

NOTES:

- BRAZORIA DRAINAGE DISTRICT NO. 4 SPECIAL NOTES

1. ANY GOVERNMENTAL BODY FOR PURPOSES OF DRAINAGE WORK MAY USE DRAINAGE EASEMENTS AND FEE STRIPS PROVIDED THE DISTRICT IS PROPERLY NOTIFIED.
2. PERMANENT STRUCTURES INCLUDING FENCES AND PERMANENT LANDSCAPING, SHALL NOT BE ERECTED IN A DRAINAGE EASEMENTS OR FEE STRIPS.
3. MAINTENANCE OF DETENTION FACILITIES IS THE SOLE RESPONSIBILITY OF THE OWNER OF THE PROPERTY. THE DISTRICT WILL PROVIDE MAINTENANCE OF REGIONAL FACILITIES OWNED AND CONSTRUCTED BY THE DISTRICT, OR SUB REGIONAL FACILITIES CONSTRUCTED BY DEVELOPER(S) FOR WHICH OWNERSHIP HAS BEEN TRANSFERRED TO THE DISTRICT WITH THE DISTRICT'S APPROVAL. THE DISTRICT IS RESPONSIBLE ONLY FOR THE MAINTENANCE OF FACILITIES OWNED BY THE DISTRICT UNLESS THE DISTRICT SPECIFICALLY CONTRACTS OR AGREES TO MAINTAIN OTHER FACILITIES.
4. CONTRACTOR SHALL NOTIFY THE DISTRICT IN WRITING AT LEAST FORTY-EIGHT (48) HOURS BEFORE PLACING ANY CONCRETE FOR DRAINAGE STRUCTURES
5. THE DISTRICT'S PERSONNEL SHALL HAVE THE RIGHT TO ENTER UPON THE PROPERTY FOR INSPECTION AT ANY TIME DURING CONSTRUCTION OR AS MAY BE WARRANTED TO ENSURE THE DETENTION FACILITY AND DRAINAGE SYSTEM ARE OPERATING PROPERLY
6. APPROPRIATE COVER FOR THE SIDE SLOPES, BOTTOM AND MAINTENANCE BERM SHALL BEE ESTABLISHED PRIOR TO ACCEPTANCE OF THE CONSTRUCTION BY THE DISTRICT. AT LEAST 95% GERMINATION OF THE GRASS MUST BE ESTABLISHED PRIOR TO ACCEPTANCE OF CONSTRUCTION BY THE DISTRICT.
7. NO BUILDING PERMIT SHALL BE ISSUED FOR ANY LOT WITHIN THIS DEVELOPMENT UNTIL THE DETENTION FACILITY HAS BEEN CONSTRUCTED AND APPROVED BY THE DISTRICT.
8. THE DISTRICT'S APPROVAL OF THE FINAL DRAINAGE PLAN (AND FINAL PLAN IF REQUIRED) DOES NOT AFFECT THE PROPERTY RIGHTS OF THIRD PARTIES. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING AND MAINTAINING ANY AND ALL EASEMENTS, FEE STRIPS AND/OR ANY OTHER RIGHTS-OF-WAY ACROSS 'THIRD PARTIES' PROPERTIES FOR PURPOSES OF MOVING EXCESS RUNOFF TO THE DISTRICT'S DRAINAGE FACILITIES AS CONTEMPLATED BY THE FINAL DRAINAGE PLAN AND FINAL PLAN.

## BRAZORIA DRAINAGE DISTRICT NO. 4 SPECIAL NOTES

1. THE CONTRACTOR SHALL NOT DUMP ANY DIRT OR OTHER MATERIALS ONTO A PROPERTY BEING OUTSIDE OF THE BOUNDARY OF THIS PERMITTED PROJECT AND WITHIN THE CITY OF PEARLAND CITY LIMIT WITHOUT A VALID DEVELOPMENT/GRADING PERMIT ISSUED TO THE OFFSITE PROPERTY OWNER BY THE CITY OF PEARLAND ENGINEERING DEPARTMENT. IF SUCH DUMPING IS TO OCCUR WITHOUT A VALID PERMIT, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE REMOVAL OF ANY DISCARDED DIRT OR OTHER MATERIALS TO AN APPROVED LOCATION AT THE CONTRACTOR'S EXPENSE.
2. THE CONTRACTOR SHALL ADEQUATELY PROTECT EXISTING STRUCTURES, UTILITIES, TREES, SHRUBS AND PERMANENT OBJECTS WHICH ARE NOT SCHEDULED TO BE REMOVED AS PART OF THIS PROJECT. PRIOR TO THE REMOVAL OF ANY TREES A CLEARING AND GRUBBING PERMIT MUST BE OBTAINED FROM THE URBAN FORSTER (281) 652-1983.
3. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL RESIDENTIAL AND COMMERCIAL PROPERTIES ADJACENT TO THE WORK AREA AT ALL TIMES.
4. ON ALL PAVEMENT TO BE REMOVED, INCLUDING CONCRETE DRIVEWAYS AND SIDEWALKS, THE PAVEMENT SHALL BE SAWCUT TO FULL DEPTH PRIOR TO REMOVAL.
5. ALL WORK WITHIN CITY OF PEARLAND RIGHTS-OF-WAY OR PUBLIC EASEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF PEARLAND SPECIFICATIONS, ACCEPTED STANDARDS AND APPROVED DETAILS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND UNDERSTANDING ALL RELEVANT INFORMATION PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR SHALL CONTACT THE CITY OF PEARLAND CHIEF ENGINEERING INSPECTOR, DOUG TALBOTT AT (281) 652-1646 OR (713) 775-4056 TO EITHER SCHEDULE OR NOTIFY HIM OF A PREVIOUSLY SCHEDULED PRE-CONSTRUCTION MEETING. THE PRE-CONSTRUCTION MEETING SHALL BE HELD A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
7. THE CONTRACTOR IS NOT AUTHORIZED TO OPERATE WATER/SANITARY INFRASTRUCTURE UTILITIES, OWNED OR OPERATED BY THE CITY OF PEARLAND. CONTRACTOR SHALL CONTACT THE CITY OF PEARLAND PUBLIC WORKS DEPARTMENT TO REQUEST CITY OF PEARLAND PUBLIC WORKS PERSONNEL TO PERFORM ALL UTILITY OPERATIONS.

UNDERGROUND GAS FACILITIES  
LOCATION OF CENTER POINT MAIN LINES (TO INCLUDE UNITED GAS TRANSMISSION AND/ OR INDUSTRIAL GAS SUPPLY CORPORATION WHERE APPLICABLE) ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT (713) 223-4567 OR 1-800-669-8344 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE NOT ATTEMPTED TO MARK THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS WHICH MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL CENTER POINT AT 713-207-7777.

UNDERGROUND ELECTRICAL FACILITIES EXIST IN THE AREA OF THIS PROJECT. DO NOT BEGIN CONSTRUCTION UNTIL THESE FACILITIES HAVE BEEN LOCATED AND STAKED. TO HAVE THESE UNDERGROUND FACILITIES STAKED CALL THE UTILITY COORDINATING COMMITTEE AT (713) 223-4567, OR TOLL FREE AT 1-(800) 669-8344, AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION.

THE LOCATIONS OF AT&T TEXAS/SWBT FACILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.

THE CONTRACTOR SHALL CALL 1-800-344-8377 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.

WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18 ") OF THE INDICATED LOCATION OF AT&T TEXAS/SWBT FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING, THE CONTRACTOR SHALL EXPOSE THE SBC FACILITIES.

WHEN AT&T TEXAS/SWBT FACILITIES ARE EXPOSED, THE CONTRACTOR WILL PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT.

THE PRESENCE OR ABSENCE OF AT&T TEXAS/SWBT UNDERGROUND CONDUIT FACILITIES OR BURIED CABLE FACILITIES SHOWN ON THESE PLANS DOES NOT MEAN THAT THERE ARE NO DIRECT BURIED CABLES OR OTHER CABLE IN CONDUIT IN THE AREA.

PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER, MR. ROOSEVELT LEE JR. AT (713) 567-4552 OR EMAIL HIM AT RL7259@ATT.COM, IF THERE ARE QUESTIONS ABOUT BORING OR EXCAVATIONS NEAR OUR AT&T TEXAS/SWBT FACILITIES.

NOTE:  
IN CASE OF CONFLICT BETWEEN DETAILS SHOWN ON THIS  
SHEET AND THE CITY OF PEARLAND DESIGN STANDARDS,  
THE MORE STRINGENT SHALL APPLY.

[illegible]

PEARLAND, TEXAS

# SOUTHERN TRAILS PONDS REHABILITATION

## GENERAL CONSTRUCTION NOTES

**LJA Engineering, Inc.**

1904 W. Grand Parkway North  
Suite 100  
Katy, Texas 77449

Phone 713.953.5200  
Fax 713.953.5026  
FRN-F-1386

LJA PROJECT NO.: 1018-0027

DRAWN: EL DESIGN: EL DATE: MAY 2024

SCALE: SHEET NO. 2 OF 13





Path Name : I:\Projects\1018-0027\VCAD\Street\_Files\03\_Overall\_Layout.dwg



NOTES:

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IN CASE OF CONFLICT BETWEEN DETAILS SHOWN ON THIS SHEET AND THE CITY OF PEARLAND DESIGN STANDARDS, THE MORE STRINGENT SHALL APPLY.

DATE	REVISION	BY

PEARLAND, TEXAS

SOUTHERN TRAILS PONDS REHABILITATION

OVERALL LAYOUT

**LJA Engineering, Inc.**  
1904 W. Grand Parkway North Suite 100  
Katy, Texas 77449  
Phone 713.953.5200  
Fax 713.953.5026  
FRN-F-1386

LJA PROJECT NO.: 1018-0027  
DRAWN: EL DESIGN: EL DATE: MAY 2024

SCALE: 1" = 150' SHEET NO. 3 OF 13

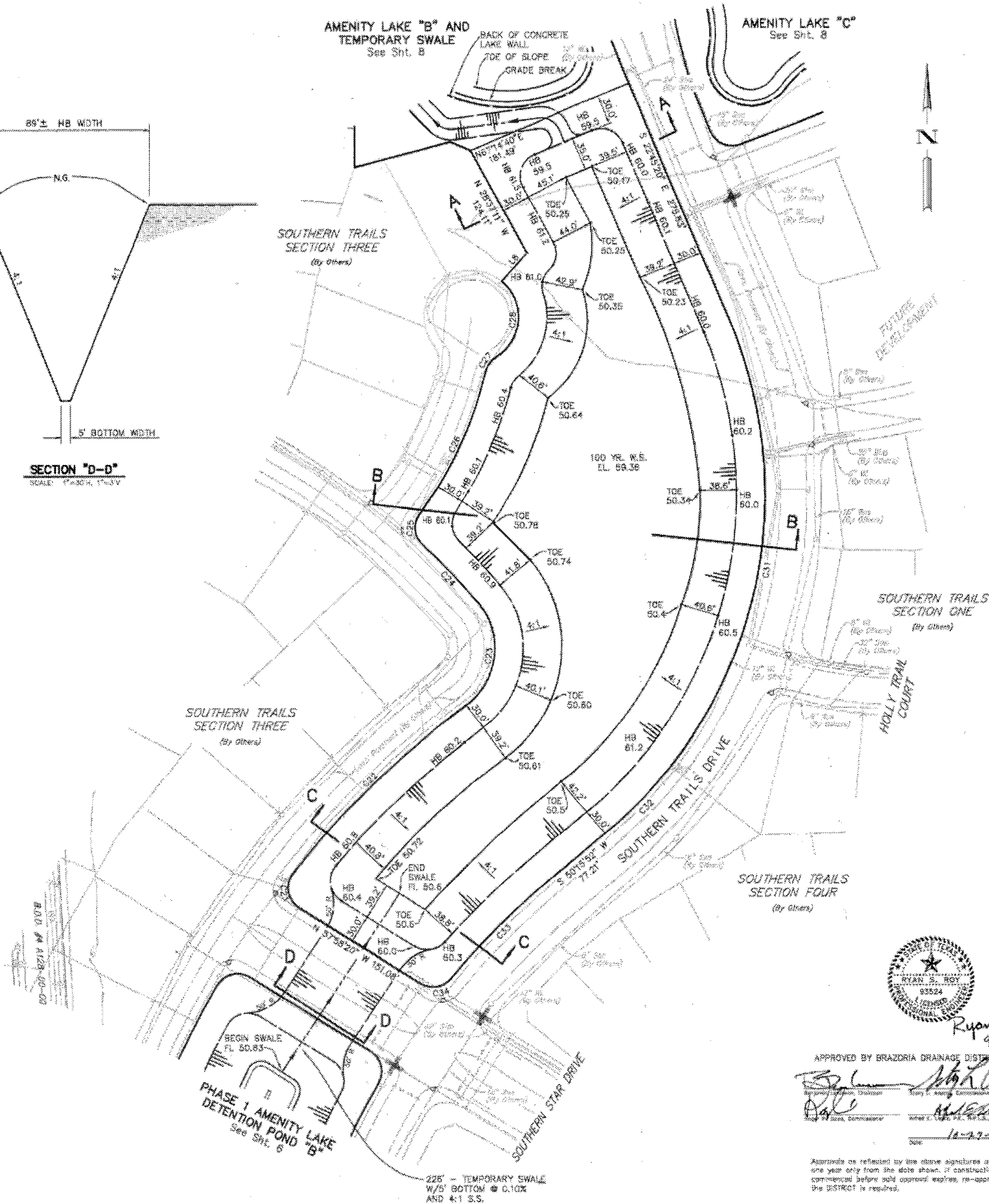
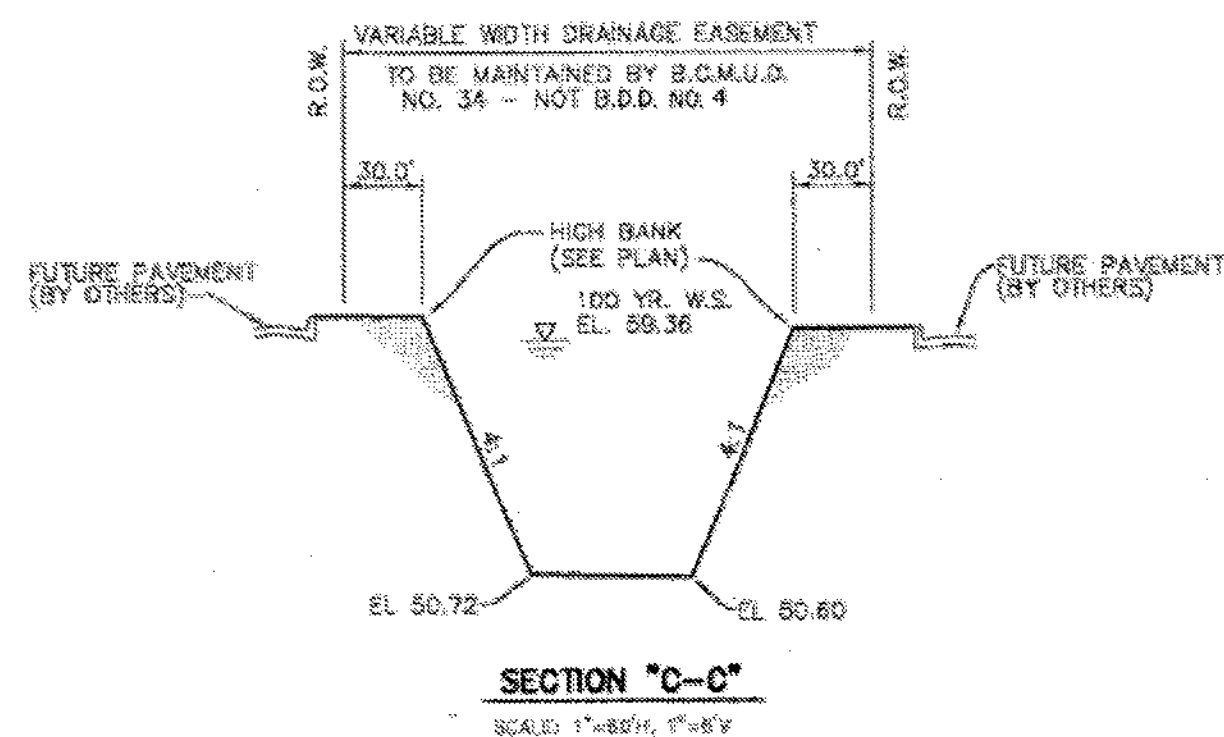
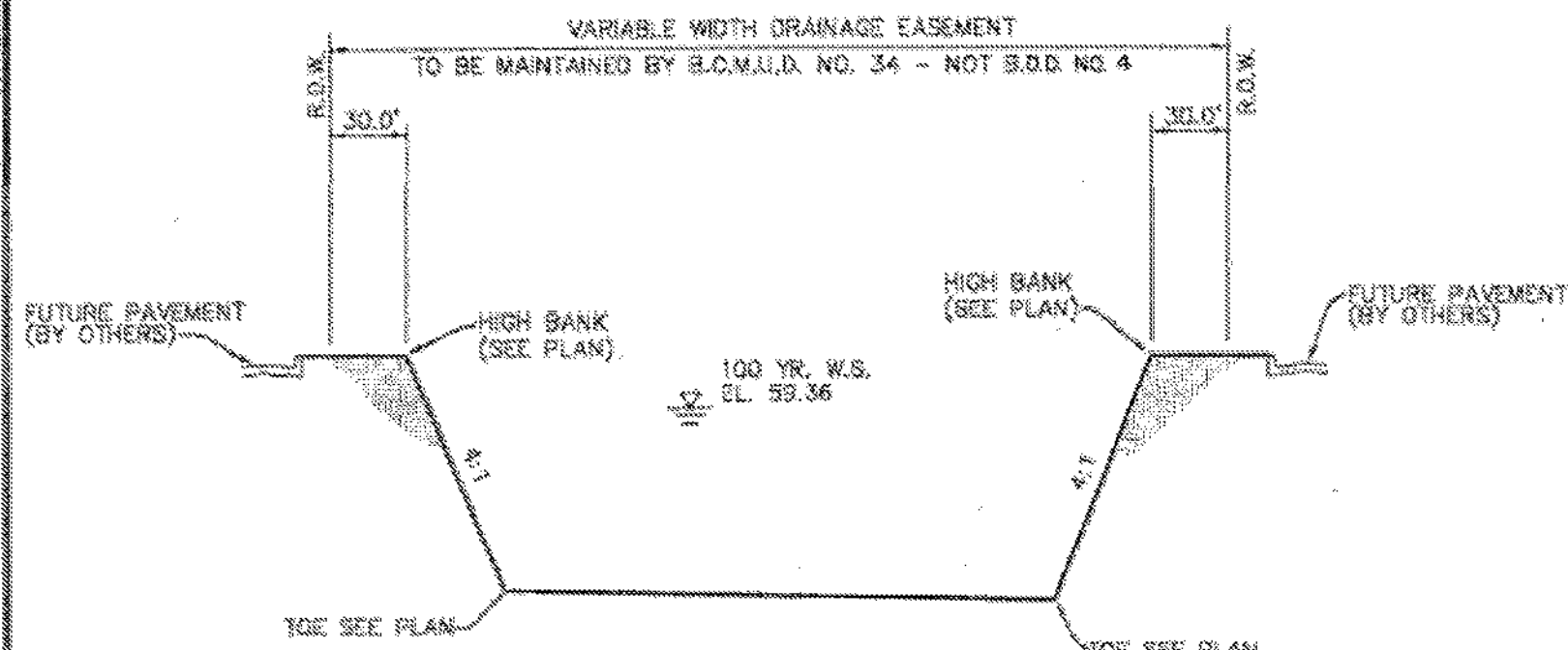
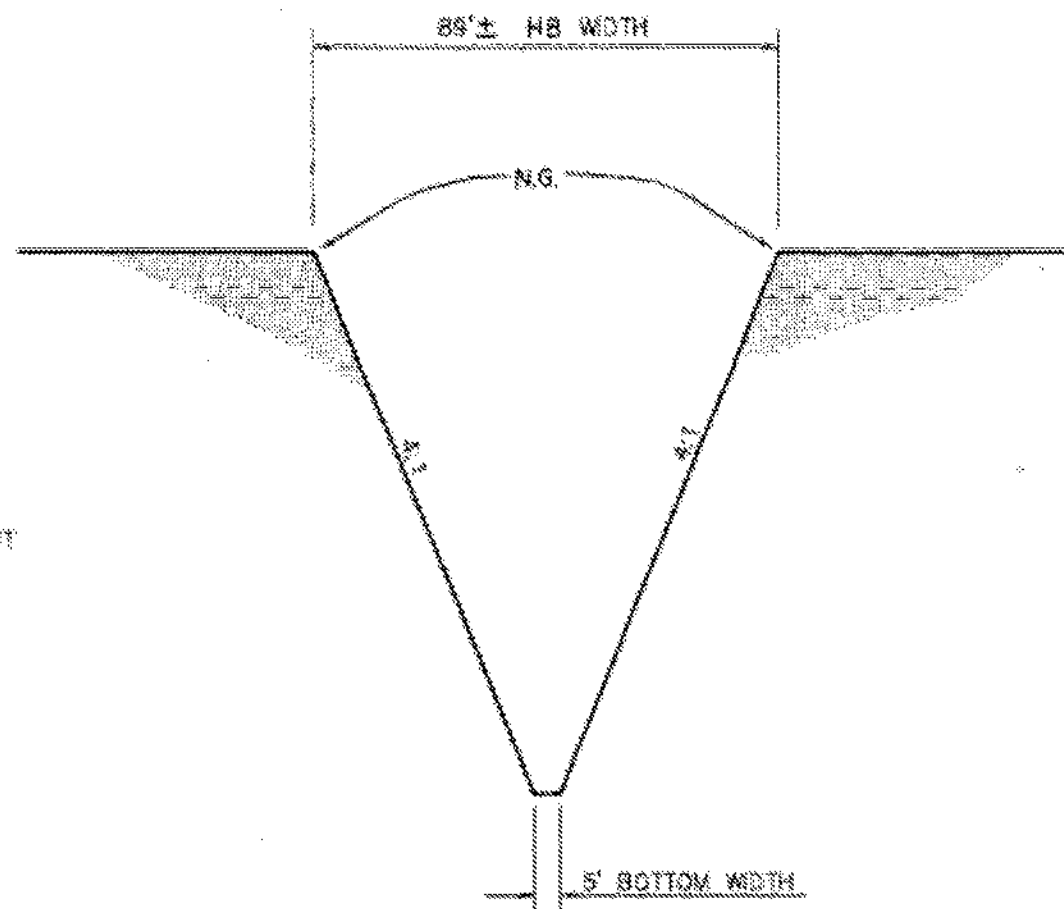
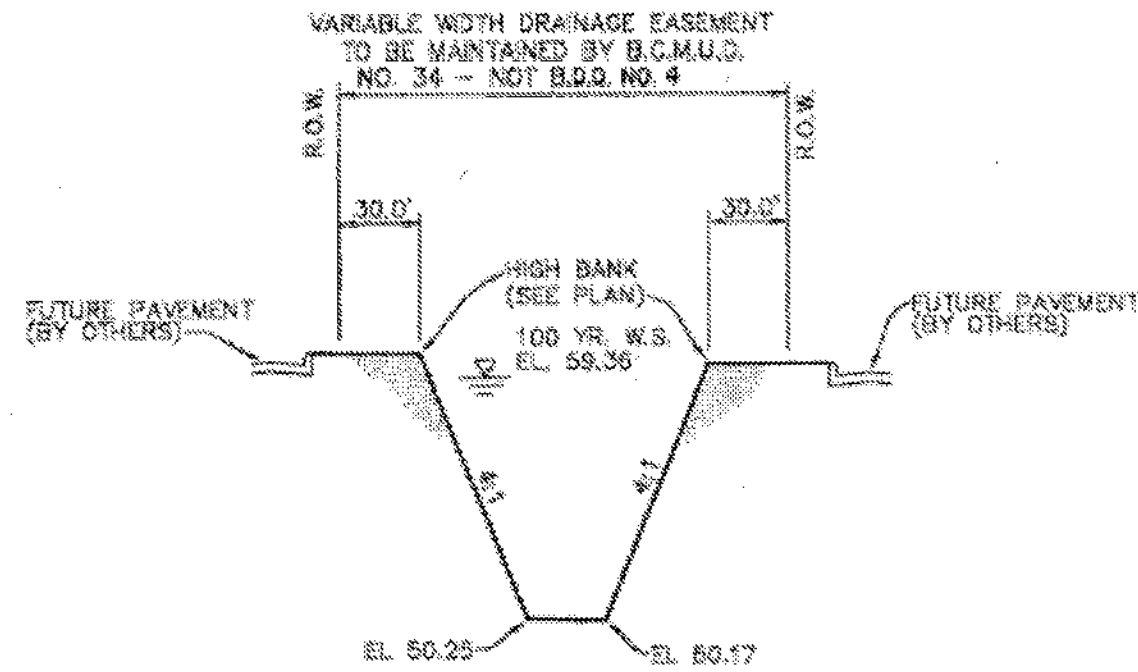


LEGEND  
SHORE SOX



NUMBER	DELTA ANGLE	HAZARD (FT.)	ARC LENGTH (FT.)	CURVED DIRECTION	CURVED DISTANCE (FT.)
001	98° 17' 52"	22.00	42.01	N 89° 49' 48" W	37.74
002	15° 55' 01"	980.00	258.37	N 49° 48' 42" E	258.84
003	9° 29' 08"	778.00	122.72	N 40° 36' 52" E	139.18
004	48° 20' 19"	778.00	80.72	N 43° 12' 04" W	85.05
005	81° 38' 34"	28.00	30.35	N 05° 05' 02" W	31.01
006	122° 22' 32"	426.00	197.21	N 84° 58' 30" E	186.13
007	44° 31' 38"	78.00	19.42	S 87° 56' 14" E	19.34
008	102° 58' 51"	80.00	94.22	N 14° 13' 00" E	80.88
009	90° 00' 00"	88.00	98.27	S 48° 14' 45" E	35.39
010	18° 31' 55"	550.00	179.49	S 12° 59' 37" E	178.38
011	80° 48' 58"	435.00	498.47	S 07° 37' 39" W	478.42
012	17° 12' 15"	478.00	190.82	S 44° 58' 10" E	189.33
013	13° 46' 33"	788.00	146.70	S 44° 52' 05" W	146.48
014	87° 32' 51"	25.00	38.91	S 80° 45' 29" W	32.98

NUMBER	DIRECTION	DISTANCE
18	N 40° 12' 55" W 61.14'	



APPROVED BY BRAZORIA DRAINAGE DISTRICT NO. 4  
*Ryan J. Ray*  
12-27-09  
12-27-09

BENCHMARKS:  
CITY OF PEARLAND REFERENCE BENCHMARK  
MINIMUM ONE (1) BRASS SET FLUSH IN CONCRETE  
STAMPED "CITY OF PEARLAND 8 - CIP MON. 1985"  
THE MONUMENT IS LOCATED IN THE NORTHWEST CORNER  
OF THE INTERSECTION OF THE WEST ACCESS ROAD TO  
HIGHWAY 288 AND COUNTY ROAD 92 AND F.M. 519  
THE MONUMENT IS APPROXIMATELY 200 FEET NORTH OF  
THE SOUTHWEST CORNER OF A CONCRETE PAD FOR STORM  
DRAIN INLETS.  
ELEVATION = 58.02 NAVD 83 1987 ADJUSTMENT  
ADD 0.18 FEET FOR NAVD 86, 1991  
PROJECT REFERENCE BENCHMARKS:  
N.G.S. BRASS DISK STAMPED "1988 1988" LOCATED  
ALONG F.M. 521, EAST OF THE PRESENT ROAD, IN  
THE NORTHEAST CORNER HEADWALL OF THE FORMAL  
HIGHWAY BRIDGE OVER A CREEK, ABOUT 0.15 NORTH  
OF THE POINT BEND - HARRIS COUNTY LINE.  
ELEVATION = 51.785 NAVD 86 1991 ADJUSTMENT  
T.B.M. # 5914 "M" IN CONCRETE AT THE SOUTHWEST  
CORNER OF F.M. 5224 AND STATE HIGHWAY 288, IN  
THE NORTH BOUND U-TURN ESPALANADE OF STATE  
HIGHWAY 288 FRONTAGE ROAD.  
X = 3140126.0284  
Y = 822850.4813  
ELEVATION = 58.83 NAVD 86 1991 ADJUSTMENT  
TBM 1-2-1 3/8" I. Rod with "Brown and Gay  
Engineers" cap set on High Bank of  
S.C.D. Drain approximately 1500  
feet east of County Road 48 and 2000  
feet south of C.D. 82 located 94  
feet northeast off north end and  
47.5 feet northeast off south end of  
80 inch C.W.  
Elev. 62.73 NAVD 86, 1991 Adjustment  
TBM 1-35-1 "T" Cap on north end of a 24" S.C.P.  
located at the northwest corner of  
intersection of County Road 48 and  
County Road 55  
Elev. 65.71 NAVD 86, 1991 Adjustment

REV. NO.	DATE	DESCRIPTION	S.E. APPROV.
1			
2			

<b>BROWN &amp; GAY</b> CIVIL ENGINEERS & SURVEYORS 11400 WESTERN AVE., SUITE 750 HOUSTON, TEXAS 77067 (281) 858-8700	<b>BRAZORIA COUNTY M.U.D. 34</b> (CITY OF PEARLAND, TEXAS) <b>SOUTHERN TRAILS</b> <b>SPOIL DISPOSAL FOR DETENTION</b> <b>PONDS AND AMENITY LAKES</b> <b>FINAL</b> <b>DETENTION CHANNEL "A"</b> JOB NUMBER: 03465-50 SUBMITTED: BROWN & GAY ENGINEERS, INC. DESIGNED BY: G.R. SCALE: 1"=40' DRAWN BY: G.S. DATE: SEPTEMBER 24, 2004 SHEET NO. 7 OF 11 SHEETS SURVEY BY: BROWN & GAY ENGINEERS, INC. C.E. NO.
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NOTES:

NOTE:  
IN CASE OF CONFLICT BETWEEN DETAILS SHOWN ON THIS SHEET AND THE CITY OF PEARLAND DESIGN STANDARDS, THE MORE STRINGENT SHALL APPLY.

DATE	REVISION	BY

PEARLAND, TEXAS

SOUTHERN TRAILS PONDS REHABILITATION

EXISTING DETENTION POND A

**LJA Engineering, Inc.**  
1904 W. Grand Parkway North Suite 100  
Katy, Texas 77449  
Phone 713.953.5200  
Fax 713.953.5026  
FRN-F-1386

LJA PROJECT NO.: 1018-0027  
DRAWN: EL DESIGN: EL DATE: MAY 2004

SCALE: SHEET NO. 4 OF 13

SOUTHERN TRAILS PONDS REHABILITATION - JOB NUMBER 1018-0027

FOR REFERENCE ONLY



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PEARLAND, TEXAS

EXISTING DETENTION POND

LA PROJECT NO.: 1018-0027

SCALE: SHEET NO. 5 OF 1

REF ID: A66666

CITY OF PEAKLAND REFERENCE BENCHMARK  
MONUMENT GNS - 9. BRASS SET FLUSH IN CONCRETE.  
STAMPED "CITY OF PEAKLAND - 9 - 6/86 MALLS, TEXAS".  
THE MONUMENT IS LOCATED IN THE NORTHWEST CORNER  
OF THE INTERSECTION OF THE WEST ACCESS ROAD TO  
HIGHWAY 236 AND 3/4" CONCRETE DRIVE. THE  
MONUMENT IS APPROXIMATELY 50 FEET NORTH OF  
DRAIN INLET AND 32.5 FEET WESTWEST OF THE  
SOUTHWEST CORNER OF A CONCRETE PAD FOR STORAGE  
DRAIN INLETS.

ELEVATION = 59.53 NAVD 83 1987 ADJUSTMENT  
±0.18 FEET NAVD 83, 1987

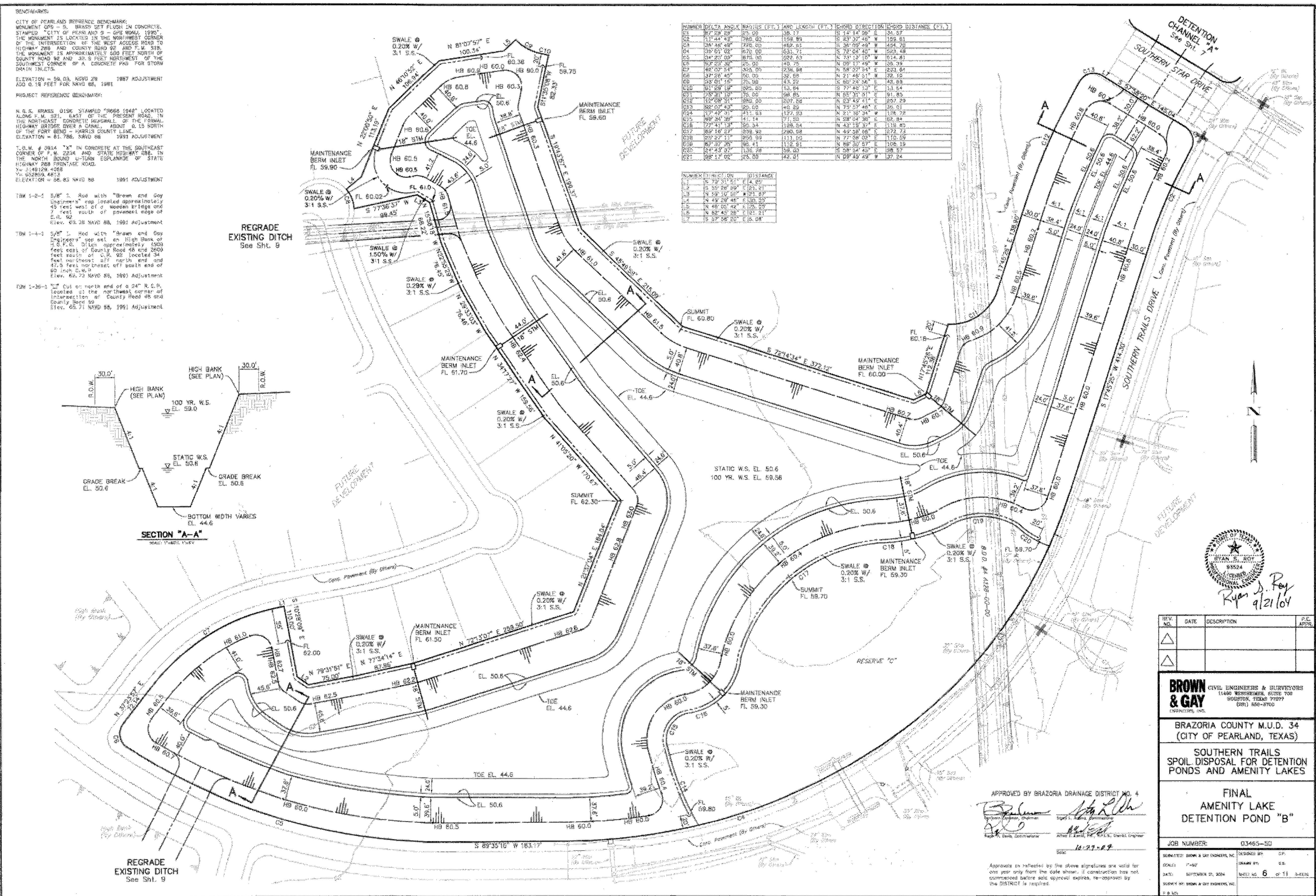
PROJECT REFERENCE BENCHMARK:  
N. & S. BRASS DISK STAMPED "1968 1968" LOCATED  
ALONG E. 1/4" S. 1/4" CORNER OF THE PRESENT ROAD. IN  
THE NORTHWEST CORNER NEARLY OF THE FORMER  
HIGHWAY DIVISION SEVER A CANAL. ABOUT 0.5 NORTH  
ELEVATION = 81.78 NAVD 83 1983 ADJUSTMENT  
±0.18 FEET NAVD 83

T.B.M. # 0914 "1" IN CONCRETE AT THE SOUTHWEST  
CORNER OF F.W. 2254 AND STATE HIGHWAY 88B.  
ON THE FORMER CORNER OF SPRINGDALE OF STATE  
HIGHWAY 88B FRENCH ROAD.  
U.S. 1481219 4305  
U.S. 1481219 4305  
ELEVATION = 62.83 NAVD 83 1981 ADJUSTMENT  
±0.18 FEET NAVD 83

TBM 1-2-2 5/8" 1 Rod with "Araden and Day  
Engineers" inscribed on top of rod.  
2 feet south of concrete bridge and  
2 feet south of sewerage side of  
C.R. 92  
Elev. 62.28 NAVD 83, 1981 Adjustment  
±0.18 FEET NAVD 83

TBM 1-2-3 5/8" 1 Rod with "Araden and Day  
Engineers" rod set on High Bank of  
C.R. 92. C.R. 92 is approximately 1500  
feet S.W. of corner of 62nd and 92nd  
feet south of C.R. 92 located 34  
feet northeast of north end  
of 62nd from C.R. 92  
Elev. 62.72 NAVD 83, 1981 Adjustment  
±0.18 FEET NAVD 83

TBM 1-26-2 1" Cyl on north end of a 24" C.R. 26,  
located at the northwest corner of  
Intersection of County Road 45 and  
County Road 26.  
Elev. 65.71 NAVD 83, 1981 Adjustment  
±0.18 FEET NAVD 83



APPROVED BY BRAZORIA DRAINAGE DISTRICT NO. 4

*[Signature]* *[Signature]*  
District Engineer, Chairman Surveyor, District Commissioner

*[Signature]* *[Signature]*  
District Engineer, District Commissioner

10-27-89

Approvals as reflected by the above signatures are valid for one year only from the date shown. If construction has not commenced before said approval expires, re-approval by the DISTRICT is required.

REV. NO.	DATE	DESCRIPTION	P.E. APPRO.
△			
△			

**BROWN & GAY** CIVIL ENGINEERS & SURVEYORS  
14400 WESTHEIMER, SUITE 700  
HOUSTON, TEXAS 77077  
(281) 550-8700

BRAZORIA COUNTY M.U.D. 34  
(CITY OF PEARLAND, TEXAS)

SOUTHERN TRAILS  
SPOIL DISPOSAL FOR DETENTION  
PONDS AND AMENITY LAKES

FINAL  
AMENITY LAKE  
DETENTION POND "B"

JOB NUMBER:	03465-50
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DESIGNED BY: JMS	DATE: SEPTEMBER 28, 2004
CHECKED BY: GJS	SCALE: 1"=50'
DRAWN BY: GJS	SHEET NO. 6 OF 11 SHEETS
SURVEY BY: BROWN & CALY ENGINEERS, INC.	

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SOUTHERN TRAILS PONDS REHABILITATION – JOB NUMBER 1018-0027



[illegible]

PEARLAND, TEXAS

## SOUTHERN TRAILS PONDS REHABILITATION

EXISTING DETENTION POND C

**LJA Engineering, Inc.**   
1904 W. Grand Parkway North Phone 713.953.5200  
Suite 100 Fax 713.953.5026  
Katy, Texas 77449 FRN-F-1386

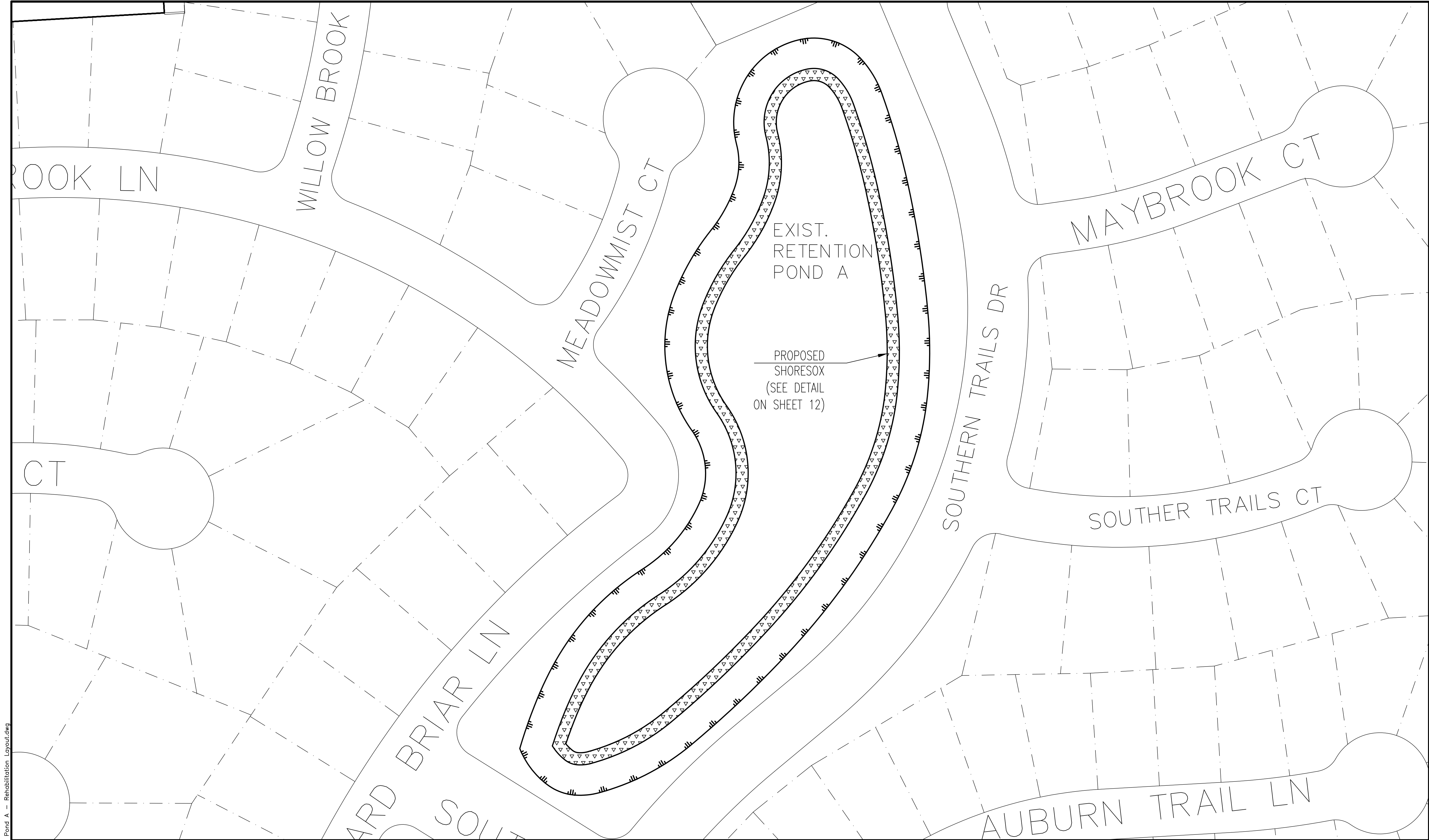
LJA PROJECT NO.: 1018-0027

SCALE: SHEET NO. 6 OF 13

SOUTHERN TRAILS PONDS REHABILITATION - JOB NUMBER 1018-0027



Path Name : I:\Projects\1018\0027\VCAD\_Sheet\_Files\07 Detention Pond A - Rehabilitation Layout.dwg



NOTES:

NOTE:  
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DATE	REVISION	BY

PEARLAND, TEXAS

SOUTHERN TRAILS PONDS REHABILITATION

DETENTION POND A REHABILITATION LAYOUT

**LJA Engineering, Inc.**

1904 W. Grand Parkway North  
Suite 100  
Katy, Texas 77449

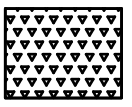
Phone 713.953.5200  
Fax 713.953.5026  
FRN-F-1386


LJA PROJECT NO.: 1018-0027

DRAWN: EL DESIGN: EL DATE: MAY 2024

SCALE: 1" = 50' SHEET NO. 7 OF 13

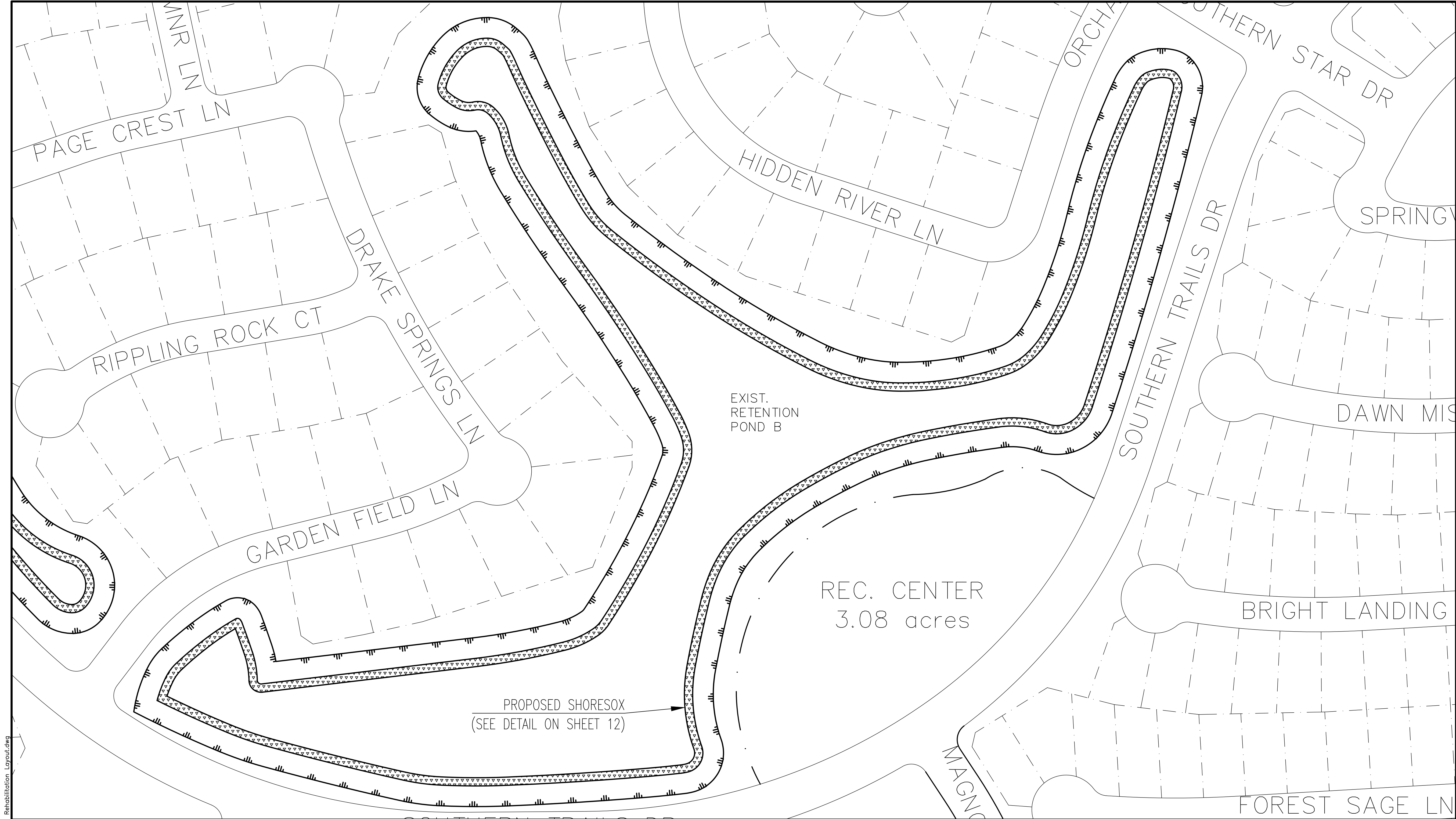
LEGEND

 SHORE SOX





Path Name : I:\Projects\1018\0027\VCAD\Sheet\_Files\08 Detention Pond B - Rehabilitation Layout.dwg



LEGEND

 SHORE SOX



NOTES:

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PEARLAND, TEXAS

SOUTHERN TRAILS PONDS REHABILITATION

DETENTION POND B REHABILITATION LAYOUT

**LJA Engineering, Inc.**  
1904 W. Grand Parkway North  
Suite 100  
Katy, Texas 77449

Phone 713.953.5200  
Fax 713.953.5026  
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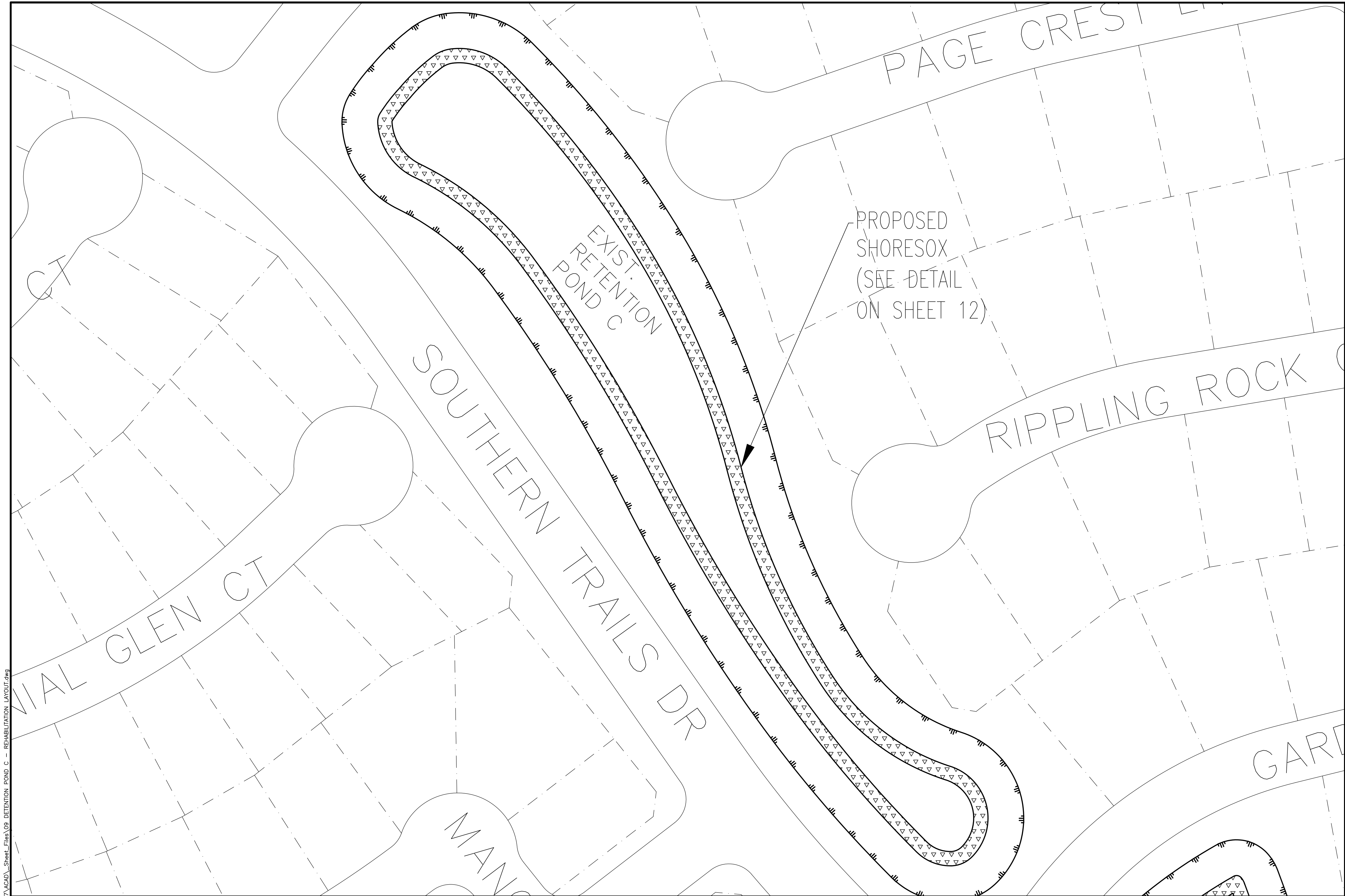
LJA PROJECT NO.: 1018-0027

DRAWN: EL DESIGN: EL DATE: MAY 2024

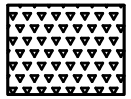
SCALE: 1" = 75' SHEET NO. 8 OF 13



Path Name : I:\Projects\1018-0027\VCAD - Street\_Files\09 DETENTION POND C - REHABILITATION LAYOUT.dwg



LEGEND



SHORE SIX



NOTES:

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DATE	REVISION	BY

PEARLAND, TEXAS
SOUTHERN TRAILS PONDS REHABILITATION
DETENTION POND C REHABILITATION LAYOUT

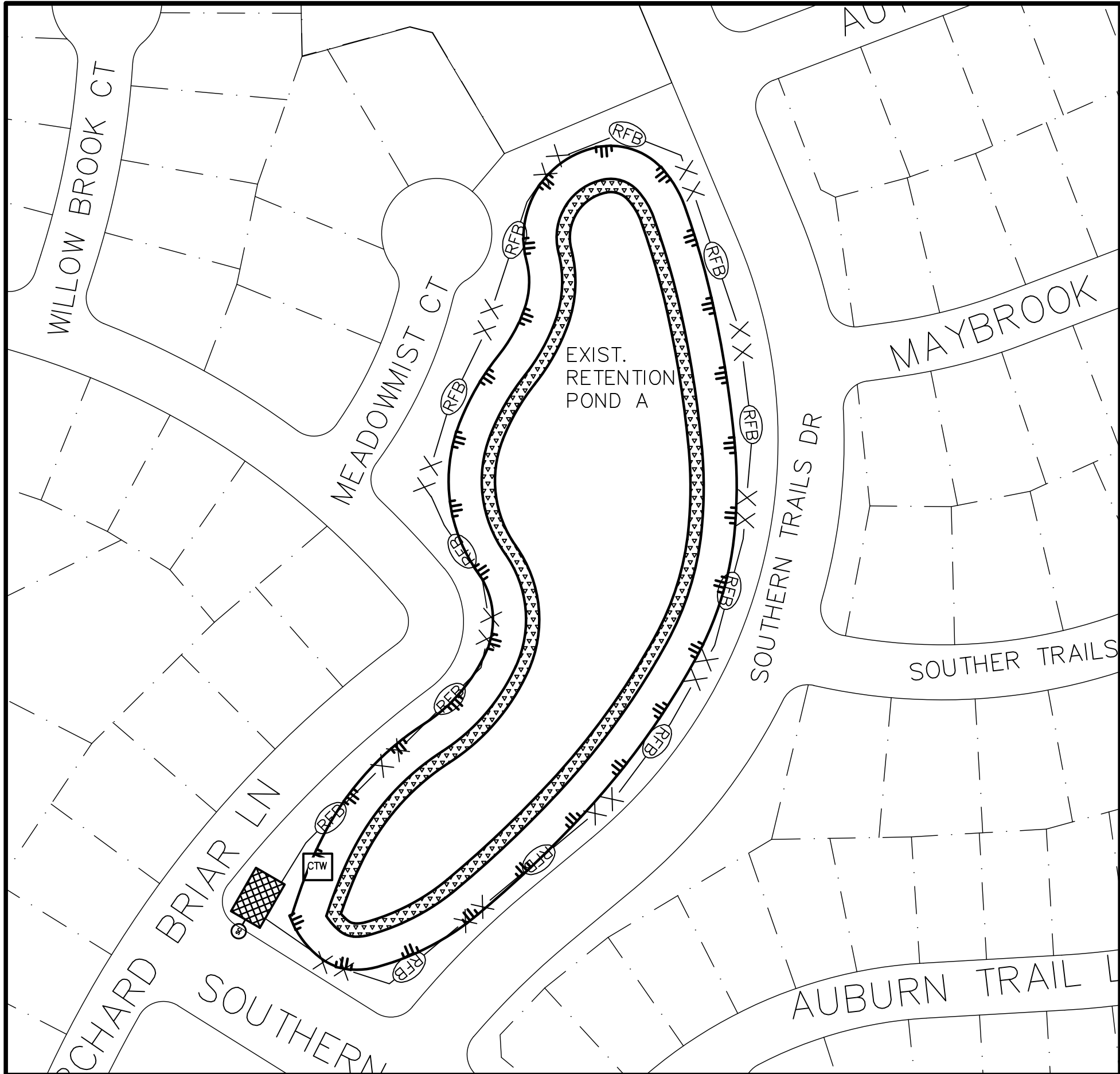
**LJA Engineering, Inc.**  
1904 W. Grand Parkway North Suite 100  
Katy, Texas 77449  
Phone 713.953.5200  
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LJA PROJECT NO.: 1018-0027  
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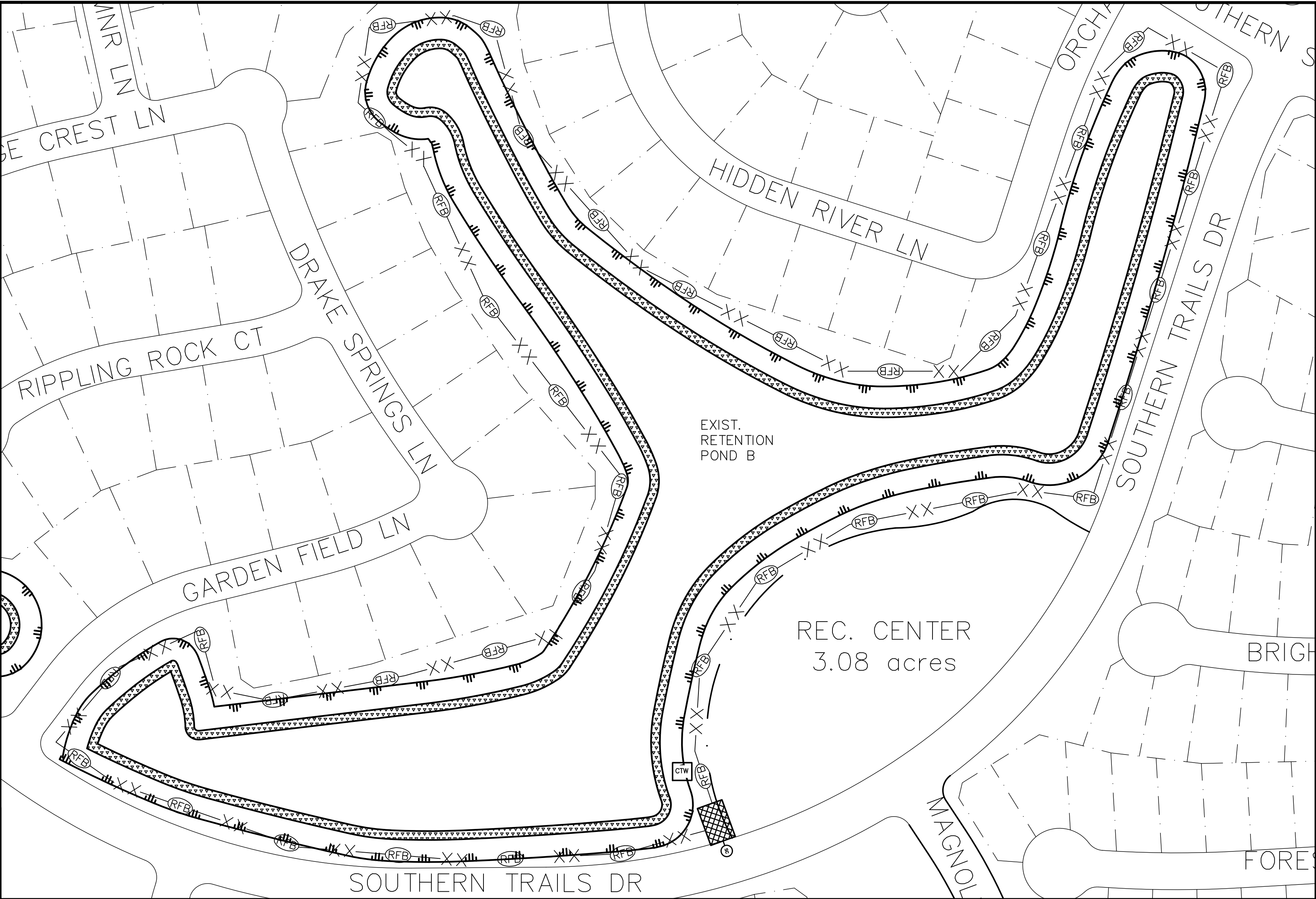
SCALE: 1" = 40' SHEET NO. 9 OF 13



Path Name : I:\Projects\1018-0027\CAD\Sheet\_Files\10 STORM WATER PREVENTION POLLUTION PLAN LAYOUT.dwg



BASIN A



BASIN B

**LEGEND**

STABILIZED CONSTRUCTION EXIT

REINFORCED FILTER FABRIC SILT BARRIER FENCE

INDICATES CONCRETE TRUCK WASH OUT AREA

CONSTRUCTION SPECIFICATIONS FOR SILT BARRIER FENCE

A. MATERIAL

1. MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS (PER ASTM METHODS):	
PHYSICAL PROPERTY	REQUIREMENTS
FILTERING EFFICIENCY	75% (MIN.)
MAX. ELONGATION	STD. STRENGTH = 30 LBS./LIN. IN.(MIN.)
FLOW RATE	0.3 GAL./SQ. FT./MIN. (MIN.)

B. INSTALLATION

- THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 18" AND A MAXIMUM OF 36" ABOVE FINAL GRADE.
- STANDARD STRENGTH SYNTHETIC FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL AND CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS (AND THUS IMPROVE THE BARRIER'S STRENGTH AND EFFICIENCY).
- STAKES FOR THE SILT FENCE SHALL BE 2" x 2" WOOD WITH A MINIMUM LENGTH OF 3 FEET. METAL STAKES OR T-POSTS MAY BE USED IN LIEU OF WOOD POSTS.
- THE STAKES SHALL BE SPACED A MAXIMUM OF 6' APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (12" MIN.)
- A TRENCH SHALL BE EXCAVATED APPROX. 4" WIDE AND 4" DEEP ALONG THE LINE OF STAKES AND UPSLOPE FROM THE BARRIER.

C. MAINTENANCE:

- SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- SHOULD THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE, PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE SILT FENCE IS STILL NECESSARY, IT SHALL BE REPLACED IMMEDIATELY.
- SEDIMENT DEPOSITS SHALL BE REMOVED WHEN DEPOSITS REACH APPROX. 1/3 THE HEIGHT OF THE FENCE.
- ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.
- THERE SHOULD BE NO GAPS OR SAGS IN THE SILT FENCE.

- THE SILT FENCE SHALL BE STAPLED TO THE STAKES, WITH 8" (MIN.) OF FABRIC EXTENDED INTO THE TRENCH. HEAVY DUTY WIRE STAPLES AT LEAST ONE-HALF INCH LONG SHALL BE USED. THE FENCE SHALL NOT BE STAPLED TO EXISTING TREES.
- THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FENCE MATERIAL.
- IF A SILT FENCE IS TO BE CONSTRUCTED ACROSS A DITCH LINE OR SWALE, THE BARRIER SHALL BE OF SUFFICIENT LENGTH TO ELIMINATE END FLOW, AND THE PLAN CONFIGURATION SHALL RESEMBLE AN ARC OR HORSESHOE WITH THE ENDS ORIENTED UPSLOPE.
- SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

NOTES:

- FOR STORMWATER POLLUTION PREVENTION PLAN DETAILS, REF: SHEET XX.
- FILTER FABRIC FENCE SHALL BE INSTALLED ON SITE AS INDICATED ON PLAN PRIOR TO CONSTRUCTION.

MAINTENANCE

- EROSION AND SEDIMENT CONTROL MEASURES THAT HAVE BEEN IMPROPERLY INSTALLED OR HAVE BEEN DISABLED, RUN-OVER, REMOVED OR OTHERWISE RENDERED INEFFECTIVE MUST BE REPLACED OR CORRECTED IMMEDIATELY.
- MAINTENANCE AND REPAIRS WILL BE CONDUCTED WITHIN 24 HOURS OF INSPECTION REPORT.

EROSION AND SEDIMENT CONTROLS

- SEDIMENT WILL BE RETAINED ON SITE TO THE MAXIMUM EXTENT PRACTICABLE CONTROL MEASURE WILL BE PROPERLY SELECTED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND GOOD ENGINEERING PRACTICE. IF DAMAGED OR RENDERED INEFFECTIVE, THE EROSION AND SEDIMENT CONTROLS WILL BE REPAIRED OR REPLACED IMMEDIATELY.
- WHEN PUMPING (DEWATERING) STANDING STORM WATER FROM THE SITE, THE OPERATOR SHALL USE APPROPRIATE BEST MANAGEMENT PRACTICES (BMPs) FROM THE STORM WATER MANAGEMENT HANDBOOK FOR CONSTRUCTION ACTIVITIES THAT ADDRESS DEWATERING ACTIVITIES. UNTREATED/DIRECT DISCHARGE INTO A STORM SEWER WILL NOT BE ALLOWED.
- IF THE INTERIM PERIOD BETWEEN CONSTRUCTION OF UTILITIES AND STREET CONSTRUCTION WILL BE MORE THAN 21 DAYS, THE STREET RIGHTS-OF-WAY WILL BE MULCHED OR OTHERWISE STABILIZED WITHIN 14 DAYS.
- AFTER PAVING COMPLETION, NEWLY GRADED AREAS AND ALL EXPOSED SOILS WILL BE COMPLETELY STABILIZED.

NOTES:

NOTE:  
IN CASE OF CONFLICT BETWEEN DETAILS SHOWN ON THIS SHEET AND THE CITY OF PEARLAND DESIGN STANDARDS, THE MORE STRINGENT SHALL APPLY.

DATE	REVISION	BY

PEARLAND, TEXAS

SOUTHERN TRAILS PONDS REHABILITATION

STORM WATER PREVENTION POLLUTION PLAN LAYOUT

**LJA Engineering, Inc.** 1904 W. Grand Parkway North Suite 100 Katy, Texas 77449 Phone 713.953.5200 Fax 713.953.5026 FRN-F-1386

LJA PROJECT NO.: 1018-0027

DRAWN: EL DESIGN: EL DATE: MAY 2024

SCALE: SHEET NO. 10 OF 13

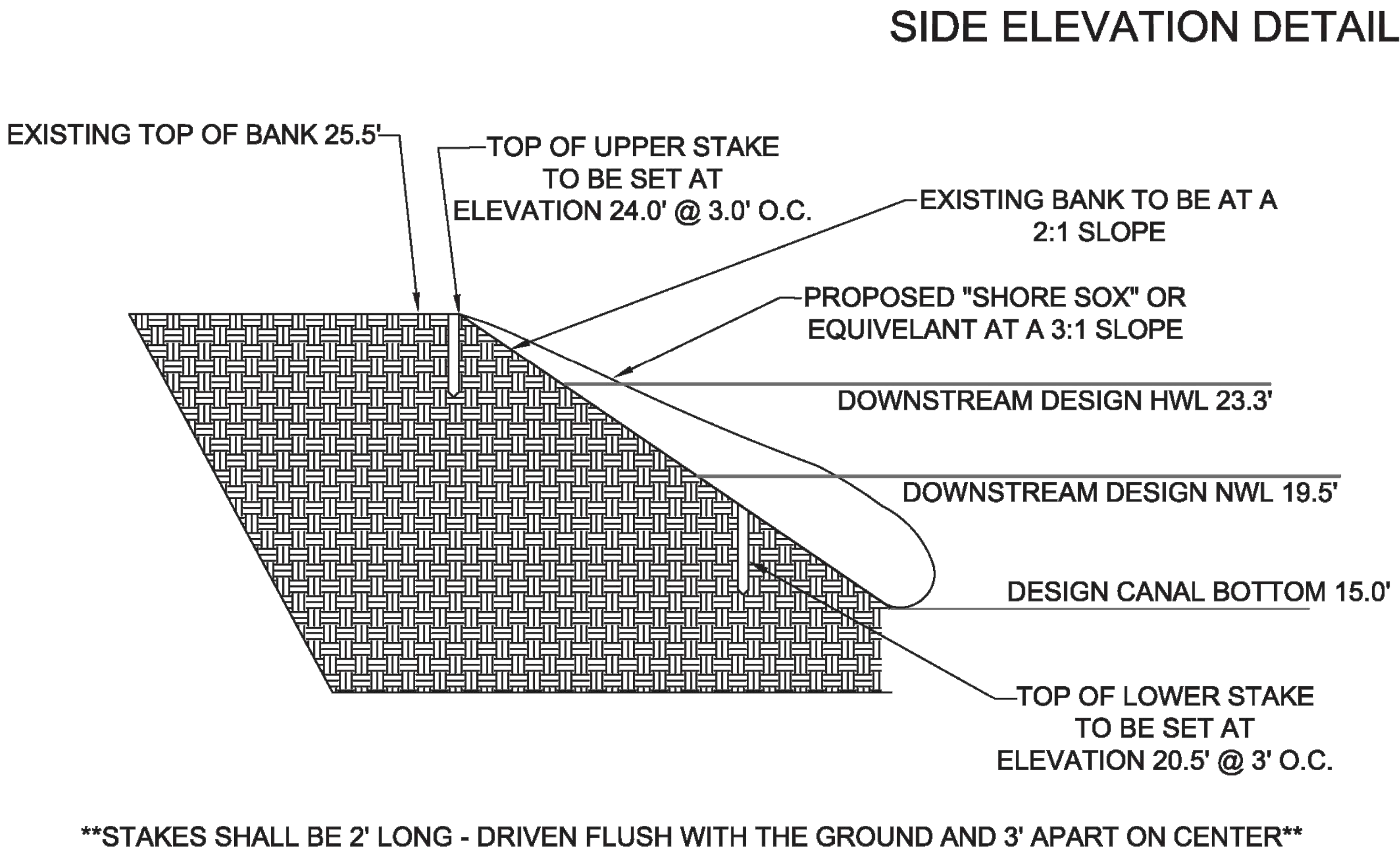
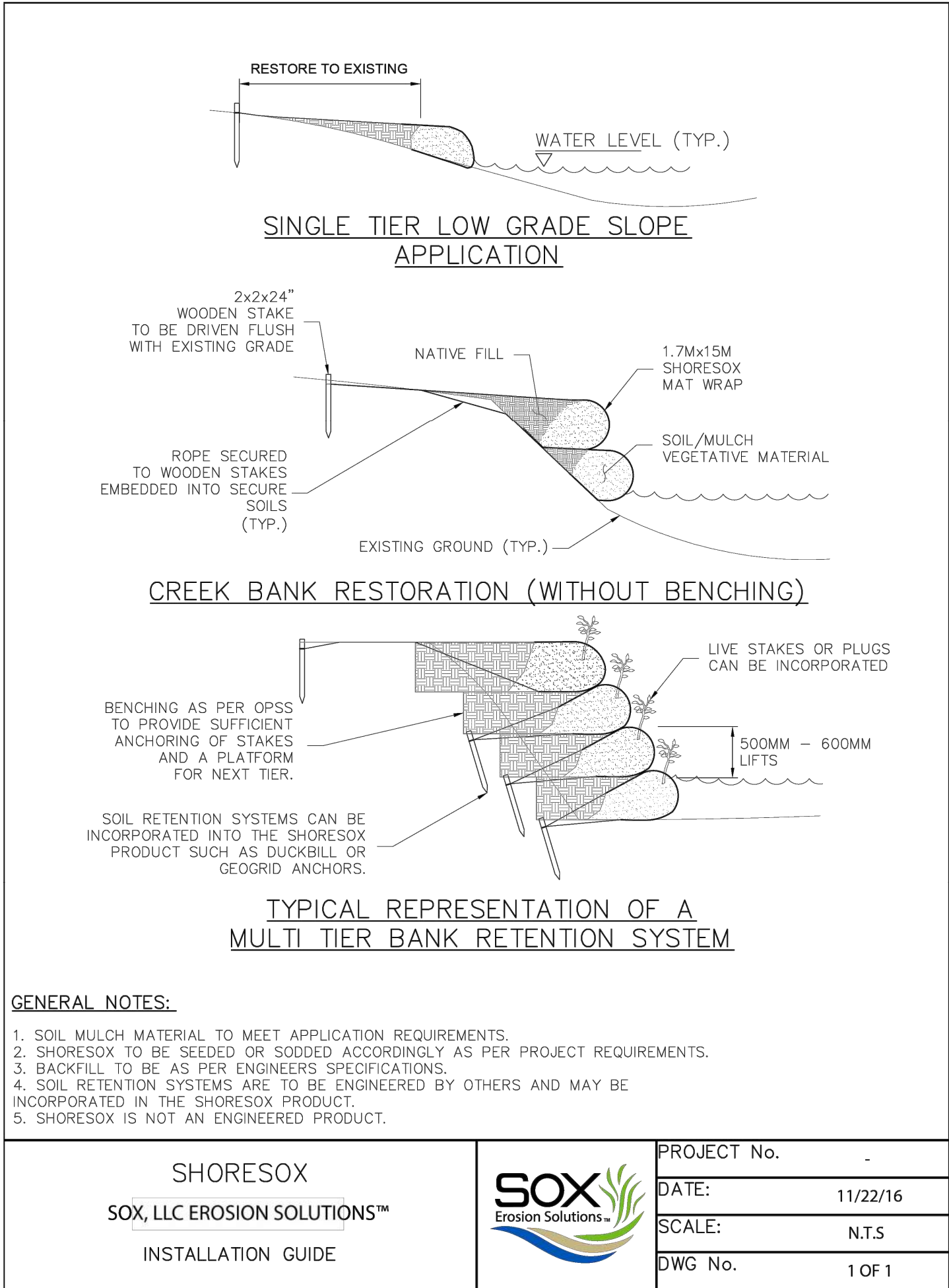
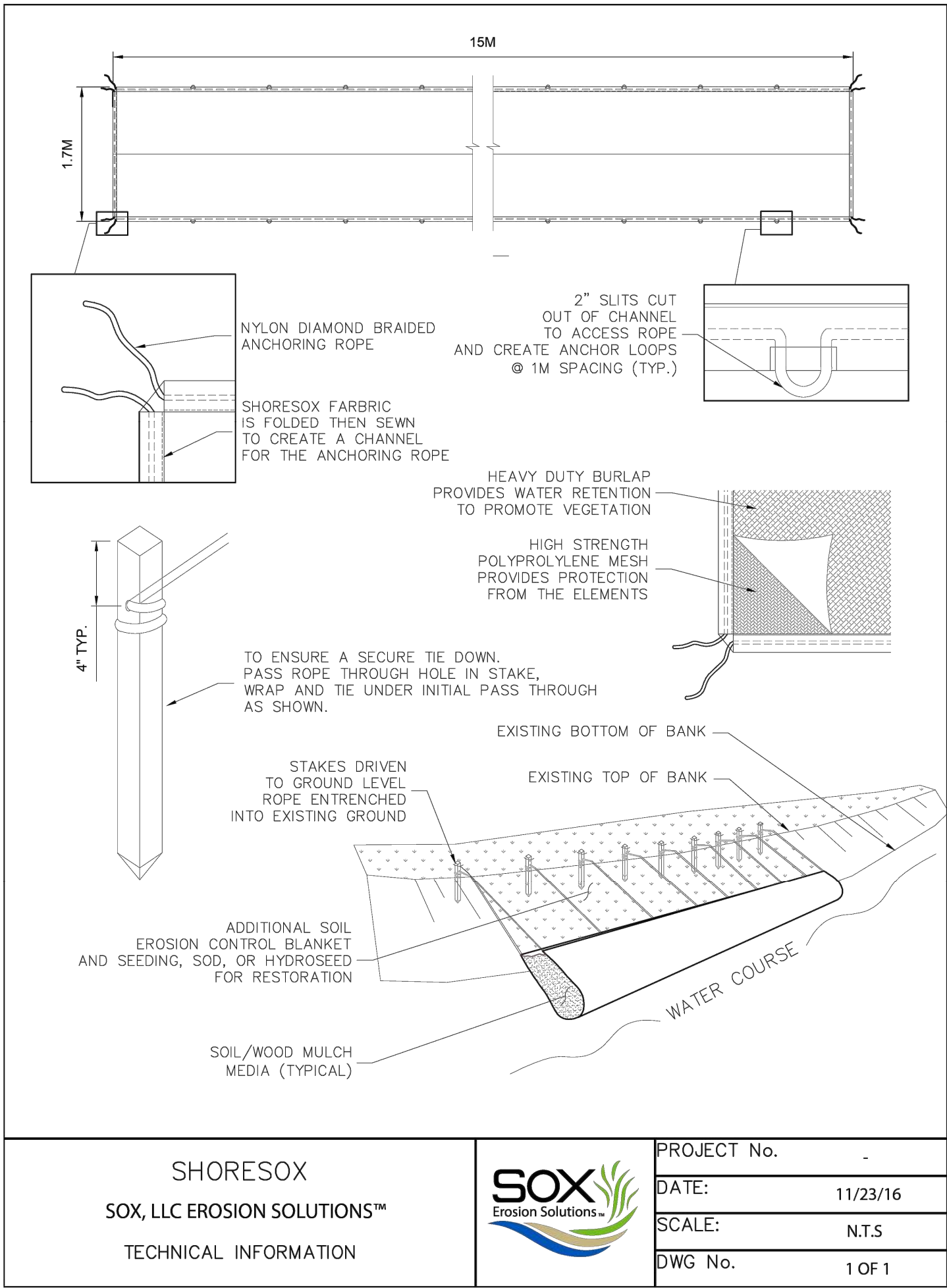








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DATE	REVISION	BY

PEARLAND, TEXAS
SOUTHERN TRAILS PONDS REHABILITATION
SHORESOF DETAIL

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