

FILE NAME: A:\4600s\4620\1003\LA\CA\DD\Sheets\L-PLAN-COVR-46201.dwg DATE: March 13, 2024, TIME: 4:07 PM, USER: ah4412 AVO: XXXXX

CONSTRUCTION PLANS
FOR
COMMUNITY CENTER PARK EXPANSION

100% BID SET

430 ALISTER ST N
PORT ARANSAS, TX 78373
FEBRUARY 2024

ENGINEER

HALFF ASSOCIATES, INC.
711 N CARANCAHUA ST STE 1190
CORPUS CHRISTI, TX 78401
CONTACT: THOMAS EVERETT
EMAIL: TEVERETT@HALFF.COM
TEL: (361) 400-0982
TBPE FIRM# F-312

ELECTRICAL ENGINEER

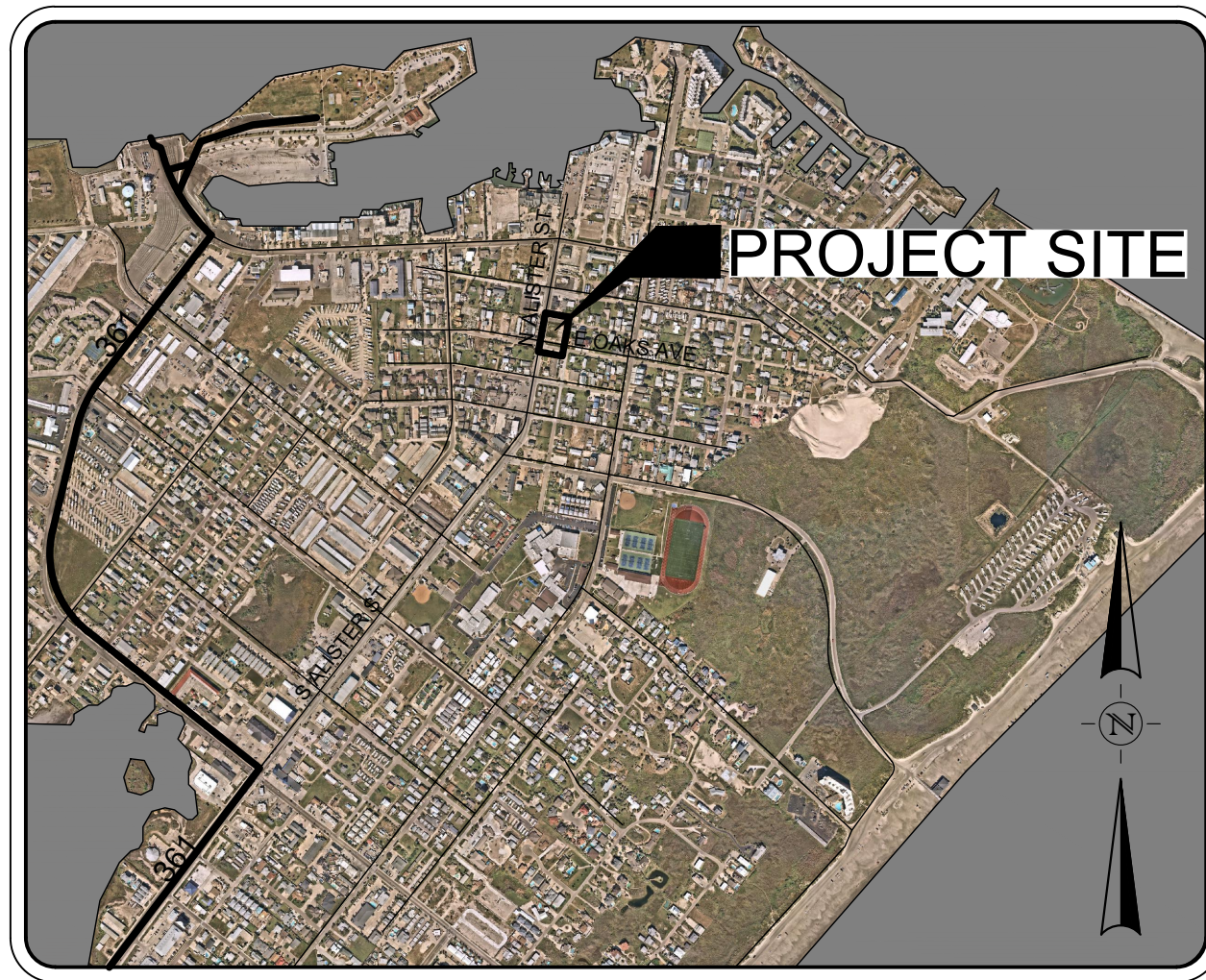
YAGGI ENGINEERING, INC
5840 W. I-20, SUITE 270
ARLINGTON, TX 76017
CONTACT: CHRISTOPHER CREDICOTT
EMAIL: CCREDICOTT@YAGGIENGINEERING.COM
TEL: (817) 483-2373

LANDSCAPE ARCHITECT

HALFF ASSOCIATES, INC.
2601 MEACHAM BLVD
FORT WORTH, TX 76137
CONTACT: LAYNE OLIVO
EMAIL: LOLIVO@HALFF.COM
TEL: (817) 764-7434

SURVEYOR

HALFF ASSOCIATES, INC.
100 NE LOOP 410, STE 200
SAN ANTONIO, TX 78216
CONTACT: JAMES RUSSELL
EMAIL: JRUSSELL@HALFF.COM
TEL: (830) 455-6210



LOCATION MAP

NOT TO SCALE

SURVEYED DATE:

6/21/23

BENCHMARK(S):

CP/BM	NORTHING	EASTING	ELEVATION	TYPE
100	17195317.89	1449450.46	5.05'	SET ½" IRON ROD
101	17195347.81	1449233.12	4.52'	SET "X" MARK ON CONCRETE
102	17195595.42	1449321.35	4.56'	SET "X" MARK ON CONCRETE

CSG:UNITED STATES/STATE PLANE 1983 ZONE:TEXAS SOUTH 4205 GRD:NAD83(2011)

LEGAL DESCRIPTION:

- ALLISTER JOE SUR NO 5-P A LTS 7,8,& 9 BLK 3

PROPERTY LOCATION:

- ADDRESS: 430 ALISTER ST N PORT ARANSAS, TX 78373
- NEIGHBORHOOD: ALLISTER JOE SUR & 5 - P A

ZONING:

- COMMERCIAL

LAND USE SUMMARY:

- Community Center Park Expansion

OWNER/CLIENT:



106 CUT OFF RD
PORT ARANSAS, TX 78373
TEL. (361) 749-4158 FAX (000) 000-0000
www.portaransas.org

PREPARED BY:



711 N CARANCAHUA ST., SUITE 1190
CORPUS CHRISTI, TEXAS 78401
TEL: (361) 400-4600
www.halff.com

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2024-03-13



Know what's below.
Call before you dig.

THE INFORMATION SHOWN ON THESE DRAWINGS INDICATING SIZE, TYPE AND LOCATION OF UNDERGROUND, SURFACE, AND AERIAL UTILITIES IS NOT GUARANTEED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT THE PORT ARANSAS AREA "ONE CALL" SYSTEM AT 1-800-344-8377 (DIG TESS) 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION FOR EXISTING UTILITY LOCATIONS. THE CONTRACTOR SHALL ALSO BE FULLY RESPONSIBLE FOR FIELD VERIFYING LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES AFFECTED BY CONSTRUCTION FOR THIS PROJECT IN ORDER TO AVOID DAMAGING THOSE UTILITIES, AND SHALL IMMEDIATELY ARRANGE FOR REPAIR AND RESTORATION OF CONTRACTOR- DAMAGED UTILITIES TO THE UTILITY COMPANY'S APPROVAL AT THE EXPENSE OF THE CONTRACTOR.

FILE NAME: A:\46000s\46201\004\LD\CAD\Drawings\C-PLAN-GNTS-46201.004.dwg DATE: March 8, 2024, TIME: 6:24 PM, USER: ah4863, AVO: 46201.004

GENERAL NOTES (CIVIL)

1. SCOPE OF WORK

A. COMMUNITY CENTER PARK EXPANSION (430 N. ALISTER ROAD) IS A PARK ENHANCEMENT PROJECT FOR THE CITY OF PORT ARANSAS, TX. THE BASE BID PROJECT OBJECTIVE IS TO ADD ADDITIONAL GREENSPACE, A PARKING LOT, SHADE STRUCTURES, ACCESSIBLE WALKWAYS, SITE LIGHTING, AND AN ELEVATED BOARDWALK.

2. SOILS

A. THE CONTRACTOR SHALL REVIEW THE GEOTECHNICAL ENGINEERING REPORT ISSUED BY TERRACON CONSULTANTS, INC. (PROJECT CD235016) ON AUGUST 30, 2023 TO HALFF ASSOCIATES INC. THIS REPORT IS INCLUDED AS AN APPENDIX IN THE CONTRACT DOCUMENTS

B. EXCAVATED SOILS THAT ARE RE-USED SHALL MEET THE REQUIREMENTS OUTLINED IN THE GEOTECHNICAL ENGINEERING REPORT. SPOILS WILL BE HAULED OFF-SITE AND DISPOSED.

3. TECHNICAL SPECIFICATIONS

A. THE CONTRACTOR SHALL REVIEW THE TECHNICAL SPECIFICATIONS INCLUDED IN THE CONTRACT DOCUMENTS.

B. CONTRACTOR TO NOTIFY ENGINEER IF ANY TECHNICAL SPECIFICATION DISCREPANCIES ARE DISCOVERED DURING CONSTRUCTION.

4. PARKING LOT AND STREET

A. WHERE EXISTING ASPHALT AND CONCRETE ARE TO BE CUT, THESE CUTS SHALL BE VERTICAL AND MADE WITH A SAW.

B. CONCRETE NOTES:

B.A. ALL CONCRETE WORK TO BE FORMED, UNLESS OTHERWISE APPROVED.

B.B. ALL CONCRETE TO BE 4000-PSI MINIMUM AT 28 DAYS, UNLESS OTHERWISE SHOWN.

B.C. STRENGTH TO BE DETERMINED BY CYLINDER BREAK TEST.

B.D. ALL REINFORCING STEEL TO BE ASTM A-615, GRADE 60, UNLESS OTHERWISE SHOWN.

B.E. SAWED JOINTS SHALL BE SAWCUT AS SOON AS THE CONCRETE IS STRONG ENOUGH TO SUPPORT THE SAWING EQUIPMENT AND TO PREVENT AGGREGATE RAVELING DURING THE SAWING OPERATION. ALL JOINTS SHOULD BE SAW CUT WITHIN 12 HOURS OF THE CONCRETE'S PLACEMENT.

C. ALL CURB RADII SHALL BE AS SHOWN ON THE PLANS.

D. STREET (PAVEMENT) REPAIR, INCLUDING CONCRETE CURB AND GUTTER, SHALL BE AS SHOWN ON THE PLANS.

5. SIDEWALK & DRIVEWAYS

A. SIDEWALK SHALL BE ROUTED, GRADED, AND BUILT PER PLAN. IF CONFLICTS ARISE IN THE FIELD THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

B. CONCRETE SHALL BE SAW CUT WHERE AN EXISTING CONCRETE STRUCTURE IS TO BE PARTIALLY REMOVED.

4. STORM WATER & UTILITIES

A. ALL ABANDONED PIPES (OLD WATERLINES, DITCH CULVERTS, SHALLOW UTILITY SERVICES) WITHIN THE LIMITS OF EXCAVATION SHALL BE REMOVED AND PROPERLY DISPOSED OF. THIS GENERALLY APPLIES TO ALL ABANDONED PIPES THAT ARE WITHIN A FOOT OF THE PROPOSED SUBGRADE IMPROVEMENTS OR IMPACTS THE PROPOSED WORK. ANY ABANDONED LINE TO REMAIN IN PLACE SHALL BE CAPPED AT THE END(S) AND GROUT FILLED.

B. ALL STORM WATER PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) CLASS IV, RING TIGHT JOINT.

C. CONCRETE SHALL BE SAW CUT WHERE AN EXISTING CONCRETE STRUCTURE IS TO BE PARTIALLY REMOVED

D. IF APPLICABLE ELEVATION ADJUSTMENTS FOR MANHOLES AND VALVES SHALL BE DONE FOR NO SEPARATE PAY.

E. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT EXISTING UTILITIES. ALL PIPES AND UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED TO THE CITY'S SATISFACTION, WITH NO SEPARATE PAY.

F. TRENCH BACKFILL FOR STORM WATER PIPE SHALL BE AS SHOWN ON PLANS.

G. NO TRENCH SHALL BE LEFT OPEN AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED FOR THE DAY.

H. IF APPLICABLE, WHEN PLACING PROPOSED UTILITY LINES UNDER EXISTING CONCRETE CURB & GUTTER, SIDEWALK, OR DRIVEWAY THAT ARE NOT SCHEDULED FOR REPLACEMENT, THE PROPOSED UTILITY SHALL BE PLACED BY BORING OR JACKING UNDER SAID CONCRETE STRUCTURES. IF BORING IS UNPRACTICAL, THE CONTRACTOR SHALL REMOVE AND REPLACE EXISTING CONCRETE WITH LIKE OR BETTER, IF AUTHORIZED BY THE ENGINEER. THIS SHALL BE CONSIDERED SUBSIDIARY WORK.

I. THE TYPE, SIZE AND LOCATION OF ALL UNDERGROUND UTILITIES DEPICTED ON THE CONSTRUCTION PLANS WERE RESEARCHED WITH RESPECT TO THE BEST AVAILABLE DATA AND THEREFORE SHOWN APPROXIMATE. ALTHOUGH EVERY EFFORT HAS BEEN MADE TO ACCURATELY DEPICT ALL UTILITIES, NOT ALL (PUBLIC AND PRIVATE) MAY BE SHOWN. NEITHER THE ENGINEER NOR THE OWNER IS RESPONSIBLE FOR THE ACCURACY OF THE LOCATION OF THE UTILITIES SHOWN ON THE CONSTRUCTION PLANS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL UTILITY COMPANIES WITH JURISDICTION WITHIN THE LIMITS OF CONSTRUCTION FOR FIELD VERIFICATION AT NO ADDITIONAL EXPENSE TO THE OWNER. UTILITY COMPANIES TO INCLUDE BUT NOT LIMITED TO THE FOLLOWING:

I.A. CITY OF PORT ARANSAS PARKS & RECREATION (361) 749-4158

I.B. CITY OF PORT ARANSAS GAS (361) 749-6330

I.C. CITY OF PORT ARANSAS PUBLIC WORKS (361) 749-5125

I.D. CITY (HALL) OF PORT ARANSAS (361) 749-4111

I.E. NUECES COUNTY WATER CONTROL & IMPROVEMENTS DISTRICT #4 OFFICE (361) 749-5201

I.F. UNITED STATES POSTAL SERVICE (361) 749-5590

I.G. TEXAS 811

I.H. CHARTER COMMUNICATIONS/ SPECTRUM (361) 739-2756

I.I. AMERICAN ELECTRIC AND POWER (AEP) TEXAS (361) 758-6427

4. WASTEWATER LINES

A. NO WASTEWATER IMPROVEMENTS ARE PROPOSED FOR THIS PROJECT.

5. WATERLINES

A. NO DOMESTIC WATER IMPROVEMENTS ARE PROPOSED FOR THIS PROJECT.

B. WATER METERS SHALL BE ACCESSIBLE DURING CONSTRUCTION.

6. ENVIRONMENTAL

A. THE CONTRACTOR SHALL ACQUIRE THE NECESSARY TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) PERMITS, INCLUDING FEES, FOR TCEQ GENERAL PERMIT NO. TXR 150000 RELATING TO STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES PRIOR TO BEGINNING WORK. THESE ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO NOTICE OF INTENT (NOI), REQUIRED SITE POSTINGS, AND NOTICE OF TERMINATION (NOT). ALL ACTIVITIES WILL BE PERFORMED AT THE MILESTONES REQUIRED BY THE TCEQ. NO SEPARATE PAYMENT WILL BE MADE FOR SUCH PERMITS.

7. TRAFFIC STRIPING AND SIGNAGE

A. ANTI-GRAFFITI COATING ON FRONT OF THE SIGN PLAQUE IS APPLICABLE TO ALL SIGNS EXCEPT FOR STREET NAME BLADES.

B. REPLACEMENT OF SIGNS SHALL MEET TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), LATEST EDITION, AND TXDOT STANDARDS.

C. DETAILS FOR SIGNAGE SHALL MEET STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD), LATEST EDITION.

8. SAFETY

A. THESE PLANS, PREPARED BY HALFF ASSOCIATES, INC., DO NOT EXTEND TO OR INCLUDE DESIGN OF SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF HALFF ASSOCIATES, INC., REGISTERED PROFESSIONAL ENGINEER(S) HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS, INCLUDING THE PLANS AND SPECIFICATIONS REQUIRED BY THE HOUSE BILLS 662 AND 665 ENACTED BY THE TEXAS LEGISLATURE IN THE 70TH LEGISLATURE REGULAR SESSION.

9. TEMPORARY TRAFFIC CONTROL

A. THE CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC CONTROL (TTC) DEVICES IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), LATEST EDITION, FOR THE SCOPE OF WORK IDENTIFIED.

B. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER (CITY) ON THE TEMPORARY TRAFFIC CONTROL PLAN PRIOR TO IMPLEMENTAION.

C. THE CONTRACTOR SHALL MAINTAIN TEMPORARY TRAFFIC CONTROL (TTC) DEVICES THROUGHOUT CONSTRUCTION AND SHALL REMOVE ALL TTC DEVICES AFTER CONSTRUCTION IS COMPLETE.

10. LANDSCAPE AND IRRIGATION

A. CONTRACTOR TO REFER TO LANDSCAPE AND IRRIGATION PLANS FOR RESPECTIVE GENERAL NOTES.

B. IF APPLICABLE EXISTING SPRINKLER SYSTEMS SHALL BE PROTECTED. ANY NECESSARY REPAIRS SHALL BE TO THE SATISFACTION OF THE SPRINKLER SYSTEM OWNER AND SHALL BE COMPLETED PRIOR TO THE ACCEPTANCE OF THE PROJECT. CONTRACTOR SHALL NOTIFY THE OWNER OF THE SPRINKLER SYSTEM IMMEDIATELY IF AND WHEN DAMAGES OCCUR.

C. REGARDING SPRINKLER SYSTEMS, IF APPLICABLE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS TO CUT OFF IRRIGATION.

LEGEND:

	EXISTING WASTEWATER MANHOLE		EXISTING TELEPHONE PEDESTAL / GROUND BOX
	EXISTING STORM WATER MANHOLE / CURB INLET		EXISTING LIGHT POLE
	EXISTING GRATE INLET		EXISTING UTILITY POLE
	EXISTING FIRE HYDRANT		EXISTING GUY WIRE
	EXISTING GAS VALVE		EXISTING SIGN
	EXISTING WATER VAVLE		EXISTING MAILBOX
	EXISTING WATER METER		EXISTING CLEAN OUT
	EXISTING ELECTRIC METER		EXISTING BOLLARD
	EXISTING GAS METER		EXISTING FLAG POLE
	EXISTING SPOT ELEVATION (FT)		PROPOSED GRATE INLET
	CONTROL POINT		PROPOSED PRECAST S.E.T.
	ASPHALT REMOVAL		PROPOSED PARKING LOT / CURB & GUTTER / USPS PAD
	CONCRETE REMOVAL		PROPOSED SIDEWALK
	CURB & GUTTER REMOVAL		PROPOSED PAVEMENT REPAIR
	DRAINAGE DITCH REGRADE		PROPOSED VEGETATION AREA
	PROPOSED BOARDWALK		PROPOSED LANDSCAPE STRUCTURE
	PROPOSED STORM LINE		
	EXISTING STORM LINE		
	EXISTING OVERHEAD ELECTRICAL LINE		
	EXISTING GAS LINE		
	EXISTING WATER LINE		
	EXISTING WASTE WATER LINE		
	RELOCATED UNDERGROUND COMMUNICATION LINE BY CHARTER		
	LINE ABANDONMENT BY OTHERS		
	HYDRAULIC GRADE LINE (HGL)		
	EXISTING EASEMENT		
	EXISTING MAJOR CONTOUR AND ELEVATION (FT)		
	EXISTING MINOR CONTOUR AND ELEVATION (FT)		
	PROPOSED MAJOR CONTOUR AND ELEVATION (FT)		
	PROPOSED MINOR CONTOUR AND ELEVATION (FT)		
	DRAINAGE FLOW DIRECTION		
	EXISTING DRAINAGE BASIN		
	PROPOSED DRAINAGE BASIN		
	PROPOSED RE-GRADED DITCH FLOWLINE		
	PROPOSED SURFACE BREAKLINE		
	PROPOSED DITCH PROTECTION (EROSION CONTROL LOG DAM)		
	LIMITS OF CONSTRUCTION		
	SILT FENCE		
	PROJECT LIMITS		
	PROPERTY LINE		
	PROJECT BASELINE		
	EXISTING GUTTER SPOT ELEVATION (FT)		PROPOSED FINISHED GROUND ELEVATION (FT)
	EXISTING TOP OF SIDEWALK SPOT ELEVATION (FT)		PROPOSED GUTTER SPOT ELEVATION (FT)
	MATCH EXISTING TOP OF SIDEWALK SPOT ELEVATION (FT)		PROPOSED TOP OF PAVEMENT ELEVATION (FT)
	MATCH EXISTING GUTTER SPOT ELEVATION (FT)		PROPOSED TOP OF SIDEWALK ELEVATION (FT)
	PROPOSED TOP OF BOARDWALK (FT)		PROPOSED TOP OF CURB (FT)
	PROPOSED TOP OF LANDSCAPE STRUCTURE (FT)		
	PROPOSED INLET PROTECTION (EROSION CONTROL LOGS)		
	UTILITY CAUTION		

CALL BEFORE YOU DIG!

Know what's below. Call before you dig.

PARTICIPANTS REQUEST
48 HOURS NOTICE BEFORE YOU DIG,
DRILL, OR BLAST – STOP AND CALL

811

THE LONE STAR
NOTIFICATION COMPANY
AT 1-800-669-8344

SPECIAL NOTES:

DIGITAL OR ELECTRONIC REPRESENTATION OF THESE CONSTRUCTION PLANS DOES NOT CONSTITUTE A COORDINATE CONTROL MAP OR MATHEMATICALLY CONTROLLED INFORMATION FOR THE USE OF CONSTRUCTION STAKEOUT. IT IS RESPONSIBILITY OF THE CONTRACTOR AND/OR CONTRACTORS SURVEYOR TO ENSURE THAT ANY DIGITAL OR ELECTRONIC REPRESENTATION OF THESE PLANS IS IN COMPLETE CONFORMANCE WITH ALL OF THE NOTATIONS, SPECIFICATIONS, DETAILS, AND OTHER DATA APPEARING ON OR AS MAY BE DERIVED FROM THESE CONSTRUCTION PLANS.

TDLR PROJECT NUMBER:

TABS2024007901

TEXAS DEPARTMENT OF LICENSING & REGULATION REGISTRATION NUMBER

RAS INSPECTION REQUIRED AT COMPLETION OF CONSTRUCTION

COMMUNITY CENTER
PARK EXPANSION
PARKS AND RECREATION
DEPARTMENT
PORT ARANSAS, TX

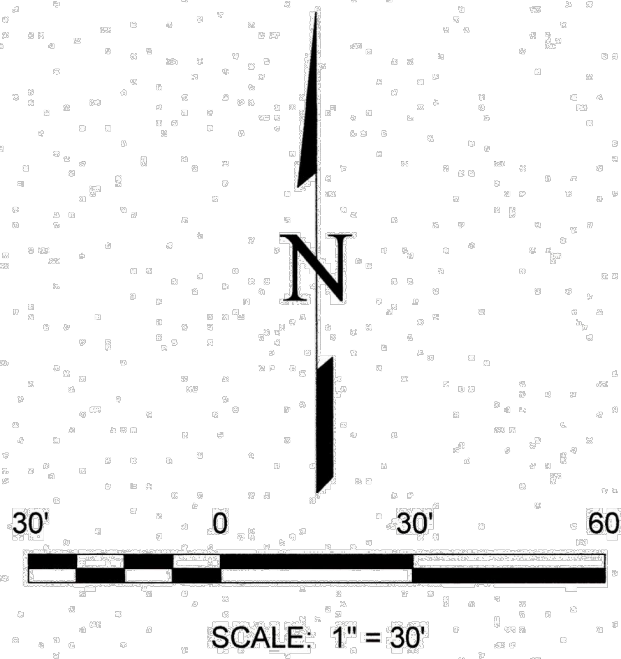
711 N CARACACHUA ST., SUITE 1190
PORT ARANSAS, TEXAS 78401-0599
TEL (361) 400-4600
TBPELS FIRM #4-312

REVISION	NO.	DATE	DESCRIPTION

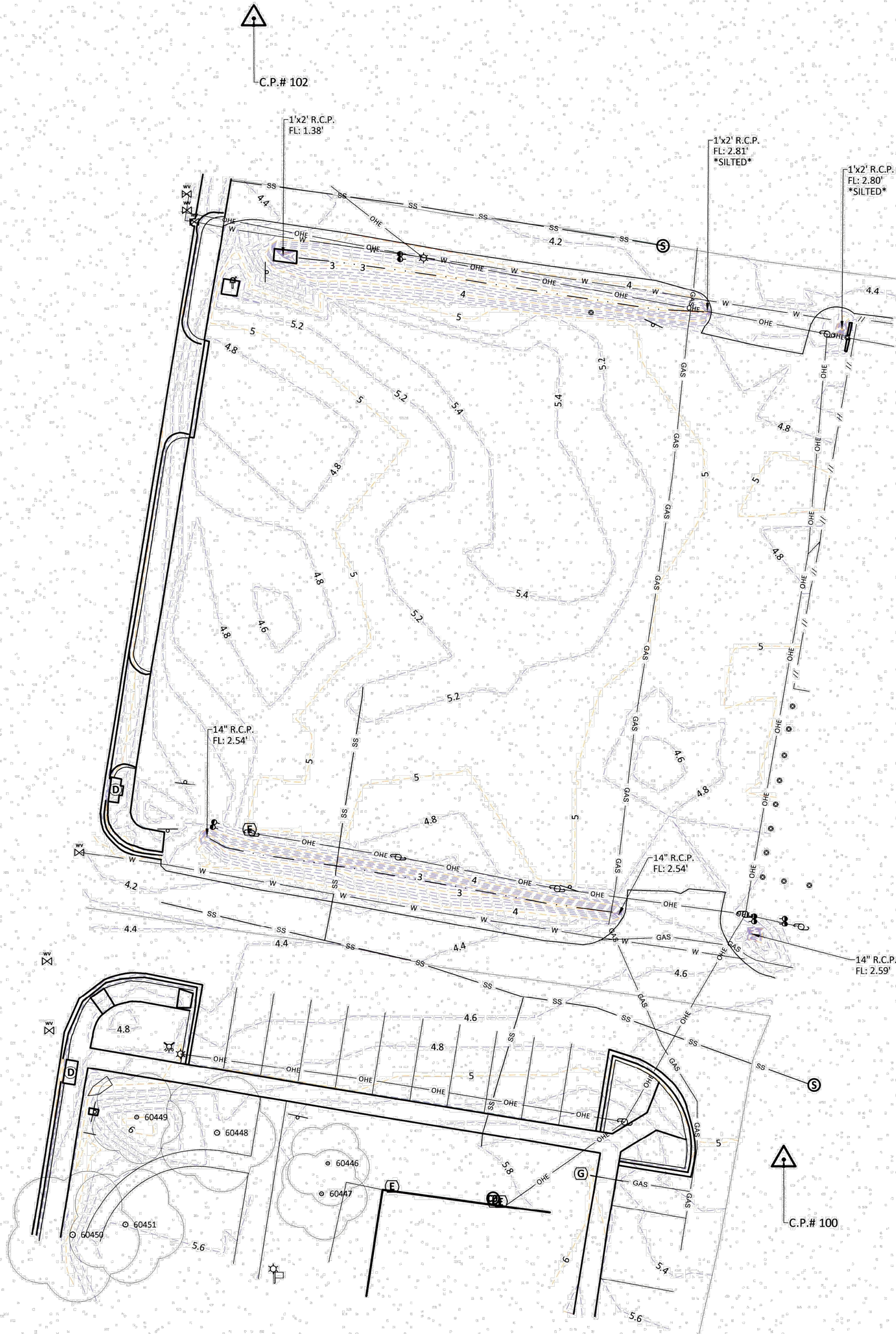
100%
BID SET

PROJECT NO.:	46201.004
ISSUED:	AS SHOWN
DRAWN BY:	AR & RB
CHECKED BY:	TE
SCALE:	NTS
SHEET TITLE	GENERAL NOTES AND LEGEND

C1.0



TREE LIST	
TAG NO.	TYPE & SIZE
60446	PALM 10"
60447	PALM 11"
60448	PALM 14"
60449	PALM 11"
60450	PALM 16"
60451	PALM 14"



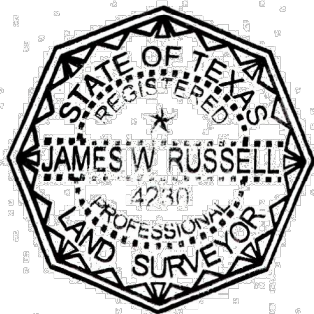
CONTROL POINTS				
POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	17195317.89	1449450.46	5.05'	CP IR4
101	17195347.81	1449233.12	4.52'	CP SX
102	17195595.42	1449321.35	4.56'	CP SX

NOTES:

- THIS DRAWING, THE ASSOCIATED DATA AND CONTROL POINTS ARE REFERENCED TO THE TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (4205), NAD 83 (2011) HORIZONTAL, NAVD 88 (GEOID 18) VERTICAL, ALL DISTANCES SHOWN HEREON ARE GRID DISTANCES.
- SETBACKS OR EASEMENTS PER RESTRICTIONS OR ZONING MAY EXIST.
- THE FIELD WORK WAS COMPLETED ON JUNE 22, 2023.
- THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT OR COMMITMENT.

SURVEYOR'S CERTIFICATION:

I, JAMES W. RUSSELL, A REGISTERED PROFESSIONAL LAND SURVEYOR, DO HEREBY CERTIFY THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE, INFORMATION, BELIEF AND THAT THIS SURVEY SUBSTANTIALLY COMPLIES WITH THE CURRENT TEXAS SOCIETY OF PROFESSIONAL SURVEYORS STANDARDS AND SPECIFICATIONS FOR A CATEGORY 6, CONDITION 2, TOPOGRAPHIC SURVEY.

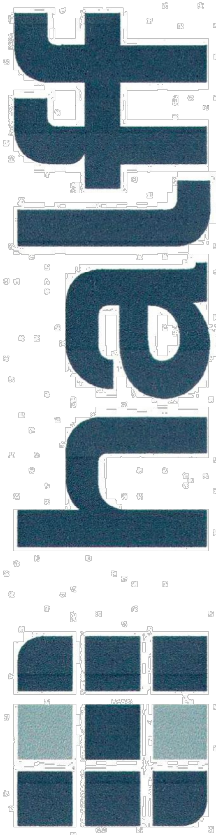


JAMES W. RUSSELL
REGISTERED PROFESSIONAL LAND SURVEYOR
TEXAS NO. 4230
T.B.P.E.L.S. NO. 10194444

DATE

7/22/23

TSPS CATEGORY 6, CONDITION 2
TOPOGRAPHIC SURVEY
SHOWING A PORTION OF
COMMUNITY CENETER AND MUSEUM
CITY OF PORT ARANSAS
NUECES COUNTY, TEXAS



5000 WEST MILITARY, SUITE 100
MCALLEN, TX 78503-7446
TEL (956) 684-0286
TBPCLS SURVEYING FIRM #10194444

REVISION NO.	DATE	DESCRIPTION

PROJECT NO: 42064.007

ISSUED: 9/22/2023

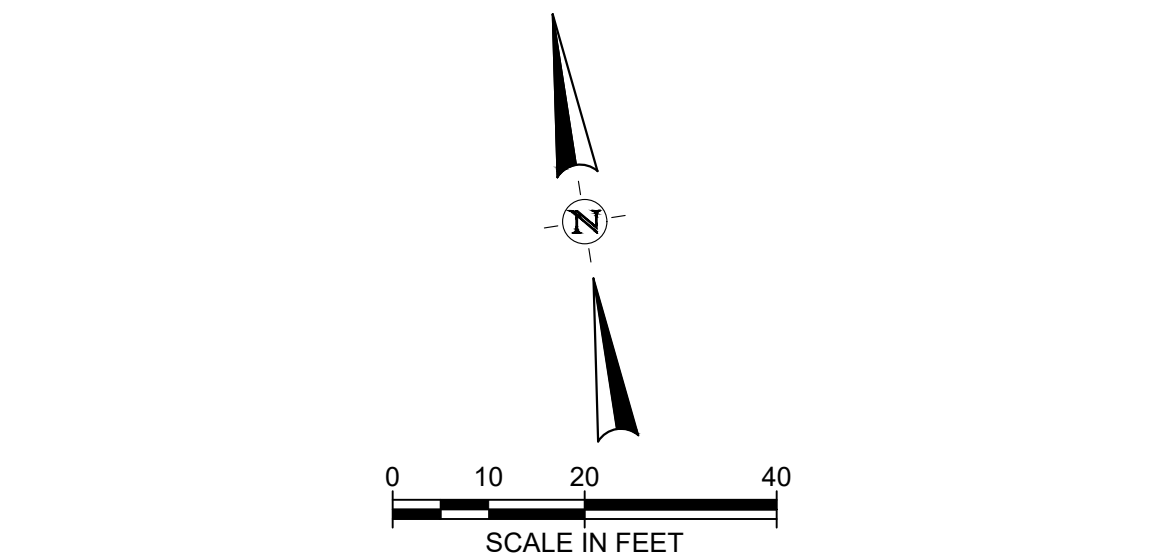
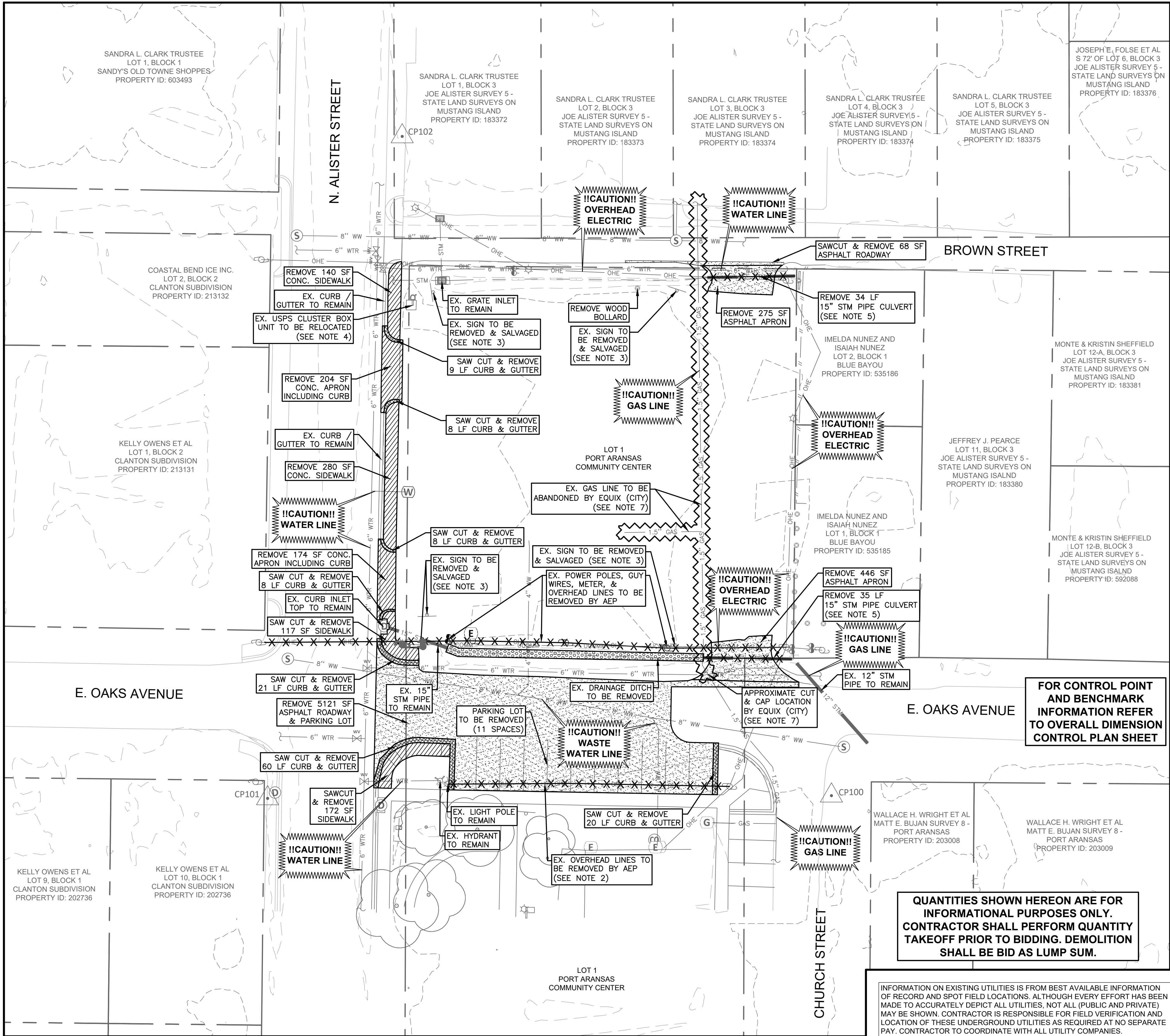
DRAWN BY: B.D.B.

CHECKED BY: B.D.B.

SHEET TITLE:
TOPOGRAPHIC
SURVEY

C2.0

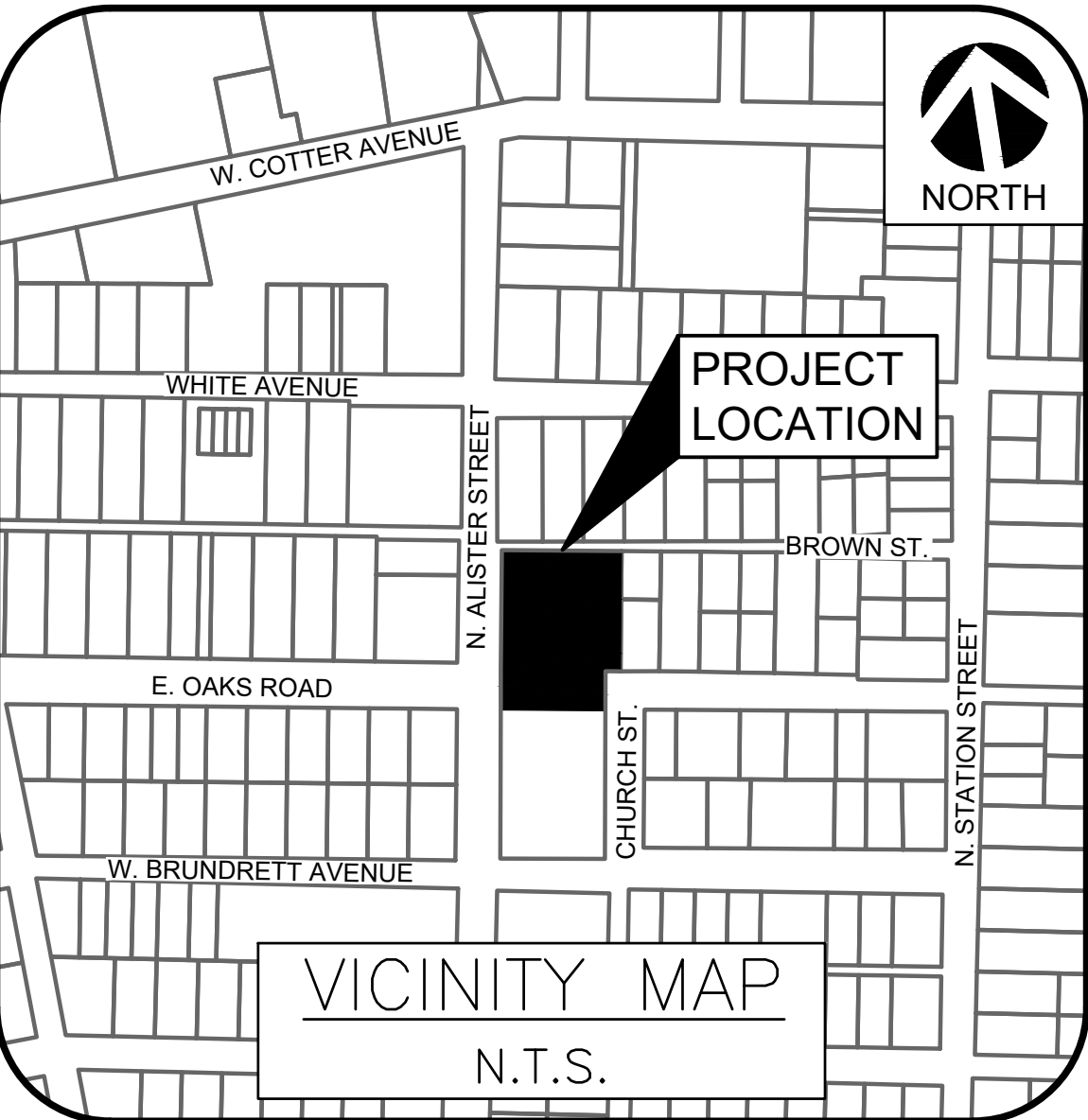
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LEGEND:

	ASPHALT REMOVAL
	CONCRETE REMOVAL
	CURB & GUTTER REMOVAL
	DRAINAGE DITCH REMOVAL
	LINE REMOVAL
	LINE ABANDONMENT BY OTHERS
	UNDERGROUND UTILITY

- NOTES:**
- ALL DEMOLITION ITEMS INCLUDE REMOVAL AND HAUL-OFF/DISPOSAL. THIS DOES NOT INCLUDE SALVAGE ITEMS.
 - CONTRACTOR SHALL COORDINATE WITH AEP REGARDING ANY CONFLICTS WITH EXISTING POWER POLES, GUY WIRES, OR OVERHEAD LINES.
 - CONTRACTOR TO COORDINATE ALL SALVAGE ITEMS WITH CITY.
 - THE USPS CLUSTER BOX UNIT (CBU) SHALL BE REMOVED BY USPS. AFTER CBU HAS BEEN REMOVED BY USPS THE CONTRACTOR SHALL DEMOLISH AND REMOVE THE EXISTING CONCRETE PAD. CONTRACTOR SHALL PROVIDE MINIMUM TWO (2) WEEK ADVANCE NOTICE TO USPS PRIOR TO CONCRETE PAD DEMOLITION. CONTRACTOR SHALL COORDINATE WITH USPS ON WHEN NEW CONCRETE PAD WILL BE READY FOR CBU INSTALL.
 - DURING STORM WATER DEMOLITION ACTIVITIES, THE CONTRACTOR SHALL NOT BLOCK OR PROHIBIT STORMWATER SYSTEM DRAINAGE PRIOR TO A FORECASTED RAINFALL EVENT.
 - EXISTING ITEMS TO REMAIN IN PLACE (INCLUDING BUT NOT LIMITED TO FIRE HYDRANTS, CONCRETE CURB AND GUTTER, AND CURB INLET TOPS), SHALL NOT BE DISTURBED DURING CONSTRUCTION ACTIVITIES. ANY DAMAGE TO EXISTING ITEMS TO REMAIN CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE FULLY REPAIRED TO EQUAL OR BETTER CONDITION WITH NO SEPARATE PAY.
 - CONTRACTOR SHALL COORDINATE WITH EQUIX AND CITY REGARDING ANY CONFLICTS WITH EXISTING GAS LINES.



**COMMUNITY CENTER
PARK EXPANSION
PARKS AND RECREATION
DEPARTMENT
PORT ARANSAS, TX**

half
711 N CARACACHUA ST., SUITE 1190
PORT ARANSAS, TEXAS 78413-5599
TEL: (361) 404-4600
TBP&LS FIRM #A-312

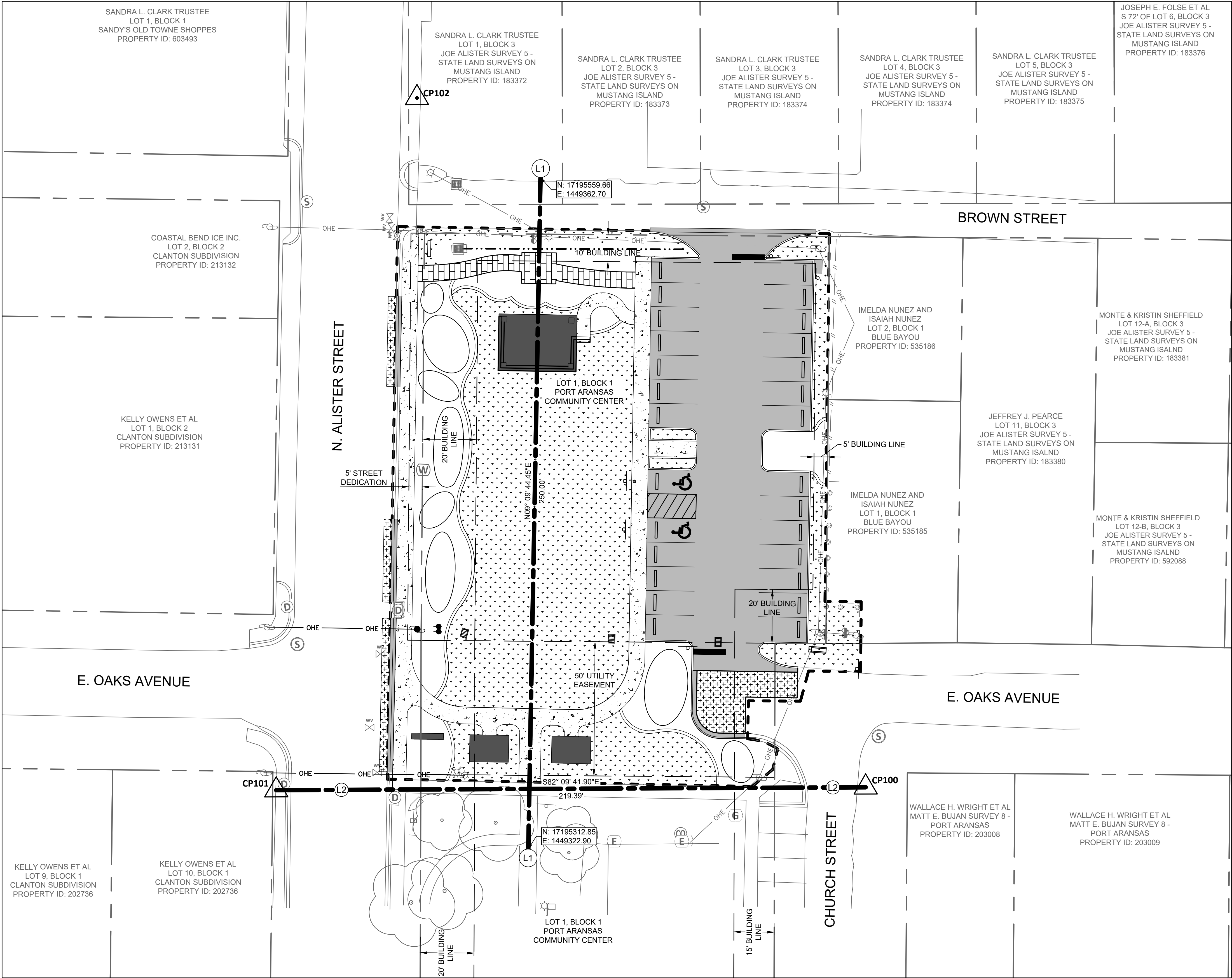
REVISION NO.	DATE	DESCRIPTION

**100%
BID SET**

PROJECT NO.: 46201.004
ISSUED: AS SHOWN
DRAWN BY: AR & RB
CHECKED BY: TE
SCALE: 1" = 20'
SHEET TITLE
DEMOLITION PLAN

C3.0

FILE NAME: A:\46000\46201\004\LD\CD\ADD\Sheets\C-PLAN-SITE-46201_004.dwg DATE: March 8, 2024, TIME: 6:24 PM, USER: ah4853 AVO: 46201_004



CONTROL POINTS AND BENCHMARKS:

(ALL COORDINATES SHOWN ARE GRID COORDINATES)

CP/BM	NORTHING	EASTING	ELEVATION	TYPE
100	17195317.89	1449450.46	5.05'	SET 1/2" IRON ROD
101	17195347.81	1449233.12	4.52'	SET 'X' MARK ON SIDEWALK
102	17195595.42	1449321.35	4.56'	SET 'X' MARK ON SIDEWALK

CONTROL POINT NOTES:

- THIS DRAWING, THE ASSOCIATED DATA AND CONTROL POINTS ARE REFERENCED TO THE TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (4205), NAD 83 (2011) HORIZONTAL; NAVD 88 (GEOID 18) VERTICAL.

PARKING TABLE

NUMBER OF SPACES	TYPE OF PARKING SPACE
25	STANDARD
2	A.D.A. STANDARD
27	TOTAL

LEGEND:

PROPOSED VEGETATION AREA

PROPOSED LANDSCAPE STRUCTURE

PROPOSED BOARDWALK

PROPOSED PARKING LOT / CURB & GUTTER / USPS PAD

PROPOSED SIDEWALK

PROPOSED PAVEMENT REPAIR

PROPOSED RE-GRADED DITCH FLOWLINE

PROJECT LIMITS

PROPERTY LINE

PROJECT BASELINE

EXISTING OVERHEAD ELECTRICAL LINE

RELOCATED OVERHEAD ELECTRICAL LINE BY AEP

EXISTING EASEMENT

BASELINE L1 IS DEFINED ALONG A NE-SW AXIS AND IS CENTERLINE OF EXISTING WALK

BASELINE L2 IS DEFINED ALONG A E-W AXIS AND IS THE CENTER LINE BETWEEN BENCHMARKS CP101 AND CP100

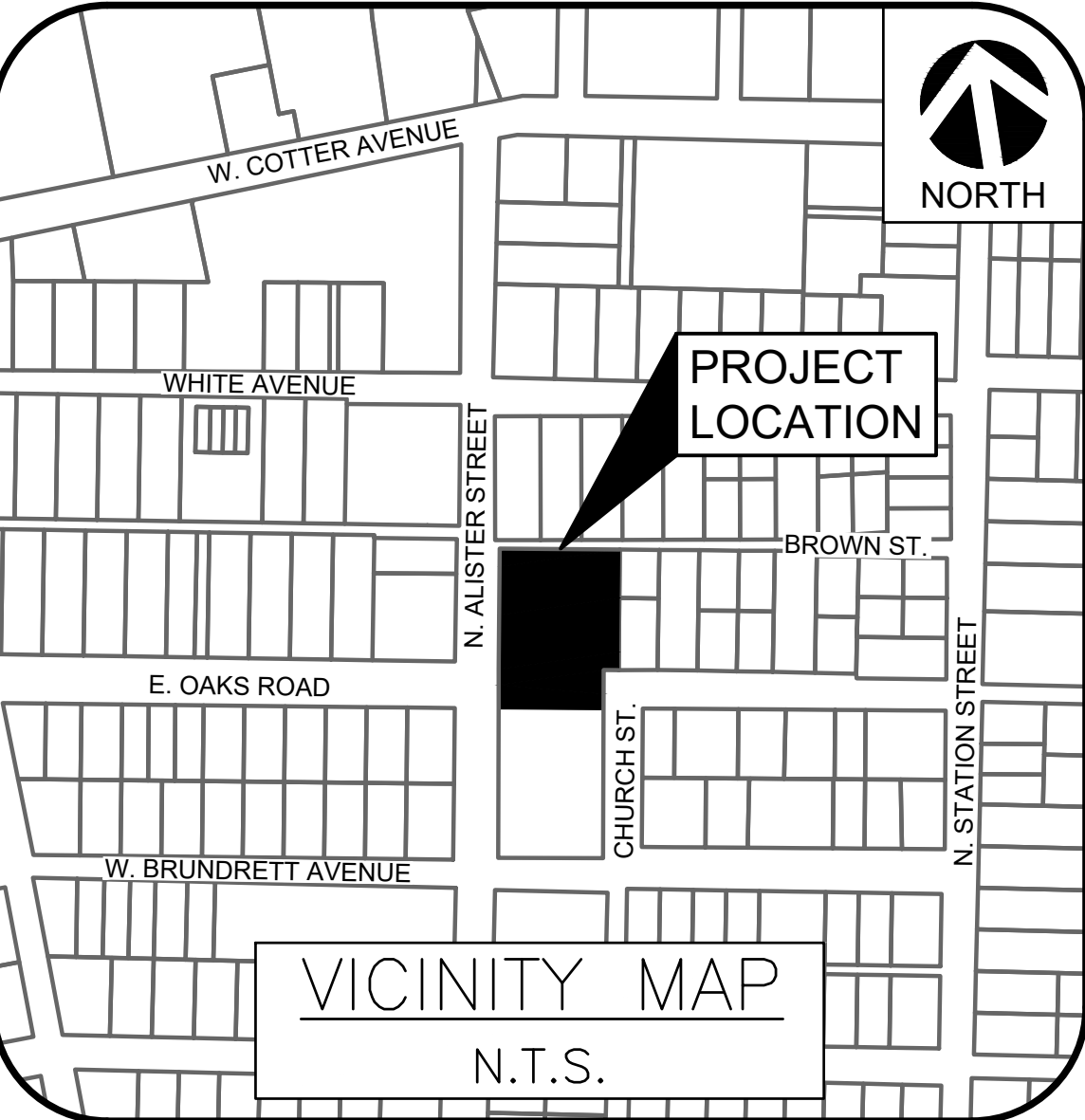
PROPOSED STORM GRATE INLET

PROPOSED PRECAST S.E.T.

CONTROL POINT

NOTES:

- REFER TO LANDSCAPE SHEETS FOR LANDSCAPE ELEMENT DESCRIPTIONS, SHADE STRUCTURE TYPES AND PROPOSED VEGETATION.
- SEE SITE PLAN DETAILS SHEET FOR ADA (HANDICAP) SIGNAGE AND STRIPING DETAILS.
- ALL STRIPING SHALL BE 4-INCH THICK WHITE PAINT, UNLESS MARKED OTHERWISE.
- CONTRACTOR SHALL CONTACT THE ENGINEER WITH ANY ITEMS ON THESE PLANS THAT NEED CLARIFICATION OR ANY ITEMS FOUND IN THE FIELD THAT ARE NOT CONSISTENT WITH THESE PLANS.
- CONTRACTOR SHALL VERIFY ACCESSIBLE FEATURES MEET THE TEXAS DEPARTMENT OF LICENSING AND REGISTRATION ARCHITECTURAL BARRIERS ACT AND TEXAS ACCESSIBILITY STANDARDS (CURRENT AT THE TIME OF CONSTRUCTION) PRIOR TO POURING CONCRETE.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL, AS REQUIRED, FOR TIE-IN TO EXISTING ROADS.
- PARKING LOT AND ROADWAY NORTHING AND EASTING AT BACK OF CURB, UNLESS NOTED OTHERWISE.



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PARK EXPANSION
PARKS AND RECREATION
DEPARTMENT
PORT ARANSAS, TX



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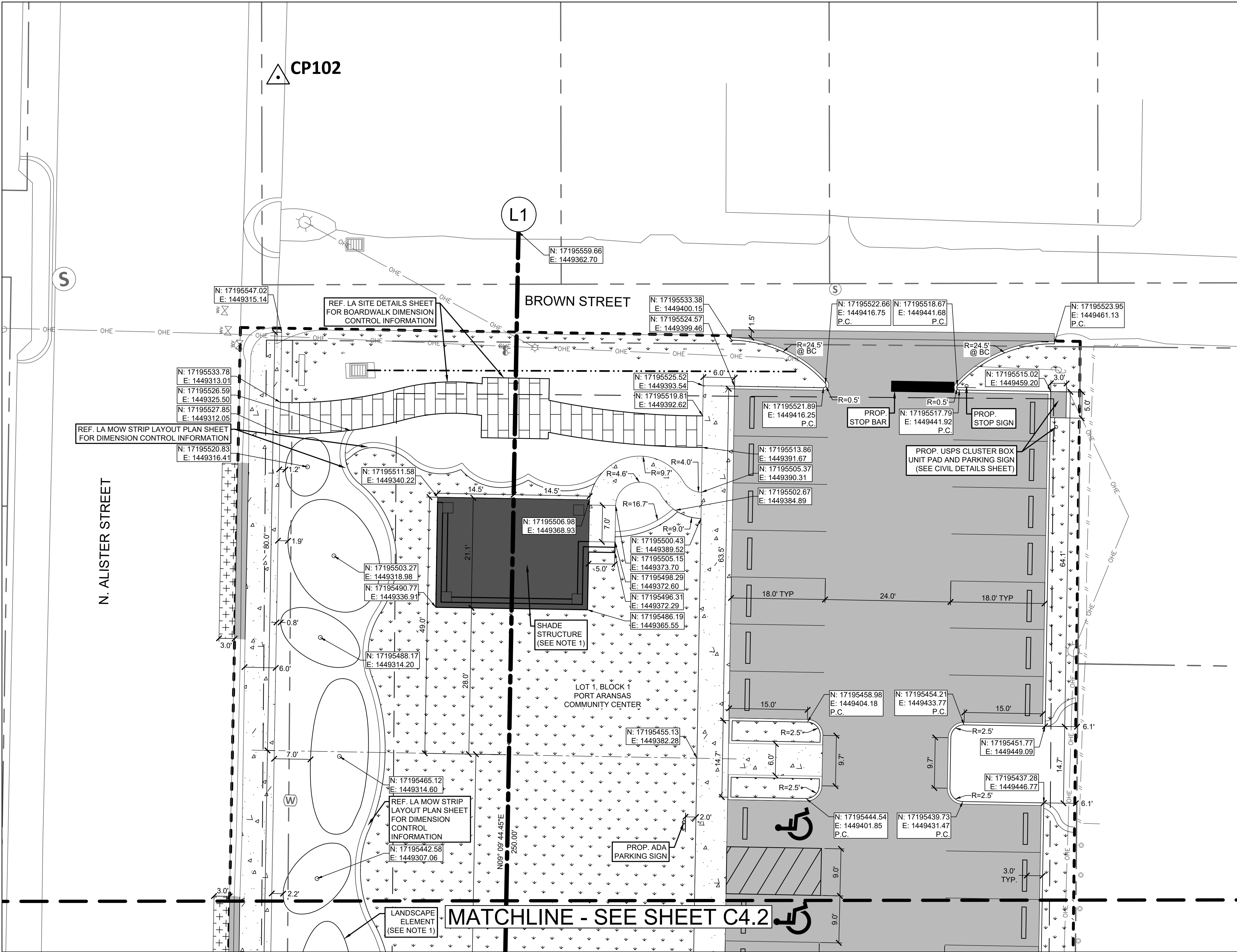
REVISION NO.	DATE	DESCRIPTION



100%
BID SET

PROJECT NO.:	46201.004
ISSUED:	AS SHOWN
DRAWN BY:	AR & RB
CHECKED BY:	TE
SCALE:	1" = 20'
SHEET TITLE	OVERALL DIMENSIONAL CONTROL PLAN

C4.0



CONTROL POINTS AND BENCHMARKS:

(ALL COORDINATES SHOWN ARE GRID COORDINATES)

CP/BM	NORTHING	EASTING	ELEVATION	TYPE
100	17195317.89	1449450.46	5.05'	SET 1/2" IRON ROD
101	17195347.81	1449233.12	4.52'	SET 'X' MARK ON SIDEWALK
102	17195595.42	1449321.35	4.56'	SET 'X' MARK ON SIDEWALK

CONTROL POINT NOTES:

- THIS DRAWING, THE ASSOCIATED DATA AND CONTROL POINTS ARE REFERENCED TO THE TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (4205), NAD 83 (2011) HORIZONTAL; NAVD 88 (GEOID 18) VERTICAL.

PARKING TABLE

NUMBER OF SPACES	TYPE OF PARKING SPACE
25	STANDARD
2	A.D.A. STANDARD
27	TOTAL

LEGEND:

	PROPOSED PARKING LOT / CURB & GUTTER / USPS PAD		PROPOSED STORM GRATE INLET
	PROPOSED SIDEWALK		PROPOSED PRECAST S.E.T.
	PROPOSED PAVEMENT REPAIR		CONTROL POINT
	PROPOSED VEGETATION AREA		BASELINE L1 IS DEFINED ALONG A NE-SW AXIS AND IS CENTERLINE OF EXISTING WALK
	PROPOSED LANDSCAPE STRUCTURE		BASELINE L2 IS DEFINED ALONG A E-W AXIS AND IS THE CENTER LINE BETWEEN BENCHMARKS CP101 AND CP100
	PROPOSED BOARDWALK		
	PROPOSED RE-GRADED DITCH FLOWLINE		
	PROJECT LIMITS		
	PROPERTY LINE		
	PROJECT BASELINE		
	EXISTING OVERHEAD ELECTRICAL LINE		
	RELOCATED OVERHEAD ELECTRICAL LINE BY AEP		
	EXISTING EASEMENT		

NOTES:

- REFER TO LANDSCAPE SHEETS FOR LANDSCAPE ELEMENT DESCRIPTIONS, SHADE STRUCTURE TYPES AND PROPOSED VEGETATION.
- SEE SITE PLAN DETAILS SHEET FOR ADA (HANDICAP) SIGNAGE AND STRIPING DETAILS.
- ALL STRIPING SHALL BE 4-INCH THICK WHITE PAINT, UNLESS MARKED OTHERWISE.
- CONTRACTOR SHALL CONTACT THE ENGINEER WITH ANY ITEMS ON THESE PLANS THAT NEED CLARIFICATION OR ANY ITEMS FOUND IN THE FIELD THAT ARE NOT CONSISTENT WITH THESE PLANS.
- CONTRACTOR SHALL VERIFY ACCESSIBLE FEATURES MEET THE TEXAS DEPARTMENT OF LICENSING AND REGISTRATION ARCHITECTURAL BARRIERS ACT AND TEXAS ACCESSIBILITY STANDARDS (CURRENT AT THE TIME OF CONSTRUCTION) PRIOR TO POURING CONCRETE.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL, AS REQUIRED, FOR TIE-IN TO EXISTING ROADS.
- PARKING LOT AND ROADWAY NORTHING AND EASTING AT BACK OF CURB, UNLESS NOTED OTHERWISE.

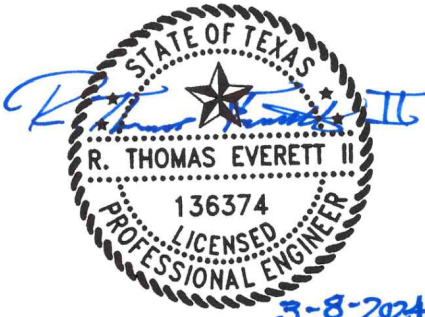


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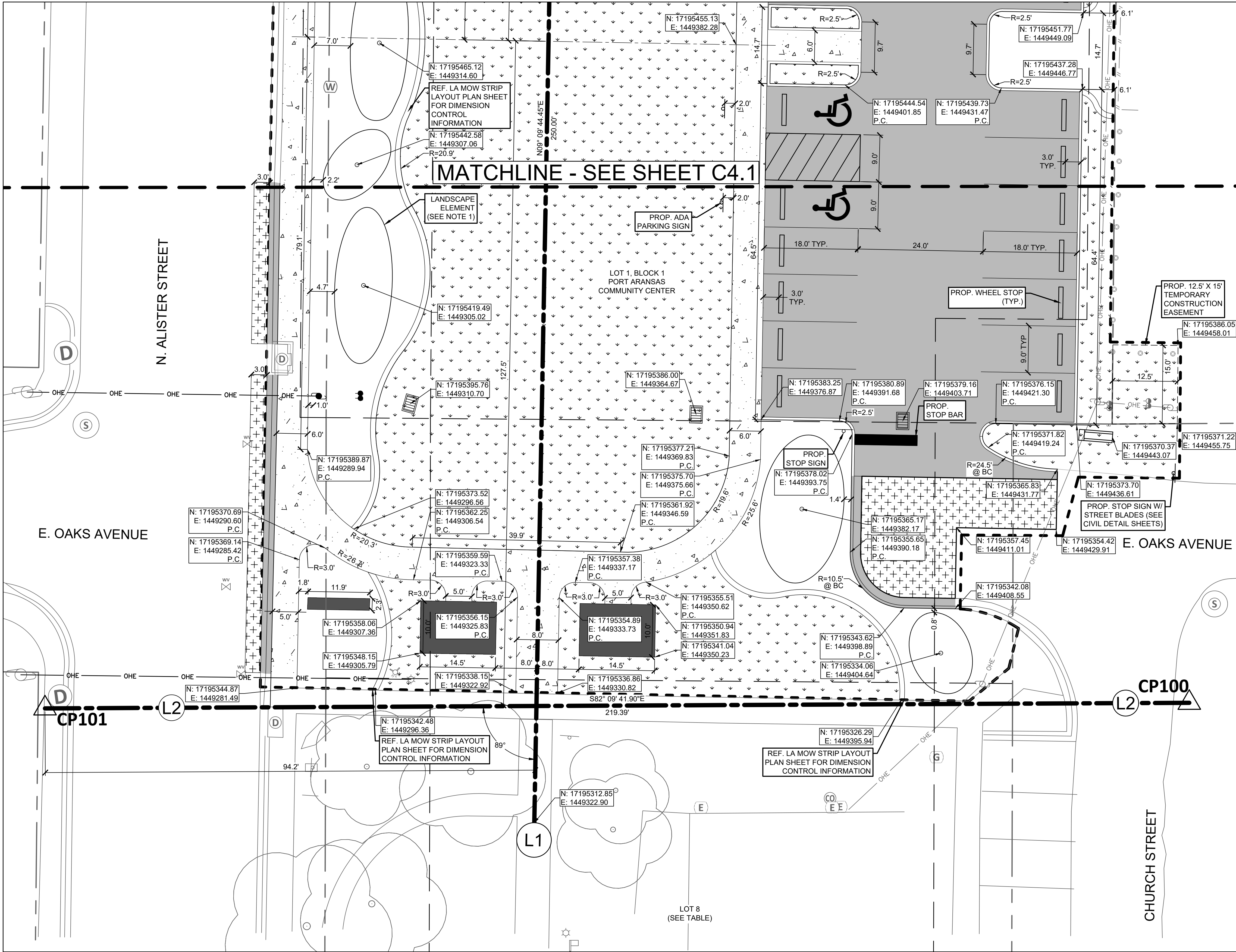


100%
BID SET

PROJECT NO.: 46201.004
ISSUED: AS SHOWN
DRAWN BY: AR & RB
CHECKED BY: TE
SCALE: 1" = 10'
SHEET TITLE
DIMENSIONAL
CONTROL PLAN
(1 OF 2)

C4.1

FILE NAME: A:\6000s\46201\004\LD\ADD\Sheets\C-PLAN-SITE-46201_004.dwg DATE: March 8, 2024, TIME: 6:25 PM, USER: ah4853 AVO: 46201_004



CONTROL POINTS AND BENCHMARKS:

(ALL COORDINATES SHOWN ARE GRID COORDINATES)

CP/BM	NORTHING	EASTING	ELEVATION	TYPE
100	17195317.89	1449450.46	5.05'	SET 1/2" IRON ROD
101	17195347.81	1449233.12	4.52'	SET 'X' MARK ON SIDEWALK
102	17195595.42	1449321.35	4.56'	SET 'X' MARK ON SIDEWALK

CONTROL POINT NOTES:

- THIS DRAWING, THE ASSOCIATED DATA AND CONTROL POINTS ARE REFERENCED TO THE TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (4205), NAD 83 (2011) HORIZONTAL; NAVD 88 (GEOID 18) VERTICAL.

PARKING TABLE

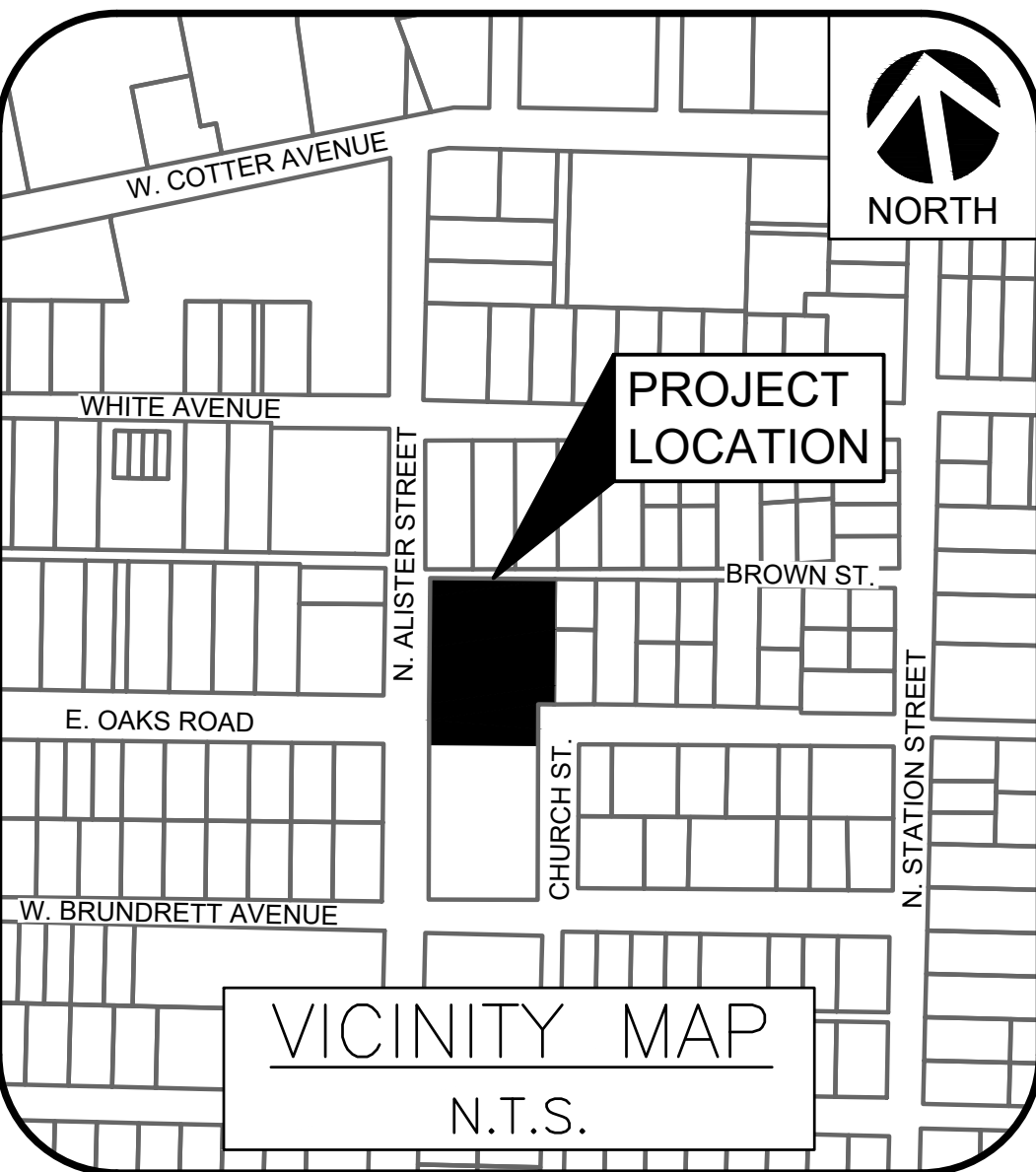
NUMBER OF SPACES	TYPE OF PARKING SPACE
25	STANDARD
2	A.D.A. STANDARD
27	TOTAL

LEGEND:

	PROPOSED PARKING LOT / CURB & GUTTER / USPS PAD		PROPOSED STORM GRATE INLET
	PROPOSED SIDEWALK		PROPOSED PRECAST S.E.T.
	PROPOSED PAVEMENT REPAIR		CONTROL POINT
	PROPOSED VEGETATION AREA	L1	BASELINE L1 IS DEFINED ALONG A NE-SW AXIS AND IS CENTERLINE OF EXISTING WALK
	PROPOSED LANDSCAPE STRUCTURE	L2	BASELINE L2 IS DEFINED ALONG A E-W AXIS AND IS THE CENTER LINE BETWEEN BENCHMARKS CP101 AND CP100
	PROPOSED BOARDWALK		
	PROPOSED RE-GRADED DITCH FLOWLINE		
	PROJECT LIMITS		
	PROPERTY LINE		
	PROJECT BASELINE		
	EXISTING OVERHEAD ELECTRICAL LINE		
	RELOCATED OVERHEAD ELECTRICAL LINE BY AEP		
	EXISTING EASEMENT		

NOTES:

- REFER TO LANDSCAPE SHEETS FOR LANDSCAPE ELEMENT DESCRIPTIONS, SHADE STRUCTURE TYPES AND PROPOSED VEGETATION.
- SEE SITE PLAN DETAILS SHEET FOR ADA (HANDICAP) SIGNAGE AND STRIPING DETAILS.
- ALL STRIPING SHALL BE 4-INCH THICK WHITE PAINT, UNLESS MARKED OTHERWISE.
- CONTRACTOR SHALL CONTACT THE ENGINEER WITH ANY ITEMS ON THESE PLANS THAT NEED CLARIFICATION OR ANY ITEMS FOUND IN THE FIELD THAT ARE NOT CONSISTENT WITH THESE PLANS.
- CONTRACTOR SHALL VERIFY ACCESSIBLE FEATURES MEET THE TEXAS DEPARTMENT OF LICENSING AND REGISTRATION ARCHITECTURAL BARRIERS ACT AND TEXAS ACCESSIBILITY STANDARDS (CURRENT AT THE TIME OF CONSTRUCTION) PRIOR TO POURING CONCRETE.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL, AS REQUIRED, FOR TIE-IN TO EXISTING ROADS.
- PARKING LOT AND ROADWAY NORTHING AND EASTING AT BACK OF CURB, UNLESS NOTED OTHERWISE.



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REVISION NO.	DATE	DESCRIPTION

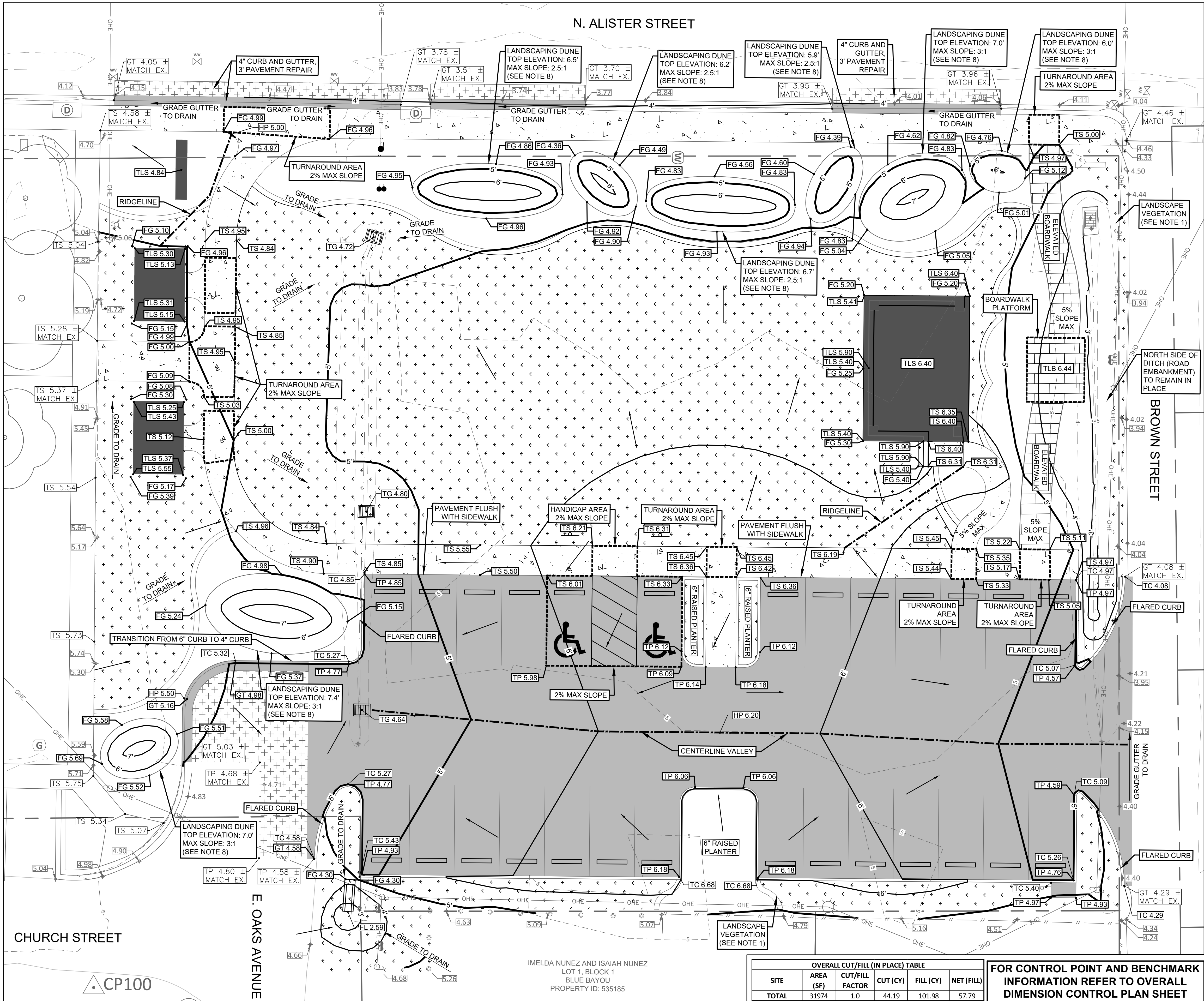


**100%
BID SET**

PROJECT NO.: 46201.004
ISSUED: AS SHOWN
DRAWN BY: AR & RB
CHECKED BY: TE
SCALE: 1" = 10'
SHEET TITLE
DIMENSIONAL
CONTROL PLAN
(2 OF 2)

C4.2

FILE NAME: A:\46000s\46201\004\LD\CADD\Sheets\C-PLAN-GRAD-46201.dwg DATE: March 8, 2024, TIME: 6:25 PM, USER: ah4853 AVO: 46201.004



LEGEND:

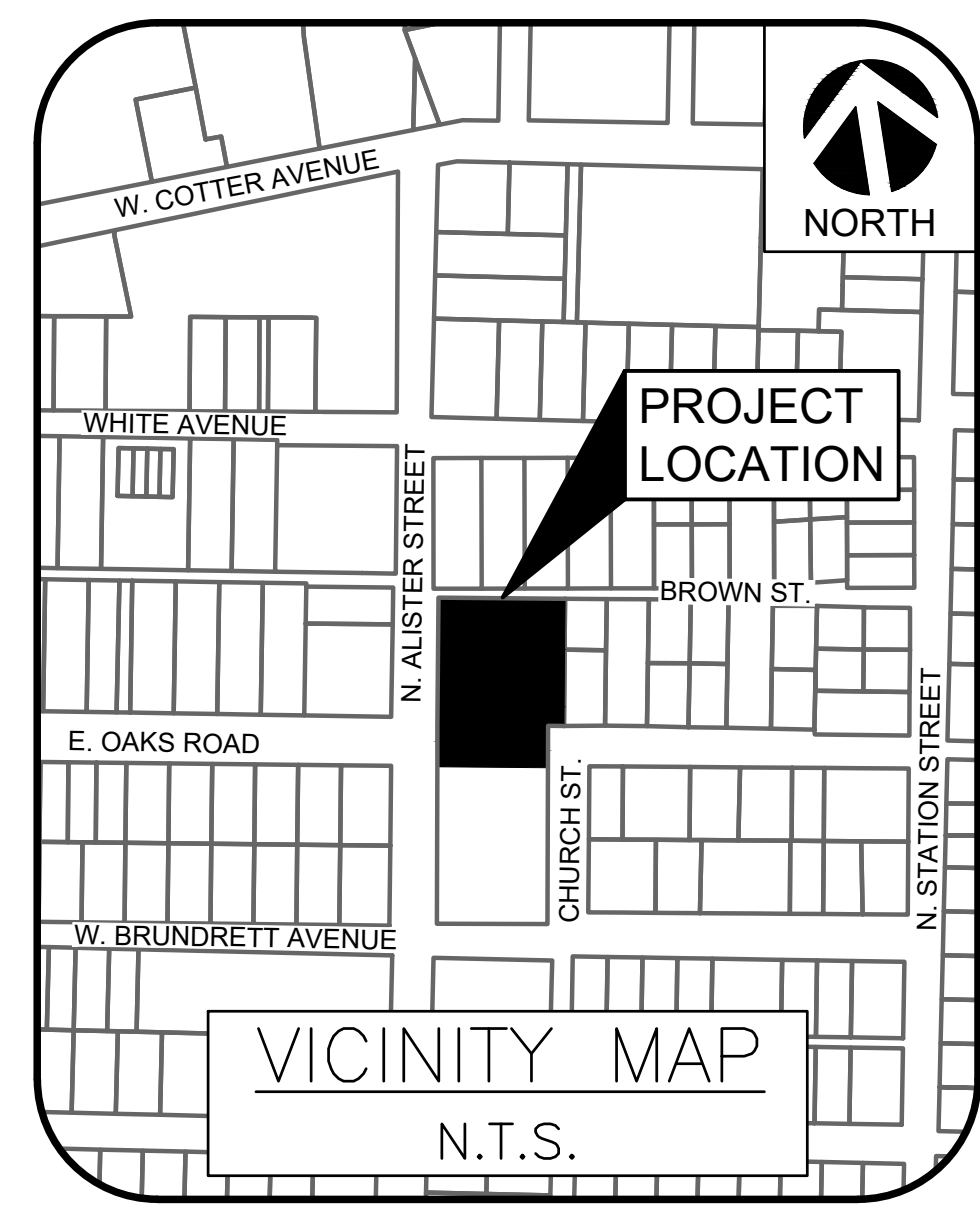
EXISTING SPOT ELEVATION (FT)	EXISTING GUTTER SPOT ELEVATION (FT)
EXISTING TOP OF SIDEWALK SPOT ELEVATION (FT)	MATCH EXISTING TOP OF SIDEWALK SPOT ELEVATION (FT)
MATCH EXISTING GUTTER SPOT ELEVATION (FT)	PROPOSED TOP OF CURB (FT)
PROPOSED TOP OF LANDSCAPE BOARDWALK (FT)	PROPOSED TOP OF LANDSCAPE STRUCTURE (FT)
PROPOSED FINISHED GROUND ELEVATION (FT)	PROPOSED GUTTER SPOT ELEVATION (FT)
PROPOSED TOP OF PAVEMENT ELEVATION (FT)	PROPOSED TOP OF SIDEWALK ELEVATION (FT)
PROPOSED MAJOR CONTOUR AND ELEVATION (FT)	PROPOSED MINOR CONTOUR AND ELEVATION (FT)
PROPOSED SURFACE BREAKLINE	

- NOTES:**
- REFER TO LANDSCAPE SHEETS FOR LANDSCAPE ELEMENT DESCRIPTIONS, SHADE STRUCTURE TYPES AND PROPOSED VEGETATION.
 - CONTRACTOR TO CONTACT THE ENGINEER WITH ANY ITEMS ON THESE PLANS THAT NEED CLARIFICATION OR ANY ITEMS FOUND IN THE FIELD THAT ARE NOT CONSISTENT WITH THESE PLANS.
 - NEW PAVEMENT SHALL MATCH EXISTING PAVEMENT ELEVATIONS AT TIE-INS TO EXISTING ROADS.
 - CONTRACTOR TO ENSURE POSITIVE DRAINAGE IN GRASSY AND PAVED AREAS AND GRADE TO DRAIN AWAY FROM BUILDINGS AND STRUCTURES.
 - CONTRACTOR TO VERIFY ACCESSIBLE FEATURES MEET THE TEXAS DEPARTMENT OF LICENSING AND REGISTRATION'S ARCHITECTURAL BARRIERS AND TEXAS ACCESSIBILITY STANDARDS (CURRENT AT THE TIME OF CONSTRUCTION) PRIOR TO POURING CONCRETE. MAXIMUM CROSS SLOPE OF 2% AND MAXIMUM RUNNING SLOPE OF 5% ON ALL PATHS AND SIDEWALKS.
 - PRIOR TO CONSTRUCTION, ANY PAVEMENTS, VEGETATION, LOOSE TOPSOIL, AND ANY OTHERWISE UNSUITABLE MATERIALS SHOULD BE REMOVED FROM THE CONSTRUCTION AREA.
 - EXISTING ADJACENT PRIVATE PROPERTY FENCES AND BOLLARDS SHALL BE PROTECTED DURING CONSTRUCTION.
 - THE CONTRACTOR SHALL REVIEW THE TERRACON CONSULTANTS, INC. "GEOTECHNICAL ENGINEERING REPORT FOR PORT ARANSAS COMMUNITY CENTER PARKING ADDITION - PORT ARANSAS, TEXAS" PROJECT NO. CD235016 DATED AUGUST 30, 2023. THE CONTRACTOR SHALL MEET THE REQUIREMENTS OUTLINED IN THE GEOTECHNICAL ENGINEERING REPORT FOR THE FOLLOWING SECTIONS: GEOTECHNICAL OVERVIEW, EARTHWORK, SHALLOW FOUNDATIONS, UTILITY LINES, LANDSCAPE DUNES, AND PAVEMENTS. THE CONTRACTOR SHALL DETERMINE THE MEANS AND METHODS TO MEET THESE REQUIREMENTS.

OVERALL CUT/FILL (IN PLACE) TABLE

SITE	AREA (SF)	CUT/FILL FACTOR	CUT (CY)	FILL (CY)	NET (FILL)
TOTAL	31974	1.0	44.19	101.98	57.79

FOR CONTROL POINT AND BENCHMARK INFORMATION REFER TO OVERALL DIMENSION CONTROL PLAN SHEET



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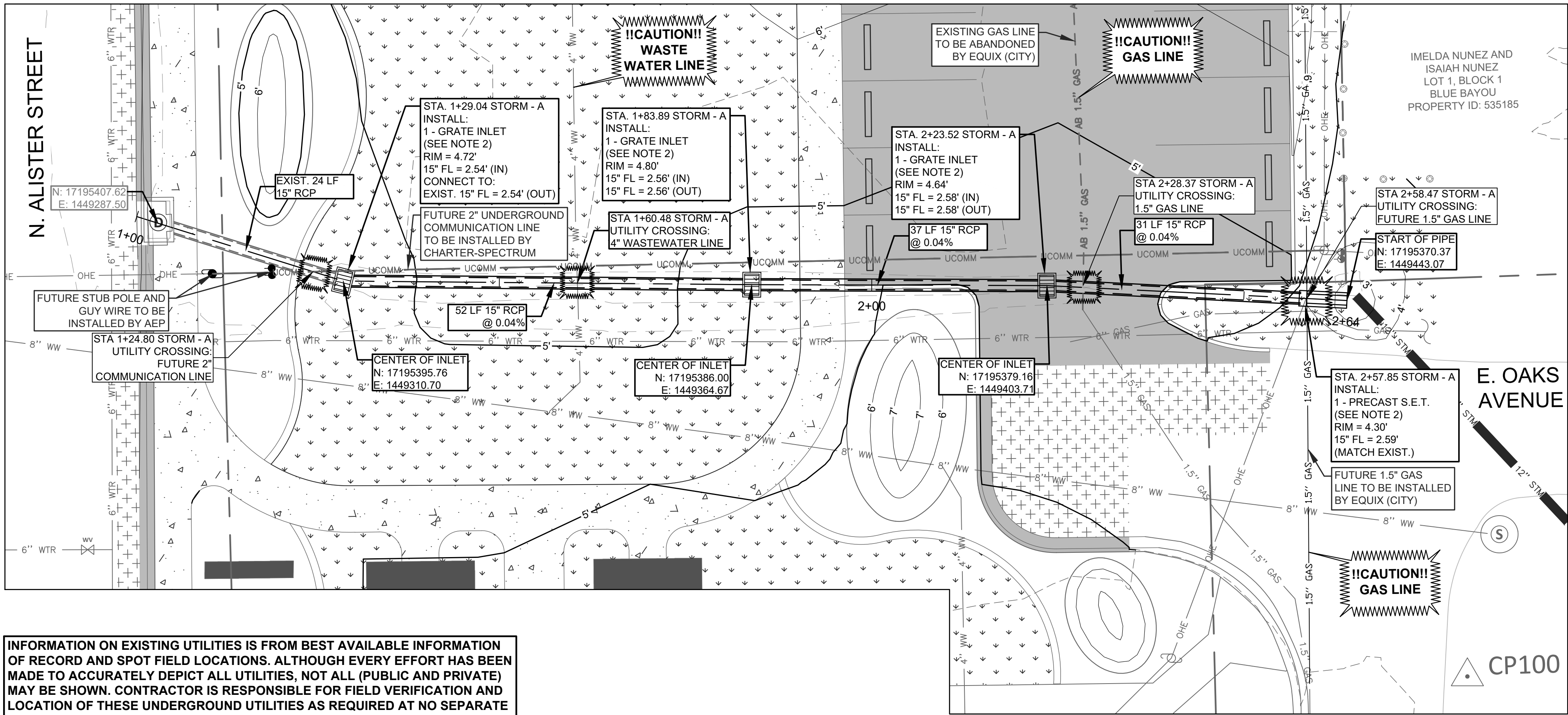
REVISION NO.	DATE	DESCRIPTION

**100%
BID SET**

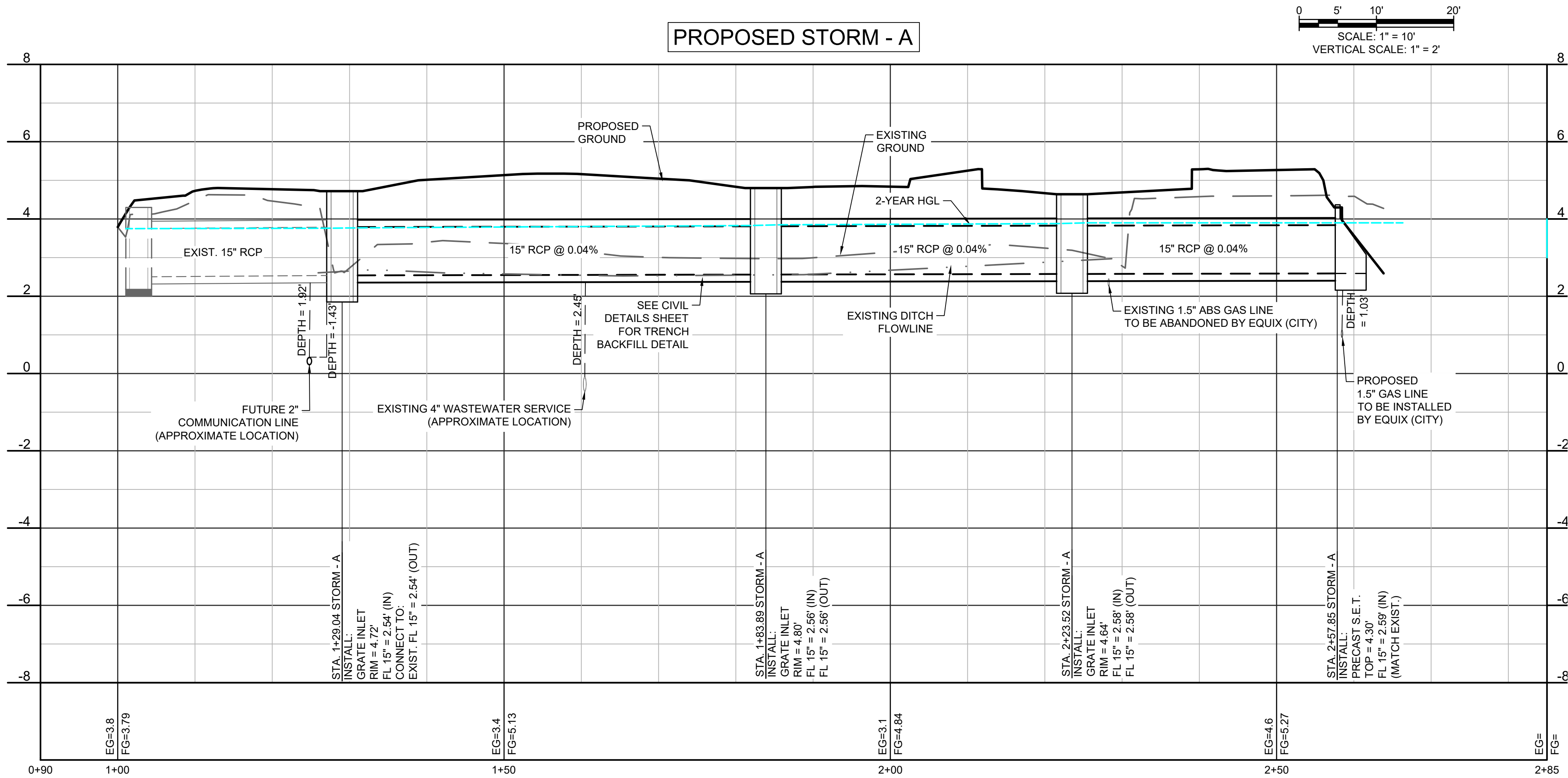
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ISSUED: AS SHOWN
DRAWN BY: AR & RB
CHECKED BY: TE
SCALE: 1" = 10'
SHEET TITLE

GRADING PLAN

C5.0



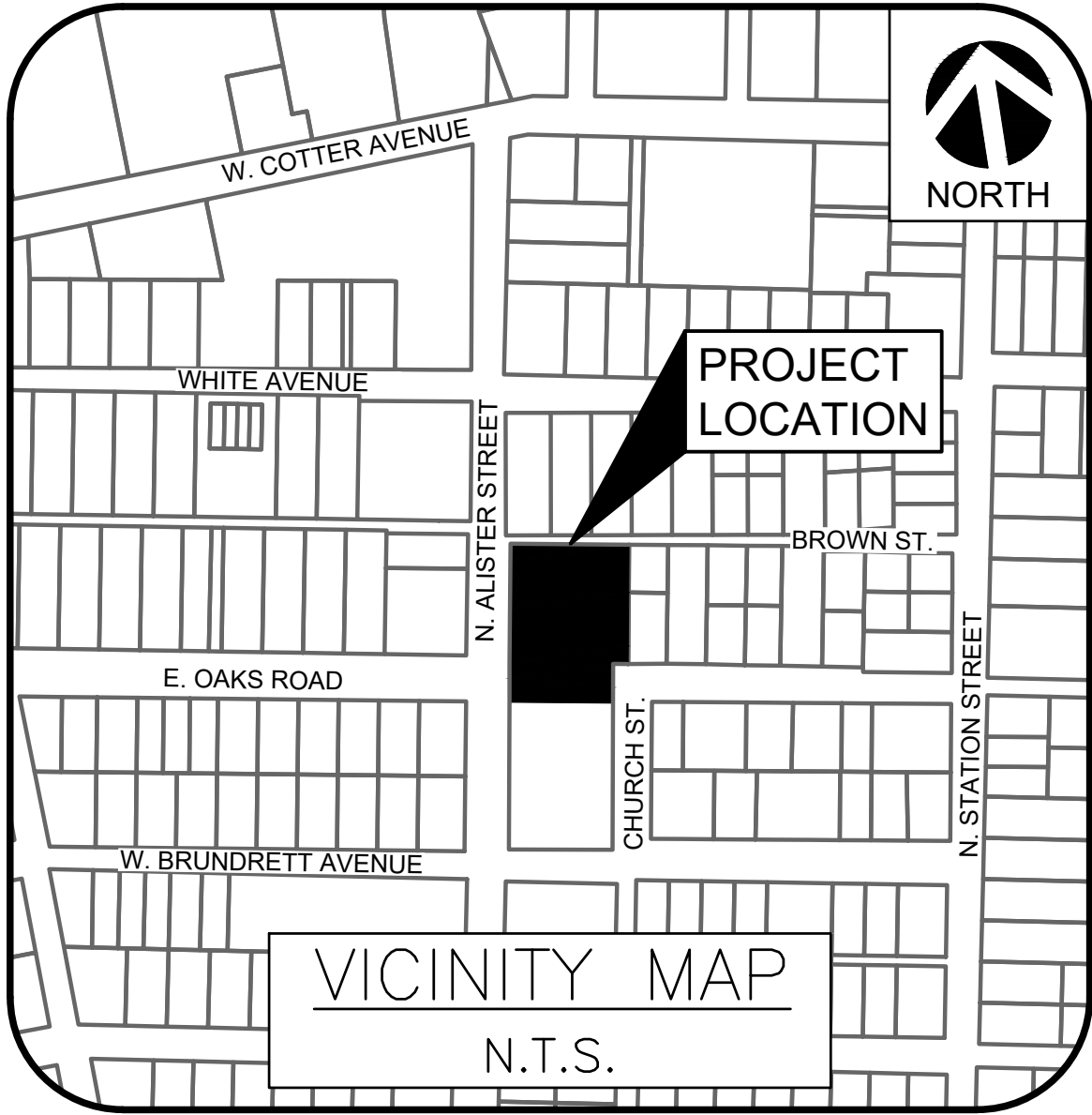
INFORMATION ON EXISTING UTILITIES IS FROM BEST AVAILABLE INFORMATION OF RECORD AND SPOT FIELD LOCATIONS. ALTHOUGH EVERY EFFORT HAS BEEN MADE TO ACCURATELY DEPICT ALL UTILITIES, NOT ALL (PUBLIC AND PRIVATE) MAY BE SHOWN. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION AND LOCATION OF THESE UNDERGROUND UTILITIES AS REQUIRED AT NO SEPARATE PAY. CONTRACTOR TO COORDINATE WITH ALL UTILITY COMPANIES.



LEGEND:

EXISTING GRATE INLET	PROPOSED GRATE INLET
EXISTING STORM WATER MANHOLE / CURB INLET	PROPOSED PRECAST S.E.T.
PROPOSED STORM LINE	HYDRAULIC GRADE LINE (HGL)
EXISTING STORM LINE	EXISTING OVERHEAD ELECTRICAL LINE
EXISTING GAS LINE	EXISTING WATER LINE
EXISTING WASTE WATER LINE	RELOCATED UNDERGROUND COMMUNICATION LINE BY CHARTER
!!CAUTION!! UTILITY CROSSING	

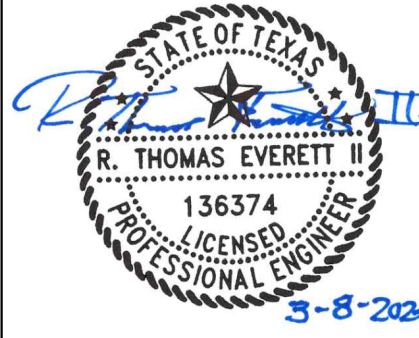
- NOTES:**
- ALL REINFORCED CONCRETE PIPE SHALL BE CLASS IV, RING TIGHT JOINT.
 - ALL GRATE INLETS SHALL BE PER CITY DETAIL, SEE CIVIL DETAILS SHEET.



half

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TEL: (361) 400-4900
TBP&LS FIRM #4-312

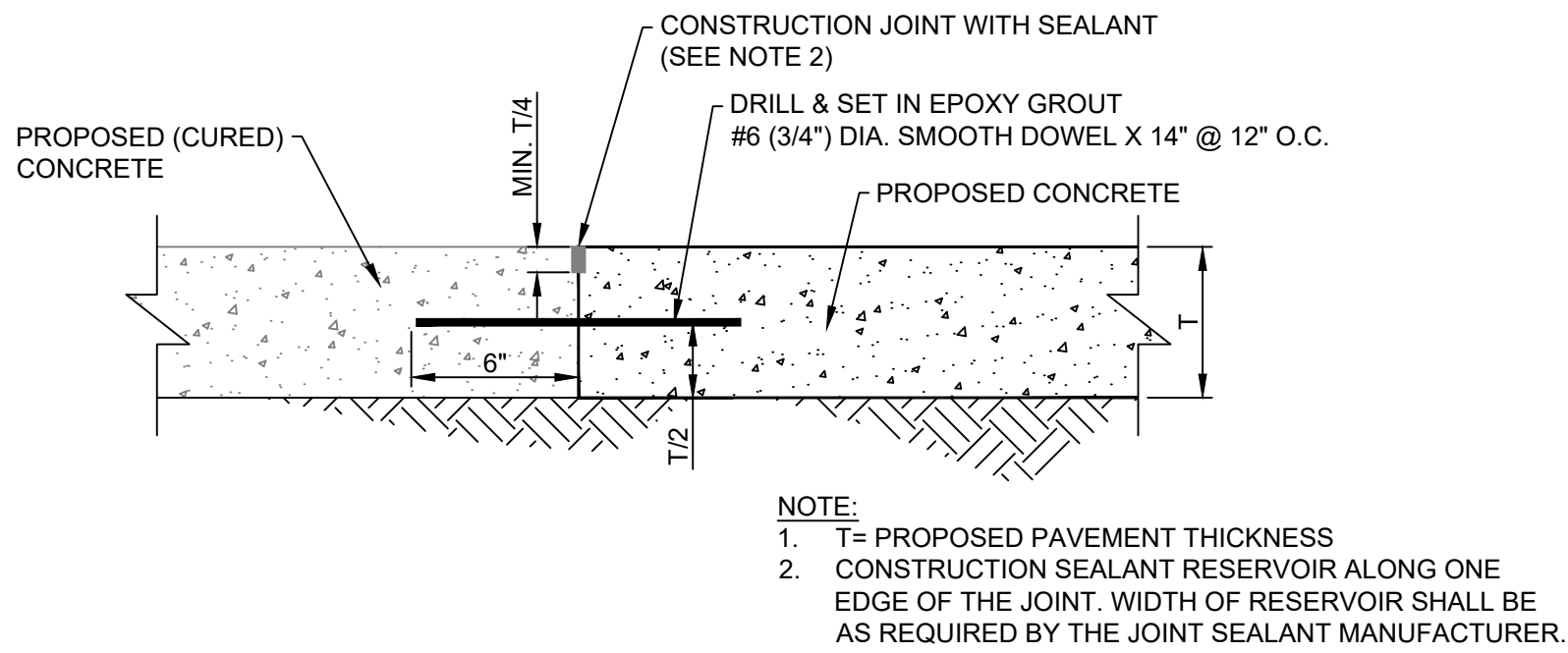
REVISION NO.	DATE	DESCRIPTION



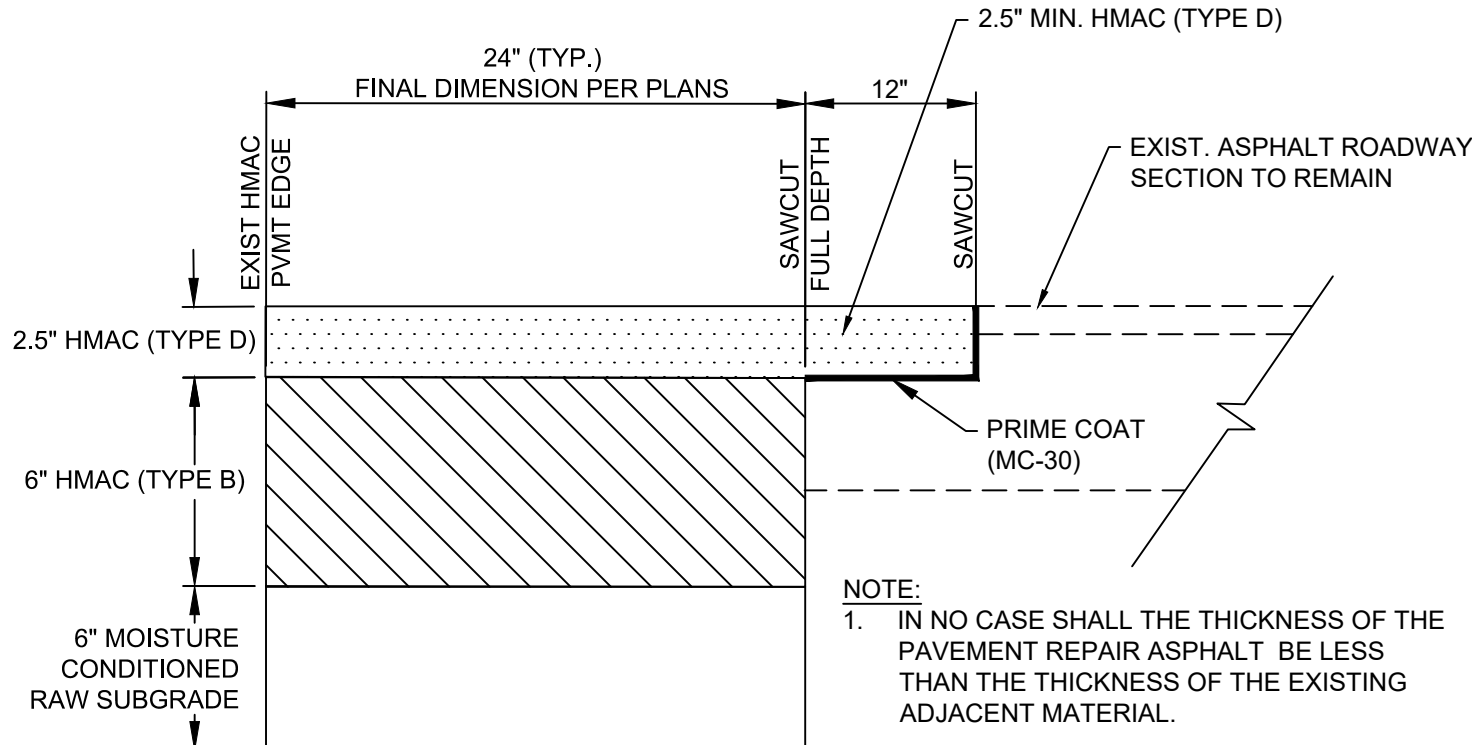
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PROJECT NO.: 46201.004
ISSUED: AS SHOWN
DRAWN BY: AR & RB
CHECKED BY: TE
SCALE: 1" = 10'
SHEET TITLE
**STORM - A
PLAN & PROFILE**
C6.0

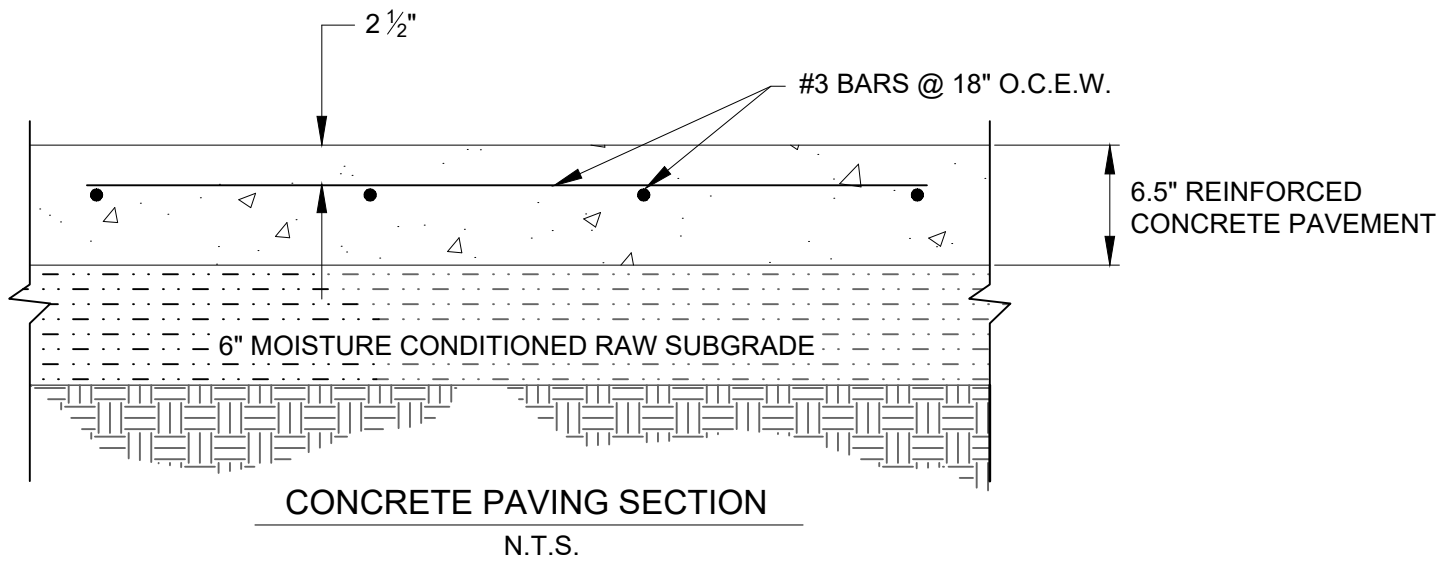
FILE NAME: A:\46000s\46201\004\LD\CAD\Drawings\C-PLAN-STRM-46201.004.dwg DATE: March 8, 2024, TIME: 6:25 PM, USER: ah4853 AVO: 46201.004



PAVEMENT CONSTRUCTION JOINT REINFORCEMENT
SCALE: N.T.S.

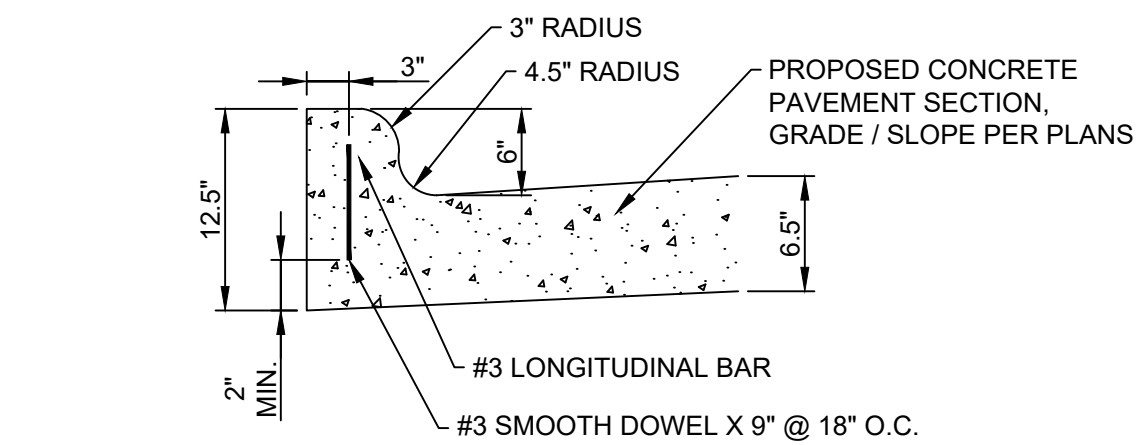


ASPHALT ROADWAY REPAIR AND TIE-IN TO
EXISTING ASPHALT PAVEMENT ROADWAY
SCALE: N.T.S.

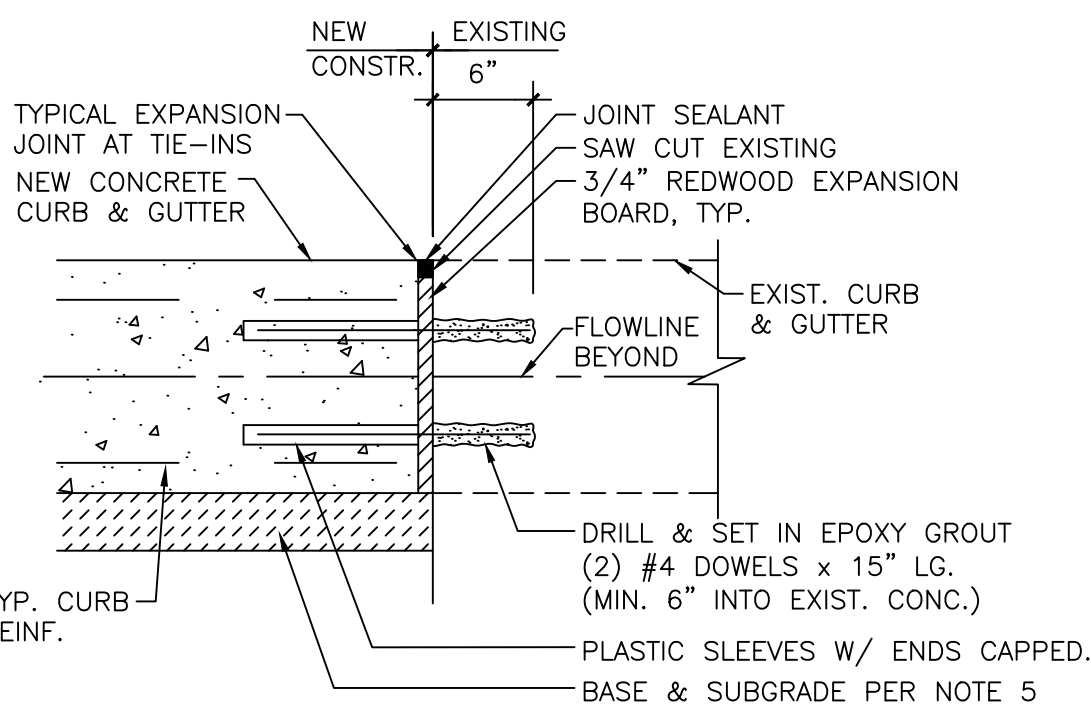


CONCRETE PAVING SECTION NOTES:

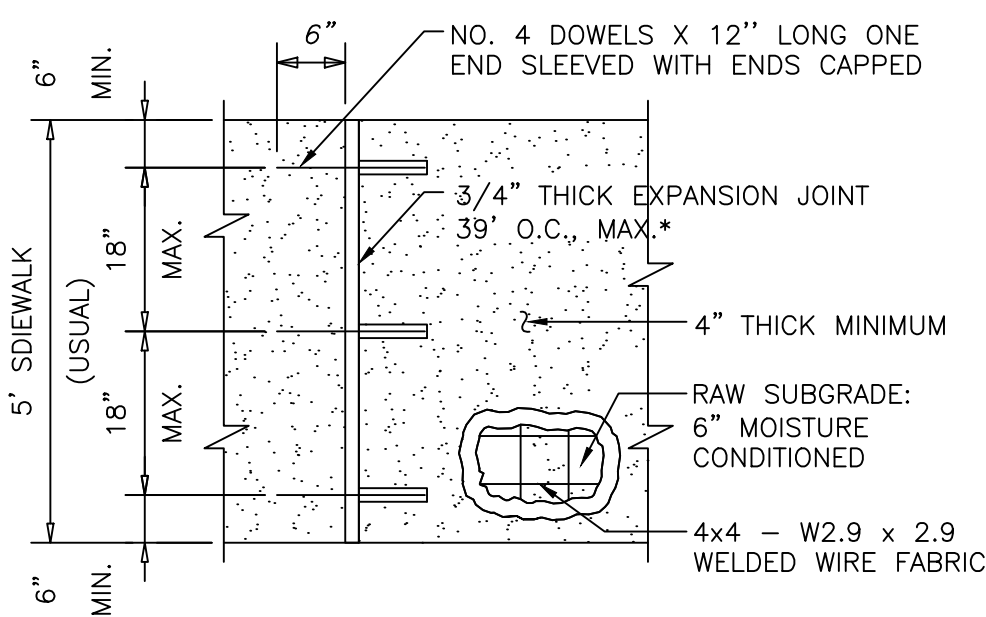
- PORTLAND CEMENT CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH GREATER THAN OR EQUAL TO 4,000 PSI. CONCRETE MIX DESIGN, SUPPLIER, ADMIXTURES, AND GRADATIONS, TESTS, ETC. FOR CONCRETE MATERIALS SHALL BE SUBMITTED TO ENGINEER OF RECORD FOR REVIEW PRIOR TO CONSTRUCTION.
- JOINTING AND SPACING SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE GUIDE FOR DESIGN AND CONSTRUCTION OF CONCRETE PARKING LOTS, ACI REPORT 330R. CONTRACTION JOINTS SHALL BE SPACED NO GREATER THAN 15 FEET. IF SAWCUT, CONTRACTION JOINTS SHALL BE CUT WITHIN 6 TO 12 HOURS OF CONCRETE PLACEMENT. SAWCUT SHALL BE AT LEAST 1/4 OF THE SLAB THICKNESS. SAWCUT JOINT WIDTH SHALL BE AS REQUIRED BY THE JOINT SEALANT MANUFACTURER. CONTRACTOR SHALL SUBMIT JOINT PLAN FOR CONTRACTION JOINTS TO ENGINEER PRIOR TO CONSTRUCTION OF CONCRETE PAVEMENT.
- CURBS SHALL BE POURED MONOLITHICALLY WITH CONCRETE PAVEMENT.
- 6" MOISTURE CONDITIONED RAW SUBGRADE SHALL CONFORM TO THE REQUIREMENTS OUTLINED WITHIN THE TERRACON CONSULTANTS, INC. "GEOTECHNICAL ENGINEERING REPORT FOR PORT ARANSAS COMMUNITY CENTER PARKING ADDITION - PORT ARANSAS, TEXAS" PROJECT NO. CD235016 DATED AUGUST 30, 2023. THE SUBGRADE SHOULD BE SCARIFIED TO A DEPTH OF 6 INCHES AND THEN MOISTURE CONDITIONED AND COMPACTED. PRIOR TO CONSTRUCTION, ANY PAVEMENTS, VEGETATION, LOOSE TOPSOIL, AND ANY OTHERWISE UNSUITABLE MATERIALS SHOULD BE REMOVED FROM THE CONSTRUCTION AREA. THE STRIPPED MATERIALS CONSISTING OF VEGETATION AND ORGANIC MATERIALS SHOULD BE WASTED FROM THE SITE OR USED TO REVEGETATE LANDSCAPED AREAS OR EXPOSED SLOPES AFTER COMPLETION OF GRADING OPERATIONS. WET OR DRY MATERIAL SHOULD EITHER BE REMOVED, OR MOISTURE CONDITIONED AND RECOMPACTED. AFTER STRIPPING AND GRUBBING, THE SUBGRADE SHOULD BE PROOF-ROLLED WHERE POSSIBLE TO AID IN LOCATING LOOSE OR SOFT AREAS. PROOF-ROLLING CAN BE PERFORMED WITH A FULLY LOADED DUMP TRUCK OR COMPARABLE PNEUMATIC TIRED VEHICLE. SOILS THAT ARE OBSERVED TO RUT OR DEFLECT EXCESSIVELY (TYPICALLY GREATER THAN 1-INCH) UNDER THE MOVING LOAD SHOULD BE UNDERCUT AND REPLACED WITH PROPERLY COMPACTED ON-SITE SOILS. THE PROOF-ROLLING AND UNDERCUTTING ACTIVITIES SHOULD BE WITNESSED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER AND SHOULD BE PERFORMED DURING A PERIOD OF DRY WEATHER. SUBGRADE COMPACTION SHALL BE 95 PERCENT OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698). THE MOISTURE CONTENT OF THE SUBGRADE SHALL BE MAINTAINED WITHIN THE RANGE OF OPTIMUM MOISTURE CONTENT FROM TWO PERCENTAGE POINTS BELOW (-2%) TO THREE PERCENTAGE POINTS (+3%) ABOVE THE OPTIMUM MOISTURE CONTENT UNTIL PERMANENTLY COVERED.
- CONCRETE PAVEMENT SECTION IS BASED ON THE TERRACON CONSULTANTS, INC. "GEOTECHNICAL ENGINEERING REPORT FOR PORT ARANSAS COMMUNITY CENTER PARKING ADDITION - PORT ARANSAS, TEXAS" PROJECT NO. CD235016 DATED AUGUST 30, 2023.



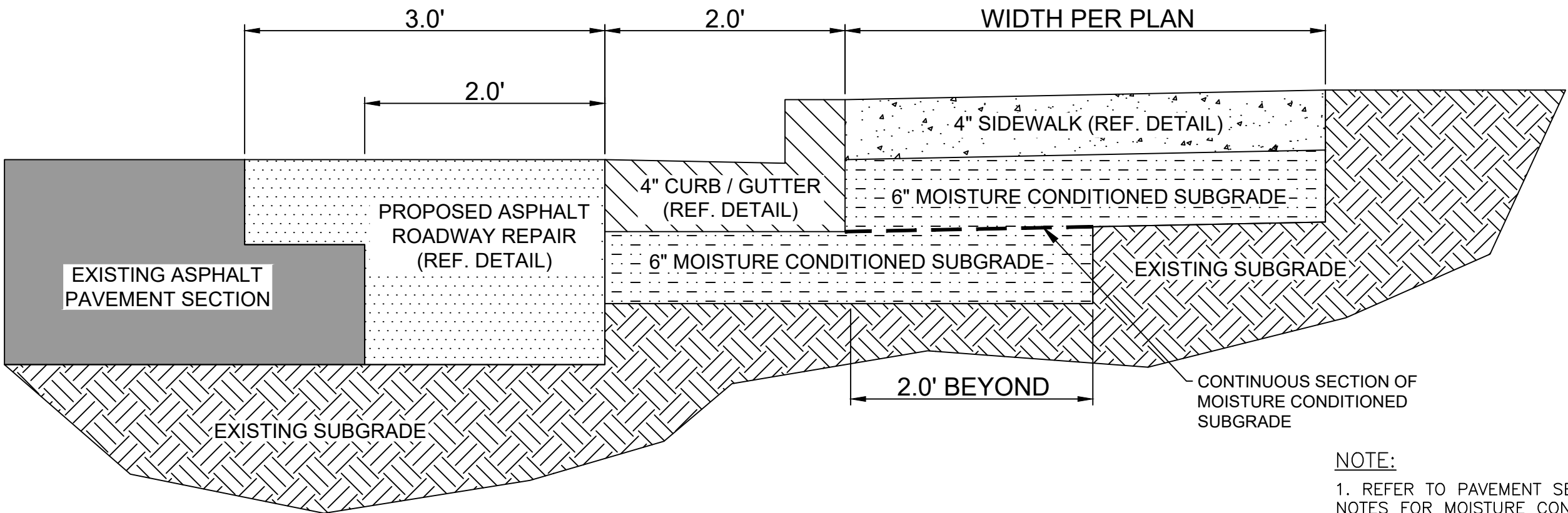
PARKING LOT MONOLITHIC CURB
SCALE: N.T.S.



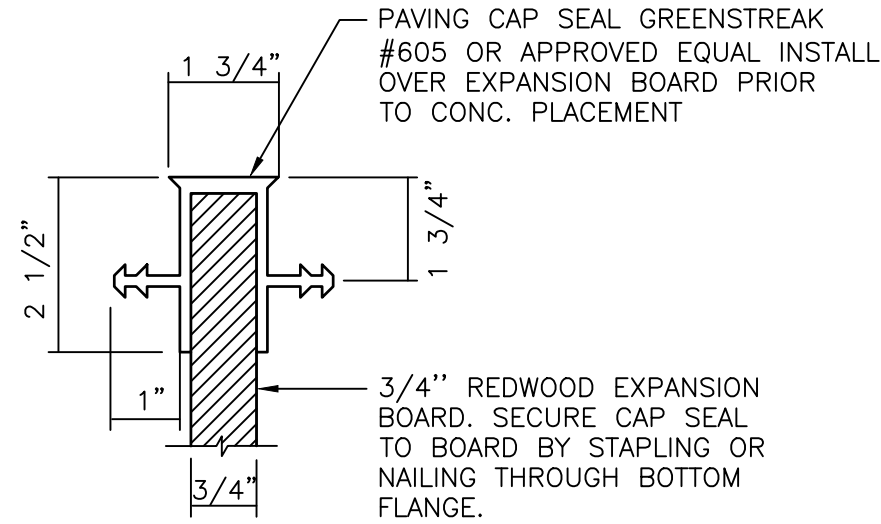
ROADWAY CURB AND GUTTER TIE-IN DETAIL
NOT TO SCALE



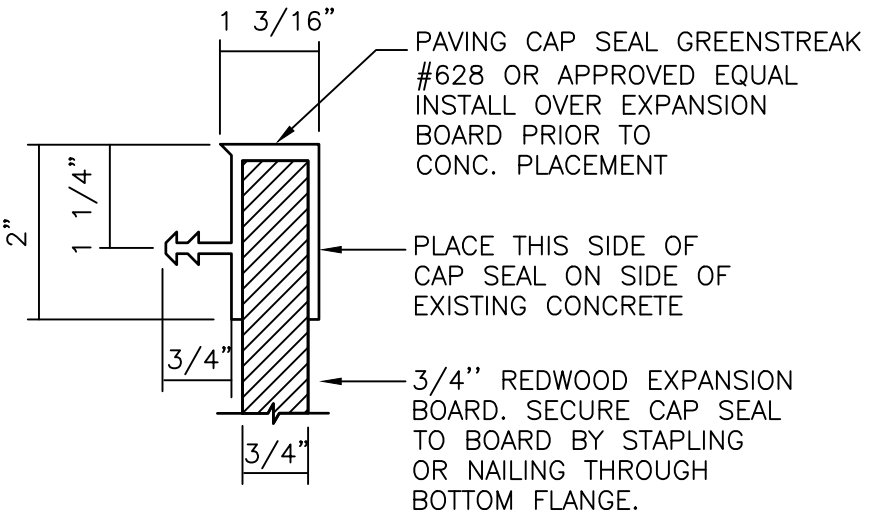
PLAN FOR SIDEWALK
NOT TO SCALE



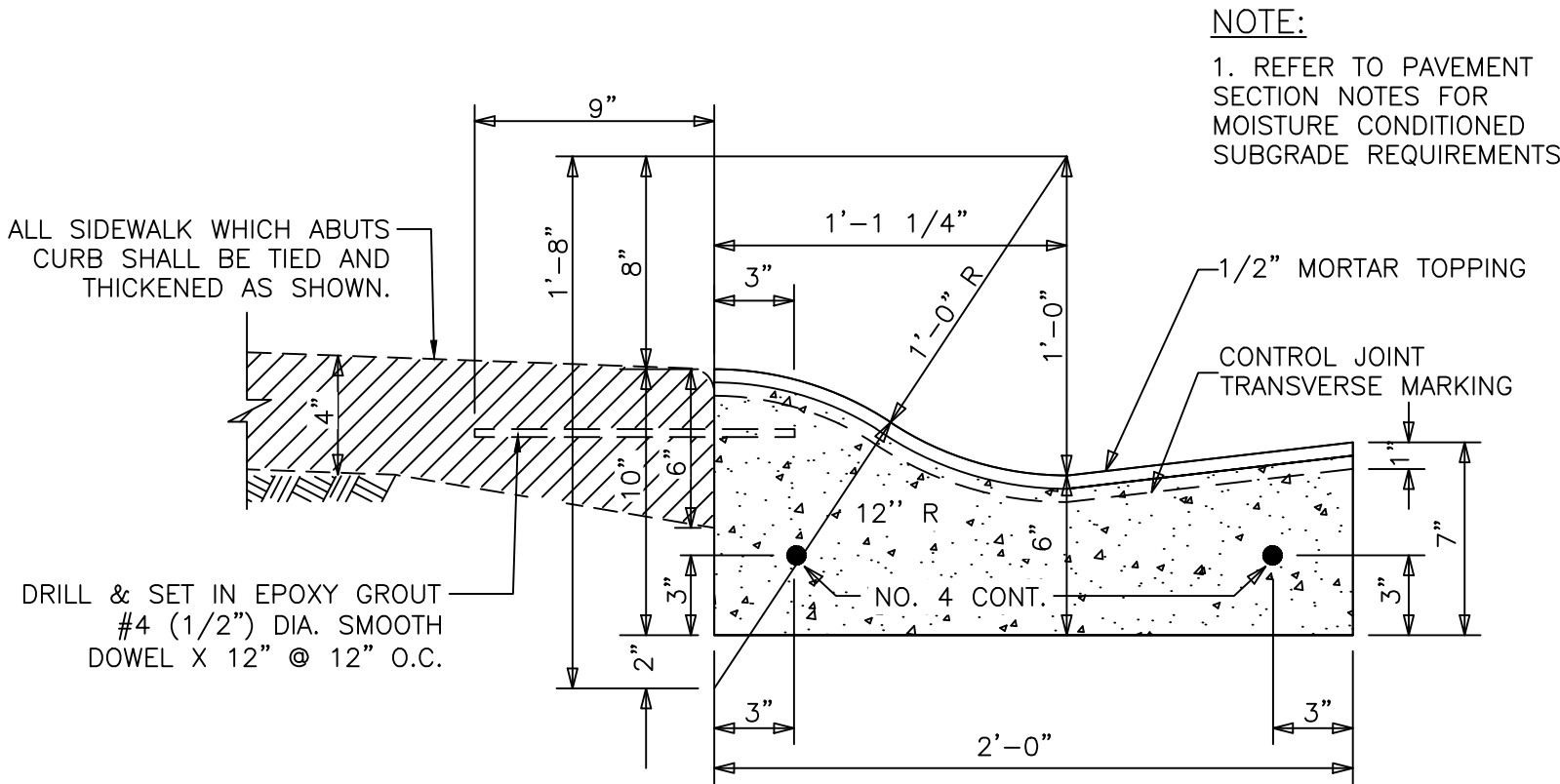
PROPOSED PAVEMENT RE-PAIR CURB AND
GUTTER-SIDEWALK SUBGRADE DETAIL
SCALE: N.T.S.



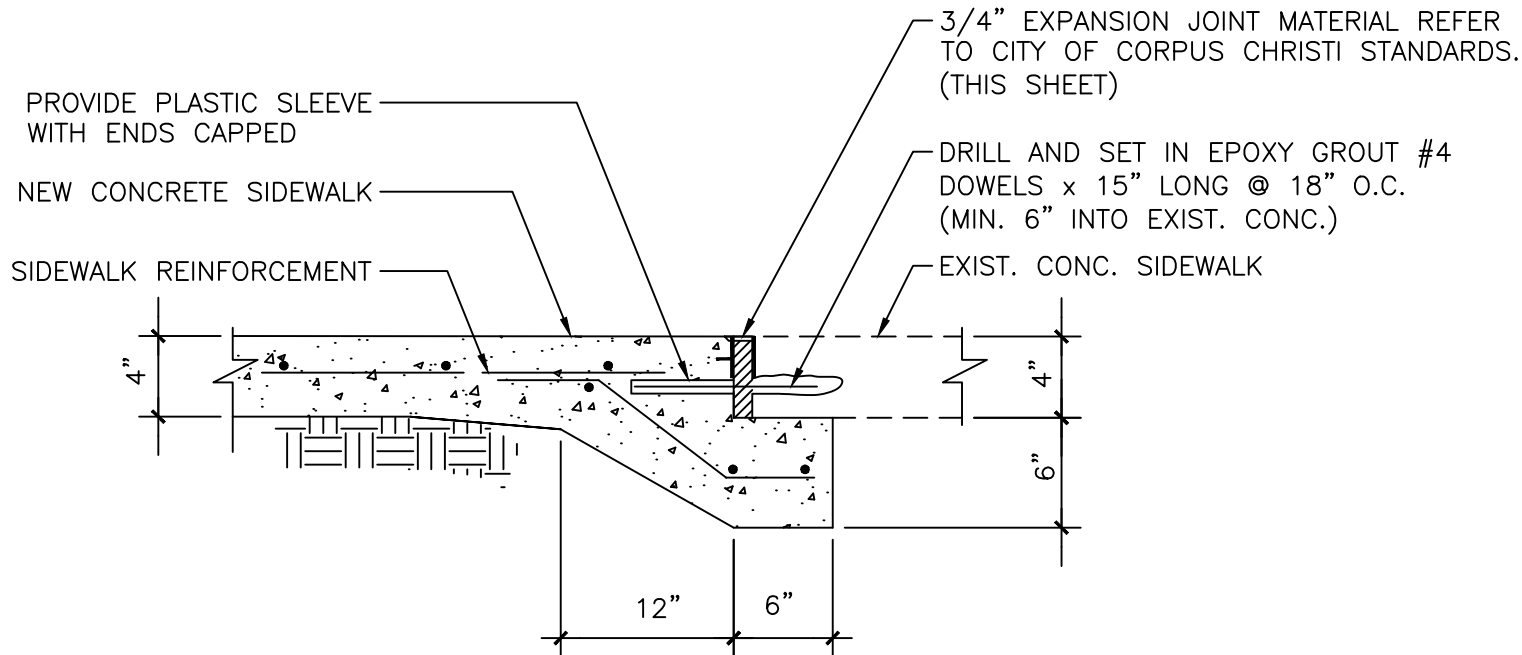
SIDEWALK CAP SEAL DETAIL
NEW CONC. TO NEW CONC.
NOT TO SCALE



SIDEWALK CAP SEAL DETAIL
NEW CONC. TO EXIST. CONC.
NOT TO SCALE



ROADWAY 4" CURB & GUTTER DETAIL
NOT TO SCALE



NEW TO EXISTING
SIDEWALK TIE-IN DETAIL
NOT TO SCALE

CURB & GUTTER AND HEADER CURB NOTES:

- ALL CONCRETE CLASS "A", 3,000 P.S.I. ALL STEEL GRADE 60 fy = 60,000 P.S.I., MIN.
- TRANSVERSE GROOVES 1/8" WIDE BY 1/2" DEEP SHALL BE MADE IN ALL CURB & GUTTER AND HEADER CURB AT 10' O.C. (MAXIMUM).
- 3/4" THICK EXPANSION JOINTS SHALL BE PROVIDED AT 39'-0" CENTERS* (MAXIMUM). REINFORCEMENT SHALL CONSIST OF THE NO. 4 DOWELS X 15" LONG SPACED AS INDICATED. THE NO. 4 DOWEL SHALL BE EXTENDED ACROSS THE JOINT 9 INCHES AND THIS END SHALL BE SLEEVED WITH ENDS CAPPED.
- WHERE NEW CURB & GUTTER OR HEADER CURB JOINS EXISTING CURB & GUTTER, TRANSITION THE LAST 10' OF THE NEW TO MATCH THE OLD IN SHAPE.
- SUBGRADE THICKNESS UNDER CONCRETE CURB AND GUTTER TO BE AS SPECIFIED IN THE PROJECT DETAILS.
- FINAL ACCEPTANCE OF THE PROJECT SHALL BE CONTINGENT UPON THE CONTRACTOR PROVIDING THE CITY WITH A CERTIFICATION LETTER, FROM THE TEXAS DEPARTMENT OF LICENSING AND REGULATION (TDLR), POLICY AND STANDARDS DIVISION, ARCHITECTURAL BARRIERS SECTION, THAT ALL ADA (AMERICANS WITH DISABILITIES ACT) HANDICAP IMPROVEMENTS, AS CONSTRUCTED, COMPLY WITH THE TEXAS ACCESSIBILITY STANDARDS (TAS) OF THE ARCHITECTURAL BARRIERS ACT ARTICLE 9102, TEXAS CIVIL STATUTES.
- AT LEAST 2' OF THE AREA BEHIND THE CURB SHALL BE BACKFILLED AND COMPACTED (MINIMUM 95% STANDARD PROCTOR DENSITY) IN ACCORDANCE WITH THE SPECIFICATIONS AS SOON AS POSSIBLE AND NO LATER THAN 48 HOURS OF REMOVAL OF FORMS (OR SOONER IN THE EVENT OF INCLEMENT WEATHER) IN ORDER TO PROTECT THE MOISTURE OF THE PAVEMENT STRUCTURE.

SIDEWALK NOTES:

- ALL EXPANSION JOINTS TO BE 3/4" REDWOOD EXPANSION BOARD, UNLESS OTHERWISE NOTED.
- ALL CONCRETE CLASS "A", 3,000 psi. ALL STEEL, GRADE 60, fy = 60,000 psi.
- CONCRETE TO RECEIVE BROOM FINISH.
- TRANSVERSE CONTRACTION JOINTS 1/8": WIDE BY 1/2" DEEP SHALL BE CUT IN ALL SIDEWALKS AT 5'-0" INTERVALS (TYPICAL) OR THE INTERVALS SHALL BE SPACED TO MATCH THE WIDTH OF THE SIDEWALK.
- SUBGRADE UNDER SIDEWALK TO BE MOISTURE CONDITIONED.

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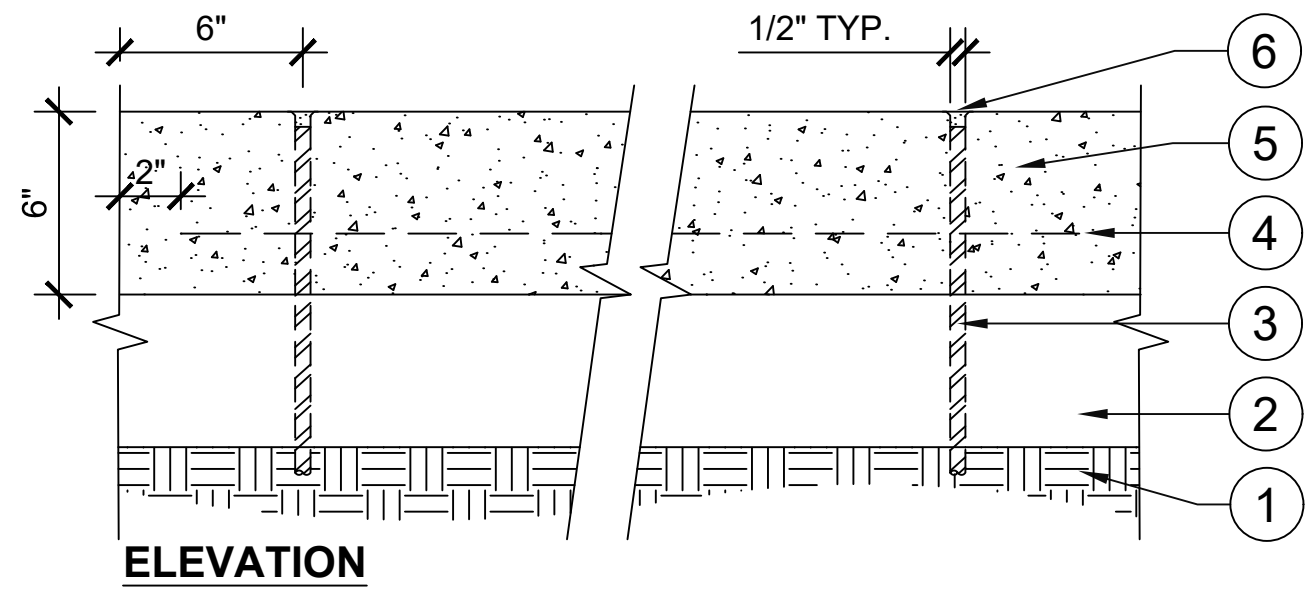
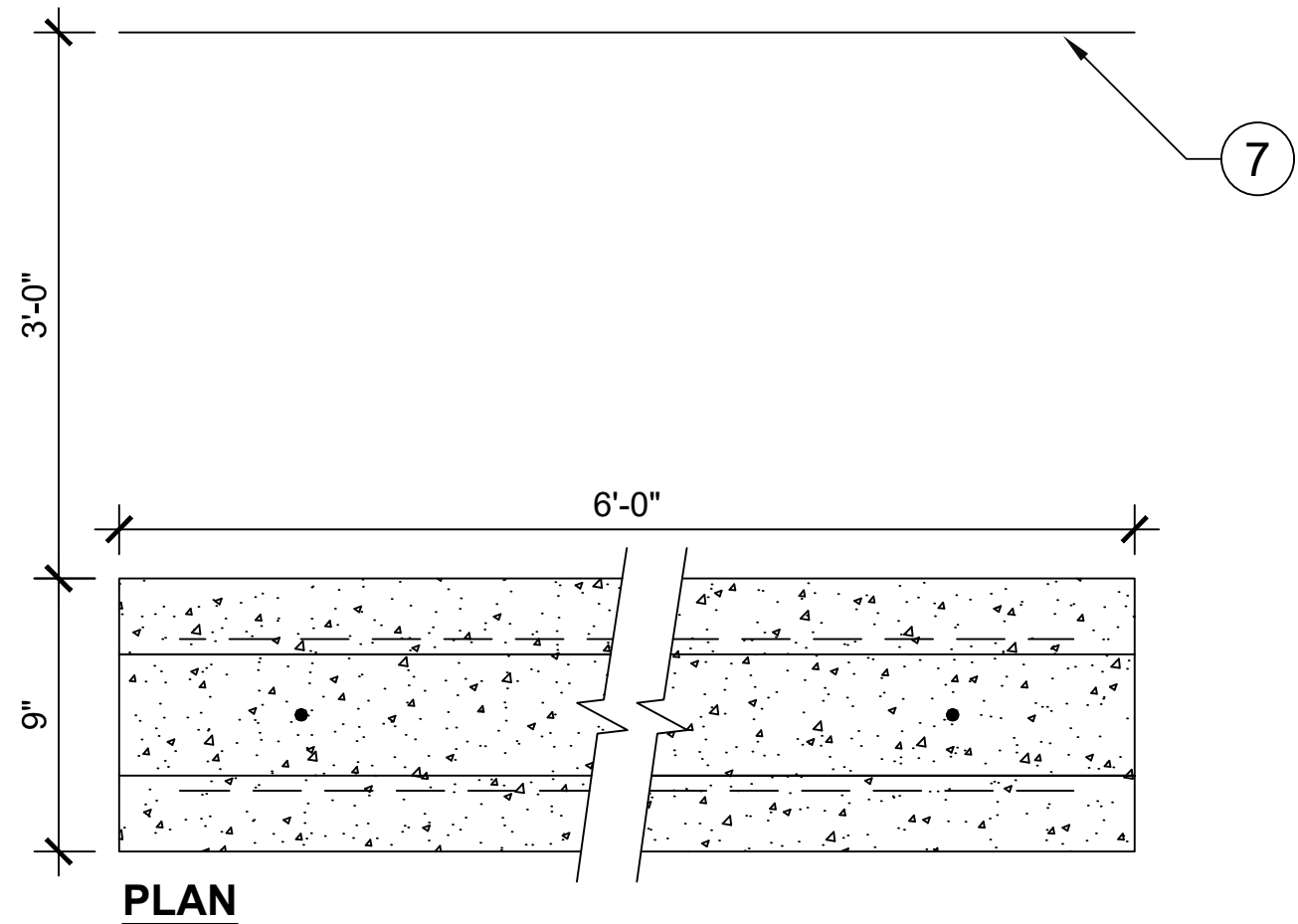
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PROJECT NO.: 46201.004
ISSUED: AS SHOWN
DRAWN BY: AR & RB
CHECKED BY: TE
SCALE: NTS
SHEET TITLE

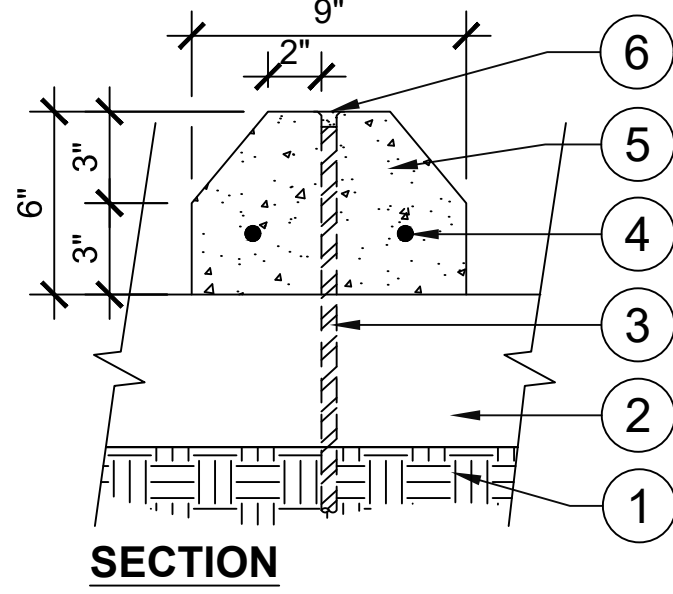
CIVIL DETAILS
(1 OF 4)

C7.0

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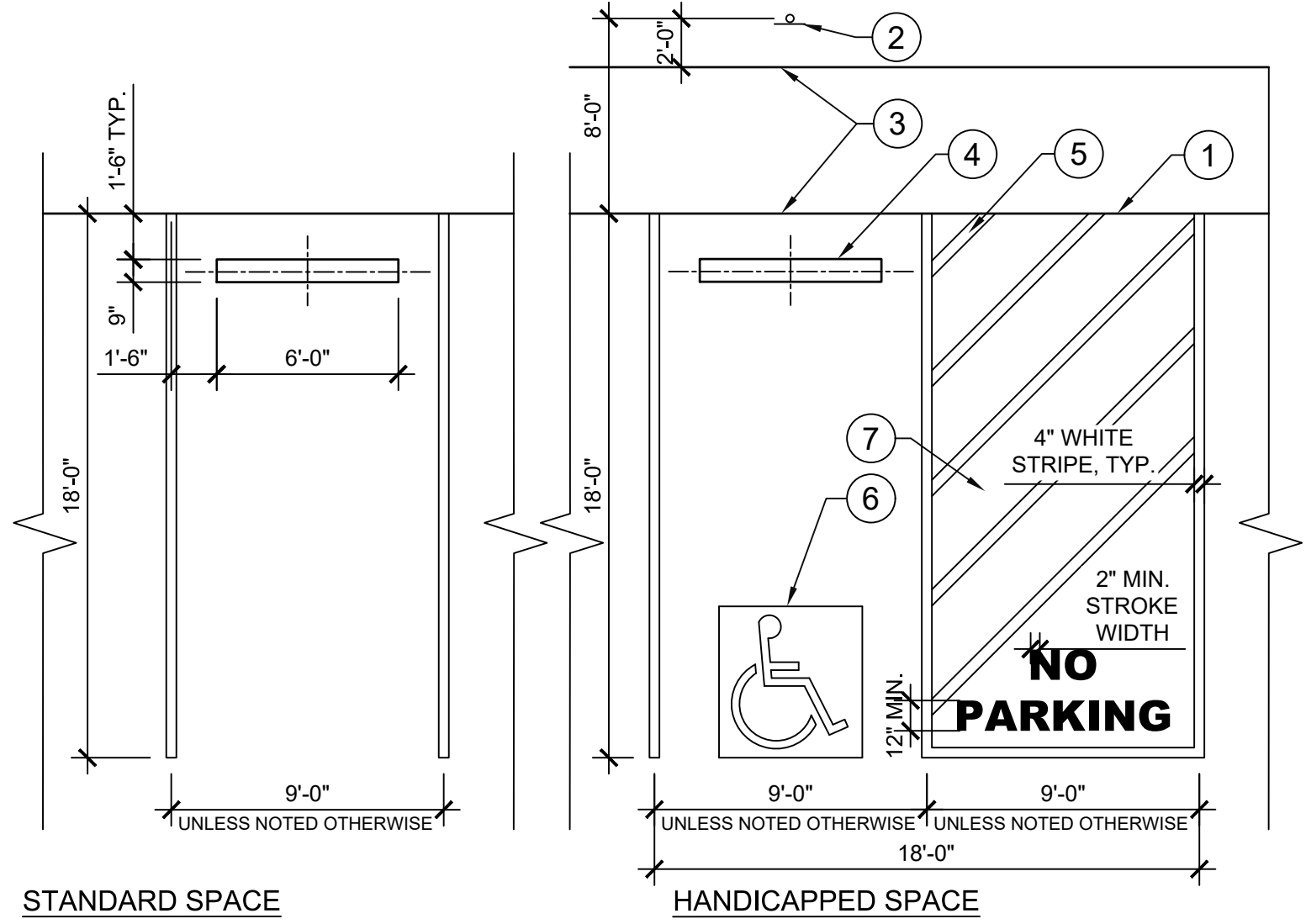


- KEY:**
- 1 SUBGRADE PER CONCRETE PAVING SECTION DETAIL
 - 2 CONCRETE PAVEMENT PER PAVING SECTION DETAIL
 - 3 1/2" DIA. STEEL DOWEL, 5'-0" O.C. CENTERED ON LENGTH OF WHEEL STOP, 2'-0" MIN. DEPTH
 - 4 #4 CONT. REBAR
 - 5 PRECAST CONCRETE - 3000 PSI MIN. (28-DAY STRENGTH)
 - 6 1/2" DEPTH SEALANT
 - 7 EDGE OF PAVEMENT



CONCRETE WHEEL STOP

N.T.S.



STANDARD SPACE

HANDICAPPED SPACE

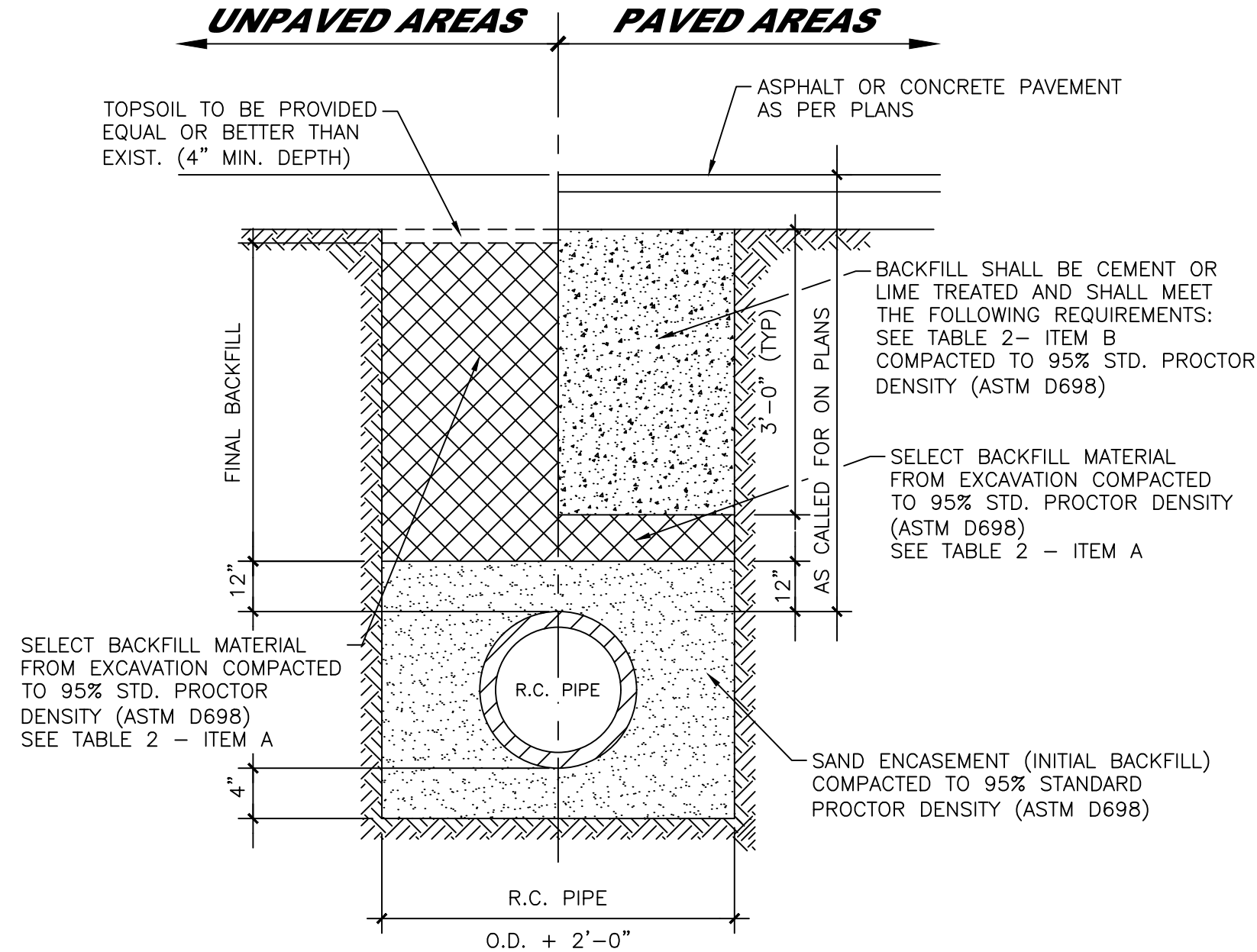
TYPICAL PARKING SPACE LAYOUT

N.T.S.

- KEY:**
- 1 EDGE OF PAVEMENT
 - 2 HANDICAPPED PARKING SIGN WHERE NOTED ON PLANS. REFER TO DETAIL
 - 3 ADJACENT SIDEWALK
 - 4 WHEEL STOPS, CENTERED IN PARKING SPACES WHERE NOTED ON PLANS. REFER TO DETAIL
 - 5 4" WIDE DIAGONAL WHITE PAINT @ 12" C/C, PRODUCT 'XX'
 - 6 STANDARD HANDICAPPED SYMBOL TO BE PAINTED ON PAVEMENT WITH NONREFLECTIVE PAINT, PRODUCT 'XX'
 - 7 9' AT VAN ACCESSIBLE SPACES

NOTES

- RAMP ACCESS AND SURFACE SLOPES SHALL COMPLY WITH ADAS/AS REQUIREMENTS.
- EACH HANDICAPPED PARKING SPACE SHALL BE SIGNED IN ACCORDANCE WITH TASI/ADA REQUIREMENTS.



TRENCH BACKFILL FOR STORM WATER PIPES

NOT TO SCALE

GENERAL NOTES FOR BACKFILL

TABLE 1
BEDDING AND INITIAL BACKFILL
(BELOW PIPE TO 12" ABOVE PIPE)

ALL BEDDING AND INITIAL BACKFILL SHALL CONSIST OF GRANULAR MATERIAL CONSISTING OF EITHER NATURAL SAND OR SANDY GRAVEL, OR MATERIAL PRODUCED BY CRUSHING OF NATURAL STONE OR GRAVEL. SEWER LINES:

- EXCAVATIONS <20FT. DEEP AND ABOVE WATER TABLE, USE MATERIAL MEETING THE FOLLOWING CRITERIA.

MEETING REQUIREMENTS OF ASTM D2487 FOR:

SP GP
SW GW
SP-SM GP-GM
SW-SM GW-GM

AND IN ADDITION:

PASSING 1/2" SIEVE - 100%
PASSING #4 SIEVE - 30% MINIMUM
PLASTICITY INDEX (PI) - NP TO 10 MAX.

- IN DEEP EXCAVATIONS (>20') OR BELOW WATER TABLE, USE CRUSHED STONE OR CRUSHED GRAVEL MEETING GRADATION OF:

- CONCRETE COARSE AGGREGATE; TxDOT ITEM 421; GRADE 2, 3, OR 4.

FOR ALL UTILITIES:

- FOR PIPE DIAMETER EQUAL TO OR SMALLER THAN 16", USE 4" MINIMUM BEDDING UNDER PIPE.
- FOR PIPE DIAMETER GREATER THAN 16", USE 6" MINIMUM BEDDING UNDER PIPE.

TABLE 2
FINAL BACKFILL
(GREATER THAN 12" ABOVE PIPE)

UNPAVED AREAS

- FOR 12" ABOVE PIPE TO BOTTOM OF TOPSOIL BACKFILL SHALL BE APPROVED SELECT MATERIAL FROM THE EXCAVATION; OR IMPORTED MATERIAL; ALL TO BE FREE OF ROCKS, DEBRIS, OR ANY CLUMPS GREATER THAN 1-1/2" IN DIAMETER; LOOSE LIFTS TO BE PLACED 6" MAX WITH 4" MAX COMPACTED THICKNESS.

COMPACT MATERIAL TO 95% STD. PROCTOR (D698).

MOISTURE TO BE ADJUSTED TO BETWEEN -2% AND +3% OF OPTIMUM.

- TOPSOIL TO BE PROVIDED EQUAL OR BETTER THAN EXISTING; AND MATCH EXISTING TOPSOIL DEPTH. (4" MIN.) COMPACT TO FIX CONFLICT TO EXISTING ADJACENT TOPSOIL. (CONSTRUCTION TO BE PERFORMED BY "DOUBLE DITCH" METHOD TOP SOIL SALVAGED TO BE PLACED ON TOP)

PAVED AREAS

- FOR 12" ABOVE PIPE TO 3' BELOW BOTTOM OF ROAD BASE: BACKFILL SHALL BE SELECT MATERIAL FROM EXCAVATION OR TO BE IMPORTED MATERIAL AND SHALL MEET THE FOLLOWING:

LLS40
PI 7-20
% PASSING #200 SIEVE ≥30%
NO CLUMPS > 1-1/2" DIA.
MOISTURE -2% TO +3%
COMPACT TO 95% D698 STD PROCTOR

LOOSE LIFTS OF 6" MAX WITH 4" MAX COMPACTED THICKNESS OR IF SELECT MATERIAL FROM EXCAVATION DOES NOT MEET REQUIREMENTS, THEN USE CEMENT STABILIZED SAND SEE TABLE 2-ITEM B

- FOR 3' BELOW BOTTOM OF ROAD BASE TO BOTTOM OF ROAD BASE:

BACKFILL SHALL BE CEMENT OR LIME TREATED AND SHALL MEET THE FOLLOWING REQUIREMENTS:

SAND GRADATION:
MINIMUM % PASSING

1-3/4" 100%
3/4" 85%
#4 60%

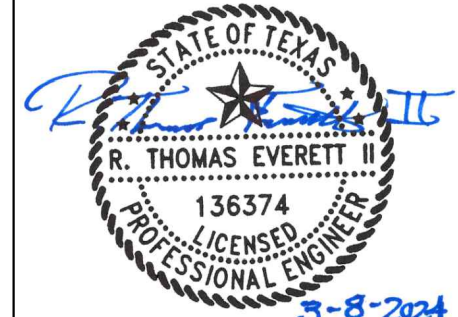
COMPACT TO 95% OF D698. MOISTURE TO BE ADJUSTED TO BETWEEN 0% AND +4% OF OPTIMUM.

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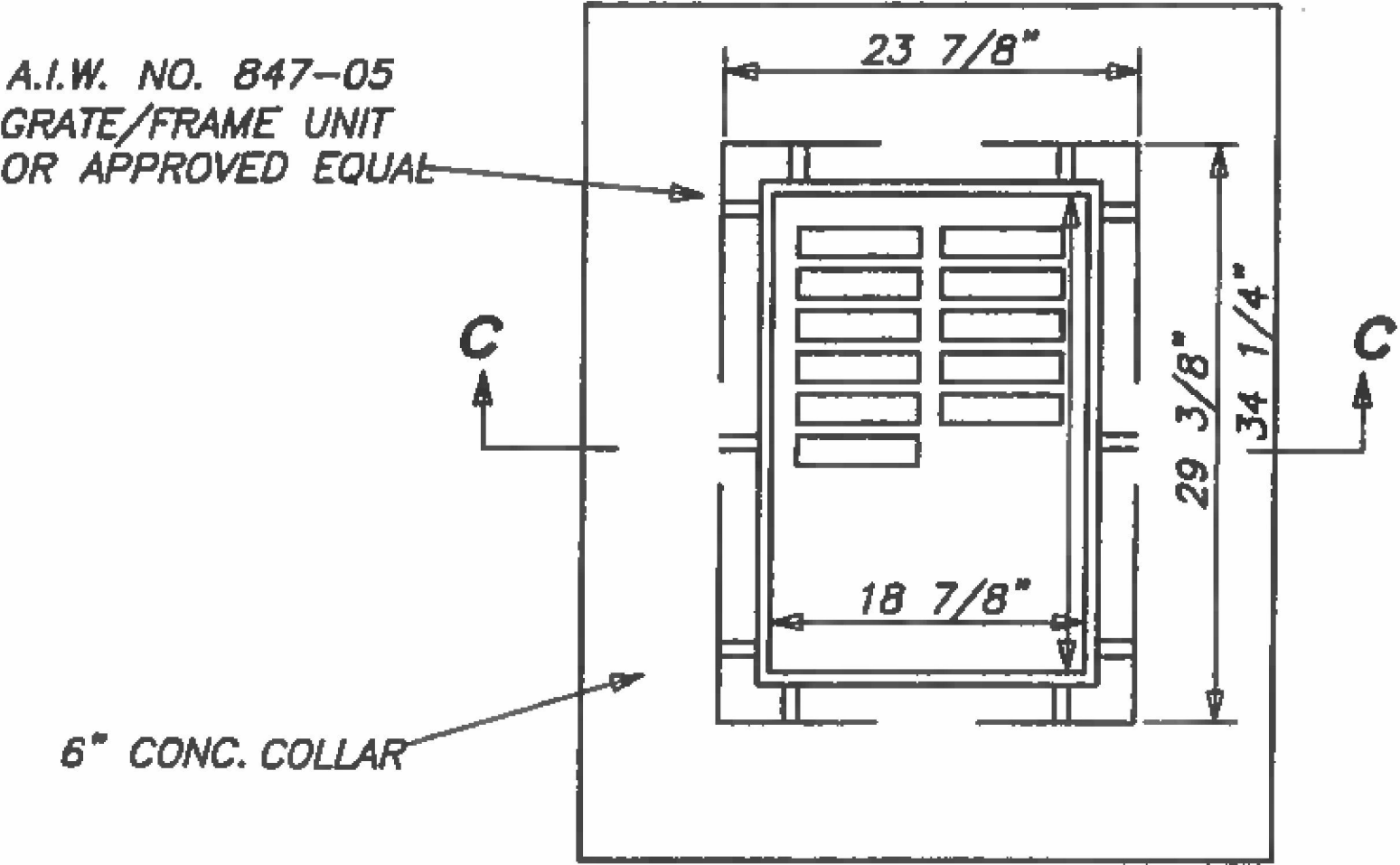
100%
BID SET

PROJECT NO.: 46201.004
ISSUED: AS SHOWN
DRAWN BY: AR & RB
CHECKED BY: TE
SCALE: NTS
SHEET TITLE

CIVIL DETAILS
(2 OF 4)

C7.1

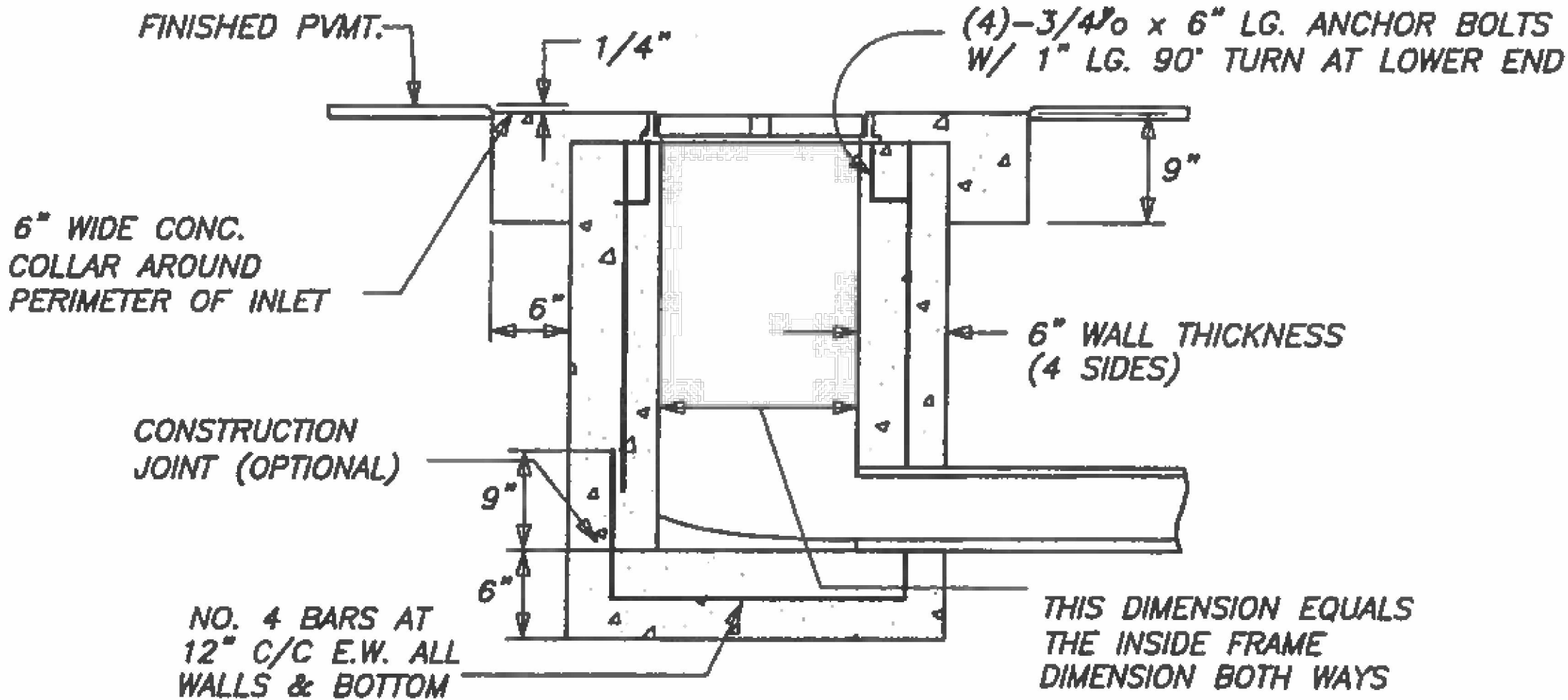
FILE NAME: A:\6000s\46201\004\LD\ADD\Sheets\C-PLAN\STRM-46201.004.dwg DATE: March 8, 2024, TIME: 6:26 PM, USER: ah4853 AVO: 46201.004



NOTE:
1. APPROVED EQUAL GRATE INLET
SHALL BE PEDESTRIAN SAFE.

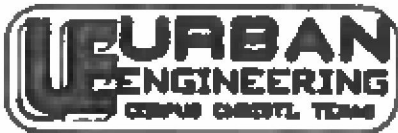
PLAN OF STANDARD GRATE INLET

NOT TO SCALE

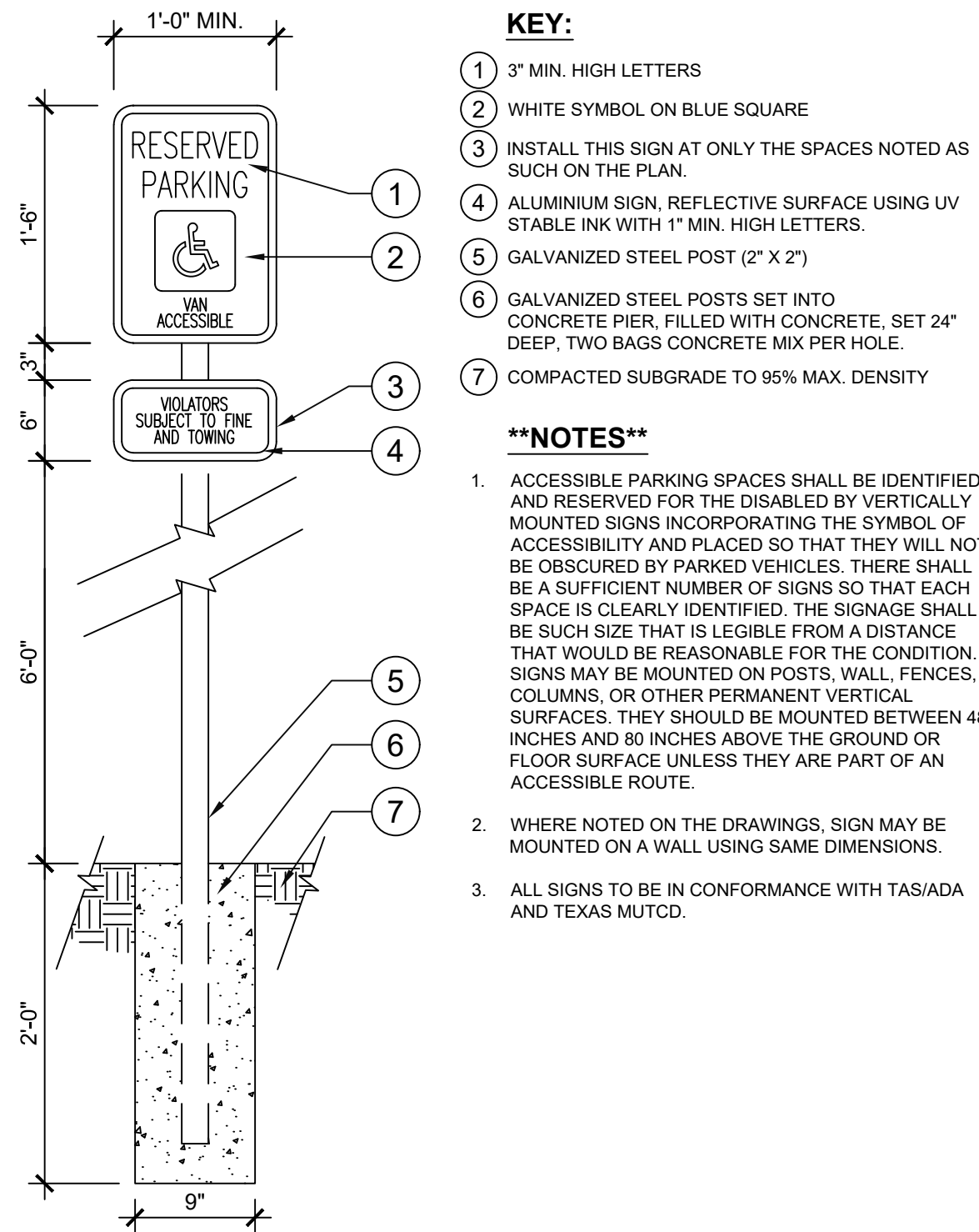


SECTION C-C

NOT TO SCALE



STORM DRAINAGE DESIGN MANUAL
PORT ARANSAS, TEXAS
STANDARD STORM SEWER
DETAIL VIII-2
SINGLE GRATE INLET
SEPT., 2005
U.E. JOB NO. 6100.A5.00 PAGE: 36



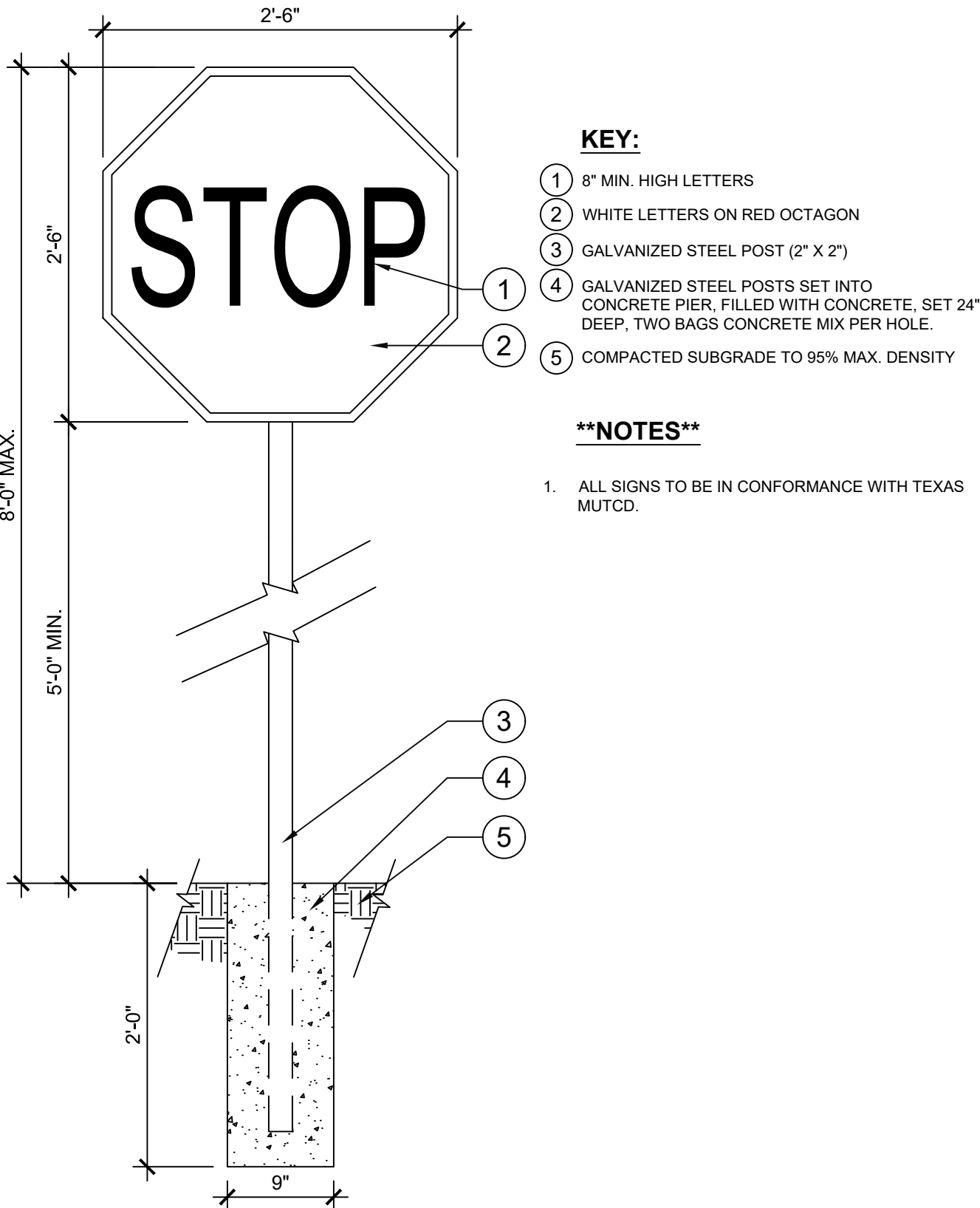
- KEY:**
- 3" MIN. HIGH LETTERS
 - WHITE SYMBOL ON BLUE SQUARE
 - INSTALL THIS SIGN AT ONLY THE SPACES NOTED AS SUCH ON THE PLAN.
 - ALUMINIUM SIGN, REFLECTIVE SURFACE USING UV STABLE INK WITH 1" MIN. HIGH LETTERS.
 - GALVANIZED STEEL POST (2" X 2")
 - GALVANIZED STEEL POSTS SET INTO CONCRETE PIER, FILLED WITH CONCRETE, SET 24" DEEP, TWO BAGS CONCRETE MIX PER HOLE.
 - COMPACTED SUBGRADE TO 95% MAX. DENSITY

- **NOTES****
- ACCESSIBLE PARKING SPACES SHALL BE IDENTIFIED AND RESERVED FOR THE DISABLED BY VERTICALLY MOUNTED SIGNS INCORPORATING THE SYMBOL OF ACCESSIBILITY AND PLACED SO THAT THEY WILL NOT BE OBSCURED BY PARKED VEHICLES. THERE SHALL BE A SUFFICIENT NUMBER OF SIGNS SO THAT EACH SPACE IS CLEARLY IDENTIFIED. THE SIGNAGE SHALL BE SUCH SIZE THAT IS LEGIBLE FROM A DISTANCE THAT WOULD BE REASONABLE FOR THE CONDITION. SIGNS MAY BE MOUNTED ON POSTS, WALL, FENCES, COLUMNS, OR OTHER PERMANENT VERTICAL SURFACES. THEY SHOULD BE MOUNTED BETWEEN 48 INCHES AND 80 INCHES ABOVE THE GROUND OR FLOOR SURFACE UNLESS THEY ARE PART OF AN ACCESSIBLE ROUTE.
 - WHERE NOTED ON THE DRAWINGS, SIGN MAY BE MOUNTED ON A WALL USING SAME DIMENSIONS.
 - ALL SIGNS TO BE IN CONFORMANCE WITH TASIADA AND TEXAS MUTCD.

FRONT ELEVATION

ACCESSIBLE SIGNAGE (DETAIL PROVIDED BY CITY)

N.T.S.



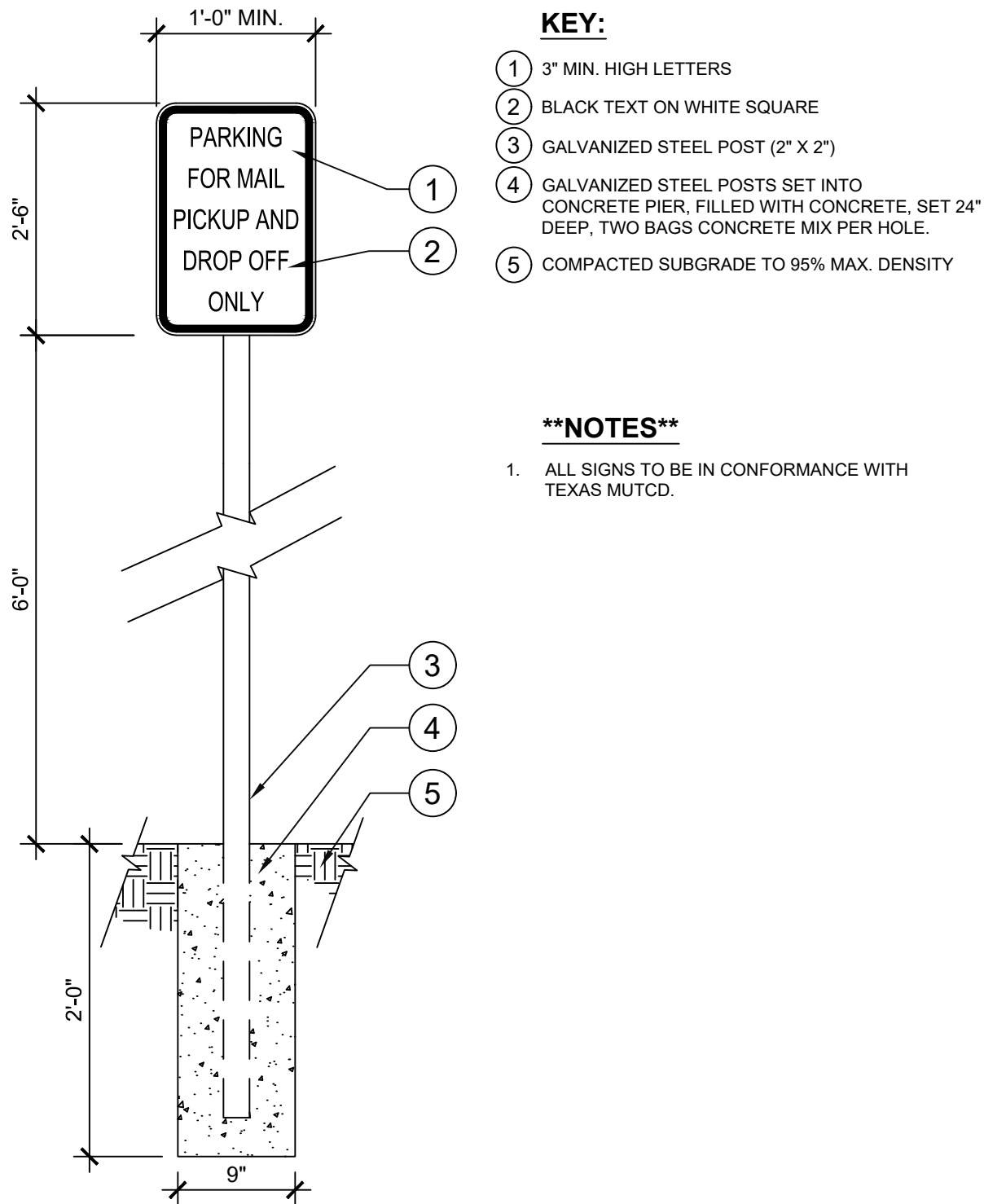
- KEY:**
- 8" MIN. HIGH LETTERS
 - WHITE LETTERS ON RED OCTAGON
 - GALVANIZED STEEL POST (2" X 2")
 - GALVANIZED STEEL POSTS SET INTO CONCRETE PIER, FILLED WITH CONCRETE, SET 24" DEEP, TWO BAGS CONCRETE MIX PER HOLE.
 - COMPACTED SUBGRADE TO 95% MAX. DENSITY

- **NOTES****
- ALL SIGNS TO BE IN CONFORMANCE WITH TEXAS MUTCD.

FRONT ELEVATION

STOP SIGN

N.T.S.



- KEY:**
- 3" MIN. HIGH LETTERS
 - BLACK TEXT ON WHITE SQUARE
 - GALVANIZED STEEL POST (2" X 2")
 - GALVANIZED STEEL POSTS SET INTO CONCRETE PIER, FILLED WITH CONCRETE, SET 24" DEEP, TWO BAGS CONCRETE MIX PER HOLE.
 - COMPACTED SUBGRADE TO 95% MAX. DENSITY

- **NOTES****
- ALL SIGNS TO BE IN CONFORMANCE WITH TEXAS MUTCD.

FRONT ELEVATION

DO NOT BLOCK SIGN (DETAIL PROVIDED BY CITY)

N.T.S.

Old Town Port Aransas
Oakes Ave E
Old Town Port Aransas
Church St

STREET SIGN

N.T.S.

- NOTE:
- CONTRACTOR TO SUBMIT DESIGN FOR CITY APPROVAL PRIOR TO INSTALLATION
 - REF. PLAN FOR PROPOSED LOCATION

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REVISION NO.	DATE	DESCRIPTION



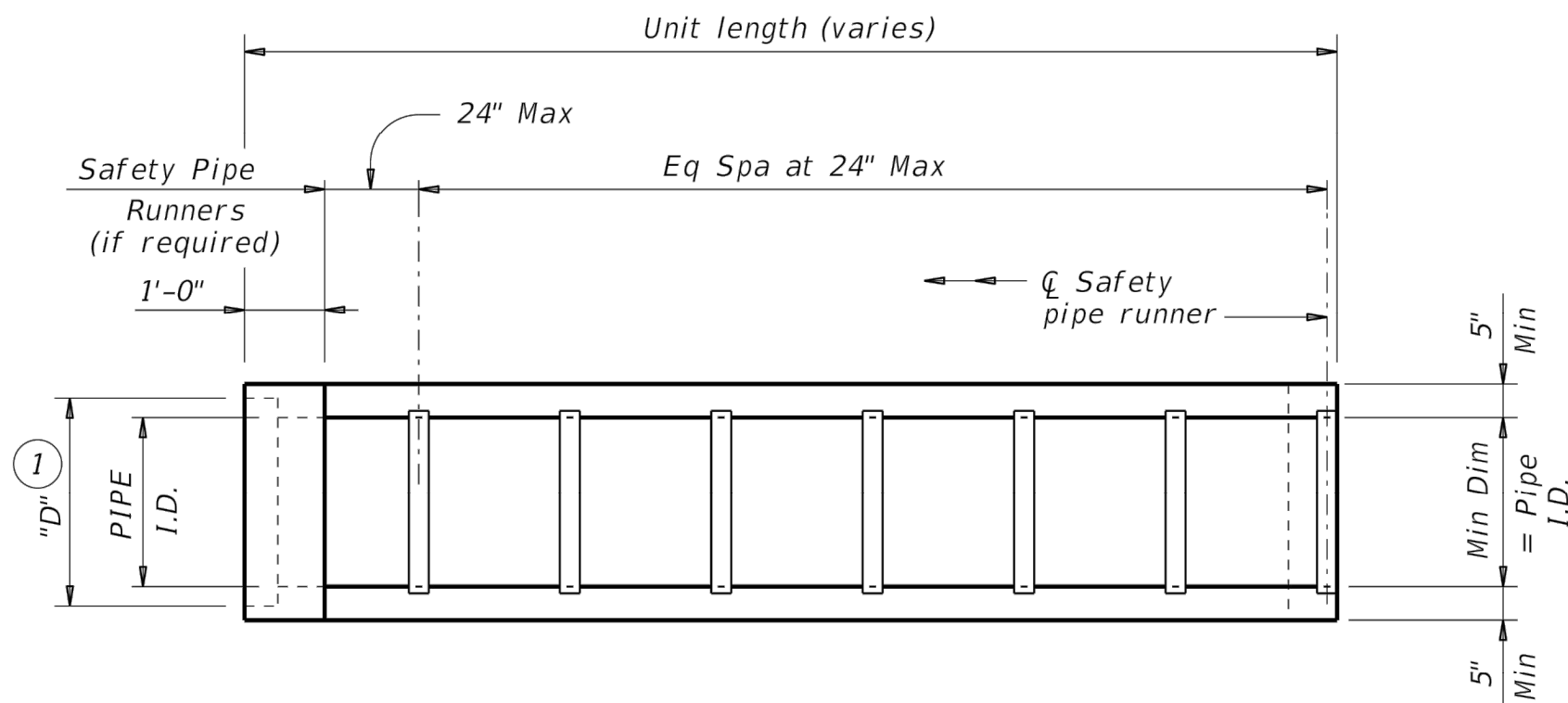
**100%
BID SET**

PROJECT NO.: 46201.004
ISSUED: AS SHOWN
DRAWN BY: AR & RB
CHECKED BY: TE
SCALE: NTS
SHEET TITLE
CIVIL DETAILS
(3 OF 4)

C7.2

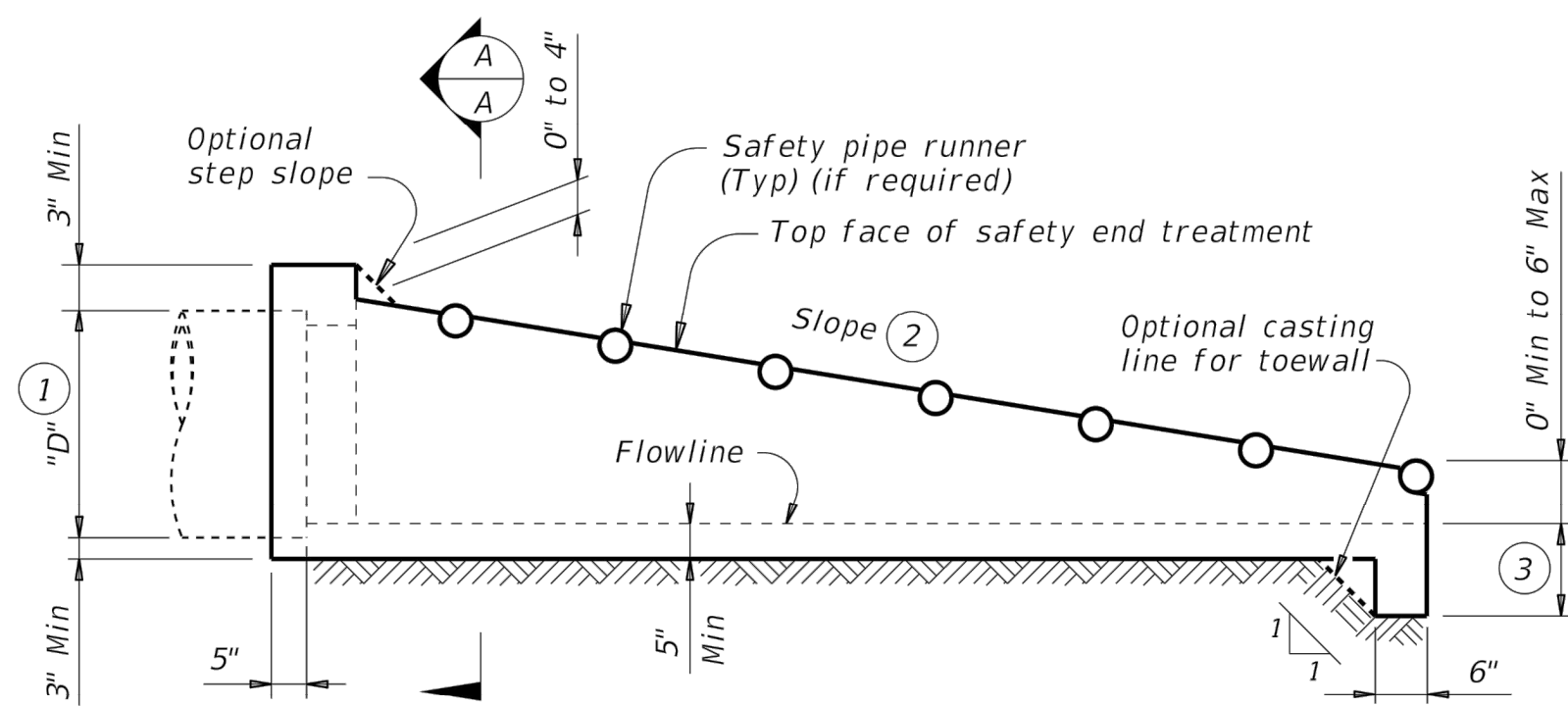
DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act." No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

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FILE:



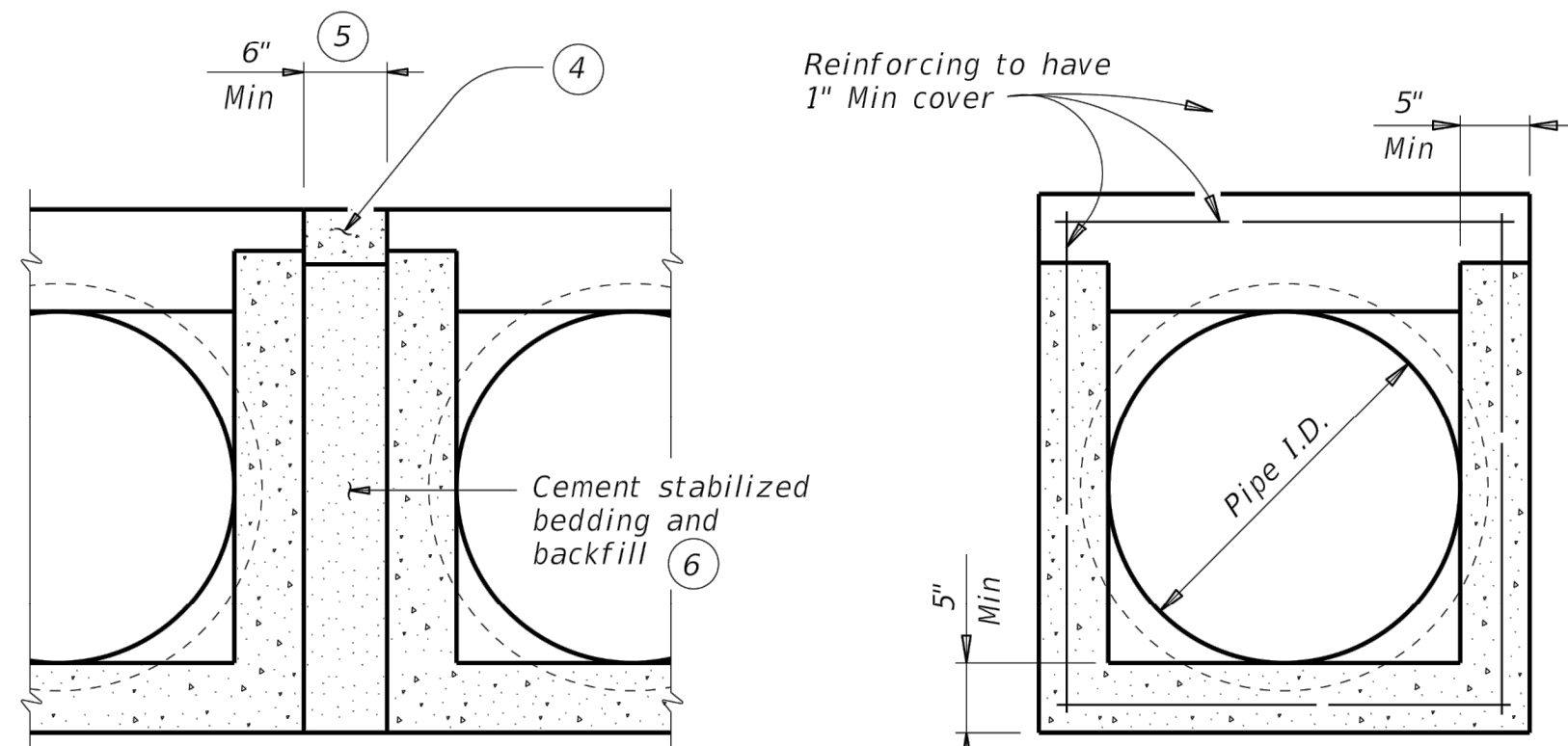
PLAN

(Showing bell end connection.)



LONGITUDINAL ELEVATION

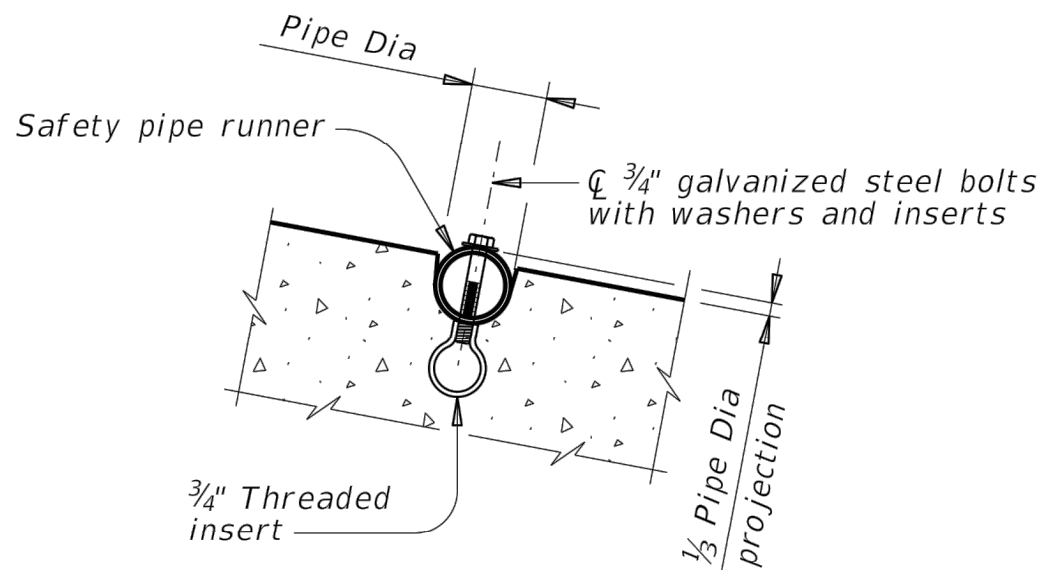
(Showing bell end connection.)



MULTIPLE PIPE INSTALLATION

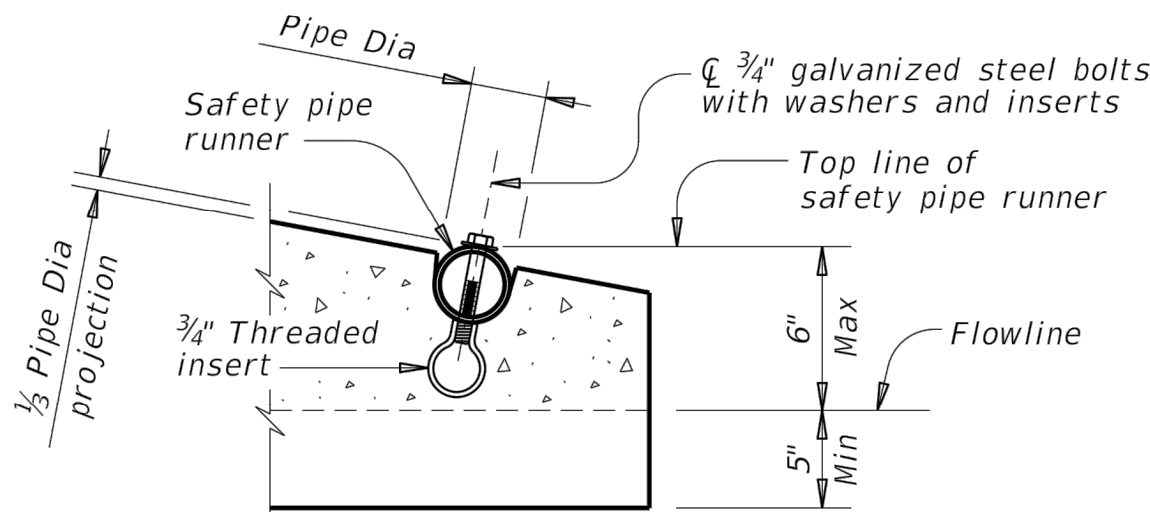
OPTION WITH SQUARE BOTTOM

SECTION A-A

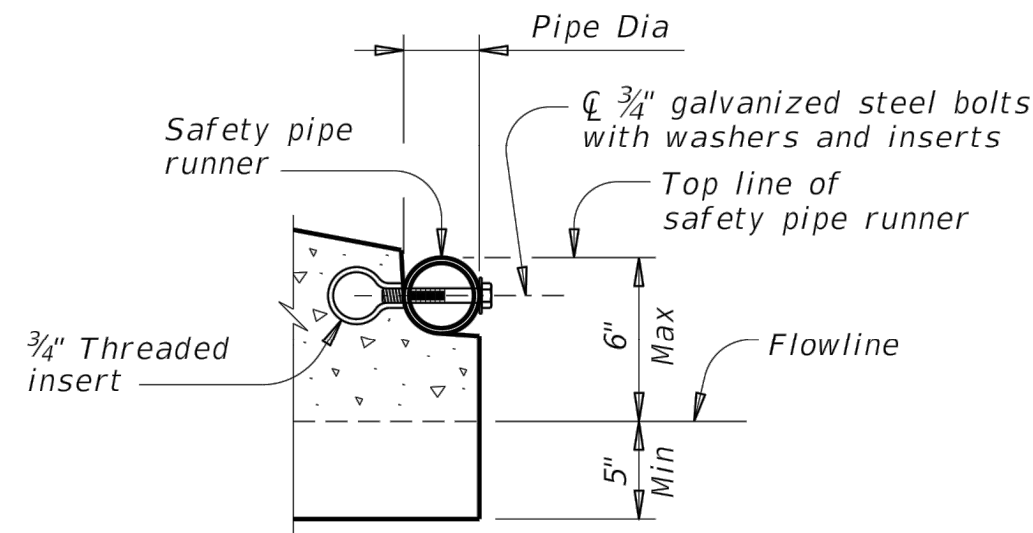


INSTALLATION DETAIL FOR SAFETY PIPE RUNNERS

(If required)



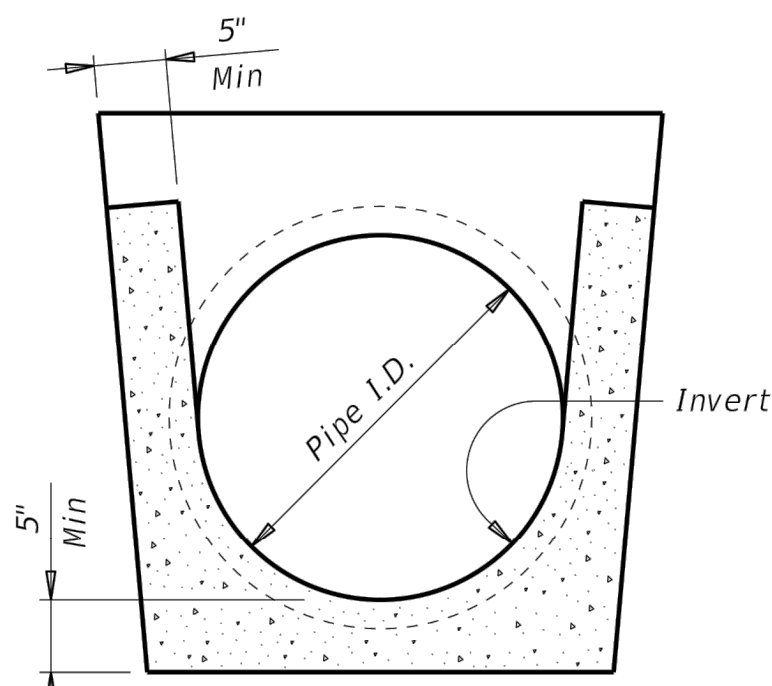
OPTION A



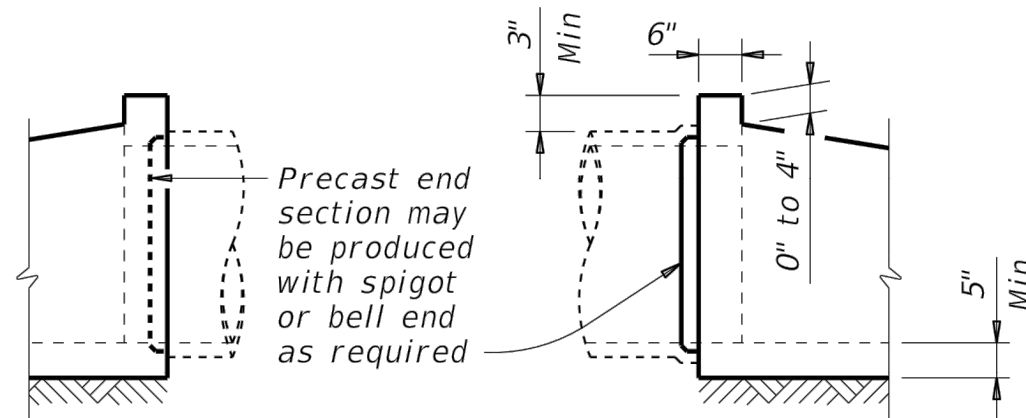
OPTION B

END DETAILS FOR INSTALLATION OF SAFETY PIPE RUNNERS

(If required)



OPTION WITH INVERT BOTTOM



OPTIONAL JOINT FOR RCP

(Showing joint between RCP and precast safety end treatment.)

REQUIREMENTS FOR CULVERT PIPES AND SAFETY PIPE RUNNERS

Pipe I.D.	RCP Wall "B" Thickness	TP Wall Thickness	"D"	Slope	Min Length	Pipe Runners Required		Required Pipe Runner Size		
						Single Pipe	Multiple Pipe	Nominal Dia.	O.D.	I.D.
12"	2"	1.15"	17.00"	6:1	4' - 9"	No	Yes, for > 2 pipes	3" STD	3.500"	3.068"
15"	2 1/4"	1.30"	20.50"	6:1	6' - 5"	No	Yes, for > 2 pipes	3" STD	3.500"	3.068"
18"	2 1/2"	1.60"	24.00"	6:1	8' - 0"	No	Yes, for > 2 pipes	3" STD	3.500"	3.068"
24"	3"	1.95"	31.00"	6:1	11' - 3"	No	Yes, for > 2 pipes	3" STD	3.500"	3.068"
30"	3 1/2"	2.65"	38.50"	6:1	14' - 8"	No	Yes	4" STD	4.500"	4.026"
36"	4"	2.75"	45.50"	6:1	17' - 11"	Yes	Yes	4" STD	4.500"	4.026"
42"	4 1/2"	2.7"	52.50"	6:1	21' - 2"	Yes	Yes	4" STD	4.500"	4.026"

- Dimension "D" is based on reinforced concrete pipe (RCP) meeting the requirements of ASTM C-76, Class III, (RCP Wall "B" thickness). Adjust "D" for any other wall thickness used. For thermoplastic pipe (TP) take into account the annular space requirements for grouted connections.
- Slope as shown elsewhere in the plans. Slope of 6:1 or flatter is required for vehicle safety.
- Toewall to be used only when dimension is shown elsewhere in the plans.
- Fill the top 4" of void between precast end treatments with concrete riprap. Concrete riprap is considered subsidiary to the Item 467, "Safety End Treatment."
- Adjust clear distance between pipes to provide for the minimum distance between safety end treatments.
- Provide cement stabilized bedding and backfill in accordance with the Item 400, "Excavation and Backfill for Structures." Bedding and backfill is considered subsidiary to the Item 467, "Safety End Treatment." When concrete riprap is specified around the safety end treatment, backfill as directed by Engineer.
- Thermoplastic pipe wall thickness may vary. Adjust accordingly. Thermoplastic pipe requires the safety end treatments to have a bell end for grouted connections.

GENERAL NOTES:

Precast safety end treatment for reinforced concrete pipe (RCP), and thermoplastic pipe (TP) may be used for TYPE II end treatment as specified in Item "Safety End Treatment."

When precast safety end treatment is used as a Contractor's alternate to mitered RCP, riprap will not be required unless noted otherwise on the plans.

Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of steel reinforcing in riprap concrete unless noted otherwise.

Manufacture this product in accordance with Item 467, "Safety End Treatment" except as noted below :

A. Provide minimum reinforcing of #4 at 6" (Grade 40) or #4 at 9" (Grade 60) each way or 6"x6" - D12 x D12 or 5"x5" - D10 x D10 welded wire reinforcement (WWR).

B. For precast (steel formed) sections, provide Class "C" concrete (f'c = 3,600 psi).

At the option and expense of the Contractor the next larger size of safety end treatment may be furnished; as long as the "D" dimension cast is that of the required size of pipe.

Pipe runners are designed for a traversing load of 10,000 Lbs at yield as recommended by Research Report 280-2F, "Safety Treatment of Roadside Parallel-Drainage Structures", Texas Transportation Institute, March 1981.

Provide pipe runners meeting the requirements of ASTM A53 (Type E or S, Grade B), ASTM A500 (Grade B), or API 5LX52.

Galvanize all steel components except reinforcing steel after fabrication. Repair galvanizing damaged during transport or construction in accordance with the specifications.

Connect RCP using the Optional Joint for RCP detail shown or in accordance with Item 464, "Reinforced Concrete Pipe." Connect TP by grouting. See Pipe and Box Grouted Connections (PBG) standard for grouted connections with TP and precast safety end treatment.



PRECAST SAFETY END TREATMENT TYPE II ~ PARALLEL DRAINAGE

PSET-SP

FILE: CD-PSET-SP-21.dgn	DN: RLW	CK: KLR	DW: JTR	CK: GAF
©TxDOT February 2020	CONT	SECT	JOB	HIGHWAY
REVISIONS 12-21: Added 42" TP	DIST	COUNTY	SHEET NO.	

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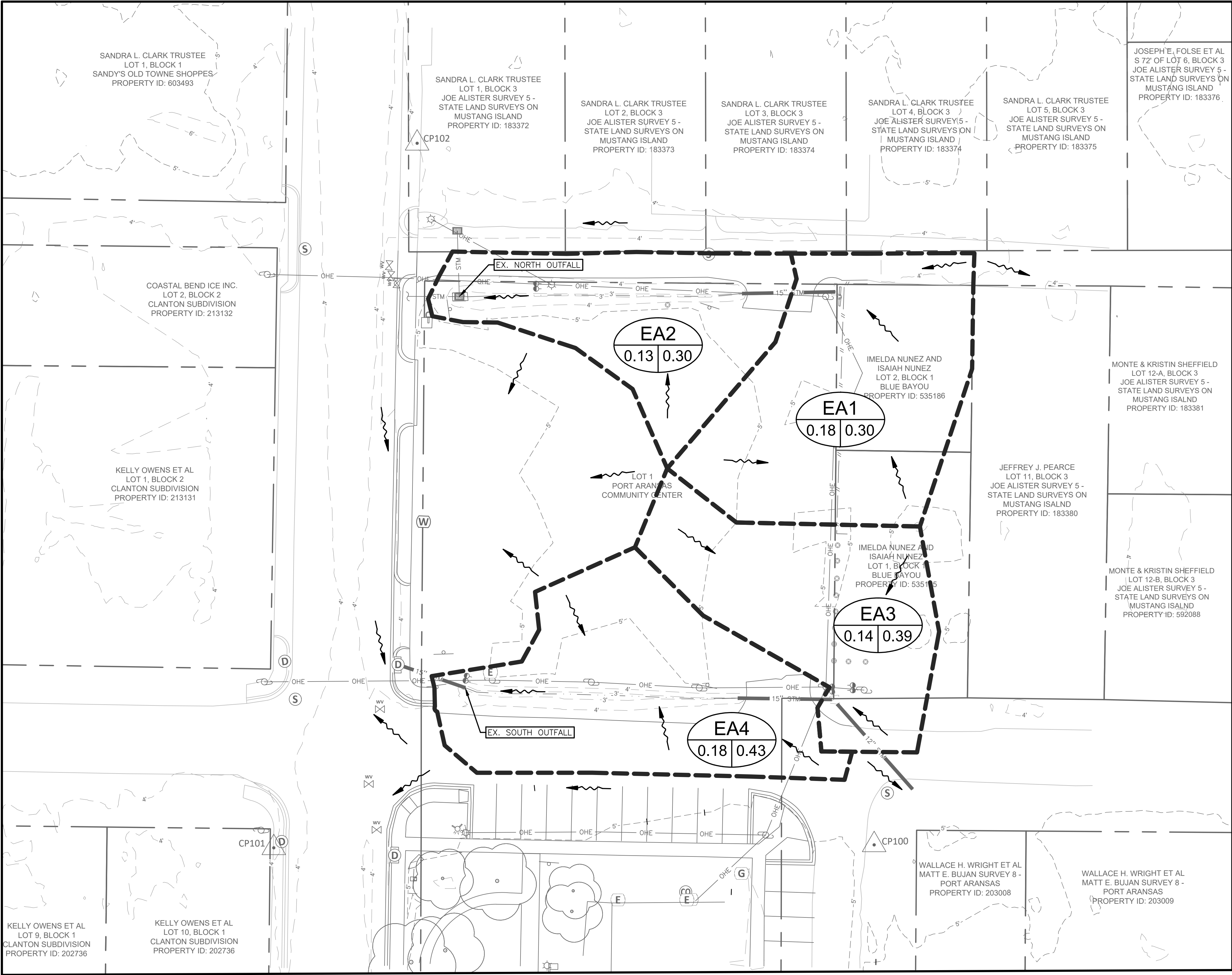
REVISION NO.	DATE	DESCRIPTION



100%
BID SET

PROJECT NO.: 46201.004
ISSUED: AS SHOWN
DRAWN BY: AR & RB
CHECKED BY: TE
SCALE: NTS
SHEET TITLE
CIVIL DETAILS
(4 OF 4)

C7.3



Existing Drainage Areas						
Drainage Area No.	Area (ft²)	Area (Acre)	C	Tc (min)	I (2-year) (in/hr)	Q (CFS)
EA1	7904	0.18	0.30	10	6.168	0.34
EA2	5459	0.13	0.30	10	6.168	0.23
North Outfall						0.57
EA3	6094	0.14	0.39	10	6.168	0.34
EA4	7889	0.18	0.43	10	6.168	0.48
South Outfall						0.81

LEGEND:

- EXISTING DRAINAGE BASIN
- EXISTING MAJOR CONTOUR AND ELEVATION (FT)
- EXISTING MINOR CONTOUR AND ELEVATION (FT)
- DRAINAGE FLOW DIRECTION

DRAINAGE AREA NO.

XX

XX

XX

C-VALUE

DRAINAGE AREA (ACRES)

NOTES:

- FLOODPLAIN: THE TRACT SHOWN HEREON LIES WITHIN ZONE AE (ELEV. 8').THE DETERMINED BASE FLOOD ELEVATION IS THE WATER-SURFACE ELEVATION OF THE 1% ANNUAL CHANCE FLOOD AS IDENTIFIED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, NATIONAL FLOOD INSURANCE PROGRAM, AS SHOWN ON MAP NO. 48355C0385G, EFFECTIVE DATE OCTOBER 13, 2022.
- THE DRAINAGE CALCULATIONS SHOWN ON THIS SHEET WERE COMPLETED USING THE RATIONAL METHOD.
- ONLY THE 2-YEAR STORM EVENT WAS ANALYZED FOR THIS PROJECT, PER THE CITY OF PORT ARANSAS STORM DRAINAGE DESIGN MANUAL (SDDM).
- INTENSITY VALUES USED FOR THE RATIONAL METHOD CALCULATIONS TO DETERMINE RUNOFF WERE DERIVED FROM THE CITY SDDM, SECTION III. DETERMINATION OF THE STORM RUNOFF, ITEM D. RAINFALL INTENSITY.
- A MINIMUM TIME OF CONCENTRATION (Tc) OF TEN (10) MINUTES WAS UTILIZED.
- THE RUNOFF COEFFICIENTS (C-VALUES) WERE DERIVED FROM THE CITY SDDM, SECTION III. DETERMINATION OF STORM RUNOFF, ITEM C. RUNOFF COEFFICIENTS.
- EXISTING CONTOURS SHOWN BEYOND THE PROJECT SITE ARE APPROXIMATE AND BASED ON LIDAR DATA.

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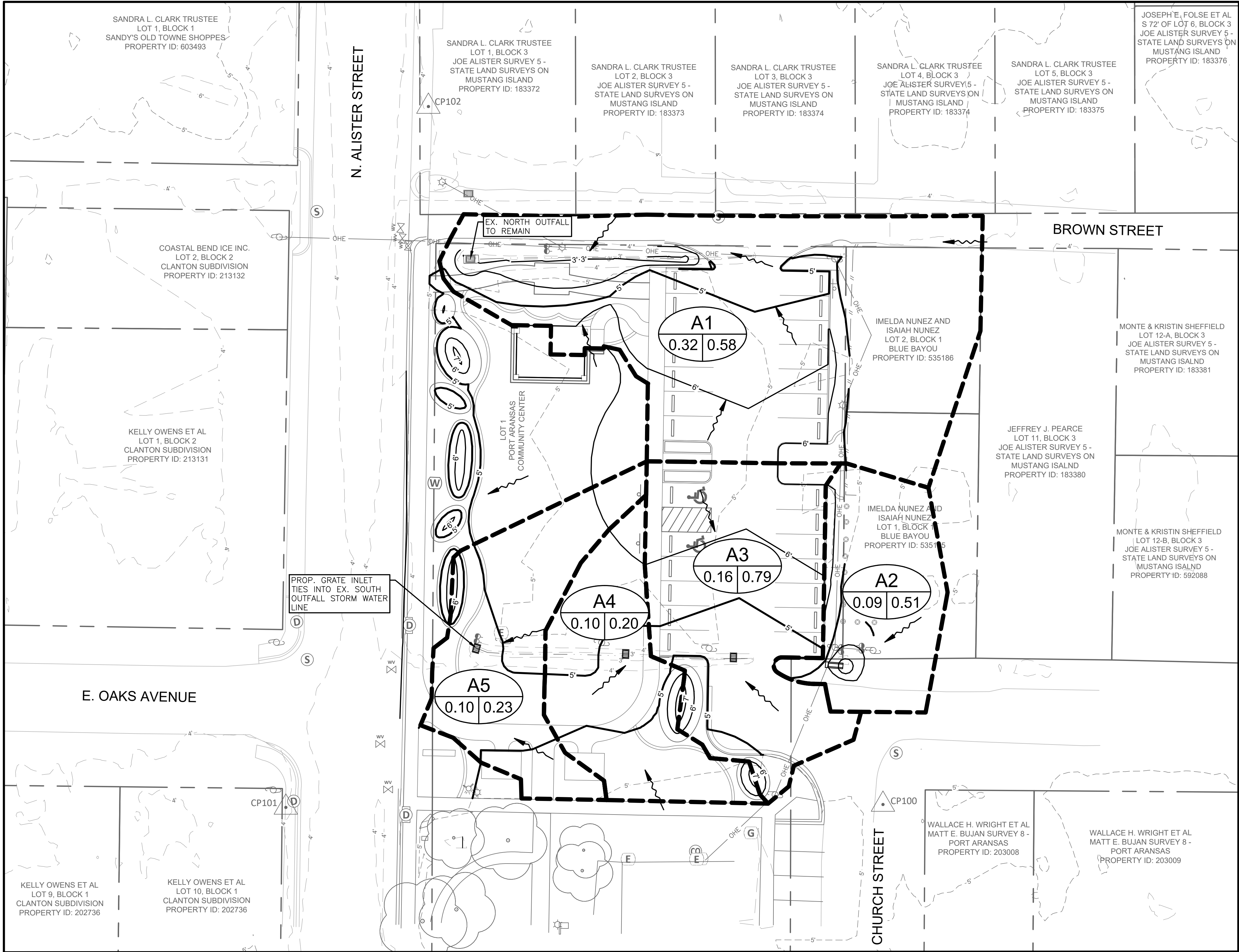
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REVISION NO.	DATE	DESCRIPTION

**100%
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PROJECT NO.: 46201.004
ISSUED: AS SHOWN
DRAWN BY: AR & RB
CHECKED BY: TE
SCALE: 1" = 20'
SHEET TITLE
EXISTING DRAINAGE
AREA MAP

C8.0



Grate Inlet No.	Drainage Area No.	Inlet Size	Net Area (ft²)	Clogging Factor	True Net Area (ft²)	Head (ft)	Q (CFS)
I-2	A-3	1.5'X2.5'	1.81	0.6	1.08	0.1	1.10
I-3	A-4	1.5'X2.5'	1.81	0.6	1.08	0.1	1.10
I-4	A-5	1.5'X2.5'	1.81	0.6	1.08	0.1	1.10

Proposed Drainage Areas						
Drainage Area No.	Area (ft²)	Area (Acre)	C	Tc (min)	I (2-year) (in/hr)	Q (CFS)
A1	14090	0.32	0.58	10	6.168	1.15
North Outfall						1.15
A2	3740	0.09	0.51	10	6.168	0.27
A3	7110	0.16	0.79	10	6.168	0.79
A4	4217	0.10	0.20	10	6.168	0.12
A5	4526	0.10	0.23	10	6.168	0.15
South Outfall						1.33

LEGEND:

- PROPOSED DRAINAGE BASIN
- PROPOSED MAJOR CONTOUR AND ELEVATION (FT)
- PROPOSED MINOR CONTOUR AND ELEVATION (FT)
- EXISTING CONTOUR AND ELEVATION (FT)
- EXISTING CONTOUR AND ELEVATION (FT)
- DRAINAGE FLOW DIRECTION

DRAINAGE AREA NO.

XX

XX

XX

C-VALUE

DRAINAGE AREA (ACRES)

NOTES:

- FLOODPLAIN: THE TRACT SHOWN HEREON LIES WITHIN ZONE AE (ELEV. 8'), THE DETERMINED BASE FLOOD ELEVATION IS THE WATER-SURFACE ELEVATION OF THE 1% ANNUAL CHANCE FLOOD AS IDENTIFIED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, NATIONAL FLOOD INSURANCE PROGRAM, AS SHOWN ON MAP NO. 48355C0385G, EFFECTIVE DATE OCTOBER 13, 2022.
- THE DRAINAGE CALCULATIONS SHOWN ON THIS SHEET WERE COMPLETED USING THE RATIONAL METHOD.
- ONLY THE 2-YEAR STORM EVENT WAS ANALYZED FOR THIS PROJECT, PER THE CITY OF PORT ARANSAS STORM DRAINAGE DESIGN MANUAL (SDDM).
- INTENSITY VALUES USED FOR THE RATIONAL METHOD CALCULATIONS TO DETERMINE RUNOFF WERE DERIVED FROM THE CITY SDDM, SECTION III, DETERMINATION OF THE STORM RUNOFF, ITEM D, RAINFALL INTENSITY.
- A MINIMUM TIME OF CONCENTRATION (Tc) OF TEN (10) MINUTES WAS UTILIZED.
- THE RUNOFF COEFFICIENTS (C-VALUES) WERE DERIVED FROM THE CITY SDDM, SECTION III, DETERMINATION OF STORM RUNOFF, ITEM C, RUNOFF COEFFICIENTS.
- EXISTING CONTOURS SHOWN BEYOND THE PROJECT SITE ARE APPROXIMATE AND BASED ON LIDAR DATA.
- THE GRATE INLET HYDRAULIC CAPACITY WAS CALCULATED BY A FORMULA DERIVED FROM THE CITY SDDM, SECTION IV, STORM DRAINAGE DESIGN, ITEM F, HYDRAULIC CAPACITY OF INLETS, NUMBER 2, GRATE INLETS.
- THE IMPERVIOUS COVER FOR THIS PROPOSED SITE APPEARS TO BE LESS THAN THE PREVIOUS SITE'S IMPERVIOUS COVER, WHICH INCLUDED A PARKING LOT AND A BUILDING. NO UP-SIZING OF EXISTING STORM WATER LINES ARE PROPOSED.

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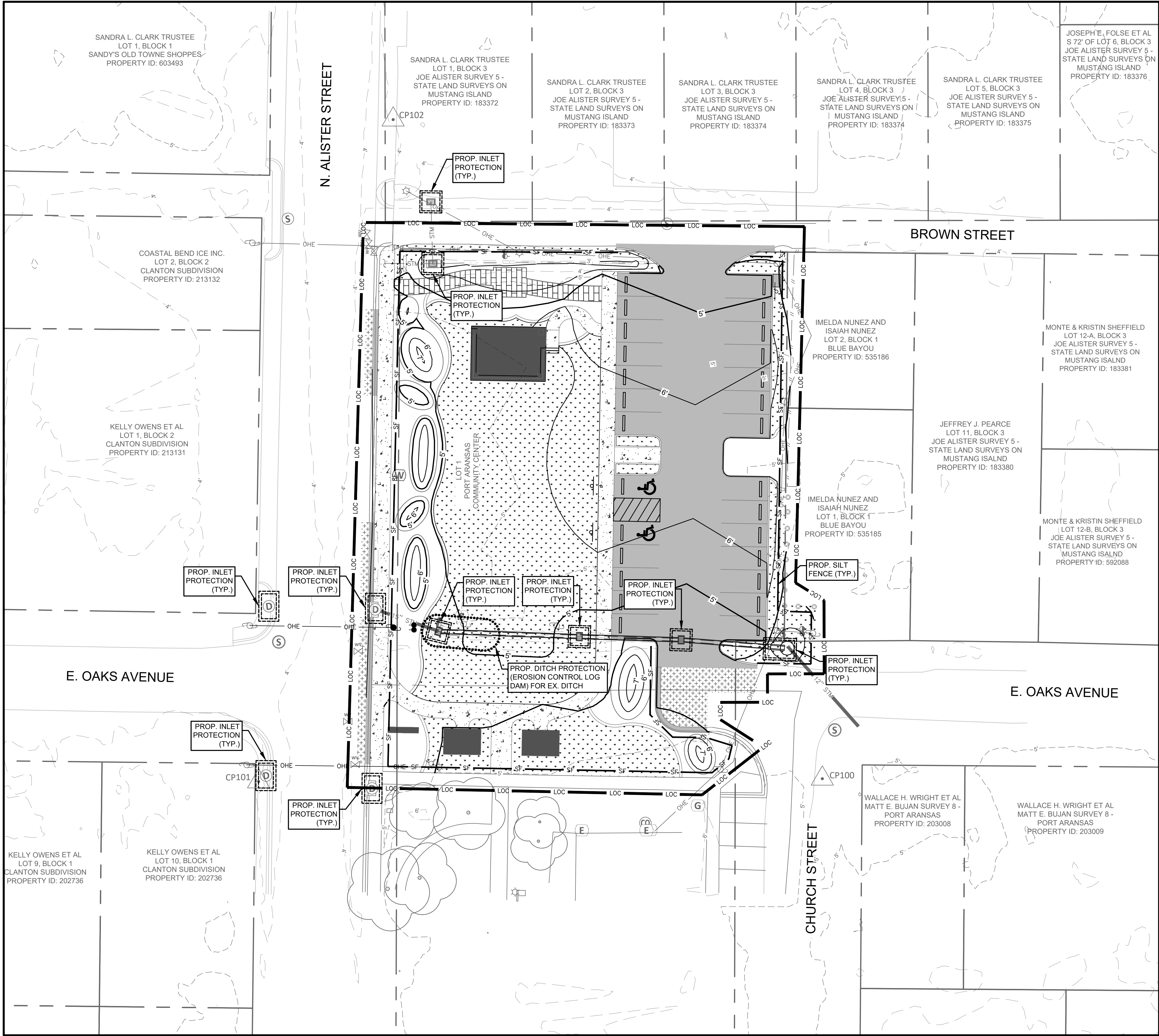
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PROJECT NO.: 46201.004
ISSUED: AS SHOWN
DRAWN BY: AR & RB
CHECKED BY: TE
SCALE: 1" = 20'
SHEET TITLE
**PROPOSED
DRAINAGE AREA MAP**

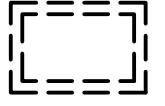
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0 10 20 40
SCALE IN FEET


LEGEND:



PROPOSED INLET PROTECTION
(EROSION CONTROL LOGS)



PROPOSED DITCH PROTECTION
(EROSION CONTROL LOG DAM)



LOC

LIMITS OF CONSTRUCTION



SF**NOTES:**

1. THE CONTRACTOR HAS THE AUTHORITY TO ADD AND/OR MODIFY EROSION/SEDIMENTATION CONTROLS ON SITE TO KEEP PROJECT IN-COMPLIANCE WITH THE RULES AND REGULATIONS

2. EROSION CONTROL LOG SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

3. ONCE CONSTRUCTION IS COMPLETE, EROSION CONTROL LOGS SHALL BE REMOVED.

4. THE CONTRACTOR SHALL CLEAN UP SPOILS THAT MIGRATE ONTO ALL ROADS, PRIVATE AND PUBLIC, A MINIMUM OF ONCE DAILY.

5. AREAS OF WORK SHALL BE PROTECTED FROM TRAFFIC DURING CONSTRUCTION.

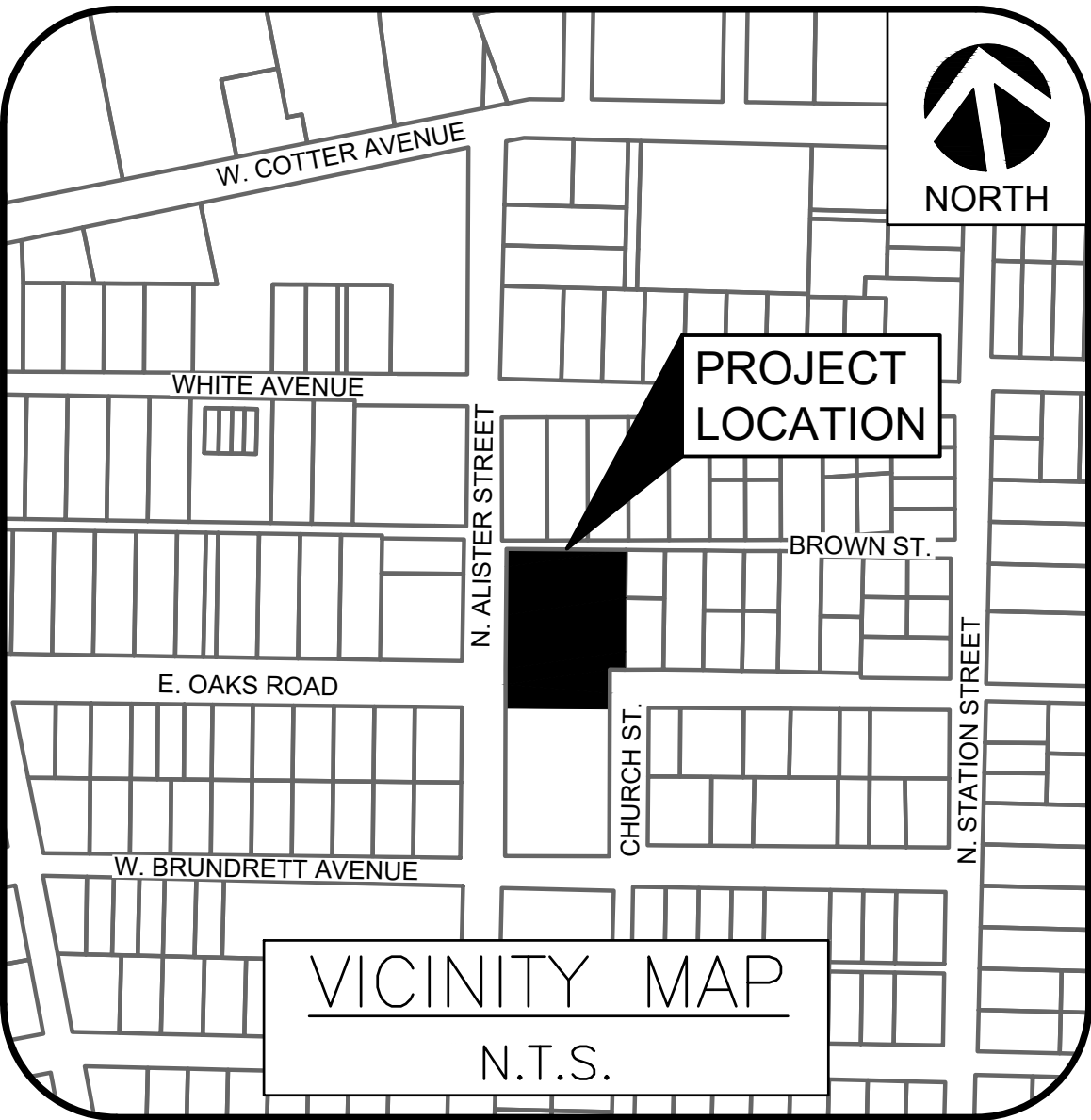
6. ANY DIRT, MUD, ROCKS, DEBRIS, ETC. THAT IS SPILLED, TRACKED, OR OTHERWISE DEPOSITED ON ANY EXISTING PAVED STREETS SHALL BE CLEANED UP IMMEDIATELY.

7. HAUL TRUCKS SHALL NOT BLOCK LANES OF TRAFFIC AT ANY TIME.

8. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY INSPECTOR AT TIME OF CONSTRUCTION.

9. CONTRACTOR SHALL DETERMINE THE LOCATION OF THE STABILIZED CONSTRUCTION ENTRANCES AND CONCRETE WASHOUT PIT.

10. CONTRACTOR SHALL ADHERE TO ALL STATE, FEDERAL, AND LOCAL ENVIRONMENTAL REGULATIONS FOR EROSION AND SEDIMENT CONTROLS. FOR GUIDELINES, REFER TO TECHNICAL SPECIFICATIONS.



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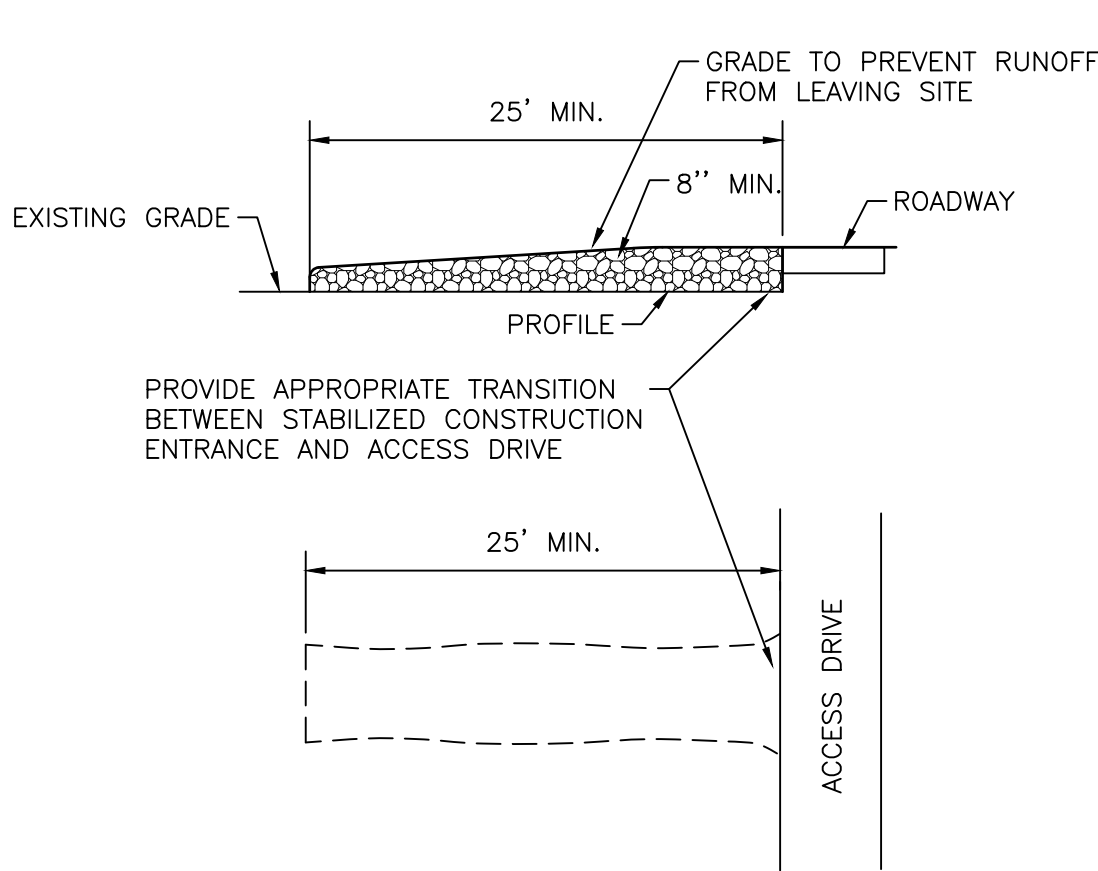
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SCALE: 1" = 20'
SHEET TITLE
SUGGESTED EROSION
AND SEDIMENTATION
CONTROL PLAN

C10.0

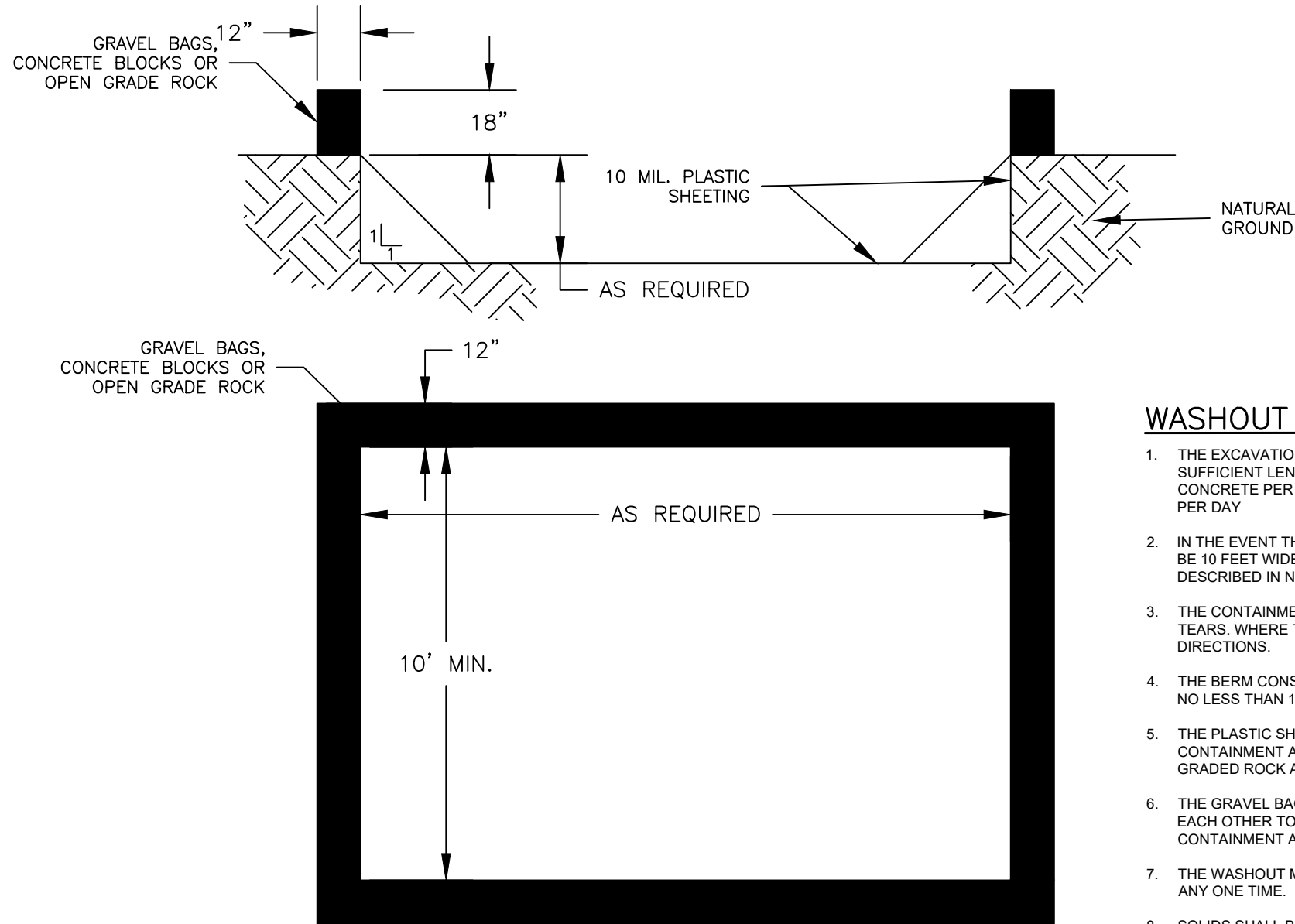


PLAN
STABILIZED CONSTRUCTION ENTRANCE

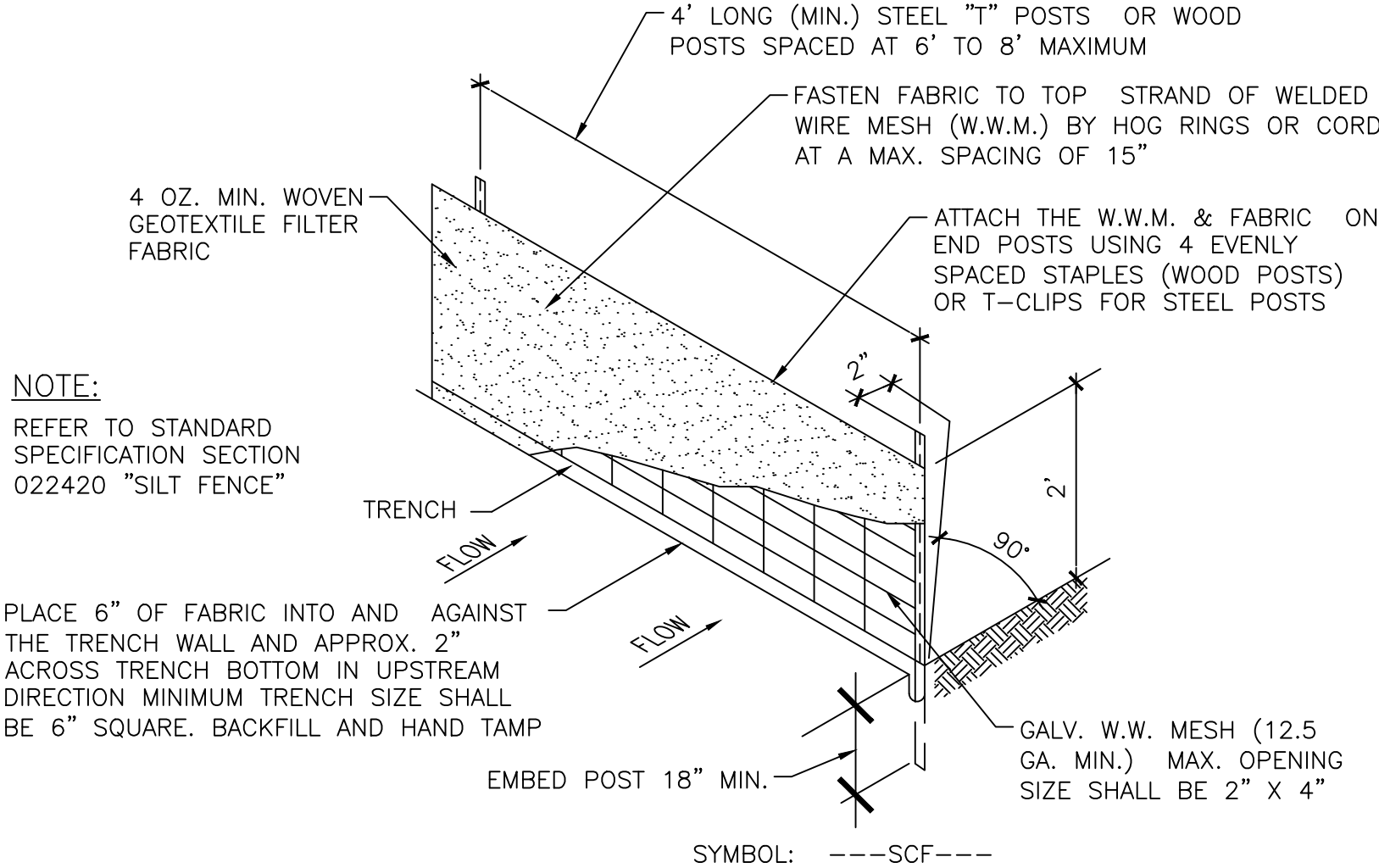
NOT TO SCALE

CONSTRUCTION ENTRANCE NOTES:

1. STONE SIZE: 3-5" OPEN GRADED ROCK.
2. LENGTH: AS EFFECTIVE BUT NOT LESS THAN 25'.
3. THICKNESS: NOT LESS THAN 8".
4. WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/EGRESS.
5. WASHING: WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO ACCESS DRIVE. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
6. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO ACCESS DRIVE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AS WELL AS REPAIR AND CLEAN OUT OF ANY MEASURE DEVICES USED TO TRAP SEDIMENT. ALL SEDIMENTS THAT IS SPILLED, DROPPED, WASHED OR TRACKED ONTO ACCESS DRIVE MUST BE REMOVED IMMEDIATELY.
7. DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.



CONCRETE / PAINT WASHOUT PIT
NTS



TEMPORARY SEDIMENT CONTROL FENCE DETAIL

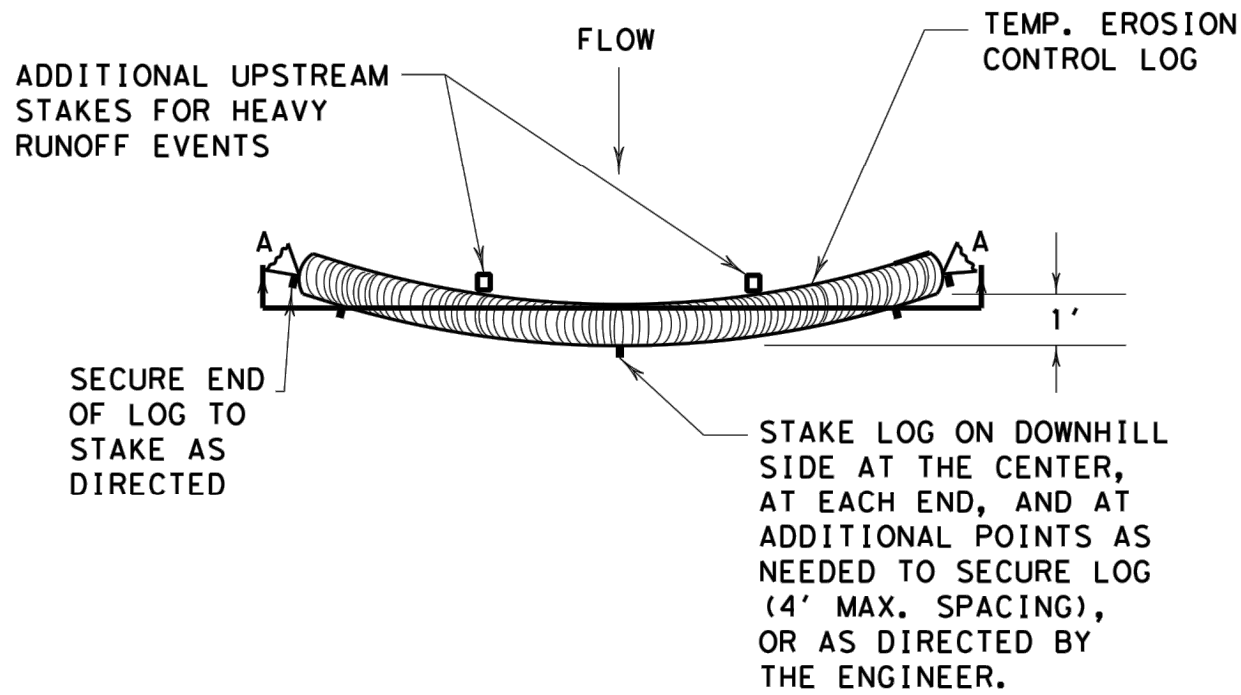
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SEDIMENT CONTROL FENCE USAGE GUIDELINES:

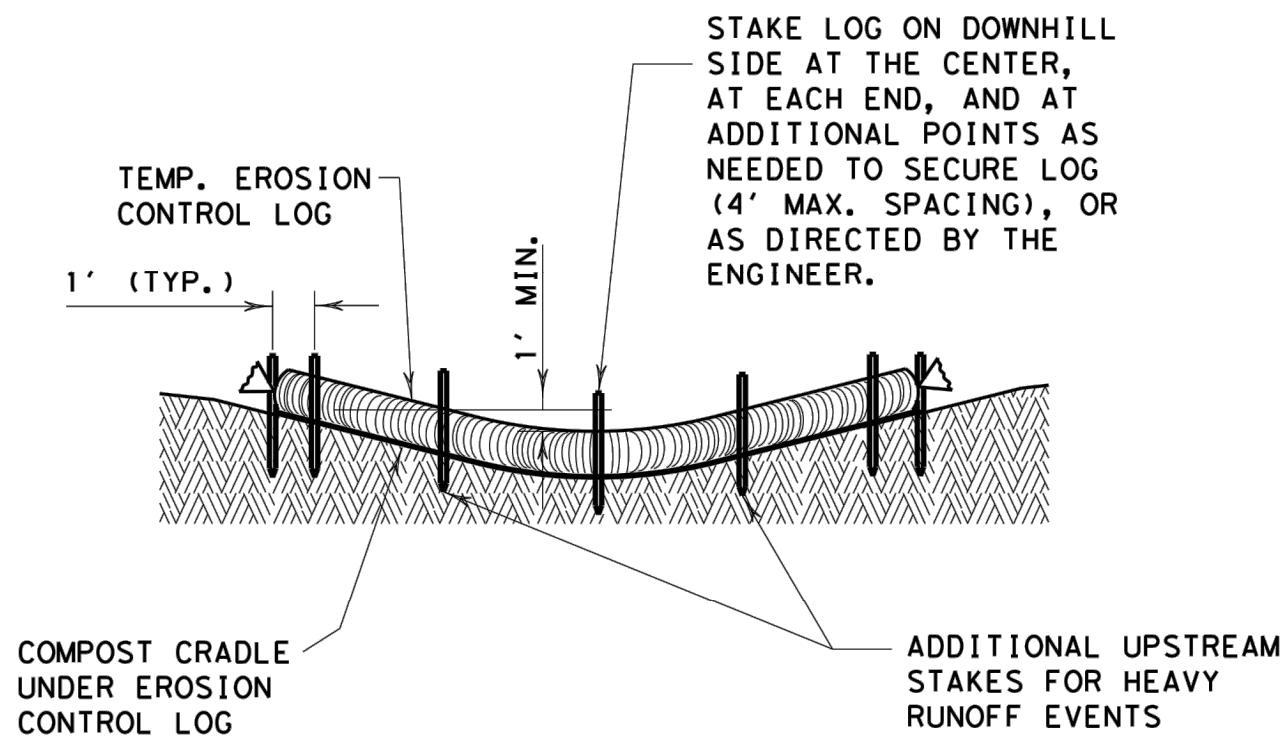
SEDIMENT CONTROL FENCE MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUNOFF. A 2 YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED.

SEDIMENT CONTROL FENCE SHOULD BE SIZED TO FILTER A MAX. FLOW THROUGH RATE OF 100 GPM/FT. SEDIMENT CONTROL FENCE IS NOT RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE LARGER THEN 2 ACRES.

* THE GUIDELINES SHOWN HERE ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

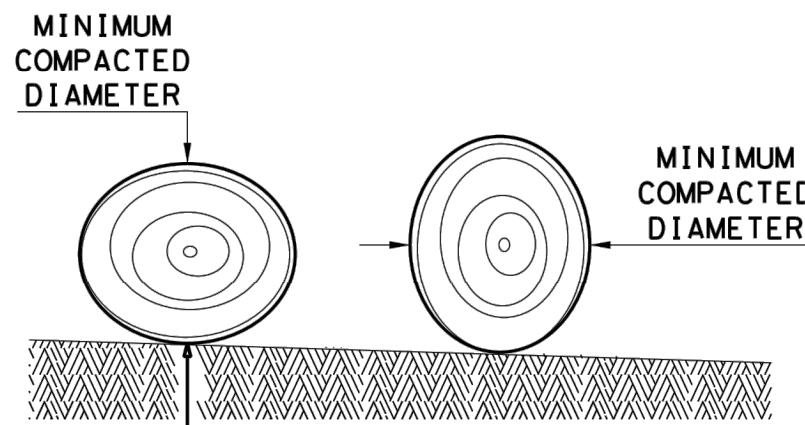


PLAN VIEW

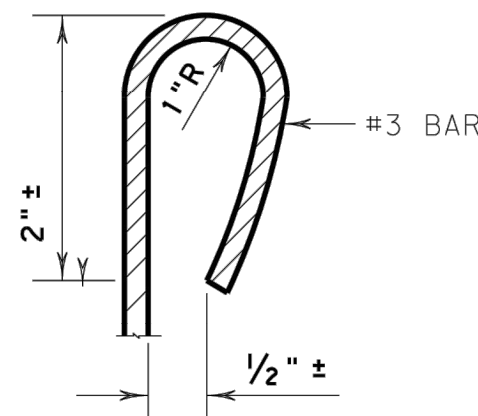


SECTION A-A
EROSION CONTROL LOG DAM

CL-D



DIAMETER MEASUREMENTS OF EROSION CONTROL LOGS SPECIFIED IN PLANS



REBAR STAKE DETAIL

GENERAL NOTES:

1. EROSION CONTROL LOGS SHALL BE INSTALLED IN ACCORDANCE WITH MANFACTURER'S RECOMMENDATIONS, OR AS DIRECTED BY THE ENGINEER.
2. LENGTHS OF EROSION CONTROL LOGS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED FOR THE PURPOSE INTENDED.
3. UNLESS OTHERWISE DIRECTED, USE BIODEGRADABLE OR PHOTODEGRADABLE CONTAINMENT MESH ONLY WHERE LOG WILL REMAIN IN PLACE AS PART OF A VEGETATIVE SYSTEM. FOR TEMPORARY INSTALLATIONS, USE RECYCLABLE CONTAINMENT MESH.
4. FILL LOGS WITH SUFFICIENT FILTER MATERIAL TO ACHIEVE THE MINIMUM COMPACTED DIAMETER SPECIFIED IN THE PLANS WITHOUT EXCESSIVE DEFORMATION.
5. STAKES SHALL BE 2" X 2" WOOD OR #3 REBAR, 2'-4' LONG, EMBEDDED SUCH THAT 2" PROTRUDES ABOVE LOG, OR AS DIRECTED BY THE ENGINEER.
6. DO NOT PLACE STAKES THROUGH CONTAINMENT MESH.
7. COMPOST CRADLE MATERIAL IS INCIDENTAL & WILL NOT BE PAID FOR SEPARATELY.
8. SANDBAGS USED AS ANCHORS SHALL BE PLACED ON TOP OF LOGS & SHALL BE OF SUFFICIENT SIZE TO HOLD LOGS IN PLACE.
9. TURN THE ENDS OF EACH ROW OF LOGS UPSLOPE TO PREVENT RUNOFF FROM FLOWING AROUND THE LOG.
10. FOR HEAVY RUNOFF EVENTS, ADDITIONAL UPSTREAM STAKES MAY BE NECESSARY TO KEEP LOG FROM FOLDING IN ON ITSELF.

SHEET 1 OF 3

		Design Division Standard	
TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES			
EC(9) - 16			
FILE: ec916	DN: TxDOT	CK: KM	DW: LS/PT
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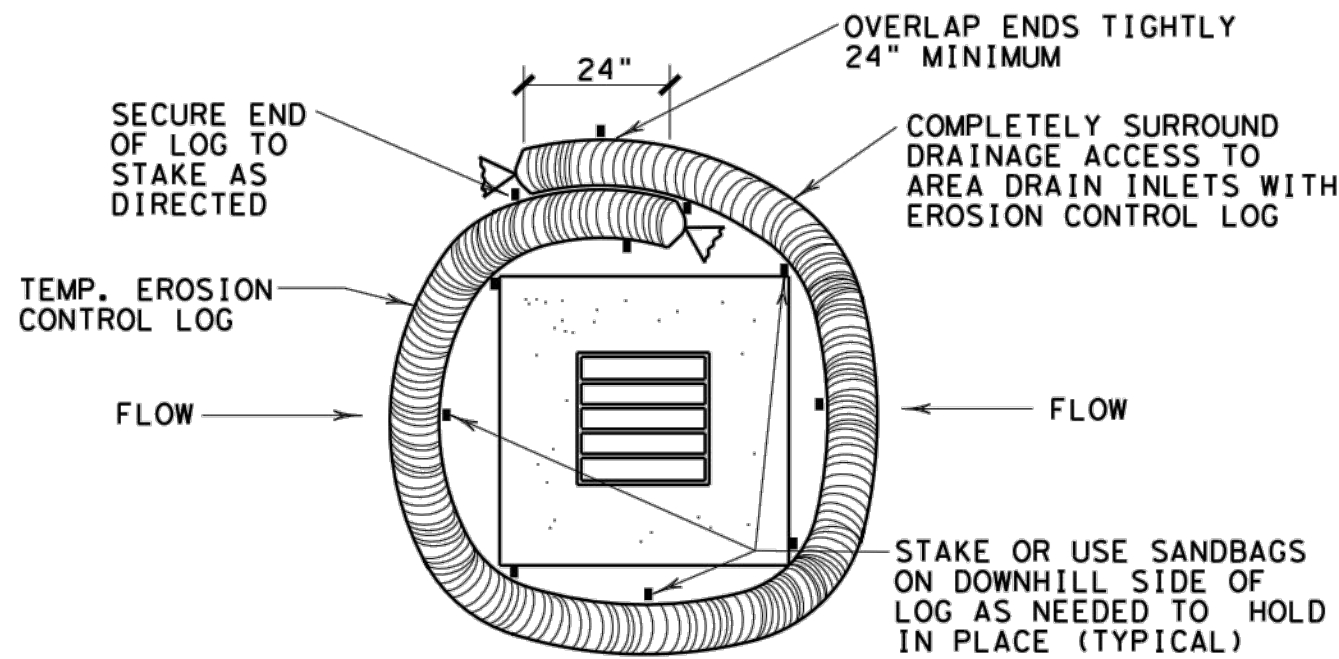
PROJECT NO.: 46201.004
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SHEET TITLE
EROSION AND SEDIMENTATION CONTROL DETAILS

C10.1

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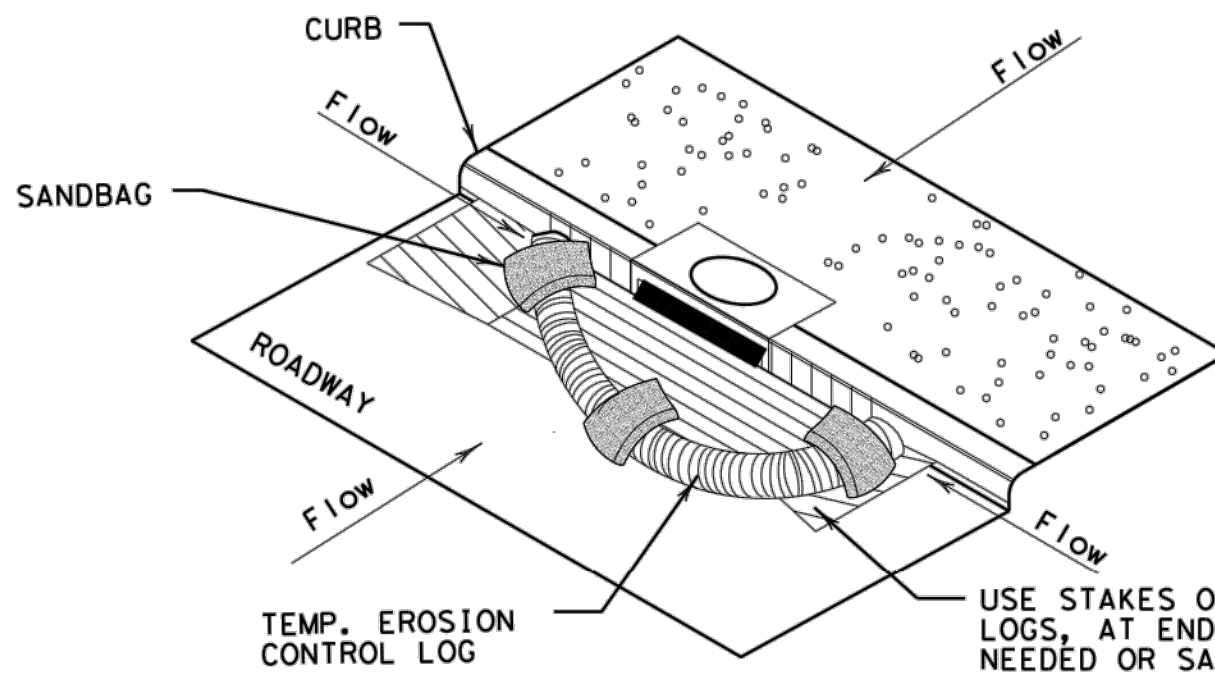
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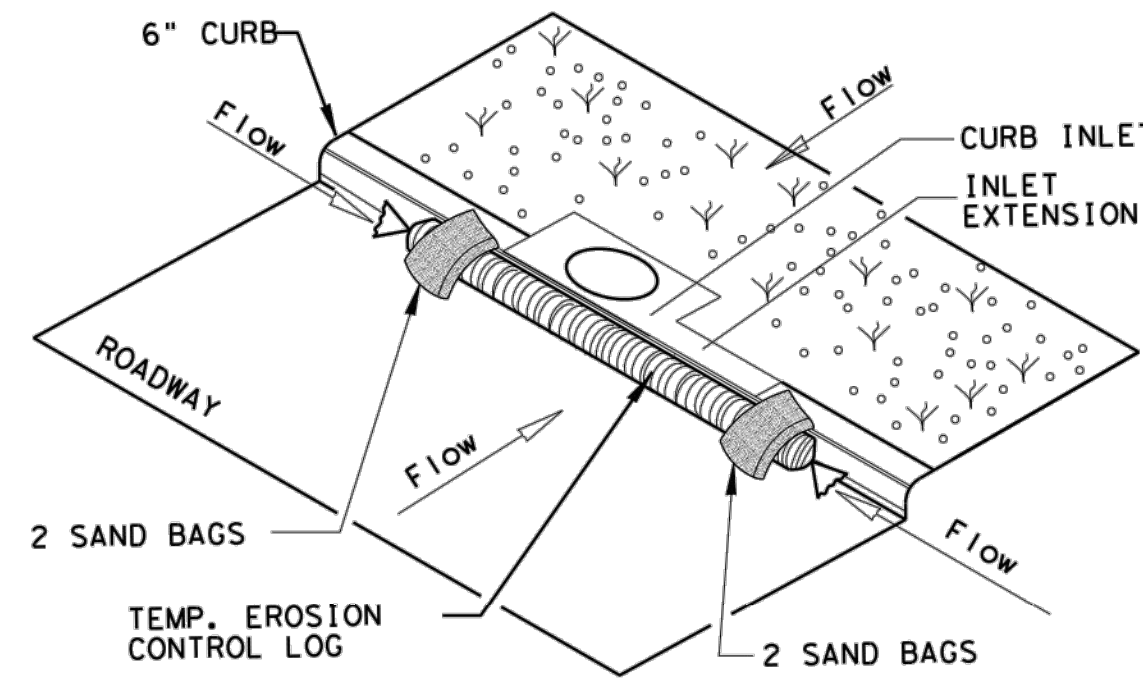
EROSION CONTROL LOG AT DROP INLET

CL-DI



EROSION CONTROL LOG AT CURB INLET

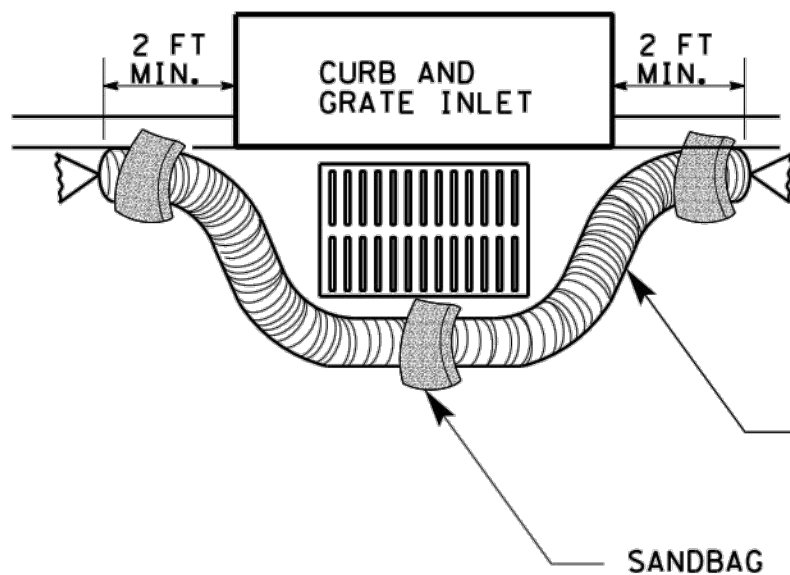
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EROSION CONTROL LOG AT CURB INLET

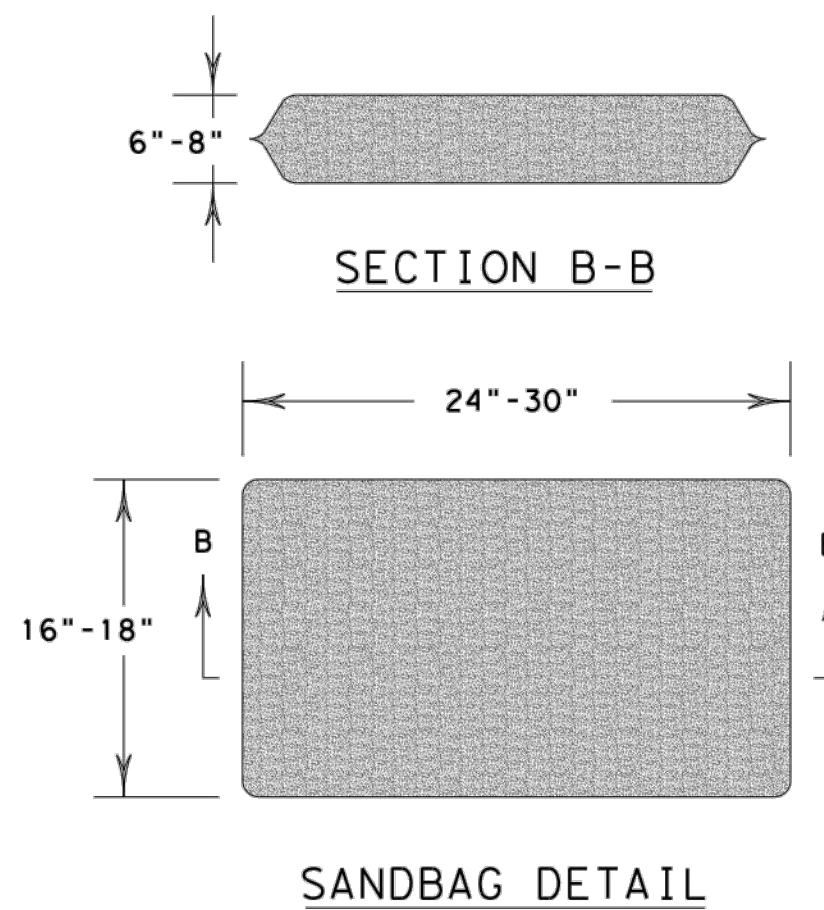
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NOTE:
EROSION CONTROL LOGS USED AT CURB INLETS SHOULD ONLY BE USED IF THEY WILL NOT IMPEDE TRAFFIC OR FLOOD THE ROADWAY OR WHEN THE STORM SEWER SYSTEM IS NOT FULLY FUNCTIONAL.



EROSION CONTROL LOG AT CURB & GRADE INLET

CL-GI



SANDBAG DETAIL

Design Division Standard

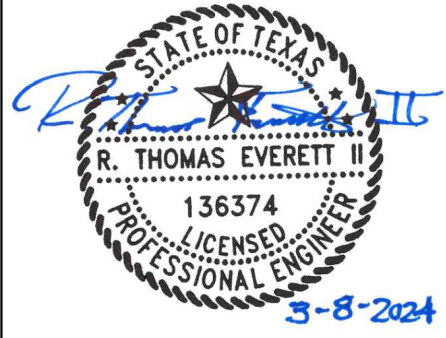
TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES
EROSION CONTROL LOG
EC (9) - 16

FILE: ec916	DN: TxDOT	CK: KM	DN: LS/PT	CK: LS
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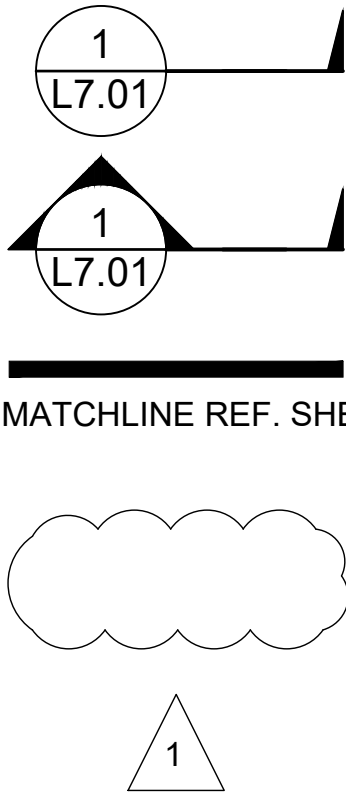
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SCALE: NTS
SHEET TITLE
EROSION AND SEDIMENTATION CONTROL DETAILS
C10.2

PLANTING NOTES

1. EXISTING CONDITIONS: THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO SUBMITTING BID PROPOSAL. TO BECOME FAMILIAR WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK. THE LANDSCAPE CONTRACTOR SHALL IDENTIFY AND REVIEW ALL UNDERGROUND UTILITY LOCATIONS PRIOR TO COMMENCING WORK AND SHALL EXERCISE EXTREME CAUTION WHEN WORKING CLOSE TO UTILITIES, AND SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF APPARENT CONFLICTS WITH CONSTRUCTION AND UTILITIES SO THAT ADJUSTMENTS CAN BE PLANNED PRIOR TO INSTALLATION. CONTACT THE LOCAL UNDERGROUND UTILITY SERVICES FOR UTILITY LOCATION AND IDENTIFICATION. THE LANDSCAPE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK AND DISRUPTION OR DAMAGE TO UTILITIES SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER.
2. ALL SITE FEATURES INCLUDING LIGHTS AND OTHER UTILITIES, ABOVE AND BELOW GRADE TO BE VERIFIED ON SITE PRIOR TO PLANTING AND IRRIGATION INSTALLATION. NOTIFY OWNER'S REPRESENTATIVE TO MAKE ADJUSTMENTS PRIOR TO INSTALLATION.
3. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ACCURATELY LAYING OUT THE PLANT BEDS AND TURF AREAS BY SCALING THE DRAWINGS. LAYOUT SHALL BE PAINTED OR STAKED ON THE GROUND FOR REVIEW AND APPROVAL OF OWNER'S REPRESENTATIVE PRIOR TO EXCAVATION. FOLLOWING APPROVAL OF LAYOUT, CLOSELY COORDINATE THE INSTALLATION OF THE IRRIGATION SYSTEM TO CONFORM TO THE APPROVED LAYOUT.
4. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR FINE GRADING OF THE TURF AND PLANTING AREAS. THE LANDSCAPE CONTRACTOR AND OWNER SHALL REVIEW THE EXTENT OF GRADING OF AREA PRIOR TO COMMENCING WORK. ENTIRE SITE SHALL BE GRADED TO FINISH GRADE PRIOR TO SCHEDULING PLANTING INSTALLATION.
5. TURF AREAS SHALL BE RAKED SMOOTH, REMOVING AND DISPOSING OF STONES OVER 1" DIAMETER AND STICKS, ROOTS, AND OTHER EXTRANEOUS MATTER AND LEGALLY DISPOSING OF THEM OFF OWNER'S PROPERTY. ALL AREAS SHALL BE FINE GRADED TO ACHIEVE POSITIVE DRAINAGE WITHOUT PUDDLES OR STANDING WATER AND FEATHER INTO NATURAL GRADE. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES TO WITHIN PLUS OR MINUS 1/2 INCH OF FINISH ELEVATION. LIMIT FINISH GRADING TO AREAS THAT CAN BE PLANTED IN THE IMMEDIATE FUTURE.
6. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL OF SLOPED AREAS. CONTRACTOR TO RESTORE TURF OR PLANTING AREAS IF ERODED OR OTHERWISE DISTURBED AFTER FINISH GRADING.
7. TOPSOIL: THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING AND PLACING TOPSOIL TO PREPARE THE TURF AREAS FOR THE SPECIFIED GRASS SOD AND/OR SEEDING. TURF AREAS SHALL RECEIVE A 2" LAYER OF AMENDED TOPSOIL. THE LANDSCAPE ARCHITECT, LANDSCAPE CONTRACTOR AND OWNER SHALL REVIEW THE EXTENT OF THIS WORK PRIOR TO COMMENCEMENT OF INSTALLATION. DO NOT SPREAD TOPSOIL IF SOIL OR SUBGRADE IS FROZEN, MUDDY OR EXCESSIVELY WET. TOPSOIL SHALL BE A MIN. OF 2% ORGANIC WITH PH BETWEEN 5.3 - 6.0.
8. PLANT BEDS: THE LANDSCAPE CONTRACTOR SHALL EXCAVATE FULLY PREPARED PLANT BEDS AS REQUIRED TO ACCOMMODATE A FULL 6" OF PREPARED SOIL AND 2" MULCH LAYER. CLEAN, NATIVE TOPSOIL REMOVED FROM THESE BEDS MAY BE SPREAD ON NEARBY AREAS TO BE SODDED OR SEEDED.
9. PREPARED SOIL MIX SHALL CONSIST OF 4" IMPORTED TOPSOIL AND 2" COMPOST, THOROUGHLY BLENDED TOGETHER. FOLLOWING EXCAVATION, PLACE PREPARED SOIL MIX IN THESE PLANT BEDS. CREATE POSITIVE DRAINAGE IN LANDSCAPE AREAS AWAY FROM ALL BUILDINGS AND STRUCTURES. THIS MIX SHALL ALSO BE USED TO BACKFILL PLANTING PITS OF ALL PIT-PLANTED SHRUBS AND TREES. IN BID PROPOSAL, FURNISH UNIT PRICES PER CUBIC YARD OF PREPARED SOIL MIX. SUBMIT SAMPLE FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT.
10. FINISH GRADES OF SHRUB AREAS AND LAWNS SHALL BE 1½" BELOW ADJACENT PAVING OR HEADER.
11. WEED CONTROL TO BE COMPLETED PRIOR TO PREPARING PLANTING AREAS BY APPLICATION OF A 50/50 BLEND OF POST-EMERGENT HUMIC ACID COMPLEX AND ROUNDUP HERBICIDE. APPLY 10 LB OF MICROLIFE HUMATES PLUS PER 1,000 SQ FT TO RESTORE SOIL HEALTH.
12. PLANT BED EDGING: FOLLOWING APPROVAL OF PLANT BED LAYOUT, INSTALL EDGING (OR APPROVED EQUAL) WHERE INDICATED ON THE DRAWINGS. INSTALL EDGING PER DETAILS. MAINTAIN AN ACCURATE LAYOUT WITH SMOOTH CURVES, FREE OF KINKS AND ABRUPT BENDS. TOP OF EDGING TO BE 1" ABOVE SOIL LEVEL OF ADJACENT TURF. DO NOT INSTALL WHERE THE TOP OF EDGING IS ABOVE WALKS OR CURBS OR CREATES A TRIPPING HAZARD. NOTE THAT CONCRETE SIDEWALKS AND CURBS WILL ACT AS AN EDGING. IN BID PROPOSAL, FURNISH UNIT PRICE PER LINEAR FOOT.
13. MULCH: FOLLOWING PLANTING, MULCH "FULLY-PREPARED" BEDS AND MULCHED AREAS WITH 3" LAYER OF SHREDDED HARDWOOD MULCH AND FILL BASINS OF PIT-PLANTED SHRUBS AND TREES WITH MULCH.
14. SOD AND GRASS SEEDING: LIMITS OF SOD AND GRASS SEEDING AREAS SHOWN ON THE DRAWINGS ARE SCHEMATIC AND NOT TO BE CONSTRUED TO BE PRECISE. THE LANDSCAPE ARCHITECT, LANDSCAPE CONTRACTOR AND OWNER SHALL REVIEW THE LIMITS OF SEEDING AND SODDING PRIOR TO COMMENCING INSTALLATION.
15. THE LANDSCAPE ARCHITECT, LANDSCAPE CONTRACTOR AND OWNER SHALL REVIEW THE LIMITS OF SEEDING PRIOR TO COMMENCING INSTALLATION. LANDSCAPE CONTRACTOR SHALL PROVIDE A UNIFORM STAND OF GRASS BY WATERING AND MAINTAINING SEEDED AREAS UNTIL DATE OF SUBSTANTIAL COMPLETION. RESEED AREAS, WITH SPECIFIED MATERIALS, WHICH FAIL TO PROVIDE A UNIFORM STAND UNTIL OWNER'S REPRESENTATIVE REVIEWS ALL AFFECTED AREAS. REPLACE IMMEDIATELY UNLESS REQUIRED TO SEED IN THE SUCCEEDING PLANTING SEASON. RESTRICT TRAFFIC FROM SEEDED AREAS UNTIL ESTABLISHED. ERECT SIGNS, FLAGGING AND BARRIERS AS REQUIRED. SOW GRASS SEED WHEN SOIL TEMPERATURE IS ABOVE 65 DEGREES AND BELOW 95 DEGREES (F). DO NOT PLANT BETWEEN THE DATES OF AUGUST 1 AND SEPT 15.
16. GUYING AND STAKING, PLANT INSTALLATION, MAINTENANCE AND PRUNING TO BE DONE PER PLANS: ALL PLANTS ARE TO BE WARRANTED (OR REPLACEMENT) FOR A PERIOD OF TWO YEARS AFTER FINAL ACCEPTANCE OF THE LANDSCAPE INSTALLATION. PROMPTLY REPLACE ANY PLANTINGS DEEMED UNACCEPTABLE BY THE OWNER'S REPRESENTATIVE. REMOVE ALL TREE STAKES AND GUY WIRES AFTER ONE YEAR ESTABLISHMENT PERIOD STARTING FROM FINAL ACCEPTANCE OF LANDSCAPE INSTALLATION. REPLACE ANY CRACKED OR DAMAGED TREE STAKES AND SECURE GUY WIRES AS NEEDED.
17. PLANTS: ALL PLANTS SHALL BE NURSERY GROWN, GRADE 1 PLANTS MEETING NURSERYMAN ASSOCIATION STANDARDS, TYPICAL IN SHAPE AND SIZE FOR SPECIES. PROVIDE MATCHING FORMS AND SIZES FOR PLANT MATERIALS WITHIN EACH SPECIES AND SIZE DESIGNATED ON THE DRAWINGS. PLANTS SHALL NOT BE ROOT-BOUND NOR LOOSE IN THEIR CONTAINERS. HANDLE ALL PLANTS WITH CARE IN TRANSPORTING, PLANTING AND MAINTENANCE UNTIL INSPECTION AND FINAL ACCEPTANCE. PLANTS SHALL BE UNIFORM IN APPEARANCE ON ALL SIDES. USE TOTAL QUANTITIES OF PLANTS INDICATED; ADJUST SPACING AS NEEDED TO EVENLY FILL BEDS. OWNER'S REPRESENTATIVE SHALL HAVE FINAL APPROVAL OF PLANT MATERIAL LAYOUT. PRUNE NEWLY PLANTED TREES ONLY AS DIRECTED BY LANDSCAPE ARCHITECT. CUT AND REMOVE BURLAP FROM TOP ¼ OF BALL (IF B&B MATERIAL IS SPECIFIED OR APPROVED). CALIPER OF MULTI-TRUNK TREES DENOTES MINIMUM CALIPER OF MAJOR TRUNKS. OTHER TRUNKS MUST BE 1/2 SIZE OF MAJOR TRUNK OR LARGER.
18. REGULAR CLEAN UP AT THE JOB SITE AND ACCESS ROUTES SHALL TAKE PLACE ON A DAILY BASIS UNLESS OTHERWISE APPROVED OR REQUIRED BY THE OWNER'S REPRESENTATIVE. DEMOLITION AND INSTALLATION SCHEDULING IS TO BE COORDINATED WITH OWNER'S REPRESENTATIVE. DAILY AND ANY BARRIERS/PROTECTIVE DEVICES ARE TO BE INSTALLED AS NEEDED TO PROTECT THE SAFETY OF THE PUBLIC. SPECIAL CARE SHALL BE TAKEN TO KEEP ALL VEHICULAR ROUTES OPEN AND PEDESTRIAN ACCESS UNOBSTRUCTED FOR SAFE PASSAGE DURING DEMOLITION AND CONSTRUCTION.
19. CONTRACTOR TO PROVIDE A NINETY-DAY MAINTENANCE AGREEMENT FOR ALL WORK PERFORMED. AREAS SHALL BE MAINTAINED SO AS TO PRESENT A HEALTHY, NEAT AND ORDERLY APPEARANCE AT ALL TIMES AND SHALL BE KEPT FREE OF REFUSE AND DEBRIS. ALL PLANTED AREAS SHALL BE PROVIDED WITH AN AUTOMATIC IRRIGATION SYSTEM AND WATERED AS NECESSARY TO ENSURE CONTINUOUS HEALTHY GROWTH AND DEVELOPMENT. MAINTENANCE SHALL INCLUDE THE REPLACEMENT OF ALL DEAD PLANT MATERIAL IF THAT MATERIAL WAS USED TO MEET THE REQUIREMENTS OF THE LANDSCAPE ORDINANCE.
20. WARRANTY: CONTRACTOR TO PROVIDE IN WRITING TO OWNER A GUARANTEE FOR ALL PLANT MATERIAL PROVIDED. PROVIDE A TWO-YEAR REPLACEMENT WARRANTY FOR ALL PLANT MATERIALS. WARRANTY SHALL COVER PLANTS WHICH HAVE DIED OR PARTIALLY DIED (THEREBY RUINING THEIR NATURAL SHAPE), BUT SHALL NOT INCLUDE DAMAGE BY VANDALISM, BROWSING, HAIL, ABNORMAL FREEZES, DROUGHT OR NEGLIGENCE BY THE OWNER. THE WARRANTY IS INTENDED TO COVER CONTRACTOR NEGLIGENCE, INFESTATIONS, DISEASE AND DAMAGE OR SHOCK TO PLANTS. PLANTS REPLACED UNDER WARRANTY WILL BE WARRANTED FOR ONE YEAR FOLLOWING REPLACEMENT.
21. MECHANICAL EQUIPMENT SHALL BE SCREENED FROM VIEW OF AT LEAST SIXTY (60%) PERCENT OF ANY STREET OR PUBLIC RIGHT-OF-WAY.
22. FOR NEWLY PLANTED TREES THE CALIPER IS THE TRUNK DIAMETER OF A TREE AT FOUR (6") INCHES ABOVE NATURAL GRADE PER THE COMPOSITE ZONING ORDINANCE.
23. ALL NEW LANDSCAPES BEDS ARE REQUIRED TO HAVE A MINIMUM OF SIX INCHES (6") OF SOIL DEPTH. THIS SIX-INCH (6") MINIMUM SOIL DEPTH WILL CONSIST OF 75 PERCENT SOIL BLENDED WITH 25 PERCENT COMPOST. THE SOIL/COMPOST BLEND SHALL BE INCORPORATED INTO THE TOP TWO INCHES OF THE NATIVE SOIL. THE SIX-INCH (6") DEPTH REQUIREMENT DOES NOT APPLY TO THE AREA BETWEEN THE DRIP LINE AND TRUNK OF EXISTING TREES, SHRUB BEDS, HYDROSEED, REVEG OR WILDSCAPE AREAS. CONTRACTOR TO SCARIFY SOIL PRIOR TO REVEG/ HYDROSEED TO ENSURE PROPER ESTABLISHMENT. AREAS WITH EXISTING NATIVE VEGETATION THAT REMAIN UNDISTURBED SHALL BE EXEMPT FROM THE SOIL DEPTH PROVISION; PROVIDED THAT NATIVE SOIL AND VEGETATION IN SUCH AREA IS FENCED DURING CONSTRUCTION AND PROTECTED FROM DISTURBANCE AND COMPACTION DURING THE CONSTRUCTION PROCESS.
24. ALL DISTURBED AREAS AND ROW WILL BE RE-VEGETATED BY THE CONTRACTOR.

SYMBOLS LEGEND



SAMPLE SECTION
REFERENCE

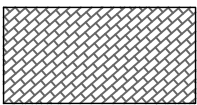
SAMPLE ELEVATION
REFERENCE

SAMPLE MATCHLINE

SAMPLE REVISION
CLOUD

SAMPLE REVISION TAG

MATERIALS LEGEND



BRICK PAVING



BOLLARD



OVERHEAD STRUCTURE



PLANTING AREA, REFER
TO PLANTING PLAN



EXPANSION JOINT

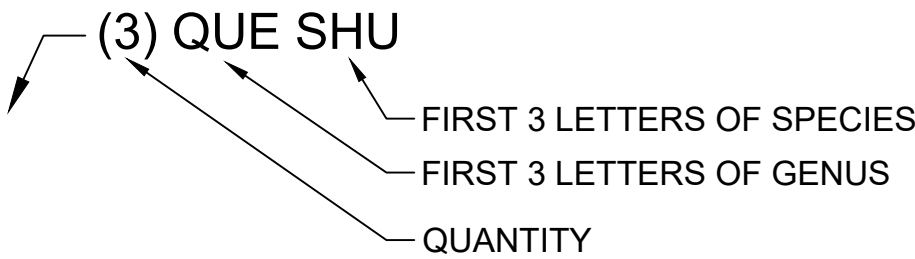


CONTROL JOINT

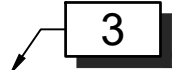
TABLE OF ABBREVIATIONS

BC	BACK OF CURB
BOH	BUILDING OVERHANG
BOLL	BOLLARD
EA	EACH ITEM
EB	ELECTRICAL BOX
FH	FIRE HYDRANT
FL	FLOWLINE
GI	DRAINAGE GRATE INLET
GW	GUY-WIRE
HP/LP	HIGH POINT/LOW POINT
HW	HEADWALL
ICV	IRRIGATION CONTROL VALVE
LF	LINEAR FEET
LP	LIGHT POLE
PP	POWER POLE
SF	SQUARE FEET
SSMH	SANITARY SEWER MANHOLE
SY	SQUARE YARD
TRS	TELEPHONE POLE
TS	TRAFFIC SIGN
TS/BS	TOP OF STEP/BOTTOM OF STEP
TW/BW	TOP OF WALL/BOTTOM OF WALL
WV	WATER VALVE

PLANT IDENTIFICATION KEY



SITE DETAIL KEYNOTE LEGEND



SITE DETAIL KEYNOTES:

SYMBOL	DESCRIPTION	DETAIL
3	CONCRETE PAVING	X/LX.XX
	KEYNOTE (SYSTEM) ITEM AND BRIEF DESCRIPTION	
	KEYNOTE CALL-OUT	
	PRIMARY DETAIL REFERENCE (NUMBER AND SHEET)	

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
1	CONCRETE MOW STRIP	6/L2.02
2	LANDSCAPE BERMS AS BUFFER	2/L2.02
3	SHADE STRUCTURES	1/L3.01
4	BOARDWALK	1/L1.03
5	NEW SIDEWALK (REFER TO CIVIL)	
6	BIOSWALE PLANTING AREA	
7	LIMITS OF BIOSWALE PLANTING	
8	NEW CURB (REFER TO CIVIL)	
9	NEW PARK SIGN (REF. CITY WAYFINDING PLAN FOR DETAILS)	
10	28 SPACE PARKING LOT (REFER TO CIVIL)	
11	NEW USPS CLUSTER BOX LOCATION	
12	WAYFINDING (REF. CITY WAYFINDING PLAN FOR DETAILS)	
13	STAGE AND BANDSHELL	1/L3.00
14	ACCESSIBLE SIGNAGE (REFER TO CIVIL)	
15	DECORATIVE CONCRETE PATTERN	2/L1.02
17	PROPOSED CONSTRUCTION EASEMENT (REFER TO CIVIL)	
18	REPAIRED ASPHALT (REFER TO CIVIL)	
19	STOP SIGN (REFER TO CIVIL)	
20	DO NOT BLOCK SIGN (REFER TO CIVIL)	
21	GALVANIZED STEEL HANDRAIL	5/L3.00
PA	PLANTING AREA	

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DEPARTMENT
PORT ARANSAS, TX



REVISION NO.	DATE	DESCRIPTION				



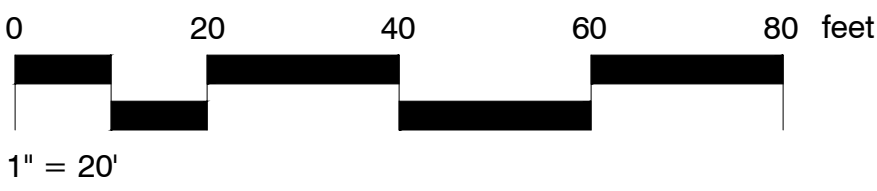
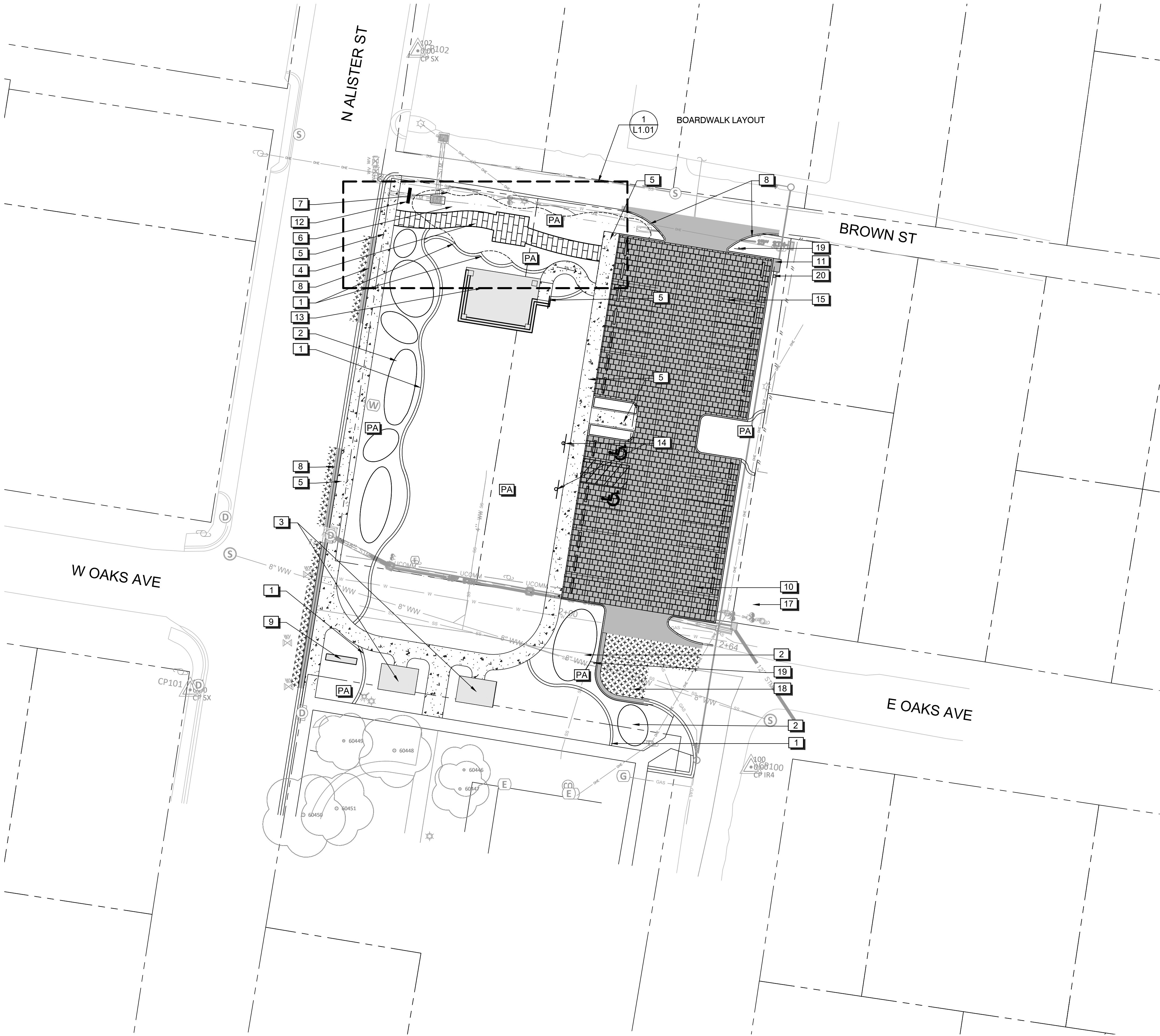
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BID SET

PROJECT NO.:
ISSUED: 2024-03-13 BID SET
DRAWN BY: CB
CHECKED BY: LO
SCALE: 1" = 20'
SHEET TITLE

GENERAL NOTES

L0.01

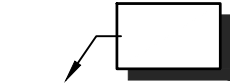
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REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
1	CONCRETE MOW STRIP	6/L.02
2	LANDSCAPE BERMS AS BUFFER	2/L.02
3	SHADE STRUCTURES	1/L.01
4	BOARDWALK	1/L.03
5	NEW SIDEWALK (REFER TO CIVIL)	
6	BIOSWALE PLANTING AREA	
7	LIMITS OF BIOSWALE PLANTING	
8	NEW CURB (REFER TO CIVIL)	
9	NEW PARK SIGN (REF. CITY WAYFINDING PLAN FOR DETAILS)	
10	28 SPACE PARKING LOT (REFER TO CIVIL)	
11	NEW USPS CLUSTER BOX LOCATION	
12	WAYFINDING (REF. CITY WAYFINDING PLAN FOR DETAILS)	
13	STAGE AND BANDSHELL	1/L.00
14	ACCESSIBLE SIGNAGE (REFER TO CIVIL)	
15	DECORATIVE CONCRETE PATTERN	2/L.02
17	PROPOSED CONSTRUCTION EASEMENT (REFER TO CIVIL)	
18	REPAIRED ASPHALT (REFER TO CIVIL)	
19	STOP SIGN (REFER TO CIVIL)	
20	DO NOT BLOCK SIGN (REFER TO CIVIL)	
21	GALVANIZED STEEL HANDRAIL	5/L.03
PA	PLANTING AREA	

SITE DETAIL KEYNOTE LEGEND



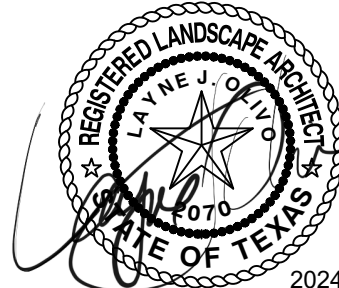
SITE DETAIL KEYNOTES:

SYMBOL	DESCRIPTION	DETAIL
	CONCRETE PAVING	X/LX.XX
	KEYNOTE (SYSTEM) ITEM AND BRIEF DESCRIPTION	
	KEYNOTE CALL-OUT	
	PRIMARY DETAIL REFERENCE (NUMBER AND SHEET)	

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PARKS AND RECREATION
DEPARTMENT
PORT ARANSAS, TX



REVISION NO.	DATE	DESCRIPTION



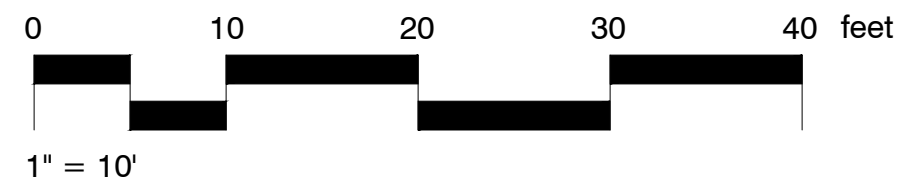
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY AYNIS L. CASH, R.L.A., 2020 ON AUG 2020. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE LANDSCAPE ARCHITECT IS AN OFFENSE UNDER TITLE 22, TEXAS ADMINISTRATIVE CODE. CHARTERED LANDSCAPE ARCHITECTS, THE RECORD COPY OF THIS DRAWING IS ON FILE AT THE OFFICES OF HALF ASSOCIATES, INC., 4000 FOSSIL CREEK BLVD, FORT WORTH, TX 76124-2701. TEMPLATED BY W-312

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PROJECT NO.:
ISSUED: 2024-03-13 BID SET
DRAWN BY: CB
CHECKED BY: LO
SCALE: 1" = 20'
SHEET TITLE

HARDSCAPE SITE PLAN

L1.00

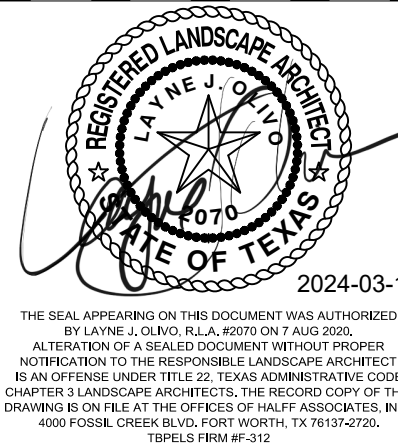


<u>SYMBOL</u>	<u>DESCRIPTION</u>	<u>QTY</u>	<u>DETAIL</u>
1	CONCRETE MOW STRIP	306 LF	6/L2.04

NORTHING/EASTING POINT SCHEDULE			
POINT	DESCRIPTION	NORTHING	EASTING
1	RADIUS CONNECTION	N 17195326.29	E 1449395.94
2	RADIUS CENTER POINT	N 17195330.69	E 1449377.59
3	RADIUS CONNECTION	N 17195349.50	E 1449376.07
4	RADIUS CENTER POINT	N 17195360.50	E 1449375.18
5	RADIUS CONNECTION	N 17195359.41	E 1449364.20
6	RADIUS CONNECTION	N 17195342.48	E 1449296.36
7	RADIUS CENTER POINT	N 17195355.67	E 1449278.25
8	RADIUS CONNECTION	N 17195364.59	E 1449298.81
9	RADIUS CONNECTION	N 17195373.52	E 1449296.56
10	RADIUS CENTER POINT	N 17195386.10	E 1449286.82
11	RADIUS CONNECTION	N 17195387.11	E 1449302.70
12	RADIUS CENTER POINT	N 17195388.30	E 1449327.49
13	RADIUS CONNECTION	N 17195406.57	E 1449310.69
14	RADIUS CENTER POINT	N 17195423.63	E 1449293.66
15	RADIUS CONNECTION	N 17195432.85	E 1449315.94
16	RADIUS CENTER POINT	N 17195439.81	E 1449336.11
17	RADIUS CONNECTION	N 17195449.94	E 1449317.32
18	RADIUS CENTER POINT	N 17195470.81	E 1449284.21
19	RADIUS CONNECTION	N 17195479.49	E 1449322.38
20	RADIUS CENTER POINT	N 17195481.82	E 1449336.75
21	RADIUS CONNECTION	N 17195491.39	E 1449325.77
22	RADIUS CENTER POINT	N 17195503.46	E 1449312.40
23	RADIUS CONNECTION	N 17195516.15	E 1449325.18
24	RADIUS CENTER POINT	N 17195521.20	E 1449331.02
25	RADIUS CONNECTION	N 17195526.59	E 1449325.50
26	RADIUS CONNECTION	N 17195521.85	E 1449324.16
27	RADIUS CENTER POINT	N 17195515.98	E 1449328.46
28	RADIUS CONNECTION	N 17195523.10	E 1449329.96
29	RADIUS CENTER POINT	N 17195512.34	E 1449327.83
30	RADIUS CONNECTION	N 17195519.46	E 1449336.17
31	RADIUS CENTER POINT	N 17195524.67	E 1449342.70
32	RADIUS CONNECTION	N 17195516.83	E 1449345.59
33	RADIUS CENTER POINT	N 17195521.69	E 1449353.88
34	RADIUS CONNECTION	N 17195512.97	E 1449357.91
35	RADIUS CENTER POINT	N 17195521.93	E 1449366.20
36	RADIUS CONNECTION	N 17195511.40	E 1449372.39
37	RADIUS CONNECTION	N 17195499.77	E 1449372.84
38	RADIUS CENTER POINT	N 17195516.81	E 1449375.11
39	RADIUS CONNECTION	N 17195502.67	E 1449384.89
40	RADIUS CONNECTION	N 17195452.26	E 1449449.17
41	RADIUS CENTER POINT	N 17195454.46	E 1449449.53
42	RADIUS CONNECTION	N 17195453.35	E 1449451.46
43	RADIUS CENTER POINT	N 17195450.88	E 1449455.77
44	RADIUS CONNECTION	N 17195455.84	E 1449455.57
45	RADIUS CONNECTION	N 17195436.77	E 1449446.69
46	RADIUS CENTER POINT	N 17195434.56	E 1449446.35
47	RADIUS CONNECTION	N 17195435.02	E 1449448.53
48	RADIUS CENTER POINT	N 17195436.04	E 1449453.39
49	RADIUS CONNECTION	N 17195431.39	E 1449451.66



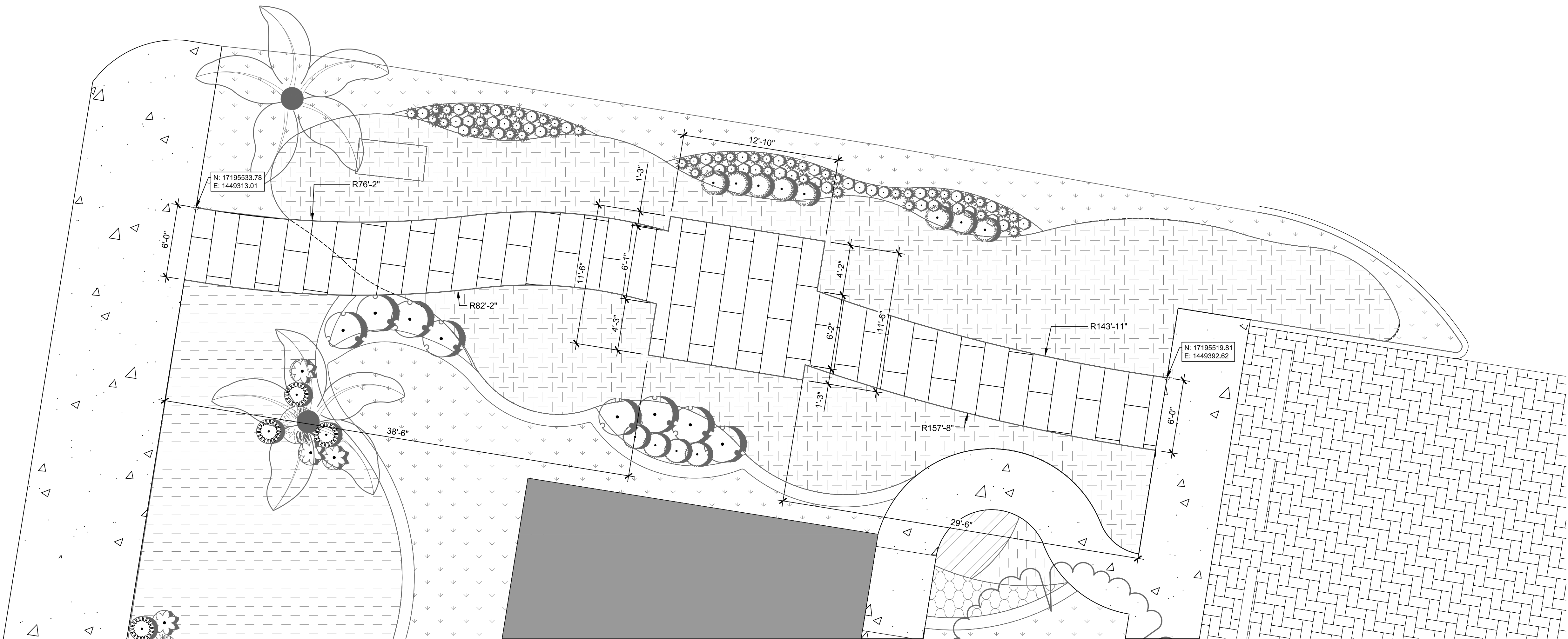
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1201 N BOWSER RD,
RICHARDSON, TX 75081
TEL.(214) 346-6200

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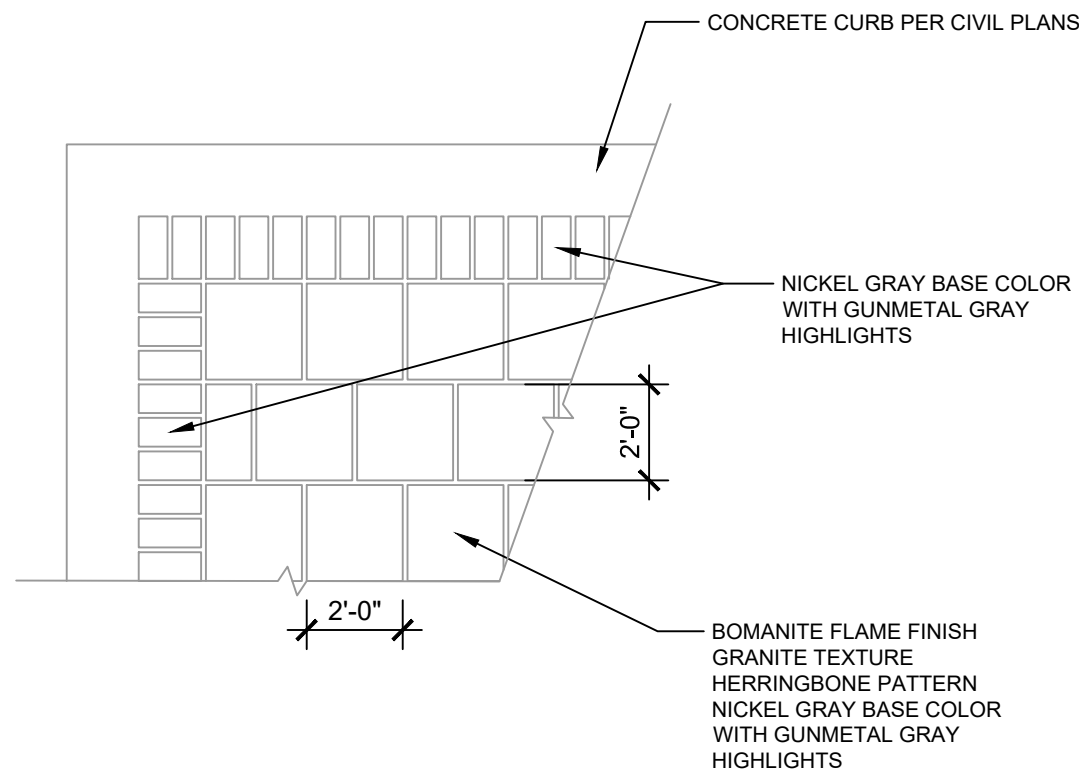
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SHEET TITLE	

L1.01

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1 BOARDWALK LAYOUT
1" = 5'



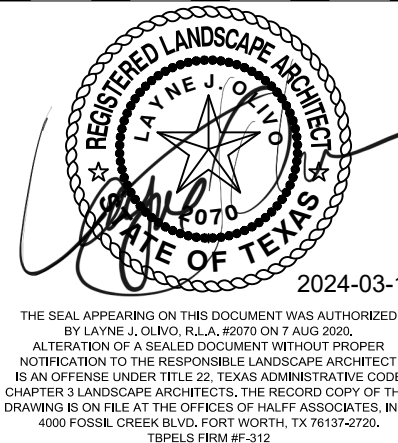
2 CONCRETE PATTERN
1/4" = 1'-0"

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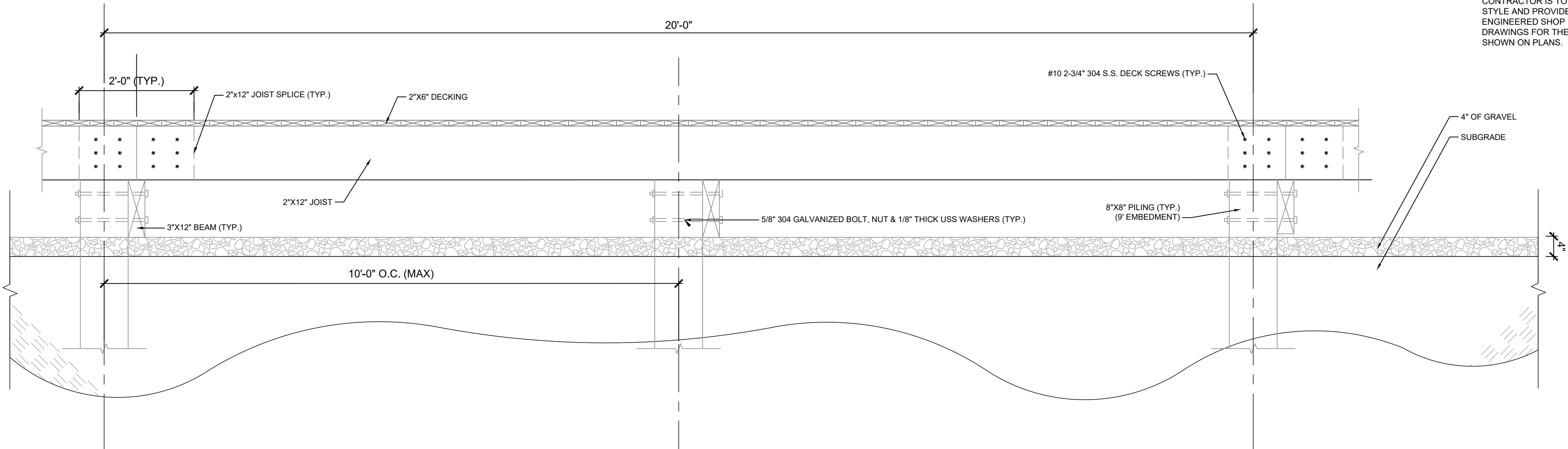
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CHECKED BY: LO
SCALE: 1" = 20'
SHEET TITLE

SITE DETAILS

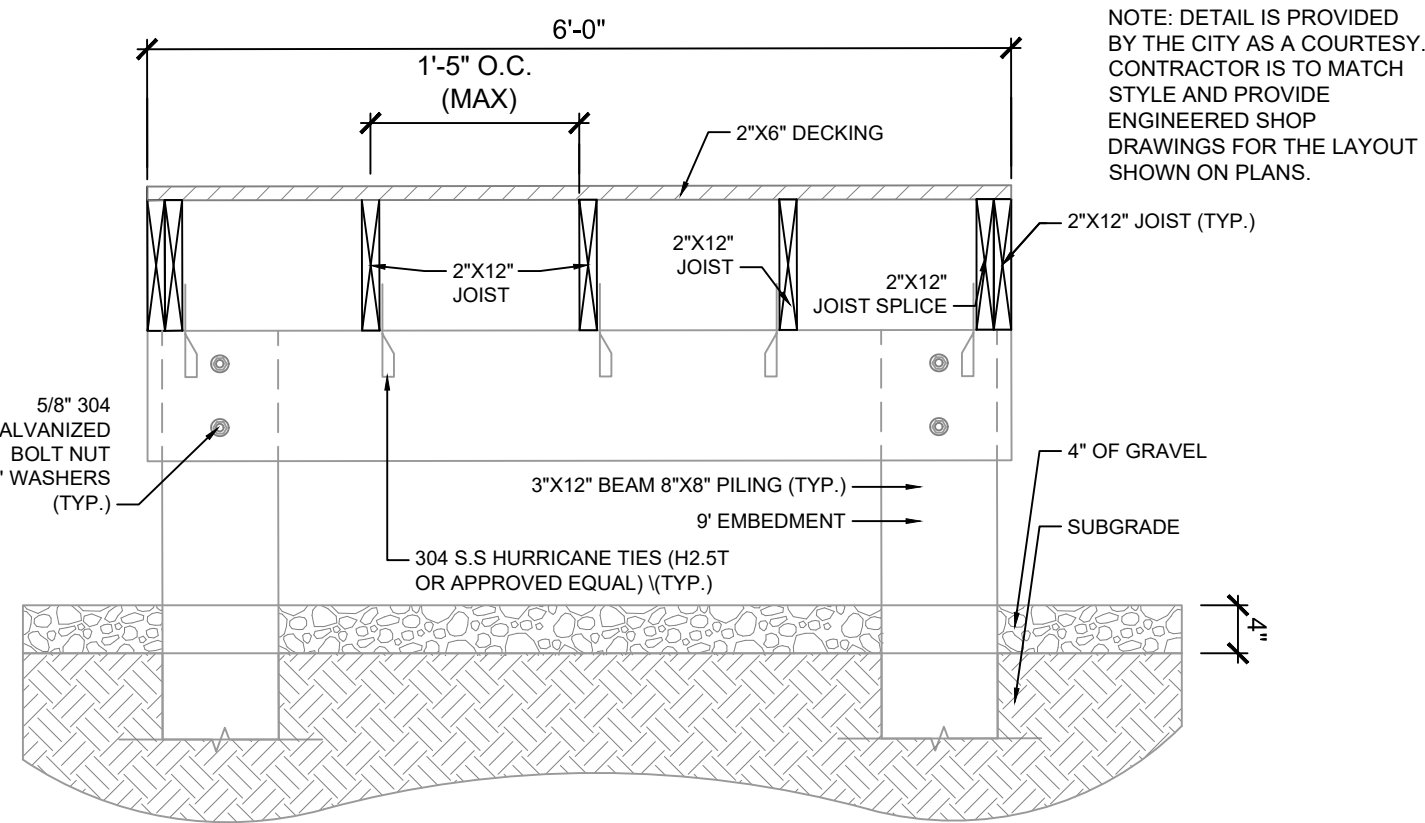
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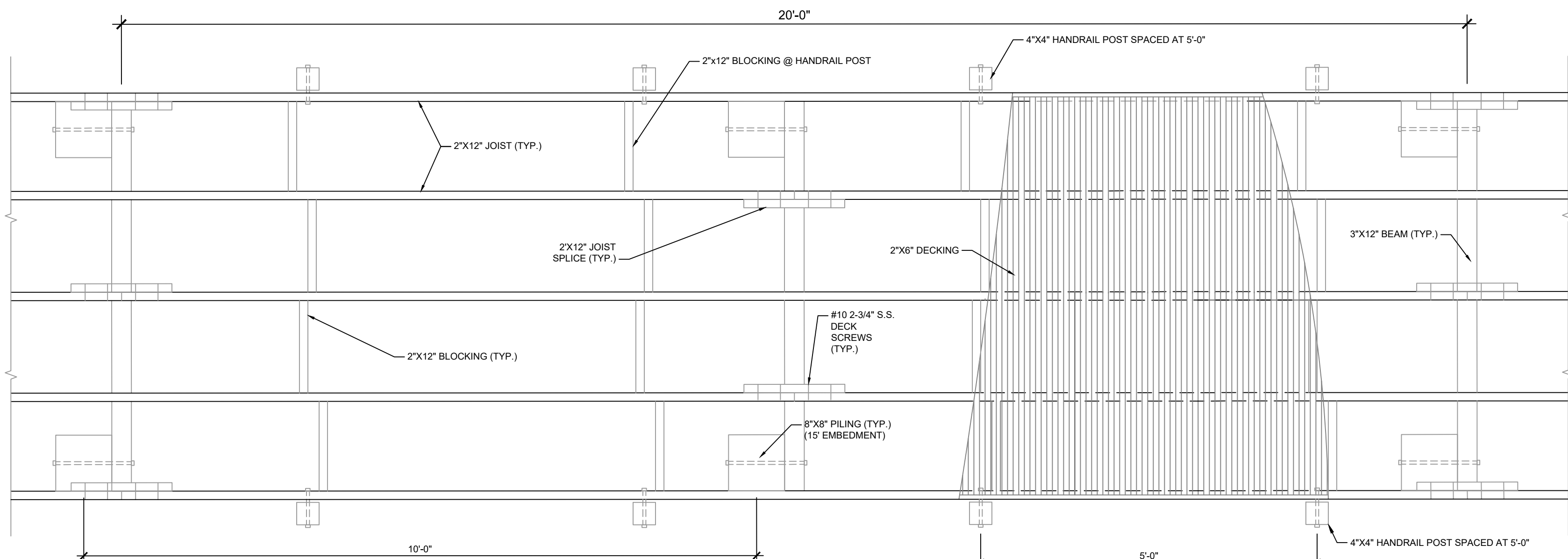
1 BOARDWALK SECTION (DETAIL PROVIDED BY CITY)

3/4" = 1'-0"



2 BOARDWALK SECTION - FRONT (DETAIL PROVIDED BY CITY)

3/4" = 1'-0"



3 BOARDWALK FRAMING PLAN (DETAIL PROVIDED BY CITY)

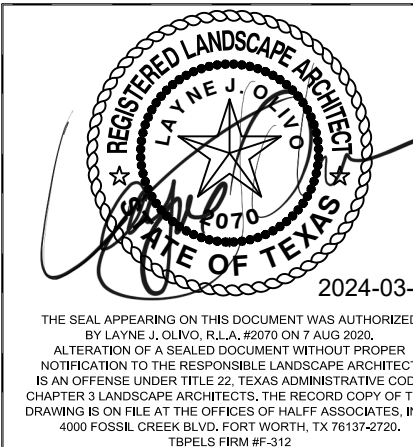
3/4" = 1'-0"

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REVISION NO.	DATE	DESCRIPTION



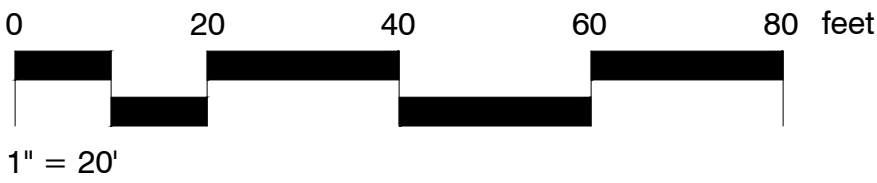
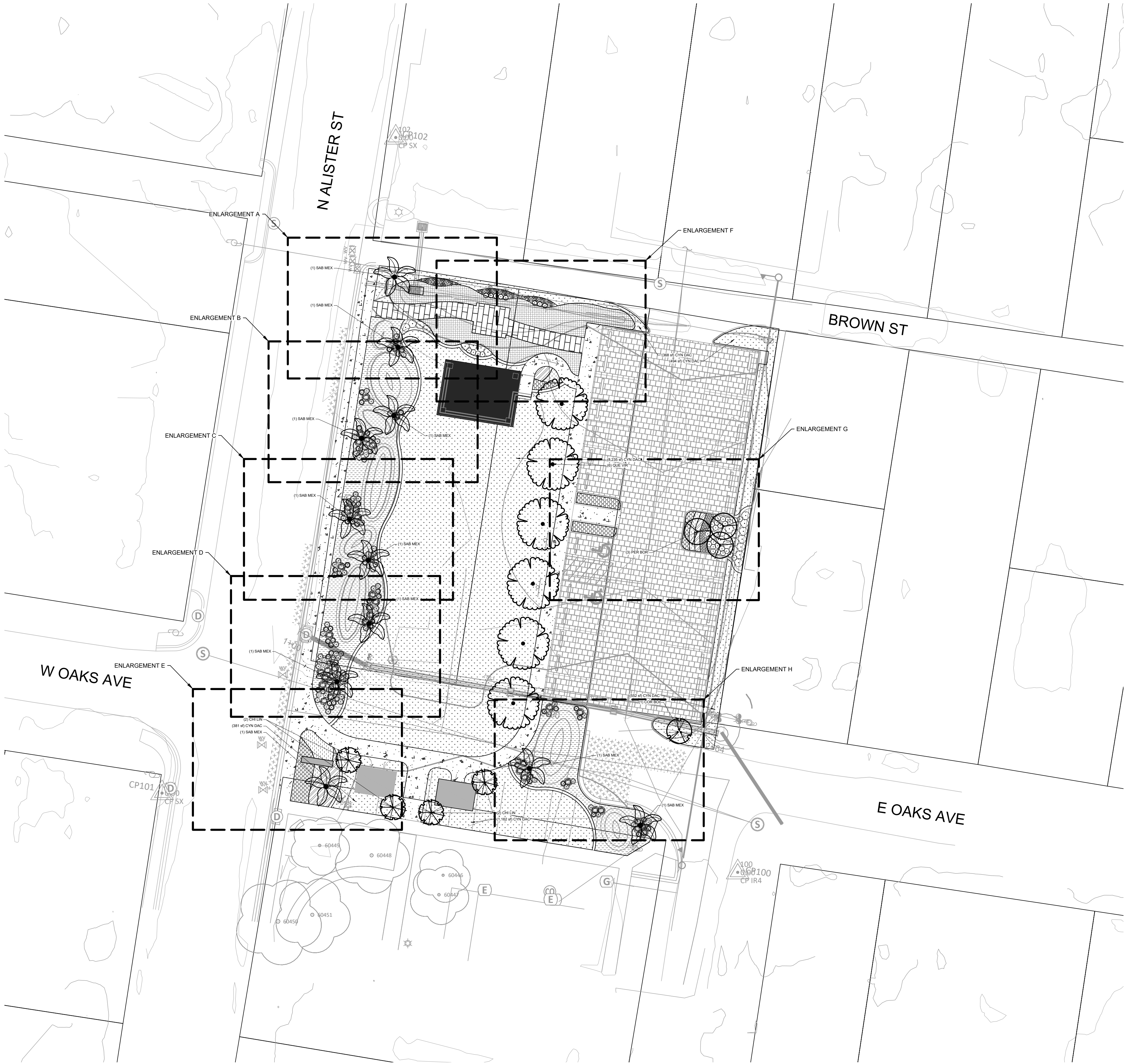
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BID SET

PROJECT NO.:
ISSUED: 2024-03-13 BID SET
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CHECKED BY: LO
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SHEET TITLE

SITE DETAILS

L1.03

FILE NAME: A:\46000s\4620\1003\LA\CADD\Sheets\L-PLAN-LAND-46201.dwg DATE: March 13, 2024, TIME: 3:35 PM, USER: ah1295 AVO: XXXXX



PLANT SCHEDULE

SYMBOL BOTANICAL / COMMON NAME

TREES

Quercus virginiana / Southern Live Oak

ORNAMENTAL TREES

Chilopsis linearis / Desert Willow

Cordia boissieri / Wild Olive

Persea borbonia / Redbay

TREES / PALM

Sabal mexicana / Texas Sabel

SHRUBS

Agave lophantha / Thorn-Crested Agave

Anisacanthus quadrifidus var. wrightii / Flame Acanthus

Chasmanthium latifolium / Inland Sea Oats

Dalea greggii / Gregg's Dalea

Hibiscus marianus / Heart-leaf Hibiscus

Muhlenbergia capillaris / Pink Muhly Grass

Sorghastrum nutans / Yellow Indian Grass

Spartina spartinae / Gulf Cordgrass

GROUND COVERS

Biorwale Planting Mix

Cynodon dactylon / Bermudagrass

Dune Planting Mix

Dyschoriste linearis / Narrowleaf Snakeherb

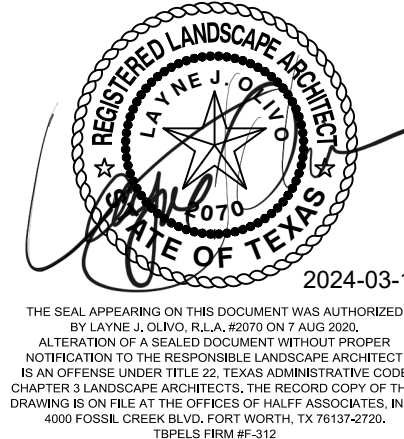
Liriope muscari / Liriope

Stemodia lanata / Gray Woolly Twintip

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PARKS AND RECREATION
DEPARTMENT
PORT ARANSAS, TX



REVISION NO	DATE	DESCRIPTION



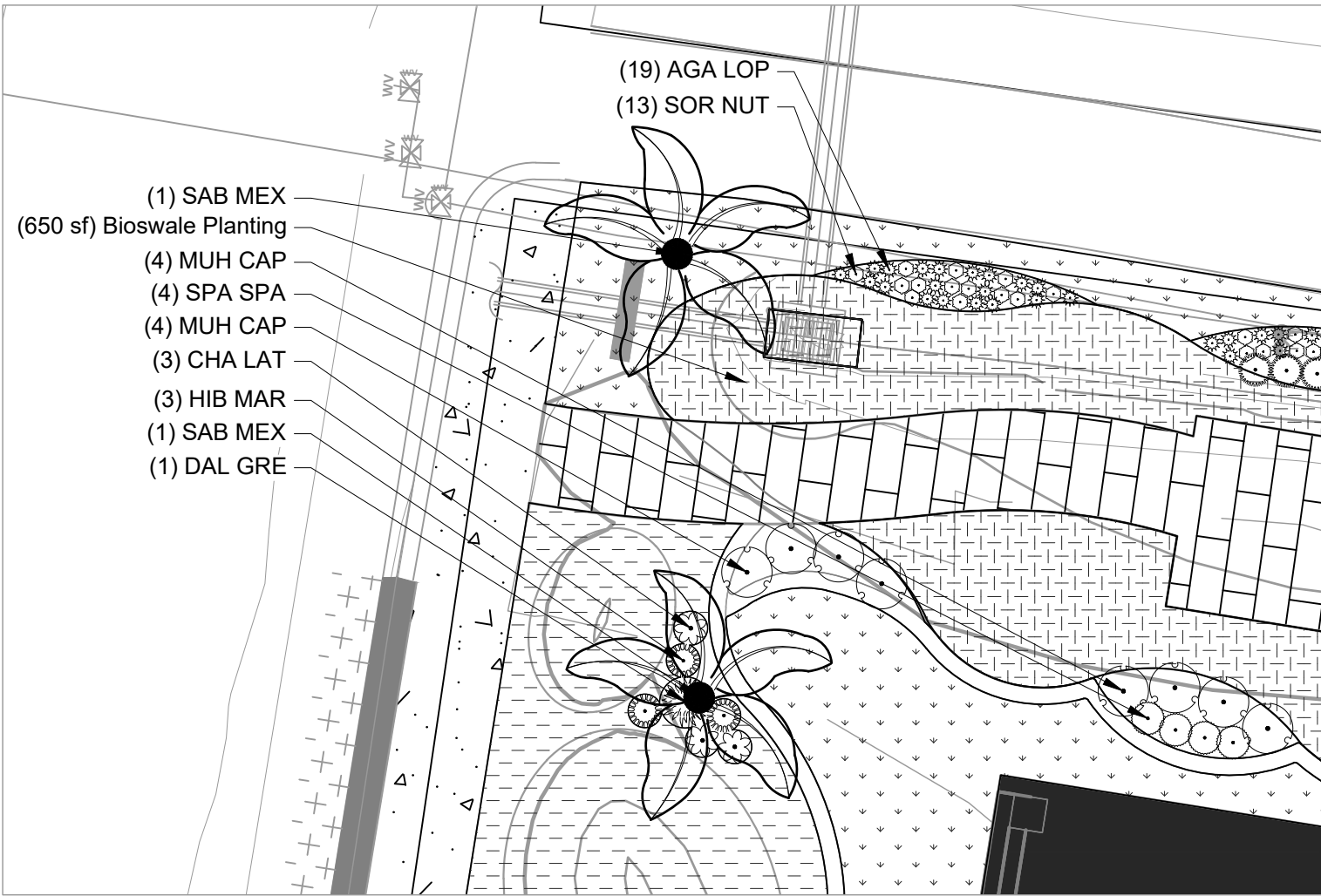
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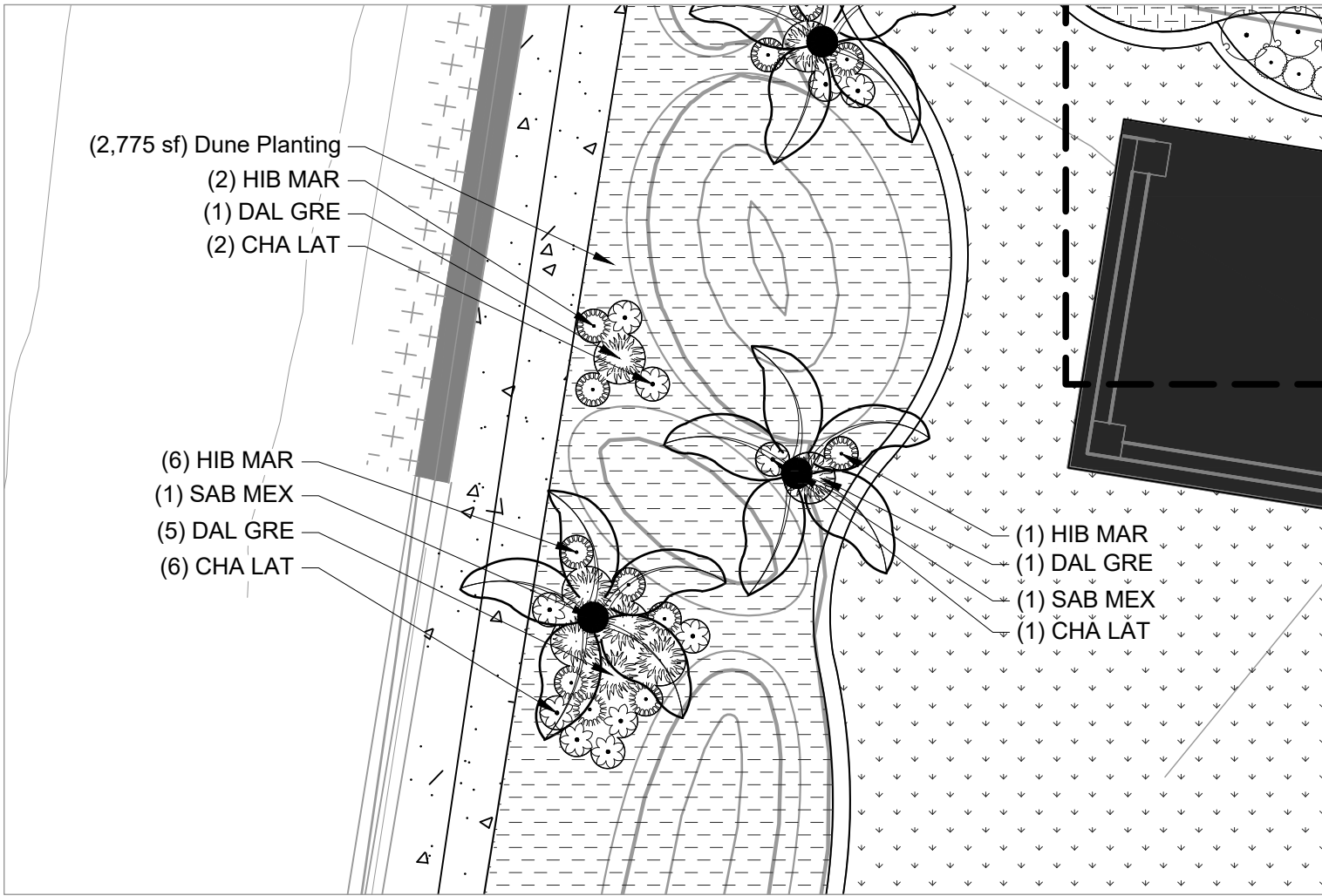
LANDSCAPE TREES AND TURF

L2.00

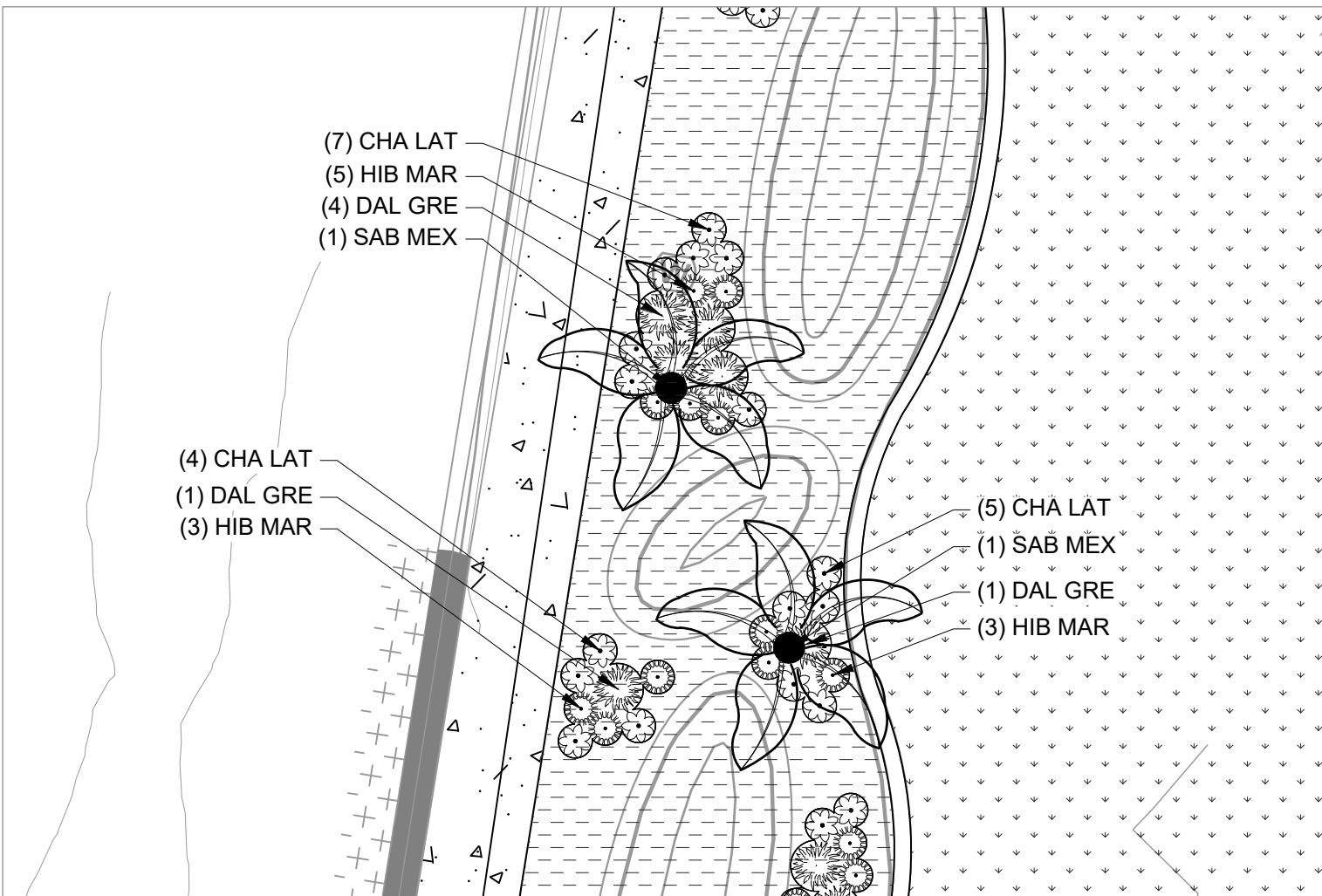
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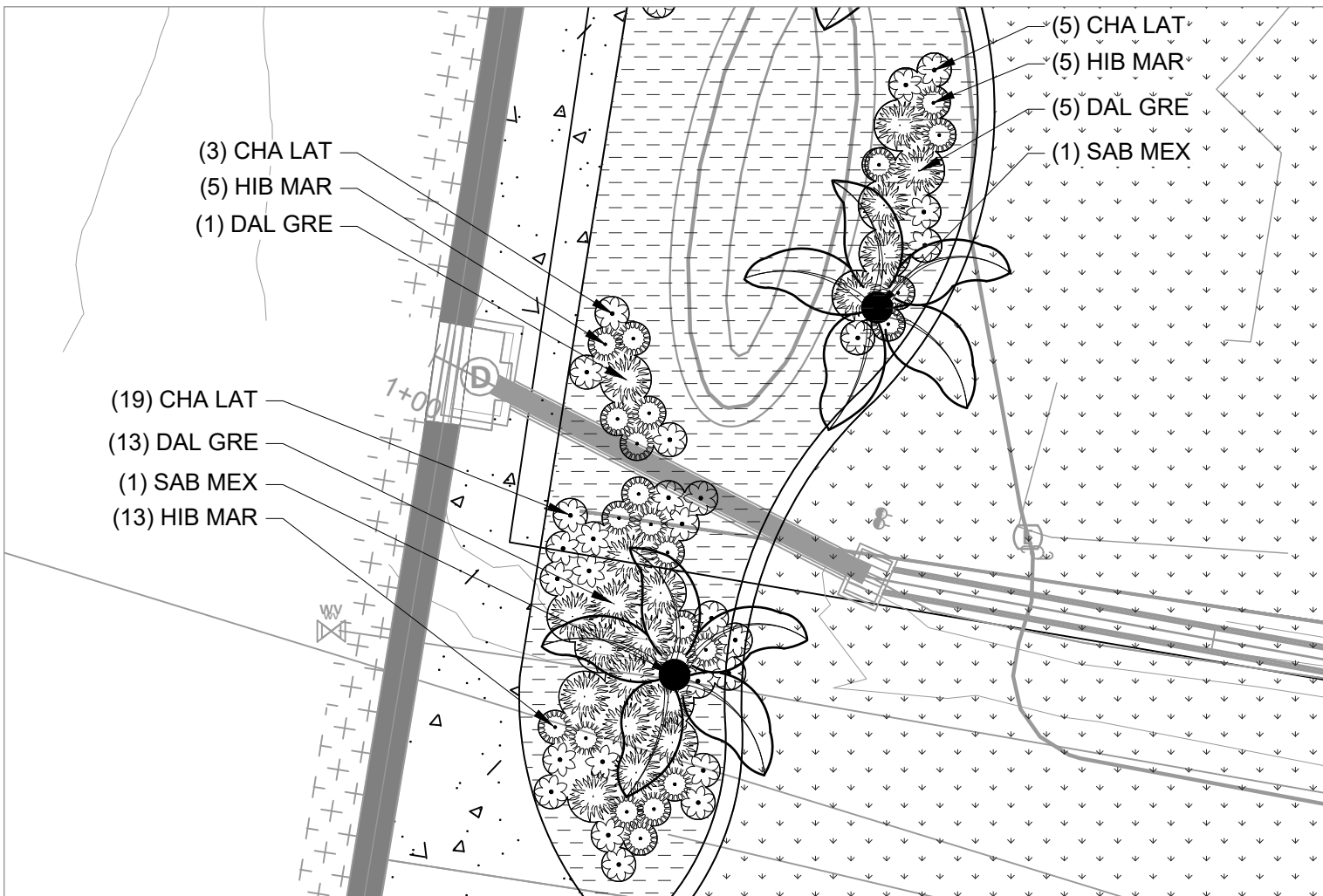
A PLANTING BED ENLARGEMENT
1" = 10'



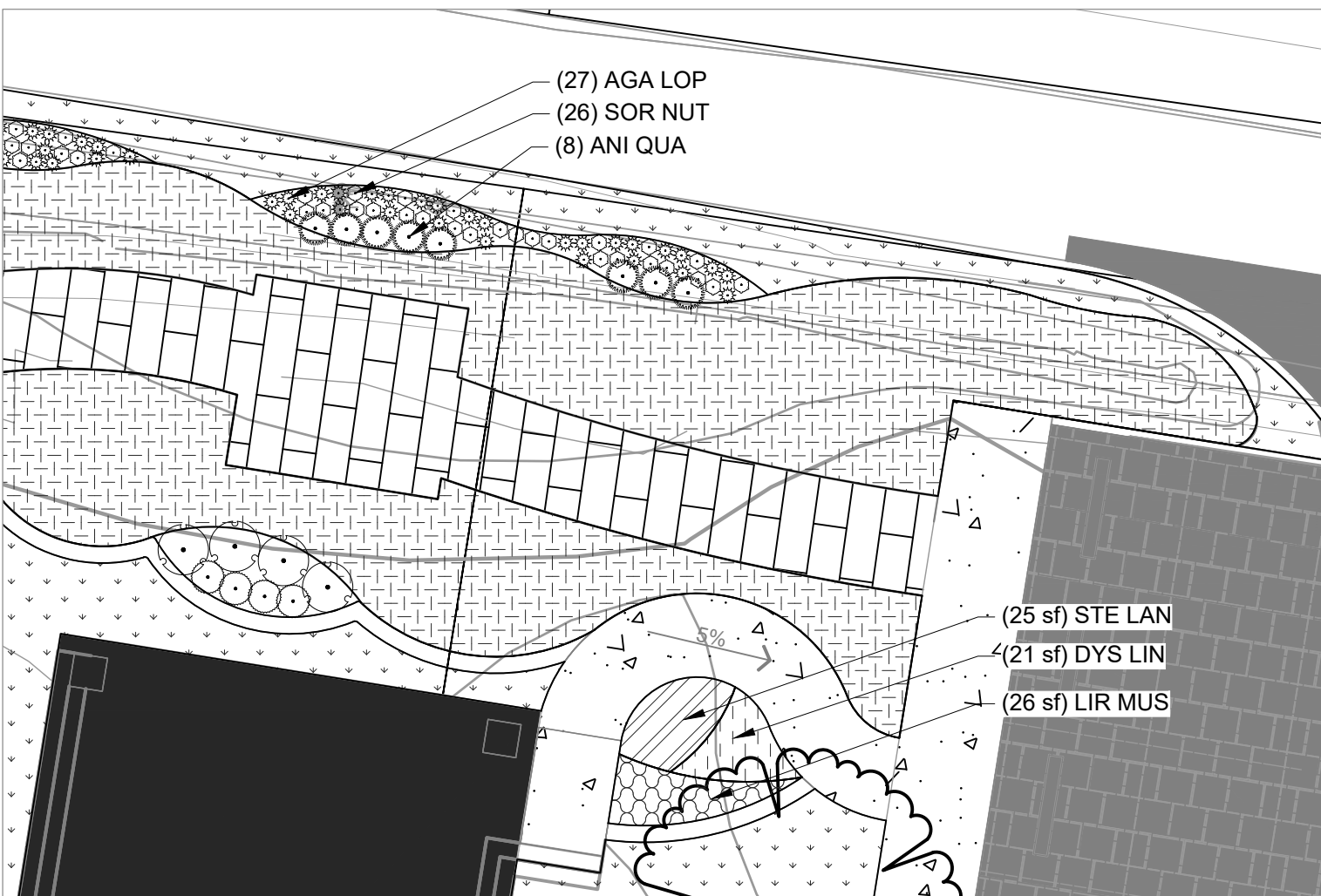
B PLANTING BED ENLARGEMENT
1" = 10'



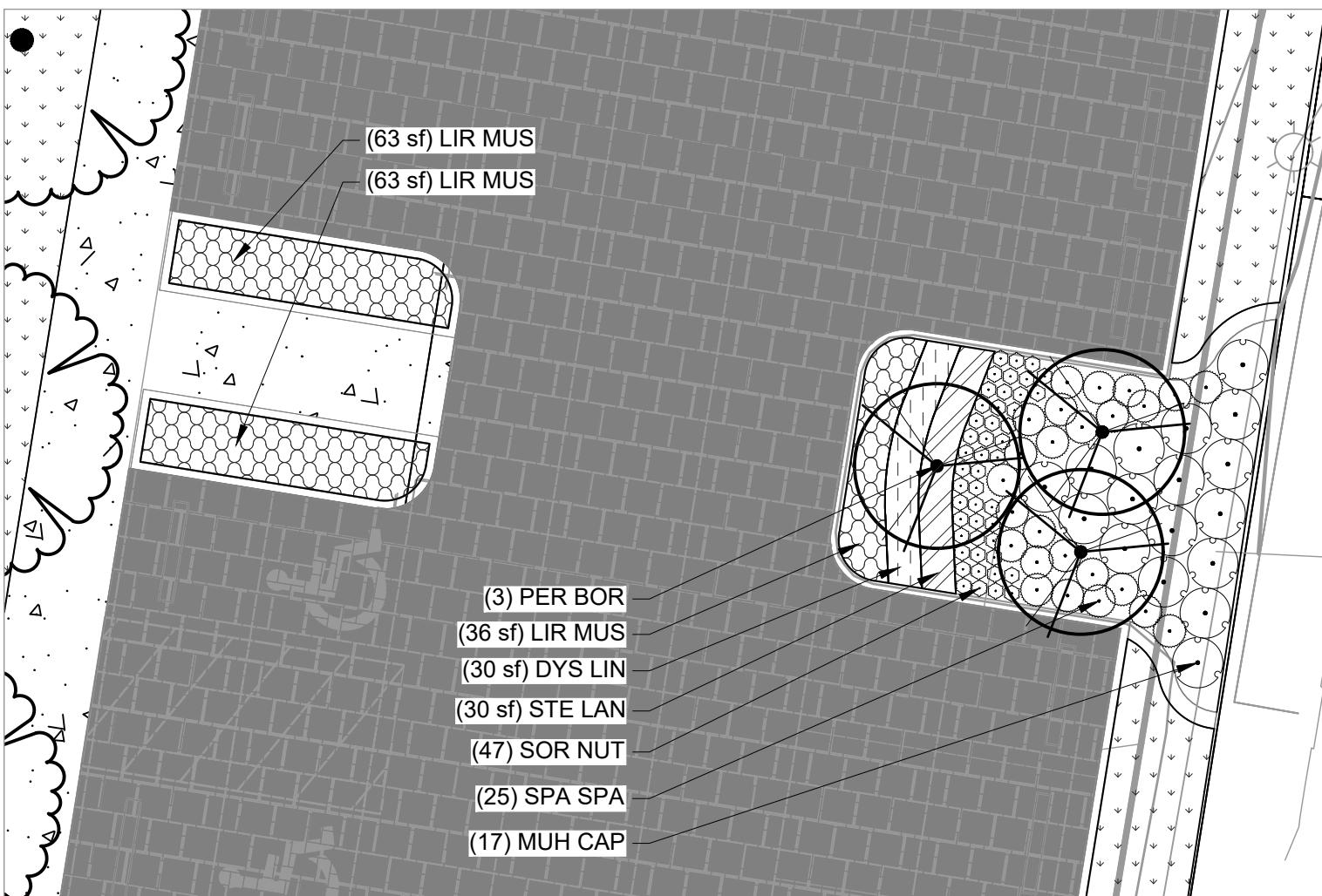
C PLANTING BED ENLARGEMENT
1" = 10'



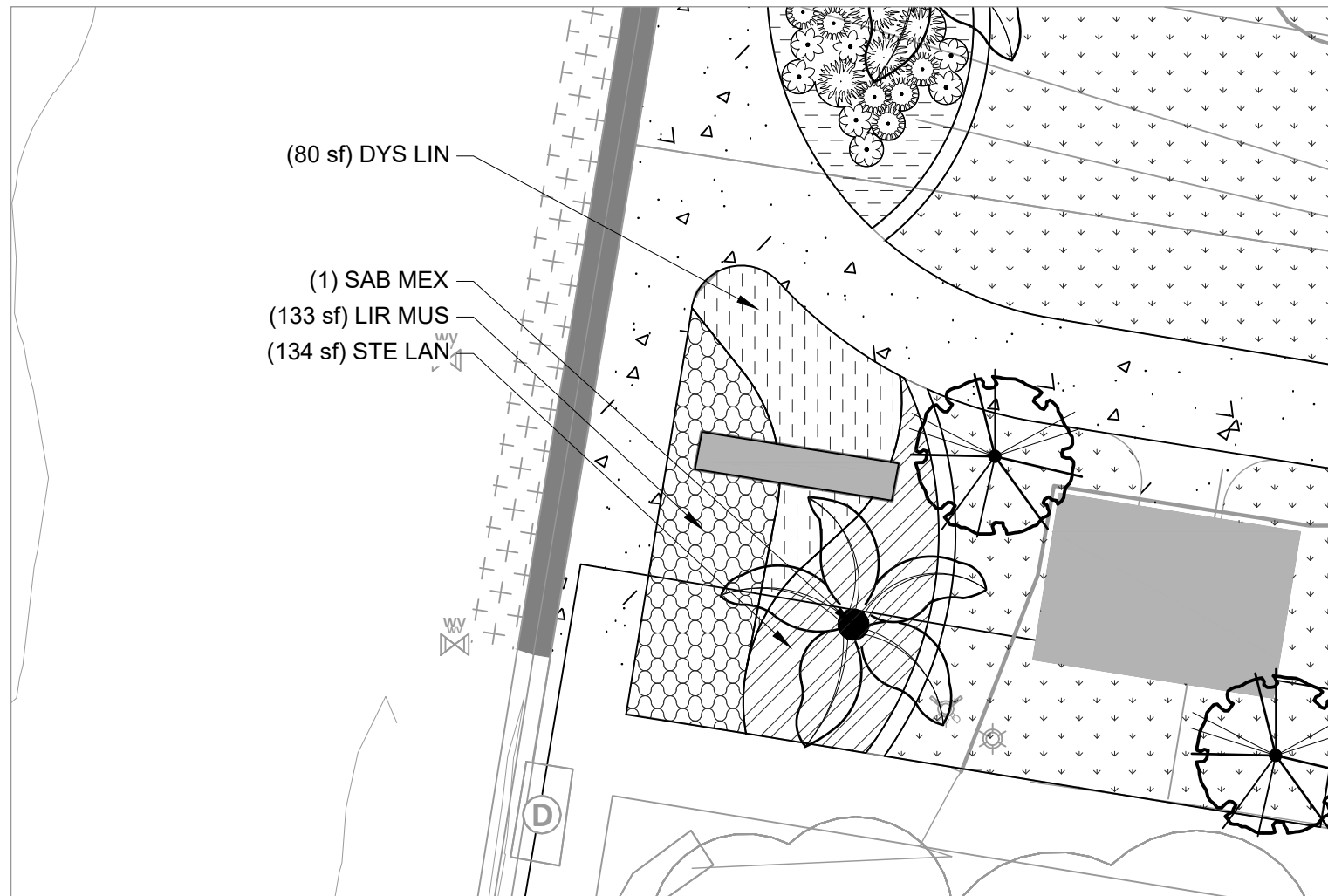
D PLANTING BED ENLARGEMENT
1" = 10'



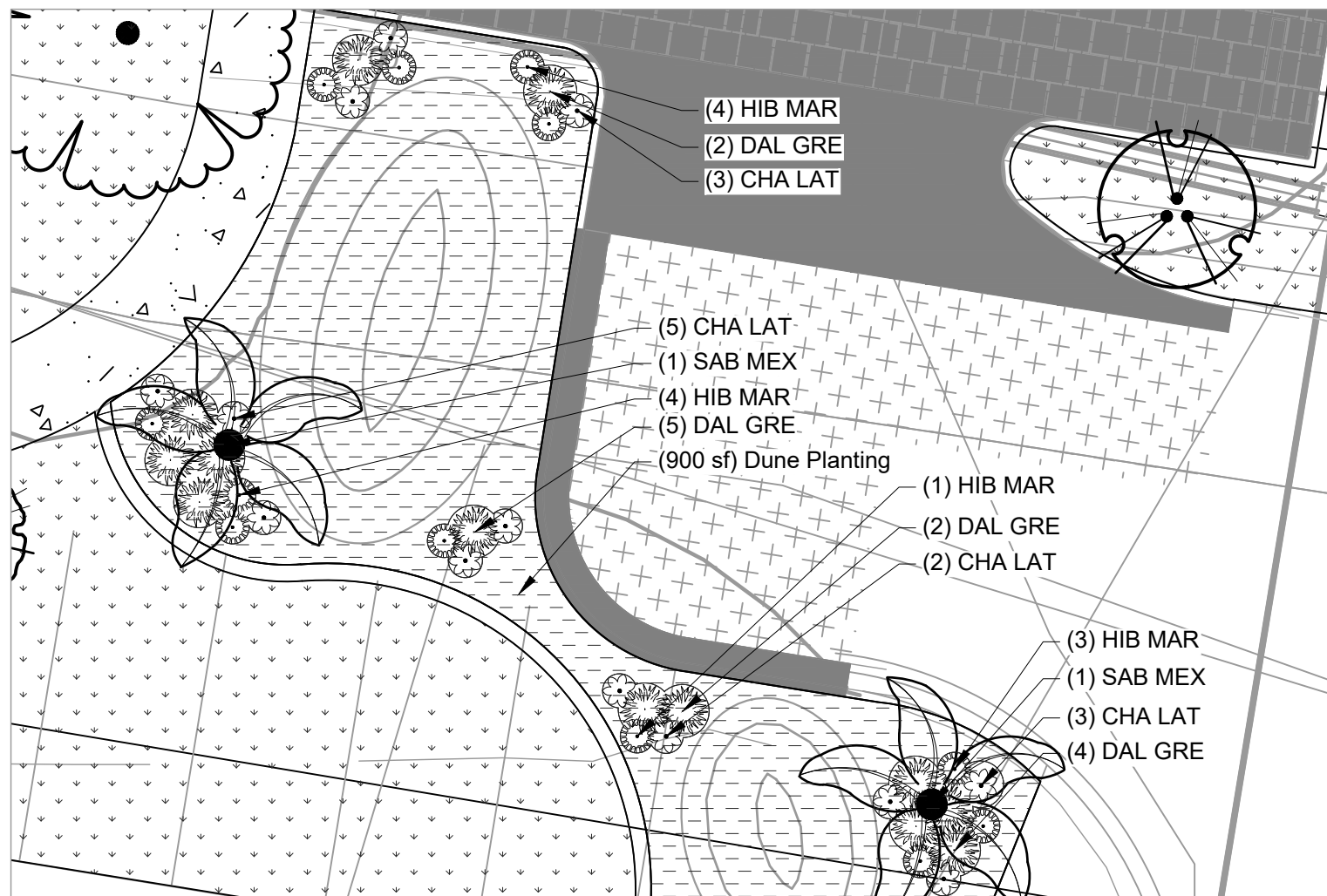
F PLANTING BED ENLARGEMENT
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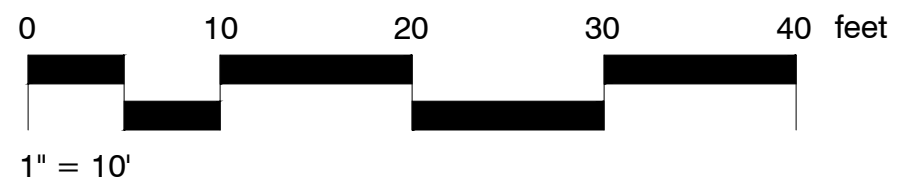
G PLANTING BED ENLARGEMENT
1" = 10'



E PLANTING BED ENLARGEMENT
1" = 10'



H PLANTING BED ENLARGEMENT
1" = 10'



PLANT SCHEDULE

SYMBOL BOTANICAL / COMMON NAME

TREES

Quercus virginiana / Southern Live Oak

ORNAMENTAL TREES

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Coriaria boissieri / Wild Olive

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Agave lophantha / Thorn-Crested Agave

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Hibiscus martianus / Heart-leaf Hibiscus

Muhlenbergia capillaris / Pink Muhly Grass

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Dune Planting Mix

Dyschoriste linearis / Narrowleaf Snakeherb

Liriope muscari / Liriope

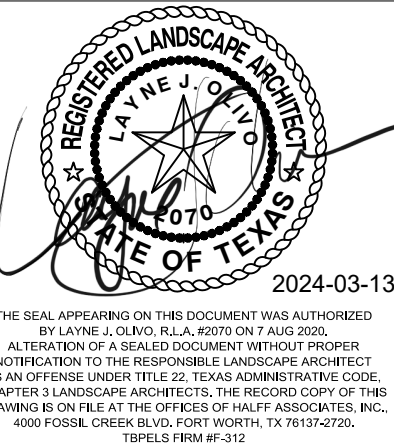
Stemodia lanata / Gray Woolly Twintip

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RICHARDSON, TX 75081
TEL (214) 346-6200

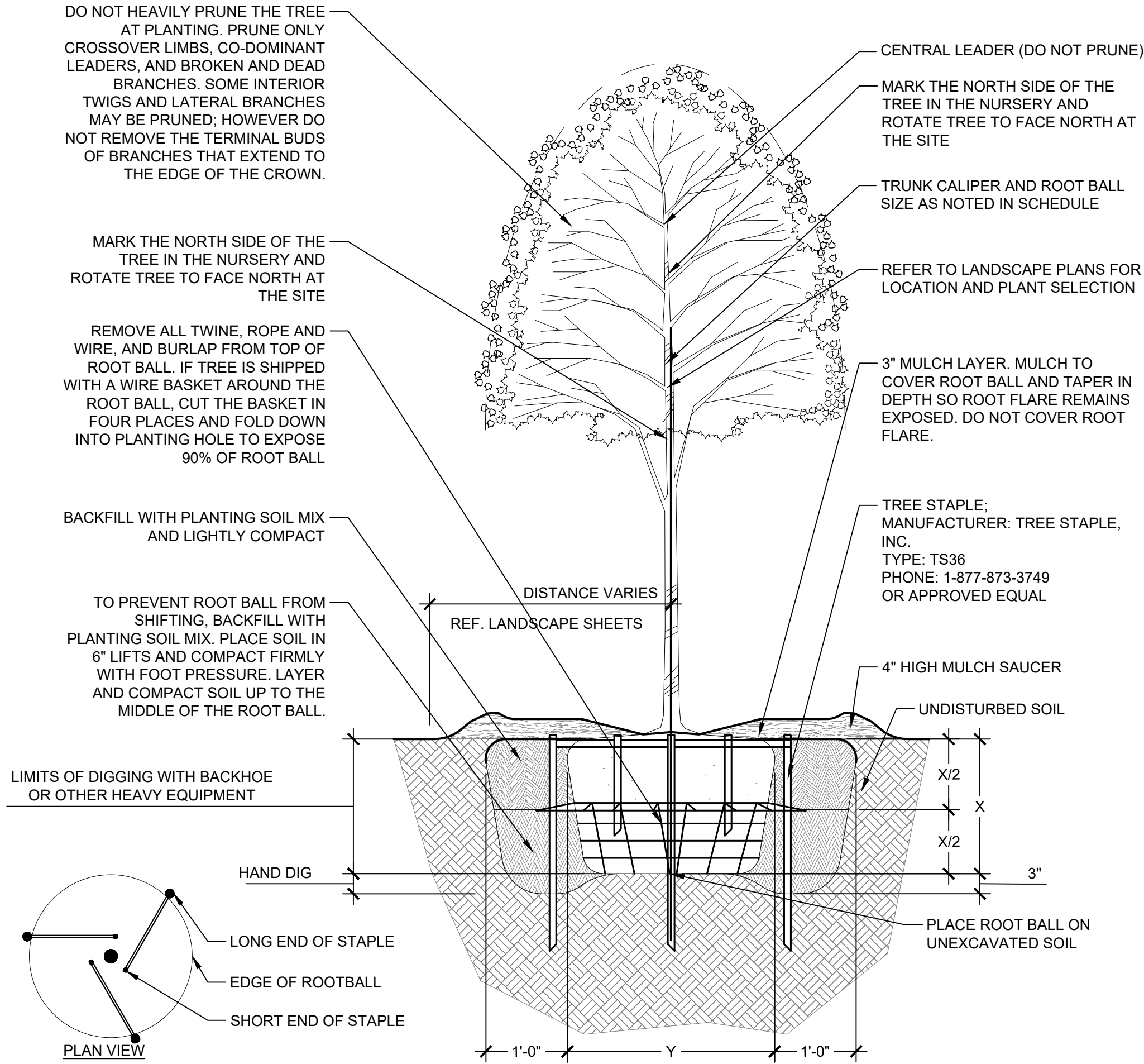
REVISION NO.	DATE	DESCRIPTION



**100%
BID SET**

PROJECT NO.:
ISSUED: 2024-03-13 BID SET
DRAWN BY: CB
CHECKED BY: LO
SCALE: 1" = 20'
SHEET TITLE
LANDSCAPE PLANTING BED
ENLARGEMENTS

FILE NAME: A:\46000s\46201\003\LA\CADD\Sheets\PLAN-LAND-DET\46201.dwg DATE: March 13, 2024, TIME: 3:39 PM, USER: ah1295 AVO: XXXXX

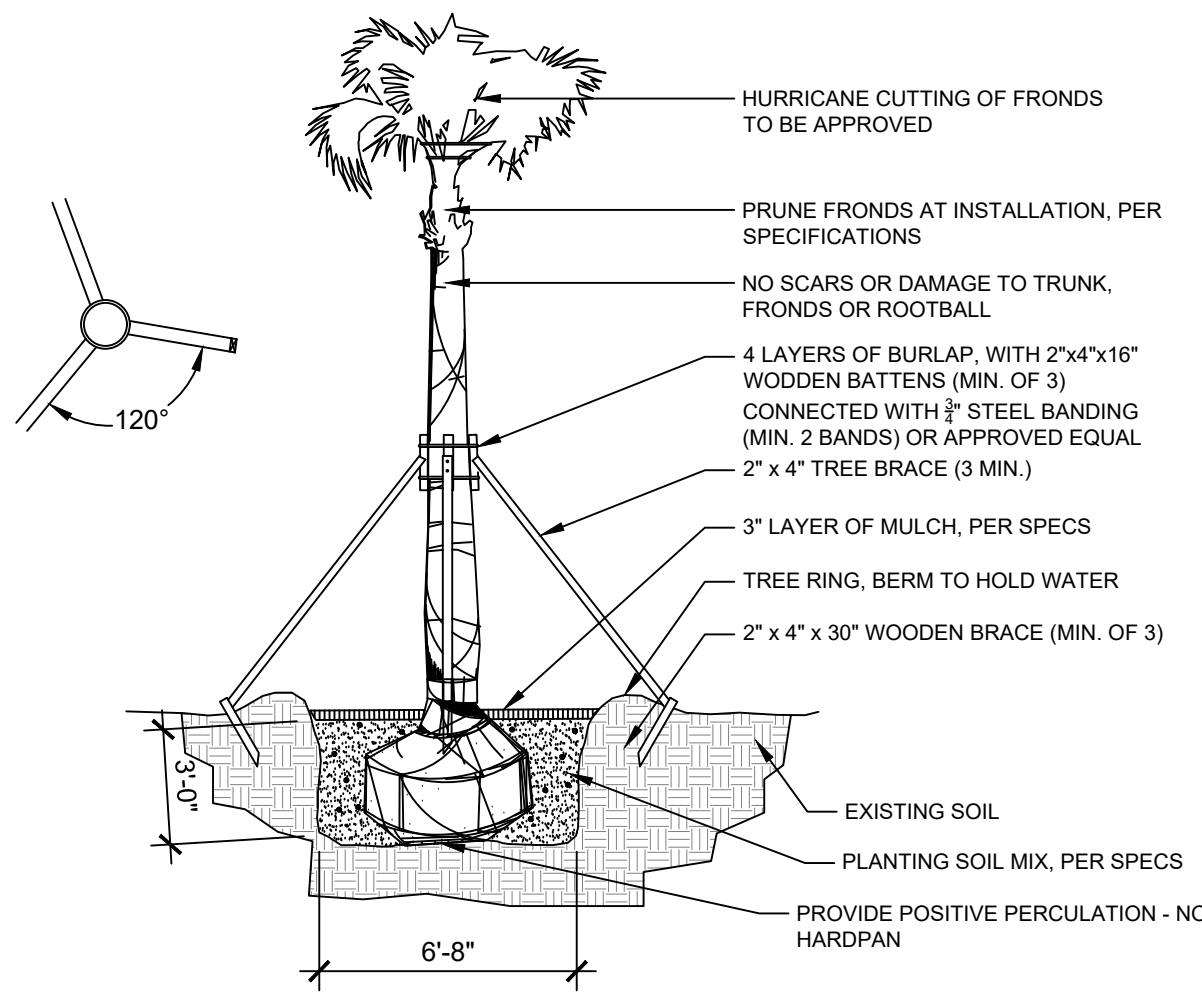


- NOTES:
1. CONTRACTOR TO STAKE TREE LOCATION FOR OWNER AND LANDSCAPE ARCHITECT APPROVAL PRIOR TO INSTALLATION.
 2. SET TREE SO THAT TOP OF ROOTBALL IS FLUSH WITH FINISHED GRADE.
 3. SAUCERS TO BE CIRCULAR IN SHAPE AND CONSISTENT IN SIZE. SLOPE SIDES TO GENTLE, UNIFORM PROFILE.
 4. DIG PIT WITH TAPERED SIDES SO THAT TOTAL WIDTH AT TOP IS 3 TIMES ROOTBALL DIAMETER.
 5. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.

X = ROOT BALL HEIGHT
Y = ROOT BALL WIDTH

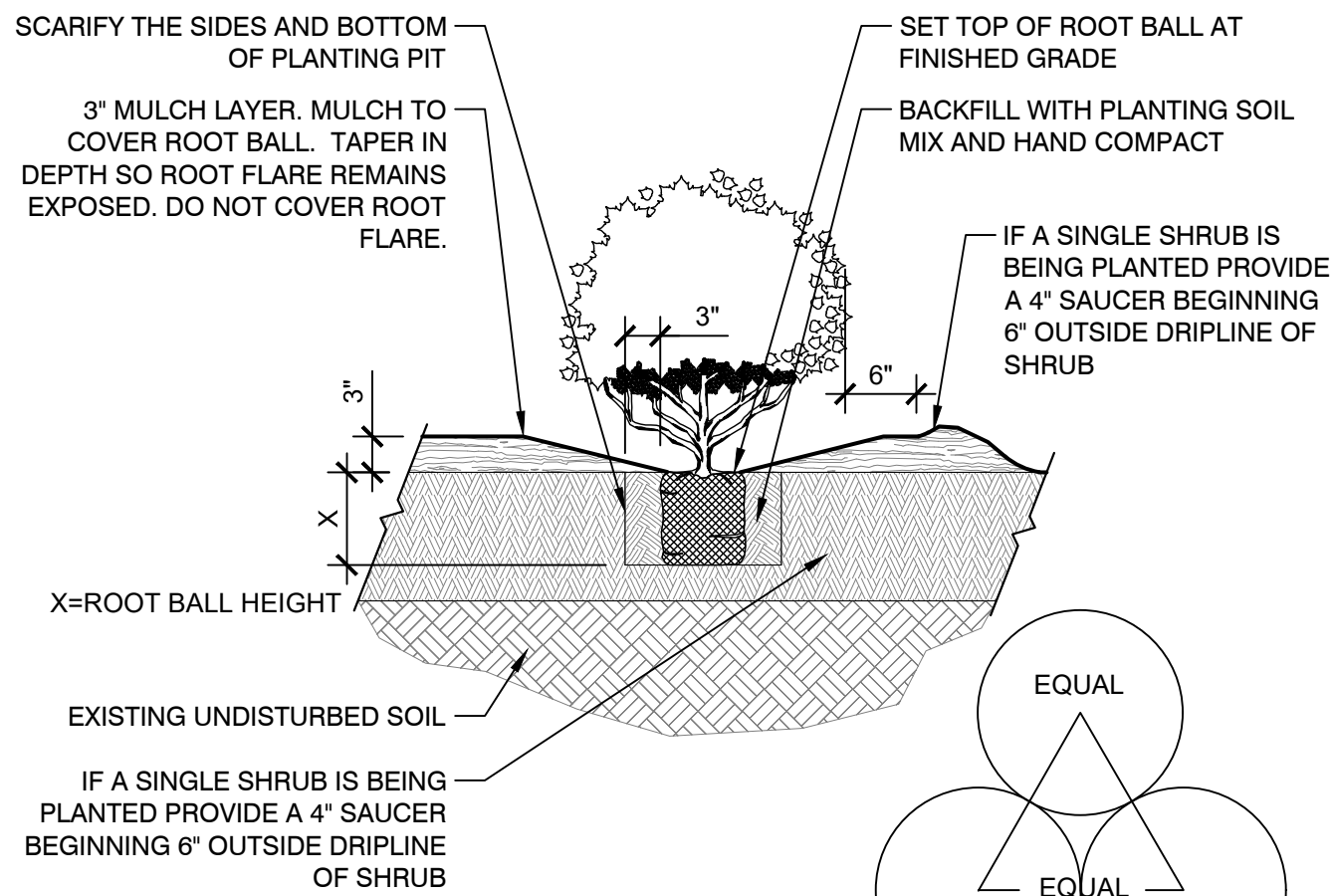
1 SINGLE-TRUNK TREE WITH STAPLES

3/4" = 1'-0"



3 PALM PLANTING AND STAKING

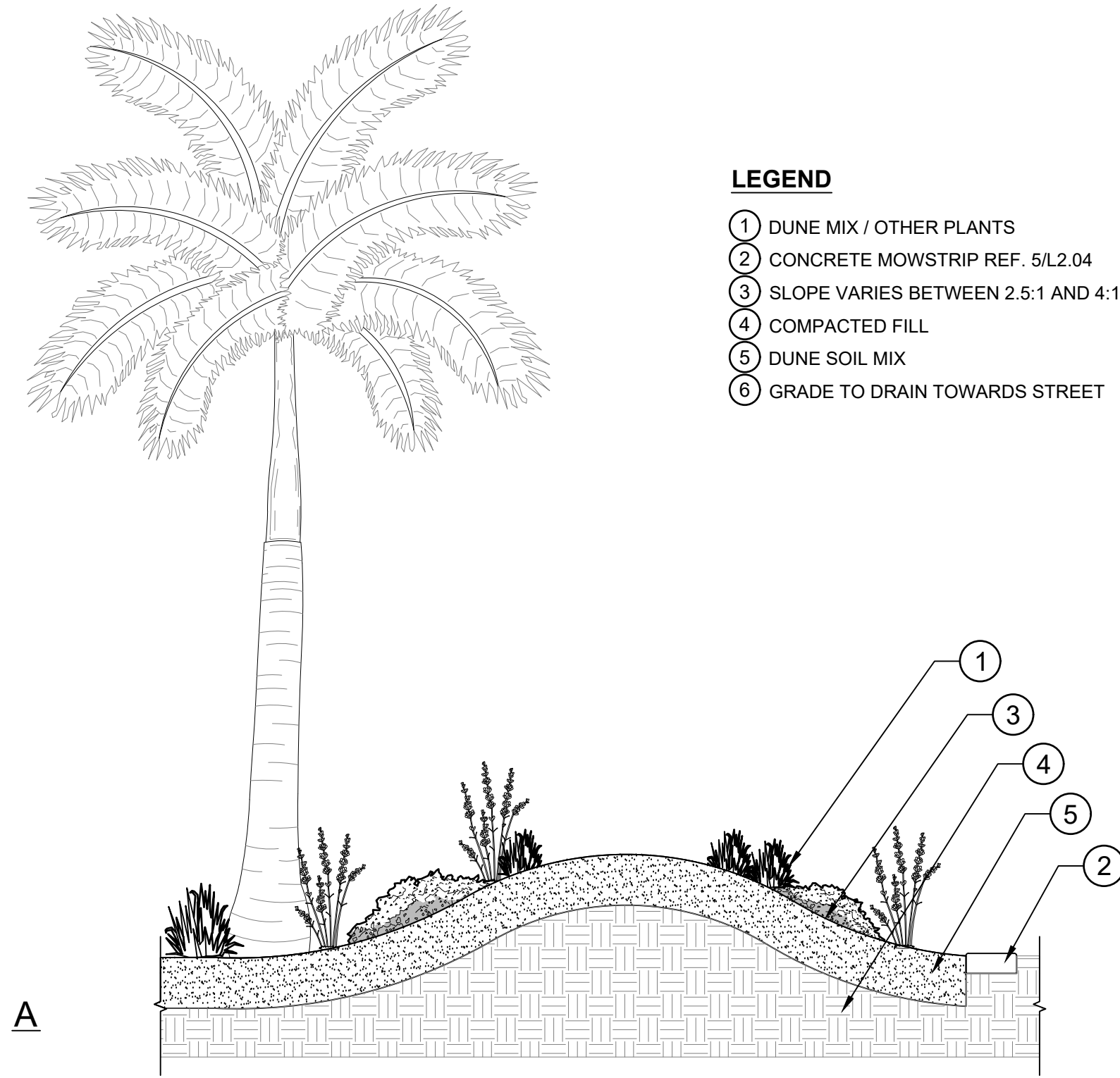
1" = 5'



4 SHRUB PLANTING DETAIL

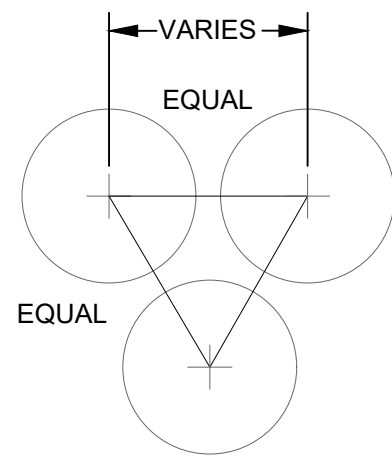
3/4" = 1'-0"

TYPICAL SPACING PLAN



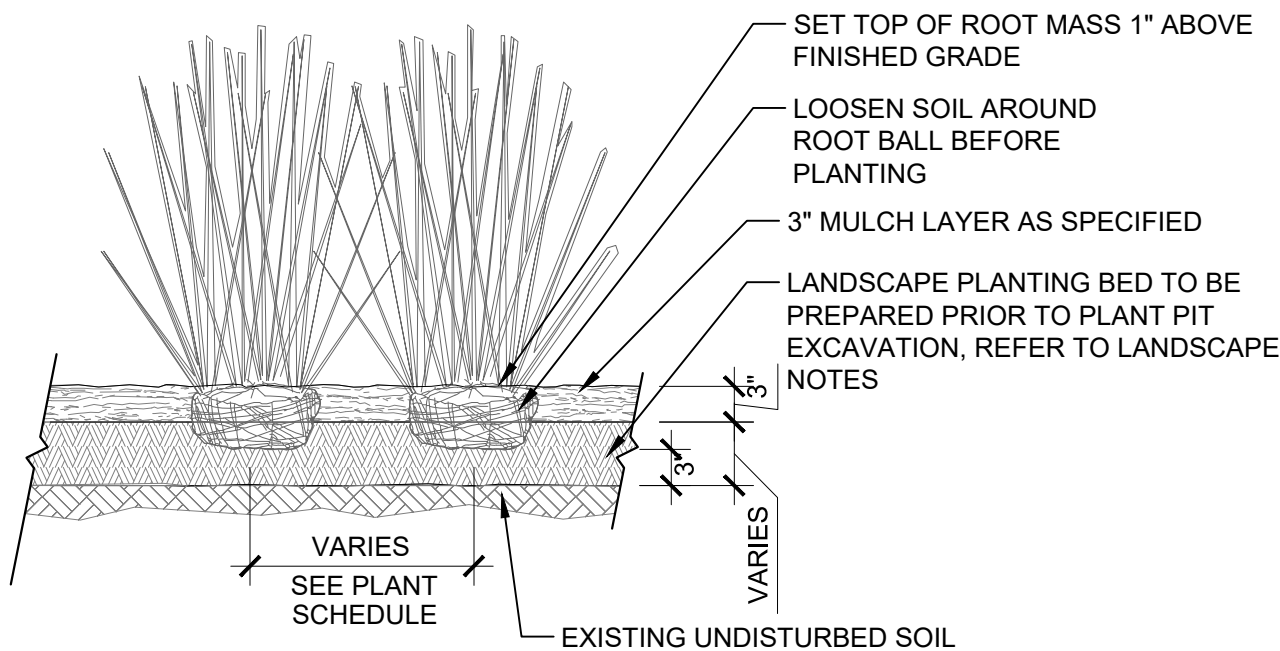
2 DUNE CONSTRUCTION DETIAL

3/8" = 1'-0"



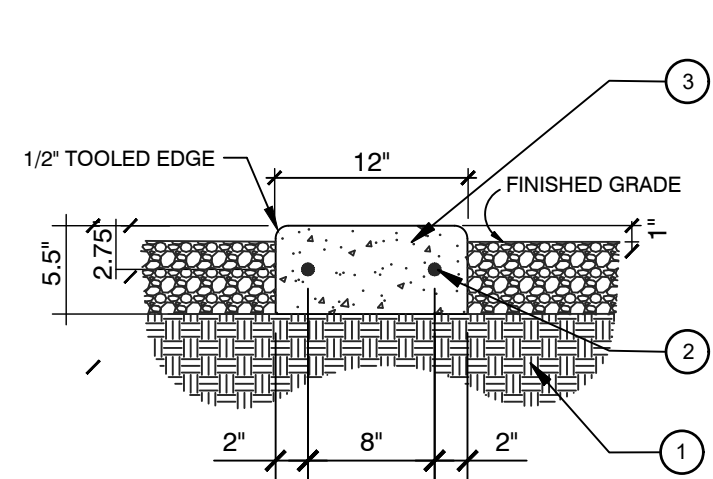
5 ORNAMENTAL GRASS

3/4" = 1'-0"



6 CONCRETE MOW STRIP

1" = 1'



KEY:

- 1 COMPACTED SUBGRADE TO 95% MAX. DENSITY.
- 2 #3 REBAR CONTINUOUS, OVERLAP JOINTS 24" STAGGER 8" O.C.
- 3 CONCRETE, 5 SACK MIX AT 2500 PSI.

NOTES:

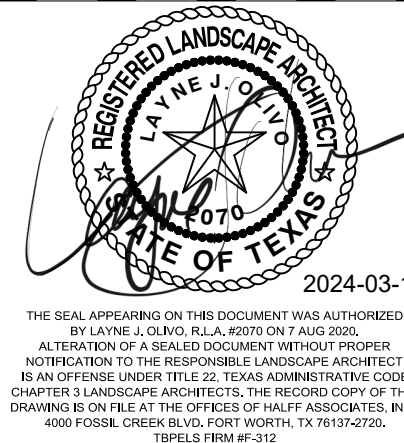
TOOLED OR SAW CUT CONTROL JOINTS ON CURB EVERY 10'

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LANDSCAPE DETAILS

L2.02


PLANT SCHEDULE

<u>SYMBOL</u>	<u>QTY</u>	<u>BOTANICAL / COMMON NAME</u>	<u>CONT</u>	<u>HT</u>	<u>SPD</u>	<u>REMARKS</u>
<u>TREES</u>						
	6	Quercus virginiana / Southern Live Oak	3" cal.	14'-16'	7'-8' Spd	



ORNAMENTAL TREES

	4	Chilopsis linearis / Desert Willow	3" cal.	8'-10'	5' SPD. MIN.	FULL AND MATCHING
	1	Corida boissieri / Wild Olive	3" cal.	8'-10'	5' SPD. MIN.	FULL AND MATCHING
	3	Persea borbonia / Redbay	3" cal.	8'-10'	5' SPD. MIN.	FULL AND MATCHING

TREES / PALM


	11	Sabal mexicana / Texas Sabal	3" cal.	14'-16' Ht
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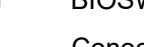
SHRUBS

	46	Agave lophantha / Thorn-Crested Agave	3 gal.	8"-12" Ht	4"-6" Spd	TRIANGULAR SPACING, PLANT IN GROUPS OF ODD-NUMBERED PLANTS
	8	Anisacanthus quadrifidus var. wrightii / Flame Acanthus	3 gal.	2' HT. MIN.	1'-3' Spd	TRIANGULAR SPACING, PLANT IN GROUPS OF ODD-NUMBERED PLANTS
	68	Chasmanthium latifolium / Inland Sea Oats	3 gal.	1'-2' Ht	1'-3' Spd	TRIANGULAR SPACING, PLANT IN GROUPS OF ODD-NUMBERED PLANTS
	46	Dalea greggii / Gregg's Dalea	3 gal.	6"-8"	1'-3' Spd	TRIANGULAR SPACING, PLANT IN GROUPS OF ODD-NUMBERED PLANTS
	58	Hibiscus martianus / Heart-leaf Hibiscus	3 gal.	1'-3' Ht.	1'-3' Spd	TRIANGULAR SPACING, PLANT IN GROUPS OF ODD-NUMBERED PLANTS
	25	Muhlenbergia capillaris / Pink Muhly Grass	5 gal.	2' HT. MIN.	2' SPD. MIN.	TRIANGULAR SPACING, PLANT IN GROUPS OF ODD-NUMBERED PLANTS
	86	Sorghastrum nutans / Yellow Indian Grass	5 gal.	1'-3' Ht.	6"-8" Spd	TRIANGULAR SPACING, PLANT IN GROUPS OF ODD-NUMBERED PLANTS
	29	Spartina spartinae / Gulf Cordgrass	5 gal.	1'-2' Ht	6"-12" Spd	TRIANGULAR SPACING, PLANT IN GROUPS OF ODD-NUMBERED PLANTS

<u>SYMBOL</u>	<u>QTY</u>	<u>BOTANICAL / COMMON NAME</u>	<u>CONT</u>	<u>HT</u>	<u>SPD</u>	<u>SPACING</u>	<u>REMARKS</u>
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SHRUB AREAS

	3,299 sf	DUNE PLANTING					TRIANGULAR SPACING, PLANT IN GROUPS OF ODD-NUMBERED PLANTS		
	244	Aristida purpurea / Purple Threeawn	3 gal.	8"-12" Ht	6"-8" Spd	16% @ 18" o.c.			
	137	Bouteloua curtipendula / Side Oats Grama	3 gal.	8"-12" Ht	6"-8" Spd	16% @ 24" o.c.			
	65	Dalea frutescens / Black Dalea	3 gal. or 5 gal.	12"-14" Ht	18"-24"	17% @ 36" o.c.			
	146	Dalea greggii / Trailing Indigo Bush	5 gal.	4" Ht	16"-18" Spd	17% @ 24" o.c.			
	37	Muhlenbergia lindheimeri / Lindheimer's Muhly	5 gal.	24-30" Ht	20"-24" Spd	17% @ 48" o.c.			
	146	Spartina spartinae / Gulf Cordgrass	3 gal.	12"-14" Ht	6"-8" Spd	17% @ 24" o.c.			

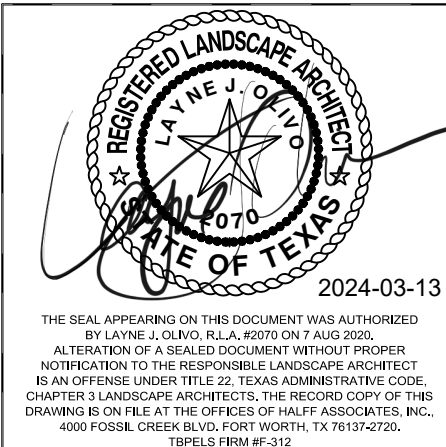
	1,065 sf	BIOSWALE PLANTING				TRIANGULAR SPACING, PLANT IN GROUPS OF ODD-NUMBERED PLANTS			
	11	Conoclinium betonicifolium / Betony Leaf Thoroughwort	3 gal.	8"-12" Ht	6"-8" Spd	9% @ 36" o.c.			
	44	Conoclinium greggii / Gregg's Mistflower	1 gal.	8"-12" Ht	6"-8" Spd	9% @ 18" o.c.			
	99	Coreopsis lanceolata / Lanceleaf Tickseed	1 gal.	8"-12" Ht	6"-8" Spd	9% @ 12" o.c.			
	44	Hemerocallis x 'Stella de Oro' / Stella de Oro Daylily	1 gal.	10"-15"	6"-8" Spd	9% @ 18" o.c.			
	49	Hymenocallis liriosme / Spider Lily	1 gal. or 3 gal.	10"-15"	6"-8" Spd	10% @ 18" o.c.			
	99	Monarda punctata / Spotted Horsemint	1 gal.	15"-18" Ht	15"-18" Spd	9% @ 12" o.c.			
	11	Muhlenbergia capillaris 'Gulf Coast' / Gulf Coast Pink Muhly Grass	5 gal.	24" Ht	24"	9% @ 36" o.c.			
	6	Sabal minor Blountstown Dwarf / Blountstown Dwarf Palmetto	5 gal.	36" Ht	24"-28"	9% @ 48" o.c.			
	44	Salvia coccinea / Scarlet Sage	1 gal. or 3 gal.	18"-20" Ht	14"-16" Spd	9% @ 18" o.c.			
11	Salvia x 'Indigo Spires' / Indigo Spires Sage	1 gal.	18"-20" Ht	14"-16" Spd	9% @ 36" o.c.				
44	Sorghastrum nutans / Indian Grass	1 gal.	20"-24" Ht	6"-8" Spd	9% @ 18" o.c.				

SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT	SPACING	REMARKS
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GROUND COVERS

	11,434 sf	Cynodon dactylon / Bermudagrass	Sod
	154 sf	Dyschoriste linearis / Narrowleaf Snakeherb	Seed
	321 sf	Liriope muscari / Liriope	Seed
	189 sf	Stemodia lanata / Gray Woolly Twintip	Seed

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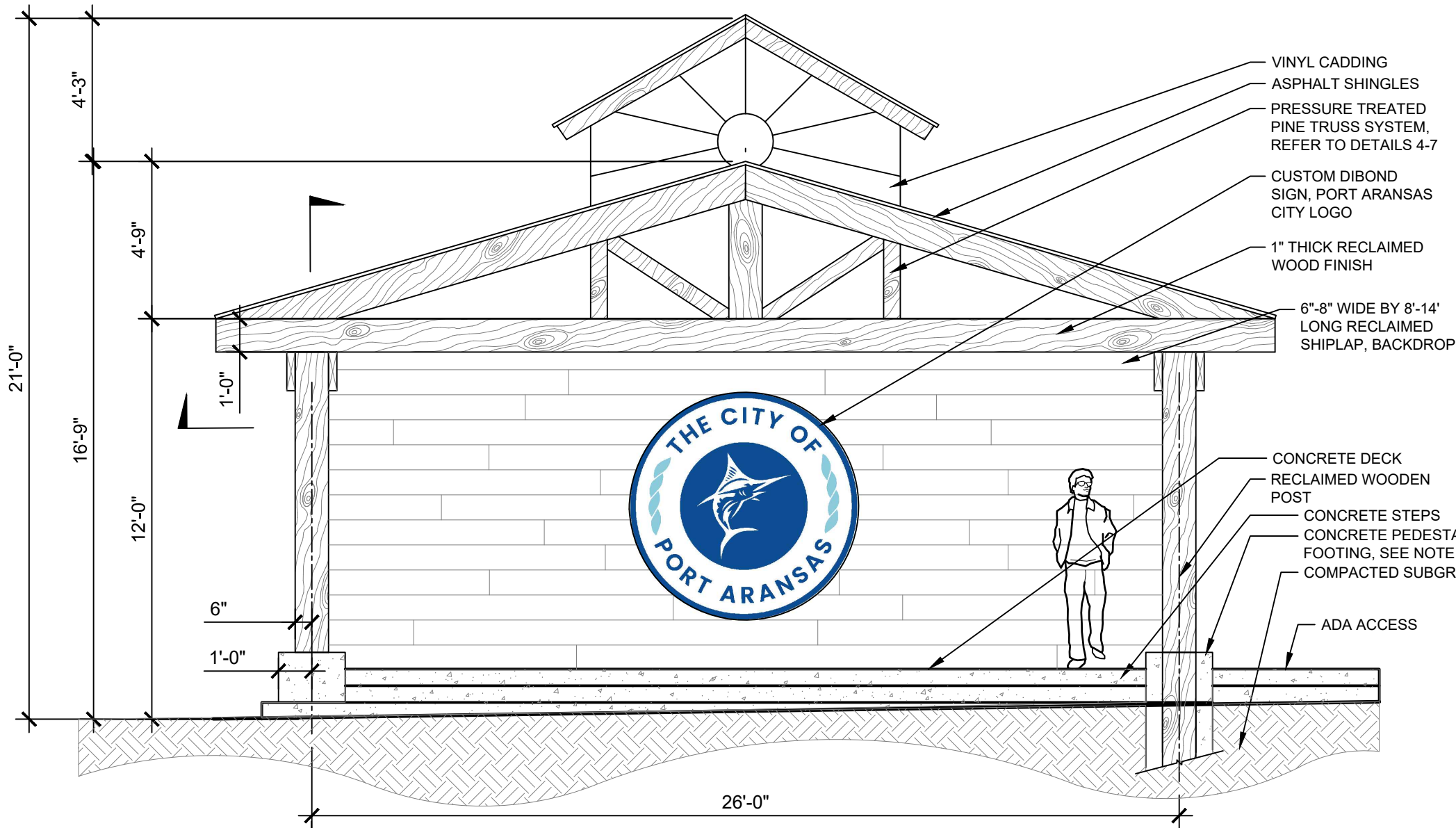
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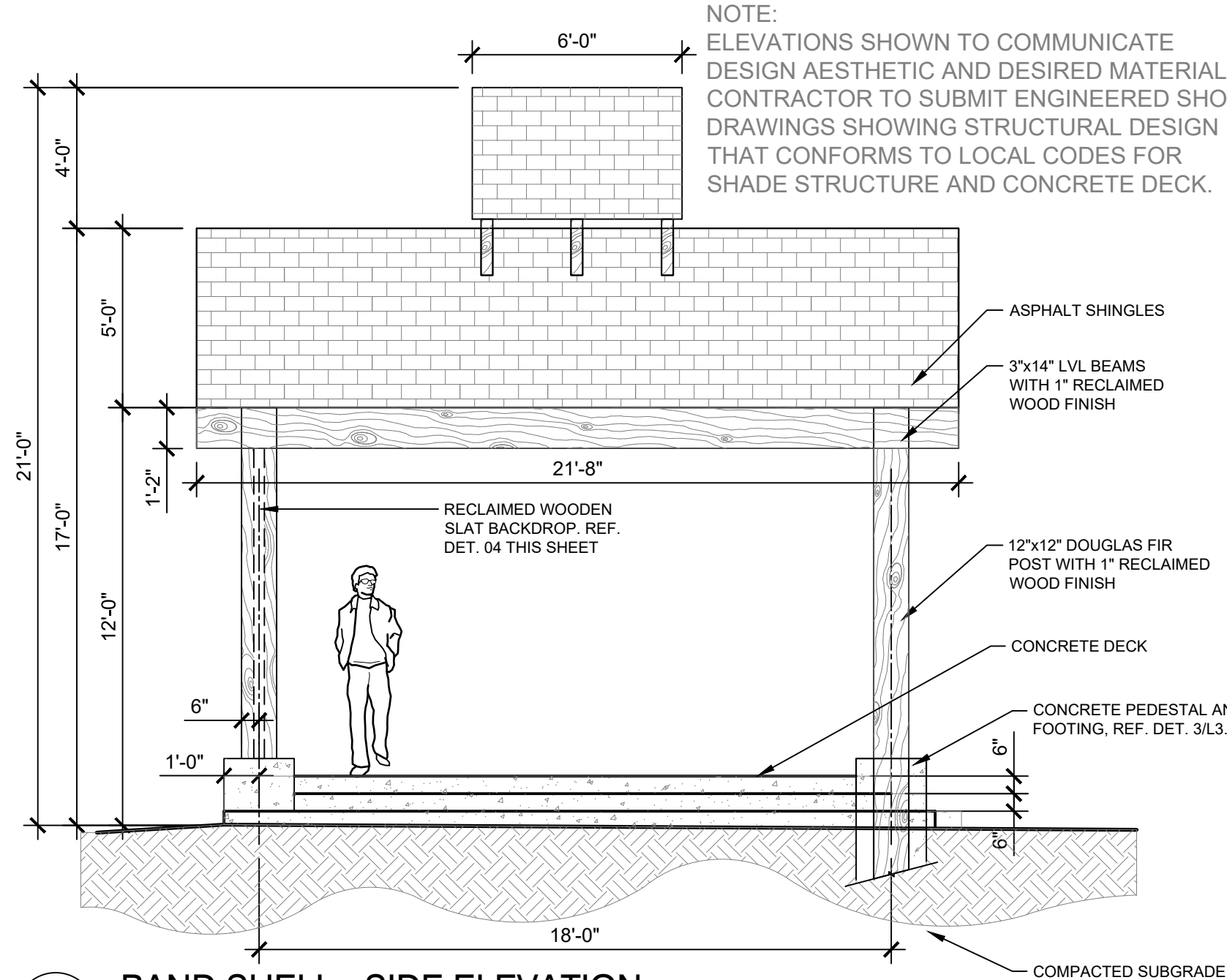
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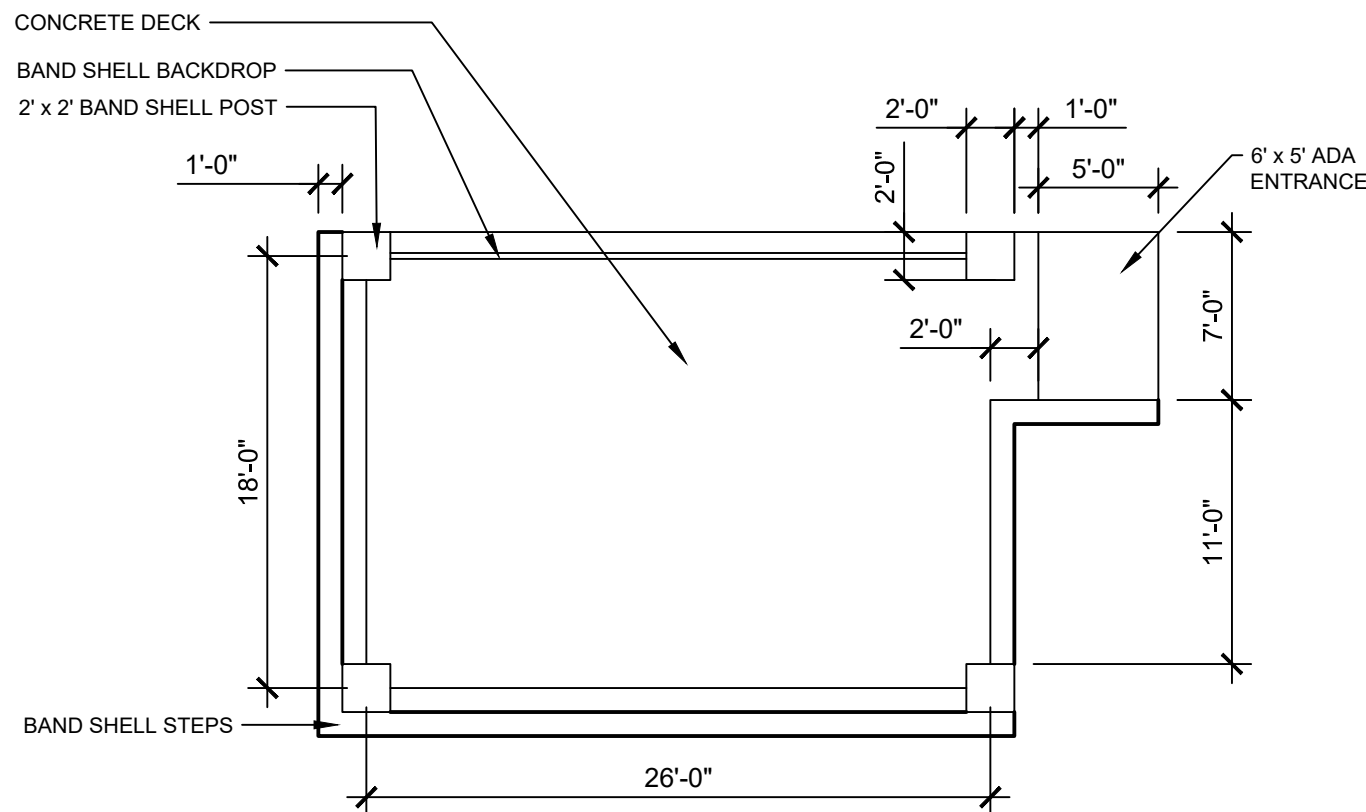
1 BAND SHELL - FRONT ELEVATION
1/4" = 1'-0"

NOTE:
ELEVATIONS SHOWN TO COMMUNICATE DESIGN AESTHETIC AND DESIRED MATERIALS. CONTRACTOR TO SUBMIT ENGINEERED SHOP DRAWINGS SHOWING STRUCTURAL DESIGN THAT CONFORMS TO LOCAL CODES FOR SHADE STRUCTURE AND CONCRETE DECK.

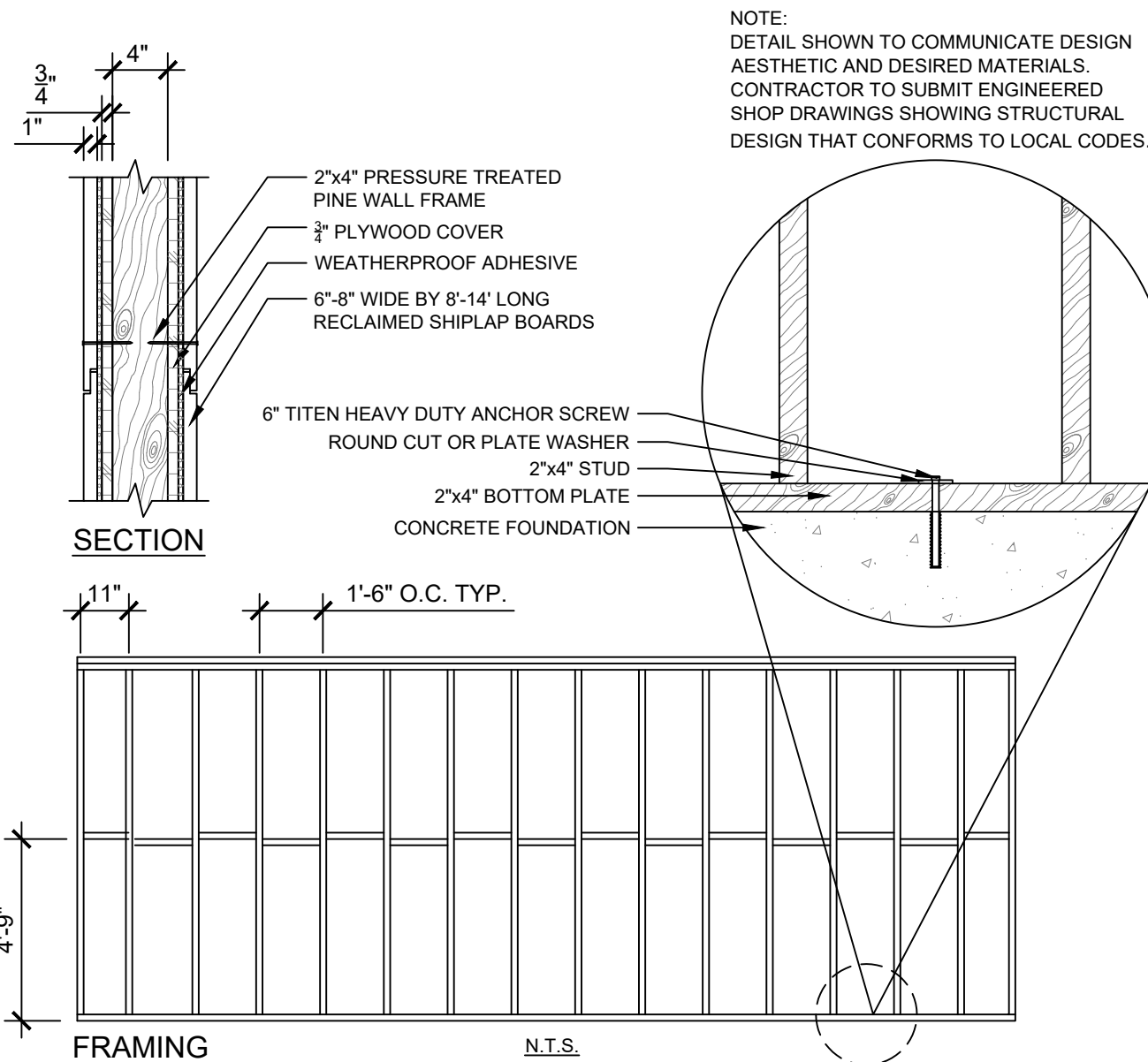


2 BAND SHELL - SIDE ELEVATION
1/4" = 1'-0"

NOTE:
ELEVATIONS SHOWN TO COMMUNICATE DESIGN AESTHETIC AND DESIRED MATERIALS. CONTRACTOR TO SUBMIT ENGINEERED SHOP DRAWINGS SHOWING STRUCTURAL DESIGN THAT CONFORMS TO LOCAL CODES FOR SHADE STRUCTURE AND CONCRETE DECK.

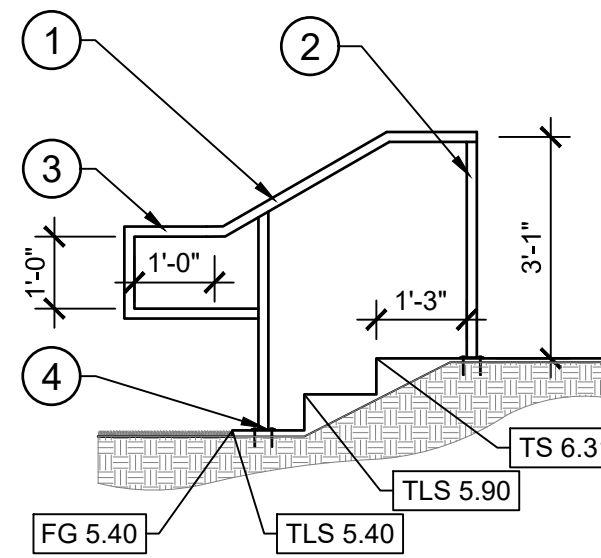


3 BAND SHELL - PLAN
1/8" = 1'-0"



4 BACKDROP DETAIL
1" = 1'-0"

NOTE:
DETAIL SHOWN TO COMMUNICATE DESIGN AESTHETIC AND DESIRED MATERIALS. CONTRACTOR TO SUBMIT ENGINEERED SHOP DRAWINGS SHOWING STRUCTURAL DESIGN THAT CONFORMS TO LOCAL CODES.



5 GALVANIZED STEEL HANDRAIL - ELEVATION
3/8" = 1'-0"

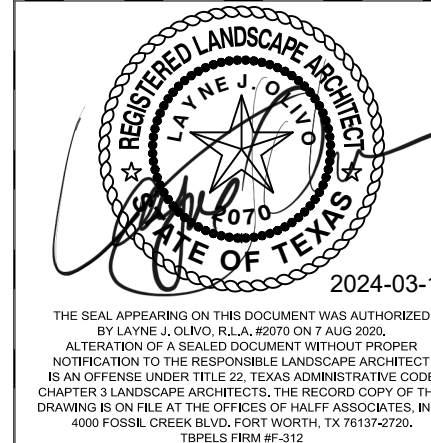
- KEY:
- 1 GALVANIZED STEEL TUBE 1-2/3" DIA. X 5/64". 15 LF TOTAL
 - 2 GALVANIZED STEEL HANDRAIL SUPPORT, SPACED EVENLY EVERY 5' MAX O.C. 2-3/4" DIA. X 1/2" DIA.
 - 3 GALVANIZED STEEL END CAP SEMISPHERICAL. QTY 2
 - 4 GALVANIZED STEEL ANCHORAGE DISC 3-15/16" DIA. X 15/64" 4 HOLES 7/16" DIA. QTY 2

- NOTES:
- 1) PAINTED BLACK
 - 2) CENTER OF POST TO BE 3-1/2" FROM CONCRETE EDGE.
 - 3) SHOP DRAWINGS TO BE PROVIDED

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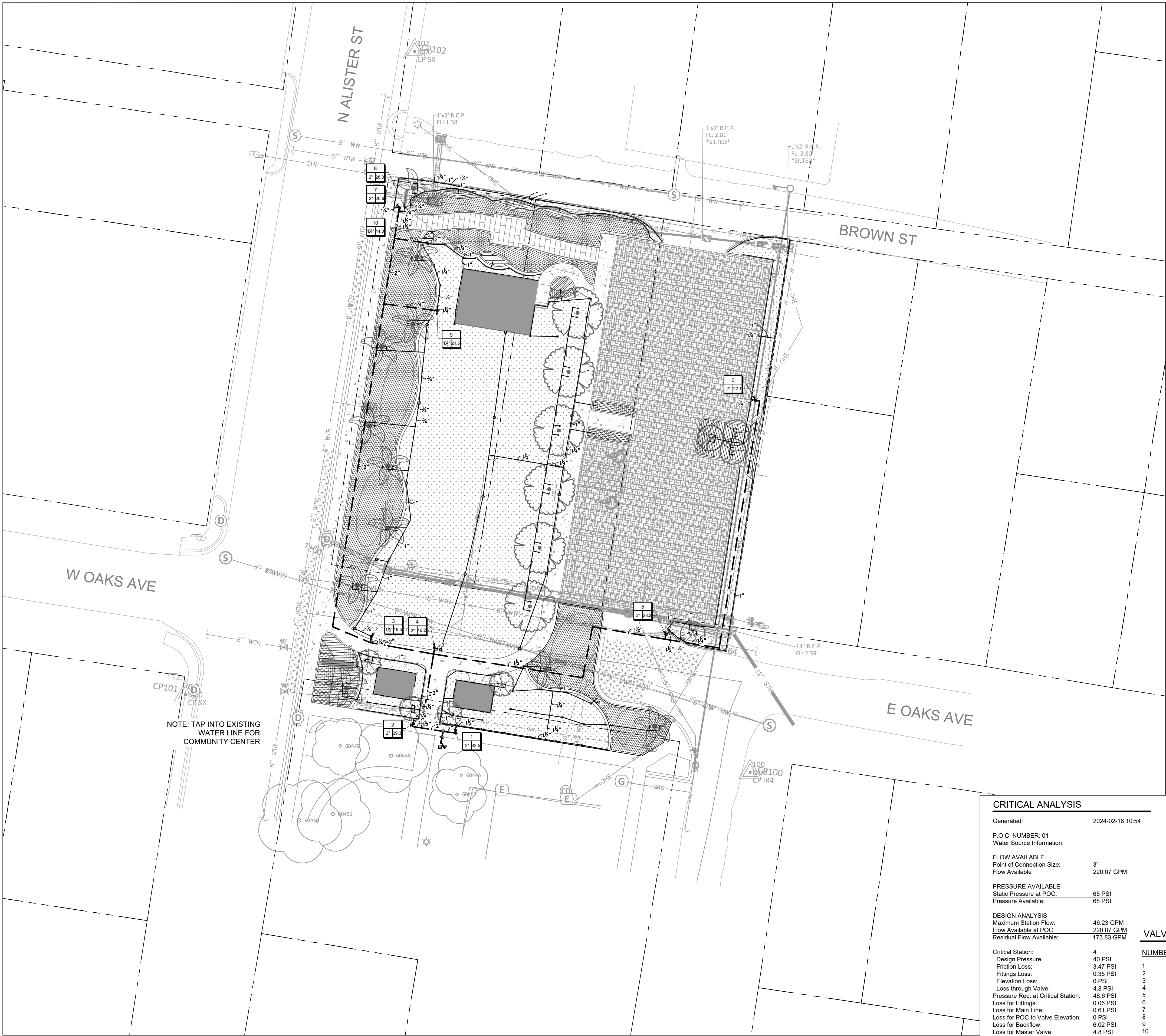
100%
BID SET

PROJECT NO.:
ISSUED: 2024-03-13 BID SET
DRAWN BY: CB
CHECKED BY: LO
SCALE: 1" = 20'
SHEET TITLE

BAND SHELL DETAILS

L3.00

$$1/4'' = 1'-0''$$
$$1/4'' = 1'-0''$$
$$1/4'' = 1'-0''$$

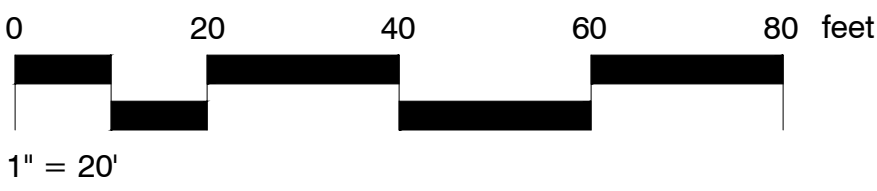


CRITICAL ANALYSIS















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P.O.C. NUMBER: 01	
Water Source Information:	
FLOW AVAILABLE	
Point of Connection Size:	3"
Flow Available	220.07 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	65 PSI
Pressure Available:	65 PSI
DESIGN ANALYSIS	
Maximum Station Flow:	46.23 GPM
Flow Available at POC:	220.07 GPM
Residual Flow Available:	173.83 GPM
Critical Station:	4
Design Pressure:	40 PSI
Friction Loss:	3.47 PSI
Fittings Loss:	0.35 PSI
Elevation Loss:	0 PSI
Loss through Valve:	4.8 PSI
Pressure Req. at Critical Station:	48.6 PSI
Loss for Fittings:	0.06 PSI
Loss for Main Line:	0.61 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	6.02 PSI
Loss for Master Valve:	4.8 PSI

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	Rain Bird PEB-PRS-D	2"	Turf Spray	42.48		36.5	47.5	1.44 in/h
2	Rain Bird PEB-PRS-D	2"	Turf Spray	29.28		36.5	47.4	1.44 in/h
3	Rain Bird PEB-PRS-D	1-1/2"	Turf Rotor	19.5		47.2	57.5	0.96 in/h
4	Rain Bird PEB-PRS-D	2"	Turf Rotor	46.23		48.6	60.1	0.87 in/h
5	Rain Bird PEB-PRS-D	2"	Turf Spray	28.22		37.6	50.3	1.45 in/h
6	Rain Bird PEB-PRS-D	2"	Turf Spray	22.11		35.9	49.9	3.2 in/h
7	Rain Bird PEB-PRS-D	2"	Turf Spray	20.6		37.3	48.3	5.02 in/h
8	Rain Bird PEB-PRS-D	2"	Turf Spray	28.79		37.1	49.4	1.45 in/h
9	Rain Bird PEB-PRS-D	1-1/2"	Turf Spray	24.52		34.9	46.7	1.45 in/h
10	Rain Bird PEB-PRS-D	1-1/2"	Area for Dripline	44.03		33.7	47.8	1.44 in/h



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	
	Rain Bird 1806-SAM-PRS 5 Series MPR Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating.	37	30	
	Rain Bird 1806-SAM-PRS 8 Series MPR Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating.	1	30	
	Rain Bird 1806-SAM-PRS 10 Series MPR Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating.	20	30	
	Rain Bird 1806-SAM-PRS ADJ Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating.	199	30	
	Rain Bird 1804-SAM-PRS-1400 Flood Flood Bubble 4.0in. pop-up with check valve and pressure regulator	50	30	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM
	Rain Bird 6504-PC, FC 04 Turf Rotor, 4.0in. Pop-Up, Plastic Riser, Adjustable and Full Circle, With Removable Seal-A-Matic Check Valve, 1in. Female Threaded Inlet.	15	40	3.3
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY		
	Area to Receive Dripline Neutline TLOV-09-12 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.9 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mm	5,247 s.f.		
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY		
	Rain Bird PEB-PRS-D 1-1/2" 1in., 1-1/2in., 2in. Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration, With Pressure Regulator Module.	3		
	Rain Bird PEB-PRS-D 2" 1in., 1-1/2in., 2in. Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration, With Pressure Regulator Module.	7		
	Shut Off Valve	1		
	Rain Bird PEB 2" 1in., 1-1/2in., 2in. Plastic Industrial Master Valves. Low Flow Operating Capability, Globe Configuration.	1		
	Fetco 800 2" Double Check Backflow prevention, 1/2in. to 2in.	1		
	Water Meter 2" POC 01	1		
	Point of Connection 3"	1		
	Irrigation Lateral Line: PVC Class 200 SDR 21 3/4"	1,441 l.f.		
	Irrigation Lateral Line: PVC Class 200 SDR 21 1"	290.9 l.f.		
	Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/4"	182.4 l.f.		
	Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/2"	63.8 l.f.		
	Irrigation Lateral Line: PVC Class 200 SDR 21 2"	93.0 l.f.		
	Irrigation Mainline: PVC Class 200 SDR 21 1 1/4"	143.3 l.f.		
	Irrigation Mainline: PVC Class 200 SDR 21 1 1/2"	127.3 l.f.		
	Irrigation Mainline: PVC Class 200 SDR 21 2"	256.9 l.f.		

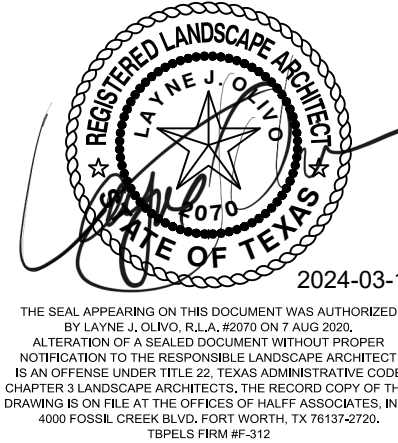
IRRIGATION NOTES:

- IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. PIPE, VALVE AND MAYBE BE SHOWN IN PAVED AREAS FOR DESIGN CLARIFICATION. ALL SYSTEM COMPONENTS WILL BE IN TURF OR LANDSCAPED AREAS WHERE POSSIBLE. ADJUST LOCATION OF ALL COMPONENTS TO COMPENSATE FOR FINAL SITE IMPROVEMENTS ON PROJECT SITE. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSTALLING A COMPLETE IRRIGATION SYSTEM.
- IRRIGATION CONTRACTOR TO COORDINATE PLACEMENT OF ALL REQUIRED SLEEVES UNDER PAVING.
- ALL CONTROL WIRING TO BE BURIED UNDER OR ALONG SIDE OF MAIN LINE. LINE TO BE A MINIMUM DEPTH OF 12" BELOW GRADE.
- SYSTEM PRESSURE IS BASED ON A STATIC PRESSURE OF 65.00 PSI WITH A DESIGN PRESSURE OF 58.50 AT THE POINT OF CONNECTION TO THE WATER LINE. IN NO CASE SHALL CONTRACTOR COMMENCE WITH CONSTRUCTION IF MEASURED PRESSURE AT POINT OF CONNECTION IS LESS THAN REQUIRED SYSTEM PRESSURE. FAILURE TO CONTACT THE OWNER'S REPRESENTATIVE SHOULD A DISCREPANCY OCCUR WILL RESULT IN THE CONTRACTOR MAKING NECESSARY CHANGES TO THE IRRIGATION SYSTEM TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL TEST AVAILABLE PRESSURE AND SUBMIT RESULTS TO OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO COMMENCING WORK.
- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE LOCAL CODES AND REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ANY EXISTING UNDERGROUND UTILITIES OR OBSTACLES. CONTRACTOR SHALL REPAIR ALL DAMAGE RESULTING FROM HIS OPERATIONS, AT NO COST TO THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO PLANT MATERIAL DUE TO SYSTEM FAILURE OR INFERIOR WORKMANSHIP DURING THE INSTALLING OF PLANTS AND MAINTENANCE PERIOD.
- THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL ELECTRICAL CONNECTION FOR CONTROLLERS. THIS SHALL INCLUDE ALL NECESSARY FUSE BOXES OR OTHER ELECTRICAL REQUIREMENTS.
- THE IRRIGATION CONTRACTOR SHALL COORDINATE OPERATIONS REQUIREMENTS OF THE IRRIGATION SYSTEM WITH THE OWNER.
- A LICENSED IRRIGATOR SHALL BE ON SITE DURING ALL IRRIGATION WORK.
- IRRIGATION DESIGN SHALL BE HEAD TO HEAD COVERAGE WITH THE GOAL OF MINIMIZING THE WATER WINDOW WITHOUT NEGATIVELY IMPACTING QUALITY OR PERFORMANCE.
- ONE PIPE PER TRENCH.

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SCALE: 1" = 20'
SHEET TITLE

IRRIGATION PLAN

L4.00



NTS



- TRENCHING DETAIL**

2 NTS



3 1" = 1'-0"



- ### 4 CONTROL VALVE DETAIL

4 $1'' = 1'-0''$



- MASTER VALVE AND FLOW METER DETAIL

5 NTS



6 NTS



7 NTS





9 NTS



10 NTS

[illegible]



UTILITY COMPANY CONTACT INFORMATION			
AEP	JUAN F ARREOLA	D: 361-758-6427 C: 361-230-1090	JARREOLA@AEP.COM

GENERAL NOTES

1. MINIMUM DEPTH FOR ELECTRICAL SERVICE CONDUITS IS 36". PROVIDE ADDITIONAL DEPTH AS REQUIRED TO MAINTAIN REQUIRED CLEARANCES FROM OTHER UTILITIES AND OBSTRUCTIONS.
2. EXISTING UTILITY DATA IS PROVIDED FOR INFORMATION ONLY. ALL UTILITIES ARE NOT SHOWN. THE ENGINEER NEITHER ASSUMES NOR IMPLIES ANY RESPONSIBILITY FOR THE ACCURACY OF OR LACK OF THIS DATA. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE AND VERIFY THE EXACT LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO PROCEEDING WITH CONSTRUCTION. VERIFY EXISTING UTILITIES, UNDERGROUND PIPING, TELEPHONE, GAS, NETWORK, FIBER OPTIC, ETC. PRIOR TO BID. CALL 811 PRIOR TO EXCAVATION.
3. CONDUIT FOR POWER SYSTEMS SHALL NOT EXCEED A TOTAL OF 270° BENDS BETWEEN BOXES.
4. PROVIDE LONG SWEEP RADIUS 90'S FOR ELECTRIC SERVICE CONDUITS.
5. COORDINATE ELECTRICAL SERVICE WORK WITH AEP.
6. COORDINATE AND SCHEDULE ANY ELECTRICAL SERVICE INTERRUPTIONS WITH OWNER.
7. CONDUIT ROUTING SHOWN IS DIAGRAMMATIC. CONTRACTOR SHALL ADJUST ROUTING AS NECESSARY TO FACILITATE INSTALLATION, MAINTAIN REQUIRED COVER, AND MAINTAIN REQUIRED SEPARATION BETWEEN OBSTRUCTIONS AND OTHER UTILITIES.
8. STAKE LOCATIONS OF POLES, EQUIPMENT AND CONDUITS FOR OWNER/ENGINEER AND AEP APPROVAL BEFORE EXCAVATION OR INSTALLATION.
9. SEAL ALL SITE CONDUIT JOINTS WATERTIGHT.
10. CIRCUIT FOR SITE LIGHTING SHALL BE 2#8, #8G, IN 1-1/4"C. 0-10V DIMMING WIRING IN SEPARATE 1-1/4" CONDUIT.
11. CONDUIT TO TYPE "PV" LIGHT FIXTURES SHALL BE SECURELY ANCHORED TO STRUCTURE. ALL EXPOSED CONDUIT SHALL BE GALVANIZED. REFER TO E2 FOR DETAIL.
12. LIGHTING LEVELS SHALL MEET OR EXCEED HORIZONTAL FOOTCANDLE VALUES SHOWN. PROVIDE POINT-BY-POINT CALCULATIONS BY FIXTURE MANUFACTURER.

NOTES BY SYMBOL

- 1 UNDERGROUND 1-PHASE SECONDARY CONDUCTORS BY AEP. TRENCHING, BACKFILL, AND (2) 2" CONDUITS BY CONTRACTOR.
- 2 PAD MOUNTED ENCLOSURE NO. PL1. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
- 3 EXISTING AEP 120/240V, 1 PHASE POLE MOUNTED TRANSFORMER. AEP SHALL UPGRADE TRANSFORMER AS NECESSARY..

POLE SCHEDULE					
POLE NUMBER	SHAFT LENGTH	FIXTURE TYPE	DISTRIBUTION NEMA TYPE	FIXTURE QUANTITY	VOLTAGE
P1	25'-0"	P62	5	1	120
P2	25'-0"	P62	3	1	120
P3	25'-0"	P62	3	1	120
P4	25'-0"	P62	3	1	120
NOTE: PROVIDE POINT-BY-POINT LIGHTING CALCULATION TO DETERMINE OPTIMUM DISTRIBUTION TYPE.					

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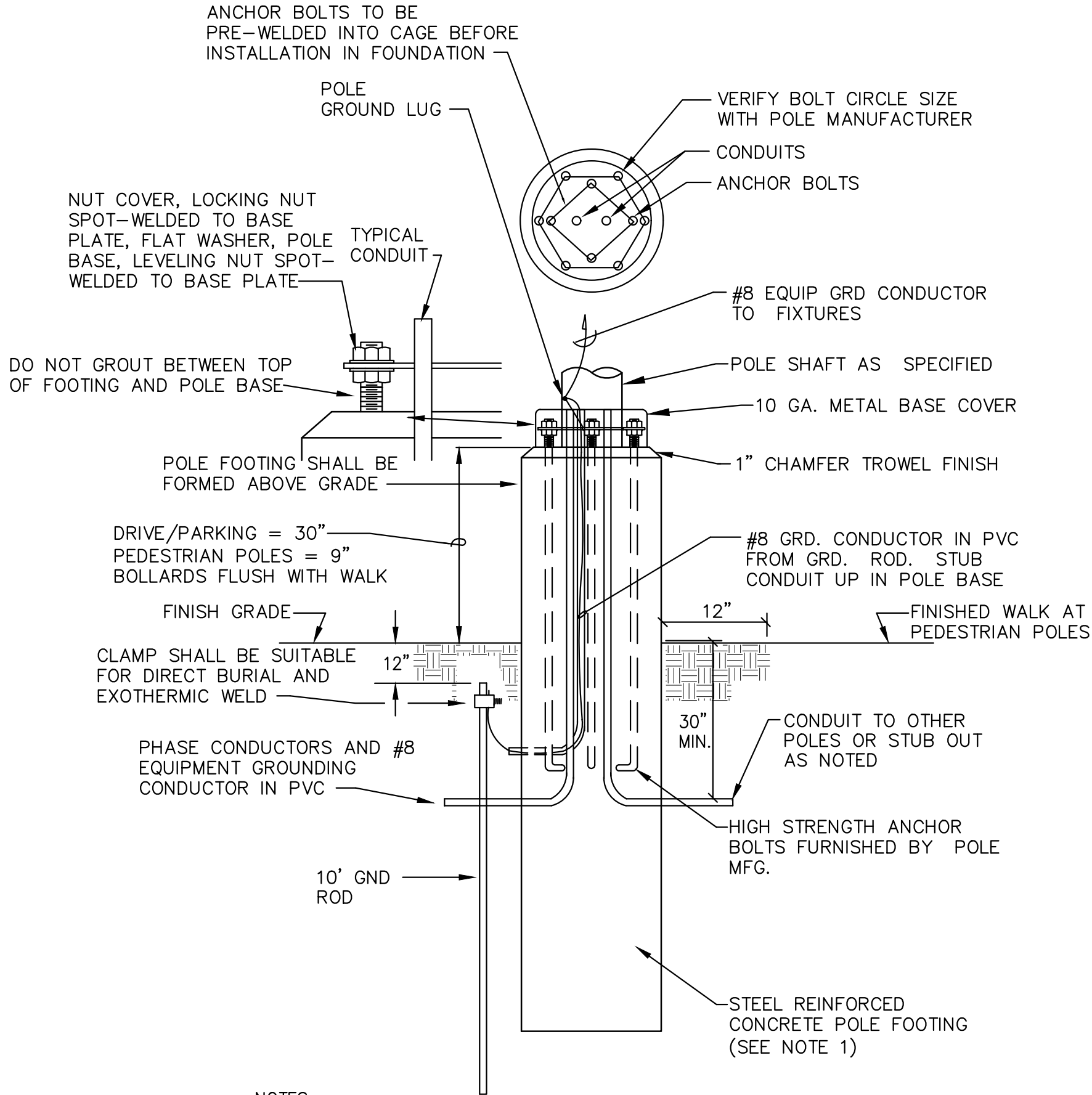
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CONTRACT DOCUMENTS

PROJECT NO.:
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ELECTRICAL SITE PLAN

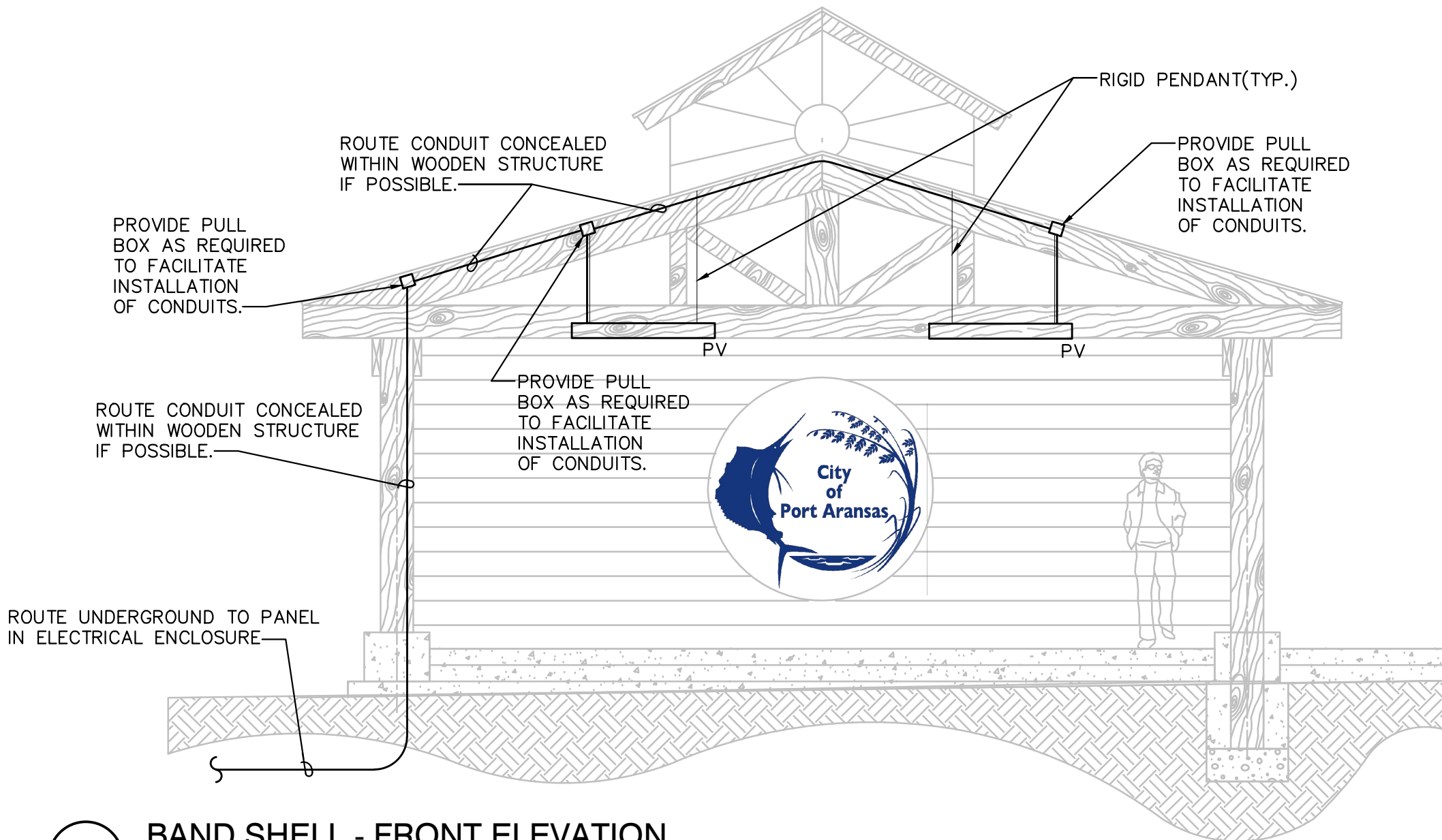


NOTES:

1. REFER TO STRUCTURAL FOR POLE FOOTING DIAMETER, DEPTH, REINFORCING, AND CONCRETE REQUIREMENTS.

02 LIGHTING POLE FOOTING - ELECTRICAL

NO SCALE



01 BAND SHELL - FRONT ELEVATION

1/4" = 1'-0"

GENERAL NOTES

1. ELECTRICAL CONTRACTOR SHALL COORDINATE PULL BOX, CONDUIT, AND LIGHTING INSTALLATION WITH STRUCTURE, CONCRETE, AND PAVILION CONTRACTORS.
2. BOXES SHALL BE NEMA 3R.

EXTERIOR SITE LIGHTING CONTROL SCHEDULE								
ZONE	LIGHTING CONTROLS LOCATION	PHOTOCELL	TIMECLOCK NUMBER	HOA SWITCH	CONTACTOR			NOTES
					CONTACTOR NO.	RATING	CIRCUITS	
BAND SHELL LIGHTING (FIXTURE TYPE "PV")	ENCLOSURE NO. PL1	1	TC-1	1	C-1	2P-30A	PL1-1	0-10V DIMMING
PARKING LOT LIGHTING (FIXTURE TYPE "P62")	ENCLOSURE NO. PL1	1	TC-2	2	C-2	2P-30A	PL1-4	0-10V DIMMING
SHADE STRUCTURE LIGHTING (FIXTURE TYPE "P62")	ENCLOSURE NO. PL1	1	TC-3	3	C-3	2P-30A	PL1-2	0-10V DIMMING
GENERAL NOTES:								
1. PROVIDE AUXILIARY RELAYS AS REQUIRED FOR 2-WIRE CONTROL.								
2. CONTACTORS, HOA SWITCHES, AND TIMECLOCKS SHALL BE LOCATED IN ELECTRIC ROOM INDICATED.								
3. PHOTOCELL SHALL BE INSTALLED ON BUILDING ROOF FACING NORTH.								
4. PROVIDE PHOTOCELL-ON, TIMECLOCK-OFF CONTROL AND HOA SWITCH FOR HAND (BY-PASS ON)/OFF/AUTO OPERATION.								
5. ALL TIMECLOCKS, RELAYS, CONTACTORS, AND HOA SWITCHES SHALL BE INSTALLED IN SEPARATE NEMA 1 ENCLOSURES.								
6. PROVIDE 0-10V DIMMING WIRING IN CONDUIT FOR ALL ZONES NOTED. 0-10V DIMMING WIRING SHALL BE SIZED PER MANUFACTURERS RECOMMENDATIONS.								
7. PROVIDE 0-10V DIMMING CONTROL STATION ADJACENT TO EXTERIOR LIGHTING CONTROLS.								

LIGHT FIXTURE SCHEDULE				
TYPE	DESCRIPTION	MOUNTING	LAMPS	VOLTAGE
PV	BAND SHELL FIXTURE, 5" TALL x 3" WIDE x 4'-0" LONG, INDIRECT LIGHTING AND DIRECT LIGHTING, RIGID STEM MOUNTING, FINISH AS SELECTED BY ARCHITECT, ONE CIRCUIT, 0-10V DIMMING, WET LOCATION LISTED, EQUAL TO A-LIGHT ACL2ST SERIES	RIGID PENDANT MOUNTED FROM STRUCTURE. BOTTOM OF FIXTURE SHOULD BE EQUAL TO BOTTOM OF TRUSS	LED 3500K, 90 CRI 9.7W/FT DIRECT LIGHTING 9.7W/FT IN-DIRECT LIGHTING 1075 LUMENS/FT DIRECT LIGHTING	120
P62	LIGHTING POLE AND FIXTURE, LED, DARK SKIES COMPLIANT, OPTICS AS NOTED IN POLE SCHEDULE, 0-10V DIMMING, EQUAL TO SCHREDER ALBANY GEN2 FIXTURE, 500ma DRIVER, ALUMINUM HOUSING, TEMPERED FLAT GLASS POLYCARBONATE PROTECTOR, IP66 RATED, WET LOCATION LISTED	POLE MOUNTED 25'-0" HEIGHT 6" TAPERED ROUND GALVANIZED STEEL POLE (RATED FOR 120MPH) WITH VIBRATION DAMPENER	62 WATTS 9592 LUMENS 3500K	120
NOTES:				
1. VERIFY EXACT LOCATION, MOUNTING, AND METHOD OF INSTALLATION FOR ALL LIGHTING FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.				
2. FIXTURE COLORS AND FINISHES SHALL BE CLEARLY MARKED IN SUBMITTALS.				

PANEL PL1											
V (L-L) 240			PHASE 1			BUS 100 A			SECTION 1 OF 1		
V (L-N) 120			WIRE 3			MCB 100 A			SURFACE MOUNTED		
DESCRIPTION		LOAD (KVA)	BKR POLES	BKR AMPS	CKT #	CKT #	BKR POLES	BKR AMPS	LOAD (KVA)	DESCRIPTION	
BAND SHELL LIGHTS		0.2	1	20	1	2	1	20	0.1	POLE LIGHTING	
ENCLOS. EXH. FAN		0.5	1	20	3	4	1	20	0.3	POLE LIGHTING	
SPARE		0.5	1	20	5	6	1	20	0.4	ENCLOSURE RECEPT.	
SPARE		0.5	1	20	7	8	1	20	0.5	SPARE	
SPARE		0.5	1	20	9	10	1	20	0.5	SPARE	
SPARE		0.5	1	20	11	12	1	20	0.5	SPARE	
SPARE		0.5	1	20	13	14	1	20	0.5	SPARE	
SPARE		0.5	1	20	15	16	1	20	0.5	SPARE	
SPACE		-	-	-	17	18	-	-	-	SPACE	
SPACE		-	-	-	19	20	-	-	-	SPACE	
SPACE		-	-	-	21	22	-	-	-	SPACE	
SPACE		-	-	-	23	24	-	-	-	SPACE	
LIGHTING		1	1							28 CONN. LOAD (AMPS)	
MOTOR		0	1							30 N.E.C. MULT. (AMPS)	
HEATING										76 PERCENT SPARE	
KITCHEN										1.00 KITCHEN MULTIPLIER	
RECEPTACLE		0	0							1.00 MISC. MULTIPLIER	
MISCELLANEOUS											
SPARE		6	6								
TOTAL		7	7								

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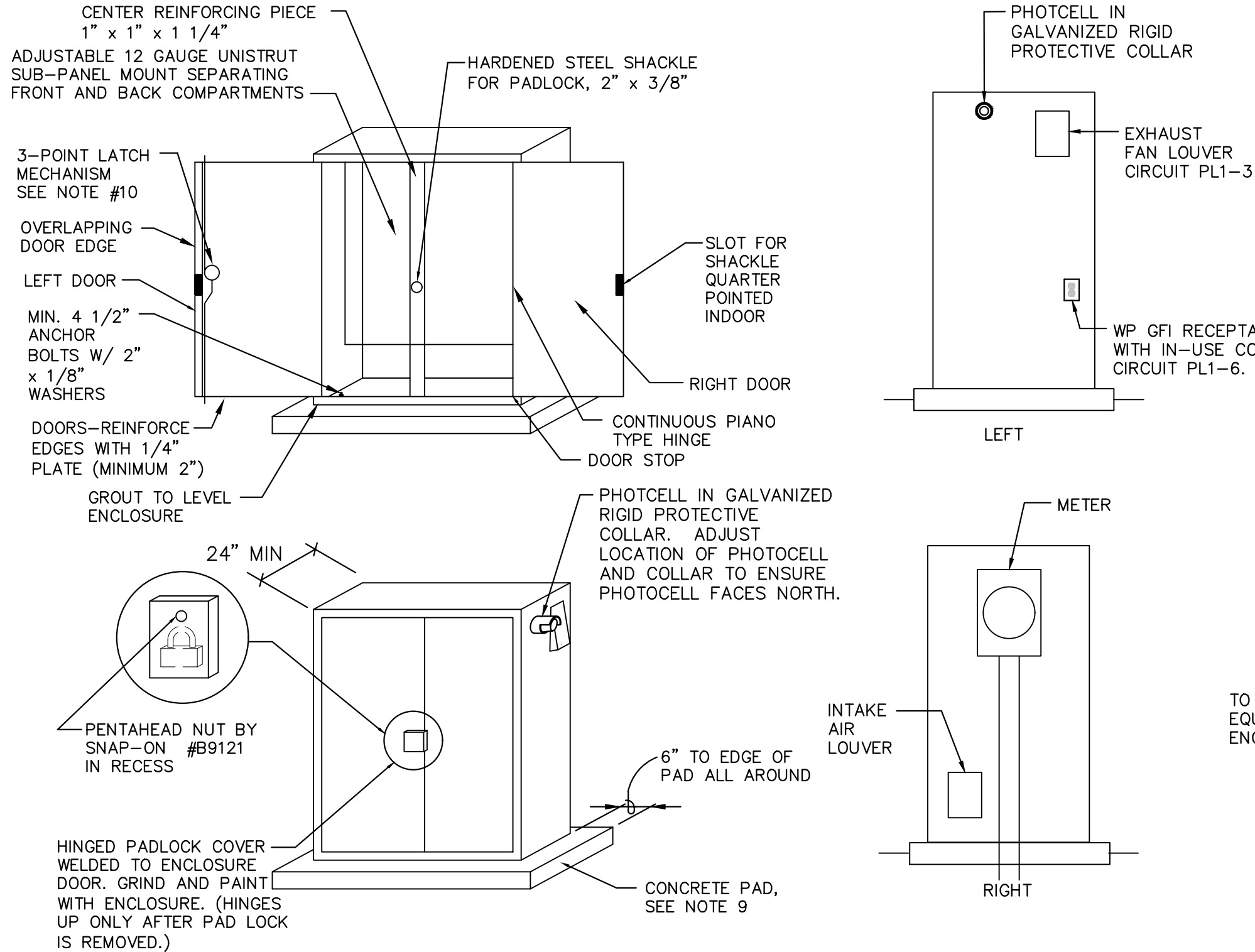
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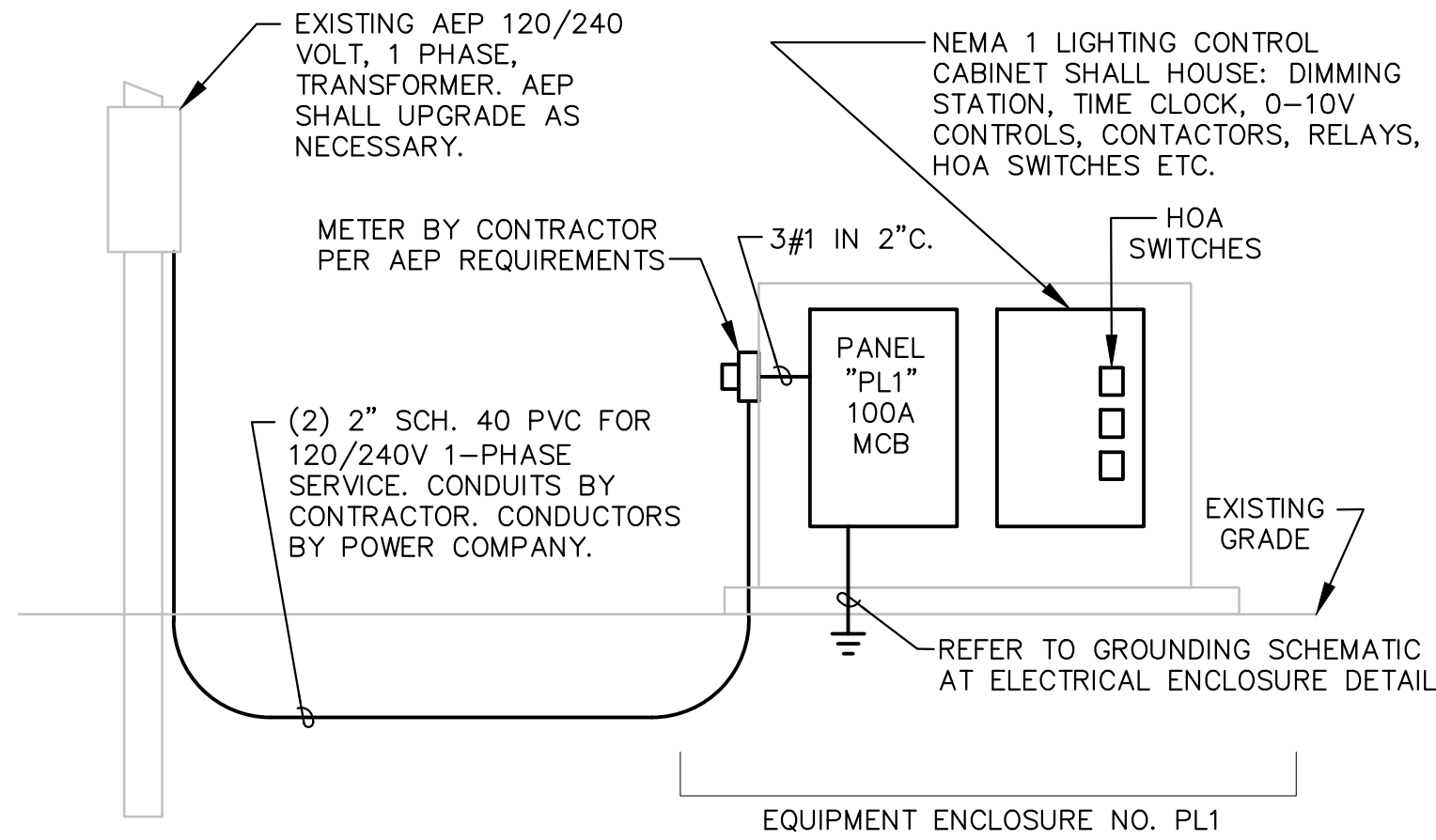
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ELECTRICAL SCHEDULES

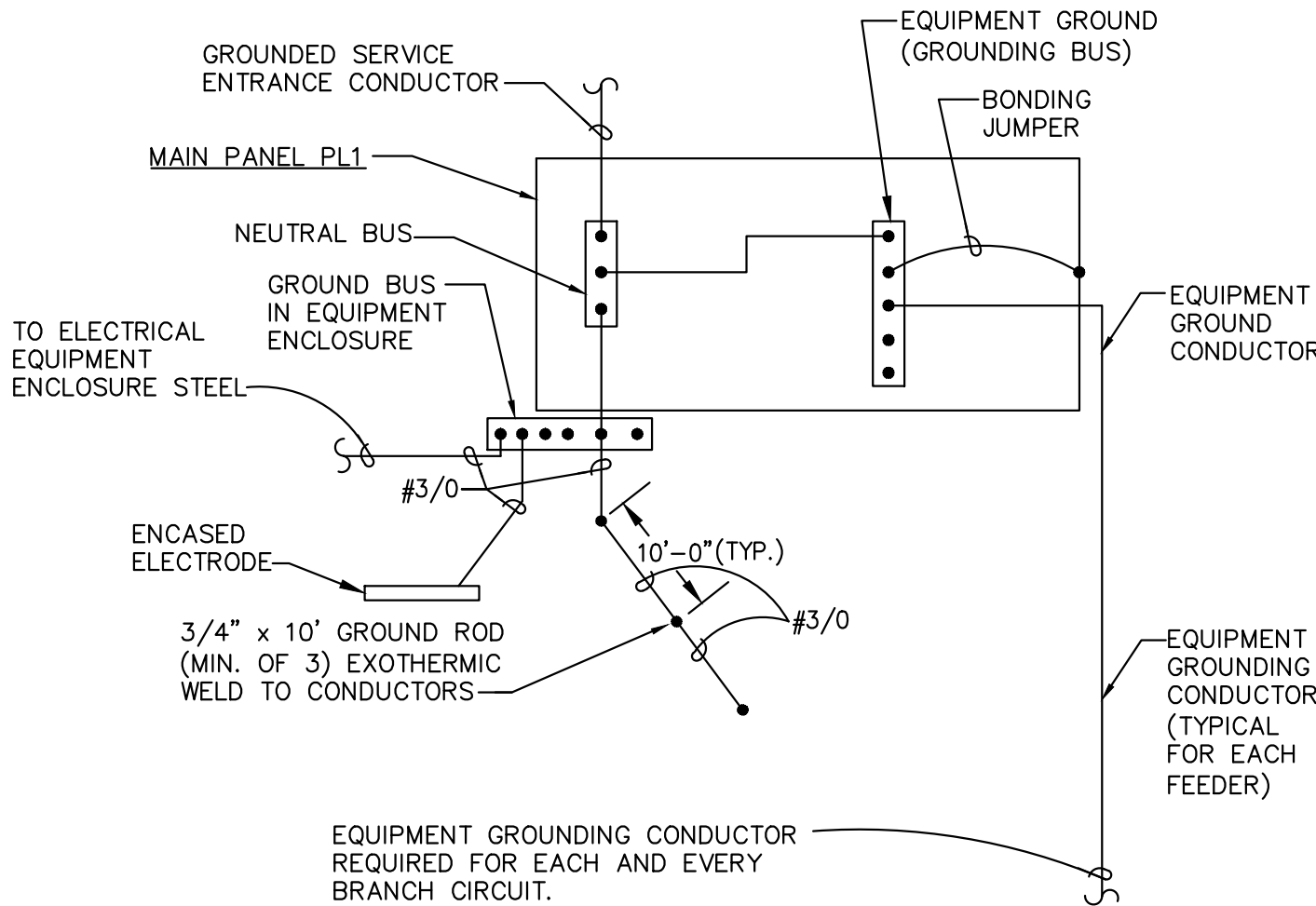


NOTES:

- SEE ENCLOSURE EQUIPMENT LAYOUT, SCHEDULES & DETAILS FOR EQUIPMENT INSTALLED HEREIN.
- CONTINUOUS FOAM GASKETING AROUND DOOR.
- ENCLOSURE SHALL BE NEMA 3R (10 GAUGE STEEL MINIMUM) WITH RAIN SHIELD OVER DOORS.
- ALL INTERIOR COMPONENTS SHALL BE DEAD FRONT. NO EXPOSED ELECTRICAL TERMINALS SHALL BE VISIBLE.
- INTERIOR GALVANIZED UNISTRUT FRAME SHALL BE INSTALLED FOR MOUNTING OF ALL COMPONENTS.
- ALL ELECTRICAL EQUIPMENT SHALL BE MOUNTED SO THAT THE FACE OF THE ELECTRICAL EQUIPMENT IS NO MORE THAN 6 INCHES FROM THE FACE OF THE CABINET TO COMPLY WITH NEC 110.26 (A) (3).
- WELDED AND CUT JOINTS SHALL BE GROUND SMOOTH.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL COMPONENTS FIT INSIDE ENCLOSURE.
- SUBMIT DIMENSIONED FABRICATION DRAWINGS WITH INTERIOR COMPONENT LAYOUT FOR ENGINEER APPROVAL. DIMENSIONS SHOWN ARE MINIMUM, HOWEVER THE INTENT IS TO MINIMIZE ENCLOSURE HEIGHT TO 60".
- CONCRETE PAD SHALL BE MINIMUM 4" ABOVE GRADE AND MINIMUM 4" BELOW GRADE. ALL TOP EDGES TO BE TOOLED WITH 3/4" CHAMFER. PAD TO BE 6" LARGER THAN ENCLOSURE ON ALL SIDES. PLACE #3 REBAR 6" O.C. BOTH WAYS. MEDIUM BROOM FINISH.
- 3-POINT LATCHING MECHANISM SHALL BE OPENED AND CLOSED WITH PENTAHEAD NUT WELDED TO LATCHING MECHANISM. RIGHT DOOR IS TO CLOSE FIRST, AND LEFT DOOR WITH LATCHING MECHANISM CLOSSES LAST WITH A 4" OVERLAP. PENTAHEAD NUT BY SNAP-ON #B9121 SHALL BE IN RECESS TO PROHIBIT USE OF ANY SOCKET EXCEPT PENTAHEAD SOCKET.
- ENCLOSURE FINISH SHALL HAVE RUST INHIBITIVE PRIMER AND TWO COATS OF HIGH GRADE POWDER-COAT FINISH, LIGHT GRAY. VERIFY COLOR.
- FURNISH TWO (2) PENTAHEAD SOCKETS TO OWNER WITH ENCLOSURE.
- INSTALL GROUNDING BUSHING ON ALL CONDUIT ENTRIES.
- CABINET DIMENSIONS SHALL BE DETERMINED BY THE ENCLOSED COMPONENTS. CABINET WIDTH SHALL NOT BE LESS THAN 24".
- ACCEPTABLE MANUFACTURERS INCLUDE: UNIVERSAL ENCLOSURES, BISON PREFAB, AND MYERS.



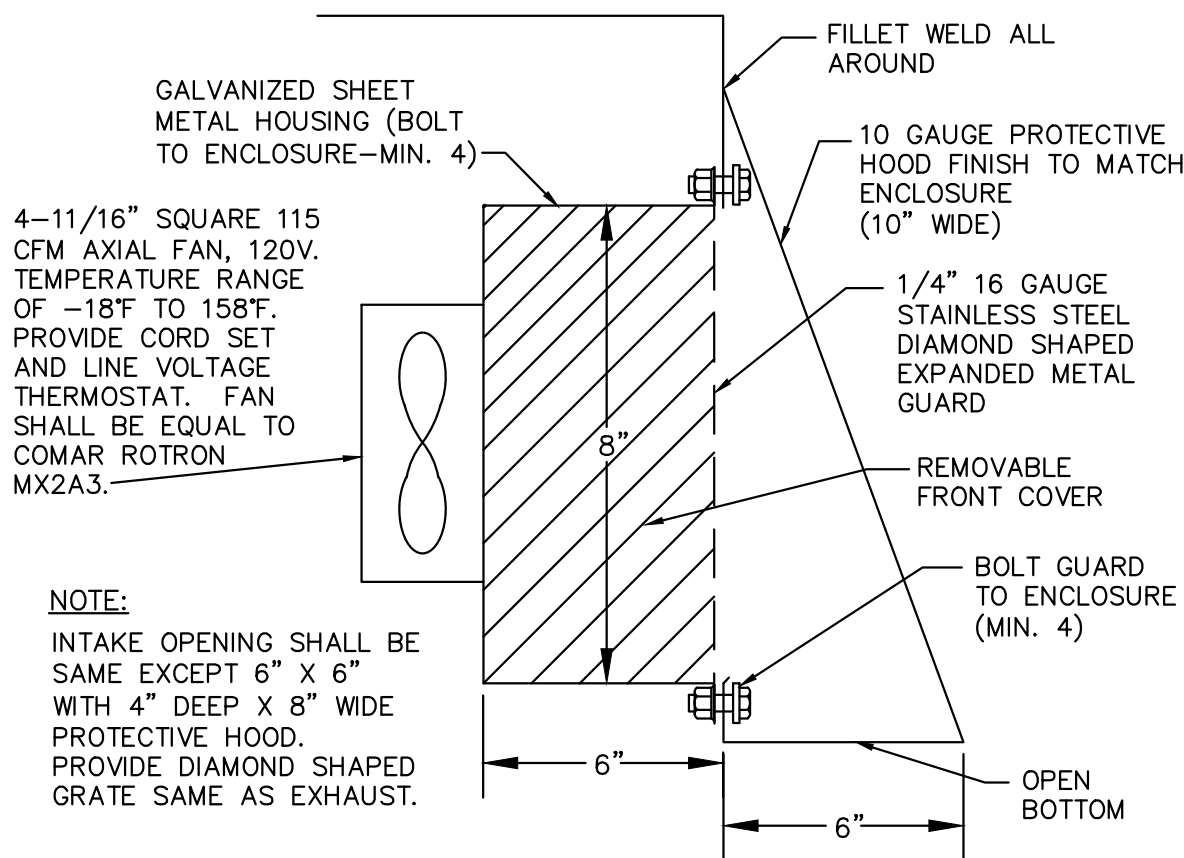
2 EQUIPMENT ENCLOSURE NO. "PL1" - ONE-LINE DIAGRAM
NO SCALE



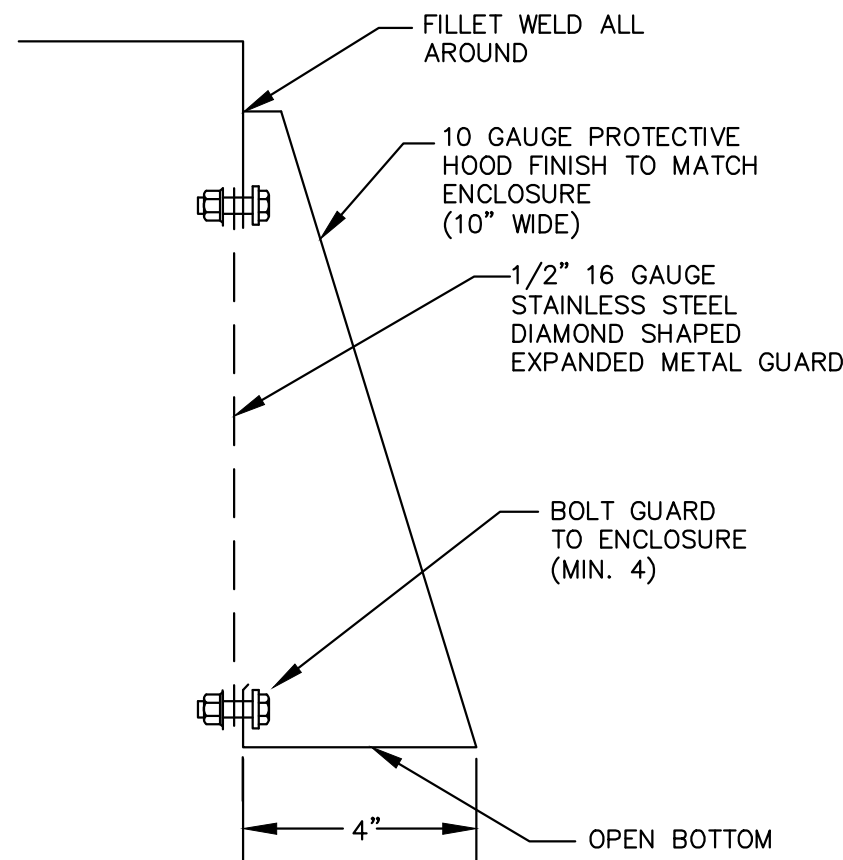
4 GROUNDING SCHEMATIC AT ELECTRICAL ENCLOSURE
NO SCALE

NOTES:

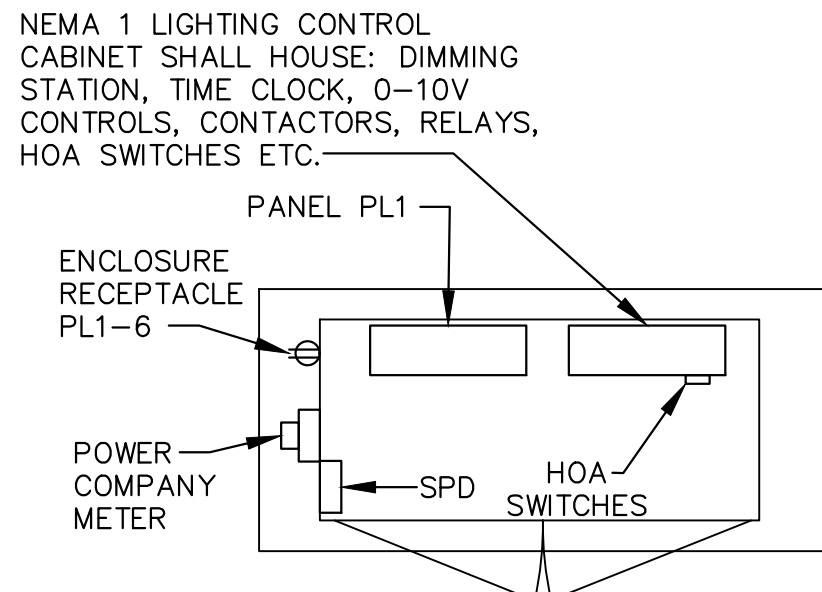
- MEASURED RESISTANCE TO GROUND SHALL NOT EXCEED 2 OHMS.



6 EXHAUST FAN DETAIL
NO SCALE



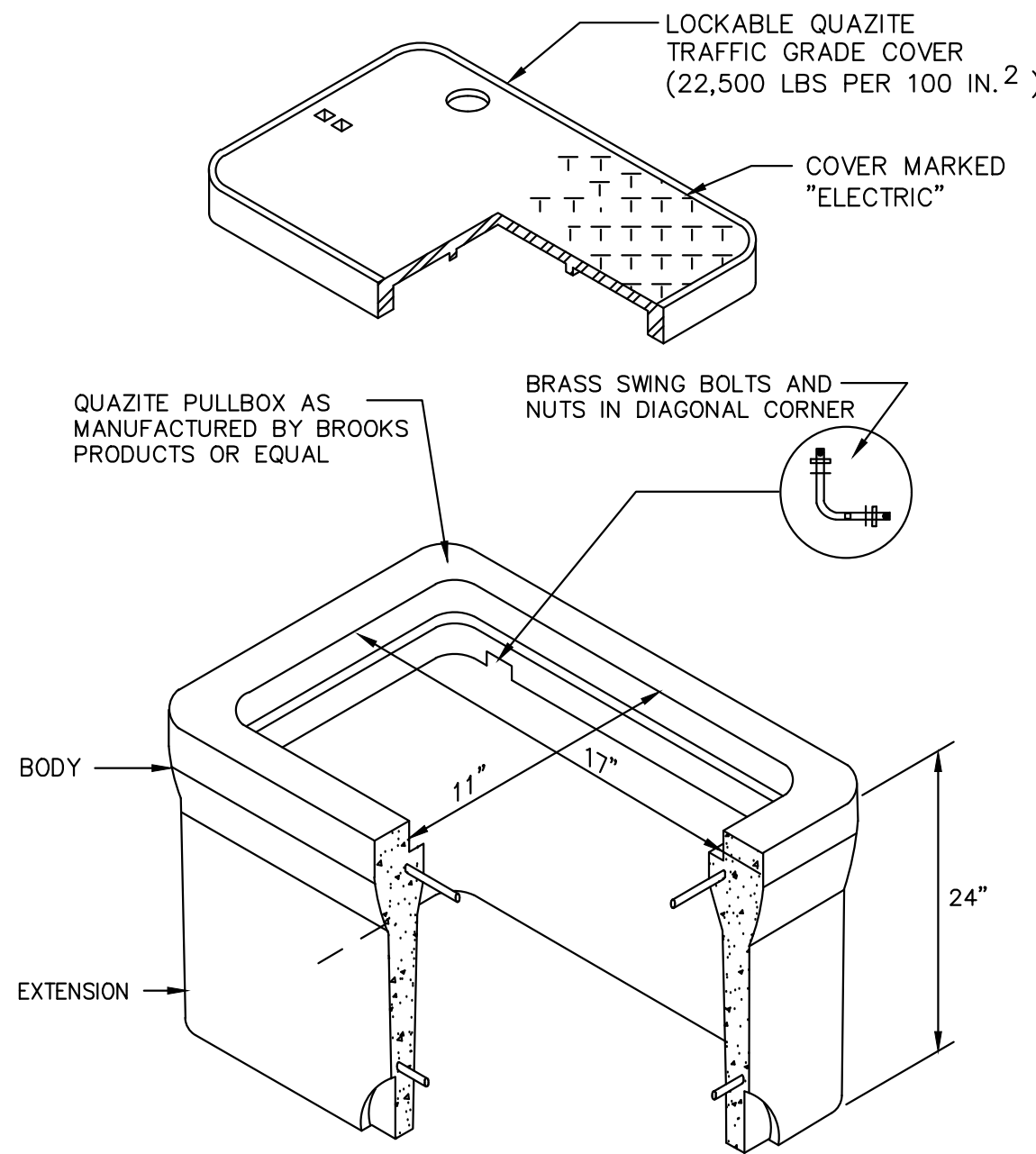
7 INTAKE DETAIL
NO SCALE



3 ELECTRICAL EQUIPMENT ENCLOSURE NO. "PL1" DETAIL
NO SCALE

NOTES:

- INSTALL CONTACTORS INSIDE SEPARATE LIGHTING CONTROL CABINET. CABINET SHALL BE LOCKABLE WITH HINGED COVER.
- LOCATE HOA SWITCH IN FRONT DOOR OF LIGHTING CONTROL CABINET.



5 PULL BOX - 11" X 17"
NO SCALE

NOTES:

- PULL BOX SHALL BE TRAFFIC GRADE.
- EXACT LOCATION SHALL BE SUBMITTED FOR OWNER AND ENGINEER APPROVAL PRIOR TO TRENCHING.
- ALL PULL BOXES SHALL BE 11" X 17".

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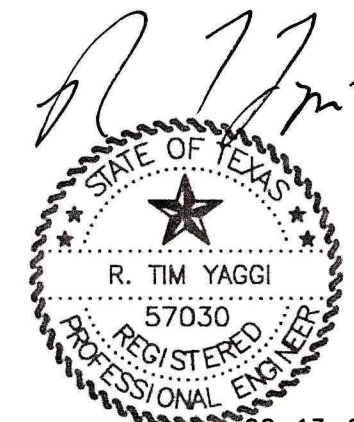
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