TRIBAL, OR LOCAL OFFICIALS. UPDATES TO SWPPP ARE REQUIRED UPON WRITTEN NOTICE TO PERMITTEE OF CHANGES APPLICABLE TO STORM WATER PERMITS, SEDIMENT AND EROSION CONTROL PLANS, OR STORM WATER MANAGEMENT PLANS BY SUCH OFFICIALS.
- 13. ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND ANY OTHER PROTECTIVE MEASURES IDENTIFIED IN THE SWPPP MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION. WHEN INSPECTIONS IDENTIFY CONTROLS OPERATING INEFFECTIVELY, THE CONTROLS SHALL BE MAINTAINED PRIOR TO THE NEXT RAINFALL EVENT OR AS NECESSARY TO MAINTAIN EFFECTIVENESS OF THE CONTROL, OR AS SOON AS PRACTICABLE.
- 14. CONTRACTOR SHALL INSPECT DISTURBED AREAS, MATERIAL STORAGE AREAS EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND VEHICLE ENTRY AND EXIT AREAS AT LEAST ONCE EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM EVENT OF 0.5 INCHES OR GREATER.
- 15. CONTRACTOR SHALL INSPECT STABILIZED AREAS AND AREAS WHERE RUNOFF IS UNLIKELY DUE TO FROZEN OR ARID WEATHER CONDITIONS AT LEAST ONCE PER MONTH.
- 16. CONTRACTOR SHALL INSPECT ACCESSIBLE DISCHARGE LOCATIONS (OR NEARBY DOWNSTREAM LOCATIONS IF DISCHARGE POINT IS NOT ACCESSIBLE) IN ORDER TO ASCERTAIN WHETHER OR NOT EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS.
- 17. STRUCTURAL BMP'S SHOULD NOT, TO THE DEGREE ATTAINABLE, BE PLACED WITHIN
- 18. BASED ON INSPECTION RESULTS, REVISIONS TO SWPPP MUST BE MADE WITHIN 7 CALENDAR DAYS OF THE INSPECTION. NEW OR MODIFIED CONTROL MEASURES MUST BE INSTALLED PRIOR TO THE NEXT RAINFALL EVENT, OR AS SOON AS PRACTICABLE.
- 19. REPORTS SUMMARIZING THE SCOPE OF ALL INSPECTIONS, INCLUDING NAME AND QUALIFICATIONS OF INSPECTOR, DATE OF INSPECTION, AND MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE SWPPP (INCLUDING LOCATION OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS, LOCATION OF CONTROLS THAT NEED TO BE MAINTAINED, LOCATIONS WHERE CONTROLS ARE INADEQUATE OR ARE OPERATING IMPROPERLY, AND LOCATIONS WHERE ADDITIONAL CONTROLS ARE NEEDED) MUST BE SIGNED BY THE INSPECTOR PER 30 TEXAS ADMINISTRATIVE CODE (TAC) SECTION 305.128, AND RETAINED WITHIN THE SWPPP FOR AT LEAST 3 YEARS FROM THE DATE THE SITE IS FINALLY STABILIZED. REPORTS THAT DO NOT IDENTIFY INCIDENTS OF NON-COMPLIANCE SHALL CONTAIN A CERTIFICATION STATING THAT THE SITE IS IN COMPLIANCE WITH THE SWPPP AND THE GENERAL PERMIT.

THE CONTRACTOR SHALL CERTIFY AS FOLLOWS:

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

- 20. CONTRACTOR SHALL IDENTIFY ALL SOURCES OF ALLOWABLE NON-STORM WATER THAT WILL BE COMBINED WITH STORM WATER AT THE SITE (EXCEPT FIRE-FIGHTING ACTIVITIES) AND ENSURE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR NON-STORM WATER COMPONENT(S) OF DISCHARGE.
- 21. CONTRACTOR SHALL ENSURE THAT THE INDIVIDUAL SIGNING THE SWPPP MAKES THE CERTIFICATION UNDER PART VI.G.2.d OF THE GENERAL PERMIT. THIS CERTIFICATION MUST APPEAR WITHIN THE SWPPP.
- "I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

1 CHERRY ST, UNIT 11, SUITE 1300
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DNE: 817-335-6511 FAX: 817-335-5070

FOR REVIEW ONLY
Not for construction or permit purposes.

Kimley >>> Horn

Engineer_JENNIFER_G. GANSERT. P.E.
P.E. No. 124908 Date 11/17/2023

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NOTE: PLANTS ARE TO BE SPECIFIED BY HEIGHT AND SPREAD, NOT CONTAINER SIZE. ALL PLANTINGS ARE EXPECTED TO MEET ALL SPECIFICATIONS PROVIDED.

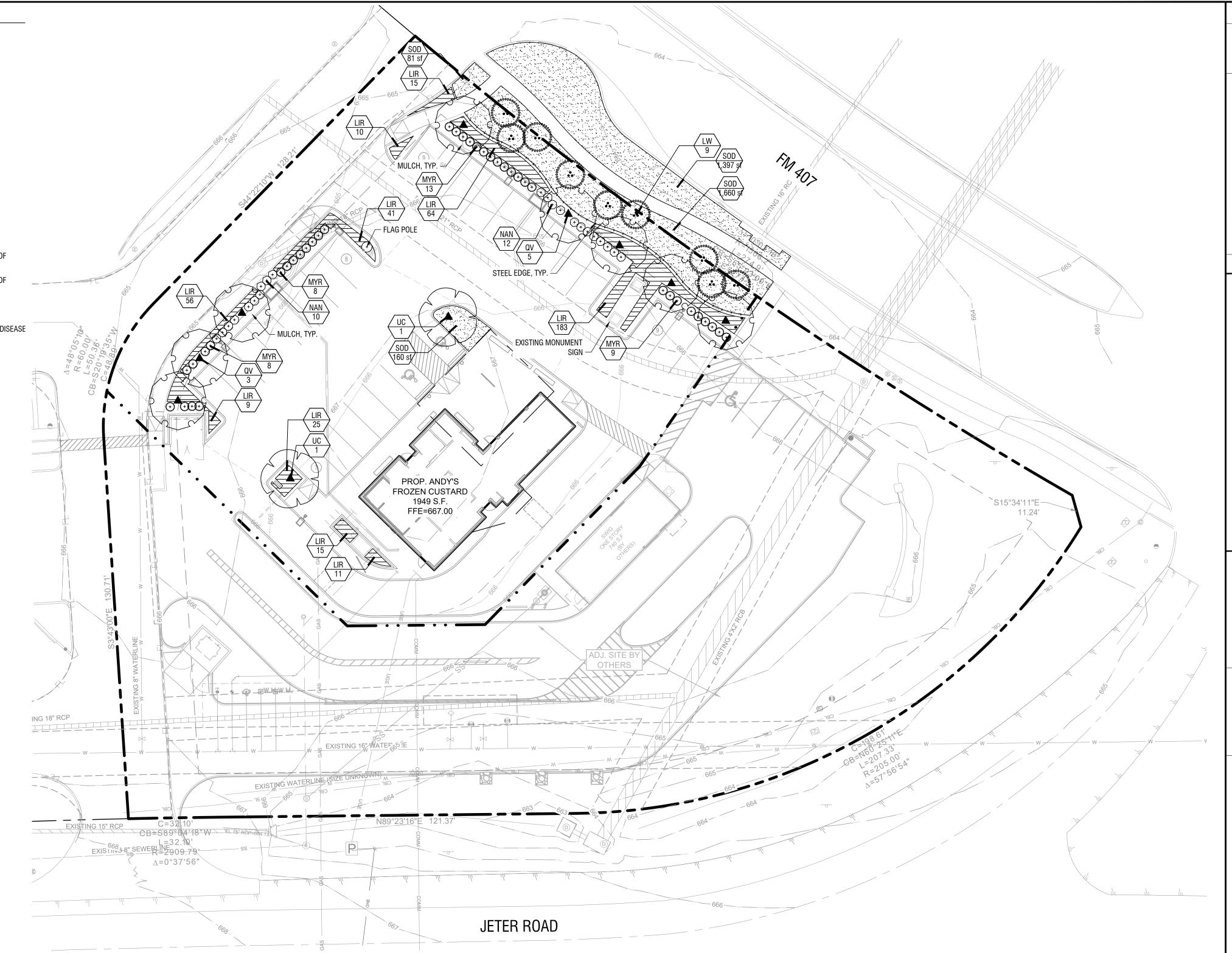
	TOWN OF BARTONVILLE, TX		
	LANDSCAPE ZONING REQUIREMENTS	REQUIRED	PROVIDED
	H.2.a) STREET TREES SHALL BE PLANTED AT THE RATE OF ONE (1) TREE FOR EVERY THIRTY (30) FEET, OR MAJOR FRACTION THEREOF, OF STREET FRONTAGE. $147.16 \text{ LF} / 30 = 4.91 = 5 \text{ TREES}$	5 TREES	5 TREES
	(J.1) A MINIMUM OF TEN (10) PERCENT OF THE GROSS PARKING AREAS SHALL BE DEVOTED TO LIVING LANDSCAPING THAT INCLUDES GRASS, GROUND COVER, PLANTS, SHRUBS AND TREES. 6,469.23 SF x 0.10 = 647 SF	647 SF	971 SF
	(J.1.b) THERE SHALL BE A MINIMUM OF ONE (1) NATIVE OVERSTORY TREE PLANTED FOR EACH FOUR HUNDRED (400) SQUARE FEET OR FRACTION THEREOF OF REQUIRED INTERIOR LANDSCAPE AREA. $647\ SF\ /\ 400 = 1.62 = 2\ TREES$	YES	YES *
(18.6) LANDSCAPING REQUIREMENTS FOR NON-RESIDENTIAL	(J.1.c) PLANTER ISLANDS MUST BE LOCATED NO FURTHER APART THAN EVERY TWELVE (12) PARKING SPACES AND AT THE TERMINUS OF ALL ROWS OF PARKING. SUCH ISLANDS SHALL CONTAIN AT LEAST ONE (1) OVERSTORY TREE. 5 PLANTER ISLANDS = 5 TREES	5 TREES	5 TREES **
DEVELOPMENTS	(J.2.a) A PERIMETER LANDSCAPE AREA OF AT LEAST FIFTEEN (15) FEET IN DEPTH SHALL BE MAINTAINED BETWEEN THE ABUTTING PUBLIC RIGHT-OF-WAY AND THE OFF-STREET PARKING OR VEHICULAR USE AREA.	YES	YES
	(J.b) THE FOLLOWING PLANTING MATERIALS SHALL BE REQUIRED WITHIN A LANDSCAPE BARRIER AS SPECEFIED HEREIN: - ONE (1) OVERSTORY TREE PER FIFTY (50) LINEAR FEET OF FRONTAGE - THREE (3) UNDERSTORY TREES PER FIFTY (50) LINEAR FEET OF FRONTAGE - CURVILINEAR BERM MEASURING A MINIMUM OF THREE (3) FEET IN HEIGHT OR A HEDGE ROW CREATING A SOLID VEGETATIVE SCREEN AT MATURITY OF THE PLANT MATERIALS. 147.16 LF / 50 = 2.94 = 3 OVERSTORY TREES *** 147.16 LF / 50 = 2.94 x 3 = 8.82 = 9 UNDERSTORY TREES	9 UNDERSTORY TREES BERM OR VEGEATIVE SCREEN	9 UNDERSTORY TREE VEGETATIVE SCREEI

* PER SECTION 18.5.K, PLANTING REQUIREMENTS SHALL NOT BE CUMULATIVE AND PLANTING MATERIALS REQUIRED TO MEET ONE SECTION OF THE ORDINANCE MAY BE CREDITED TOWARD THE REQUIREMENTS TO MEET OTHER SECTIONS OF THE ORDINANCE. REQUIRED LANDSCAPE AREA TREES BEING MET WITH PROVIDED INTERIOR PARKING LOT TREES.

* PER SECTION 18.5.K, PLANTING REQUIREMENTS SHALL NOT BE CUMULATIVE AND PLANTING MATERIALS REQUIRED TO MEET ONE SECTION OF THE ORDINANCE MAY BE CREDITED TOWARD THE REQUIREMENTS TO MEET OTHER SECTIONS OF THE ORDINANCE. REQUIRED LANDSCAPE BARRIER OVERSTORY TREES BEING MET WITH PROVIDED STREET TREES.

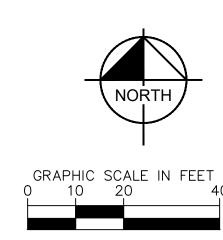
** PLANTER ISLAND TREES PROVIDED ELSEWHERE ON SITE WHERE SITE CONSTRAINTS EXIST.

	LANTANA DISTRICT, TX		
	COMMERCIAL DESIGN GUIDELINE REQUIREMENTS	REQUIRED	PROVIDED
	(2) PLANT MATERIALS: SHRUB AND GROUNDCOVER BED AREA SHALL CONTRIBUTE TO NO LESS THAN 15% OR MORE THAN 50% OF THE TOTAL FRONT YARD AREA. 9,993.88 SF x 0.15 = 1,499 SF MIN	1,499 SF	1,565 SF
(SECTION III.C) LANDSCAPE	9,993.88 SF x 0.50 = 4,997 SF MAX (7) PARKING LOT SCREENING: ALL PARKING MUST BE SCREENED FROM THE STREET BY A COMBINATION OF TREES AND A CONTINUOUS HEDGE TO MATCH ADJACENT PROPERTIES.	YES	YES
ARCHITECTURE	(19) PARKING LOT LANDSCAPING: SHADE TREES SHALL BE PROVIDED IN PLANTER ISLANDS AT A MINIMUM RATIO OF 1 TREE PER 40 PARKING SPACES. NO PARKING SPACE SHALL BE MORE THAN SIXTY FEET (60') FROM A PLANTER ISLAND WITH A SHADE TREE. $27 PARKING SPACES / 40 = 0.68 = 1 TREE$	YES	YES
	(20) MISCELLANEOUS / OTHER: STREET TREES SHALL BE PROVIDED ALONG ALL STREETSCAPES AT A RANGE OF THIRTY FEET (30') TO FORTY FEET (40') O.C. SPACING.	YES	YES



PLANTING NOTES

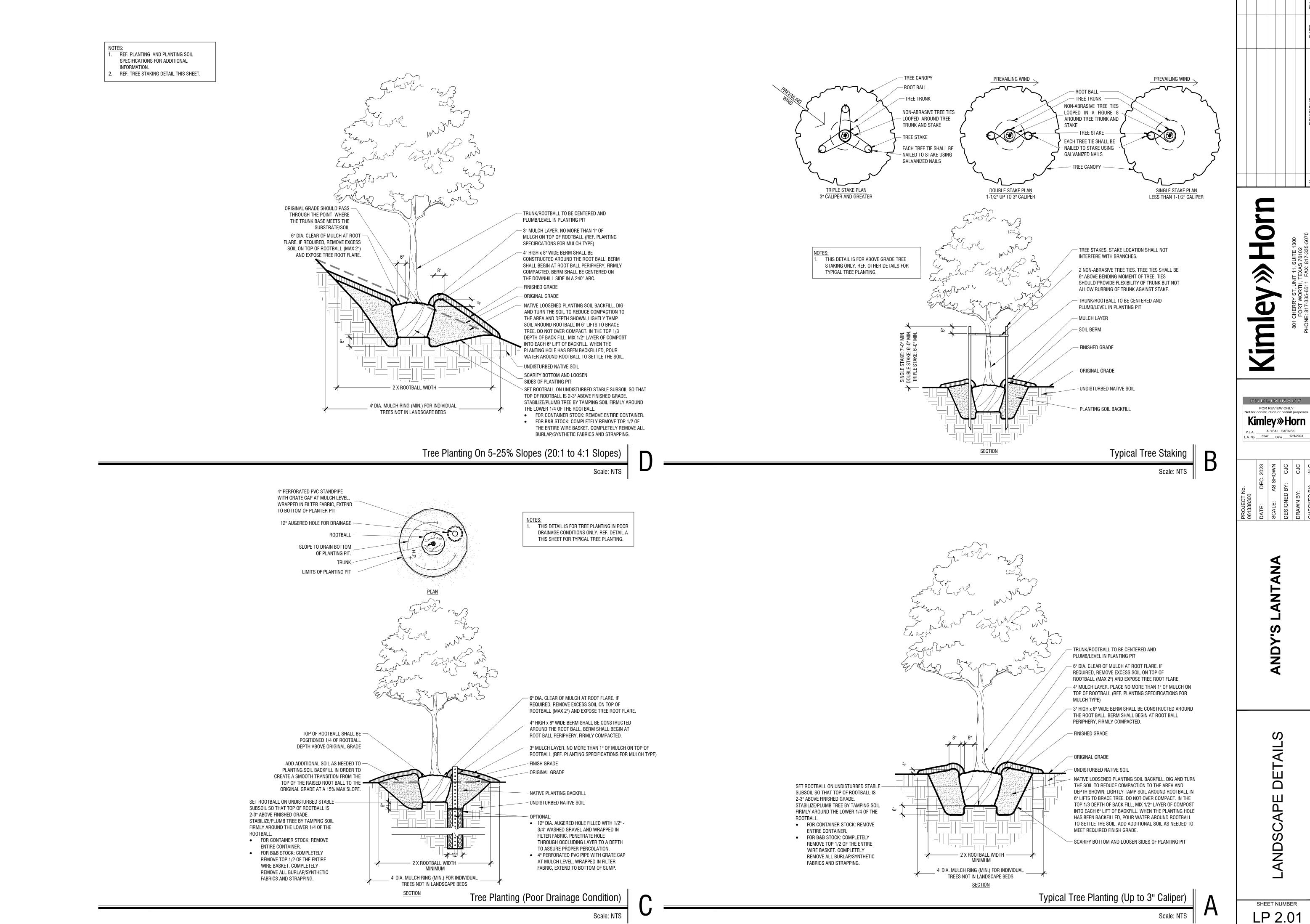
- 1. ALL PLANT MATERIAL SHALL BE INSTALLED ACCORDING TO SOUND NURSERY PRACTICES AND SHALL MEET ALL STANDARDS AS STATED IN THE LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- 2. NO SUBSTITUTIONS IN PLANT MATERIALS SHALL BE MADE WITHOUT WRITTEN AUTHORIZATION FROM OWNER OR LANDSCAPE ARCHITECT. IN
- THE EVENT OF DISCREPANCIES BETWEEN THE DRAWING AND THE PLANT LIST, THE DRAWING SHALL PREVAIL. 3. LOCATE ALL UTILITIES PRIOR TO ANY DIGGING OPERATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO EXISTING
- UTILITIES INCURRED BY HIS WORK. 4. REFERENCE IRRIGATION PLAN FOR BED IRRIGATION INFORMATION.
- 5. STAKING AND GUYING ALTERNATIVES: METHODS INDICATED IN DRAWING DETAILS ARE PREFERRED. CONTRACTOR MAY SUGGEST ALTERNATE METHODS, ASSUMING FULL RESPONSIBILITY FOR THEIR IMPLEMENTATION. CONTRACTOR SHALL REPLACE, PLANT, OR UPRIGHT ANY TREES BLOWN OVER OR DAMAGED DUE TO INADEQUATE STAKING AT NO ADDITIONAL COST TO THE OWNER.
- 6. PLANTS MASSED IN BEDS SHALL BE ARRANGED USING TRIANGULAR SPACING.
- PROVIDE A STEEL EDGE OR CONCRETE MOW STRIP BETWEEN ALL PLANTING BEDS AND LAWN AREAS. REFERENCE SITE PLAN.
- 8. ALL PLANTING BEDS TO BE TOP DRESSED WITH A MINIMUM OF 3" SHREDDED HARDWOOD MULCH, UNLESS OTHERWISE SPECIFIED. 9. PROVIDE GRASS SEEDING OR LAY BERMUDA SOD FOR PROPOSED LAWN AREAS TO ALL EDGES OF PAVEMENT AND/ OR LIMITS OF
- DISTURBANCE OUTSIDE R.O.W. OR PROPOSED LANDSCAPE EASEMENT. PROVIDE IRRIGATION AS NECESSARY. 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL LANDSCAPING UNTIL FINAL ACCEPTANCE. ALL REQUIRED
- LANDSCAPING SHALL BE MAINTAINED IN A NEAT AND ORDERLY MANNER AT ALL TIMES. THE WORK SHALL INCLUDE, BUT NOT TO BE LIMITED TO, MOWING, EDGING, PRUNING, FERTILIZING, WATERING, WEEDING, AND OTHER SUCH ACTIVITIES COMMON TO THE MAINTENANCE OF LANDSCAPING. ALL PLANT MATERIALS SHALL BE MAINTAINED IN A HEALTHY AND GROWING CONDITION AS IS APPROPRIATE FOR THE SEASON OF THE YEAR. PLANT MATERIAL THAT DIES SHALL BE REPLACED WITH THE PLANT MATERIAL OF SIMILAR SIZE AND VARIETY.
- CONTRACTOR SHALL WARRANTY PLANT MATERIAL TO REMAIN ALIVE AND HEALTHY FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE. WARRANTY SHALL NOT INCLUDE DAMAGE FOR LOSS OF PLANT MATERIAL DUE TO NATURAL CAUSES, ACTS OF VANDALISM OR NEGLIGENCE ON THE PART OF THE OWNER.
- 12. ALL DISTURBED AREAS WITHIN LIMITS OF CONSTRUCTION NOT CALLED TO BE SODDED, SHALL BE REESTABLISHED WITH BERMUDA SOD AND
- 13. ALL LANDSCAPE BEDS TO HAVE TOPSOIL/BEDDING MIX THAT MEETS LANDSCAPE SPECIFICATIONS. INSTALL TO DEPTHS, PER PLANTING DETAILS (12" DEPTH MIN.) FINISHED GRADES OF PLANTING BEDS TO BE 2" BELOW FINISHED GRADE OF ADJACENT PAVING OR AS SHOWN ON GRADING PLAN.
- 14. ALL SOD AREAS TO RECEIVE 4" DEPTH (MIN) TOPSOIL PRIOR TO INSTALLATION. TOPSOIL SHALL BE NATURAL, FRIABLE, FERTILE, pH RANGE OF 5.5-7.4, AND FREE OF TRASH, DEBRIS, STONES, WEEDS, AND TWIGS/BRANCHES.
- 15. ALL DISTURBED AREAS IN R.O.W. TO BE RE-ESTABLISHED WITH BERMUDA SEED OR SOD AND IRRIGATED UNLESS OTHERWISE SHOWN ON
- 16. ALL TREES TO BE PLACED A MINIMUM OF 4' FROM ANY UTILITY.

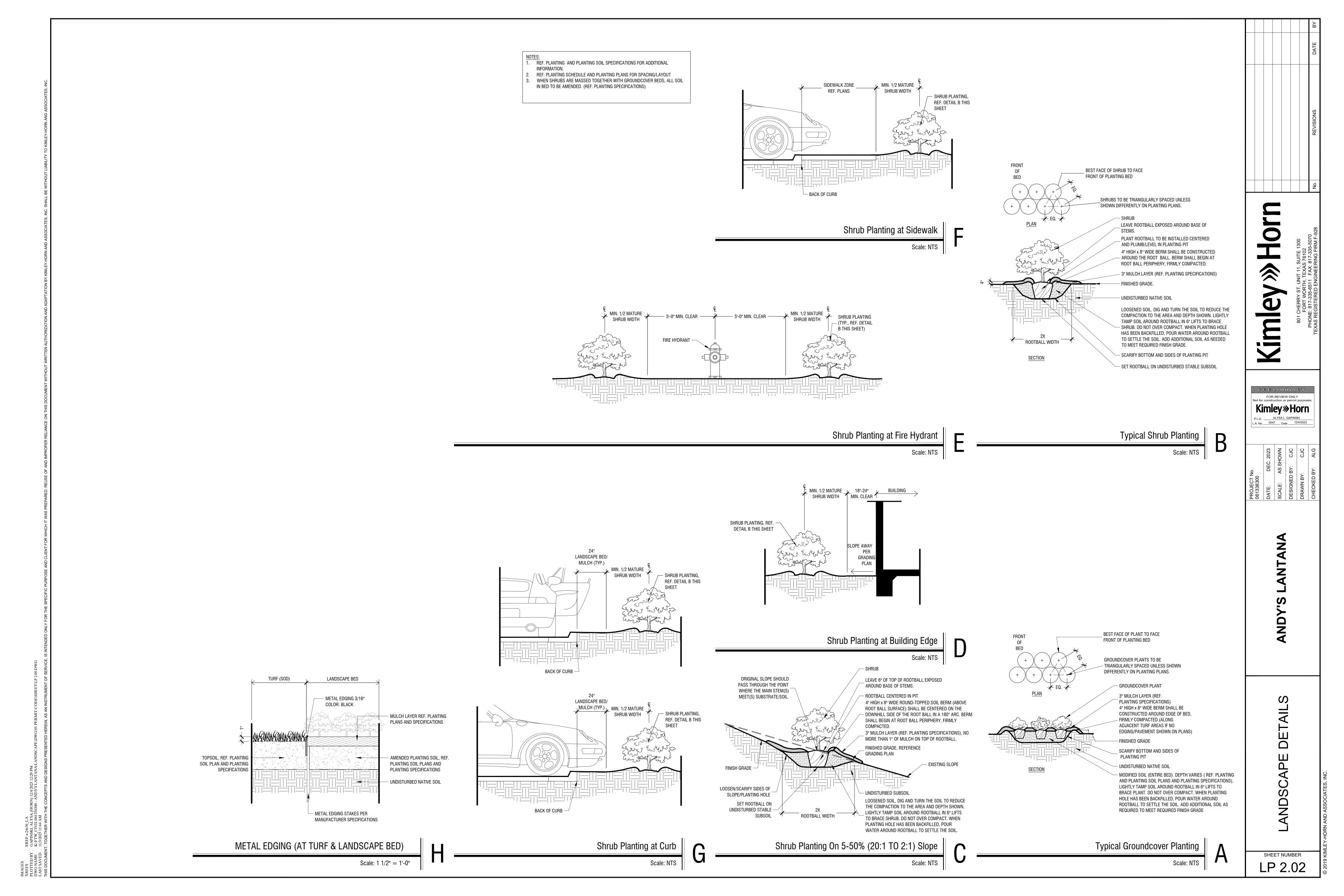


PRELIMINARY FOR REVIEW ONLY

Kimley »Horn

L.A. No. 3547 Date 12/4/2023





GENERAL LANDSCAPE SPECIFICATIONS AND NOTES

1. THE WORK CONSISTS OF FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS HEREIN SPECIFIED. 2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL PLANTING AREAS OF THIS CONTRACT UNTIL

ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, AND OTHER ITEMS OF CONSTRUCTION AND PLANTING ALREADY COMPLETED OR ESTABLISHED SHALL BE PROTECTED FROM DAMAGE BY THIS CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.

C. PROTECTION OF EXISTING PLANT MATERIALS OUTSIDE LIMIT OF WORK

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS EXISTING OR OTHERWISE, CAUSED BY CARELESS OPERATION OF EQUIPMENT STOCKPILING OF MATERIALS, ETC. THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIP-LINE OR THE SPILLING OF OIL. GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIP-LINE. NO MATERIALS SHALL BE BURNED WHERE THE HEAT WILL DAMAGE ANY PLANT. TREES KILLED OR DAMAGED SO THAT THEY ARE MISSHAPEN AND/ OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF ONE HUNDRED DOLLARS (\$100) PER CALIPER INCH ON AN ESCALATING SCALE WHICH ADDS AN ADDITIONAL TWENTY (20) PER CENT PER INCH OVER FOUR (4) INCHES CALIPER AS FIXED AND AGREED LIQUIDATED DAMAGES. CALIPER SHALL BE MEASURED SIX (6) INCHES ABOVE GROUND LEVEL FOR TREES UP TO AND INCLUDING FOUR (4) INCHES IN CALIPER AND TWELVE (12) INCHES ABOVE GROUND LEVEL FOR TREES OVER FOUR (4) INCHES IN CALIPER.

SAMPLES OF MATERIALS AS LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL, ON THE SITE OR AS OTHERWISE DETERMINED BY THE OWNER. UPON APPROVAL OF SAMPLES, DELIVERY OF MATERIALS MAY BEGIN.

MULCH ONE (1) CUBIC FOOT

PLANTS ONE (1) OF EACH VARIETY

A. PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. NOMENCLATURE SHALL CONFORM TO STANDARDIZED PLANT NAMES, 1942 EDITION. ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH GRADES AND STANDARDS AS STATED IN THE LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN. ALL PLANTS SHALL BE FRESHLY DUG. SOUND. HEALTHY. VIGOROUS. WELL-BRANCHED AND FREE OF DISEASE AND INSECTS, INSECT EGGS AND LARVAE AND SHALL HAVE ADEQUATE ROOT SYSTEMS. TREES FOR PLANTING IN ROWS SHALL BE UNIFORM IN SIZE AND SHAPE. ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST THE PLANTS FURNISHED SHALL BE NORMAL FOR THE VARIETY. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY

B. MEASUREMENTS: THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE GROUND OR ACROSS THE NORMAL SPREAD OF BRANCHES WITH THE PLANTS IN THEIR NORMAL POSITION. THIS MEASUREMENT SHALL NOT INCLUDE THE IMMEDIATE TERMINAL GROWTH. PLANTS LARGER IN SIZE THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED IF APPROVED BY THE OWNER. IF THE USE OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT

C. INSPECTION: PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER, FOR QUALITY, SIZE, AND VARIETY; SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION AT THE SITE DURING PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF BALLS OR ROOTS, LATENT DEFECTS OR INJURIES. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.

1. ASTM D5268, NATURAL, FRIABLE, FERTILE, FINE LOAMY SOIL POSSESSING CHARACTERISTICS OF

REPRESENTATIVE TOPSOIL IN THE VICINITY THAT PRODUCES HEAVY GROWTH. TOPSOIL SHALL HAVE A PH RANGE OF 5.5 TO 7.4 PERCENT, FREE FROM SUBSOIL, OBJECTIONABLE WEEDS, LITTER, SODS, STIFF CLAY, STONES LARGER THAN 1-INCH IN DIAMETER STUMPS ROOTS TRASH HERBICIDES TOXIC SUBSTANCES OR ANY OTHER MATERIAL WHICH MAY BE HARMFUL TO PLANT GROWTH OR HINDER PLANTING OPERATIONS TOP SOIL SHALL CONTAIN A MINIMUM OF THREE PERCENT ORGANIC MATERIAL

2. SALVAGED OR EXISTING TOPSOIL: REUSE SUITABLE TOPSOIL STOCKPILED ON-SITE OR EXISTING TOPSOIL UNDISTURBED BY GRADING OR EXCAVATION OPERATIONS. CLEAN TOPSOIL OF ROOTS, PLANTS, SOD STONES, CLAY LUMPS, AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH.

3. VERIFY AMOUNT OF SUITABLE TOPSOIL STOCKPILED IF ANY, AND SUPPLY ADDITIONAL IMPORTED TOPSOIL AS NEEDED. FOUR (4) INCHES OF TOPSOIL TO BE PROVIDED FOR ALL TURF AREAS. TWENTY FOUR (24 INCHES OF TOPSOIL TO BE PROVIDED FOR ALL PLANTING AREAS WITHIN INTERIOR LANDSCAPE ISLANDS AND FOUNDATION PLANTINGS. FOR ALL OTHER PLANTING AREAS, TWELVE (12) INCHES OF TOPSOIL MINIMUM TO

4. IMPORTED TOPSOIL: SUPPLEMENT SALVAGED TOPSOIL WITH IMPORTED TOPSOIL FROM OFF-SITE SOURCES WHEN EXISTING QUANTITIES ARE INSUFFICIENT

5. OBTAIN TOPSOIL DISPLACED FROM NATURALLY WELL-DRAINED SITES WHERE TOPSOIL OCCURS AT LEAST 6 INCHES DEEP: DO NOT OBTAIN FROM AGRICULTURAL LAND, BOGS, OR MARSHES

6. VERIFY BORROW AND DISPOSAL SITES ARE PERMITTED AS REQUIRED BY STATE AND LOCAL REGULATIONS. OBTAIN WRITTEN CONFIRMATION THAT PERMITS ARE CURRENT AND ACTIVE. 7. OBTAIN PERMITS REQUIRED BY STATE AND LOCAL REGULATIONS FOR TRANSPORTING TOPSOIL. PERMITS

8. AMEND EXISTING AND IMPORTED TOPSOIL AS INDICATED BELOW. a. ORGANIC SOIL AMENDMENTS

1. MANURE: WELL-ROTTED, UNLEACHED, STABLE OR CATTLE MANURE CONTAINING NOT MORE THAN 25 PERCENT BY VOLUME OF STRAW, SAWDUST, OR OTHER BEDDING MATERIALS; FREE NCES, STONES, STICKS, SOIL, WEED SEED, AND MATERIAL HARMFUL TO PLANT GROWTH.

2. BACK TO NATURE COTTON BURR COMPOST OR APPROVED EQUIVALENT.

3. COMPOST: DECOMPOSED ORGANIC MATERIAL INCLUDING LEAF LITTER, MANURE, SAWDUST, PLANT TRIMMINGS AND/OR HAY, MIXED WITH SOIL.

4. PECAN HULLS: COMPOSTED PECAN HULLS FOR LOCAL SOURCE

5. BIOSOLIDS: USE GRADE 1 CONTAINING LOWER PATHOGEN LEVELS. 6. WORM CASTINGS: EARTHWORMS.

b. INORGANIC SOIL AMENDMENTS

1. LIME: ASTM C602, CLASS O AGRICULTURAL LIMESTONE CONTAINING A MINIMUM OF 80 PERCENT CALCIUM CARBONATE EQUIVALENT WITH A MINIMUM OF 95 PERCENT PASSING NO. 8 SIEVE AND MINIMUM OF 55 PERCENT PASSING NO. 60 SIEVE.

2. SULFUR: GRANULAR, BIODEGRADABLE, CONTAINING A MINIMUM OF 90 PERCENT SULFUR, WITH A MINIMUM OF 99 PERCENT PASSING NO. 6 SIEVE AND A MAXIMUM OF 10 PERCENT

3. IRON SULFATE: GRANULATED FERROUS SULFATE CONTAINING A MINIMUM OF 20 PERCENT IRON AND 10 PERCENT SULFUR.

4. AGRICULTURAL GYPSUM: FINELY GROUND, CONTAINING A MINIMUM OF 90 PERCENT CALCIUM

5. SAND: CLEAN, WASHED, NATURAL OR MANUFACTURED, FREE OF TOXIC MATERIALS.

1. PLANTING MIX MAY BE PROVIDED BY LIVING EARTH OR MINICK MATERIALS OR APPROVED

2. PLANTING MEDIUM CONTAINING 75 PERCENT SPECIFIED TOPSOIL MIXED WITH 15 PERCENT ORGANIC SOIL AMENDMENTS AND 10 PERCENT SHARP WASHED SAND. INSTALL TO DEPTHS PER PLANTING DETAILS (12" MIN.) FINISHED GRADES OF PLANTING BEDS TO BE 2" BELOW FINISHED GRADE OF ADJACENT PAVING OR AS SHOWN ON GRADING PLAN.

2. SOD/SEED AREA TOPSOIL ALL SOD AREAS TO RECEIVE 4" DEPTH (MIN) TOPSOIL PRIOR TO INSTALLATION. TOPSOIL SHALL BE NATURAL, FRIABLE, FERTILE, WITH 25% (MIN.) ORGANIC MATERIAL, AND FREE OF TRASH, DEBRIS, STONES, WEEDS, AND TWIGS/BRANCHES. THE PARTICLE SIZES SHALL BE SUCH THAT 98.5% OF THE TOPSOIL WILL PASS THROUGH A 1/2 INCH SCREEN. AND 99% MORE SHALL PASS THROUGH A 3/4 INCH SCREEN. TOPSOIL SHALL BE REVIEWED/APPROVED BY OWNER/LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. CONTRACTOR TO SUBMIT SAMPLES

WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN AN ADEQUATE GROWTH OF PLANTS AND SHALL NOT CONTAIN HARMFUL, NATURAL OR MAN-MADE ELEMENTS DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE FROM THE OWNER. IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS. FOR ITS USE BY HIS TANKS, HOSES, SPRINKLERS, ETC. IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SUCH SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER.

COMMERCIAL FERTILIZER SHALL BE A COMPLETE FORMULA; IT SHALL BE UNIFORM IN COMPOSITION, DRY AND FREE FLOWING. THIS FERTILIZER SHALL BE DELIVERED TO THE SITE IN THE ORIGINAL UNOPENED CONTAINERS, EACH BEARING THE MANUFACTURER'S GUARANTEED STATEMENT OF ANALYSIS.

FIFTY PERCENT (50%) OF THE NITROGEN SHALL BE DERIVED FROM NATURAL ORGANIC SOURCES. THE FOLLOWING FERTILIZERS SHALL BE USED AND APPLIED AT RATES AS SUGGESTED BY MANUFACTURER'S

1. SHRUBS AND TREES - MILORGANITE, OR APPROVED EQUA ANNUALS AND GROUNDCOVERS - OSMOCOTE/SIERRA BLEND 14-14-14

IN ADDITION TO SURFACE APPLIED FERTILIZERS, ALL CONTAINER GROWN AND FIELD GROWN PLANT MATERIAL SHALL RECEIVE "AGRIFORM" PLANTING TABLETS 24-10-5 FORMULA, 21 GRAM OR EQUAL THESE TABLETS SHALL BE PLACED AT A DEPTH OF ROOT BALL AT THE RATE AS SPECIFIED BY

MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A DEPTH OF 3 INCHES. SEE PLANT LIST FOR TYPE OF MATERIAL

L. DIGGING AND HANDLING

1 PROTECT ROOTS OR BALLS OF PLANTS AT ALL TIMES FROM SLIN AND DRYING WINDS WATER AND FREEZING, AS NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT BREAKAGE AND DRYING OUT DURING TRANSIT. TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO SITE SHALL BE SPRAYED WITH AN ANTI-TRANSPIRANT PRODUCT ("WILTPRUF" OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS.

2. BALLED AND BURLAPPED PLANTS (B&B) SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL OF SUFFICIENT SIZE TO ENCOMPASS THE FIBROUS AND FEEDING ROOTS OF THE PLANTS. NO PLANTS MOVED WITH A BALL SHALL BE PLANTED IF THE BALL IS CRACKED OR BROKEN. PLANTS BALLED AND BURLAPPED OR CONTAINER GROWN SHALL NOT BE HANDLED BY STEMS.

3 PLANTS MARKED "BR" IN THE PLANT LIST SHALL BE DUG WITH BARE ROOTS. THE ROOTS SHALL NOT BE CUT WITHIN THE MINIMUM SPREAD SPECIFIED IN THE PLANT LIST. CARE SHALL BE EXERCISED THAT THE ROOTS DO NOT DRY OUT IN MOVING AND PRIOR TO PLANTING

4. PROTECTION OF PALMS (IF APPLICABLE): ONLY A MINIMUM OF FRONDS SHALL BE REMOVED FROM THE CROWN OF THE PALM TREES TO FACILITATE MOVING AND HANDLING. CLEAR TRUNK (CT) SHALL BE AS SPECIFIED AFTER THE MINIMUM OF FRONDS HAVE BEEN REMOVED. ALL PALMS SHALL BE BRACED

5. EXCAVATION OF TREE PITS SHALL BE DONE USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR HARDSCAPE ELEMENTS, FOOTERS AND PREPARED SUB- BASES.

M. CONTAINER GROWN STOCK

1. ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS AND ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION.

2 AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER. CONTAINER GROWN STOCK SHALL NOT BE HANDLED BY THEIR STEMS.

3. PLANT ROOTS BOUND IN CONTAINERS SHALL NOT BE ACCEPTABLE 4. SUBSTITUTION OF NON-CONTAINER GROWN MATERIAL FOR MATERIAL EXPLICITLY SPECIFIED TO BE

CONTAINER GROWN WILL NOT BE PERMITTED UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE OWNER AND LANDSCAPE ARCHITECT. N COLLECTED STOCK

WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED ON THE PLANT LIST SCHEDULE THE MINIMUM SIZES OF ROOTBALLS SHALL BE EQUAL TO THAT SPECIFIED FOR THE NEXT LARGER SIZE OF NURSERY GROWN STOCK OF THE SAME VARIETY

PLANTS COLLECTED FROM WILD OR NATIVE STANDS SHALL BE CONSIDERED NURSERY GROWN WHEN THEY HAVE BEEN SLICCESSELILLY REESTABLISHED IN A NURSERY ROW AND GROWN LINDER REGULAR NURSERY CULTURAL PRACTICES FOR A MINIMUM OF TWO (2) GROWING SEASONS AND HAVE ATTAINED ADEQUATE

ROOT AND TOP GROWTH TO INDICATE FULL RECOVERY FROM TRANSPLANTING INTO THE NURSERY ROW. P. MATERIALS LIST

QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE LANDSCAPE ARCHITECT OR OWNER ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS. SHOULD A DISCREPANCY OCCUR BETWEEN THE BIDDERS TAKE OFF AND THE PLANT LIST QUANTITY. THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO THE SUBMISSIONS OF BIDS. ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE

Q. FINE GRADING

1. FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. BERMING AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR, UNLESS OTHERWISE NOTED. 2. THE LANDSCAPE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOD AND/OR MULCH DEPTH. THIS CONTRACTOR SHALL FINE GRADE BY HAND AND/OR WITH ALL EQUIPMENT NECESSARY INCLUDING A GRADING TRACTOR WITH FRONT-END LOADER FOR TRANSPORTING SOIL WITHIN THE SITE. 3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS.

R. PLANTING PROCEDURES

1. CLEANING UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN UP WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER. ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE REMOVED FROM THE SURFACE OF ALL PLANT BEDS. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY ADVERSELY AFFECT THE PLANT GROWTH, HE SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT OR OWNER. FAILURE TO DO SO BEFORE PLANTING SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR

2. VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES, INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS (LINES AND TANKS), WATER, SANITARY SEWER, STORMWATER LINES, CABLE AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES.

3. SUBGRADE EXCAVATION: SITE CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMEROCK AND LIMEROCK SUB-BASE FROM ALL LANDSCAPE PLANTING AREAS TO A MINIMUM DEPTH OF 36". SITE CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH CLEAN TOPSOIL FROM AN ON-SITE SOURCE OR AN IMPORTED SOURCE. IF LIMEROCK OR OTHER ADVERSE CONDITIONS OCCUR IN PLANTED AREAS AFTER 36" DEEP EXCAVATION BY SITE CONTRACTOR, AND POSITIVE DRAINAGE CAN NOT BE ACHIEVED, LANDSCAPE CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT OR OWNER.

REQUIRED. INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTS ARE DUG AT NURSERY OR GROWING

5. GENERAL: COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK. CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE. PLANTS SHALL BE PROTECTED UPON ARRIVAL AT THE SITE BY BEING THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED. PLANTS SHALL NOT REMAIN UNPROTECTED FOR A PERIOD EXCEEDING TWENTY-FOUR (24) HOURS. AT ALL TIMES WORKMANLIKE METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES SHALL BE EXERCISED.

6. THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS. COORDINATE THE PLANTING WITH THE IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF

7. ALL PLANTING PITS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USA STANDARD FOR NURSERY STOCK 260.1. UNLESS SHOWN OTHERWISE ON THE DRAWINGS. AND BACKFILLED WITH THE PREPARED PLANTING SOIL AS SPECIFIED HEREIN BEFORE (SECTION H). TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER DRAINAGE. IF POOR DRAINAGE EXISTS. UTILIZE PLANTING DETAIL THAT ADDRESSES THIS CONDITION. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURE AND UNDER THE SUPERVISION OF A QUALIFIED PLANTING FOREMAN. PROPER "JETTING IN" SHALL BE ASSURED TO

ELIMINATE AIR POCKETS AROUND THE ROOTS. "JET STICK" OR EQUAL IS RECOMMENDED 8. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS AND BUILDING STRUCTURES

9. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION H OF THESE SPECIFICATIONS. IN ADDITION. EACH PLANTING PIT SHALL RECEIVE 21-GRAM "AGRIFORM" PLANTING TABLETS PER MANUFACTURER'S SPECIFICATIONS OR AS FOLLOWS:

- TWO (2) TABLETS PER 1 GAL. PLANT THREE (3) TABLETS PER 3 GAL, PLAN

WHILE INSTALLING TREES

IRRIGATION ITEMS AND PLANTS.

- FOUR (4) TABLETS PER 10 GAL PLAN LARGER MATERIAL - TWO (2) TABLETS PER 1/2" OF TRUNK CALIPER

10. TREES AND SHRUBS SHALL BE SET STRAIGHT AND AT SUCH A LEVEL THAT AFTER SETTLEMENT, THE PLANT CROWN WILL STAND ONE (1) TO TWO (2) INCHES ABOVE GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PIT. PLANTING SOIL MIXTURE SHALL BE BACKFILLED AND THOROUGHLY TAMPED AROUND THE BALL AND SHALL BE SETTLED BY WATER AFTER TAMPING.

11. FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH

WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES, STIRRING IF NECESSARY TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET. ADD MORE WET SOIL MIXTURE. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE, ONLY WITH MULCH, ALL BURLAP, ROPE, WIRES, ETC., SHALL BE REMOVED FROM THE SIDES AND TOPS OF BALLS, BUT NO BURLAP SHALL BE PULLED FROM UNDERNEATH 12. PRUNING: EACH TREE SHALL BE PRUNED TO PRESERVE THE NATURAL CHARACTER OF THE PLANT AS SHOWN ON THE DRAWINGS. ALL SOFT WOOD OR SUCKER GROWTH AND ALL BROKEN OR BADLY DAMAGED BRANCHES SHALL BE REMOVED WITH A CLEAN CUT

13. SHRUBS AND GROUND COVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED ON THE PLANT LIST. CULTIVATE ALL PLANTING AREAS TO A MINIMUM DEPTH OF 6", REMOVE AND DISPOSE ALL DEBRIS. TILL INTO TOP 4" THE PLANTING SOIL MIX AS SPECIFIED IN SECTION E. THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.

14. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE LANDSCAPE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. IF THE LANDSCAPE CONTRACTOR AND OWNER DECIDE TO WAIVE THE TREE GUYING AND BRACING, THE OWNER SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING OF THEIR INTENTIONS AND AGREE TO HOLD HARMLESS THE LANDSCAPE ARCHITECT IN THE EVENT ANY TREES FALL DOWN AND DAMAGE PERSON OR

15. MULCHING: PROVIDE A THREE (3) INCH MINIMUM LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB BED. GROUND COVER AND VINE BED AND TREE PI

16. HERBICIDE WEED CONTROL: ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. IF DIRECTED BY THE OWNER, "ROUND-UP" SHALL BE APPLIED FOR WEED CONTROL BY QUALIFIED PERSONNEL TO ALL PLANTING AREAS IN SPOT APPLICATIONS PER MANUFACTURER'S PRECAUTIONS AND SPECIFICATIONS. PRIOR TO FINAL INSPECTION, TREAT ALL PLANTING BEDS WITH AN APPROVED PRE-EMERGENT HERBICIDE AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER

S. LAWN SODDING

1. THE WORK CONSISTS OF LAWN BED PREPARATION. SOIL PREPARATION, AND SODDING COMPLETE. IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND THE APPLICABLE DRAWINGS TO PRODUCE A GRASS LAWN ACCEPTABLE TO THE OWNER.

2. LAWN BED PREPARATION: ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS, AND THE GROUND BROUGHT TO AN EVEN GRADE. THE WHOLE SURFACE SHALL BE ROLLED WITH A ROLLER WEIGHING NOT MORE THAN ONE-HUNDRED (100) POUNDS PER FOOT OF WIDTH. DURING THE ROLLING, ALL DEPRESSIONS CAUSED BY SETTLEMENT OF ROLLING

SHALL BE FILLED WITH ADDITIONAL SOIL, AND THE SURFACE SHALL BE REGRADED AND ROLLED UNTIL

PRESENTING A SMOOTH AND EVEN FINISH THAT IS UP TO THE REQUIRED GRADE 3. SOIL PREPARATION: PREPARE LOOSE BED FOUR (4) INCHES DEEP. APPLY FERTILIZER AT RATE OF VENTY (20) POUNDS PER ONE THOUSAND (1000) SQUARE FEET. APPLICATION SHALL BE UNIFORM UTILIZING APPROVED MECHANICAL SPREADERS. MIX FERTILIZER THOROUGHLY WITH THE SOIL TO A DEPTH OF THREE (3) INCHES. HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED. WET PREPARED AREA THOROUGHLY

A THE CONTRACTOR SHALL SOD ALL AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON

THE DRAWINGS WITHIN THE CONTRACT LIMITS. UNLESS SPECIFICALLY NOTED OTHERWISE. B. THE SOD SHALL BE CERTIFIED TO MEET THE STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY RUE TO VARIETAL TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND C. SOD PANELS SHALL BE LAID TIGHTLY TOGETHER SO AS TO MAKE A SOLID SODDED LAWN AREA. SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND PLANTED AREAS. ADJACENT TO BUILDINGS, A FOUR INCH MULCH STRIP SHALL BE PROVIDED. IMMEDIATELY FOLLOWING SOD LAYING. THE LAWN AREAS SHALL BE ROLLED WITH A LAWN. ROLLER CUSTOMARILY USED FOR SUCH PURPOSES, AND THEN THOROUGHLY IRRIGATED. IF, IN THE OPINION OF THE OWNER, TOP-DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND AS APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE SOD AND THOROUGHLY WATERED IN

D. DURING DELIVERY, PRIOR TO AND DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF THE ROOTS TO THE SUN. ALL SOD SHALL BE STACKED SO AS NOT TO BE DAMAGED BY SWEATING OR EXCESSIVE HEAT AND MOISTURE.

A PROVIDE FRESH CLEAN NEW CROP LAWN SEED MIXTURE FURNISH TO OWNER DEALERS GUARANTEED

STATEMENT OF COMPOSITION OF MIXTURE AND PERCENTAGE OF PURITY AND GERMINATION OF EACH VARIETY. B. SEED MIXTURE: PROVIDE SEED OF GRASS SPECIES AND VARIETIES, PROPORTIONS BY WEIGHT AND MINIMUM PERCENTAGES OF PURITY, GERMINATION, AND MAXIMUM PERCENTAGE OF WEED SEED, SEED MIXTURES VARY BY REGION AND SEASON AND SHALL COMPLY WITH STATE DO AND LOCAL SOIL CONSERVATION SERVICE

C. DO NOT PERFORM SEEDING IN WINDY CONDITIONS.

D. SEEDING SHALL BE DISPERSED IN 2 DIRECTIONS AT RIGHT ANGLES TO EACH OTHER.

E. PERMANENTLY SEED AND MULCH CUT AND FILL SLOPES AS CONSTRUCTION PROCEEDS TO EXTENT CONSIDERED DESIRABLE AND PRACTICAL. IN THE EVENT IT IS NOT PRACTICAL TO SEED AREAS, SLOPES SHALL BE STABILIZED WITH STRAW MULCH AND TACKIFIER, BONDED FIBER MATRIX, NETTING, BLANKETS OR OTHER MEANS TO REDUCE THE EROSIVE POTENTIAL OF THE AREA.

F. SEED LAWN AREAS BY SOWING EVENLY WITH APPROVED MECHANICAL SEEDER AT RATE OF MINIMUM OF 6 POUNDS PER 1,000 SQUARE FEET. AMOUNT WILL VARY BASED ON VARIETY AND/OR SPECIES. CULTI-PACKER OR APPROVED SIMILAR EQUIPMENT MAY BE USED TO COVER SEED AND TO FORM SEEDBED IN ONE OPERATION. IN AREAS INACCESSIBLE TO CUTI-PACKER. LIGHTLY RAKE SEEDED GROUND WITH FLEXIBLE RAKES AD ROLL WITH

WATER BALLAST ROLLER. AFTER ROLLING, MULCH WITH STRAW MULCH AT THE RATE OF 2 TONS PER ACRE. G. SURFACE LAYER OF SOIL FOR SEEDED AREAS SHALL BE KEPT MOIST DURING GERMINATION PERIOD. WATER SEEDED AREAS TWICE FIRST WEEK TO MINIMUM DEPTH OF 6 INCHES WITH FINE SPRAY AND ONCE PER WEEK HEREAFTER AS NECESSARY TO SUPPLEMENT NATURAL RAIN TO EQUIVALENT OF 6 INCHES DEPTH.

H. CONTRACTOR TO REAPPLY SEED AS NECESSARY IN ORDER TO GET ALL SEEDED AREAS ESTABLISHED AS

6. LAWN MAINTENANCE

A. WITHIN THE CONTRACT LIMITS. THE CONTRACTOR SHALL PRODUCE A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE-SODDING OF ALL ERODED. SUNKEN OR BARE SPOTS UNTIL CERTIFICATION OF ACCEPTABILITY BY THE LANDSCAPE ARCHITECT OR OWNER. REPAIRED SODDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK (INCLUDING REGRADING II

EVEN INTERVALS) FOR TWO (2) ADDITIONAL WEEKS. ALL WATERING SHALL BE OF SUFFICIENT QUANTITY TO WET OR RESTORE WATER TO DEPTH OF FOUR (4) INCHES. CONTRACTOR TO DETERMINE IF SITE IS IN A DROUGHT RESTRICTION AREA AND MUST FOLLOW CITY/ COUNTY PROTOCOL IF ANY ARE IN PLACE. T. CLEAN-UP

B. WATER EVERY DAY FOR TEN (10) SUCCESSIVE DAYS, THEN WATER THREE (3) TIMES PER WEEK (AT

UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE BROOM CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

U. PLANT MATERIAL MAINTENANCE

ALL PLANTS AND PLANTING INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPAIRING GUY SUPPORTS) NECESSARY TO INSURE A HEALTHY CONDITION BY THE CONTRACTOR LINTIL CERTIFICATION OF ACCEPTABÍLITY BY THE LANDSCAPE ARCHITECT OR OWNER. MAINTENANCE AFTER THE CERTIFICATION OF ACCEPTABILITY SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN THIS SECTION. CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE TO COVER LANDSCAPE AND IRRIGATION MAINTENANCE FOR A PERIOD OF 90 CALENDAR DAYS COMMENCING AFTER ACCEPTANCE.

V. MAINTENANCE (ALTERNATE BID ITEM) 1. CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE FOR MAINTENANCE FOLLOWING THE INITIAL 90-DAY MAINTENANCE PERIOD ON A COST PER MONTH BASIS.

W. GUARANTEE

1. THE LIFE AND SATISFACTORY CONDITION OF ALL PLANT MATERIAL INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE GUARANTEED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE LANDSCAPE ARCHITECT OR OWNER.

2. THE LIFE AND SATISFACTORY CONDITION OF ALL OTHER PLANT MATERIAL (INCLUDING SOD) INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE GUARANTEED BY THE CONTRACTOR FOR A MINIMUM OF 90 CALENDAR DAYS, COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE LANDSCAPE ARCHITECT OR OWNER.

3. REPLACEMENT: ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION AT THE END OF THE GUARANTEE PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED PLANTED AND MULCHED AS SPECIFIED UNDER "PLANTING". AT NO ADDITIONAL COST TO THE OWNER

4. IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE (AND IRRIGATION) MAINTENANCE, THE CONTRACTOR IS ENCOURAGED TO VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER. AND SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE. PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTH PLANT GROWTH. IT IS SUGGESTED SUCH SITE VISITS SHALL BE CONDUCTED A MINIMUM OF ONCE PER MONTH FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE.

X. FINAL INSPECTION AND ACCEPTANCE OF WORK

FINAL INSPECTION AT THE END OF THE GUARANTEE PERIOD SHALL BE ON PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY REPLACEMENT AT THIS TIME SHALL BE SUBJECT TO THE SAME ONE (1) YEAR GUARANTEE (OR AS SPECIFIED BY THE LANDSCAPE ARCHITECT OR OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED

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SHEET NUMBER

HUNTER ECO-INDICATOR TO BE PLACED IN ALL DRIP AREAS AT THE FURTHEST POINT OF EACH

ZONES LOWER THAN THE CAPACITY OF THE FLOW SENSOR ARE TO BE WIRED IN THE CONTROLLER WITH ANOTHER ZONE SO THAT THE FLOW SENSOR READS BOTH ZONES AS ONE ZONE IN ORDER TO MEET THE FLOW SENSOR'S LOWEST GPM REQUIREMENT. DRIP

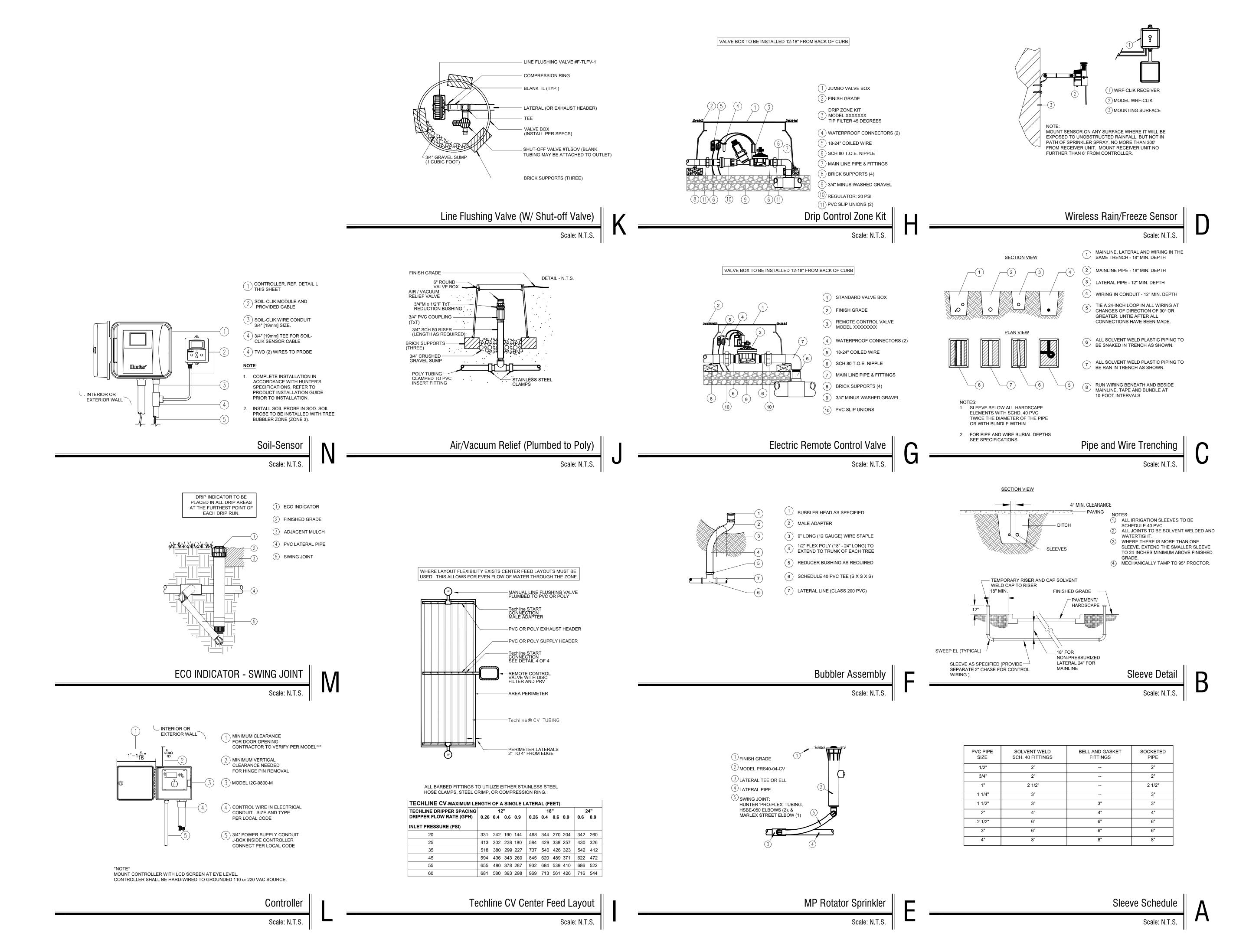
ZONES REQUIRED TO REMAIN PIPED AS SEPARATE ZONES.

DRIP RUN.

PRELIMINARY

FOR REVIEW ONLY Not for construction or permit purpos **Kimley Morn**

L.I. No. 0026724 Date 12/4/2023



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Kimley» Horn

LI. KENZIE L. PORTER

L.I. No. 0026724 Date 12/4/2023

L.I. KENZIE L. PORTER

L.I. No. 0026724 Date 12/4/2023

REAL STATE OF THE PORTER 12/4/2023

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DATE: DEC. 2023
SCALE: AS SHOWN
DESIGNED BY: CJC

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RIGATION DETAIL

SHEET NUMBER
LI 2.01

COORDINATE IRRIGATION INSTALLATION WITH PLANTING PLAN AND SITE CONDITIONS TO PROVIDE COMPLETE 100% COVERAGE WITH MINIMUM OVERSPRAY. THE IRRIGATION CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO ENSURE PROPER COVERAGE AT NO ADDITIONAL COST TO THE OWNER.

ALL CONSTRUCTION SHALL CONFORM TO CITY, COUNTY, STATE, AND FEDERAL REQUIREMENTS. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ENSURE THAT ALL IRRIGATION EQUIPMENT MEETS GOVERNMENT REGULATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS OR APPROVALS PRIOR TO COMMENCEMENT OF OPERATIONS ON-SITE. COPIES OF THE PERMITS SHALL BE SENT TO THE OWNER/GENERAL CONTRACTOR.

LATERAL PIPE SHALL BE INSTALLED AT A MINIMUM DEPTH OF 12 INCHES. MAINLINE PIPE AND WIRES SHALL BE INSTALLED AT A MINIMUM DEPTH OF 18 INCHES.

ELECTRICAL POWER SHALL BE PROVIDED WITHIN 5 FEET OF CONTROLLER LOCATION BY GENERAL CONTRACTOR. LICENSED IRRIGATION CONTRACTOR TO PROVIDE FINAL HARD WIRE TO CONTROLLER.

24 VOLT VALVE WIRE SHALL BE A MINIMUM OF 14 GAUGE, U.L. APPROVED FOR DIRECT BURIAL, SINGLE CONDUCTOR "IRRIGATION WIRE". CONTRACTOR TO CONFIRM WIRE SIZE PRIOR TO INSTALLATION. WIRE SPLICES SHALL BE ENCASED IN A WATERPROOF WIRE CONNECTOR UL APPROVED AND FILLED WITH SILICONE.

IRRIGATION VALVES AND VALVE BOXES SHALL BE LOCATED IN LANDSCAPE BEDS OR GROUNDCOVER AREAS WHENEVER POSSIBLE. ALL REMOTE VALVE BOXES SHALL BE SET FLUSH WITH FINISHED GRADE AND CONTAIN ONE CUBIC FOOT OF CLEAN GRAVEL BENEATH VALVE. LABEL REMOTE BOXES WITH ONE-INCH ALPHA NUMERIC NOTATION CORRESPONDING TO THE APPLICABLE ALPHA CONTROLLER AND NUMERIC STATION. USE 10" ROUND VALVE BOXES FOR ELECTRIC VALVES AND QUICK COUPLING VALVES. USE 15" X 9.5" RECTANGULAR BOX FOR DRIP VALVES UNLESS NOTED OTHERWISE. DOUBLE CHECK ASSEMBLY SHALL BE BOXED ACCORDING TO LOCAL CODES

USE PVC SWING JOINT ASSEMBLIES TO CONNECT ALL SPRAY AND ROTOR HEADS.

CONTRACTOR IS TO CONTACT APPROPRIATE AUTHORITIES AND LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, EQUIPMENT QUANTITIES, AND UTILITY LOCATIONS PRIOR TO BEGINNING WORK.

SLEEVES SHALL BE INSTALLED BY GENERAL CONTRACTOR UNLESS OTHERWISE NOTED. SLEEVE MATERIAL SHALL BE PVC, SCHD. 40. CONTRACTOR SHALL EXTEND SLEEVES 18 INCHES BEYOND EDGE OF ALL PAVEMENT, ELECTRICAL WIRES FOR IRRIGATION VALVES AND IRRIGATION LINES ARE TO BE PLACED IN SEPARATE SLEEVES. SEE SLEEVING DETAIL. ALL PRESSURE MAINLINES UNDER ASPHALT PAVEMENT SHALL BE PLACED WITHIN SLEEVES AS NOTED.

. DRIP LINE SHALL BE PLACED A MINIMUM OF 2" UNDER MULCH.

L LICENSED IRRIGATION CONTRACTOR SHALL ADJUST SPRAY NOZZLES FOR "HEAD-TO-HEAD" COVERAGE AND ADJUST FOR MINIMUM OVERSPRAY ONTO PAVEMENT. NO OVERSPRAY IS PERMITTED ONTO STREETS OR SIDEWALKS.

IRRIGATION CONTRACTOR SHALL SUPPLY AND CONSTRUCT IRRIGATION SYSTEM WITH ALL MATERIALS AND PER MANUFACTURER SPECIFICATIONS SHOWN ON THIS PLAN. IF CONTRACTOR PREFERS MATERIALS THAT DIFFER FROM THE THIS PLAN, THEY SHALL BE APPROVED BY THE IRRIGATION DESIGNER PRIOR TO CONSTRUCTION.

4. VERIFY CONTROLLER AND RAIN SENSOR LOCATION AND MAINLINE POINT OF CONNECTION AT PROJECT SITE WITH OWNER.

i. EXISTING TREES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. DO NOT TRENCH OR EXCAVATE WITHIN THE CRITICAL ROOT

: IRRIGATION LATERAL LINES, MAIN LINES AND EQUIPMENT MAY BE SHOWN OUTSIDE PROPERTY LINES ON THIS PLAN, ALL IRRIGATION LINES AND EQUIPMENT ARE TO BE WITHIN AND INSTALLED WITHIN THE LIMITS OF THE PROPERTY LINE.

SUPPLY LINE AND METER TO BE PROVIDED BY GENERAL CONTRACTOR. BACKFLOW PREVENTER TO BE PROVIDED BY IRRIGATION CONTRACTOR. IRRIGATION CONTRACTOR'S POINT OF CONNECTION TO BEGIN AFTER THE IRRIGATION WATER METER.

8. IRRIGATION CONTRACTOR SHALL REVIEW WINTERIZATION PROCEDURES FOR IRRIGATION SYSTEM WITH OWNERS

9. ALL PLANT MATERIAL IN TREE HOLDING AREAS SHALL BE MANUALLY WATERED/IRRIGATED TO KEEP MOIST UNTIL PLANTED.

0. MAINLINE, VALVES, AND WIRING ARE SHOWN ON DRAWINGS FOR CLARITY, SHOULD BE LOCATED IN ACCESSIBLE GREEN SPACE. CONTRACTOR TO COORDINATE WITH ALL DISCIPLINES TO AVOID CONFLICTS WITH UTILITIES/ STRUCTURES, ETC.

I. INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY COMPLETION OF ALL WORK ON THE SITE.

22. SET SPRAY HEADS 4" FROM BACK OF CURB OR 24" IF PAVEMENT HAS NO CURB.

23. CONTRACTOR SHALL PROVIDE "AS-BUILT" DRAWINGS OF THE FINAL INSTALLATION TO OWNER AT SUBSTANTIAL COMPLETION BEFORE RECEIVING FINAL PAYMENT. "AS-BUILT" DRAWINGS TO BE COLOR CODED BY ZONE ON 8.5" X 11", LAMINATED, AND PLACED

24. ALL DRIP ZONES SHALL BE INSTALLED WITH A SELF-FLUSHING DISC FILTER. OR APPROVED EQUAL.

25. INSTALL ALL IRRIGATION COMPONENTS AS PER MANUFACTURERS REQUIREMENTS.

26. IRRIGATION HEADS AND COMPONENTS SHALL BE LOCATED A MINIMUM OF 24" FROM ALL BUILDINGS TO AVOID ADVERSE PERFORMANCE OF FOUNDATIONS AND SLABS.

10" PLASTIC BOX -

MASTER VALVE -

27. NO LATERALS LESS THAN 3/4" DIAMETER.

GENERAL IRRIGATION SPECIFICATIONS AND NOTES

INCLUDES FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT FOR THE PROPER INSTALLATION OF THE IRRIGATION SYSTEM. THE WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING: (1) TRENCHING AND BACKFILL, (2) AUTOMATICALLY CONTROLLED LOW VOLUME IRRIGATION SYSTEM, (3) TEST ALL SYSTEMS AND MAKE OPERATIVE, (4) "AS-BUILT" DRAWINGS.

B. GENERAL:

5. INSPECTION OF SITE:

1. PERMITS AND FEES: OBTAIN ALL PERMITS AND PAY REQUIRED FEES TO ANY GOVERNMENTAL AGENCY HAVING JURISDICTION OVER THE WORK. INSPECTIONS REQUIRED BY LOCAL ORDINANCES DURING THE COURSE OF CONSTRUCTION SHALL BE ARRANGED AS REQUIRED. ON COMPLETION OF THE WORK, SATISFACTORY EVIDENCE SHALL BE FURNISHED TO THE OWNER'S CONSTRUCTION REPRESENTATIVE TO SHOW THAT ALL WORK HAS BEEN INSTALLED IN ACCORDANCE WITH THE STATE AND LOCAL BUILDING/ PLUMBING CODE AND ALL OTHER CODE

2. APPROVAL: WHEREVER THE TERMS "APPROVE" OR "APPROVED" ARE USED IN THE SPECIFICATIONS, THEY SHALL MEAN THE APPROVAL OF THE OWNER'S CONSTRUCTION REPRESENTATIVE IN WRITING.

3. BEFORE ANY WORK IS STARTED, A CONFERENCE SHALL BE HELD BETWEEN THE CONTRACTOR AND THE OWNER'S CONSTRUCTION REPRESENTATIVE CONCERNING THE WORK UNDER THIS CONTRACT.

4. COORDINATION: COORDINATE AND COOPERATE WITH OTHER CONTRACTORS TO ENABLE THE WORK TO PROCEED AS RAPIDLY AND EFFICIENTLY AS POSSIBLE

A CONTRACTOR SHALL ACQUAINT THEMSELVES WITH ALL SITE CONDITIONS. SLIBMISSION OF THEIR PROPOSAL SHALL BE CONSIDERED EVIDENCE THAT THE EXAMINATION HAS BEEN CONDUCTED. SHOULD UTILITIES NOT SHOWN. ON THE PLANS BE FOUND DURING EXCAVATIONS CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S CONSTRUCTION REPRESENTATIVE FOR INSTRUCTIONS AS TO FURTHER ACTION. FAILURE TO DO SO WILL MAKE CONTRACTOR LIABLE FOR ANY AND ALL DAMAGE THERETO ARISING FROM HIS OPERATIONS SUBSEQUENT TO DISCOVERY OF SUCH UTILITIES NOT SHOWN IN PLANS.

B. CONTRACTOR SHALL MAKE NECESSARY AD ILISTMENTS IN THE LAYOUT AS MAY BE REQUIRED TO CONNECT TO EXISTING STUBOUTS. SHOULD SUCH STUBS NOT BE LOCATED EXACTLY AS SHOWN, AND AS MAY BE REQUIRED TO WORK AROUND EXISTING WORK AT NO INCREASE IN COST TO THE OWNER'S CONSTRUCTION REPRESENTATIVE.

6. PROTECTION OF EXISTING PLANTS AND SITE CONDITIONS: THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT SITE CONDITIONS TO REMAIN. SHOULD DAMAGE BE INCURRED, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

7. THE OWNER RESERVES THE RIGHT TO SUBSTITUTE, ADD, OR DELETE ANY MATERIAL OR WORK AS THE WORK PROGRESSES. ADJUSTMENTS TO THE CONTRACT PRICE SHALL BE NEGOTIATED IF DEEMED NECESSARY BY THE

8. THE OWNER RESERVES THE RIGHT TO REJECT MATERIAL OR WORK WHICH DOES NOT CONFORM TO THE

CONTRACT DOCUMENTS. REJECTED WORK SHALL BE REMOVED OR CORRECTED AT THE EARLIEST TIME POSSIBLE. 9. WORK SCHEDULE: WITHIN 10 DAYS AFTER AWARD OF THE CONTRACT, THE CONTRACTOR SHALL SUBMIT TO THE

OWNER A WORK SCHEDULE 10. "AS-BUILT" IRRIGATION DRAWINGS: PREPARE AN "AS-BUILT" DRAWING ON A FULL-SIZE PLAN SET WHICH SHALL SHOW DEVIATIONS FROM THE BID DOCUMENTS MADE DURING CONSTRUCTION AFFECTING THE MAIN LINE PIPE, CONTROLLER LOCATIONS, REMOTE CONTROL VALVES AND QUICK COUPLING VALVES. THE DRAWINGS SHALL ALSO INDICATE AND SHOW APPROVED SUBSTITUTIONS OF SIZE, MATERIAL AND MANUFACTURERS NAME AND CATALOG NAME AND CATALOG NUMBER. THE DRAWINGS SHALL BE DELIVERED TO THE TENANT'S CONSTRUCTION

11. FINAL ACCEPTANCE: FINAL ACCEPTANCE OF THE WORK MAY BE OBTAINED FROM THE OWNER'S CONSTRUCTION REPRESENTATIVE UPON THE SATISFACTORY COMPLETION OF ALL WORK.

12. GUARANTEE: ALL WORK SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF ACCEPTANCE AGAINST ALL DEFECTS IN MATERIAL. EQUIPMENT AND WORKMANSHIP, GUARANTEE SHALL ALSO COVER REPAIR OF DAMAGE TO ANY PART OF THE PREMISES RESULTING FROM LEAKS OR OTHER DEFECTS IN MATERIAL. EQUIPMENT AND WORKMANSHIP TO THE SATISFACTION OF THE TENANT'S CONSTRUCTION REPRESENTATIVE. REPAIRS, IF REQUIRED, SHALL BE DONE PROMPTLY AT NO COST TO THE OWNER.

13. A LAMINATED PLAN (8 1/2 X 11) SHOWING THE DIFFERENT IRRIGATION ZONES IN COLOR, PREPARED BY THE IRRIGATION CONTRACTOR, SHALL BE POSTED IN THE MECHANICAL ROOM OR WITHIN CONTROLLER CABINET.

C. MATERIALS:

1. GENERAL: ALL MATERIALS THROUGHOUT THE SYSTEM SHALL BE NEW AND IN PERFECT CONDITION. 2. PLASTIC PIPING: ALL MAIN LINES AND LATERAL LINES SHALL BE CLASS 200 POLYVINYL CHLORIDE (PVC) PIPE AND SHALL COMPLY WITH ONE OF THE FOLLOWING STANDARDS: ASTM D 1785, ASTM D-2241, AWWA C-900, OR AWWA C-905 SDR-PR PIPE SHALL HAVE A MINIMUM WALL THICKNESS AS REQUIRED BY SDR-26 PVC GASKETS FITTINGS SHALL CONFORMING TO ASTMID 3139, GASKETS SHALL CONFORM TO ASTMIF 477, SOLVENT-WELD BYC FITTINGS SHALL MEET THE REQUIREMENTS OF SCHEDULE 40 AS SET FORTH IN ASTM D 2466. THREADED PVC PIPE FITTINGS SHALL MEET THE REQUIREMENTS OF SCHEDULE 40 AS SET FORTH IN ASTM D 2464. CONFORMING TO ASTM D-1784

3. PLASTIC FITTINGS: ALL SOLVENT-WELD PVC FITTINGS SHALL MEET THE REQUIREMENTS OF SCHEDULE 40 AS SET FORTH IN ASTM D 2466. SCHEDULE 40 SOLVENT-WELD, POLYVINYL CHLORIDE (PVC) STANDARD WEIGHT AS MANUFACTURED BY SLOANE, LASCO, OR APPROVED EQUAL.

4. SOLVENT CEMENT: PVC CEMENT SHALL MEET ASTM D 2564 AND PVC CLEANER-TYPE SHALL MEET ASTM F 656.

5. SPRINKLER HEAD RISERS: SCHEDULE 40 PVC FOR RISERS. PIPE SHALL BE CUT WITH A STANDARD PIPE CUTTING TOOL WITH SHARP CUTTERS, REAM ONLY TO FULL DIAMETER OF PIPE AND CLEAN ALL ROUGH EDGES OR BURRS. CUT ALL THREADS ACCURATELY WITH SHARP DIES. NOT MORE THAN THREE(3) FULL THREADS SHALL SHOW BEYOND FITTINGS WHEN PIPE IS MADE UP ASSEMBLIES SHALL BE AS DETAILED.

6. AUTOMATIC CONTROLLER: SEE LEGEND 7. REMOTE CONTROL VALVES: SEE LEGEND

REPRESENTATIVE BEFORE FINAL ACCEPTANCE OF WORK

8. CONTROL WIRING: CONVENTIONAL SYSTEMS TO USE 24 VOLT SOLID UL APPROVED FOR DIRECT BURIAL IN GROUND. MINIMUM WIRE SIZE: 14 GAUGE. ALL SPLICES SHALL BE MADE WITHIN VALVE BOX. TWO-WIRE SYSTEMS TO UTILIZE CONTROL WIRING PER MANUFACTURER STANDARDS.

9. SLEEVES FOR CONTROL WIRING: UNDER ALL WALKS AND PAVED AREAS AND WHERE INDICATED ON DRAWINGS. MINIMUM PVC SCHEDULE 40 PLASTIC PIPE

10. SPRINKLER HEADS/ DRIP LINE: SEE LEGEND 11. QUICK COUPLING VALVES: SHALL BE NOTED ON DRAWINGS.

D. WORKMANSHIP:

1. LAY OUT WORK AS ACCURATELY AS POSSIBLE TO THE DRAWINGS. THE DRAWINGS, THOUGH CAREFULLY DRAWN, ARE GENERALLY DIAGRAMMATIC TO THE EXTENT THAT SWING JOINTS, OFFSETS, AND ALL FITTINGS ARE NOT

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULL AND COMPLETE COVERAGE OF ALL IRRIGATED AREAS AND SHALL MAKE ANY NECESSARY MINOR ADJUSTMENTS AT NO ADDITIONAL COST TO THE OWNER'S CONSTRUCTION

3. ANY MAJOR REVISIONS TO THE IRRIGATION SYSTEM MUST BE SUBMITTED AND ANSWERED IN WRITTEN FORM, ALONG WITH ANY CHANGE IN CONTRACT PRICE.

E. INSTALLATION:

1. EXCAVATION AND TRENCHING

A. PERFORM ALL EXCAVATIONS AS REQUIRED FOR THE INSTALLATION OF THE WORK INCLUDING UNDER THIS SECTION, INCLUDING SHORING OF EARTH BANKS TO PREVENT CAVE-INS. RESTORE ALL SURFACES, EXISTING UNDERGROUND INSTALLATIONS, ETC., DAMAGED OR CUT AS A RESULT OF THE EXCAVATIONS TO AND IN A MANNER APPROVED BY THE OWNER

B. TRENCHES SHALL BE MADE WIDE ENOUGH TO ALLOW A MINIMUM OF 6 INCHES BETWEEN PARALLEL PIPE LINES. TRENCHES FOR PIPE LINES SHALL BE MADE OF SUFFICIENT DEPTHS TO PROVIDE THE MINIMUM COVER FROM FINISH **GRADE AS FOLLOWS:**

NON-PRESSURIZED LATERALS.

C. MAINTAIN ALL WARNING SIGNS, SHORING, BARRICADES, FLARES AND RED. LANTERNS AS REQUIRED BY THE SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY AND LOCAL ORDINANCES.

A. INSTALL REMOTE CONTROL VALVES WHERE SHOWN AND GROUP TOGETHER WHERE PRACTICAL, PLACE NO

B. PLASTIC PIPE AND FITTINGS SHALL BE SOLVENT WELDED USING SOLVENTS AND METHODS RECOMMENDED BY

BE THOROUGHLY CLEANED OF DIRT, DUST AND MOISTURE BEFORE APPLYING SOLVENT WITH A NON-SYNTHETIC

C. PIPE MAY BE ASSEMBLED AND WELDED ON THE SURFACE. SNAKE PIPE FROM SIDE TO SIDE OF TRENCH BOTTOM TO ALLOW FOR EXPANSION AND CONTRACTION.

1. PIPE SIZES 2 1/2 INCH OR SMALLER SHALL HAVE BELL AND SOCKET JOINTS.

3. THRUST BLOCKING SHALL BE REQUIRED WHEN PIPE SIZE IS 4" OR GREATER.

A. INSTALL ALL SPRINKLERS/ DRIPLINE AS DETAILED ON DRAWINGS.

B. DO NOT SCALE PLANS FOR EXACT HEAD LOCATION.

4. CLOSING OF PIPE AND FLUSHING LINES:

MATERIALS THAT WOULD OBSTRUCT THE PIPE. LEAVE IN PLACE UNTIL REMOVAL IS NECESSARY FOR COMPLETION

B. THOROUGHLY FLUSH OUT ALL WATER LINES BEFORE INSTALLING HEADS, DRIPLINE, VALVES AND OTHER

HEADS FOR PROPER DISTRIBUTION.

A. SPRINKLER/ DRIPLINE LAYOUT AND SPACING INSPECTION: VERIFICATION THAT THE IRRIGATION DESIGN IS ACCURATELY INSTALLED IN THE FIELD. IT WILL ALSO PROVIDE FOR ALTERATION OR MODIFICATION OF THE SYSTEM TO MEET FIELD CONDITIONS. SPACING SHOULD BE WITHIN 5% OF THE DESIGN SPACING. B. PIPE INSTALLATION DEPTH INSPECTION: ALL PIPES IN THE SYSTEM SHALL BE INSTALLED TO DEPTHS AS

C. OPEN TRENCH INSPECTION: THE TRENCH AND ALL JOINTS AND EVERY TRANSITION IN PIPE SIZE, WILL BE OPEN WHERE OPEN TRENCH INSPECTION IS REQUIRED.

D. INSPECTIONS WILL BE PERFORMED THROUGHOUT THE DURATION OF THE INSTALLATION. INSPECTION MAY BE MADE BY THE GOVERNING AGENCY/ OWNER TO ENSURE COMPLIANCE WITH DESIGN INTENT, SPECIFICATIONS, AND

A. REQUEST THE PRESENCE OF THE OWNER AND/OR OWNERS REPRESENTATIVE IN WRITING AT LEAST 48 HOURS IN

B. TESTING TO BE ACCOMPLISHED AT THE EXPENSE OF THE CONTRACTOR AND IN THE PRESENCE OF THE OWNER.

C. CENTER LOAD PIPING WITH SMALL AMOUNT OF BACKFILL TO PREVENT ARCHING OR SLIPPING UNDER PRESSURE D. APPLYING A CONTINUOUS AND STATIC WATER PRESSURE OF 125 PSI WHEN WELDED PLASTIC JOINTS HAVE

PER HOUR AS DETERMINED BY THE FOLLOWING FORMULA:

N=NUMBER OF JOINTS D=PIPE DIAMETER IN INCHES

F. REPAIR LEAKS RESULTING FROM TESTS.

A. CONNECT REMOTE CONTROL VALVES TO CONTROLLER IN A CLOCKWISE SEQUENCE TO CORRESPOND WITH STATION SETTING BEGINNING WITH STATIONS 1, 2, 3, ETC.

B. INSTALL CONTROL WIRES AT LEAST 18" BELOW FINISHED GRADE AND SNAKE WIRE SIDE TO SIDE IN TRENCH BELOW MAIN LINE. EXPANSION CURLS SHALL BE PROVIDED WITHIN THREE (3') FEET OF EACH WIRE CONNECTION TO SOLENOID AND AT LEAST EVERY THREE HUNDRED (300') FEET IN LENGTH. (EXPANSION CURLS ARE FORMED BY WRAPPING AT LEAST FIVE (5) TURNS OF WIRE AROUND A ROD OR

D. ALL WIRING PASSING UNDER EXISTING OR FUTURE PAVING, CONSTRUCTION, ETC., SHALL BE ENCASED IN PLASTIC OR GALVANIZED STEEL CONDUIT EXTENDING AT LEAST 24" BEYOND EDGES OF PAVING OR CONSTRUCTION E. CONTRACTOR SHALL RUN TWO SPARE WIRES IN EACH DIRECTION FROM CONTROLLER TO FARTHEST VALVE TO

9. BACKFILL AND COMPACTING:

EXCAVATIONS AND TRENCHES WITH CLEAN SOIL. FREE OF RUBBISH. INITIAL BACKFILL MATERIAL TO 6 INCHES ABOVE THE TOP OF PIPE SHALL BE FREE OF ROCKS OR STONES LARGER THAN ONE INCH IN DIAMETER FINAL BACKFILL MATERIAL SHALL BE FREE OF ROCKS OR STONES LARGER THAN 3 INCHES IN DIAMETER.

B. BACKFILL FOR ALL TRENCHES, REGARDLESS OF THE TYPE OF PIPE COVERED, SHALL BE COMPACTED TO

C. COMPACT TRENCHES IN AREAS TO BE PLANTED BY THOROUGHLY FLOODING THE BACKFILL. JETTING PROCESS MAY BE USED IN THOSE AREAS.

1. REMOVE FROM THE SITE ALL DEBRIS RESULTING FROM WORK OF THIS SECTION.

1) 24" MINIMUM BELOW BOTTOM PAVEMENT PER SLEEVING INSTALLATION DETAIL FOR MAIN LINE.18" MINIMUM FOR

2) MINIMUM COVER OVER IRRIGATION LINES TO HEADS/ DRIPLINE EXCEPT VEHICLE TRAFFIC

AREAS ARE AS FOLLOWS: 12" COVER OVER LATERALS 18" COVER OVER MAINLINE

CLOSER THAN 12-18 INCHES TO WALK EDGES. WALLS. AND OTHER PAVEMENTS. PLACE A MINIMUM OF 24" FROM

MANUFACTURER OF THE PIPE, EXCEPT WHERE SCREWED CONNECTIONS ARE REQUIRED. PIPE AND FITTINGS SHALL

D. MAKE ALL CONNECTIONS BETWEEN PLASTIC PIPE AND METAL VALVES OR STEEL PIPE WITH THREADED FITTINGS USING PLASTIC MALE ADAPTERS.

2. PIPE SIZES LARGER THAN 2 1/2 INCH SHALL HAVE SNAP CONNECTIONS WITH RUBBER GASKET JOINTS.

3. SPRINKLER HEADS/ DRIPLINE:

A. CAP OR PLUG ALL OPENINGS AS SOON AS LINES HAVE BEEN INSTALLED TO PREVENT THE ENTRANCE OF OF INSTALLATION.

C. TEST IN ACCORDANCE WITH PARAGRAPH ON HYDROSTATIC TESTS. D. UPON COMPLETION OF THE TESTING, THE CONTRACTOR SHALL COMPLETE ASSEMBLY AND ADJUST SPRINKLER

5. INSPECTIONS:

PREVIOUSLY DESCRIBED IN SECTION 'E' OF THESE SPECIFICATIONS.

THE IRRIGATION CODES.

CURED AT LEAST 3 HOURS AND WITH THE RISERS CAPPED AS FOLLOWS:) MAIN LINES AND SUBMAINS TO BE TESTED

2) NO PRESSURE LOSS IS ALLOWED FOR SOLVENT WELD MAINLINE/ PIPE

E. FOR PVC AND O-RING GASKET PIPE THE ALLOWABLE LEAKAGE SHALL NOT EXCEED THE NUMBER OF GALLONS

IN WHICH: L=ALLOWABLE LEAKAGE, IN GALLONS PER HOUR

P=AVERAGE TEST PRESSURE IN PSI GAUGE

7. AUTOMATIC CONTROLLERS

8. AUTOMATIC CONTROL WIRING: A. INSTALL CONTROL WIRING, SPRINKLER MAINS AND LATERALS IN COMMON TRENCHES WHEREVER POSSIBLE.

PIPE 1" OR MORE IN DIAMETER, THEN WITHDRAWING THE ROD). C. CONTROL WIRE SPLICES WILL BE ALLOWED ONLY RUNS OVER 1000 FT. CONNECTIONS SHALL BE IN VALVE BOX AND LOCATION TO BE SHOWN ON AS-BUILT PLANS.

A AFTER SYSTEM IS OPERATING AND REQUIRED TESTS AND INSPECTIONS HAVE BEEN MADE BACKELL

D. DRESS OFF ALL AREAS TO FINISH GRADES.

10. PROTECTIVE RADIUS OF EXISTING TREES: A. AN AUGER IS TO BE USED TO TUNNEL UNDER EXISTING TREES IF IRRIGATION IS INSTALLED WITHIN THE PROTECTIVE RADIUS OF EXISTING TREES AND ONLY IF THERE IS NO OTHER OPTION OR TO DO SO CREATES AN UNREASONABLE HARDSHIP

F. CLEAN-UP:

BRICK SUPPORTS TYP. NOTE: INLET PIPE LENGTH OF SENSOR -3/4" MINUS WASHED MUST BE MIN. 10 X PIPE DIA. STRAIGHT CLEAN RUN OF PIPE. NOT FITTINGS OR 3/4" MINUS -TURNS. OUTLET PIPE LENGTH OF WASHED GRAVEL SENSOR MUST BE MIN. 5X PIPE DIA. OF STRAIGHT CLEAN RUN OF PIPE, NO

-WASHED GRAVEL

JUMBO BOX

FEBCO 850 DOUBLE

CHECK ASSEMBLY

PRELIMINARY

ot for construction or permit purpose

Kimley **Horn

L.I. No. 0026724 Date 12/4/2023

SHEET NUMBER LI 2.02

Scale: N.T.S

BACKFLOW PREVENTER FINISHED GRADE NEW WATER METER

10" PLASTIC BOX

LOCKING GATE VALVE

STANDARD VALVE -

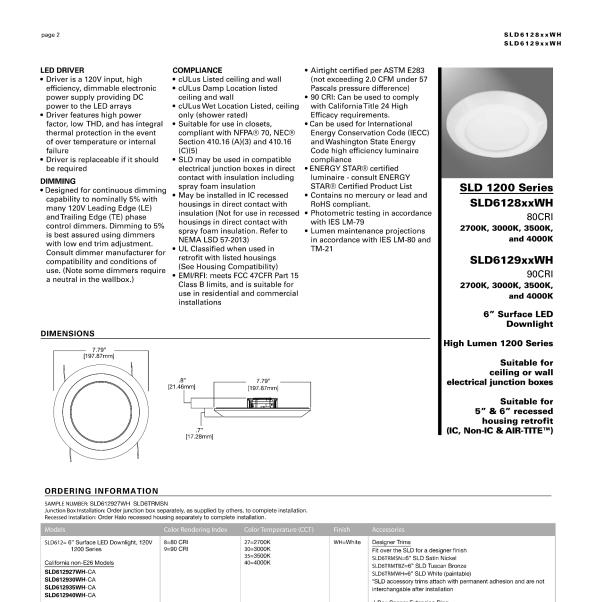
Double Check Assembly Backflow Preventer with Flow Sensor

FITTINGS OR TURNS.

VALVE BOX -

FLOW SENSOR -

FIXTURE "RH10"



FIXTURE "RH09"

COOPER Lighting Solutions

SLD6TRMWH=6" SLD White (paintable)
*SLD accessory trims attach with permanent adhesion and are not

J-Box Spacer Extension Ring Add 15/16" depth when SLD driver cannot fit into installed junction SLD6EXT=6" Surface LED J-Box Extender, 9.5" O.D.

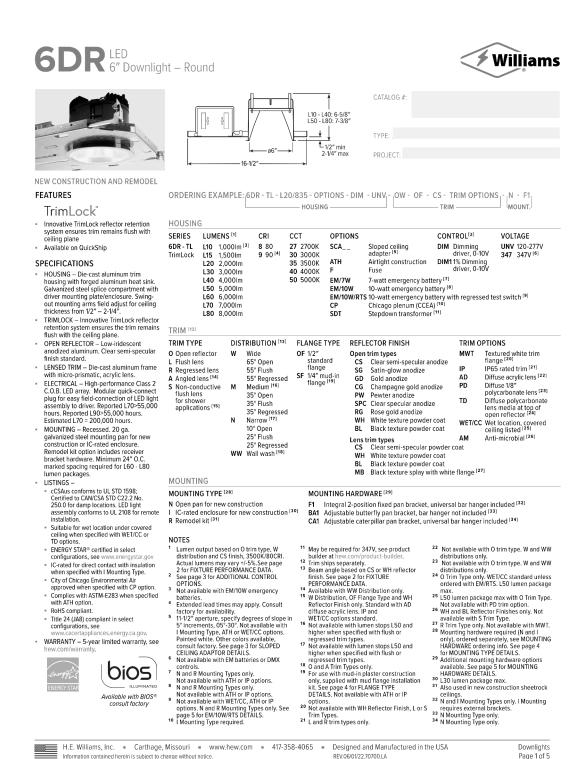
RAD Adapters
When junction box is mounted flat on a ceiling or beam surface
(not recessed in ceiling)
SLD6RAD=6" SLD Round Surface J-Box Adapter, 7.92" O.D.

Refer to SLD Accessories specification sheet for further information.

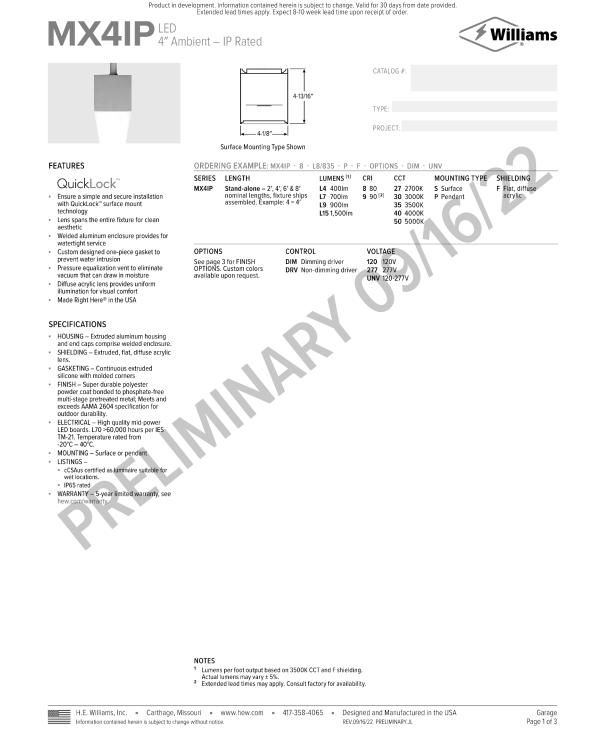
(for 4-inch round or octagon junction boxes.) SLD6SADPLT=6" SLD Square Surface J-Box Adapter Plate (For 4-inch square junction boxes, use with SLD6RAD.)

Spare Parts
SLD6ACCKIT=6" Accessory Parts Replacement Kit
(Screwbase adapter, torsion springs, friction blades)
SLD6BRKT=6" Junction Box Bracket & Screws

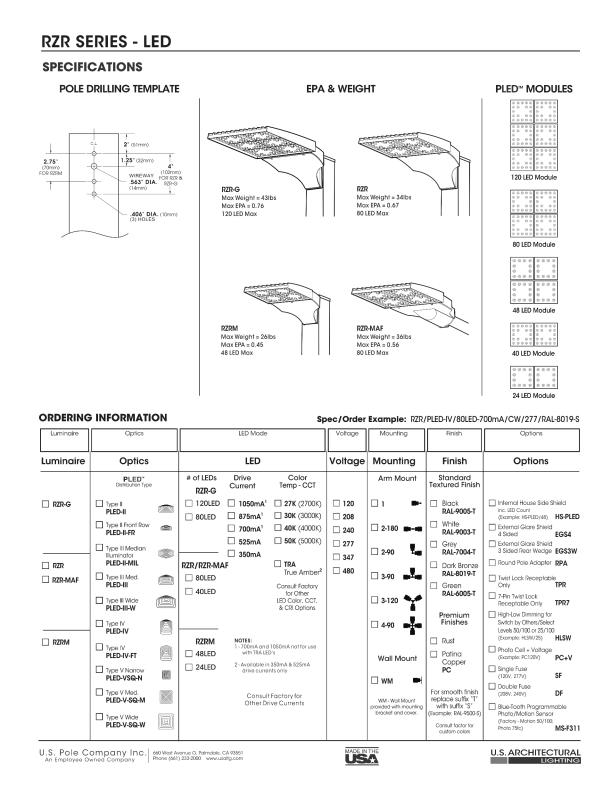
interchangable after installation

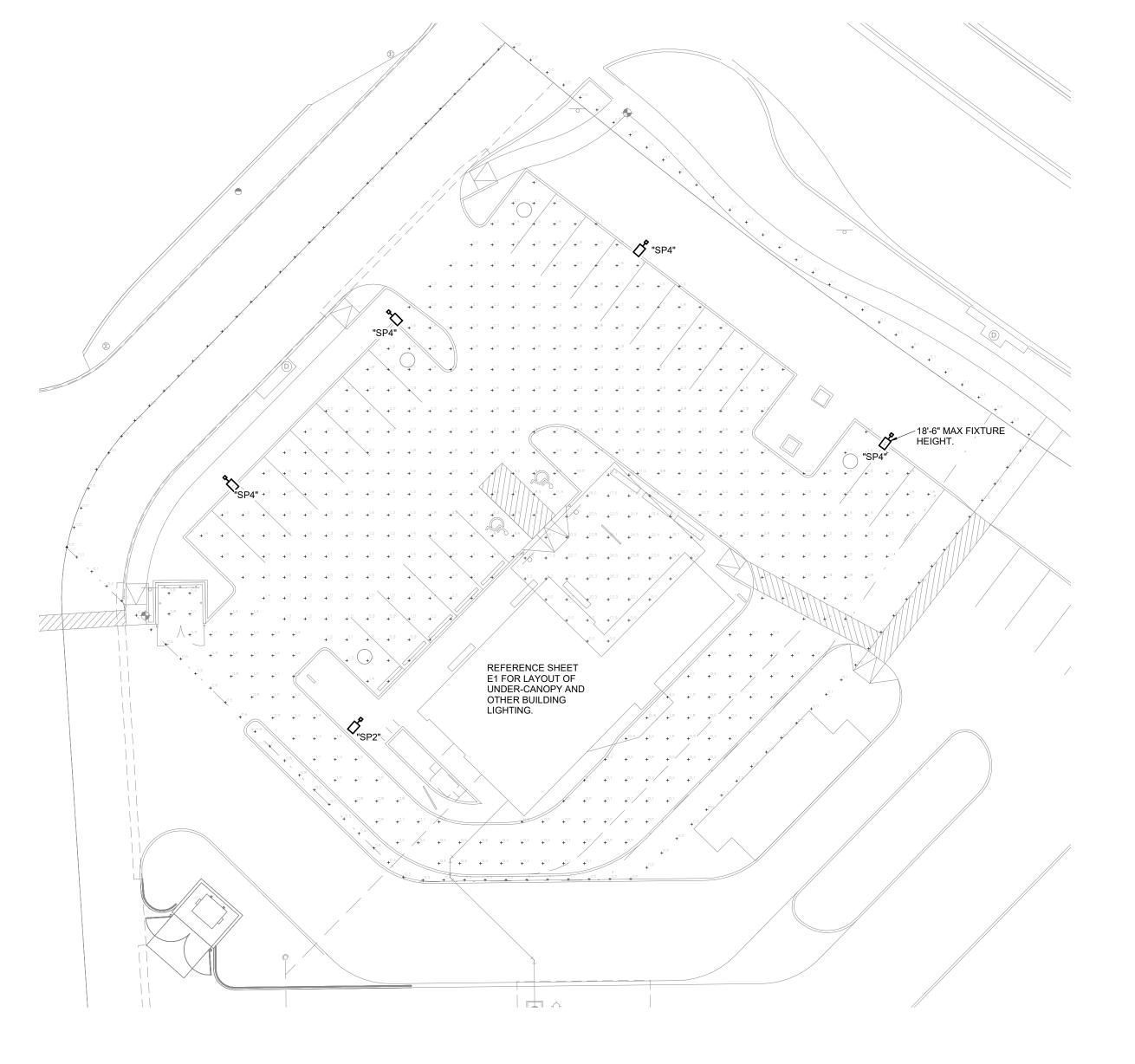


FIXTURE "L2"



FIXTURE "SP_"





SITE PHOTOMETRICS PLAN

NORTH

ME1 | SCALE: 1" = 20'-0"

Hufft

PROJECT INFORMATION: Andy's Frozen Custard -Lantana 3800 FM 407,

Bartonville, TX 76226 OWNER: ANDY'S FROZEN CUSTARD

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ISSUE:

11-17-2023

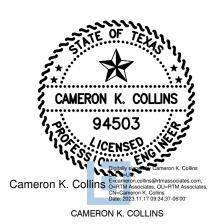
100% CDs

REVISION SCHEDULE: NO. DATE

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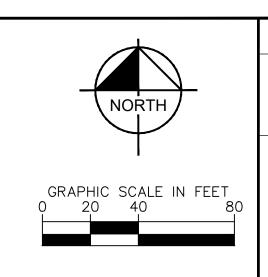


Engineer: Cameron K. Collins License Number: E-24493 Drawn By: Author Project Number: 697

unless noted otherwise.

SITE PHOTOMETRIC PLAN

ME₁



LEGEND

EXISTING CONTOUR ——— 527 ——— PROPOSED CONTOUR

PROPOSED ROOF CANOPY

WATER METER

— — — — — FULL DEPTH SAWCUT

---- BUILDING & PAVING SETBACK

PARKING STALL COUNT

Hor

FOR REVIEW ONLY
Not for construction or permit purposes.

Kimley» Horn

Engineer JENNIFER G. GANSERT, P.E.

P.E. No. 124908 Date 11/17/2023

SHEET NUMBER

BENCH MARK LIST

The bearing system for this survey is based on the Texas Coordinate System of 1983, North Central Zone 4202 with an applied combined scale factor of 1.00015063, based on observations made on September 21, 2023.

BM#150 - AN "+" CUT WITH BOX SET IN CONCRTE DRIVEWAY AT THE INTERSECTION OF JETER ROAD AN THE ENTRANCE TO COMMUNITY MED URGENT CARE, 102'± SOUTHEAST OF THE SOUTHEAST CORNER OF THE COMMUNITY MED URGENT CARE BUILDING, AND 32' SOUTHWEST OF A SANITARY SEWER MANHOLE.

ELEV: 667.69

BM#151 - AN "+" CUT WITH BOX SET IN CONCRETE SIDEWALK ON THE EAST SIDE OF THE ACCESS ROAD THROUGH COMMUNITY MED URGENT CARE, 71'± EAST OF THE NORTHEAST CORNER OF THE COMMUNITY MED URGENT CARE BUILDING, AND 175'± SOUTHWEST OF THE INTERSECTION OF FM 407 AND THE NORTHEAST ENTRANCE TO COMMUNITY MED URGENT CARE. ELEV: 665.66

BM#152 - AN "+" CUT WITH BOX SET IN CONCRETE AT THE CORNER OF INTERSECTING SIDEWALKS, 20'± SOUTHEAST OF THE INTERSECTION OF FM 407 AND THE NORTHEAST ENTRANCE TO COMMUNITY MED URGENT CARE, AND 83'± NORTHWEST OF A BRICK URGENT CARE SIGN.

ELEV: 664.69







PROJECT INFORMATION: Andy's Frozen Custard Lantana

3800 FM 407, Bartonville, TX 76226

ANDY'S FROZEN CUSTARD

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CONSTRUCTION DOCUMENTS

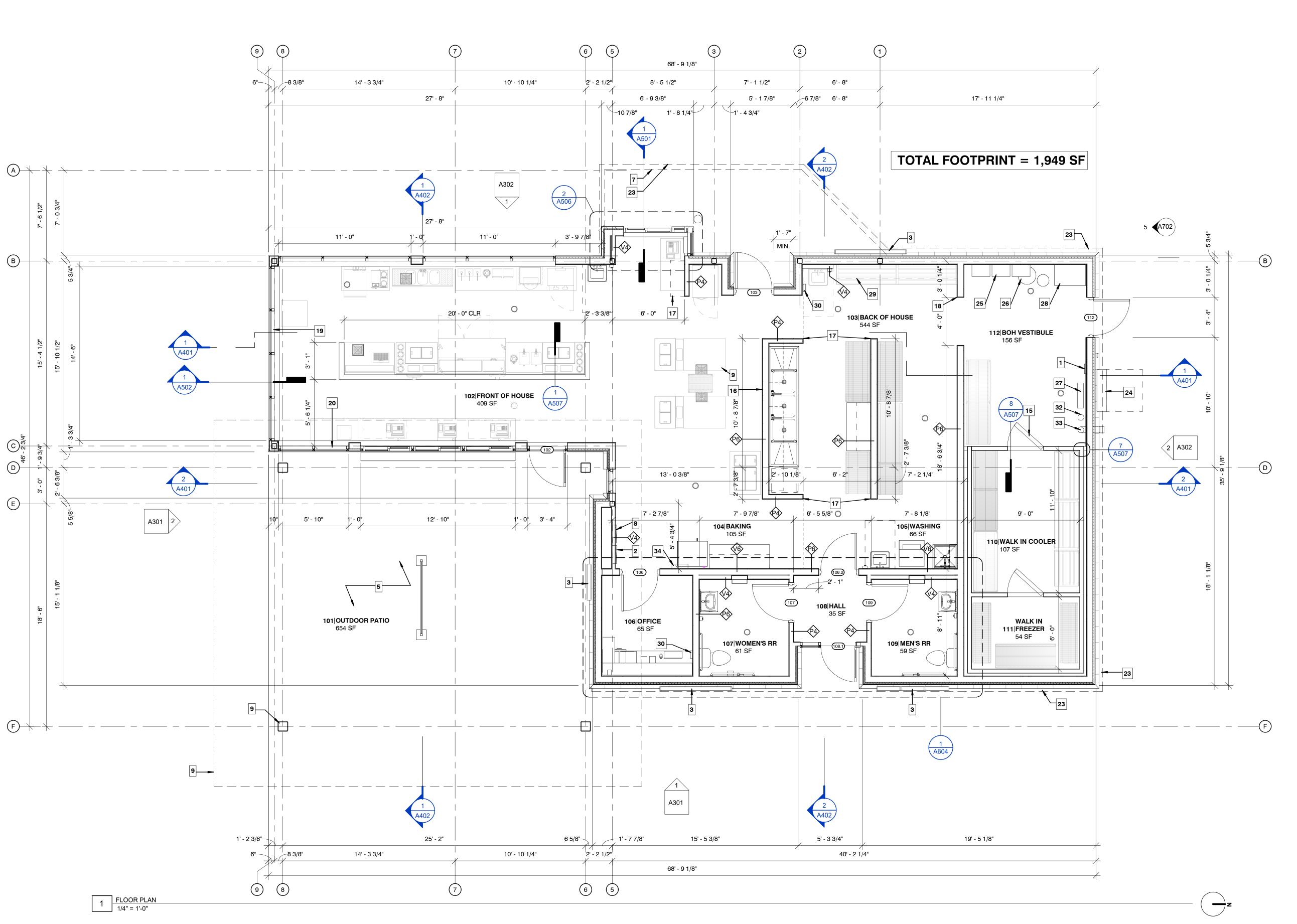
REVISION SCHEDULE: NO. DATE ISSUE

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Architect: ??? License Number: xxx Drawn By: MS Project Number: 717 RENDERINGS



Hufft

1 FIRE EXTINGUISHER CABINET, RE: A507

PLAN KEYNOTES

- PANELBOARD(S), RE: ELECT DWGS
- BUILDING SIGNAGE, RE: ELECT DWGS OUTDOOR PATIO, CONCRETE SLAB W/ SEALER
- PATIO CANOPY AND STRUCTURE. RE: STRUCT DWGS. STEEL COLUMNS, PTD
- 7 DRIVE-THRU CANOPY, RE: STRUCT DWGS
- 8 CUSTARD MACHINE SHUT-OFF SWITCH, RE: MEP
- 9 CUSTARD MACHINE TO STRADDLE FLOOR SINKS
- 15 WALK-IN COOLER/FREEZER, COORDINATE WITH
- 16 PROVIDE HOT AND COLD WATER HOSE BIB ON WALL BEHIND AND ADJACENT TO CUSTARD MACHINES, RE:
- 17 INSTALL STAINLESS STEEL CORNER GUARDS THROUGHOUT, TYP. ALL EXPOSED CORNERS RE:
- 18 CASED OPENING FOR BOH ACCES
- 19 ANDYS FROZEN CUSTARD NEON CONE SIGN -LOCATED INSIDE STORE IN FRONT OF STOREFRONT GLAZING, SUSPENDED. CONSEAL POWER SUPPLY ALONG INSIDE FACE OF MULLION.
- 20 ANDYS FROZEN CUSTARD "SPRECHER ROOT BEER" NEON SIGN - LOCATED INSIDE STORE IN FRONT OF STOREFRONT GLAZING, SUSPENDED. CONSEAL POWER SUPPLY ALONG INSIDE FACE OF MULLION.
- 23 SIGNAGE LIGHTING BAND, BY PINNACLE SIGN GROUP. RE: ELEC DWGS & SIGNAGE DWGS
- 24 MPD, RE: ELECT DWGS
- 25 TANKLESS WATER HEATERS, RE: MEP DWGS WATER SOFTENER, RE: MEP DWGS, KEEP CLOSE TO
- 27 BACK FLOW PREVENTOR, RE: MEP DWGS
- 28 PRESSURE WASHER, RE: MEP DWGS
- 29 WALL SHELVES ABOVE DUNNAGE RACKS
- 30 IPAD HOLDER
- ROOF DRAIN DOWN TO BELOW GRADE, RE: PLUMB DWGS, KEEP PIPE CLOSE TO WALL
- 33 OVERFLOW ROOF DRAIN, STUBOUT AT 12" AFF W/ DRAIN NOZZLE , RE: PLUMB DWGS, KEEP PIPE CLOSE
- 34 SECURITY PANEL, RE: ELECT

1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING STRUCTURE, MECHANICAL, ELECTRICAL, PLUMBING, ETC. AND NOTIFY ARCHITECT OF ANY DISCREPENCIES.

2. DIMENSIONS ARE FROM GRIDLINES TO FINISH FACE OF NEW PARTITIONS, U.O.N.

3. REFER TO A701 FOR ADDITIONAL NOTES PERTAINING TO 11/6/2023 WALL TYPE CONSTRUCTION AND DETAILING.

4. REFER TO EQUIPMENT PLAN FOR ALL EQUIPMENT.

5. REFER TO WALL SECTIONS FOR EXTERIOR WALL CONSTRUCTION.

6. REFERENCE CIVIL SITE PLAN FOR BUILDING LOCATION AND ORIENTATION ON SITE.

PROJECT INFORMATION: Andy's Frozen Custard Lantana

3800 FM 407, Bartonville, TX 76226

OWNER: ANDY'S FROZEN CUSTARD

211 E. Water Street Springfield, MO 65806 www.eatandys.com

ARCHITECT: HUFFT

> 3612 Karnes Boulevard Kansas City, MO 64111

P: 816-531-0200

www.hufft.com

STRUCTURAL:

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KIMLEY-HORN 13455 Noel Road - Suite 700 TX, Dallas 75240 P: 972.770.1300

RTM ENGINEERING CONSULTANTS 3333 E. Battelfield Road, Suite 1000 Springfield, MO 65804 P: 417-881-0020

LANDSCAPE ARCHITECT: KIMLEY-HORN 13455 Noel Road - Suite 700 TX, Dallas 75240

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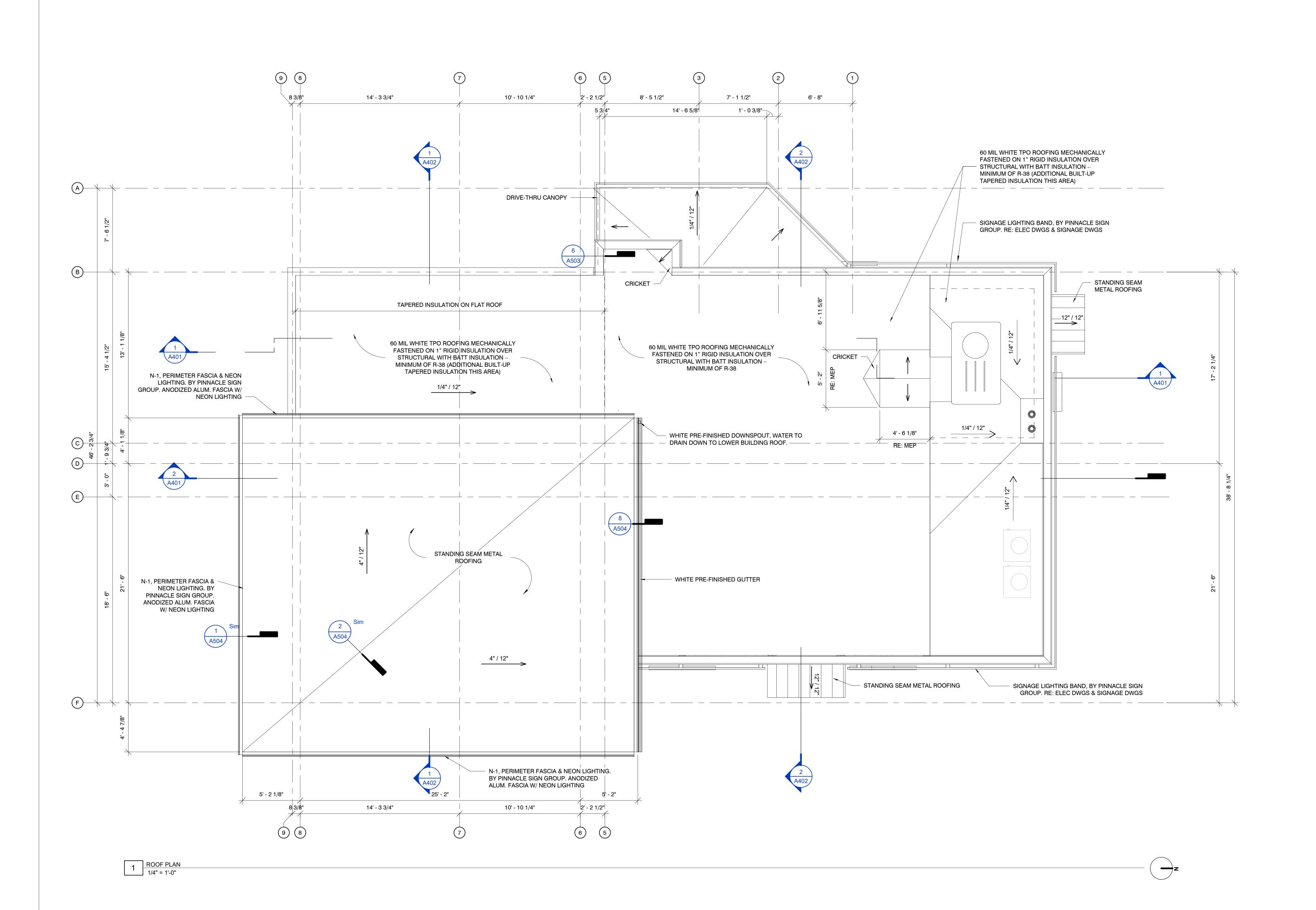
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License Number: xxx Drawn By: MS Project Number: 717 **FLOOR PLAN**



Hufft

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Andy's Frozen Custard

Lantana

3800 FM 407,

Bartonville, TX 76226

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211 E. Water Street

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CONSTRIBUTE
DO NOTRIBUTE

Architect: ???
License Number: xxx
Drawn By: MS
Project Number: 717

ROOF PLAN

A104



2 NORTHEAST ELEVATION
1/4" = 1'-0"



1 NORTHWEST ELEVATION 1/4" = 1'-0"

EVTEDIOD EINIGH COHEDIII E

EXTERIOR FINISH SCHEDULE		
<u>#</u>	DESCRIPTION	
AS-1	PATIO & DRIVE-THRU CANOPY MATERIAL: 6" V-GROOVE EXTRUDED ALUM SOFFIT PANELS COLOR: BONE WHITE	
C-1	COPING/ROOF EDGE TYPE 1: PRE-FINISHED ALUMINUM CAP AND SILL FLASHING AT MASONRY VENEER AND, TYP. COLOR: MATCH MASONRY COLOR	
C-2	COPING/ROOF EDGE TYPE 2: ANNODIZED ALUMINUM CAP AND SILL FLASHING AT STOREFRONT, TYP. COLOR: MATCH STOREFRONT FRAMING	
CS-1	CAST STONE TRIM: CONTINENTAL CAST STONE COLOR: #4025	
GL-1	GLAZING TYPE 1: STOREFRONT MNFR: KAWNEER 451T COLOR: DARK BRONZE	
M-1	MASONRY TYPE 1: CULTURED STONE COBBLEFIELD COLOR: TEXAS CREAM GROUT: TO MATCH STONE	
N-1	PERIMETER FASCIA & SHIELDED LED LIGHTING: BY PINNACLE SIGN GROUP ANODIZED ALUM. FASCIA W/ LED LIGHTING	
R-1	STANDING SEAM ROOFING: METAL SALES, MINI BATTEN 1" PANEL SIZE: 12" 24 GAUGE	
S-1	STUCCO: STO ELASTOMERIC FINISH, TEXTURE: MEDIUM COLOR: MORTAR #31435	

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PROJECT INFORMATION: Andy's Frozen Custard Lantana 3800 FM 407, Bartonville, TX 76226 OWNER: ANDY'S FROZEN CUSTARD 211 E. Water Street Springfield, MO 65806 www.eatandys.com ARCHITECT: HUFFT 3612 Karnes Boulevard Kansas City, MO 64111 P: 816-531-0200 www.hufft.com STRUCTURAL: METTEMEYER ENGINEERING, LLC 2225 W. Chesterfield Blvd., Suite 300 Springfield, MO 65807 P: 417-890-8002 CIVIL: KIMLEY-HORN 13455 Noel Road - Suite 700 TX, Dallas 75240 P: 972.770.1300 RTM ENGINEERING CONSULTANTS 3333 E. Battelfield Road, Suite 1000 Springfield, MO 65804 P: 417-881-0020 LANDSCAPE ARCHITECT: KIMLEY-HORN 13455 Noel Road - Suite 700 TX, Dallas 75240 P: 972.770.1300

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Architect: ??? License Number: xxx Drawn By: MS Project Number: 717

ELEVATIONS

A301



2 SOUTHWEST ELEVATION 1/4" = 1'-0"



1 SOUTHEAST ELEVATION 1/4" = 1'-0"

TEXTURE: MEDIUM

COLOR: MORTAR #31435

<u>#</u>	DESCRIPTION
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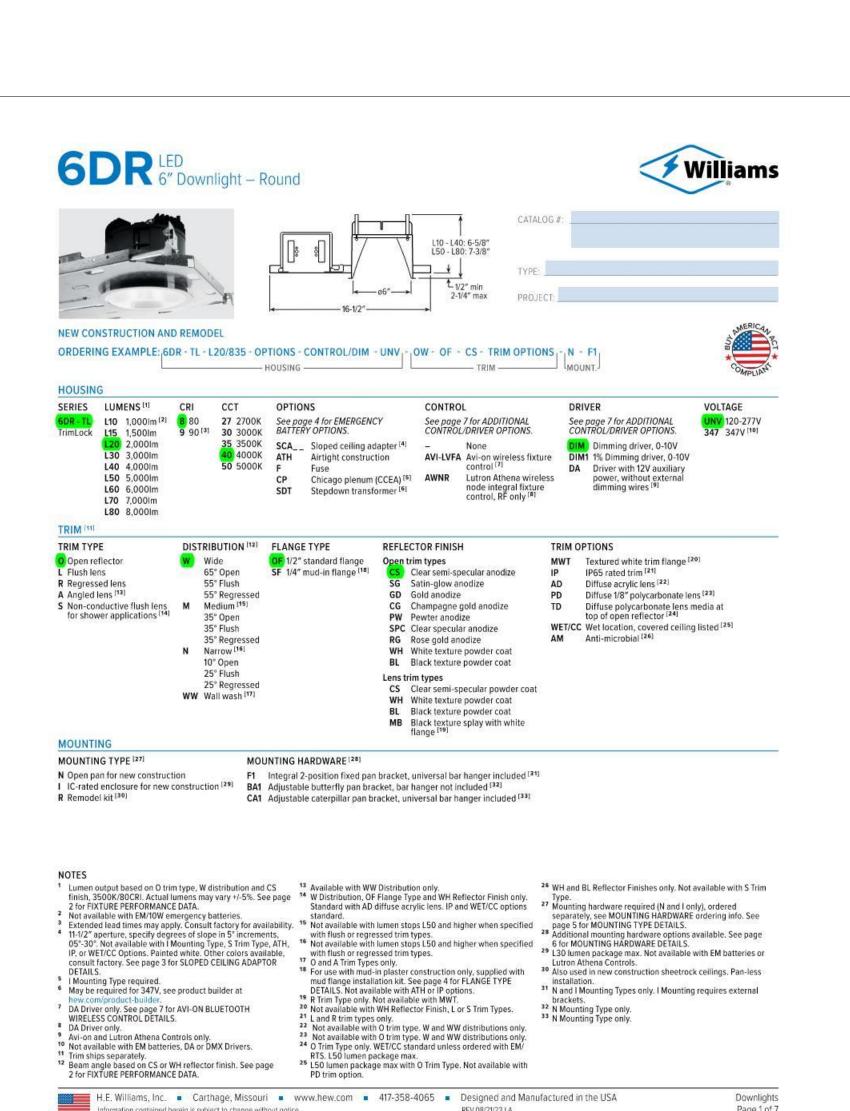
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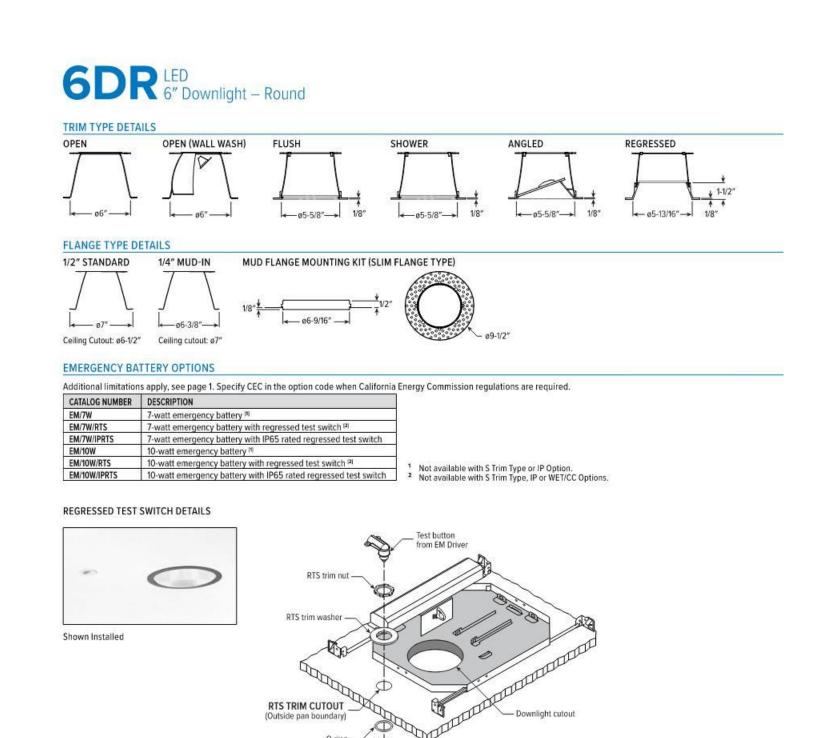
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Architect: ??? License Number: xxx Drawn By: MS Project Number: 717

ELEVATIONS





(IPRTS option only)

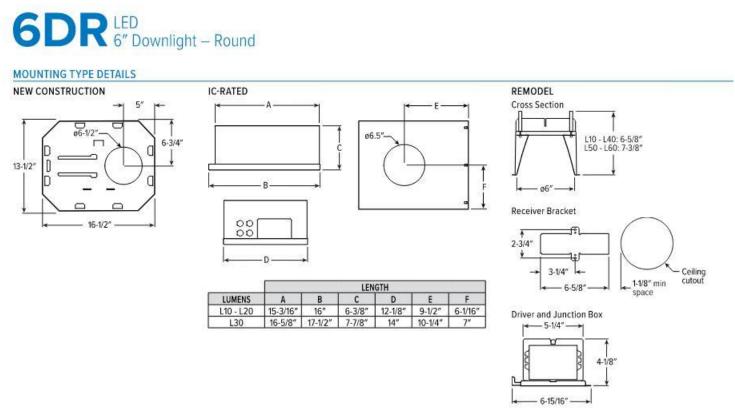
SPC SG Clear specular Satin glow

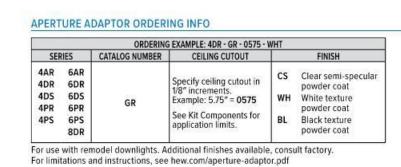
IP Rated cap -(IPRTS option only)

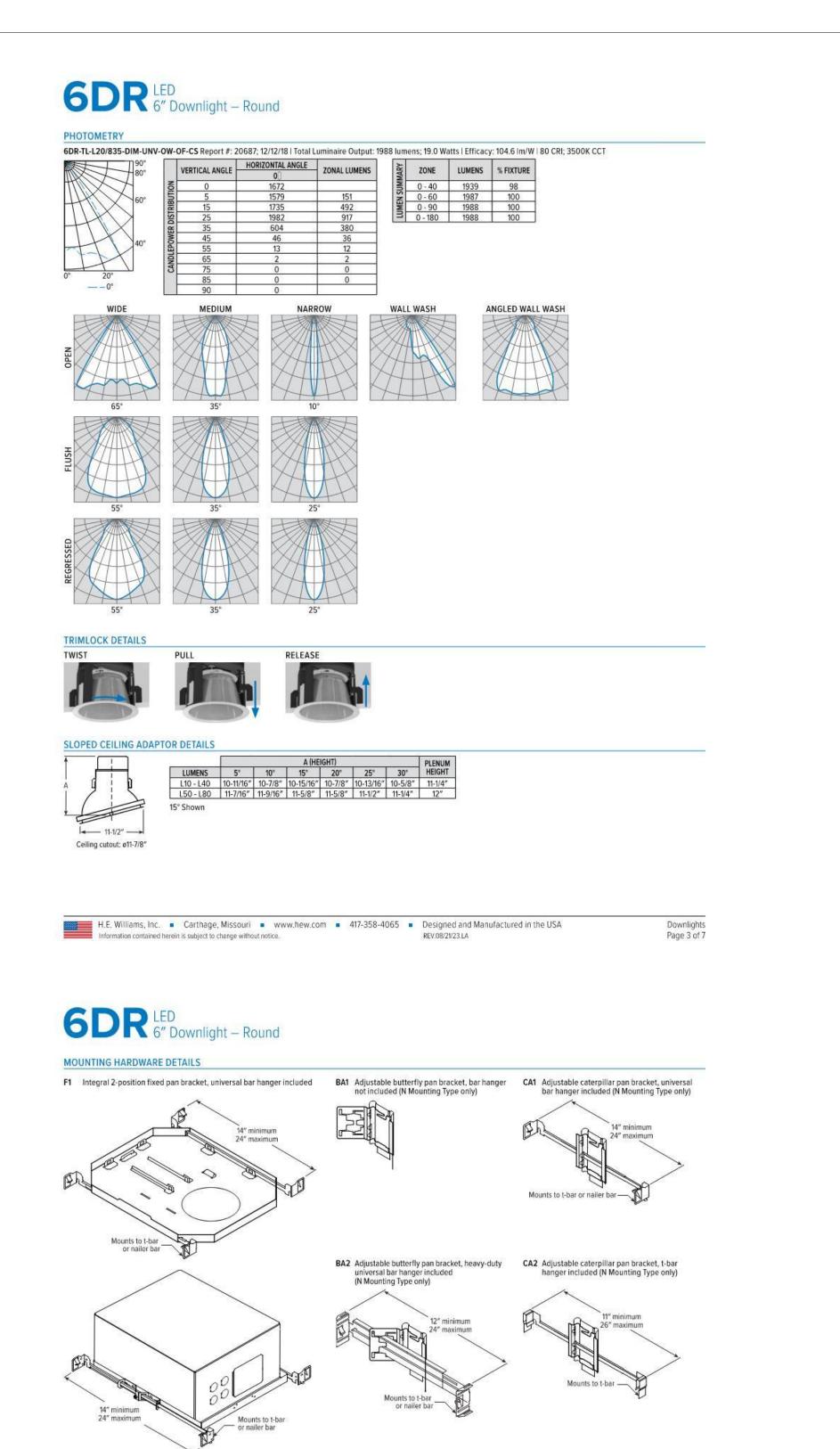
REV.08/21/23.LA

Information contained herein is subject to change without notice.









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Bartonville, TX 76226

ANDY'S FROZEN CUSTARD

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RTM ENGINEERING CONSULTANTS

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Lantana

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STRUCTURAL:

CIVIL:

Andy's Frozen Custard

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CONSTRUCTORY CONSTRUCTORY DO NOT RIBLY

License Number: xxx Drawn By: MS Project Number: 717

LIGHTING CUT SHEETS

Champagne gold Rose gold

Downlights Page 5 of 7

F1 with I Mounting Type

SEE NEXT PAGE FOR CONTROL DETAILS.

California Title 24 compliance/ certified to Title 20 Note: Driver consumes 3 cubic 80 CRI can be used to comply inches of junction box with California Title 24 Non- Installer must ensure Residential Lighting Controls compatibility of fit, wiring and as a LED luminaire. proper mounting in the

WARRANTY Cooper Lighting Solutions provides national and local electrical and a five year limited warranty on the





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electrical junction box.

building codes.

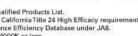
This includes all applicable

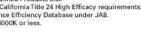














612 = 6" SLD 1200 Series 8 = >80 CRI 30 = 3000KWH = Matte White

NOMENCLATURE

SLD<u>612830WH</u>

ENERGY DATA

Lumens (4000K models)

Efficiency (4000K models)

Power Factor ≥ 0.90 T Ambient -30 - +40°C

Sound Rating Class A

SLD6128xxWH

TD518010EN

HALO

Type

Date

and 4000K

and 4000K

Suitable for

Suitable for

80 CRI 90 CRI

1215 1000

82 lm/W 68 lm/W

nput Voltage 120V 120V

requency 50/60 Hz 50/60 Hz

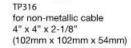
Input Current 0.12 A 0.12 A

Input Power 14.8 W 14.8 W

≤ 20%

COMPATIBLE WITH COOPER LIGHTING SOLUTIONS' CROUSE-HINDS JUNCTION BOXES







4" x 4" x 2-1/8" (102mm x 102mm x 54mm)

• TP317 - for metal clad cable UL Listed · Refer to www.crouse-hinds.com

TP316 - for non-metallic cable

standard as a non-screw base

screw-base adapter provides

screwbase luminaire disconnec

The included E26 Edison

capability for retrofit*

LED connector is a non-

for tool-less installation

COMPATIBLE WITH MANY OTHER JUNCTION BOXES*





non-metallic light fixture/

4" diameter x 2-3/16"

O COOPER





3-1/2" diameter x 2-3/4"

(89mm x 70mm)











4" square deep steel box

(102mm x 102mm x 54mm)

4" x 4" x 2-1/8"

3-1/2" round old work 4" round surface mount box 4" diameter x 1-1/2" non-metallic box 4-1/4" O.D. flange, 3-1/2" I.D. x 2-5/8" (102mm x 38mm) (108mm O.D., 89mm I.D. x 67mm) Requires SLD6RAD adapter

4" square standard

(102mm x 102mm x 38mm)

4" x 4" x 1-1/2"



*This is a representative list of compatible junction boxes only. Information contained in this literature about other manufacturers' products is from published information made available by the manufacturer and is deemed to be reliable, but has not been verified. Cooper Lighting Solutions makes no specific recommendation on product selection and there are no warranties of performance or compatibility implied. Installer must determine that site conditions are suitable to allow proper installation of the SLD mounting bracket in the box.

COMPLIANCE

ceiling and wall

installations

only (shower rated)

 Driver is a 120V input, high efficiency, dimmable electronic

LED DRIVER

power supply providing DC power to the LED arrays Driver features high power factor, low THD, and has integral . Suitable for use in closets, thermal protection in the event of over temperature or internal Driver is replaceable if it should
 SLD may be used in compatible be required

DIMMING many 120V Leading Edge (LE) and Trailing Edge (TE) phase control dimmers. Dimming to 5% is best assured using dimmers with low end trim adjustment. Consult dimmer manufacturer for compatibility and conditions of use. (Note some dimmers require

• EMI/RFI: meets FCC 47CFR Part 15 a neutral in the wallbox.)

DIMENSIONS

 Airtight certified per ASTM E283 cULus Listed ceiling and wall (not exceeding 2.0 CFM under 57 Pascals pressure difference) cULus Damp Location listed • 90 CRI: Can be used to comply cULus Wet Location Listed, ceiling with California Title 24 High Efficacy requirements. Can be used for International compliant with NFPA® 70, NEC® Energy Conservation Code (IECC) Section 410.16 (A)(3) and 410.16 and Washington State Energy Code high efficiency luminaire

electrical junction boxes in direct • ENERGY STAR® certified contact with insulation including | luminaire - consult ENERGY Designed for continuous dimming
 May be installed in IC recessed
 May be installed in IC recessed housings in direct contact with RoHS compliant. insulation (Not for use in recessed . Photometric testing in accordance housings in direct contact with with IES LM-79 spray foam insulation. Refer to • Lumen maintenance projections NEMA LSD 57-2013) in accordance with IES LM-80 and UL Classified when used in retrofit with listed housings Class B limits, and is suitable for use in residential and commercial



SLD 1200 Series SLD6128xxWH 80CRI 2700K, 3000K, 3500K, and 4000K SLD6129xxWH

SLD6128xxWH

SLD6129xxWH

6" Surface LED Downlight High Lumen 1200 Series

2700K, 3000K, 3500K,

and 4000K

Suitable for

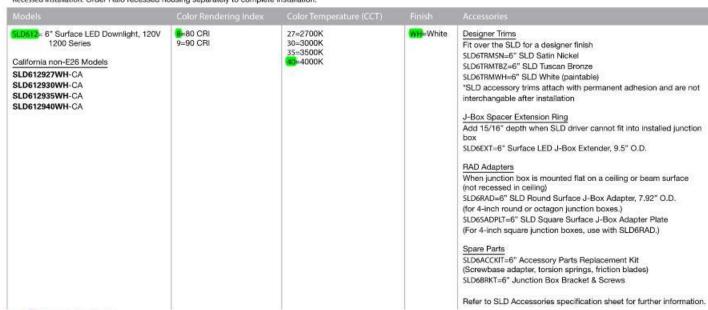
SLD6128xxWH

ceiling or wall lectrical junction boxes Suitable for 5" & 6" recessed housing retrofit (IC, Non-IC & AIR-TITE™)

ORDERING INFORMATION

SAMPLE NUMBER: SLD612927WH SLD6TRMSN Junction Box Installation: Order junction box separately, as supplied by others, to complete installation.

Recessed Installation: Order Halo recessed housing separately to complete installation.



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page 5

PRODUCT DATA

Cat No.	CRI	CCT	Lumens	Power (W)	LPW
SLD612827WH	80	2700	1100	14.8	74
SLD612830WH	80	3000	1150	14.8	78
SLD612835WH	80	3500	1200	14.8	81
SLD612840WH	80	4000	1215	14.8	82
SLD612927WH	92	2700	880	14.8	59
SLD612930WH	92	3000	925	14.8	63
SLD612935WH	92	3500	965	14.8	65
SLD612940WH	92	4000	1000	14.8	68

Performance values are presented as typical for the model(s) indicated. Field results may vary.

LIGHTING FACTS®



ighting facts

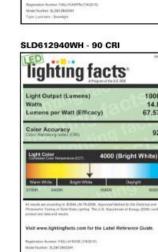


SLD612930WH - 90 CRI

ighting facts







SLD612840WH - 80 CRI

ighting facts

ns per Watt (Efficacy)

page 3

Compatible Halo LED Housings with LED luminaire connector (high-efficacy compliant)

HOUSING COMPATIBILITY

The SLD6 is UL Listed in Halo and All-Pro recessed housings, and is UL Classified for use with any 5 or 6 inch diameter recessed housing constructed of steel or aluminum with an internal volume that exceeds 107.9 in addition to those noted below. Note: Some other's housings require installation with included friction clips.

SLD6128xxWH

SLD6129xxWH

HALO	Recessed Can Size	Catalog Number
LED	5"	H550ICAT, H550RICAT, E550ICAT, E550RICAT
LLD	6"	H750ICAT, H750RICAT, H750T, H750RINTD010, H750TCP, H2750ICAT, H2750RICAT, E750ICAT, E750RICAT
Halo LED Retro	fit Enclosures	
HALO	6"	ML7BXRFK, ML7E26RFK
		■ 250 Phop = 2018 • 4000 € 2016
Compatible Hal	o Incandescent E26	Screwbase Housings
11410	5"	H5ICAT, H5RICAT, H5ICATNB, H5T, H5RT, H25ICAT, H25ICATNB, E5TAT, E5RTAT, H5TNB, E5TATNB, E5ICAT, E5RICAT, E5ICAT
HALO	6"	H7ICAT, H7RICAT, H7ICT, H7RICT, H7ICATNB, H7ICTNB, H7T, H7RT, H7TNB, H7TCP, H7UICT, H7UICAT, H27ICAT, H27RICAT, H

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CIVIL:

Andy's Frozen Custard

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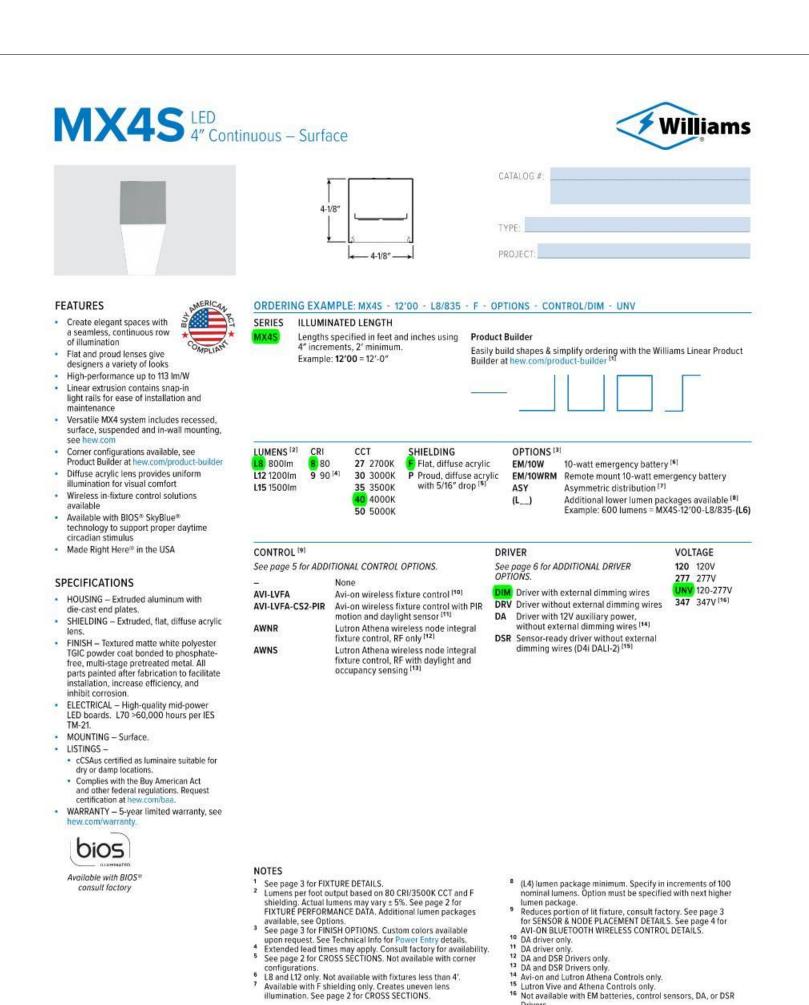
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LIGHTING CUT SHEETS

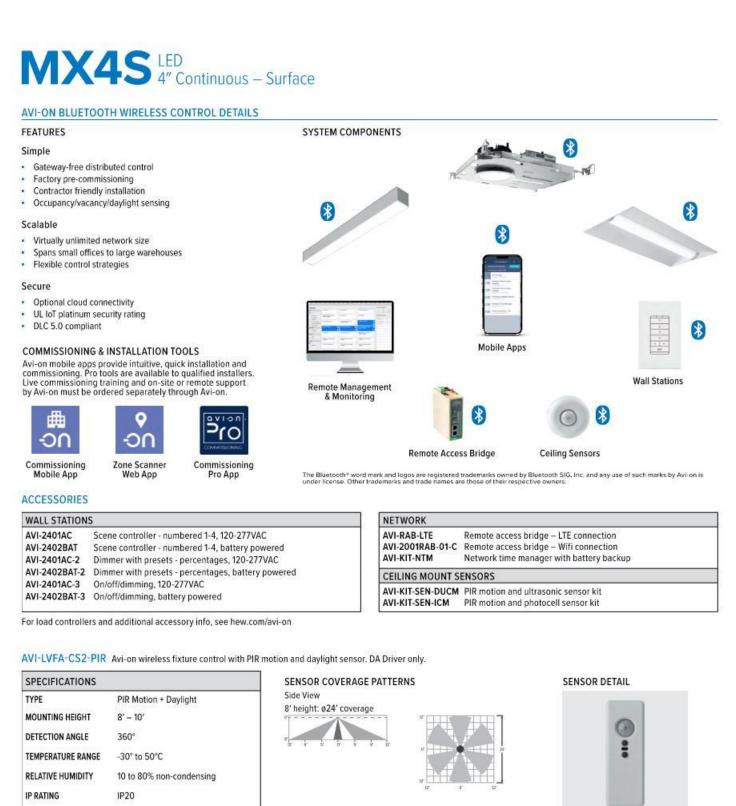


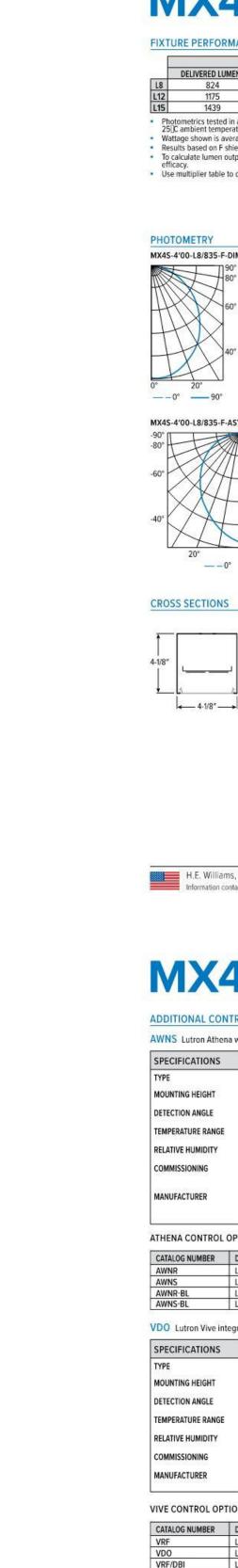


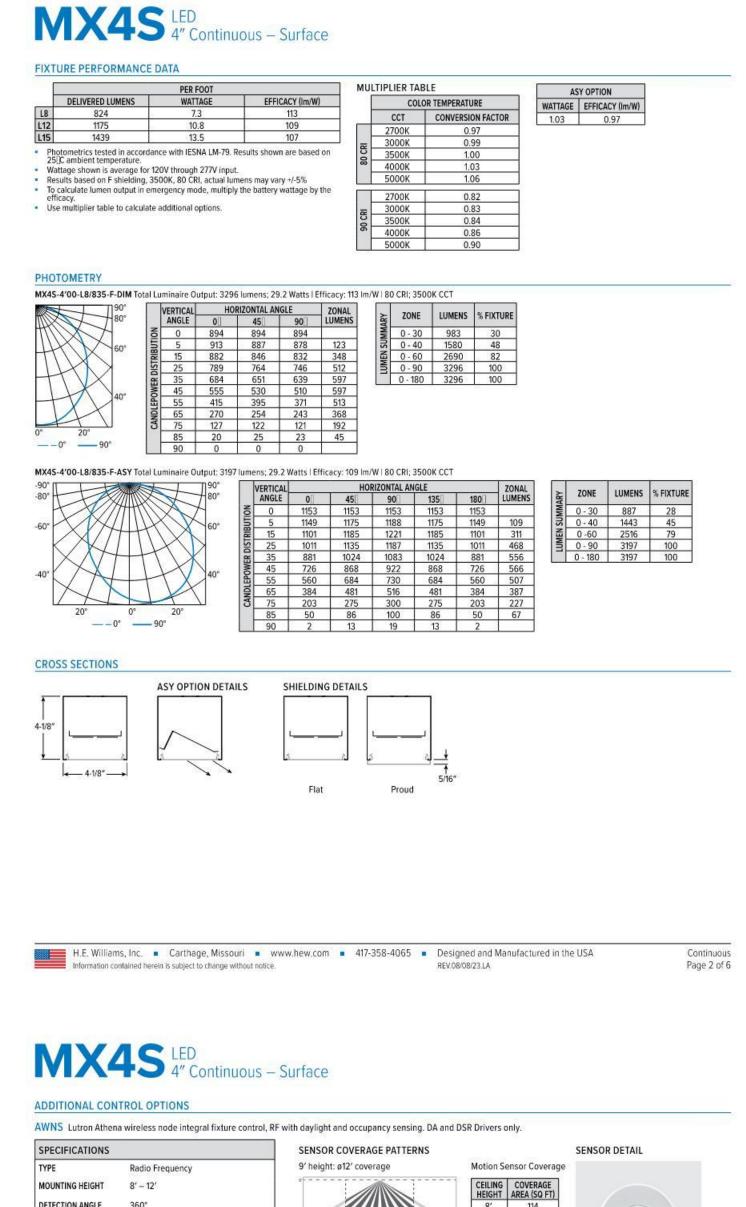


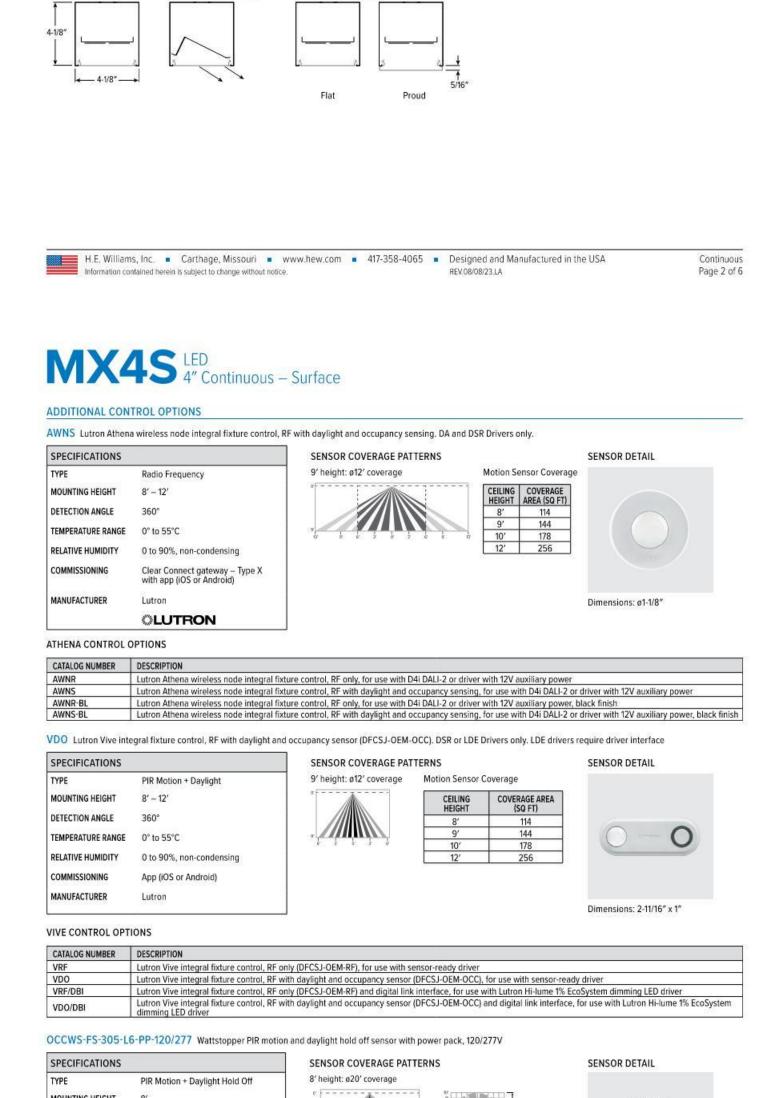


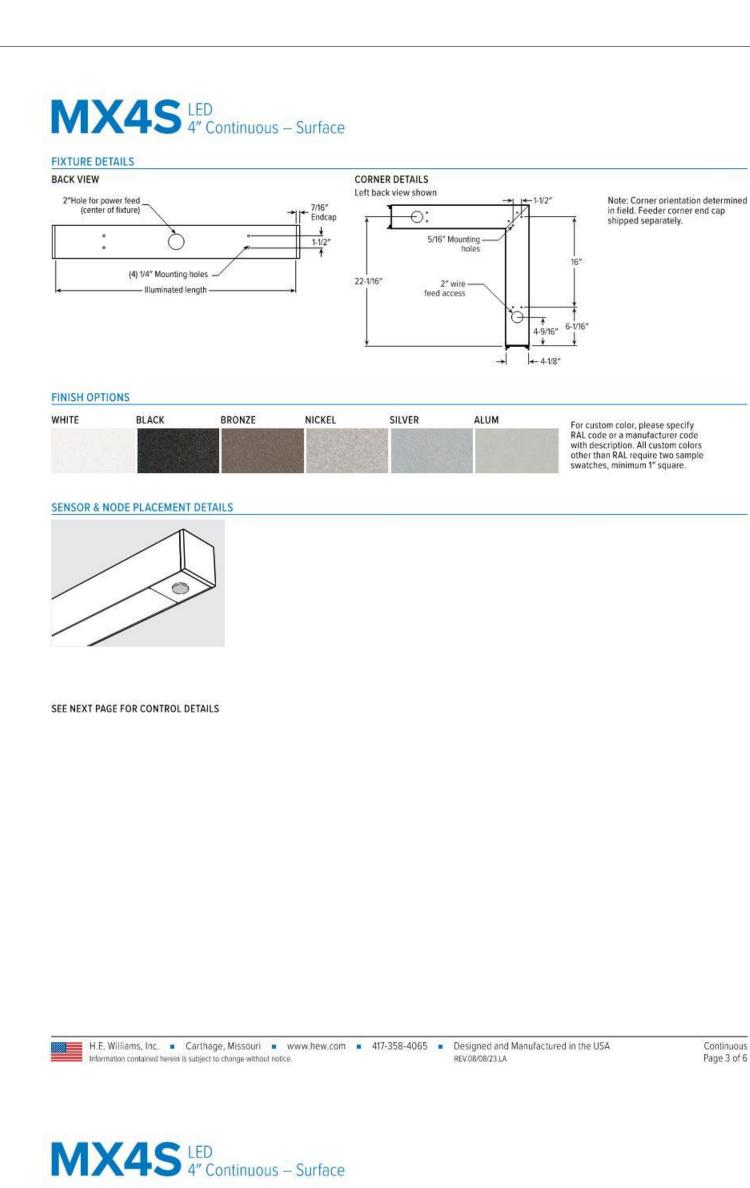












OCCWS-LMFS-601-PP-120/277 Wattstopper PIR motion and daylight sensor with power pack, 120/277V

PIR Motion + Daylight

Up to 300 sq/ft coverage

Note: Lumen restrictions apply, consult product builder at hew.com/product-builder.

Driver with 12V auxiliary power

40% step-dimming driver

50% step-dimming driver

DALI dimming driver

Sensor-ready driver (D4i DALI-2)

Driver prewired for non-dimming applications

Lutron Hi-lume 1% EcoSystem dimming LED driver

Dimming driver prewired for 0-10V low voltage applications

1% dimming driver prewired for 0-10V low voltage applications

Line voltage dimming driver (TRIAC compatible, 120V only)

Line voltage dimming driver (TRIAC and ELV compatible, 120V only)

8' - 12'

RELATIVE HUMIDITY 0 to 90%, non-condensing

COMMISSIONING App (iOS or Android)

SENSOR COVERAGE PATTERNS

8' height: ø20' coverage

SPECIFICATIONS

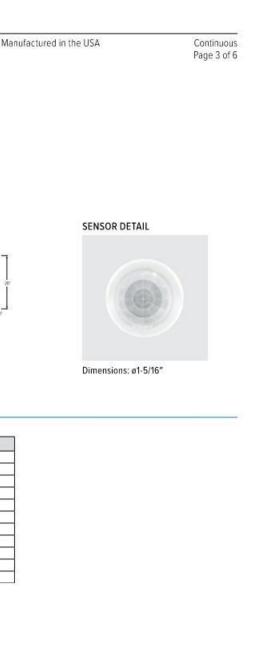
MOUNTING HEIGHT

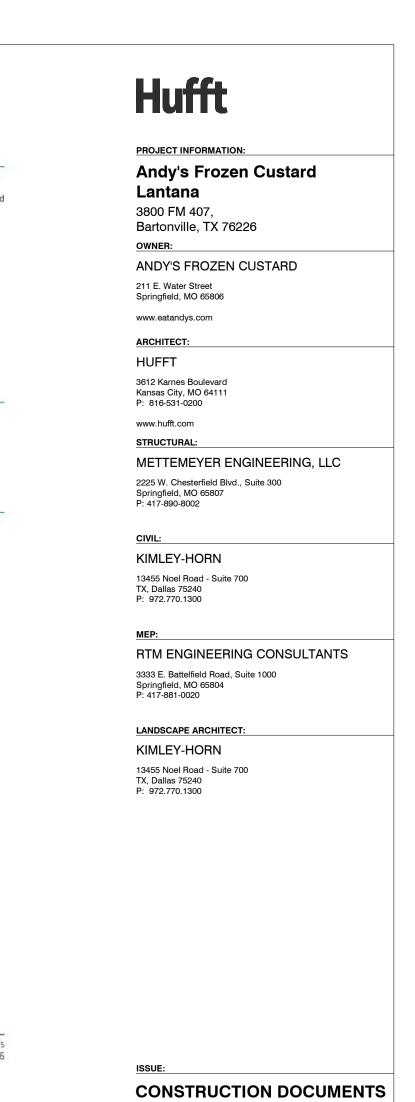
DETECTION ANGLE 360°

TEMPERATURE RANGE 0° to 50°C

ADDITIONAL DRIVER OPTIONS

CATALOG NUMBER DESCRIPTION







		
HEVISIO	ON SCHEDULE:	
NO.	DATE	ISSUE

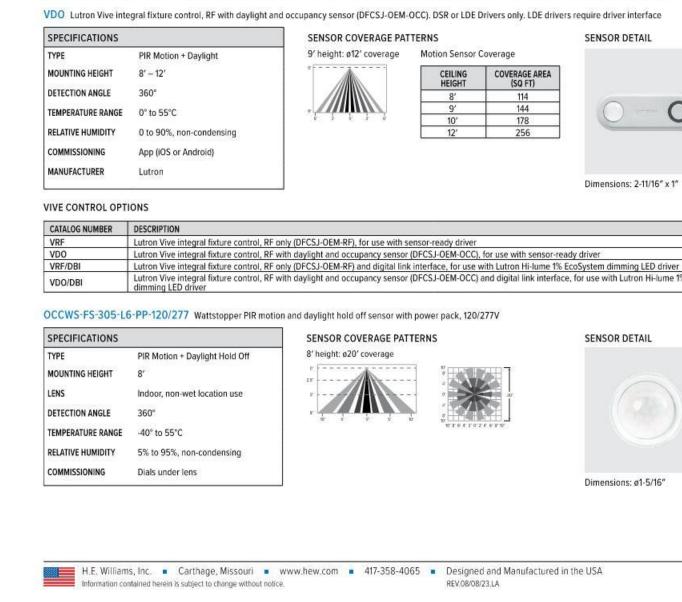
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LIGHTING CUT SHEETS



Page 5 of 6

MANUFACTURER

Avi-On

NC-IVD

Dimensions: 13/16" x 2-1/4"

AREA & ROADWAY LIGHTING

RAZAR SERIES - LED LOW PROFILE AREA LUMINAIRE

Optical Housing

compartment cover.

Heavy cast, Iow copper aluminum assembly (A356 alloy, <.2% copper) minimum wall thickness .188". LED Module mounting area is machined to within a 0.002" surface flatness variance for maximum surface contact and thermal conductivity from the LED modules to the radiating fins. Passive radiating fins above the LED Optics provide superior thermal management and long LED life. The optical and electrical compartments are integrated with the support arm to create one assembly. Cast and hinged driver compartment cover allows access to the drivers and wiring.

Electrical Housing w/ Integrated Arm Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling ribs surrounding the electrical compartment and a flat surface on the top of the arm to accommodate a photocell receptacle. Solid barrier wall separates optical and electrical compartments. The optical compartment and electrical compartment with the integrated support arm combine to create one assembly. Minimum wall thickness is .188". Cast and hinged driver assembly cover is integrated with wiring

Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor, LED optics completely seal each individual emitter to meet an IP66 rating. In asymmetric distributions, a micro-reflector inside the refractor re-directs the house side emitter output towards the street side and functions as a house side shielding element. Refractors are injection molded H12 acrylic. Each LED refractor is sealed to the PCB over an emitter and all refractors are retained by an aluminum frame. Any one Panel, or group of Panels in a luminaire, have the same optical pattern. LED refractors produce standard site/area distributions. Panels are field

replaceable and field rotatable in 90° increments. LED Driver(s) Constant current electronic with a power factor of >.90 and a minimum operating temperature of -40°F/-40°C. Driver(s) is/are UL and cUL recognized and mounted directly against the Electrical Housing to facilitate thermal transfer, held down by universal clamps to facilitate easy removal. In-line terminal blocks facilitate wiring between the driver and optical arrays. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V,

50,60Hz. (0 - 10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaire supplied with 20KV surge protector for field accessible installation.)

High output LED's are utilized with drive currents ranging from 350mA to 1050mA. 70CRI Minimum. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

TRA (True Amber) LED's utilize material that emits light in the amber spectral bandwidth only without the use of phosphors.

Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step media blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability.

Mast Arm Fitter/Electrical Housing Replaces standard Electrical Housing. Fits standard 2 3/8" O.D. horizontal tenon. Two (2) straps with two (2) bolts each encircle the lower half of the tenon. Upper half of the tenon rests on self-centering steps that position the angle of the luminaire at 0°, +1.5°, +1.5 or +3° up from the horizontal. All hardware is stainless steel.

Pole Cap —

(2) Through Bolts —

U.S. Pole Company Inc | 660 West Avenue O, Palmdale, CA 93551 An Employee Owned Company | Phone (661) 233-2000 www.usaltg.com

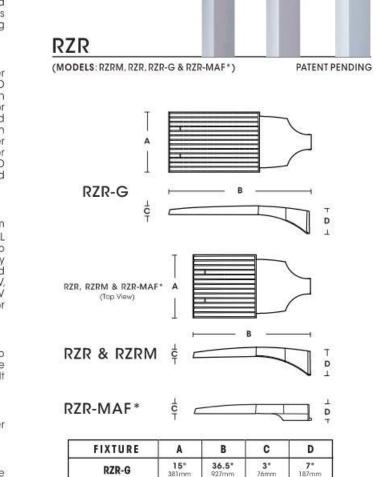
RZR SERIES - LED

RZR Installation

RZR-MAF Installation

RZR-WM Installation

INSTALLATION DETAIL



U.L. Listed for	
U.L. Listed for Wet Location	2022158

14.75" 28.25" 2.75" 6.5" 375mm 718mm 70mm 165mm



- (2) Nuts and

- Square Pole

(2) Through Bolts —

Round Pole-Adaptor provided

w/ Gasket

 Hinged Driver Compartment Door

Pole Cap —

(2) Washers

PROJECT NAME:

RZR-MAF

U.S. ARCHITECTURA

(2) Washers

Round Pole

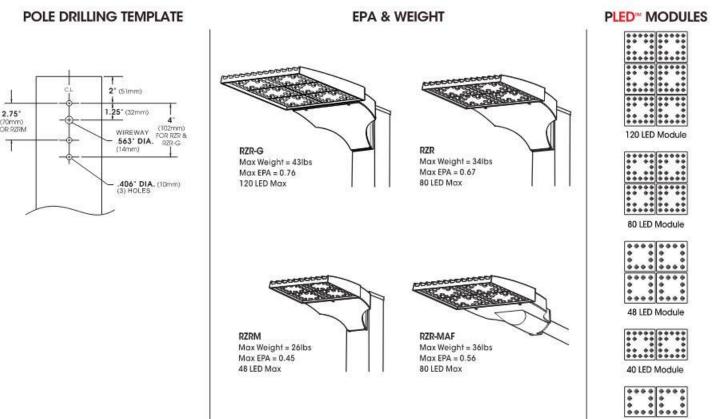
RZR-MAF accepts 2.375" O.D. Arm for others, consult factory

provided

RZR SERIES - LED

SPECIFICATIONS

ORDERING INFORMATION



Luminaire	Optics		LED		Voltage	Mounting	Finish	Options	
	PLED" Distribution Type	# of LEDs RZR-G	Drive Current	Color Temp - CCT	(0.5)	Arm Mount	Standard Textured Finish	Internal House Side S inc. LED Count (Example: HSPLED/48)	Shield
☐ RZR-G	Type II PLED-II	☐ 120LED	☐ 1050mA¹ ☐ 875mA¹	☐ 27K (2700K) ☐ 30K (3000K)	□ 120 □ 208	□ <u>1</u>	Black RAL-9005-T	External Glare Shield 4 Sided	-
	Type II Front Row PLED-II-FR		☐ 700mA ¹	□ 40K (4000K)	□ 240	□ 2-180	☐ White RAL-9003-T	External Glare Shield 3 Sided Rear Wedge	
	Type III Median	= = ==	☐ 525mA ☐ 350mA	□ 50K (5000K)	☐ 277 ☐ 347	□ 2-90 🖫	Grey RAL-7004-T	Round Pole Adapter Twist Lock Receptable	
□ RZR □ RZR-MAF □ RZR-MAF	PLED-II-MIL Type III Med. PLED-III Type III Wide PLED-III-W Type IV Type IV	RZR/RZR-MA 80LED 40LED RZRM	NOTES:	TRA True Amber ² Consult Factory for Other LED Color, CCT, & CRI Options	480	□ 3-90 · · · · · · · · · · · · · · · · · · ·	Dark Bronze RAL-8019-T Green RAL-6005-T Premium Finishes Rust	Only 7-Pin Twist Lock Receptable Only High-Low Dimming for Switch by Others/Selec Levels 50/100 or 25/10 (Example: HLSW/25) Twist Lock Photocell (Example: TPC347V) Photo Cell + Voltage	TPR7 TPR7 TPR7 HLSW Voltage TPC+V
	PLED-IV-FT Type V Narrow PLED-VSQ-N Type V Med. PLED-V-SQ-M Type V Wide PLED-V-SQ-W	□ 48LED □ 24LED	drive currer Consult	350mA & 525mA		Wall Mount WM - Wall Mount provided with mounting bracket and cover.	Patina Copper PC For smooth finish replace suffix "7" with suffix "5" (Example: RAL-9500-5) Consult factor for custom octors	(Example: PC120V) Single Fuse (120V, 277V) Double Fuse (268V, 240V) Blue-Tooth Programm Photo/Motion Senso (Fociory - Motion 50/100 Photo 75fc)	PC+V SF DF mable

RZR SERIES - LED

PHOTOMETRIC DATA GUIDE - LM-80 LUMEN MAINTENANCE

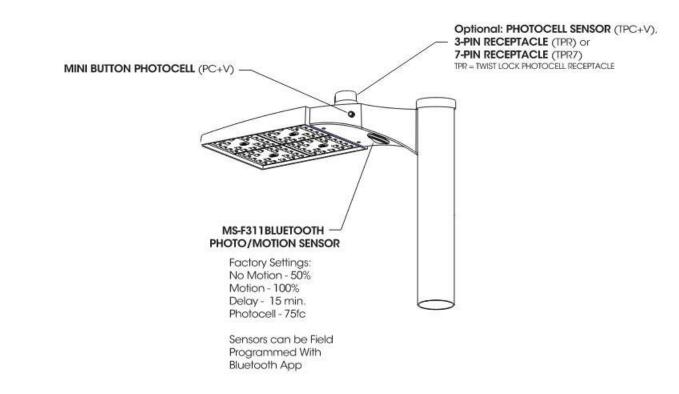
LED Life / Operating Hours	Lumen Depreciation	Lumen Depreciation Scale Factor	Lumen Depreciation Calculations Done in Accordance With IESNA TM-21 & LM-80 (25°C Ambient TM-21 6x Test Time Dicatates that L94 > 60,000 Hours.
60,000 (10x Test Time Calculated)	L94	0.94x	
100,000 (Theoretical Calculated)	L92	0.92x	
150,000 (Theoretical Calcualted)	L89	0.89x	

ELECTRICAL DATA GUIDE - AMPERAGE CHARTS

# of LEDs	mA	System Watts	120V	208V	277V	347V	480V
24	350	28	0.24	0.14	0.10	0.08	0.06
24	525	42	0.35	0.20	0.15	0.12	0.09
24	700	56	0.47	0.27	0.20	0.16	0.12
24	875	68	0.57	0.33	0.24	0.20	0.14
24	1050	82	0.68	0.39	0.30	0.24	0.17
48	350	53	0.44	0.25	0.19	0.15	0.11
48	525	79	0.66	0.38	0.29	0.23	0.16
48	700	105	0,88	0.51	0.38	0.30	0.22
48	875	132	1.10	0.63	0.48	0.38	0.27
48	1050	160	1.33	0.77	0.58	0.46	0.33
40	350	43	0.36	0.21	0.15	0.12	0.09
40	525	65	0.54	0.31	0.23	0.19	0.13
40	700	87	0.72	0.42	0.31	0.25	0.18
40	875	108	0.90	0.52	0.39	0.31	0.23
40	1050	128	1.07	0.62	0.46	0.37	0.27
80	350	85	0.71	0.41	0.31	0.25	0.18
80	525	129	1.08	0.62	0.47	0.37	0.27
80	700	174	1.45	0.83	0.63	0.50	0.36
80	875	216	1.80	1.04	0.78	0.62	0.45
80	1050	256	2.14	1.23	0.93	0.74	0.53
120	350	130	1.08	0.63	0.47	0.37	0.27
120	525	192	1.60	0.92	0.69	0.55	0.40
120	700	260	2.17	1.25	0.94	0.75	0.54
120	875	329	2.74	1.58	1.19	0.95	0.69
120	1050	398	3.32	1.91	1.44	1.15	0.83

RZR SERIES - LED

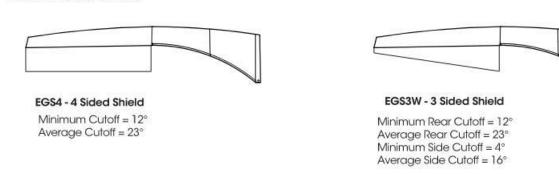
OPTIONS



High Low Dimming For Switches (HLSW) The HLSW is a Small Electronic Switch which Provides High Low Dimming Control Through the LED Driver's 0-10V Control. Switching is Done by Adding a Seconday AC Switched Hot Trigger Line to the HLSW in Addition to the Normal AC Power Line. When the Secondary Trigger Line is Powered, the Fixture will go to 100% Dimming. With no Power to the Trigger, the Fixture will operate at 50% or 25% Dimming. Switches for the Trigger Line can be a Normal AC Switch/Breaker or Timed Switch/Breaker.

Wireless and Other Fixture Controls Contact Factory for Wireless and Other Fixture Controls and Recomendations. Most Controls Can be Integrated and Factory Installed.

EXTERNAL GLARE SHIELDS



Glare Shields are rotatable on RZR and RZRM. Consult factory for custom applications.

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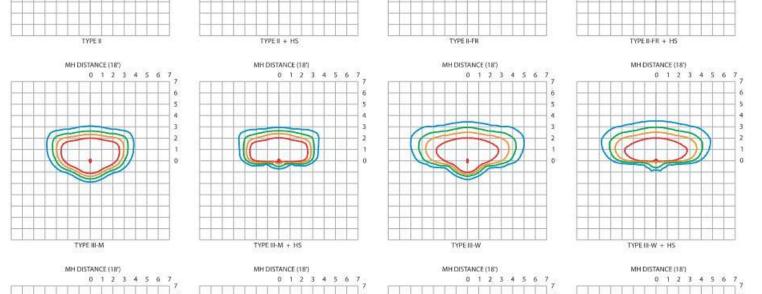


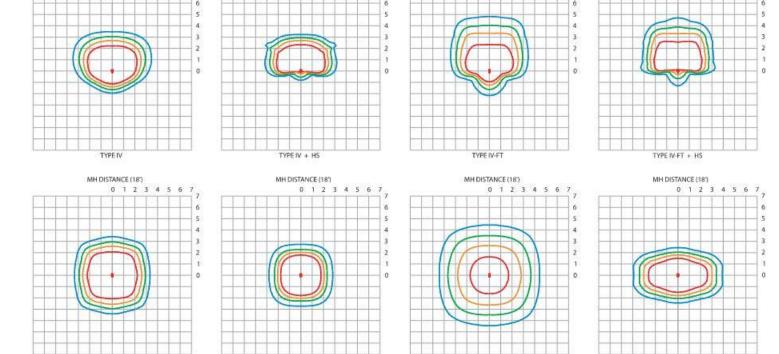


RZR SERIES - LED

PHOTOMETRIC DATA GUIDE - ISOFOOTCANDLE PLOTS

RZRM-PLED-48LED-700mA-40K - 18' Pole Height





IES File downloads for this product can be found at $\underline{www.usaltg.com/downloads/asr.html}$

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Phone (661) 233-2000 www.usaltg.com



U.S. ARCHITECTURAL

Hufft

PROJECT INFORMATION: **Andy's Frozen Custard** Lantana 3800 FM 407, Bartonville, TX 76226

OWNER: ANDY'S FROZEN CUSTARD 211 E. Water Street

Springfield, MO 65806 www.eatandys.com ARCHITECT:

HUFFT 3612 Karnes Boulevard Kansas City, MO 64111

P: 816-531-0200 www.hufft.com STRUCTURAL:

METTEMEYER ENGINEERING, LLC 2225 W. Chesterfield Blvd., Suite 300 Springfield, MO 65807 P: 417-890-8002

CIVIL: KIMLEY-HORN 13455 Noel Road - Suite 700

TX, Dallas 75240 P: 972.770.1300

RTM ENGINEERING CONSULTANTS 3333 E. Battelfield Road, Suite 1000 Springfield, MO 65804 P: 417-881-0020

LANDSCAPE ARCHITECT: KIMLEY-HORN 13455 Noel Road - Suite 700 TX, Dallas 75240

P: 972.770.1300

CONSTRUCTION DOCUMENTS 11/6/2023

REVISION SCHEDULE: NO. DATE ISSUE

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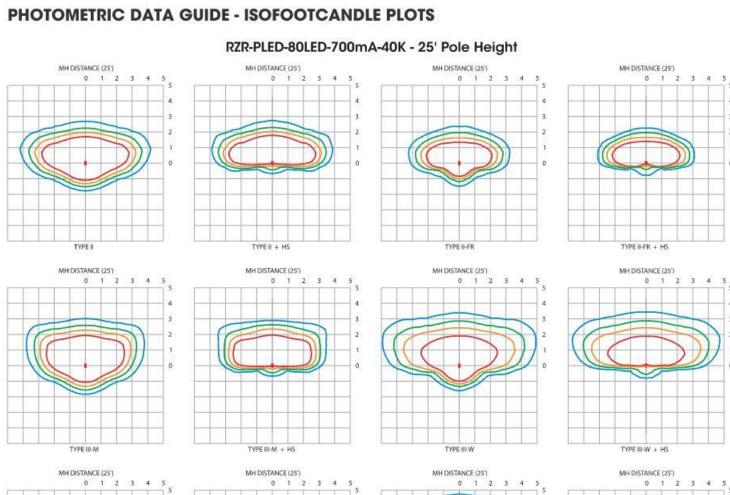
Wall Plate -



24 LED Module

Spec/Order Example: RZR/PLED-IV/80LED-700mA/CW/277/RAL-8019-S

RZR SERIES - LED



______ 1.0fc _______ 0.50fc ______ 0.25fc ______ 0.10fc

IES File downloads for this product can be found at www.usaltg.com/downloads/asr.html

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RZR SERIES - LED

PHOTOMETRIC DATA GUIDE - LUMEN TARLES (R7PM-PLED)

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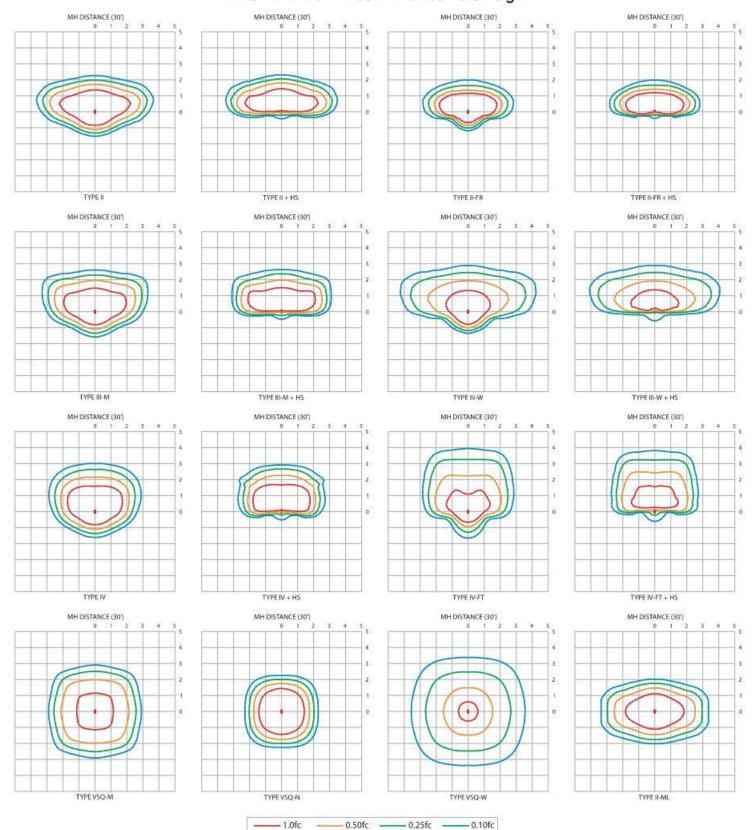
									RZ	R-M-PL	.ED								
LED	Drive	System	Dist'n	27	K (2700	K - 70CRI)	30	K (3000	K - 70CRI)	401	K (4000)	(- 70CRI)	50K	(5000k	(- 70CRI)	System		TRA (59	0nm)
ount	Current (mA)	Watts	Туре	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	Watts	LUMENS	LPW	BUG RATING
			II.	6836	130	B2-U0-G2	7380	141	B2-U0-G2	7769	148	B2-U0-G2	8157	155	B2-U0-G2		2713	66	B1-U0-G1
		8	II-FR II-ML	6882 6837	131	B2-U0-G1 B3-U0-G3	7430 7380	142	82-U0-G1 83-U0-G3	7821 7769	149	B2-U0-G1 B3-U0-G3	8212 8157	156 155	B2-U0-G1 B3-U0-G3		2731 2713	67	B1-U0-G1 B1-U0-G1
		- 5	III-M	6956	132	B2-U0-G2	7509	143	B2-U0-G2	7905	151	B2-U0-G2	8300	158	B2-U0-G2		2760	67	B1-U0-G1
		3	III-W	6459	123	B1-U0-G2	6972	133	81-U0-G2	7339	140	B1-U0-G2	7706	147	B1-U0-G2		2563	63	B1-U0-G1
		s	IV	6903	131	B2-U0-G2	7453	142	82-U0-G2	7845	149	B2-U0-G2	8237	157	B2-U0-G2		2740	67	B1-U0-G1
	12000	500000	IV-FT VSQ-N	6289 7216	120	B1-U0-G2 B2-U0-G1	6789 7790	129 148	B1-U0-G2 B2-U0-G1	7146 8200	136 156	B1-U0-G2 B3-U0-G1	7503 8610	143	B2-U0-G2 B3-U0-G1	59835	2496 2864	61 70	B1-U0-G1 B1-U0-G0
18	350	52.5	VSQ-M	7076	135	B3-U0-G1	7639	146	83-U0-G2	8041	153	B3-U0-G2	8443	161	B3-U0-G2	41.0	2808	68	82-U0-G1
			VSQ-W	6907	132	B3-U0-G2	7456	142	B3-U0-G2	7849	150	B3-U0-G2	8242	157	B3-U0-G2		2741	67	82-U0-G1
		1 3	II-HS	5000	95	B1-U0-G2	5398	103	B1-U0-G2	5682	108	B1-U0-G2	5966	114	B1-U0-G2		1984	48	80-U0-G1
		1 8	III-FR-HS	5087 5059	97 96	B0-U0-G1 B0-U0-G2	5491 5461	105	B0-U0-G1 B0-U0-G2	5780 5748	110	B1-U0-G1 B0-U0-G2	6069	116	B1-U0-G1 B0-U0-G2		2018	49	80-U0-G0 80-U0-G1
		1 8	III-W-HS	4952	94	B0-U0-G2	5345	102	BQ-U0-G2	5627	107	BQ-U0-G2	5908	113	B0-U0-G2		1965	48	80-U0-G1
		1 3	IV-HS	5224	100	B0-U0-G2	5640	107	B0-U0-G2	5937	113	B0-U0-G2	6234	119	B0-U0-G2	1	2074	51	80-U0-G1
			IV-FT-HS	4938	94	B0-U0-G2	5330	102	B0-U0-G2	5611	107	B0-U0-G2	5892	112	B0-U0-G2		1960	48	80-U0-G1
			II-FR	9720 9785	123	B2-U0-G2 B2-U0-G1	10493 10564	133	82-U0-G2 82-U0-G1	11046 11120	140	B2-U0-G2 B2-U0-G1	11598 11676	147	B2-U0-G2 B3-U0-G1		3143 3164	51	B1-U0-G1 B1-U0-G1
		8	II-ML	9720	123	B3-U0-G3	10304	133	B3-U0-G3	11046	141	B3-U0-G3	11598	147	B3-U0-G3		3143	51	82-U0-G2
			III-M	9891	125	B2-U0-G2	10677	135	B2-U0-G2	11240	142	B2-U0-G2	11801	149	B2-U0-G2		3198	52	81-U0-G1
		8	III-W	9183	116	B2-U0-G3	9914	125	B2-U0-G3	10436	132	B2-U0-G3	10958	139	B2-U0-G3		2969	48	81-U0-G1
		8	IV	9816	124	B2-U0-G2	10597	134	82-U0-G2	11155	141	B2-U0-G2	11712	148	B2-U0-G2		3174	51	81-U0-G1
		8	IV-FT VSQ-N	8942 10260	113	B2-U0-G2 B3-U0-G1	9653 11075	122	B2-U0-G3 B3-U0-G1	10161	129	B2-U0-G3 B3-U0-G1	10669 12242	135 155	B2-U0-G3 B3-U0-G1		2892 3317	47 54	B1-U0-G1 B2-U0-G0
18	525	79,0	VSQ-M	10060	127	B3-U0-G2	10861	137	B4-U0-G2	11432	145	B4-U0-G2	12004	152	84-U0-G2	62.0	3253	52	82-U0-G1
			VSQ-W	9821	124	B4-U0-G3	10602	134	B4-U0-G3	11160	141	B4-U0-G3	11718	148	B4-U0-G3		3175	51	B2-U0-G1
			II-HS	7110	90	B1-U0-G2	7675	97	81-U0-G2	8079	102	B1-U0-G2	8483	107	B1-U0-G2		2298	37	B0-U0-G1
			II-FR-HS	7231	92	B1-U0-G1	7806	99	B1-U0-G1	8217	104	B1-U0-G1	8628	109	B1-U0-G1		2339	38	80-U0-G0
		1	III-M-HS	7192	91	B0-U0-G2 B0-U0-G2	7764 7600	98 96	B1-U0-G2 B0-U0-G2	8173 8000	103	B1-U0-G2 B1-U0-G2	8581 8400	109	B1-U0-G2 B1-U0-G2		2325 2276	38 37	80-U0-G1 80-U0-G1
		8	IV-HS	7429	94	B1-U0-G2	8020	102	B1-U0-G2	8442	107	B1-U0-G2	8864	112	B1-U0-G2		2402	39	80-U0-G1
			IV-FT-HS	7020	89	B1-U0-G3	7579	96	B1-U0-G3	7978	101	B1-U0-G3	8377	106	B1-U0-G3		2270	37	B0-U0-G1
ľ		11	12226	116	B2-U0-G2	13199	126	82-U0-G2	13894	132	B2-U0-G2	14588	139	B3-U0-G2		A 200 PAGE 183	210 - 200 - 01	1	
		1 3	II-FR II-ML	12308 12227	117	B3-U0-G1 B3-U0-G3	13287 13200	126 126	B3-U0-G1 B3-U0-G3	13986 13894	133	B3-U0-G1	14686 14589	140	B3-U0-G1 B4-U0-G4				
		8	III-M	12440	116	B2-U0-G2	13430	128	B2-U0-G2	14137	135	B3-U0-G3 B2-U0-G2	14843	141	82-U0-G2				
		3	III-W	11550	110	B2-U0-G3	12468	119	82-U0-G3	13125	125	B2-U0-G3	13781	131	B2-U0-G3				
		1 8	IV	12346	117	B2-U0-G2	13329	127	B2-U0-G2	14030	133	B2-U0-G2	14731	140	B2-U0-G2	1			
		1 8	IV-FT	11247	107	B2-U0-G3	12141	116	82-U0-G3	12780	122	B2-U0-G3	13419	128	B2-U0-G3				
18	700	105.1	VSQ-M	12904 12654	123	B3-U0-G1 B4-U0-G2	13931 13660	133	B3-U0-G1 B4-U0-G2	14663	140	B3-U0-G1 B4-U0-G2	15397 15099	146	B3-U0-G1 B4-U0-G2	N/A		N/A	
		8	VSQ-W	12352	118	B4-U0-G3	13334	127	B4-U0-G3	14036	134	B4-U0-G3	14738	140	B4-U0-G2 B4-U0-G3				
		3	II-HS	8942	85	B1-U0-G2	9653	92	B1-U0-G2	10161	97	B1-U0-G2	10669	102	B1-U0-G2				
			II-FR-HS	9095	87	B1-U0-G1	9819	93	B1-U0-G1	10336	98	B1-U0-G1	10852	103	B1-U0-G1	1			
			III-M-HS	9045	86	B1-U0-G2	9765	93	B1-U0-G2	10279	98	B1-U0-G2	10793	103	B1-U0-G2				
		1 8	III-W-HS	8854 9344	84	B1-U0-G2 B1-U0-G2	9558 10087	91 96	B1-U0-G3 B1-U0-G2	10062 10618	96 101	B1-U0-G3 B1-U0-G2	10565 11149	101	B1-U0-G3 B1-U0-G2				
			IV-FT-HS	8831	84	B1-U0-G3	9533	91	B1-U0-G3	10035	95	B1-U0-G3	10537	100	B1-U0-G3				
			11	14829	113	B3-U0-G2	16008	121	B3-U0-G3	16851	128	B3-U0-G3	17693	134	B3-U0-G3				
		9	II-FR	14928	113	B3-U0-G2	16115	122	83-U0-G2	16964	129	B3-U0-G2	17812	135	B3-U0-G2				
			II-ML	14829	113	B4-U0-G4	16009	121	B4-U0-G4	16851	128	B4-U0-G4	17694	134	84-U0-G4				
		8	III-W	15088	114	B2-U0-G2 B2-U0-G3	16288 15123	124	83-U0-G3 82-U0-G3	17145 15919	130	B3-U0-G3 B3-U0-G3	18003 16715	137	83-U0-G3 83-U0-G3				
		8	IV	14975	114	B2-U0-G2	16166	123	B3-U0-G2	17017	129	B3-U0-G3	17867	136	B3-U0-G3				
		8	IV-FT	13641	103	B2-U0-G3	14726	112	B3-U0-G3	15501	118	B3-U0-G3	16276	123	B3-U0-G3	1			
8	875	131.8	VSQ-N	15652	119	B3-U0-G1	16897	128	B4-U0-G2	17786	135	B4-U0-G2	18675	142	B4-U0-G2	N/A		N/A	
			VSQ-M VSQ-W	15348	116	B4-U0-G2 B4-U0-G3	16568	126	B4-U0-G2	17440	132	B4-U0-G2	18312	139	84-U0-G2				
		18	II-HS	14981	114 82	B1-U0-G2	16173	123	B4-U0-G3 B1-U0-G2	17024 12324	94	B5-U0-G3 B1-U0-G2	17876 12940	136 98	B5-U0-G3 B1-U0-G2				
		8	II-FR-HS	11032	84	B1-U0-G1	11909	90	B1-U0-G2	12536	95	B1-U0-G2	13162	100	B1-U0-G2				
			III-M-HS	10971	83	B1-U0-G2	11844	90	B1-U0-G3	12467	95	B1-U0-G3	13091	99	B1-U0-G3]			
			III-W-HS	10739	81	B1-U0-G3	11594	88	B1-U0-G3	12204	93	B1-U0-G3	12814	97	B1-U0-G3				
		9	IV-HS IV-FT-HS	11333	86 81	B1-U0-G2 B1-U0-G3	12234 11562	93 88	B1-U0-G2 B1-U0-G3	12878 12171	98 92	B1-U0-G3 B1-U0-G3	13522 12779	103	B1-U0-G3 B1-U0-G3				
_			11	17044	107	B3-U0-G3	18400	115	B3-U0-G3	19369	121	B3-U0-G3	20337	127	B3-U0-G3				
			#-FR	17159	108	B3-U0-G2	18523	116	B3-U0-G2	19498	122	B3-U0-G2	20473	128	B3-U0-G2	1			
		1 3	II-ML	17045	107	B4-U0-G4	18401	115	B4-U0-G4	19369	121	B4-U0-G4	20338	127	B4-U0-G4				
		8	III-M	17342	109	B3-U0-G3	18722	117	B3-U0-G3	19707	123	B3-U0-G3	20692	130	B3-U0-G3				
		- 5	III-W	16102 17212	101	B3-U0-G3 B3-U0-G3	17383 18582	109	B3-U0-G3 B3-U0-G3	18298 19559	115	B3-U0-G3 B3-U0-G3	19213 20537	120	B3-U0-G4 B3-U0-G3				
		8	IV-FT	15680	98	B3-U0-G3	16927	106	B3-U0-G3	17818	112	B3-U0-G3	18708	117	83-U0-G4				
18	1050	159.6	VSQ-N	17990	113	B4-U0-G2	19421	122	B4-U0-G2	20443	128	B4-U0-G2	21466	134	B4-U0-G2	N/A		NI/A	
-0	1000	139.0	VSQ-M	17641	111	B4-U0-G2	19044	119	B4-U0-G2	20046	126	B4-U0-G2	21048	132	B4-U0-G2	N/A		N/A	
			VSQ-W	17220	108	B5-U0-G3	18590	116	B5-U0-G3	19568	123	B5-U0-G3	20546	129	B5-U0-G3				
		1 8	II-HS II-FR-HS	12465 12680	78 79	B1-U0-G2 B1-U0-G2	13457 13688	84 86	B1-U0-G3 B1-U0-G2	14165 14409	89 90	B1-U0-G3 B1-U0-G2	14873 15129	93 95	B1-U0-G3 B1-U0-G2				
		8	III-M-HS	12611	79	B1-U0-G2 B1-U0-G3	13614	85	B1-00-G2 B1-U0-G3	14330	90	B1-00-G2 B1-U0-G3	15129	94	B1-00-G2 B1-U0-G3				
			III-W-HS	12344	77	B1-U0-G3	13326	83	B1-U0-G3	14027	88	B1-U0-G3	14728	92	B1-U0-G4				
			IV-HS	13026	82	B1-U0-G3	14062	88	B1-U0-G3	14802	93	B1-U0-G3	15542	97	B1-U0-G3				
	ı	I. I	IV-FT-HS	12311	77	B1-U0-G3	13290	83	B1-U0-G3	13989	88	B1-U0-G4	14689	92	B1-U0-G4		v.		

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RZRG-PLED-120LED-700mA-40K 30' Pole Height



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RZR SERIES - LED

PHOTOMETRIC DATA GUIDE - LUMEN TABLES (RZR-PLED)

									R	ZR-PLE	D								
LED	Drive	System	Dist'n	278	(2700)	K - 70CRI)	30K	(3000K	- 70CRI)	401	(4000K	- 70CRI)	50K	(5000K	- 70CRI)	System	1	RA (59	Onm)
ount	Current (mA)	Watts	Туре	LUMENS	LPW	BUG RATING	Watts	LUMENS	LPW	BUG RATIN									
		8	II II-FR	5819 5858	136	B2-U0-G1 B2-U0-G1	6281	147 148	B2-U0-G1 B2-U0-G1	6612 6657	155 156	B2-U0-G2 B2-U0-G1	6943 6990	163 164	B2-U0-G2 B2-U0-G1		2309 2325	70 70	B1-U0-G1 B1-U0-G0
		8	II-ML	5819	136	B3-U0-G3	6282	147	B3-U0-G3	6612	155	B3-U0-G3	6943	163	B3-U0-G3		2309	70	B1-00-G0
		1 8	III-M	5921	139	B1-U0-G2	6392	150	B2-U0-G2	6728	158	B2-U0-G2	7065	165	B2-U0-G2		2349	71	B1-U0-G1
		8	III-W	5497	129	B1-U0-G2	5935	139	81-U0-G2	6247	146	B1-U0-G2	6559	154	B1-U0-G2		2182	66 71	B1-U0-G1 B1-U0-G1
		8	IV-FT	5876 5353	138 125	B1-U0-G2 B1-U0-G2	6344 5778	135	82-U0-G2 B1-U0-G2	6083	156 142	B2-U0-G2 B1-U0-G2	7011 6387	150	B2-U0-G2 B1-U0-G2		2332 2124	64	B1-00-G1
40	350	42.7	VSQ-N	6141	144	B2-U0-G1	6630	155	B2-U0-G1	6979	163	B2-U0-G1	7328	172	B2-U0-G1	33.0	2438	74	B1-U0-G0
.40.	330	344.6	VSQ-M	6023	141	B3-U0-G1	6502	152	B3-U0-G1	6844	160	B3-U0-G1	7186	168	B3-U0-G1	33.0	2390	72	82-U0-G1
		28	VSQ-W II-HS	5879 4256	138	B3-U0-G2 B0-U0-G1	6346 4594	149	B3-U0-G2 B1-U0-G1	6680 4836	156 113	B3-U0-G2 B1-U0-G2	7015 5077	164	B3-U0-G2 B1-U0-G2		2333 1689	71 51	82-U0-G1 80-U0-G0
		9	II-FR-HS	4329	101	B0-U0-G1	4673	109	80-U0-G1	4919	115	B0-U0-G1	5165	121	80-U0-G1		1718	52	80-U0-G0
		8	III-MHS	4305	101	B0-U0-G2	4647	109	BO-U0-G2	4892	115	BO-U0-G2	5137	120	BO-U0-G2		1708	52	80-U0-G1
		2	III-W-HS	4214 4447	99	B0-U0-G2	4550 4801	107	BO-U0-G2	4789 5054	112	B0-U0-G2	5028 5306	118	B0-U0-G2 B0-U0-G2		1673 1764	51	80-U0-G1
		- 8	IV-FT-HS	4203	98	B0-U0-G1 B0-U0-G2	4537	106	B0-U0-G2 B0-U0-G2	4776	112	BO-U0-G2 BO-U0-G2	5015	117	B0-U0-G2		1668	51	80-U0-G1 80-U0-G1
		9 3	II	8396	130	B2-U0-G2	9064	140	B2-U0-G2	9541	147	B2-U0-G2	10017	155	B2-U0-G2		2715	53	B1-U0-G1
			II-FR	8452	131	B2-U0-G1	9125	141	82-U0-G1	9605	148	B2-U0-G1	10085	156	B2-U0-G1		2733	-54	B1-U0-G1
		15	II-ML III-M	8396 8543	130	B3-U0-G3 B2-U0-G2	9064 9223	140	83-U0-G3 82-U0-G2	9541 9708	147	B3-U0-G3 B2-U0-G2	10018	155 158	B3-U0-G3 B2-U0-G2		2715 2762	53 54	81-U0-G1 81-U0-G1
		1	III-W	7932	123	B2-U0-G2 B2-U0-G2	8563	132	B2-U0-G2 B2-U0-G2	9013	139	B2-00-G2 B2-U0-G3	9464	146	B2-U0-G2 B2-U0-G3		2565	50	81-U0-G1
			IV	8478	131	B2-U0-G2	9152	141	82-U0-G2	9634	149	B2-U0-G2	10116	156	B2-U0-G2		2742	54	81-U0-G1
			IV-FT	7724	119	B2-U0-G3	8338	129	82-U0-G3	8777	136	B2-U0-G3	9216	142	82-U0-G3		2497	49	B1-U0-G1
40	525	64.7	VSQ-N VSQ-M	8861 8690	137	B3-U0-G1 B3-U0-G2	9566 9381	148 145	B3-U0-G1 B3-U0-G2	10070 9875	156 153	B3-U0-G1 B3-U0-G2	10574 10369	163	B3-U0-G1 B3-U0-G2	51.0	2866 2809	56 55	B1-U0-G0 B2-U0-G1
			VSQ-W	8483	131	B4-U0-G2	9157	142	B4-U0-G2	9640	149	B4-U0-G3	10122	156	B4-U0-G3		2743	54	B2-U0-G1
		0	II-HS	6141	95	B1-U0-G2	6629	102	81-U0-G2	6978	108	B1-U0-G2	7327	113	B1-U0-G2		1985	39	B0-U0-G1
			II-FR-HS	6246	97	B1-U0-G1	6743	104	B1-U0-G1	7098	110	B1-U0-G1	7453	115	B1-U0-G1		2020	40	B0-U0-G0
		1	III-M-HS	6212	96 94	B0-U0-G2 B0-U0-G2	6706 6564	104	B0-U0-G2 B0-U0-G2	7060 6910	109	B0-U0-G2 B0-U0-G2	7412 7255	115	B0-U0-G2 B0-U0-G2		2009 1966	39	80-U0-G1 80-U0-G1
		8	IV-HS	6417	99	B0-U0-G2	6927	107	B0-U0-G2	7292	113	BO-U0-G2	7656	118	B1-U0-G2		2075	41	80-U0-G1
			IV-FT-HS	6064	94	BO-U0-G2	6546	101	B0-U0-G2	6891	107	B1-U0-G2	7235	112	B1-U0-G3		1960	38	80-U0-G1
			1	10669	123	B2-U0-G2	11518	133	82-U0-G2	12124	140	B2-U0-G2	12730	147	B2-U0-G2		0) 1111/00/04/19	ticate o	0. 100000000
		3	II-FR	10740	124	B2-U0-G1 B3-U0-G3	11594 11518	134	B3-U0-G1 B3-U0-G3	12205 12124	141	B3-U0-G1 B3-U0-G3	12815 12731	148	B3-U0-G1 B3-U0-G3				
		S	III-M	10856	125	B2-U0-G2	11719	135	82-U0-G3	12336	140	B2-U0-G2	12751	147	B2-U0-G2				
		3	III-W	10079	116	B2-U0-G3	10880	125	B2-U0-G3	11453	132	B2-U0-G3	12026	139	B2-U0-G3				
		8	IV	10774	124	B2-U0-G2	11630	134	B2-U0-G2	12243	141	B2-U0-G2	12855	148	B2-U0-G2				
	2007529	lana di	IV-FT VSQ-N	9814 11260	113	B2-U0-G3 B3-U0-G1	10595 12156	122	B2-U0-G3 B3-U0-G1	11153 12796	128	B2-U0-G3 B3-U0-G1	11710 13435	135 155	B2-U0-G3 B3-U0-G1				
40	700	86.8	VSQ-M	11042	127	B4-U0-G2	11920	137	B4-U0-G2	12548	145	B4-U0-G2	13175	152	B4-U0-G2	N/A		N/A	,
		3	VSQ-W	10778	124	B4-U0-G3	11636	134	B4-U0-G3	12248	141	B4-U0-G3	12860	148	B4-U0-G3				
		8	II-HS	7803	90	B1-U0-G2	8423	97	B1-U0-G2	8866	102	B1-U0-G2	9310	107	B1-U0-G2				
		- 8	III-FR-HS	7937 7893	91	B1-U0-G1 B1-U0-G2	8568 8521	99	B1-U0-G1 B1-U0-G2	9019 8970	104	B1-U0-G1 B1-U0-G2	9470 9418	109	B1-U0-G1 B1-U0-G2				
		8	III-W-HS	7726	89	B0-U0-G2	8341	96	B1-00-G2	8780	101	B1-U0-G2	9218	106	B1-U0-G2				
		3	IV-HS	8153	94	B1-U0-G2	8802	101	B1-U0-G2	9265	107	B1-U0-G2	9728	112	B1-U0-G2				
			IV-FT-HS	7705	89	B1-U0-G3	8318	96	B1-U0-G3	8756	101	B1-U0-G3	9194	106	B1-U0-G3				
		- 8	II-FR	12366 12448	114	B2-U0-G2 B3-U0-G1	13349 13439	124 124	B2-U0-G2 B3-U0-G1	14052 14146	130	B2-U0-G2 B3-U0-G1	14754 14853	137	B3-U0-G2 B3-U0-G2				
		3	II-ML	12366	115	B3-U0-G3	13349	124	B3-U0-G3	14052	130	B3-U0-G3	14755	137	B4-U0-G4				
			III-M	12581	116	B2-U0-G2	13582	126	B2-U0-G2	14297	132	B2-U0-G2	15012	139	B2-U0-G2				
		8	III-W	11682	108	B2-U0-G3	12611	117	82-U0-G3	13275	123	B2-U0-G3	13939	129	82-U0-G3				
		16	IV-FT	12487 11375	116	B2-U0-G2 B2-U0-G3	13480 12280	125	B2-U0-G2 B2-U0-G3	14189 12926	131	B2-U0-G2 B2-U0-G3	14899 13573	138	B2-U0-G2 B2-U0-G3				
30	0.75	108.0	VSQ-N	13051	121	B3-U0-G1	14089	130	B3-U0-G1	14830	137	B3-U0-G1	15572	144	83-U0-G1	NIZA		- 8174	
40	875	108.0	VSQ-M	12798	118	B4-U0-G2	13816	128	B4-U0-G2	14543	135	B4-U0-G2	15270	141	B4-U0-G2	N/A		N/A	
		į,	VSQ-W IIHIS	12492	116	B4-U0-G3	13486	125	B4-U0-G3	14196	131	B4-U0-G3	14905	138	B4-U0-G3				
		39	II-FR-HS	9044 9199	84 85	B1-U0-G2 B1-U0-G1	9763 9930	90	B1-U0-G2 B1-U0-G1	10277 10453	95 97	B1-U0-G2 B1-U0-G1	10791 10976	100	B1-U0-G2 B1-U0-G1	ê			
			III-M-HS	9149	85	B1-U0-G2	9876	91	81-U0-G2	10396	96	B1-U0-G2	10916	101	81-U0-G2				
		0	III-W-HS	8955	83	B1-U0-G2	9667	90	B1-U0-G3	10176	94	B1-U0-G3	10685	99	B1-U0-G3				
		i i	IV-HS	9450	87	B1-U0-G2	10201	94	B1-U0-G2	10738	99	B1-U0-G2	11275	104	B1-U0-G2				
			IV-FT-HS	8931 14213	83	B1-U0-G3 B2-U0-G2	9641 15344	89 120	B1-U0-G3 B3-U0-G2	10149	94 126	B1-U0-G3 B3-U0-G3	10656 16959	99 132	B1-U0-G3 B3-U0-G3				
			II-FR	14308	112	B3-U0-G1	15446	120	B3-U0-G2	16259	127	B3-U0-G2	17072	133	B3-U0-G2				
		1 3	IHML	14214	111	B3-U0-G3	15344	120	B4-U0-G4	16152	126	B4-U0-G4	16959	132	B4-U0-G4				
		8	III-W	13427	113	B2-U0-G2 B2-U0-G3	15612 14495	122	B3-U0-G2 B2-U0-G3	16433 15258	128	B3-U0-G3 B2-U0-G3	17255 16021	135 125	B3-U0-G3 B3-U0-G3				
		- 6	IV.	14352	112	B2-U0-G3 B2-U0-G2	15494	121	B3-U0-G3	16309	127	B3-U0-G3	17125	134	B3-U0-G3 B3-U0-G3				
		1 8	IV-FT	13075	102	B2-U0-G3	14115	110	B2-U0-G3	14858	116	B3-U0-G3	15601	122	B3-U0-G3				
40	1050	128.2	VSQ-N	15001	117	B3-U0-G1	16194	126	B4-U0-G1	17046	133	B4-U0-G2	17899	140	B4-U0-G2	N/A		N/A	Č.
	UNIVERSE S	1,500,50	VSQ-M	14710	115	B4-U0-G2	15880	124	B4-U0-G2	16716	130	B4-U0-G2	17552	137	B4-U0-G2	1776788		5.00	X
		8	VSQ-W II-HS	14359 10395	112 81	B4-U0-G3 B1-U0-G2	15501 11222	121 88	B4-U0-G3 B1-U0-G2	16317 11813	127 92	B4-U0-G3 B1-U0-G2	17132 12403	134 97	B5-U0-G3 B1-U0-G2				
		- 8	II-FR-HS	10573	82	B1-00-G2	11414	89	B1-U0-G2	12015	94	B1-00-G2	12616	98	B1-U0-G2				
		3	III-M-HS	10516	82	B1-U0-G2	11352	89	B1-U0-G2	11949	93	B1-U0-G3	12547	98	B1-U0-G3				
		3	⊪-W-HS	10293	80	B1-U0-G3	11112	87	B1-U0-G3	11696	91	B1-U0-G3	12281	96	B1-U0-G3				
			IV-HS	10862	85	B1-U0-G2	11726	91	B1-U0-G2	12343	96	B1-U0-G2	12960	101	B1-U0-G3				

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RZR SERIES - LED

PHOTOMETRIC DATA GUIDE - LUMEN TABLES (RZRM-PLED)

				122		v 70000	5120			R-M-PL		7007			7007				
LED	Drive Current	System		271	(2700	K - 70CRI)	30K	(3000K	- 70CRI)	40K	(4000K	- 70CRI)	50K	(5000K	- 70CRI)	System	1	RA (590	inm)
Count	(mA)	Watts	Туре	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	Watts	LUMENS	LPW	BUG RATIN
			11	3436	122	B1-U0-G1	3709	132	81-U0-G1	3904	138	B1-U0-G1	4100	145	B1-U0-G1		1363	68	81-U0-G1
			II-FR	3459	123	B1-U0-G1	3734	132	B1-U0-G1	3930	139	B1-U0-G1	4127	146	B1-U0-G1		1372	69	B1-U0-G0
			II-ML	3436	122	B2-U0-G2	3709	132	B2-U0-G2	3905	138	B2-U0-G2	4100	145	B2-U0-G2	1	1363	68	B1-U0-G1
			III-W	3496 3246	124	B1-U0-G1 B1-U0-G1	3775 3505	134	B1-U0-G1 B1-U0-G1	3973 3689	141	B1-U0-G1 B1-U0-G1	4172 3873	148	B1-U0-G1 B1-U0-G1	1	1387 1289	69	B1-U0-G0 B0-U0-G1
			IV	3469	123	B1-U0-G1	3746	133	B1-U0-G1	3943	140	B1-U0-G1	4140	147	B1-U0-G1	1	1377	69	B1-U0-G1
			IV-FT	3161	112	B1-U0-G1	3412	121	B1-U0-G1	3592	127	B1-U0-G1	3771	134	B1-U0-G1	1	1254	63	B0-U0-G1
24	350	28.2	VSQ-N	3627	129	B2-U0-G0	3915	139	B2-U0-G0	4121	146	B2-U0-G0	4327	153	B2-U0-G1	20.0	1439	72	B1-U0-G0
	000	20.2	VSQ-M	3556	126	B2-U0-G1	3838	136	B2-U0-G1	4041	143	B2-U0-G1	4242	150	B3-U0-G1	20.0	1410	71	B1-U0-G0
			VSQ-W	3471	123	B3-U0-G1	3748	133	B3-U0-G1	3945	140	B3-U0-G1	4142	147	B3-U0-G1	-	1377	69 50	B1-U0-G1
			II-HS II-FR-HS	2513 2556	89	B0-U0-G1 B0-U0-G0	2713 2759	96 98	B0-U0-G1 B0-U0-G0	2856 2905	101	B0-U0-G1 B0-U0-G0	2998 3050	106 108	B0-U0-G1 B0-U0-G0	-	997	51	80-U0-G0
			III-M-HS	2543	90	B0-U0-G1	2745	97	BO-U0-G1	2889	102	BO-U0-G1	3034	108	B0-U0-G1	1	1008	50	B0-U0-G0
			III-W-HS	2488	88	B0-U0-G1	2686	95	B0-U0-G1	2827	100	B0-U0-G1	2969	105	B0-U0-G1	1	987	49	80-U0-G1
			IV-HS	2626	93	80-U0-G1	2835	101	B0-U0-G1	2984	106	B0-U0-G1	3133	111	B0-U0-G1]	1042	52	80-U0-G0
			IV-FT-HS	2481	88	B0-U0-G1	2679	95	B0-U0-G1	2820	100	B0-U0-G1	2961	105	B0-U0-G1		985	49	B0-U0-G1
			II III	4908 4941	118	B1-U0-G1	5298	128	81-U0-G1	5577	134	B1-U0-G1	5856	141	82-U0-G1	-	1586	51	B1-U0-G
			II-FR II-ML	4941	119	B1-U0-G1 B2-U0-G2	5334 5299	129 128	B1-U0-G1 B2-U0-G2	5614 5578	135	B2-U0-G1 B2-U0-G2	5895 5856	142	B2-U0-G1 B3-U0-G3	1	1598 1587	52 51	B1-U0-G0
			III-M	4994	120	B1-U0-G1	5392	130	B1-U0-G1	5675	137	B1-U0-G1	5959	144	B1-U0-G2	1	1615	52	B1-U0-G
			III-W	4637	112	B1-U0-G2	5005	121	B1-U0-G2	5269	127	B1-U0-G2	5533	133	B1-U0-G2	1	1500	48	80-U0-G
			īV.	4956	119	B1-U0-G1	5350	129	B1-U0-G1	5632	136	B1-U0-G1	5913	142	B1-U0-G2		1602	52	81-U0-G
			IV-FT	4515	109	B1-U0-G2	4875	117	B1-U0-G2	5131	124	B1-U0-G2	5388	130	B1-U0-G2	1	1460	47	80-U0-G
24	525	41.5	VSQ-N	5180	125	B2-U0-G1	5592	135	82-U0-G1	5886	142	B2-U0-G1	6181	149	B2-U0-G1	31.0	1676	54	81-U0-G0
	6000		VSQ-M VSQ-W	5080 4959	122	B3-U0-G1 B3-U0-G2	5484 5353	132	83-U0-G1 83-U0-G2	5772 5635	139	B3-U0-G1 B3-U0-G2	6061 5917	146	83-U0-G1 83-U0-G2		1643	53 52	81-U0-G
			II-HS	3589	86	B0-U0-G1	3875	93	B0-U0-G1	4079	98	B0-U0-G1	4282	103	B0-U0-G1	1	1161	37	80-U0-G
			II-FR-HS	3652	88	B0-U0-G1	3942	95	B0-U0-G1	4150	100	B0-U0-G1	4357	105	B0-U0-G1	1	1181	38	80-U0-G
			III-M-HS	3631	88	B0-U0-G1	3920	94	B0-U0-G1	4127	99	B0-U0-G1	4333	104	B0-U0-G2	1	1174	38	80-U0-G0
			III-W-HS	3555	86	B0-U0-G2	3838	92	B0-U0-G2	4040	97	B0-U0-G2	4242	102	B0-U0-G2]	1150	37	80-U0-G
			IV-HS	3751	90	B0-U0-G1	4050	98	B0-U0-G1	4263	103	B0-U0-G1	4476	108	B0-U0-G1	1	1213	39	80-U0-G0
-			IV-FT-HS	3545 6275	85 112	B0-U0-G2 B2-U0-G1	3827 6774	92	B0-U0-G2 B2-U0-G2	4029 7130	97 128	B0-U0-G2 B2-U0-G2	4230 7487	102	B0-U0-G2 B2-U0-G2	-	1146	37	80-U0-G
			II-FR	6317	113	B2-U0-G1	6819	122	B2-00-G2 B2-U0-G1	7178	128	B2-00-G2 B2-U0-G1	7537	135	B2-U0-G2 B2-U0-G1	1			
			II-ML	6275	112	B3-U0-G3	6774	121	B3-U0-G3	7130	128	B3-U0-G3	7487	134	B3-U0-G3	1			
			III-M	6385	114	B2-U0-G2	6893	123	B2-U0-G2	7256	130	B2-U0-G2	7618	136	B2-U0-G2	1			
			III-W	5928	106	B1-U0-G2	6399	114	B1-U0-G2	6736	121	B1-U0-G2	7073	127	B1-U0-G2]			
			IV	6337	113	B2-U0-G2	6841	122	B2-U0-G2	7201	129	B2-U0-G2	7561	135	B2-U0-G2	1			
			IV-FT VSQ-N	5772 6624	103	B1-U0-G2 B2-U0-G1	6231 7151	111	81-U0-G2 82-U0-G1	6559 7527	117	B1-U0-G2 B2-U0-G1	6887 7903	123	B1-U0-G2 B3-U0-G1				
24	700	55.9	VSQ-M	6494	116	B3-U0-G1	7011	125	82-00-G1 83-00-G1	7380	132	B3-U0-G1	7749	139	B3-U0-G2	N/A		N/A	è
			VSQ-W	6340	113	B3-U0-G2	6844	122	B3-U0-G2	7204	129	B3-U0-G2	7565	135	B3-U0-G2	1			
			II-HS	4589	82	B1-U0-G1	4954	89	B1-U0-G2	5215	93	B1-U0-G2	5475	98	B1-U0-G2	1			
			II-FR-HS	4668	84	B0-U0-G1	5040	90	B0-U0-G1	5305	95	B0-U0-G1	5570	100	B0-U0-G1]			
			III-M-HS	4643	83	B0-U0-G2	5012	90	B0-U0-G2	5276	94	B0-U0-G2	5539	99	B0-U0-G2	1			
			III-W-HS IV-HS	4544 4796	81 86	B0-U0-G2 B0-U0-G2	4906 5177	88 93	B0-U0-G2 B0-U0-G2	5164 5450	92 97	B0-U0-G2 B0-U0-G2	5422 5722	97	B0-U0-G2 B0-U0-G2	1			
			IV-FT-HS	4532	81	B0-U0-G2	4893	88	B0-00-G2 B0-00-G2	5150	92	B0-U0-G2 B0-U0-G2	5408	97	B0-U0-G2	1			
			11	7406	109	B2-U0-G2	7995	118	B2-U0-G2	8416	124	B2-U0-G2	8837	130	B2-U0-G2				
			II-FR	7456	110	82-U0-G1	8049	119	82-U0-G1	8473	125	B2-U0-G1	8896	131	B2-U0-G1]			
			II-ML	7406	109	B3-U0-G3	7995	118	B3-U0-G3	8416	124	B3-U0-G3	8837	130	B3-U0-G3				
			III-M	7536	111	B2-U0-G2	8135	120	B2-U0-G2	8563	126	B2-U0-G2	8992	133	B2-U0-G2	-			
			III-W	6997	103	B1-U0-G2	7553 8073	111	B1-U0-G2 B2-U0-G2	7951 8408	117	B2-U0-G2 B2-U0-G2	8348	123	B2-U0-G2	-			
			IV-FT	7479 6813	110	B2-U0-G2 B1-U0-G2	8073 7355	119	B2-U0-G2 B2-U0-G2	8498 7742	125	B2-U0-G2 B2-U0-G2	8923 8129	132	B2-U0-G2 B2-U0-G2	1			
24	0.75	420	VSQ-N	7817	115	B2-U0-G1	8439	124	B3-U0-G1	8883	131	B3-U0-G1	9327	138	B3-U0-G1	1			
24	875	67.8	VSQ-M	7665	113	B3-U0-G2	8275	122	B3-U0-G2	8711	128	B3-U0-G2	9146	135	83-U0-G2	N/A		N/A	
			VSQ-W	7482	110	B3-U0-G2	8078	119	B3-U0-G2	8503	125	B4-U0-G2	8928	132	B4-U0-G2]			
			II-HS	5417	80	B1-U0-G2	5847	86	B1-U0-G2	6155	91	B1-U0-G2	6463	95	B1-U0-G2	1			
			II-FR-HS	5510 5480	81	B0-U0-G1 B0-U0-G2	5948 5916	88 87	B1-U0-G1 B0-U0-G2	6261 6227	92	B1-U0-G1 B0-U0-G2	6574 6538	97 96	B1-U0-G1 B0-U0-G2	-			
			III-W-HS	5363	79	B0-U0-G2	5790	85	B0-00-G2	6095	90	80-U0-G2	6399	94	B0-U0-G2	1			
			IV-HS	5660	83	B0-U0-G2	6110	90	B0-U0-G2	6432	95	BO-U0-G2	6753	100	B0-U0-G2	1			
			IV-FT-HS	5349	79	B0-U0-G2	5775	85	B0-U0-G2	6078	90	B0-U0-G2	6382	94	B0-U0-G2				
		1 %	П	8513	104	B2-U0-G2	9190	112	B2-U0-G2	9674	118	B2-U0-G2	10157	124	B2-U0-G2		8		
			II-FR	8570	105	B2-U0-G1	9252	113	B2-U0-G1	9739	119	B2-U0-G1	10225	125	B2-U0-G1	1			
			II-ML III-M	8513	104	B3-U0-G3	9190	112	B3-U0-G3	9674	118	B3-U0-G3	10157	124	B3-U0-G3	-			
			III-W	8662 8042	106 98	B2-U0-G2 B2-U0-G2	9351 8682	114	B2-U0-G2 B2-U0-G2	9843 9139	120	B2-U0-G2 B2-U0-G3	10335 9595	126 117	B2-U0-G2 B2-U0-G3	1			
			IV	8596	105	B2-U0-G2	9280	113	B2-U0-G2	9768	119	B2-U0-G2	10256	125	B2-U0-G2	1			
			IV-FT	7831	95	B2-U0-G2	8454	103	B2-U0-G2	8899	109	B2-U0-G3	9344	114	B2-U0-G3	1			
24	1050	82.0	VSQ-N	8985	110	B3-U0-G1	9700	118	B3-U0-G1	10210	125	B3-U0-G1	10721	131	B3-U0-G1	N/A	l	N/A	
308		32.0	VSQ-M	8811	107	B3-U0-G2	9512	116	B3-U0-G2	10012	122	B3-U0-G2	10513	128	B3-U0-G2		l	14/3	
			VSQ-W	8601	105	B4-U0-G2	9285	113	B4-U0-G2	9773	119	B4-U0-G3	10262	125	B4-U0-G3	-	l		
			II-HS ILED-HS	6226	76	B1-U0-G2 B1-U0-G1	6721 6837	82	B1-U0-G2	7075	86 88	B1-U0-G2 B1-U0-G2	7429	91	B1-U0-G2	1	l		
			III-M-HS	6333	77	B1-U0-G1 B0-U0-G2	6837 6799	83	B1-U0-G1 B0-U0-G2	7197 7158	88 87	B1-U0-G1 B0-U0-G2	7557 7515	92 92	B1-U0-G1 B1-U0-G2	1	l		
			III-W-HS	6165	75	B0-U0-G2	6655	81	B0-00-G2 B0-U0-G2	7005	85	B0-U0-G2	7356	90	B0-U0-G2	1	l		
	1		IV-HS	6506	79	B0-U0-G2	7023	86	B0-U0-G2	7393	90	B1-U0-G2	7762	95	B1-U0-G2	1	l		
			IV-FT-HS	6148	75	B0-U0-G2	6637	81	B0-U0-G2	6986	85	B1-U0-G3	7336	89	B1-U0-G3	-			

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RZR SERIES - LED

PHOTOMETRIC DATA GUIDE - LUMEN TABLES (RZR-PLED)

									R	ZR-PLE	D								
LED	Drive	System	Dist'n	27	K (2700)	K - 70CRI)	30K	(3000k	(- 70CRI)	408	(4000)	K - 70CRI)	50K	(5000K	- 70CRI)	System		TRA (59	Onm)
Count	Current (mA)	Watts	Type	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	Watts	LUMENS	LPW	BUG RATING
		8	II-FR	11277 11352	132	B2-U0-G2 B3-U0-G1	12174 12256	143	B2-U0-G2 B3-U0-G1	12814 12901	150	B2-U0-G2 B3-U0-G1	13455 13546	158 159	B2-U0-G2 B3-U0-G1		4475 4504	67	B1-U0-G1 B1-U0-G1
		100	II-ML	11277	132	B3-U0-G3	12175	143	B3-U0-G3	12815	150	B3-U0-G3	13456	158	B3-U0-G3		4475	67	B2-U0-G2
		1 8	III-M	11474	134	B2-U0-G2	12387	145	B2-U0-G2	13039	153	B2-U0-G2	13691	160	B2-U0-G2		4553	68	B1-U0-G1
		8	III-W	10654	125	B2-U0-G3	11501	135	B2-U0-G3	12106	142	B2-U0-G3	12712	149	B2-U0-G3		4228	63	B1-U0-G2
		8	IV-FT	11388	133	B2-U0-G2 B2-U0-G3	12294 11199	144	B2-U0-G2 B2-U0-G3	12941 11788	152 138	B2-U0-G2 B2-U0-G3	13588 12377	159 145	B2-U0-G2 B2-U0-G3		4518 4117	67	B1-U0-G1 B1-U0-G1
80	350	85.4	VSQ-N	11902	139	B3-U0-G1	12849	150	B3-U0-G1	13525	158	B3-U0-G1	14202	166	B3-U0-G1	67.0	4723	70	B2-U0-G1
	000		VSQ-M.	11671	137	B4-U0-G2	12600	148	84-U0-G2	13263	155	B4-U0-G2	13927	163	B4-U0-G2	07.0	4631	69	B3-U0-G1 B3-U0-G2
		Ř	VSQ-W II-HS	11392 8247	133	B4-U0-G3 B1-U0-G2	12299 8903	144	84-U0-G3 B1-U0-G2	12946 9372	152 110	B4-U0-G3 B1-U0-G2	13593 9840	159 115	B4-U0-G3 B1-U0-G2		4520 3273	67 49	80-U0-G1
		9	II-FR-HS	8389	98	B1-U0-G1	9056	106	B1-U0-G1	9533	112	B1-U0-G1	10009	117	B1-U0-G1		3329	50	80-U0-G1
		l š	III-M-HS	8344	98	B1-U0-G2	9007	105	B1-U0-G2	9482	111	B1-U0-G2	9956	117	B1-U0-G2		3311	49	80-U0-G1
		2.	III-W-HS	8167 8618	96	B1-U0-G2 B1-U0-G2	8817 9304	103	B1-U0-G2 B1-U0-G2	9281 9793	109	B1-U0-G2 B1-U0-G2	9745 10283	114	B1-U0-G3 B1-U0-G2		3240 3420	48 51	80-U0-G1 80-U0-G1
		1 8	IV-FT-HS	8144	95	B1-U0-G3	8792	103	B1-U0-G3	9255	108	B1-U0-G3	9718	114	B1-U0-G3		3232	48	80-U0-G2
			11	16239	125	B3-U0-G3	17531	135	B3-U0-G3	18454	143	B3-U0-G3	19377	150	B3-U0-G3		5251	52	81-U0-G1
		8	II-FR II-ML	16348 16240	126	B3-U0-G2 B4-U0-G4	17648 17532	136 135	83-U0-G2 B4-U0-G4	18577 18454	144	83-U0-G2 84-U0-G4	19506 19377	151	83-U0-G2 84-U0-G4		5286 5251	52 52	81-U0-G1 82-U0-G2
		- 8	III-M	16523	128	B3-U0-G3	17837	138	B3-U0-G3	18776	145	B3-U0-G3	19715	152	B3-U0-G3		5343	53	B1-U0-G2
		- 9	III-W	15341	119	B2-U0-G3	16562	128	B3-U0-G3	17433	135	B3-U0-G3	18305	141	B3-U0-G3		4961	49	81-U0-G2
		8	IV	16398	127	B3-U0-G3	17703	137	B3-U0-G3	18635	144	B3-U0-G3	19566	151	B3-U0-G3		5302	52	81-U0-G1
			IV-FT VSQ-N	14938 17140	115	B3-U0-G3 B4-U0-G2	16127 18504	125 143	B3-U0-G4 B4-U0-G2	16976 19477	131	B3-U0-G4 B4-U0-G2	17824 20451	138 158	B3-U0-G4 B4-U0-G2		4830 5542	48 55	B1-U0-G2 B2-U0-G1
80	525	129,4	VSQ-M	16807	130	B4-U0-G2	18144	140	B4-U0-G2	19099	148	B4-U0-G2	20053	155	84-U0-G2	101.0	5434	54	83-U0-G1
		- 3	VSQ-W	16406	127	B4-U0-G3	17711	137	B5-U0-G3	18643	144	B5-U0-G3	19575	151	85-U0-G3		5304	53	B3-U0-G2
		3	II-HS II-FR-HS	11877	92	B1-U0-G2 B1-U0-G2	12821 13042	99	B1-U0-G2 B1-U0-G2	13496 13728	104	B1-U0-G3 B1-U0-G2	14171	110	B1-U0-G3 B1-U0-G2		3841 3906	38	B0-U0-G1 B0-U0-G1
		0	III-M-HS	12016	93	B1-U0-G3	12971	100	B1-U0-G3	13654	106	B1-U0-G3	14337	111	B1-00-G2		3885	38	80-00-G1
			III-W-HS	11760	91	B1-U0-G3	12696	98	B1-U0-G3	13364	103	B1-U0-G3	14032	108	B1-U0-G3		3803	38	B0-U0-G2
		0	IV-HS	12411	96	B1-U0-G2	13398	104	B1-U0-G3	14103	109	B1-U0-G3	14808	114	B1-U0-G3		4013	40	B0-U0-G1
_		-	IV-FT-HS	11729 20595	91	B1-U0-G3 B3-U0-G3	12662 22232	98 128	B1-U0-G3 B3-U0-G3	13328 23403	103	B1-U0-G3 B3-U0-G3	13995 24573	108	B1-U0-G4 B3-U0-G3		3792	38	B0-U0-G2
		8	II-FIZ	20732	119	B3-U0-G2	22381	129	B3-U0-G2	23559	136	B3-U0-G2	24736	142	B3-U0-G2				
			II-ML	20595	119	B4-U0-G4	22233	128	B4-U0-G4	23403	135	B4-U0-G4	24573	142	B4-U0-G4				
		1 8	III-M	20954 19456	121	B3-U0-G3 B3-U0-G4	22621	130	B3-U0-G3	23812	137	B3-U0-G4	25003	144	B3-U0-G4				
		8	IV	20797	112	B3-U0-G3	21003 22451	121	B3-U0-G4 B3-U0-G3	22109 23633	136	B3-U0-G4 B3-U0-G3	23214 24814	143	B3-U0-G4 B3-U0-G4				
		1 8	IV-FT	18945	109	B3-U0-G4	20452	118	B3-U0-G4	21528	124	B3-U0-G4	22604	130	B3-U0-G4	ž S			
80	700	173.6	VSQ-N	21737	125	B4-U0-G2	23466	135	84-U0-G2	24701	142	B4-U0-G2	25936	149	84-U0-G2	N/A		N/A	
SOURCE	2000	1000000	VSQ-M VSQ-W	21314 20806	123	B5-U0-G3 B5-U0-G3	23010 22461	133	B5-U0-G3 B5-U0-G4	24221 23643	140 136	85-U0-G3 85-U0-G4	25432 24825	146 143	B5-U0-G3 B5-U0-G4				
		8	II-HS	15062	87	B1-U0-G3	16260	94	B1-U0-G3	17115	99	B1-U0-G3	17971	104	B1-U0-G3				
			⊪-FR-HS	15321	88	B1-U0-G2	16539	95	B1-U0-G2	17410	100	B1-U0-G2	18280	105	B1-U0-G2				
		8	III-W-HS	15238 14915	88	B1-U0-G3 B1-U0-G4	16450 16101	95 93	B1-U0-G3 B1-U0-G4	17315 16948	100	B1-U0-G3 B1-U0-G4	18181 17796	105	B1-U0-G4 B1-U0-G4				
		1 5	IV-HS	15739	91	B1-U0-G3	16991	98	B1-U0-G3	17885	103	B1-U0-G3	18780	108	B1-U0-G3				
			IV-FT-HS	14874	86	B1-U0-G4	16058	92	B1-U0-G4	16903	97	B1-U0-G4	17748	102	B1-U0-G4				
		- 1	II-FR	23798 23957	110	B3-U0-G3	25691 25862	119	B3-U0-G3 B3-U0-G2	27043 27223	125	B3-U0-G4 B3-U0-G2	28395 28585	132	B3-U0-G4 B4-U0-G2	9			
		1	II-ML	23799	110	B3-U0-G2 B4-U0-G4	25692	119	B4-U0-G4	27044	125	B4-U0-G4	28396	132	84-00-G2 84-00-G4				
			III-M	24214	112	B3-U0-G4	26140	121	B3-U0-G4	27516	127	B3-U0-G4	28892	134	83-U0-G4				
		8	III-W	22482	104	B3-U0-G4	24270	112	B3-U0-G4	25548	118	B3-U0-G4	26825	124	B3-U0-G4				
		6	IV-FT	24032 21892	101	B3-U0-G3 B3-U0-G4	25943 23634	120	83-U0-G4 83-U0-G5	27309 24877	126	B3-U0-G4 B3-U0-G5	28674 26121	133	83-U0-G4 83-U0-G5				
.00	075	0150	VSQ-N	25118	116	B4-U0-G2	27116	126	85-U0-G2	28543	132	B5-U0-G2	29970	139	B5-U0-G2	ALVA		*117	
80	875	215.9	VSQ-M	24630	114	B5-U0-G3	26589	123	85-U0-G3	27988	130	B5-U0-G3	29387	136	85-U0-G3	N/A		N/A	k:
		į,	VSQ-W	24042	111	85-U0-G4	25954	120	B5-U0-G4	27321	127	B5-U0-G4	28686	133	B5-U0-G4				
		13	II-HS II-FR-HS	17405 17704	81 82	B1-U0-G3 B1-U0-G2	18789 19112	87 89	81-U0-G3 81-U0-G2	19778 20118	92	B1-U0-G4 B1-U0-G2	20766 21124	96 98	B2-U0-G4 B1-U0-G2	ê			
			III-M-HS	17608	82	B1-U0-G4	19008	88	B1-U0-G4	20009	93	B1-U0-G4	21009	97	B1-U0-G4				
		1	III-W-HS	17234	80	B1-U0-G4	18605	86	B1-U0-G4	19584	91	B1-U0-G4	20564	95	B1-U0-G4				
		1	IV-HS IV-FT-HS	18187 17188	84	B1-U0-G3 B1-U0-G4	19634	91	B1-U0-G4 B1-U0-G4	20667	96	B1-U0-G4	21701	101 95	B1-U0-G4 B1-U0-G4				
	_		li IV-F1-F13	27354	107	B3-U0-G4	18555 29530	86 115	B4-U0-G4	19532 31084	90	B1-U0-G4 B4-U0-G4	20509 32638	127	B4-U0-G4				
			H-FR	27536	107	B3-U0-G2	29727	116	84-U0-G2	31291	122	B4-U0-G2	32856	128	B4-U0-G2				
		8	II-ML	27355	107	B4-U0-G4	29531	115	B5-U0-G5	31085	121	B5-U0-G5	32639	127	B5-U0-G5				
		8	III-W	27832 25841	109	B3-U0-G4 B3-U0-G4	30046 27897	117	B3-U0-G4 B3-U0-G4	31627 29365	123	B4-U0-G4 B3-U0-G5	33209 30834	130	B4-U0-G4 B3-U0-G5				
		- 3	IV.	27622	108	B3-U0-G4	29820	116	B3-U0-G4	31389	122	B4-U0-G4	32959	129	B4-U0-G4				
		8	IV-FT	25163	98	B3-U0-G5	27165	106	B3-U0-G5	28595	112	B3-U0-G5	30024	117	83-U0-G5				
80	1050	256.4	VSQ-N	28871	113	B5-U0-G2	31168	122	B5-U0-G2	32808	128	B5-U0-G2	34448	134	B5-U0-G2	N/A		N/A	
500000		20000000	VSQ-W	28310 27634	110	B5-U0-G3 B5-U0-G4	30561 29833	119	B5-U0-G3 B5-U0-G4	32170 31403	125	B5-U0-G4 B5-U0-G5	33779 32973	132 129	85-U0-G4 85-U0-G5	11.10200			
		- 6	II-HS	20005	78	B1-U0-G4	21596	84	B2-U0-G4	22733	89	B2-U0-G4	23870	93	B2-U0-G4				
		8	II-FR-HS	20349	79	B1-U0-G2	21968	86	B1-U0-G2	23124	90	B1-U0-G2	24280	95	B1-U0-G2				
		1	III-M-HS	20239	79	B1-U0-G4	21848	85	81-U0-G4	22998	90	B1-U0-G4	24148	94	81-U0-G4				
			_	19809	77	B1-U0-G4	21385	83	81-U0-G4	22511	88	B1-U0-G4	23636	92	B1-U0-G5		l		
		- 21	IV-HS	20905	82	B1-U0-G4	22568	88	B1-U0-G4	23756	93	B1-U0-G4	24943	97	B1-U0-G4	l .			

IES File downloads for this product can be found at www.usaltg.com/downloads/asr.html U.S. Pole Company Inc. 660 West Avenue C. Palmdale. CA 93551
An Employee Owned Company Phone (661) 233-2000 www.uscitg.com

MADE IN THE

U.S. ARCHITECTURAL

Hufft

PROJECT INFORMATION: Andy's Frozen Custard Lantana 3800 FM 407, Bartonville, TX 76226

OWNER: ANDY'S FROZEN CUSTARD

Springfield, MO 65806 www.eatandys.com

HUFFT 3612 Karnes Boulevard Kansas City, MO 64111

211 E. Water Street

ARCHITECT:

P: 816-531-0200 www.hufft.com STRUCTURAL:

METTEMEYER ENGINEERING, LLC 2225 W. Chesterfield Blvd., Suite 300 Springfield, MO 65807 P: 417-890-8002

KIMLEY-HORN 13455 Noel Road - Suite 700 TX, Dallas 75240 P: 972.770.1300

RTM ENGINEERING CONSULTANTS 3333 E. Battelfield Road, Suite 1000 Springfield, MO 65804 P: 417-881-0020

LANDSCAPE ARCHITECT: KIMLEY-HORN 13455 Noel Road - Suite 700 TX, Dallas 75240 P: 972.770.1300

CONSTRUCTION DOCUMENTS

REVISION SCHEDULE: NO. DATE ISSUE

11/6/2023

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LIGHTING CUT SHEETS



SPECIFICATION SHEET

MODEL 1188 Architectural Series • Inground & Well Lights

FIXTURE SPECIFICATIONS:

Die-cast, low copper content, A360 aluminum. Post anodized Type III (hard anodized) and powder coated for maximum corrosion protection. Captive stainless steel fasteners affixed to a ventilated door. Inner vents allow hot air to escape from around optic housing while outer vents allow cool air to enter fixture housing.

FIXTURE HOUSING:

Compression-molded, glass-reinforced polymer for strength and high UV Specular or semi-specular optics designed for maximum performance and stability. Molded with integral junction box. Unibody construction allows for uniformity. Very Narrow Spot VNS optic incorporates an internal source superior door and optic housing support. J-box comes standard with two shield to eliminate unwanted glare outside the beam pattern. 34" NPT bottom B34 tapped holes. 34" NPT front F34, 34" NPT side S34 and ¾" NPT all A34 conduit entry holes optional (Consult Factory).

OPTIC HOUSING:

Die-cast A360 aluminum. Finned for maximum heat disapation. Type III hard anodized and Thermkote treated for maximum corrosion protection. Optic and driver compartment separately sealed while being electrically DRIVER COMPARTMENT:

Injection molded PPS for maximum corrosion protection. Driver compartment houses electronic LED driver and thermostat which cuts power to fixture in abnormal ambient temperature conditions. Driver compartment is completely epoxy potted to protect electronics from

DOOR FINISH: Durable powder coat finish available in Black, Architectural Bronze, Dark Bronze, Granite, White, Architectural Brick, Light Bronze, Special Bronze, Graphite Metallic, Verde, Pewter, Mocha and Olde Finish. Custom Powder coat finishes available on request.

Cree® CXA 3050COB driven at 700mA, 800mA, or 900mA.

The CRI range is 83 - 84.

COLOR TEMPERATURE: LED's are offered in 2700°K, 3000°K, 3500°K, 4000°K, or 5000°K CCT

ANSI white 4 step Cree® East White™ bins LIGHT DISTRIBUTION:

Very Narrow Spot VNS (NEMA 2x2), Narrow Spot NS (NEMA 2x2),

Medium Flood MF (NEMA 4x4), and Wide Flood WF (NEMA 6x6). REFLECTOR:

1/2" thick tempered pressed clear glass sealed with a solid molded silicone WIRING:

3' 18/3 outdoor-rated hard usage cable standard for non-dimming ND and Phase Cut TRIAC (120V only) dimming PCT fixtures. 3' 18/5 outdoorrated hard usage cable standard for 0-10V dimming 010 fixtures. Cable exits fixture housing through a liquid tight cable fitting.

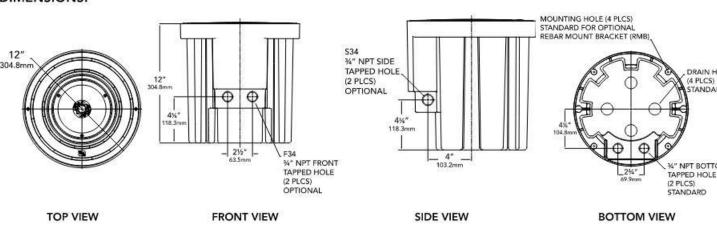
Integral CUL listed LED driver, either non-dimmable ND or dimmable. Dimming: 0-10VDC 010 and Phase Cut TRIAC (120V only) PCT options available. Multi-Volt MV 120V-277V driver input standard. TO5 - Tilt Optic 5°, TO10 - Tilt Optic 10°, TO15 - Tilt Optic 15°, TO25 -Tilt Optic 25°, DF - Diffuse Filter, LSF - Linear Spread Filter, RBK - Rebar

Bracket Kit, STR - Stainless Trim Ring, and HS - Half Glare Shield. Dichroic Lenses: YL - Yellow, RL - Red, BL - Blue, GL - Green. MOUNTING: Fixture suitable for direct burial in earth or poured concrete applications.

CERTIFICATION: C ETL US wet location listed. IP68

All Vista Architectural luminaires are MADE IN THE U.S.A.

DIMENSIONS:



Vista Professional Outdoor Lighting reserves the right to modify the design and/or construction of the fixture shown without further notification.

1625 Surveyor Avenue • Simi Valley, CA 93063 • (805) 527-0987 • (800) 766-VISTA (8478)



MODEL 1188 Architectural Series • Inground & Well Lights

LAMP SPECIFICATIONS

- High lumen output LED powered for high efficacy Cree® CXA 3050 COB driven at 700mA, 800mA, or 900mA.
- 2700°K, 3000°K, 3500°K, 4000°K, or 5000°K CCT ANSI white 4 step Cree® Easy White™ bins.
- 1150- 3248 Delivered Lumens
- 25-35 Watts OPTICS/AIMING:
- Specular or semi-specular optics designed for maximum performance
- Very Narrow Spot VNS (NEMA 2x2), Narrow Spot NS (NEMA 2x2),
- Medium Flood MF (NEMA 4x4), and Wide Flood WF (NEMA 6x6). Fixture aiming achieved via a series of tilt optic lenses and patent

pending magnetic aiming system. FIXTURE ORDERING INFORMATION

TO ORDER FIXTURE: Select appropriate choice from each column as in the following example.

EXAMPLE: 1188-GG-NS-30-A-MV-CX-ND-E34-TO5

MODEL	DOOR FINISH	DISTRIBUTION	COLOR TEMPERATURE	DELIVERED LUMENS
1188	Standard	VNS - Very Narrow Spot	27 - 2700°K	A - 1500-2000
	B - Black		ow Spot 30 - 3000°K dium Flood 35 - 3500°K	B- 2000- 2500
	Z - Architectural Bronze			C - 2500-3000
	DZ - Dark Bronze			4707
	(GT - Granite)			1188-VNS not available wit
	W - White			B & C lumen packages.
	Premium			
	BR - Architectural Brick	1		
	LZ - Light Bronze		1	
	SB - Special Bronze		1	
	GG - Glossy Gray			
	R - Rust			
	HG - Hunter Green		1	
	WB - Weathered Bronze			
	WI - Weathered Iron			
	GM - Graphite Metallic			
	Hand Finished			
	G - Verde			
	P - Pewter		1	
	M - Mocha		1	
	OF - Olde Finish			

Constant current 700mA, 800mA, or 900mA output driver.

fixtures and Phase Cut TRIAC PCT dimming fixtures.

3' 18/3 outdoor-rated hard usage cable standard for non-dimming

• 3' 18/5 outdoor-rated hard usage cable standard for 0-10V dimming

Peak compressive force of 8,000 lbs. This represents 95% of max

load to load failure on average. Independent tests performed by SGS

US Testing Company, Inc., an ISO 17025 accredited National Testing

Multi-Volt MV 120V-277V universal input.

1188 SERIES-LOAD RATING:

Laboratory.

VOLTAGE	LENS	DIMMING	CONDUIT ENTRIES	ACCESSORIES	
MV - Multi-Volt (120V-277V)	CX - Crowned Clear AX - Anti Slip Clear	ND - No Dimming 010 - 0-10V PCT - Phase Cut TRIAC	B34 - Bottom ¾ " (standard)	TO5 - Tilt Optic 5° TO10 - Tilt Optic 10° TO15 - Tilt Optic 15°	RBK - Rebar Bracket Kit STR - Stainless Trim Ring HS - Half Glare Shield
		(120V only)	F34 - Front ¾" S34 - Sides ¾" A34 - All ¾" (available as an option) (Consult Factory)	TO25 - Tilt Optic 25° DF - Diffuse Filter LSF - Linear Spread Filter	YL - Yellow Lens RL - Red Lens BL - Blue Lens GL - Green Lens *Colored Lenses not available with B & C Lumen packages.

Vista Professional Outdoor Lighting reserves the right to modify the design and/or construction of the fixture shown without further notification.

1625 Surveyor Avenue • Simi Valley, CA 93063 • (805) 527-0987 • (800) 766-VISTA (8478) FAX: (888) 670-VISTA (8478) • email@vistapro.com • www.vistapro.co



SPECIFICATION SHEET

MODEL 1188 Architectural Series • Inground & Well Lights

LUMEN OUTPUT PACKAGES Watte

Beam Spread	Α	В	С
VNS	34.9 Watts 1698.9 Lumens		
NS	31.5 Watts 2180 Lumens	35.9 Watts 2488 Lumens	36.7 Watts 2796 Lumens
MF	30.7 Watts 2120 Lumens	35.0 Watts 2418 Lumens	35.8 Watts 2718 Lumens
WF	32.4 Watts 2532 Lumens	37.0 Watts 2891 Lumens	37.8 Watts 3248 Lumens

Vista Professional Outdoor Lighting reserves the right to modify the design and/or construction of the fixture shown without further notification.

1625 Surveyor Avenue • Simi Valley, CA 93063 • (805) 527-0987 • (800) 766-VISTA (8478)

1188 3.20.20



PROJECT INFORMATION: Andy's Frozen Custard Lantana 3800 FM 407, Bartonville, TX 76226

ANDY'S FROZEN CUSTARD 211 E. Water Street

www.eatandys.com ARCHITECT:

HUFFT 3612 Karnes Boulevard

Springfield, MO 65806

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KIMLEY-HORN

13455 Noel Road - Suite 700 TX, Dallas 75240 P: 972.770.1300

RTM ENGINEERING CONSULTANTS 3333 E. Battelfield Road, Suite 1000 Springfield, MO 65804 P: 417-881-0020

LANDSCAPE ARCHITECT: KIMLEY-HORN 13455 Noel Road - Suite 700 TX, Dallas 75240 P: 972.770.1300

CONSTRUCTION DOCUMENTS 11/6/2023

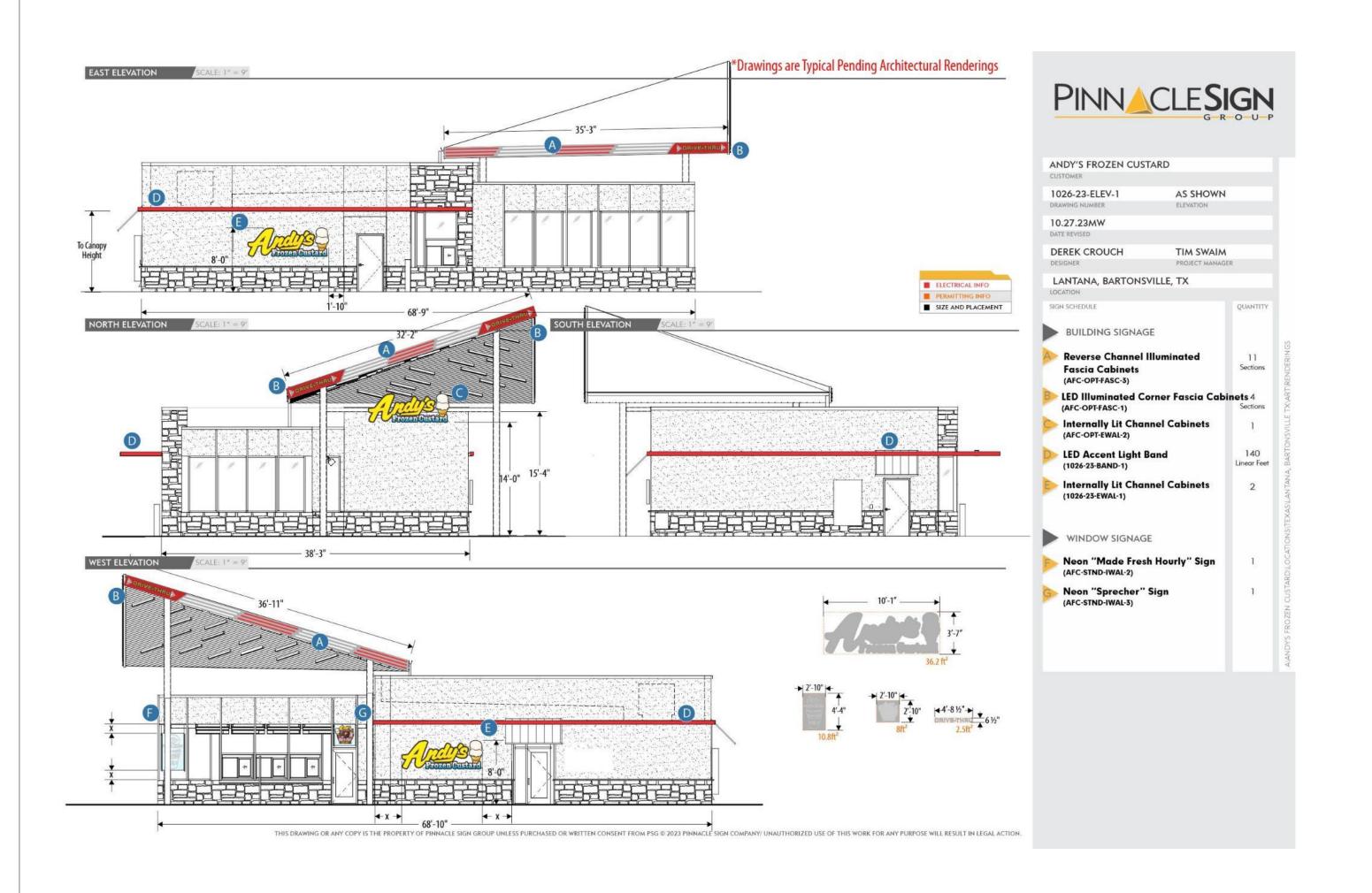
> REVISION SCHEDULE: NO. DATE

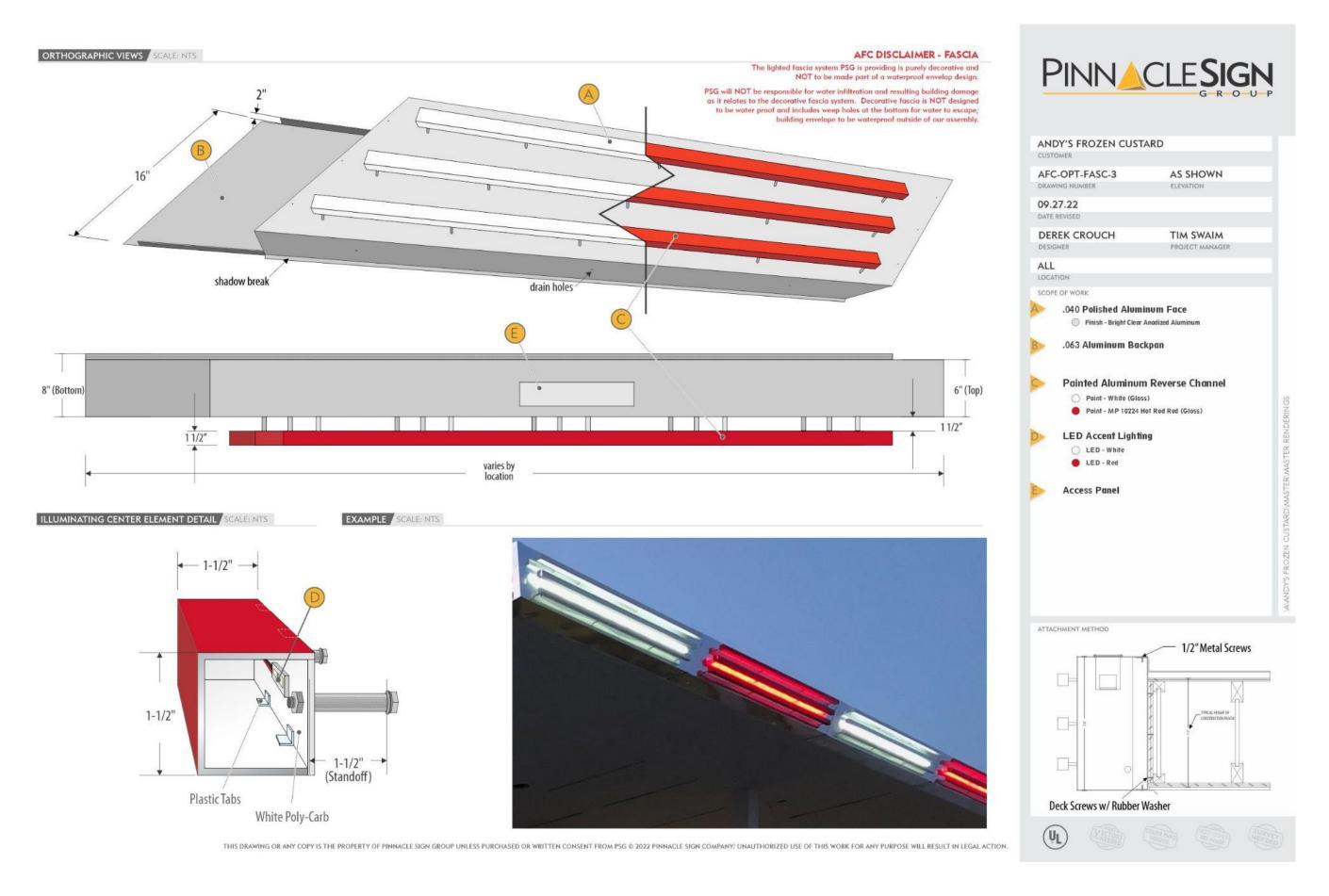
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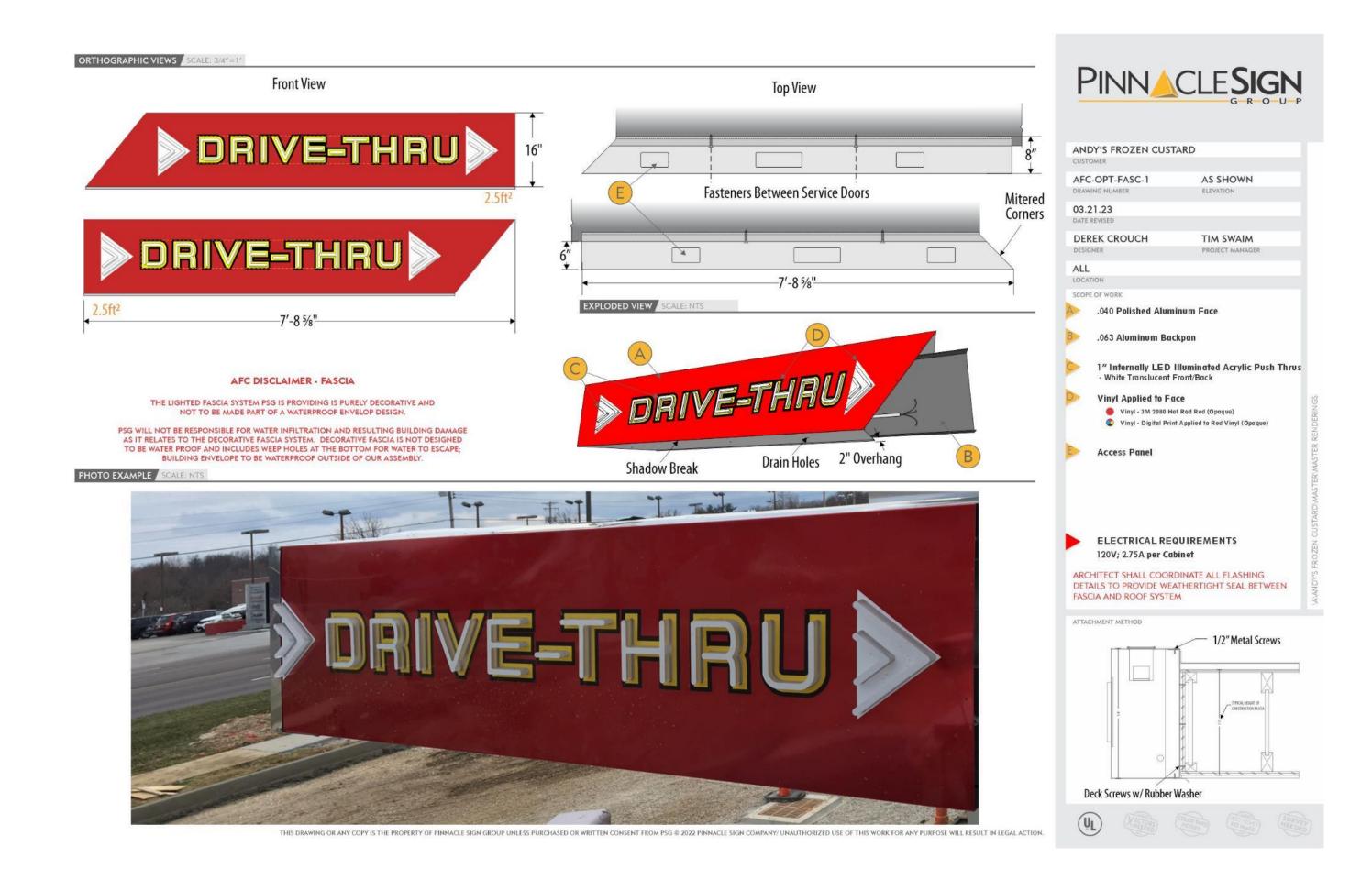
THIS DRAWING MAY BE PART of an integrated set of Construction Documents, including the Contract, the Conditions and the Specifications. The Contract Documents are complementary: what is required by one is as binding as if required by all. Application of a material or equipmen item to Work installed by others constitutes acceptance of that Work. Calculate and measure dimensions - DO NOT SCALE DRAWINGS unless directed by the Architect to do so. Dimensions indicated are to the face of a material,

License Number: xxx Drawn By: MS Project Number: 717

LIGHTING CUT SHEETS









Hufft PROJECT INFORMATION: **Andy's Frozen Custard** Lantana 3800 FM 407, Bartonville, TX 76226 OWNER: ANDY'S FROZEN CUSTARD 211 E. Water Street Springfield, MO 65806 www.eatandys.com ARCHITECT: HUFFT 3612 Karnes Boulevard Kansas City, MO 64111 P: 816-531-0200 www.hufft.com STRUCTURAL: METTEMEYER ENGINEERING, LLC 2225 W. Chesterfield Blvd., Suite 300 Springfield, MO 65807 P: 417-890-8002 KIMLEY-HORN 13455 Noel Road - Suite 700 TX, Dallas 75240 P: 972.770.1300 RTM ENGINEERING CONSULTANTS 3333 E. Battelfield Road, Suite 1000 Springfield, MO 65804 P: 417-881-0020 LANDSCAPE ARCHITECT: KIMLEY-HORN 13455 Noel Road - Suite 700 TX, Dallas 75240 P: 972.770.1300

CONSTRUCTION DOCUMENTS
11/6/2023

REVISION SCHEDULE:

NO. DATE ISSUE

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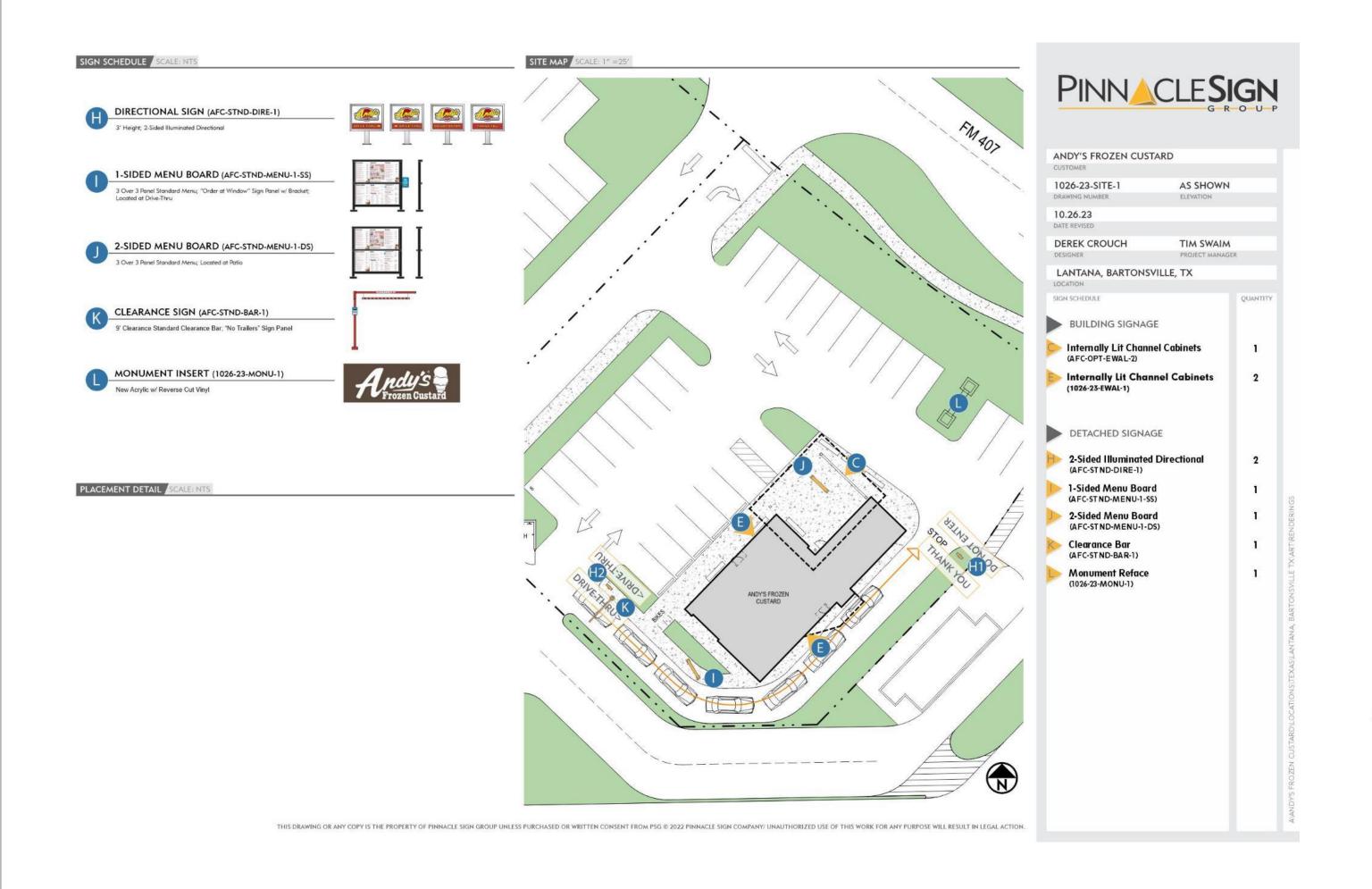
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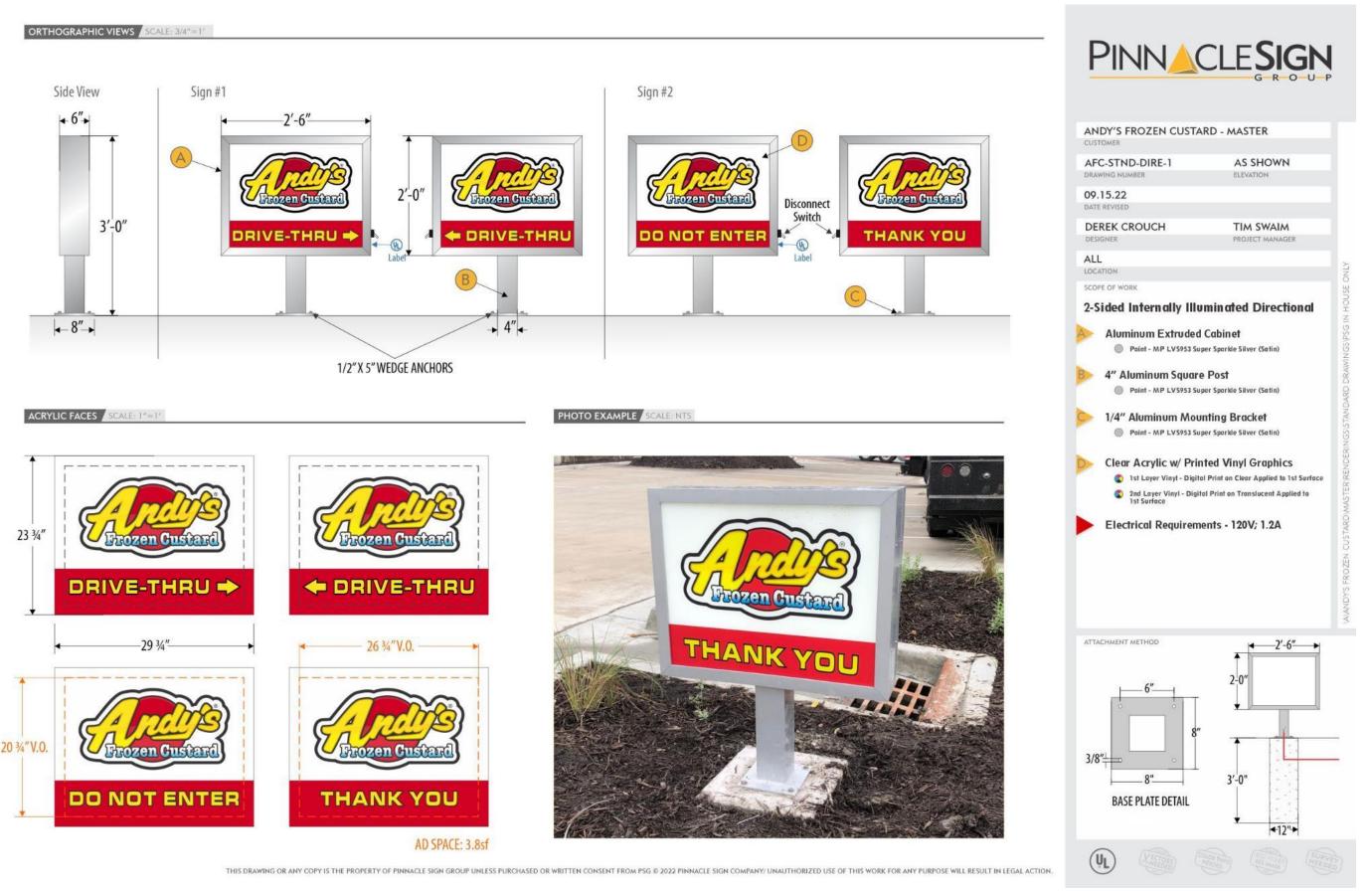
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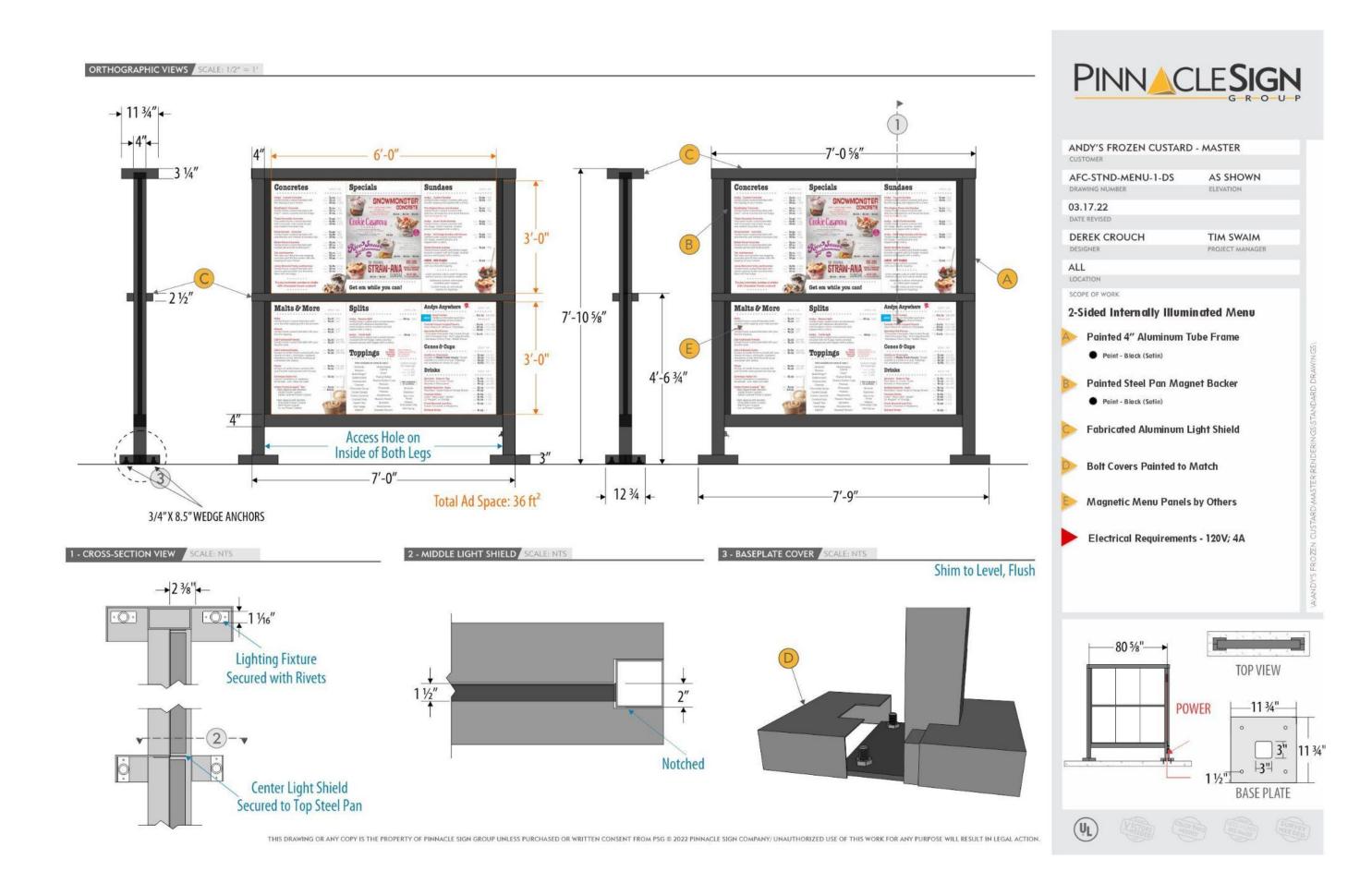
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Drawn By: MS
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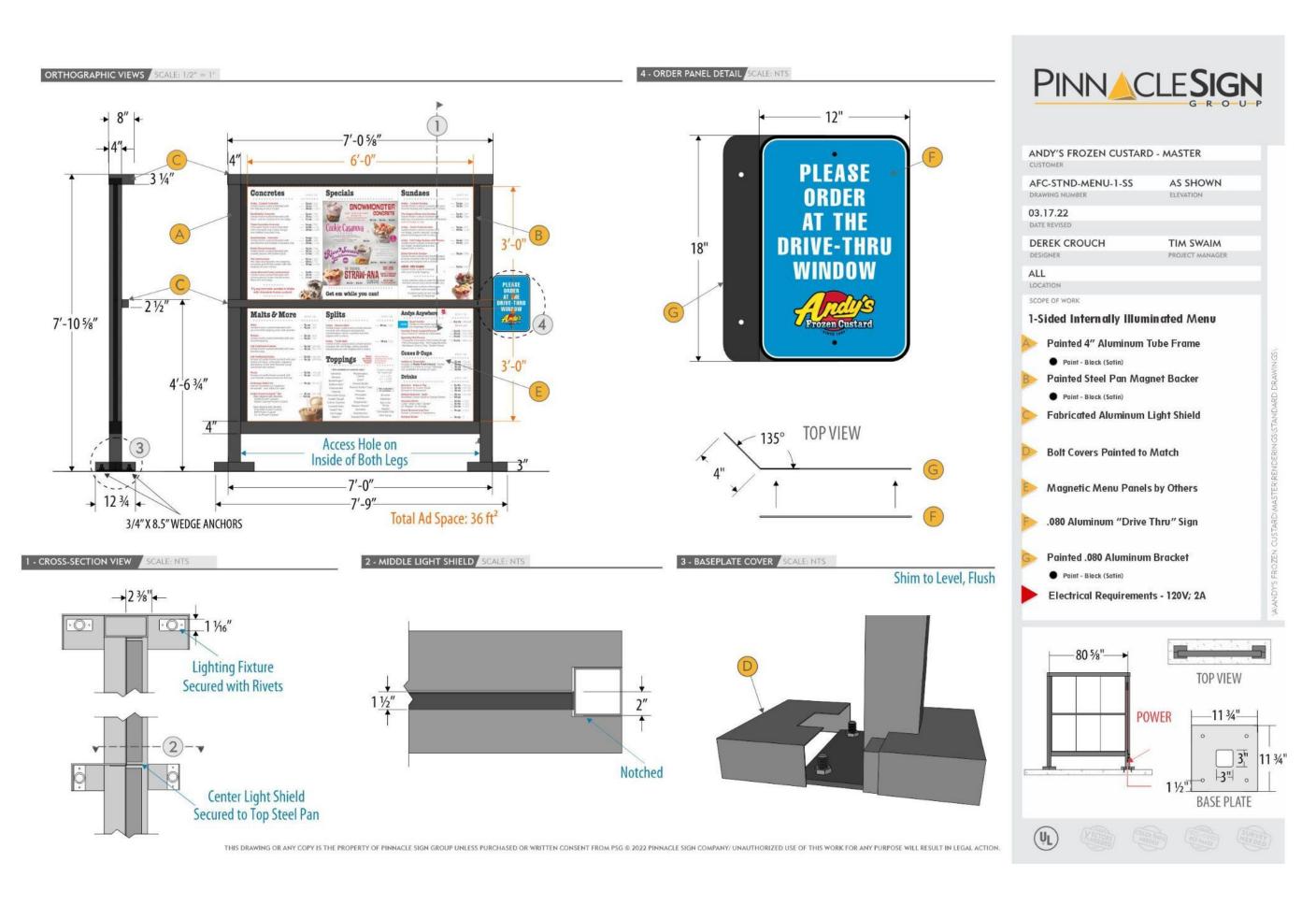
BUILDING SIGNAGE

A501

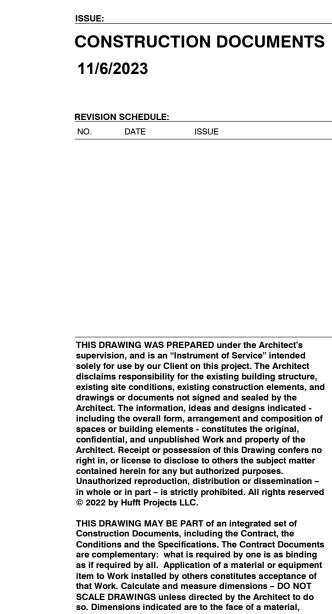




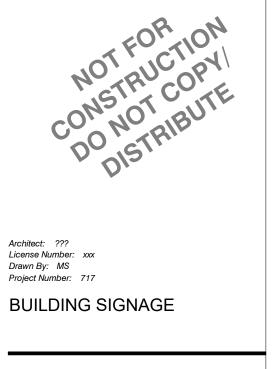




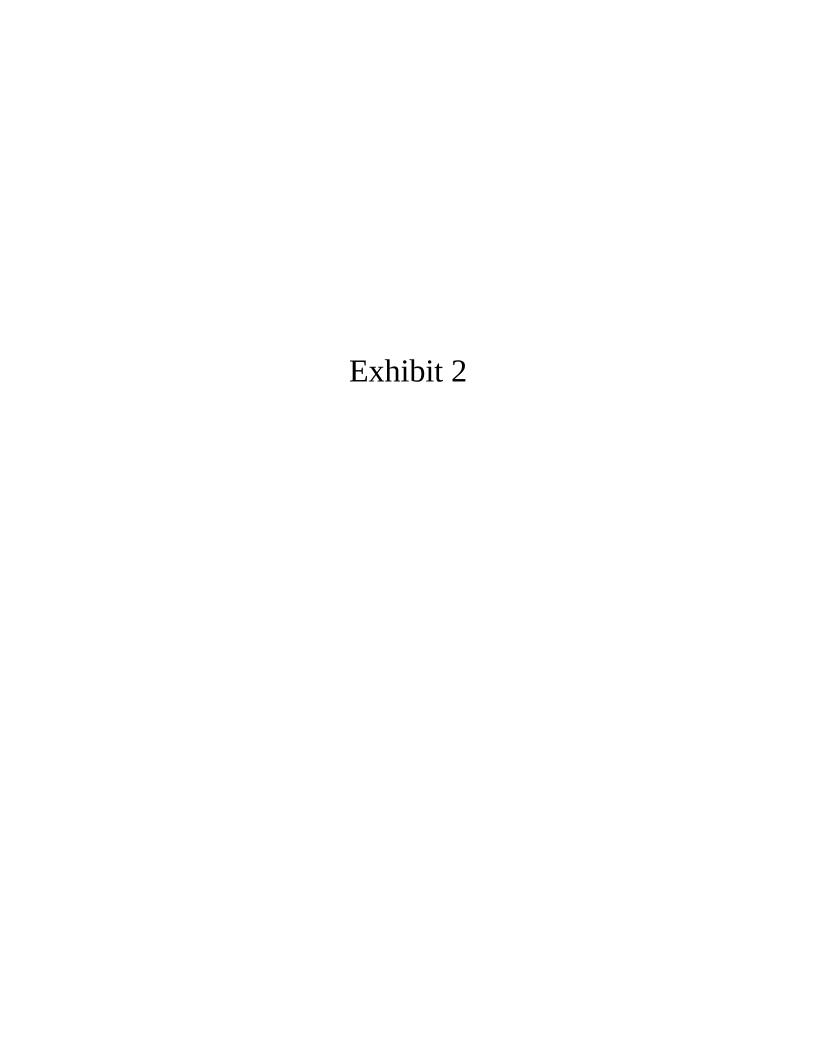
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unless noted otherwise.



A502





December 20, 2023

[NAME] [ADDRESS] [CITY], [STATE] [ZIP]

Re: Proposed Conditional Use Permit and Site Plan for Andy's Frozen Custard

Dear [NAME],

The Planning and Zoning Commission for the Town of Bartonville, Texas will conduct a public hearing at 7:00pm on January 3, 2024, at Bartonville Town Hall, 1941 E. Jeter Road, Bartonville, Texas, to hear public comment and consider recommendations to the Town Council regarding an Ordinance amending the Town of Bartonville Code of Ordinances, Chapter 14, Exhibit "A," Article 14.02, Ordinance 361-05, Zoning Regulations for the Town of Bartonville, to establish a Conditional Use Permit for a restaurant with drive-through on a 1.34-acre tract or parcel of land situated in Lot 3, Block A, of DCFWSD #7 Retail Center Addition, in the Town of Bartonville, Denton County, Texas. The subject property is located west of the intersection of Justin Road and E Jeter Road, in Bartonville, Texas. The applicant is Jennifer Gansert of Kimley-Horn and Associates, Inc. The Town of Bartonville file number for this application is CUP-2023-006;

and a Resolution approving a Site Plan for the same property described above, containing a restaurant with a drive-through and other site appurtenances. The Town of Bartonville file number for this application is SP-2023-003.

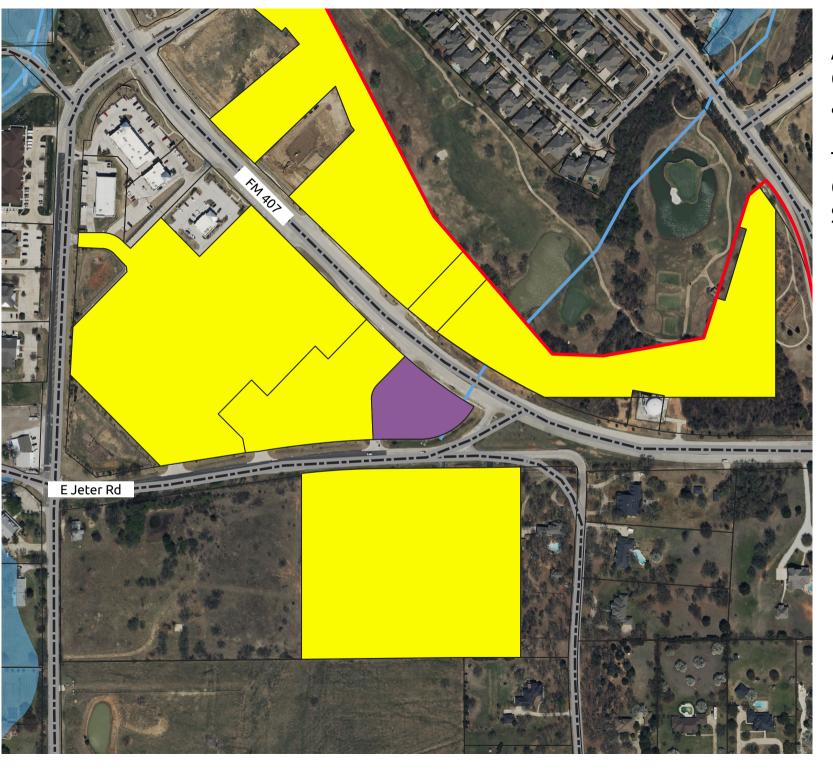
The Town Council will conduct a second Public Hearing at 6:30pm on January 16, 2024, at Bartonville Town Hall, 1941 E. Jeter Road, Bartonville, Texas, to hear public comment and consider the proposed Conditional Use Permit and Site Plan, and recommendations of the Planning and Zoning Commission. All interested parties are encouraged to attend.

Sincerely,

Thad Chambers, CPM
Town Administrator
Town of Bartonville

enclosure

NAME	NAME 2	ADDRESS	CITY	STATE	ZIP
FIRST CHURCH NAZARENE		2200 E JETER RD	BARTONVILLE	TX	76226-8439
KROGER TEXAS LP	C/O REAL ESTATE DEPARTMENT	751 FREEPORT PKWY	COPPELL	TX	75019-4411
A-S 114 LANTANA TOWN CENTER LP		8827 W SAM HOUSTON PKWY N STE 200	HOUSTON	TX	77040-5383
DENTON COUNTY FRESH WATER SUPPLY DIST NO 7	C/O CLAY E CRAWFORD	19 BRIAR HOLLOW LN STE 245	HOUSTON	TX	77027-2858
A-S 114 LANTANA TC PHASE 2 LP		8827 W SAM HOUSTON PKWY N STE 200	HOUSTON	TX	77040-5383



Andy's Frozen Custard Conditional Use Permit and Site Plan

Town File # CUP-2023-006, SP-2023-003



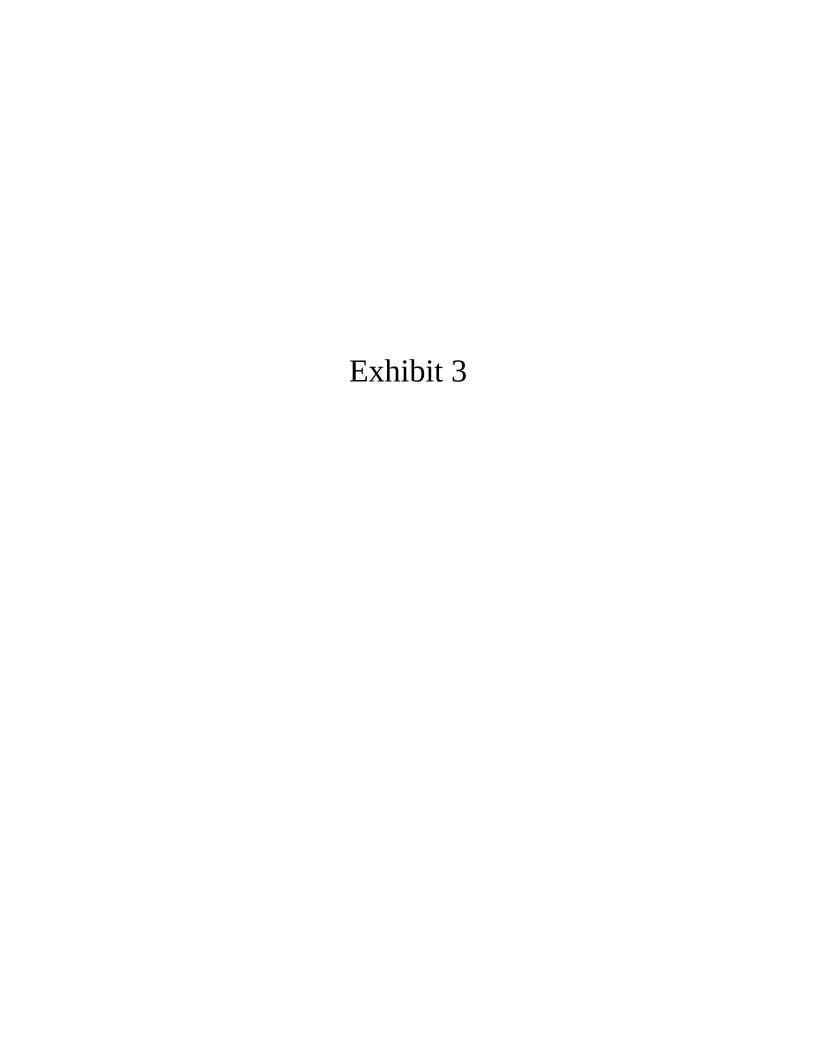




- Bartonville Town Limits
- Floodplain
- Creeks



0 250 500 ft





Denton Record-Chronicle 3555 Duchess Drive (940) 387-7755

I, Ayesha Carletta M Cochran-Worthen, of lawful age, being duly sworn upon oath depose and say that I am an agent of Column Software, PBC, duly appointed and authorized agent of the Publisher of Denton Record-Chronicle, a publication that is a "legal newspaper" as that phrase is defined for the city of Denton, for the County of Denton, in the state of Texas, that this affidavit is Page 1 of 1 with the full text of the sworn-to notice set forth on the pages that follow, and that the attachment hereto contains the correct copy of what was published in said legal newspaper in consecutive issues on the following dates:

PUBLICATION DATES:

Dec. 23, 2023

Notice ID: VjizkH7QQviOcgRHKVPm

Notice Name: 12232023 Andy's CUP & SP Newspaper Notice

PUBLICATION FEE: \$61.76

I declare under penalty of perjury that the foregoing is true and correct.

Ayesha Carletta M Cochran-Worthen

Agent

SHANNEA H HOLMES NOTARY PUBLIC STATE OF NEW JERSEY My Commission Expires August 1, 2026

VERIFICATION

State of New Jersey County of Hudson

Yanea S. Holmer

Signed or attested before me on this: 12/27/2023

Notary Public

This notarial act involved the use of communication technology

IOWN OF BARTONVILLE NOTICE OF PUBLIC HEARING

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drc 12/23/2023