



CONSTRUCTION PLANS LAKESHORE DRIVE TURNAROUND PROJECT NO.2 (CSJ 0920-38-262) PORT ARTHUR, TEXAS OCTOBER 2022

CONTACT LIST

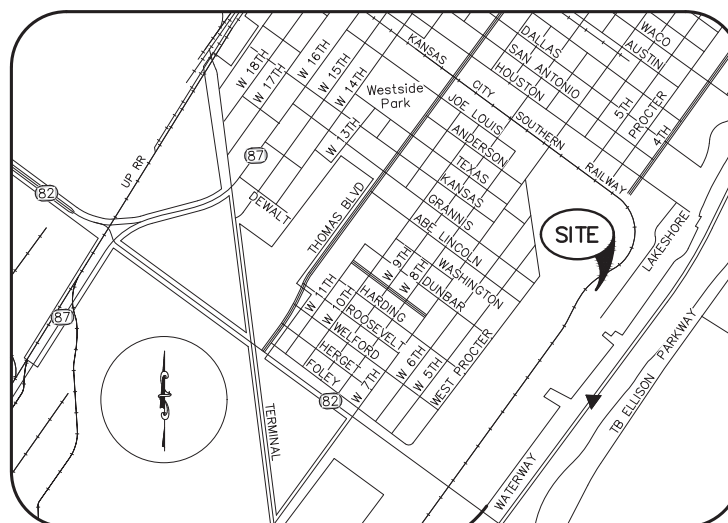
PORT OF PORT ARTHUR DIRECTOR OF ENGINEERING	ED LONG, PE 409-983-2011
PORT OF PORT ARTHUR CONSTRUCTION & MAINTENANCE COORDINATOR	MICHAEL GREEN 409-242-8934
JEFFERSON COUNTY DRAINAGE DISTRICT NO. 7	GARRETT BOUDOIN 409-548-3802
TEXAS GAS SERVICE	TRACE HAMMOND 409-284-4676
ENTERGY (BEAUMONT, PORT ARTHUR, MID COUNTY)	ETHAN BECKER 409-982-5830
AT&T (PORT ARTHUR, GROVES)	MARK WELCH 346-312-7271
SPECTRUM	ROBERT FLANAGAN 409-720-5513
TEXAS ONE CALLS FOR UTILITY LOCATES	811

PORT COMMISSIONERS

PRESIDENT:	JOHN COMEAUX
VICE PRESIDENT:	RANDY T. MARTIN
SECRETARY/TREASURER	LINDA TURNER SPEARS
COMMISSIONER:	RAYMOND JOHNSON
COMMISSIONER:	MARY WYCOFF
EXECUTIVE PORT DIRECTOR/CEO	LARRY KELLEY

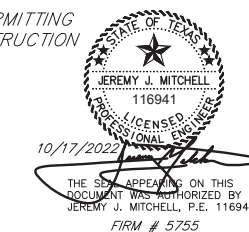
PORT OF PORT ARTHUR APPROVAL

BY: _____
DIRECTOR OF ENGINEERING



SHEET	DESCRIPTION
1	COVER PAGE
2	GENERAL NOTES
3	TOPOGRAPHIC SURVEY/EROSION CONTROL
4	UNDERGROUND UTILITIES RELOCATION EXHIBIT
5	SITE PLAN
6	GRADING PLAN
7	STORM SEWER PLAN & PROFILE
8	JOINT PLAN
9	FENCE DETAILS
10-13	DETAILS

FOR PERMITTING & CONSTRUCTION



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY JEREMY J. MITCHELL, P.E. 116941 FIRM # 5755



3737 Doctors Drive
Port Arthur, Texas 77642
Tel. 409.983.2004
Fax. 409.983.2005
soutexsurveyors.com

T.B.P.E. FIRM #5755 • T.X.L.S. FIRM #101238
PROJECT NO. 21-0586

Surveying

1. Contractor shall provide all onsite general construction surveying, layout, and any other surveying requirements necessary for the construction of the project. Owner will provide initial control points.
2. Existing monuments or property corners shall not be disturbed. The Contractor will replace and accurately relocate all reference points and construction stakes lost, destroyed, or moved solely at his expense.

General Construction Notes

1. References to manufacturer's trade name or catalog numbers are for the purpose of identification only. Similar material from other manufacturers are permitted if they are of equal quality, comply with the specifications for this project, and are approved, except for roadway illumination, electrical, and traffic signal items.
2. All materials and construction shall conform to Port of Port Arthur standards, except as noted herein and approved by the engineer.
3. Any permits or fees required by the City or any other entity shall be paid for by the Contractor.
4. Ingress and egress adjacent to the project shall be maintained by the Contractor at all times. The Contractor will be responsible for keeping mud and debris off existing public streets adjacent to the site.
5. Contractor shall keep one complete set of plans and specifications in good condition on the job site at all times.
6. Upon completion of all project improvements and inspections, and Owner acceptance of these improvements, the Contractor shall be required to furnish an Affidavit of Warranty to Owner for a one (1) year period on all work.
7. All areas disturbed by construction activity shall be restored to an equal or better condition at the expense of the contractor.
8. All culverts shall be protected from damage during construction operations. Culverts damaged as a result of contractor's negligence shall be replaced at contractor's expense.
9. Contractor shall furnish, erect, and maintain all barricades, warning signs, and markings for hazards necessary to protect the public and the work site. When used during periods of darkness, such barricades, warning signs and hazard markings shall be suitably illuminated. All traffic control devices and their placement shall be in accordance with the latest Texas Manual on Uniform Traffic Control Devices. No payment will be made for barricades, signs, and traffic handling, but it will be considered subsidiary to the various bid items.
10. The Port of Port Arthur shall pay for all required testing, including but not limited to required densities for subgrade, base and asphalt, and associated moisture-density relationships. The engineer will sample all concrete and make and test all beams and cylinders in accordance with the test methods provided for under the appropriate standard specifications for the various items.
11. Port of Port Arthur forces will maintain the existing section of streets and its appurtenances not a part of this project except that those sections damaged by the contractor's forces shall be repaired by the contractor at his entire expense.
12. The contractor shall maintain adequate drainage throughout the limits of the project during all construction phases.
13. The contractor shall allow Port of Port Arthur forces to enter this project to accomplish such work as shown in the plans and as may be deemed necessary by the engineer.
14. All drainage structures within the project limits shall be cleaned and unobstructed at the time of acceptance by the Port of Port Arthur.
15. All materials, labor and incidentals required for the contractor to provide for traffic across the streets and for temporary ingress and egress to private property shall be furnished by the contractor at no additional cost to the Port of Port Arthur and shall be considered as incidental to the various bid items in this project.
16. Any storm water permit and associated fees required for construction of this project shall be at the contractor's expense. Also, any temporary erosion, sediment and water control measures required shall be in accordance with the details show in the plans and all work and materials required shall be paid for under the item "Temporary Erosion, Sedimentation & Environmental Controls".
17. Cement stabilized sand for backfill shall be considered subsidiary to any storm sewer, inlets, and junction boxes.
18. All traffic control shall conform to the latest barricade and construction standard sheets issued by TxDot and shall be approved by the engineer prior to construction operations.
19. Erosion control logs shall be installed in accordance with the manufacturer's recommendations, or as directed by the engineer. Logs shall be placed around all storm sewer inlets and pipe openings and shall be maintained as needed.
20. All concrete shall be TXDOT Class P 4000 psi @ 28 days strength.
21. Seal Joints with BASF MasterSeal SL 1 Elastomeric Polyurethane.

Utility Notes

1. Utility locations shown on the plans are for informational purposes only and are not exact. The engineer and the Owner assume no responsibility for variation in location and grades. Contractor shall verify location and elevation of existing utilities prior to construction of proposed facilities. Discrepancies between the two shall be immediately reported to the owner or engineer.
2. Contractor will be responsible for contacting all utility companies with existing facilities in the areas of construction 48 hours prior to construction in areas of possible underground utilities which may or not be shown on drawing. Contractor is responsible for making the Texas One Call and following all requirements set forth through that agency. Contractor is responsible for keeping police and fire departments informed of construction activities.
3. The Contractor shall be responsible for locating and protecting all utility lines during construction. The Contractor shall be responsible for any damage to existing utilities and shall promptly repair same or make arrangements for such repair with the Owner of the utility involved.
4. In all cases the Contractor shall inform and coordinate work with the Owners of the various utilities sufficiently in advance of the contractor's operation to enable such utility Owners, in advance of any work which might damage, interfere with or require adjustments to utilities along or adjacent to the work, to reroute, provide temporary detours, or to make other adjustments to utilities in order that the contractor may proceed with his work with a minimum amount of delay and expense.
5. The contractor shall cooperate with all utility owners concerned in effecting any utility adjustments necessary and shall not hold the Owner or Engineer liable for any expenses due to delay or additional work because of conflicts. The Contractor shall allow utility and/or pipeline companies to enter this project to accomplish such work as required for placement or protection of their services and as may be deemed necessary by the Engineer.
6. All utility adjustments shall be the responsibility of the Owners of the utilities and if, in the opinion of the Engineer, adjustment is required, the Contractor will be responsible for notifying the respective owner.
7. The contractor shall be responsible for confirming the exact location of utility lines and of any others which may exist. It shall be the contractor's responsibility to notify the utility involved in case of conflict or damage and the contractor shall be held responsible for any damage that occurs. Where the contractor encounters abandoned lines that interfere with the construction of this project, such lines shall be removed and disposed of by the contractor. There will be no direct payment for this work and it shall be considered subsidiary to the various bid items in the contract.
8. Before excavating near existing utilities, contact the utility companies or the utility coordinating committee for exact locations to prevent damage or interference with present facilities. Notify the utility coordinating committee and the Texas 811 System. The Port of Port Arthur has existing private fiber optic cables within the project area that are not located by the Texas 811 system. Contractor shall contact the Port 5 working days in advance of excavation to allow marking of the fiber optic line(s).
9. This action does not relieve the Contractor of the responsibilities under the terms of the contract or the plans and specifications. Damage caused by the Contractor's operations shall be repaired and restored to service in a timely manner at no expense to the City or Port of Port Arthur.
10. Notify the Engineer at least 48 hours before constructing storm drains and utilities.
11. If overhead or underground power lines need to be de-energized, contact the electrical service provider to perform this work. Costs associated with de-energizing the power lines or other protective measures required are at no expense to the Port of Port Arthur.
12. If working near power lines, comply with the appropriate sections of Texas State Law and Federal Regulations relating to the type of work involved.
13. Contractor shall be responsible for protecting all public utilities in the construction of this project. All manholes, clean-outs, valve boxes, fire hydrants, etc. must be adjusted to proper line and grade by the contractor prior to and after the placing of permanent paving. Utilities must be maintained to proper line and grade during construction of the paving for this development.
14. Contractor shall protect all manholes covers, valve covers, vault lids, fire hydrants, power poles, guy wires, and telephone boxes that are to remain in place and undisturbed during construction.

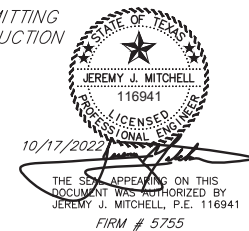
Work Scheduling

1. Contractor shall provide a written schedule describing the sequencing and routes of work.
2. Contractor shall notify Owner no later than 48 hours prior to the commencement of work.
3. Unless otherwise shown on the plans or otherwise directed, commence work after sunrise and ensure construction equipment is off the road by sunset.
4. Contractor shall schedule work in a manner that will cause minimum interference with traffic and to the general public.
5. Ingress and egress to adjacent property shall be maintained by the contractor at all times.
6. Existing parking area shall remain open for parking at all times. Contractor shall coordinate its work area with the Port to minimize amount of area used by the contractor.


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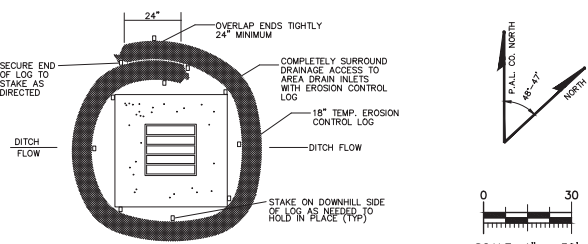
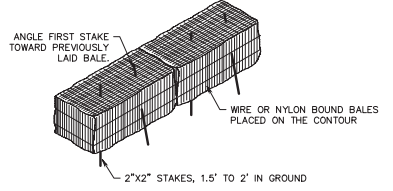
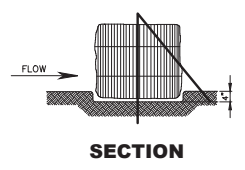
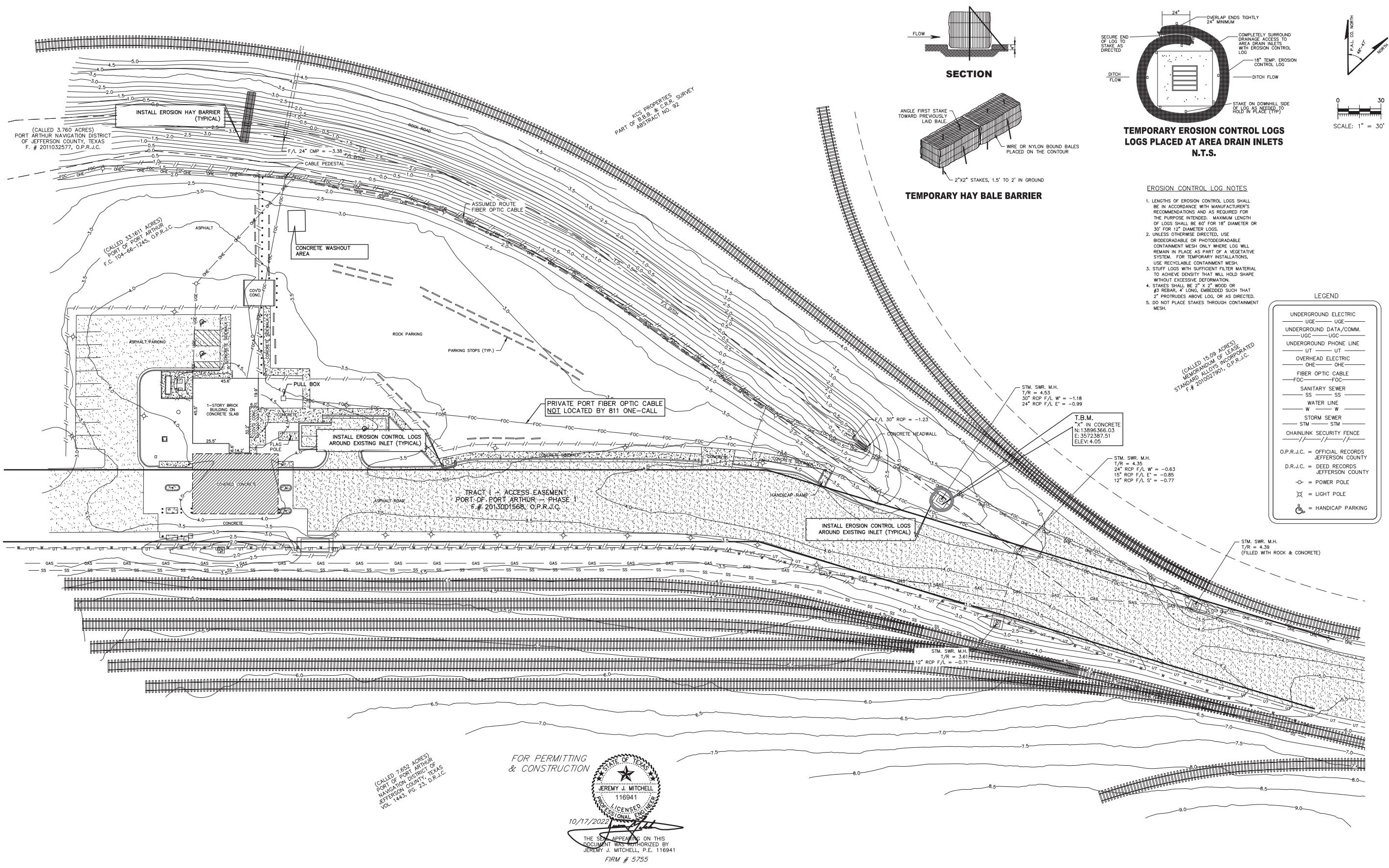
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 <p>3737 Doctors Drive Port Arthur, Texas 77642 Tel. 409.983.2004 Fax 409.983.2005 soutexsurveyors.com</p>	<p>SHEET TITLE</p> <p>GENERAL NOTES</p>	<p>PROJ. NO: 21-0586</p> <p>SCALE:</p> <p>PRINT DATE: 10/17/2022</p> <p>DRAWN BY: TC</p> <p>CHECKED BY: JM</p> <p>APPROVED BY: JM</p>
	<p>PROJECT</p> <p>RIDER 45 - LAKESHORE DRIVE TURNAROUND PORT OF PORT ARTHUR 221 HOUSTON AVENUE PORT ARTHUR, TEXAS 77641</p>	<p>SHEET</p> <p>C2</p>

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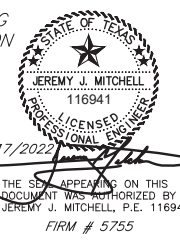


- EROSION CONTROL LOG NOTES**
- LENGTHS OF EROSION CONTROL LOGS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED FOR THE PURPOSE INTENDED. MAXIMUM LENGTH OF LOGS SHALL BE 40' FOR 18" DIAMETER OR 30' FOR 12" DIAMETER LOGS.
 - UNLESS OTHERWISE DIRECTED, USE BIODEGRADABLE OR PHOTOGRADABLE CONTAINMENT MESH ONLY WHERE LOG WILL REMAIN IN PLACE AS PART OF A VEGETATIVE SYSTEM. FOR TEMPORARY INSTALLATIONS, USE RECYCLABLE CONTAINMENT MESH.
 - STUFF LOGS WITH SUFFICIENT FILTER MATERIAL TO ACHIEVE DENSITY THAT WILL HOLD SHAPE WITHOUT EXCESSIVE DEFORMATION.
 - STAKES SHALL BE 2" X 2" WOOD OR #3 REBAR, 4" LONG EMBEDDED SUCH THAT 2" PROTRUDES ABOVE LOG, OR AS DIRECTED.
 - DO NOT PLACE STAKES THROUGH CONTAINMENT MESH.

LEGEND

UNDERGROUND ELECTRIC	UGE
UNDERGROUND DATA/COMM.	UGC
UNDERGROUND PHONE LINE	UT
OVERHEAD ELECTRIC	OHE
FIBER OPTIC CABLE	FOC
SANITARY SEWER	SS
WATER LINE	W
STORM SEWER	STM
CHAINLINK SECURITY FENCE	
O.P.R.J.C. = OFFICIAL RECORDS	JEFFERSON COUNTY
D.R.J.C. = DEED RECORDS	JEFFERSON COUNTY
○ = POWER POLE	
⊕ = LIGHT POLE	
♿ = HANDICAP PARKING	

FOR PERMITTING
& CONSTRUCTION



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This map represents a Topographic Survey made this day 1/21/20 on the ground as shown.

"PRELIMINARY. THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT" (RELEASE DATE: 2/10/20)
ANTHONY M. LEGER
REGISTERED PROFESSIONAL LAND SURVEYOR NO. 5481

SURVEYORS NOTES
1. ELEVATIONS SHOWN HEREON ARE NAVD88 ORTHOMETRIC HEIGHTS DERIVED USING GEOID 12B

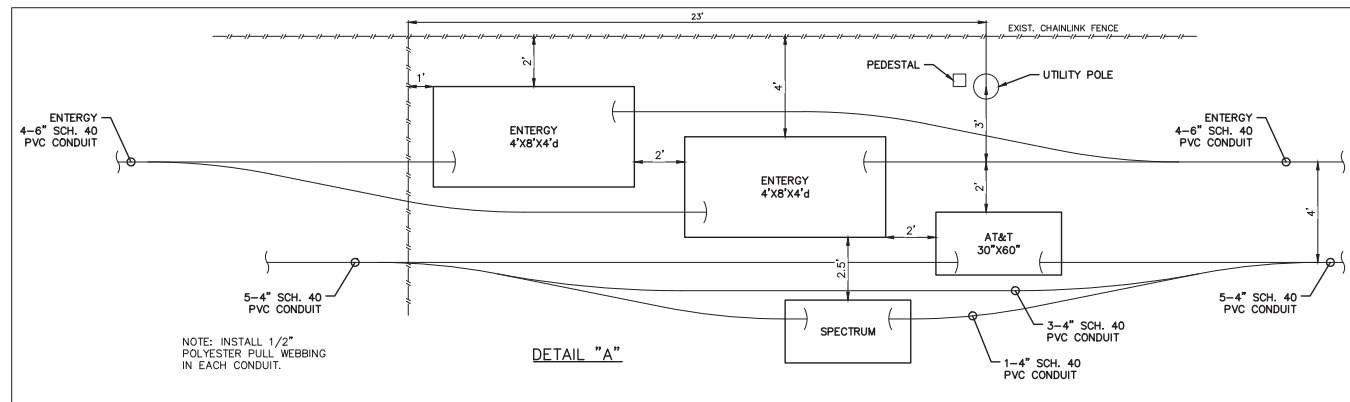


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Port Arthur, Texas 77642
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soutexsurveyors.com

SHEET TITLE
TOPOGRAPHIC SURVEY
& EROSION CONTROL PLAN
PROJECT
RIDER 45 - LAKESHORE DRIVE TURNAROUND
PORT OF PORT ARTHUR
221 HOUSTON AVENUE
PORT ARTHUR, TEXAS 77641

PROJ. NO: 21-0586
SCALE: 1" = 40'
PRINT DATE: 10/17/2022
DRAWN BY: TC, SM
CHECKED BY: JM
APPROVED BY: JM
SHEET **C3**

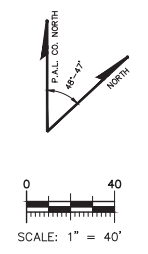
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SUPPORT SERVICES; DISTRIBUTION STANDARDS & ENGINEERING
 TITLE: Pull Boxes, Enclosures
 STANDARD NUMBER: DU01-02, Rev. 15
 EFFECTIVE DATE: November 26, 2007

STOCK NUMBER	MATERIAL DESCRIPTION	MANUFACTURER	CATALOG NUMBER	ILLUSTRATION
EN017478 REPLACES AR114-246 *LP331-7253 *PS331-7253 *MP353-3692 *CSPQPFDB *EN017579 *000114-247	Box, Junction Pull, 30Wx60Lx48H, with bottom Additional information: (FOR USE WITH PRIMARY CABLE & LARGER ONLY) Fiberglass with permanent bottom, to be furnished w/out knockout holes, w/ two piece, penta head bolted cover, cover to be rated at 16,000lbs Designed for A-16 loading as per ASTM C857-87. Lid bolt down material to consist of SS captive recessed pentahead bolts. Assembly shall be supplied with two 30" long galvanized cable racks and adjustable 10" cable hooks as per ANSI C135.35 figure 7. Assembly to be supplied without vents so it can be water proofed. To be furnished with two - 2" pulling eyes, pulling eyes to be rated at 1000lbs Logo should read <u>Entergy Electric</u> or <u>Electric</u> , to be cast in cover. Shall comply with Entergy's Specification DU01-04, Latest Revision	Amorcast CDR Newbasis	A6001460TAX48B PA14-3000-40WD-0217 FCA306048-ENERGY	
EN017580 REPLACES AR-(None) LP-(None) PS-(None) MP-(None) CSPQPFDB	Box, Junction Pull, 48Wx96Lx48H, with bottom Additional information: (FOR USE WITH 500 - PRIMARY CABLE & LARGER ONLY) Fiberglass with permanent bottom, to be furnished w/out knockouts holes, w/ four piece, penta head bolted cover, cover to be rated at 16,000lbs. Designed for A-16 loading as per ASTM C857-87. Lid bolt down material to consist of SS captive recessed pentahead bolts. Assembly shall be supplied with two 30" long galvanized cable racks and adjustable 10" cable hooks as per ANSI C135.35 figure 7. Assembly to be supplied without vents so it can be water proofed. To be furnished with four - 2" pulling eyes, pulling eyes to be rated at 2000lbs. Logo should read <u>Entergy Electric</u> or <u>Electric</u> , to be cast in cover. Shall comply with Entergy's Specification DU01-04, Latest Revision	Amorcast CDR Newbasis	A6004896TAFENT2 PA12-4896-48B-0525 FCA489648-ENERGY2	

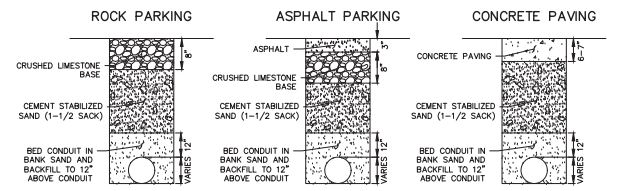
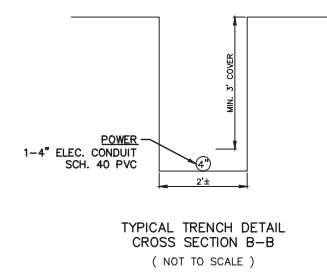
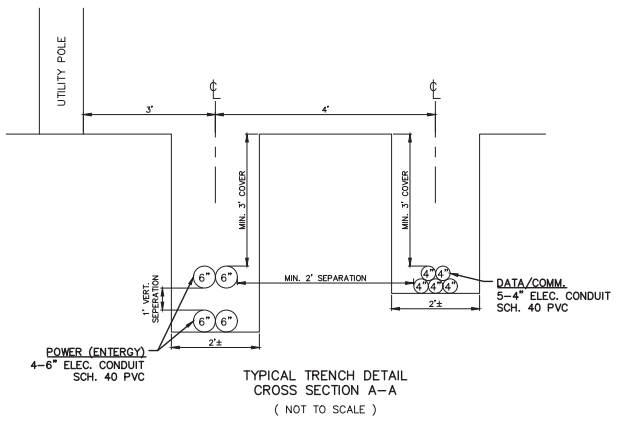
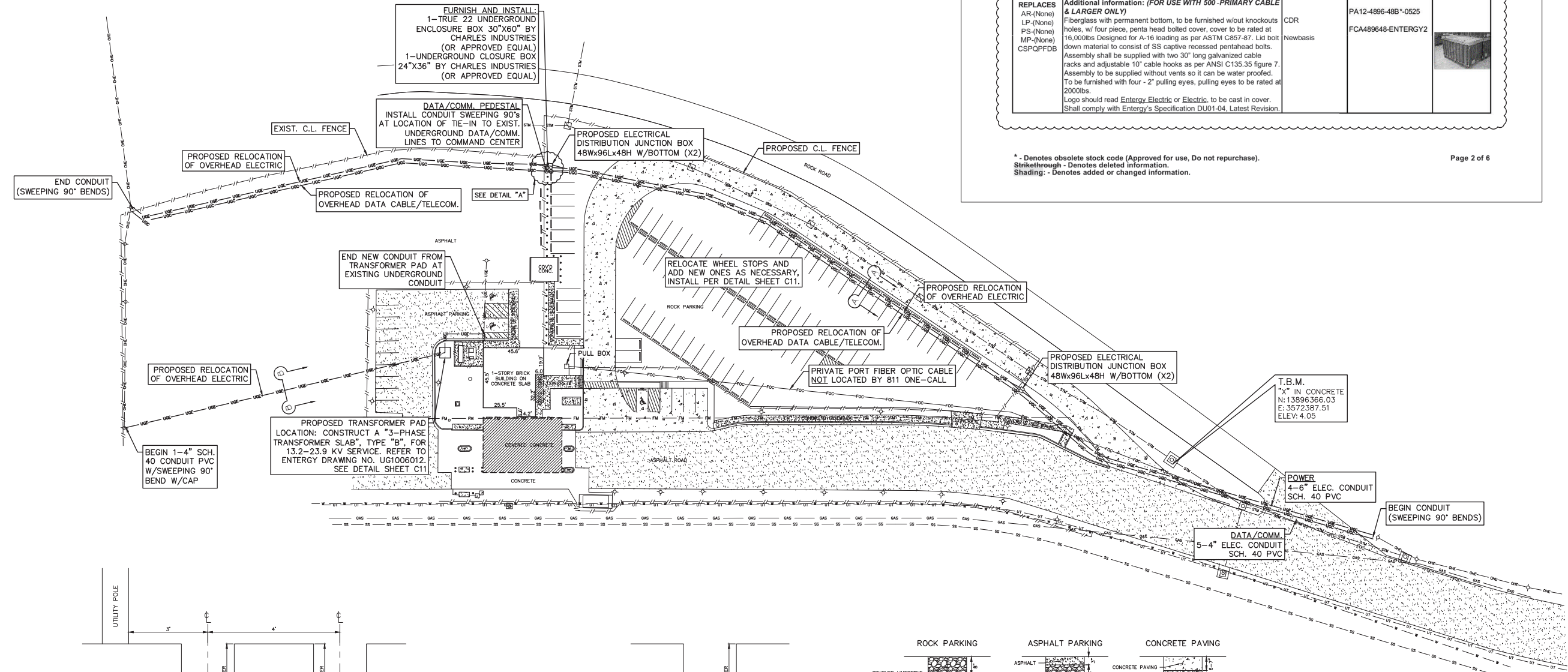
* - Denotes obsolete stock code (Approved for use, Do not repurchase).
 Strikethrough - Denotes deleted information.
 Shading - Denotes added or changed information.



LEGEND

UNDERGROUND ELECTRIC	U-E
UNDERGROUND DATA/COMM.	U-C
UNDERGROUND PHONE LINE	U-P
OVERHEAD ELECTRIC	O-E
FIBER OPTIC CABLE	F-O-C
SANITARY SEWER	SS
WATER LINE	W
STORM SEWER	STM
CHAINLINK SECURITY FENCE	CL

O.P.R.J.C. = OFFICIAL RECORDS JEFFERSON COUNTY
 D.R.J.C. = DEED RECORDS JEFFERSON COUNTY
 ○ = POWER POLE
 ✕ = LIGHT POLE
 ♿ = HANDICAP PARKING



FOR PERMITTING & CONSTRUCTION

STATE OF TEXAS
 JEREMY J. MITCHELL
 116941
 LICENSED PROFESSIONAL ENGINEER
 10/17/2022

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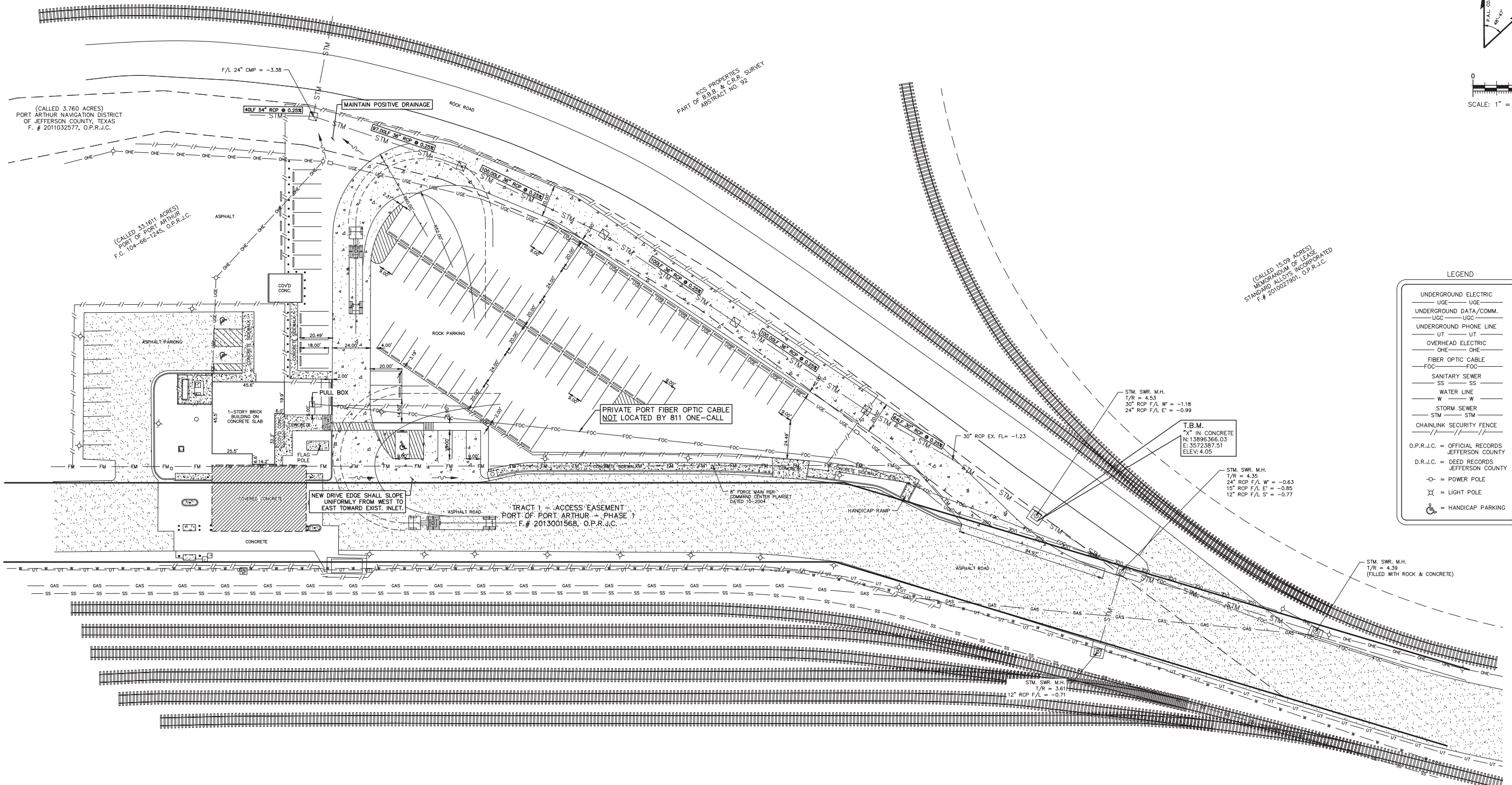
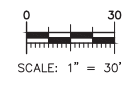
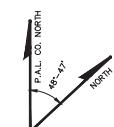
SOUTEX
 SURVEYORS & ENGINEERS

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 Port Arthur, Texas 77642
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PROJECT	RIDER 45 - LAKESHORE DRIVE TURNAROUND PORT OF PORT ARTHUR 221 HOUSTON AVENUE PORT ARTHUR, TEXAS 77641
SHEET TITLE	OVERHEAD UTILITIES RELOCATION EXHIBIT
PROJ. NO:	21-0586
SCALE:	1" = 40'
PRINT DATE:	10/17/2022
DRAWN BY:	NJ
CHECKED BY:	JM
APPROVED BY:	JM
SHEET	C4

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LEGEND

UNDERGROUND ELECTRIC	UGE
UNDERGROUND DATA/COMM.	UGC
UNDERGROUND PHONE LINE	UT
OVERHEAD ELECTRIC	OHE
FIBER OPTIC CABLE	FOC
SANITARY SEWER	SS
WATER LINE	W
STORM SEWER	STM
CHAINLINK SECURITY FENCE	
O.P.R.J.C. = OFFICIAL RECORDS	JEFFERSON COUNTY
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⊙	= POWER POLE
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(CALLED 3,760 ACRES)
PORT ARTHUR NAVIGATION DISTRICT
OF JEFFERSON COUNTY, TEXAS
F. # 2011032577, O.P.R.J.C.

(CALLED 33,161 ACRES)
PORT OF PORT ARTHUR
F.C. 104-66-1245, O.P.R.J.C.

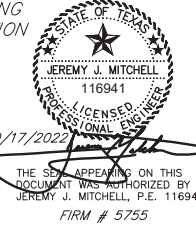
KCS PROPERTIES
B.B. & C.R.S. SURVEY
ABSTRACT NO. 92

(CALLED 15.09 ACRES)
MEMORANDUM OF LEASE
STANDARD ALLOTS INCORPORATED
F. # 201002901, O.P.R.J.C.

TRACT 1 - ACCESS EASEMENT
PORT OF PORT ARTHUR - PHASE 1
F. # 2013001568, O.P.R.J.C.

(CALLED 7,852 ACRES)
PORT OF PORT ARTHUR
NAVIGATION DISTRICT OF
JEFFERSON COUNTY, TEXAS
VOL. 1443, PG. 23, O.P.R.J.C.

FOR PERMITTING
& CONSTRUCTION



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FIRM # 5755



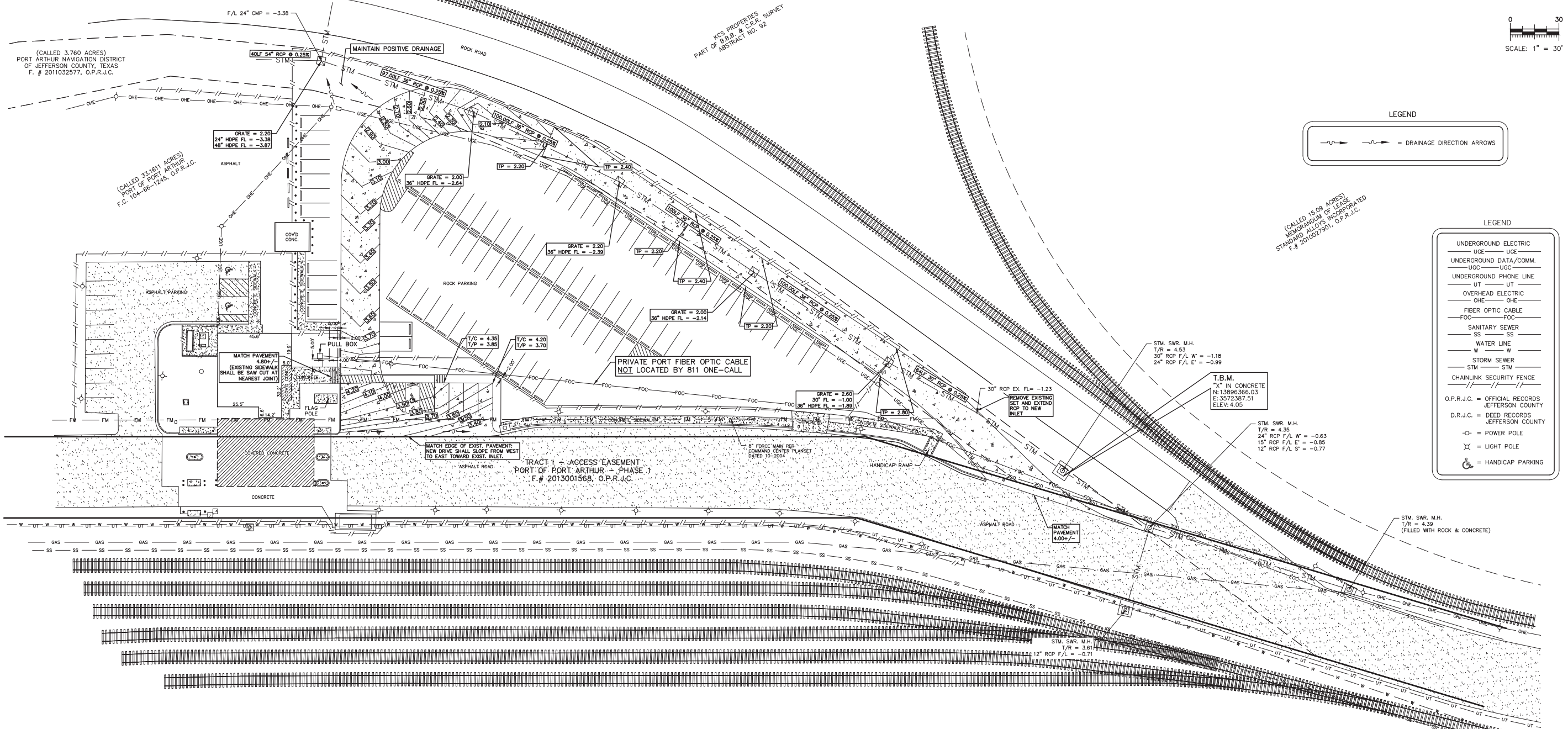
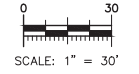
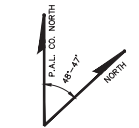
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SHEET TITLE	PROJECT
SITE PLAN	RIDER 45 - LAKESHORE DRIVE TURNAROUND PORT OF PORT ARTHUR 221 HOUSTON AVENUE PORT ARTHUR, TEXAS 77641

PROJ. NO: 21-0586
SCALE: 1" = 30'
PRINT DATE: 10/17/2022
DRAWN BY: TC
CHECKED BY: JM
APPROVED BY: JM
SHEET

C5

\\SOUTEX\SoutexServer\Drawn\Turnaround\Drawn\2021\31-0586_PopA_Rider_P1_Turnaround\DWG\31-0586_Chill.dwg Oct 17, 2022 - 12:53pm Nathan Jordan



LEGEND



LEGEND

- UNDERGROUND ELECTRIC — UGE
- UNDERGROUND DATA/COMM. — UGC
- UNDERGROUND PHONE LINE — UT
- OVERHEAD ELECTRIC — OHE
- FIBER OPTIC CABLE — FOC
- SANITARY SEWER — SS
- WATER LINE — W
- STORM SEWER — STM
- CHAINLINK SECURITY FENCE
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(CALLED 3,760 ACRES)
PORT ARTHUR NAVIGATION DISTRICT
OF JEFFERSON COUNTY, TEXAS
F. # 2011032577, O.P.R.J.C.

(CALLED 33,161 ACRES)
PORT OF PORT ARTHUR
F.C. 104-66-1245, O.P.R.J.C.

KCS PROPERTIES
PART OF B.B.B. & C.R.P. SURVEY
ABSTRACT NO. 92

(CALLED 15.09 ACRES)
MEMORANDUM OF LEASE
STANDARD ALLOTS INCORPORATED
F. # 201002901, O.P.R.J.C.

TRACT 1 - ACCESS EASEMENT
PORT OF PORT ARTHUR - PHASE 1
F. # 2013001568, O.P.R.J.C.

(CALLED 7,853 ACRES)
PORT OF PORT ARTHUR
NAVIGATION DISTRICT OF
JEFFERSON COUNTY, TEXAS
VOL. 1443, PG. 23, O.P.R.J.C.

FOR PERMITTING
& CONSTRUCTION



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY
JEREMY J. MITCHELL, P.E. 116941
FIRM # 5755



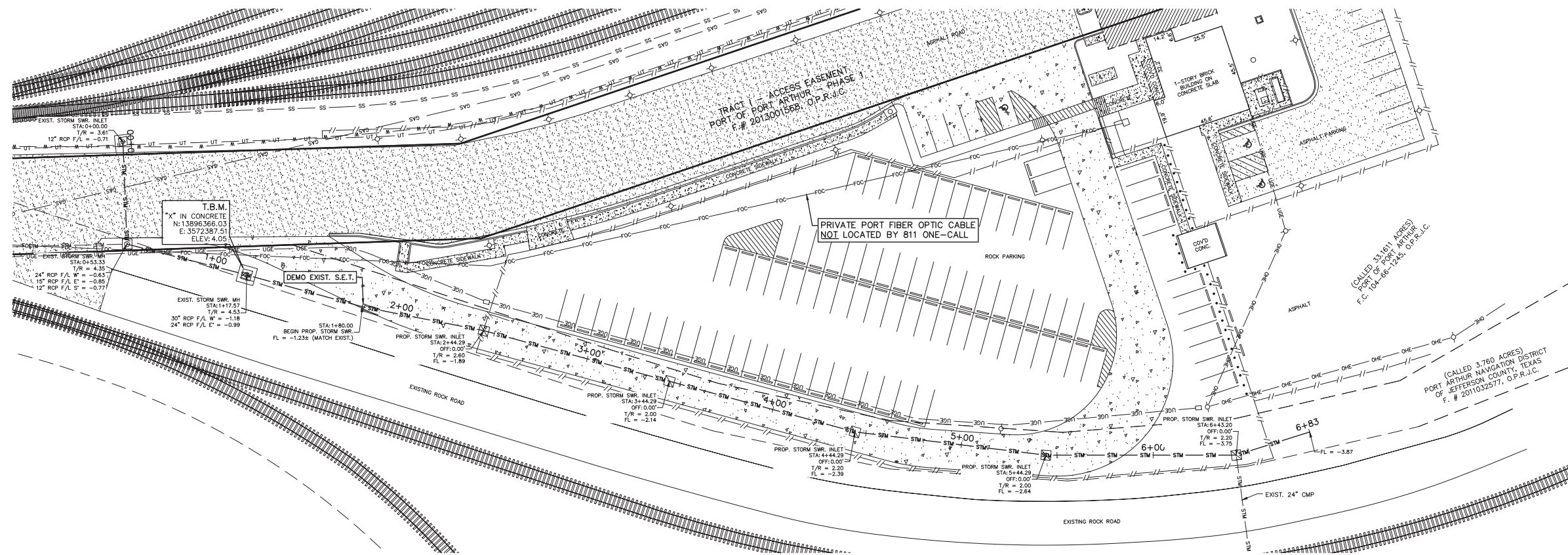
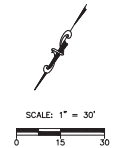
T.B.P.E. FIRM #5755 • T.X.L.S. FIRM #10123800

3737 Doctors Drive
Port Arthur, Texas 77642
Tel. 409.983.2004
Fax 409.983.2005
soutexsurveyors.com

SHEET TITLE	PROJ. NO: 21-0586
GRADING PLAN	SCALE: 1" = 30'
PROJECT	PRINT DATE: 10/17/2022
RIDER 45 - LAKESHORE DRIVE TURNAROUND	DRAWN BY: TC
PORT OF PORT ARTHUR	CHECKED BY: JM
221 HOUSTON AVENUE	APPROVED BY: JM
PORT ARTHUR, TEXAS 77641	

SHEET C6

S:\SOUTEX\SURVEYS\DATA\21\0586\PORT ARTHUR RIDER 45\2021\10-17-2022-12:53pm NathanJordan



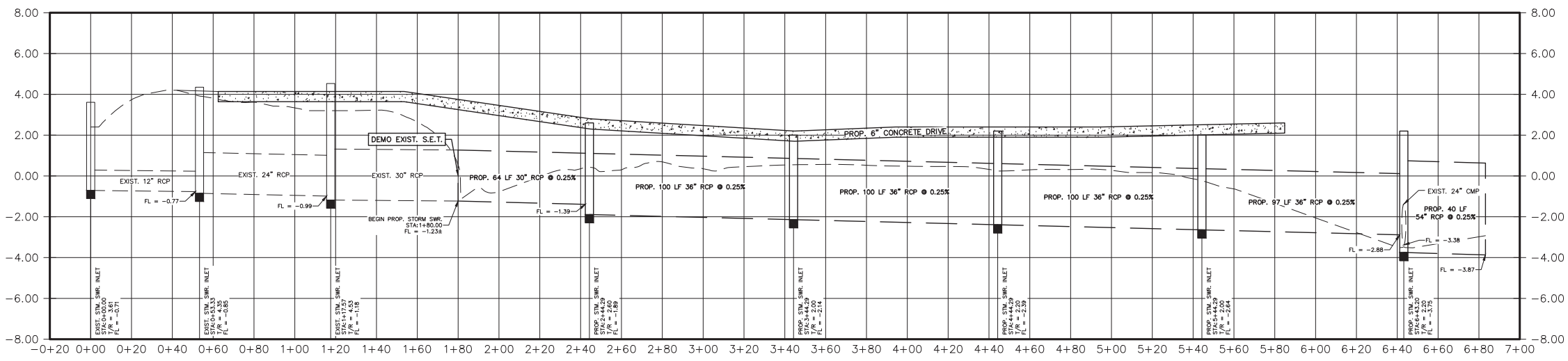
LEGEND

- UNDERGROUND ELECTRIC
 - UGE — UGE
- UNDERGROUND DATA/COMM.
 - UGC — UGC
- UNDERGROUND PHONE LINE
 - UT — UT
- OVERHEAD ELECTRIC
 - OHE — OHE
- FIBER OPTIC CABLE
 - FOC — FOC
- SANITARY SEWER
 - SS — SS
- WATER LINE
 - W — W
- STORM SEWER
 - STM — STM
- CHAINLINK SECURITY FENCE

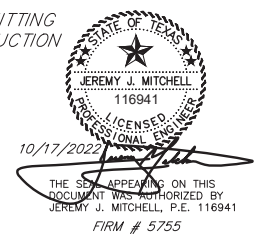
O.P.R.I.C. = OFFICIAL RECORDS
JEFFERSON COUNTY

D.R.I.C. = DEED RECORDS
JEFFERSON COUNTY

- ⊙ = POWER POLE
- ⊗ = LIGHT POLE
- ♿ = HANDICAP PARKING



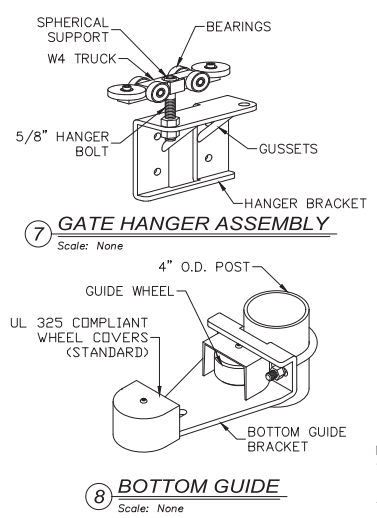
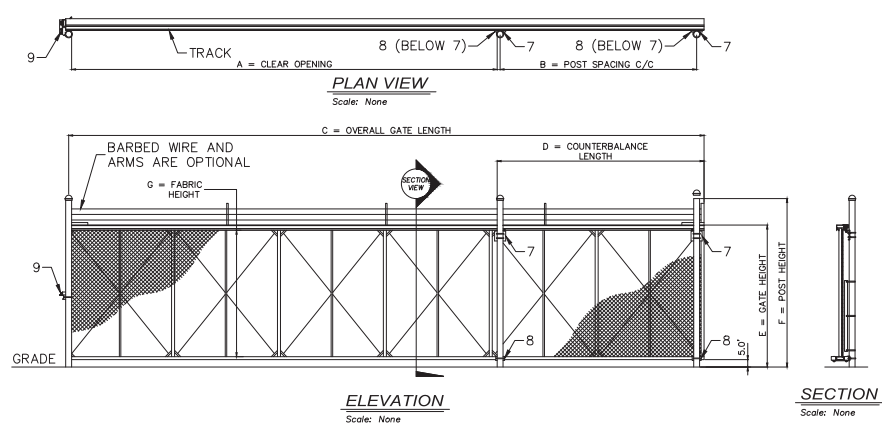
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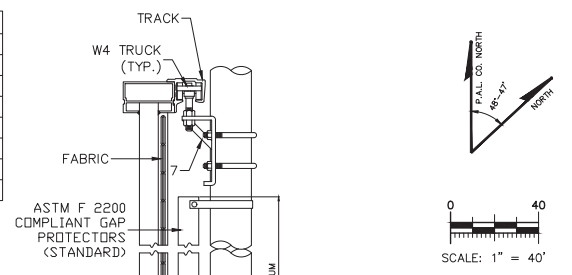
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SHEET TITLE	PROJ. NO: 21-0586
STORM SEWER PLAN & PROFILE	SCALE: 1" = 30'
PROJECT	PRINT DATE: 10/17/2022
RIDER 45 - LAKESHORE DRIVE TURNAROUND PORT OF PORT ARTHUR 221 HOUSTON AVENUE PORT ARTHUR, TEXAS 77641	DRAWN BY: TC CHECKED BY: JM APPROVED BY: JM
	SHEET C7

SOUTEX Surveyors & Engineers, Inc. 3737 Doctors Drive, Port Arthur, Texas 77642. Tel: 409.983.2004. Fax: 409.983.2005. www.soutexsurveyors.com. License No. 116941. State of Texas. 10/17/2022. 11:53am Nathan Jordan



CRITICAL DIMENSION CHART			
MARK	DESCRIPTION	FORMULA	DIM.
A	CLEAR OPENING	A	-
B	COUNTERBALANCE POST SPACING C/C	(A/2)-11"	-
C	OVERALL GATE LENGTH	A x 1.5	-
D	COUNTERBALANCE LENGTH	A x 0.5	-
E	NOMINAL GATE HEIGHT	E	-
F	POST HEIGHT (W BARB ARMS)	E + 1'-6"	-
G	FABRIC HEIGHT	E - 1'-0"	-



HEAVY DUTY CANTILEVER SLIDE GATE

NOTES:
 1. ALL FITTINGS STANDARDLY PROVIDED FOR 4" O.D. POSTS. OTHER SIZES AVAILABLE UPON REQUEST.
 2. BARB ARMS (FOR BARBED WIRE) OPTIONAL.

LEGEND

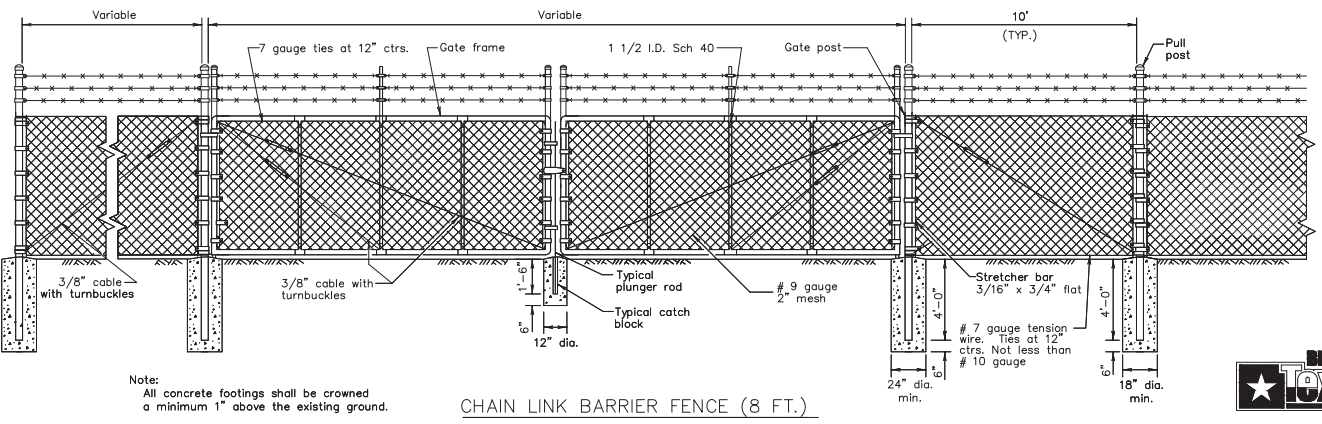
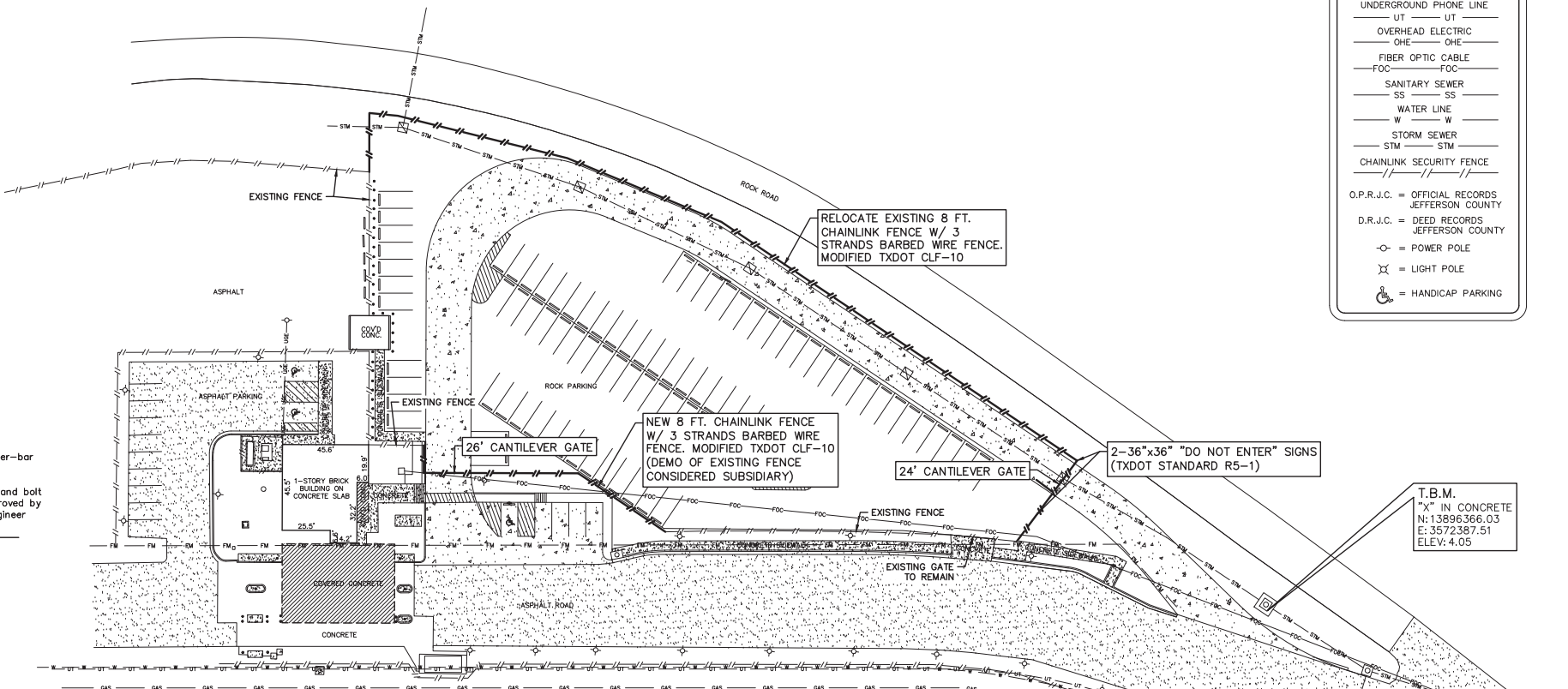
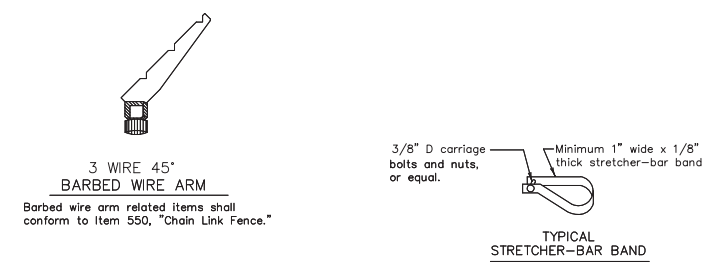
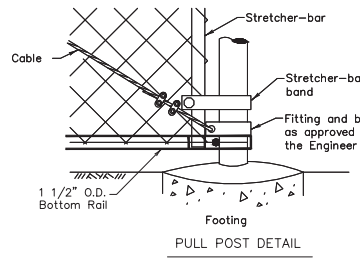
— UGE —	UNDERGROUND ELECTRIC
— UGC —	UNDERGROUND DATA/COMM.
— UT —	UNDERGROUND PHONE LINE
— OHE —	OVERHEAD ELECTRIC
— FOC —	FIBER OPTIC CABLE
— SS —	SANITARY SEWER
— W —	WATER LINE
— STM —	STORM SEWER
— CHAINLINK SECURITY FENCE —	CHAINLINK SECURITY FENCE

O.P.R.J.C. = OFFICIAL RECORDS JEFFERSON COUNTY
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 ⊕ = POWER POLE
 ⊙ = LIGHT POLE
 ♿ = HANDICAP PARKING

GENERAL NOTES

- Items hereon shall conform to Item 550, "Chain Link Fence."
- Typical installation plan may vary as shown elsewhere on the plans or as directed by the Engineer. Location of gates shown elsewhere on plans.
- Gate-frame members shall be welded at frame corners.
- All cable connections are to be made with two 3/8" cable clamps.
- One end of each turnbuckle may be attached directly to fittings with a clevis.
- Concrete footings are to be crowned at the top to shed water.
- Steel chain link fabric: 1 in. mesh, 9 gauge, top selvage twist, bottom selvage knuckle, class 1 zinc coating (1.2 oz/sf) per ASTM A392.
- Round steel pipe and rail-hot dipped galvanized per ASTM F1083
 A. End, Corner, Pull Post: 2.875" min. O.D., Sch 40
 B. Line Post: 2.375" min. O.D., Sch 40
 C. Gate Post: 8" Sch 40
 D. Top, Brace, Bottom, and Intermediate Rail: 1.660" min. O.D., Sch 40
- Metallic Coated Steel Tension Wire: 7 gauge, type II zinc-coated, class 4 - 1.2 oz/sf
- Metallic Coated Steel Barbed Wire: double 12.5 gauge twisted strand wire, 4 point 12.5 gauge round barbs spaced 5 inches on center, class III zinc coated (domestic)
- Tension and brace brands, terminal post caps, truss rods, tension bars, barbed wire arms, tie wire and hog rings shall have a minimum zinc coating of 1.2 oz/sf.
- Concrete for footing shall have a 28 day compressive strength of 3,000 PSI.
- For cantilever gates see Heavy Duty Cantilever Slide Gate detail.

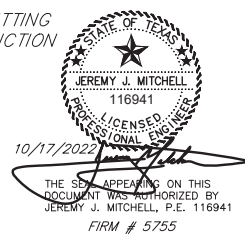
CHAIN LINK FENCE DETAILS
 TxDOT CLF-10
 (MODIFIED)



Note:
 All concrete footings shall be crowned a minimum 1" above the existing ground.

CHAIN LINK BARRIER FENCE (8 FT.)

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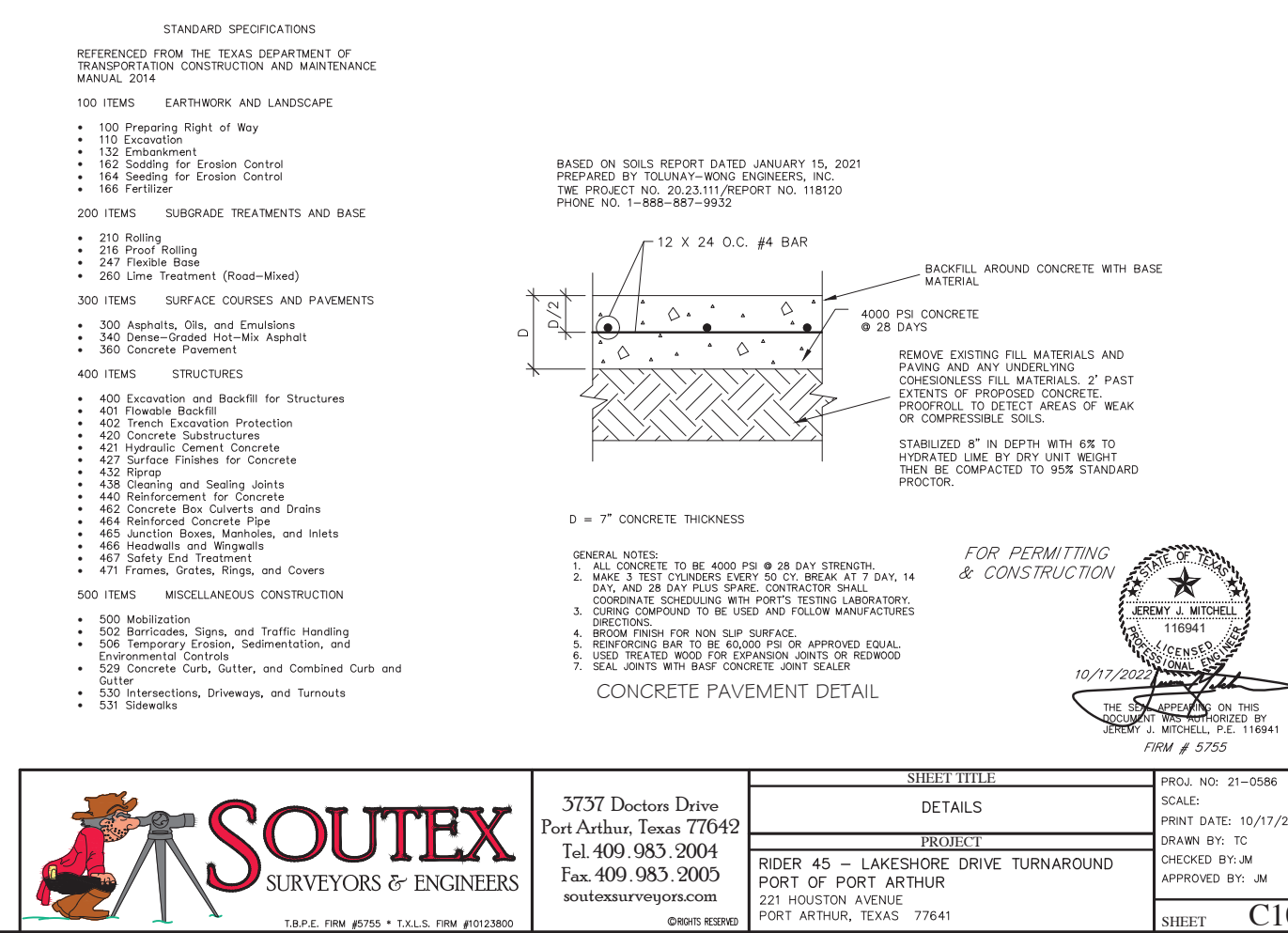
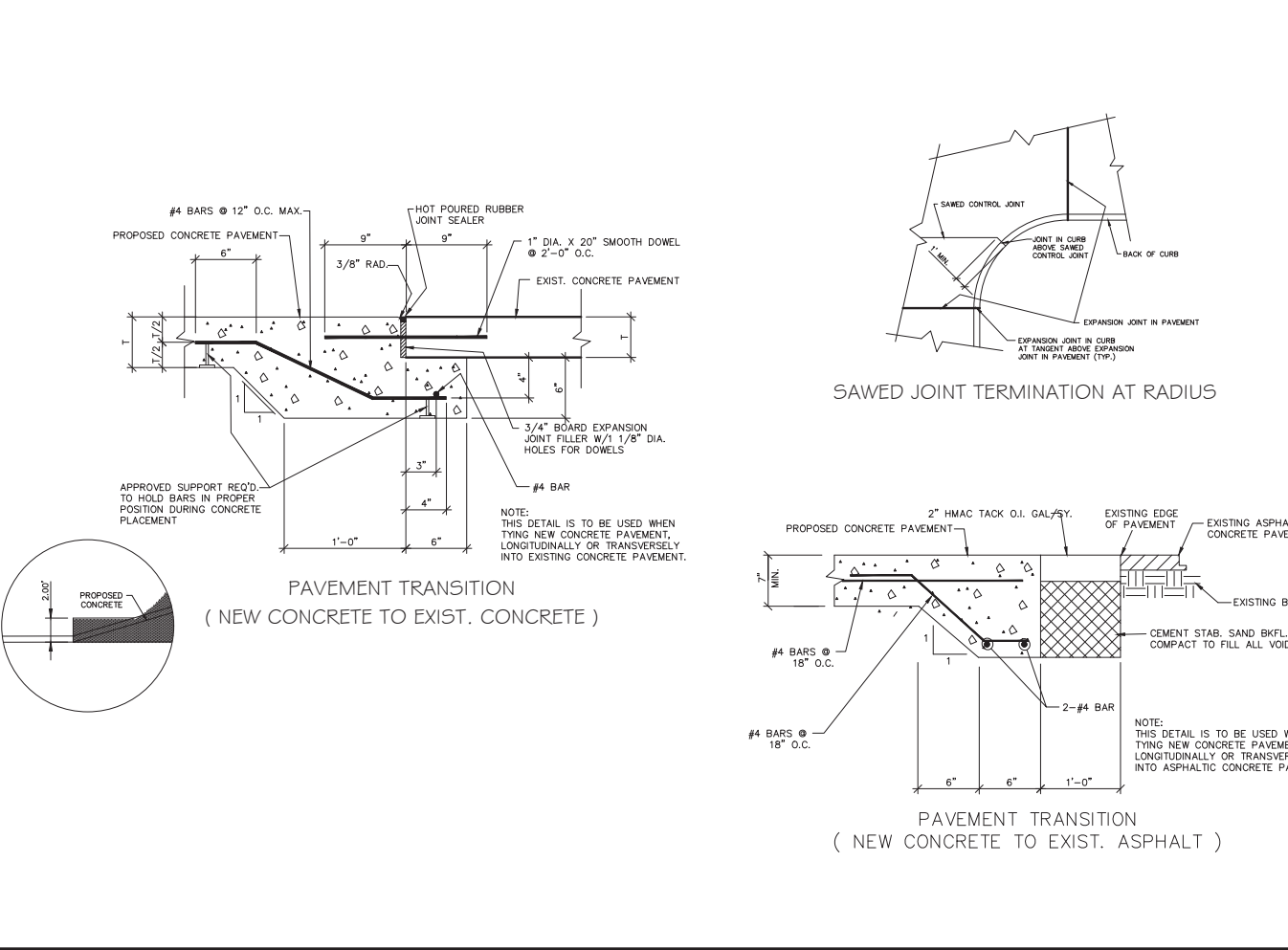
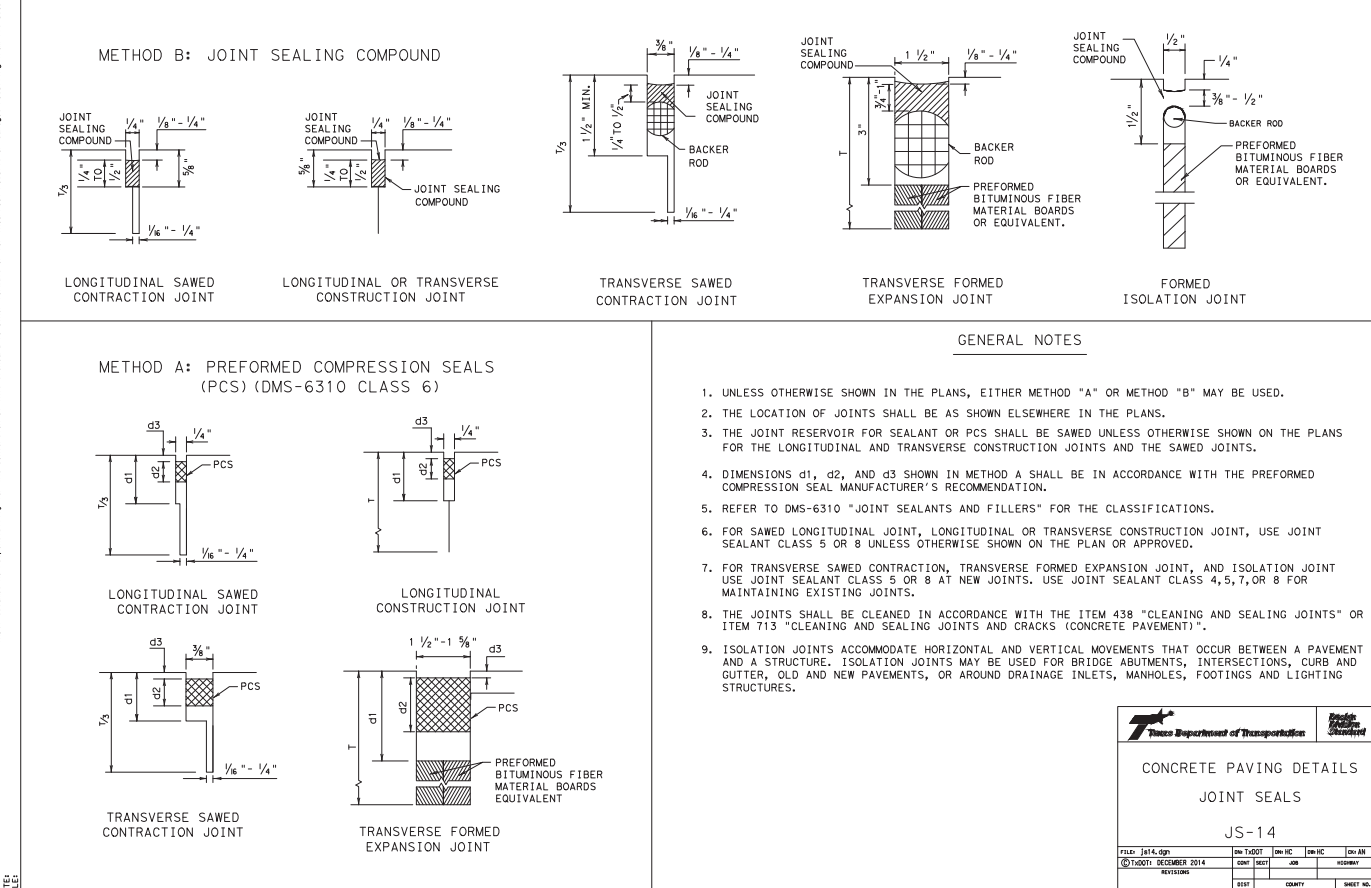
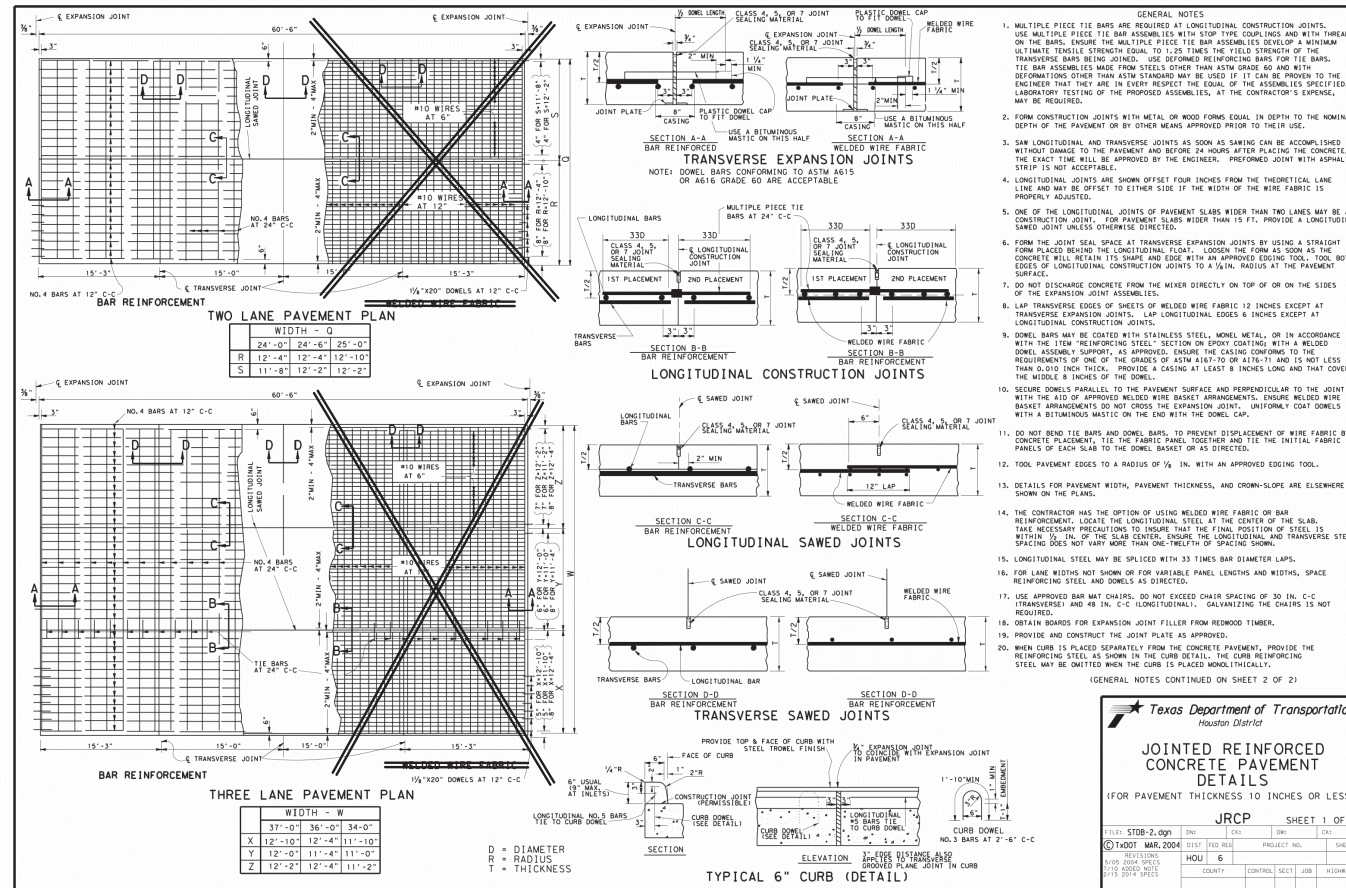
SOUTEX
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SHEET TITLE	
CHAIN LINK FENCE EXHIBIT	
PROJECT	
RIDER 45 - LAKESHORE DRIVE TURNAROUND PORT OF PORT ARTHUR 221 HOUSTON AVENUE PORT ARTHUR, TEXAS 77641	

PROJ. NO: 21-0586	SCALE: 1" = 40'
PRINT DATE: 10/17/2022	DRAWN BY: NJ
CHECKED BY: JM	APPROVED BY: JM
SHEET C9	

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SOUTEX SURVEYORS & ENGINEERS

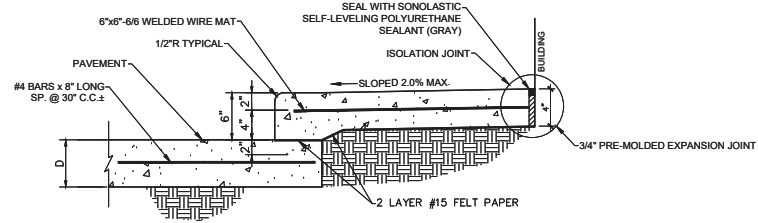
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Tel. 409.983.2004
Fax 409.983.2005
soutexsurveyors.com

SHEET TITLE
DETAILS
PROJECT
RIDER 45 - LAKESHORE DRIVE TURNAROUND
PORT OF PORT ARTHUR
221 HOUSTON AVENUE
PORT ARTHUR, TEXAS 77641

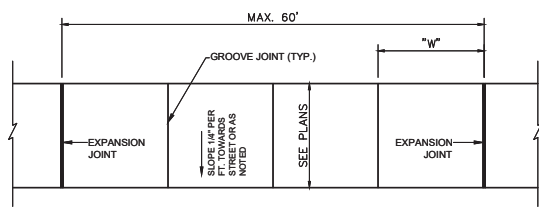
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SCALE:
PRINT DATE: 10/17/2022
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SHEET **C10**

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CURB TO SIDEWALK DETAIL



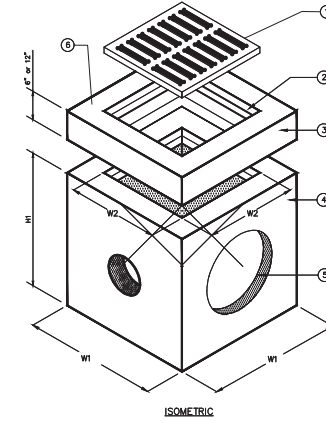
SLAB STRUCTURE WITH SUPPORT (PILES)

150-500 KVA (TYPE "D")												
VOLTAGE	A	B	C	D	E	F	G	S	BAR 1	BAR 2	BAR 3	BAR 4
QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.
13.2-23.9kv	84"	80"	34"	26"	18"	8"	12"	17"	1	2	3	4
34.5kv	100"	88"	50"	27"	24"	8"	12"	20"	1	2	3	4

750-2500 KVA (TYPE "A")												
VOLTAGE	A	B	C	D	E	F	G	S	BAR 1	BAR 2	BAR 3	BAR 4
QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.
13.2-23.9kv	104"	110"	37"	27"	18"	8"	12"	21"	1	2	3	4
34.5kv	104"	112"	50"	29"	24"	8"	12"	20"	1	2	3	4

- CONCRETE SHALL HAVE 3500 PSI MINIMUM 28 DAY COMPRESSIVE BREAKING STRENGTH.
- REINFORCEMENT SHALL BE DEFORMED BARS MEETING ASTM A615, GRADE 60 REQUIREMENTS.
- FOR BAR 1 PLACE ONE BAR ON NARROW SIDE OF OPENING, EVENLY SPACING REMAINING BARS ON WIDE SIDE OF OPENING.
- FOR BAR 2, BAR 3, AND BAR 4, EVENLY SPACE HALF OF THE BARS ON EACH SIDE OF THE OPENING.
- ACCEPTABLE PILES MAY CONSIST OF BAR REINFORCED CONCRETE, REINFORCED CONCRETE FILLED GALVANIZED PIPE OR FOR TYPE A, CLASS B, TREATED TIMBER PILES, FOR TYPE B, 6" DIAMETER TREATED WOOD PILES.
- REQUIRED PILE LENGTH WILL DEPEND ON LOCAL SOIL CONDITIONS AND BUILDING PRACTICES, BUT SHALL NOT BE LESS THAN 36" LONG. A SOIL ANALYSIS MAY BE REQUIRED IF SPECIFIED BY ENTERGY'S REPRESENTATIVE. PILE LENGTHS NEED ENTERGY'S REPRESENTATIVE APPROVAL BEFORE INSTALLATION.
- SLAB USED FOR BOTH RADIAL AND LOOP FEED TRANSFORMERS.

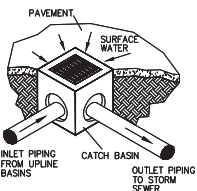
ENTERGY SERVICES INC.
3-PHASE TRANSFORMER SLAB STRUCTURE (WITH PILING)
 APPROVED BY: JRH DATE: 9/2/99
 CHECKED BY: WGS SCALE: N.T.S.
 DRAWN BY: DAT
 No. UG1006012
 PLOT 1=2 Sh. 2 of 5



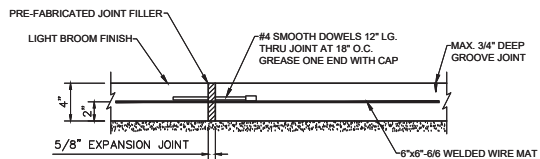
ISOMETRIC

MARK	QTY.	DESCRIPTION
1	1	GRATE OR COVER AS REQUESTED, SEE OPTIONS
2	1	CAST-IN STEEL FRAME
3	1	OPTIONAL TOP EXTENSION 6" TO 18"
4	1	PRECAST CONCRETE BASIN SECTION
5	4	KNOCKOUTS (STO) AND PENETRATIONS (OPT) AS REQUIRED, SEE TO DIMENSION FOR MAXIMUM PENETRATIONS
6	1	DATE MANUFACTURED

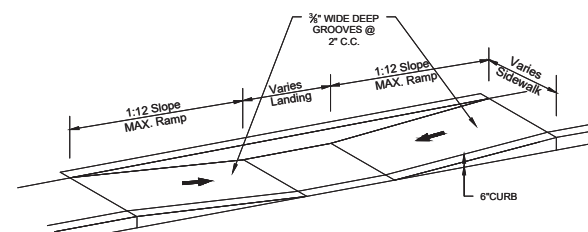
MODEL	W1	W2	H1	H2	T1	T2	GRATE SIZE	OPEN AREA	WEIGHT LBS
CB-12	15"	10"	21"	18"	3"	2"	10"	12"x12"x1"	90
CB-14	20"	12"	28"	24"	4"	4"	12"	14"x14"x1"	120
CB-18	24"	16"	34"	30"	4"	4"	18"	18"x18"x1"	168
CB-20	28"	18"	34"	30"	4"	4"	17"	20"x20"x1"	170
CB-24	32"	22"	41"	36"	5"	5"	22"	24"x24"x2"	268
CB-27	37"	25"	42"	38"	6"	6"	24"	27"x27"x2"	300
CB-30	42"	30"	42"	38"	6"	6"	30"	32"x32"x2"	490
CB-36	48"	36"	42"	38"	6"	6"	33"	36"x36"x2"	693
CB-48	60"	48"	54"	48"	6"	6"	48"	36"x36"x2"	693
CB-60	72"	60"	66"	60"	6"	6"	60"	36"x36"x2"	693
CB-72	84"	72"	78"	72"	6"	6"	72"	36"x36"x2"	693
CB-84	96"	84"	78"	72"	6"	6"	72"	36"x36"x2"	693



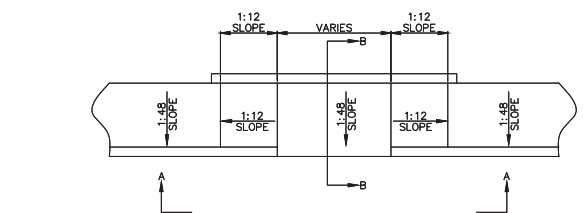
PAVEMENT



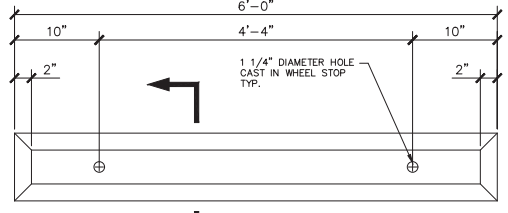
SIDEWALK DETAIL



PARALLEL CURB RAMP

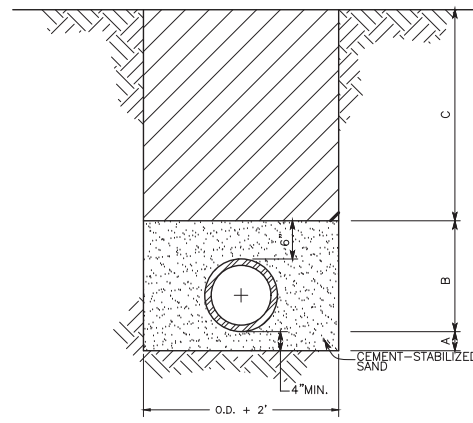


AA. PARALLEL CURB RAMP DETAIL



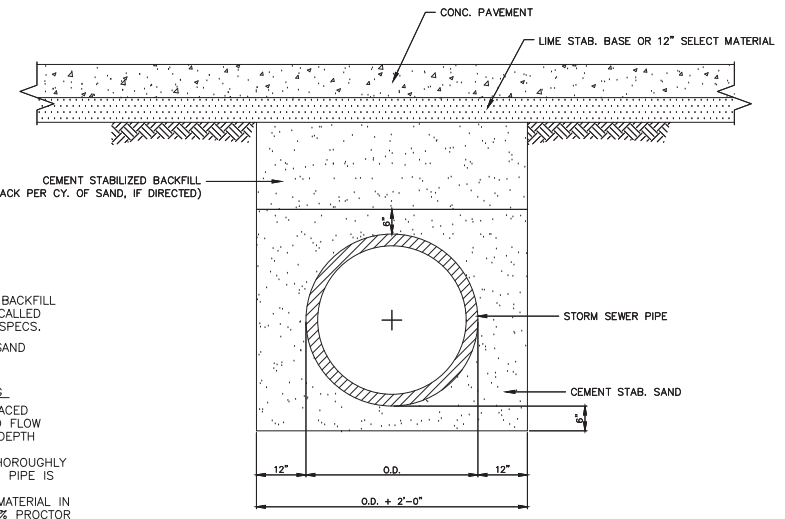
- NOTE: WHEEL STOP TO BE CAST WITH 6 SACK 6000 PSI CONCRETE
- 2-#4 CONT. W/ #3 TIES @ 12" O.C. MAX.
 - 5/8" x 1'-6" LG. REBAR DRIVEN INTO 5/8" HOLE DRILLED IN CONCRETE PAVING

PRECAST CONCRETE WHEEL STOPS
NOT TO SCALE



CLASS "A" BEDDING
(FOR USE WITH STORM SEWER PIPE)

- NOTE
- USE FOR ALL STORM SEWERS.
 - USE CEMENT-STABILIZED SAND PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE OR MINIMUM DEPTH OF 4".
- COMPACT CEMENT-STABILIZED SAND TO 90% PROCTOR DENSITY
- NOTES FOR CLASS "A" BEDDING
- A - CEMENT-STABILIZED SAND PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE OR MINIMUM DEPTH OF 4".
 - B - CEMENT-STABILIZED SAND, THOROUGHLY COMPACTED IN PLACE AFTER PIPE IS LAID.
 - C - SELECT FILL OR EXCAVATED MATERIAL IN 8" LIFTS COMPACTED TO 95% PROCTOR PLACED NEXT DAY (OR LATER) AFTER PIPE IS LAID.



TYPICAL STORM SEWER BACKFILL UNDER PAVEMENT

N.T.S.

FOR PERMITTING & CONSTRUCTION

STATE OF TEXAS
 JEREMY MITCHELL
 116941
 LICENSED PROFESSIONAL ENGINEER

10/17/2022

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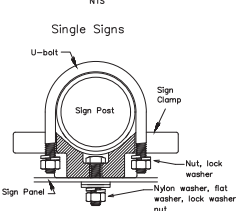
SHEET TITLE
DETAILS

PROJECT
RIDER 45 - LAKESHORE DRIVE TURNAROUND
PORT OF PORT ARTHUR
221 HOUSTON AVENUE
PORT ARTHUR, TEXAS 77641

PROJ. NO: 21-0586
 SCALE:
 PRINT DATE: 10/17/2022
 DRAWN BY: TC
 CHECKED BY: JM
 APPROVED BY: JM

SHEET **C11**

TYPICAL SIGN ATTACHMENT DETAIL
N.T.S.



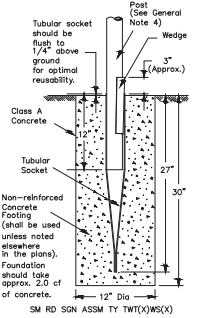
Boils used to mount sign panels to the clamp are 5/16-18 UNC galvanized square head with nut, nylon washer, flat washer and lock washer. The bolt length is 1 inch for aluminum.

When two sign clamps are used to mount signs back-to-back, use a 5/16-18 UNC galvanized hex head per ASTM A307 with nut and helical-spring lock washer. The approximate bolt lengths for various post sizes and sign clamp types are given in the table at right. The bolt length may need to be adjusted depending upon field conditions.

Sign clamps may be either the specific size clamp or the universal clamp.

Post Diameter	Approximate Bolt Length	
Specific Clamp	Universal Clamp	
2" nominal	3" or 3 1/2"	
2 1/2" nominal	3 or 3 1/2"	3 1/2 or 4"
3" nominal	3 1/2 or 4"	4 1/2"

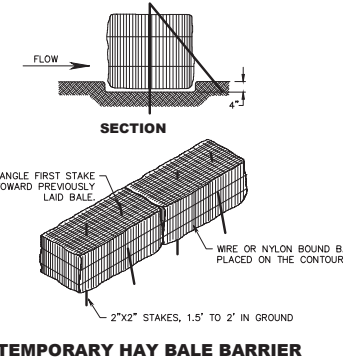
Wedge Anchor Steel System



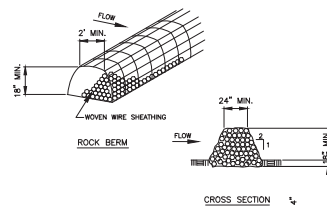
- ANCHOR SYSTEM**
- The Wedge Anchor System and the Universal Anchor System with thin wall tubing post may be used to support up to 10 square feet of sign area.
 - The tubular socket, wedge and prefabricated T-bracket shall be permanently marked to indicate manufacturer. Method, design, and location of marking are subject to the approval of TxDOT Traffic Standards Engineer.
 - Except for posts (13 BWG Tubing), clamps nuts and bolts, all components shall be prequalified.
 - Material used as post with this system shall conform to the following specifications:
 - 13" BWG Tubing (2.375" outside diameter) (TWT), 0.095" nominal wall thickness.
 - Seamless or electric-resistance welded steel tubing. Steel shall be HSLA Gr 55 per ASTM A1011 or ASTM A1008. Other steels may be used if they meet the following:
 - 55,000 PSI minimum yield strength
 - 70,000 PSI minimum yield strength
 - 18% minimum elongation in 2"
 - Wall thickness (uncoated) shall be within the range of .083" to .099". Outside diameter (uncoated) shall be within the range of 2.365" to 2.381"
 - Galvanization per ASTM 123 or ASTM A653 G210. For precoated steel tubing (ASTM A653), recast tube outside diameter weld seam by retinning with zinc wire per ASTM B333.
 - Sign blanks shall be the sizes and shapes shown on the plans.
 - Additional sign clamp required on the "T-bracket" post for 24" high signs. Place clamp at least 3" above bottom of sign when possible.
 - Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.
 - See the Traffic Operations Division website for detailed drawings of sign clamps and Wedge Anchor System components.

- WEDGE ANCHOR SYSTEM INSTALLATION PROCEDURE**
- Dig foundation hole. Where solid rock is encountered at ground level, the foundation shall be a minimum depth of 18". When solid rock is encountered below ground level, the foundation shall extend in the solid rock a minimum depth of 18" or provide a minimum foundation depth of 30". If solid rock is encountered, the socket/sub may be reduced in length as required to a minimum length of 18". Any material removed from the socket/sub shall be from the bottom and the clearance Requirements given on SMD(GEN) must be followed. The inner surfaces of the socket/sub must remain free of concrete or other debris.
 - The Engineer may permit batches of concrete less than 2 cubic yards to be mixed with a portable, motor driven concrete mixer. For small 0.5 cubic yards, hand mixing in a suitable container may be allowed by Engineer. placements less than Place concrete into hole until it is approximately flush with the ground. Concrete shall be Class A.
 - Insert tubular socket into concrete until top of socket is approximately 1/4" above the concrete footing.
 - Plumb the socket. Allow a minimum 4 days for concrete to set, unless otherwise directed by Engineer.
 - Attach the sign to the sign post.
 - Insert the sign post into socket and align sign face with roadway/parking space.
 - Drive the wedge into the socket to secure post. This will leave approximately 3 inches of the wedge exposed.

SIGN INSTALLATION DETAILS
NOT TO SCALE



TEMPORARY HAY BALE BARRIER

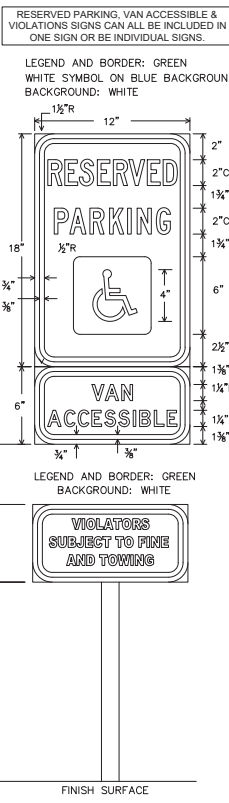


ROCK BERM
N.T.S.

INSTALL AS NECESSARY TO PREVENT WASH OUT OF SILT FENCE.

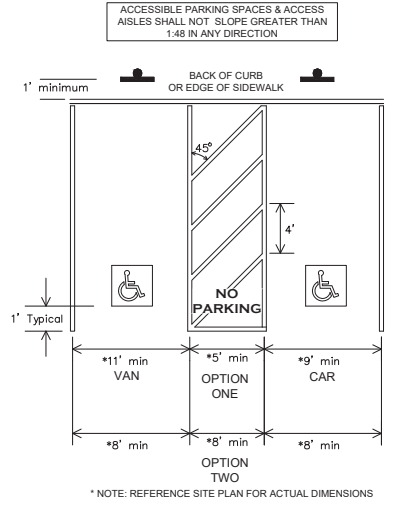
- NOTES:
- USE ONLY OPEN GRADED ROCK (4 to 8") DIAMETER FOR STREAM FLOW CONDITIONS. USE OPEN GRADED ROCK (3 to 5") DIAMETER FOR OTHER CONDITIONS.
 - THE ROCK BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM (1") OPENING AND MINIMUM WIRE DIAMETER OF (20 GAUGE). ROCK BERMS IN CHANNEL APPLICATIONS SHALL BE ANCHORED FIRMLY INTO THE SUBSTRATE.
 - A MINIMUM OF (6") WITH T-POSTS OR WITH (#5 OR #6) REBAR, WITH MAXIMUM SPACING APART OF (48") ON CENTER. THE ROCK BERM SHALL BE INSPECTED WEEKLY OR AFTER EACH RAIN, AND THE STONE AND/OR FABRIC CORE-WOVEN SHEATHING SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED, DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
 - WHEN SILT REACHES A DEPTH EQUAL TO ONE-THIRD THE HEIGHT OF THE BERM OR (6"), WHICHEVER IS LESS, THE SILT SHALL BE REMOVED AND DISPOSED OF ON AN APPROVED SITE AND IN A MANNER THAT WILL NOT CREATE A SILTATION PROBLEM.
 - DAILY INSPECTION SHALL BE MADE ON SEVERE-SERVICE ROCK BERMS; SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES (6").
 - WHEN THE SITE IS COMPLETELY STABILIZED, THE BERM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.
- CONCRETE WASHOUT AREA
- MINIMUM AREA IS 10' x 10' WITH 2" DEPTH.
 - PIT TO BE LINED WITH 10 MIL PLASTIC SHEETING.
 - PROVIDE A SIGN NOTING THE CONCRETE WASHOUT AREA.
 - THE WASHOUT AREA TO BE CLEANED OUT WHEN 75% OF THE CAPACITY IS REACHED.
 - WHEN AREA IS NO LONGER NEEDED THE MATERIAL IS TO BE REMOVED AND HAULED TO A CONCRETE CRUSHING FACILITY OR PERMITTED LANDFILL.

ACCESSIBLE PARKING SIGNAGE
NOT TO SCALE

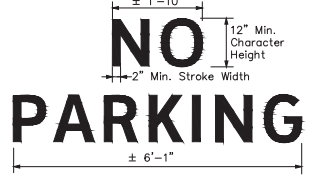


- GENERAL SIGN NOTES:**
- The Alphabets and lateral spacing between letters and numerals shall conform with the "Texas Manual and Uniform Traffic Control Devices for Streets and Highways", latest edition, and any approved changes thereto. Lateral spacing shall provide a balanced appearance.
 - Legend shall be applied by screening process of black and/or transparent colored ink, cut-out black vinyl non-reflective decal sheeting and/or reflective sheeting or combination thereof. Background shall be white reflective sheeting. Signs shall be 0.06" thick aluminum alloy.
- GENERAL PAVEMENT NOTES:**
- All parking space limit lines shall be 4" solid white lines.
 - Allee markings shall be white.
 - Pavement marking symbols (with background):
 - are required
 - should be placed toward the par end of the parking spaces so as to be visible to motorist in the travel lane.
 - may be painted of prefabricated material, and
 - shall be 30" x 30" minimum.
 - With approval of the Engineer, prefabricated pavement marking symbols with background of other dimensions exceeding the 30" x 30" minimum may be used. Alternative designs shall conform to the illustrated colors for background, symbol and border.

ACCESSIBLE PARKING SPACE
NOT TO SCALE



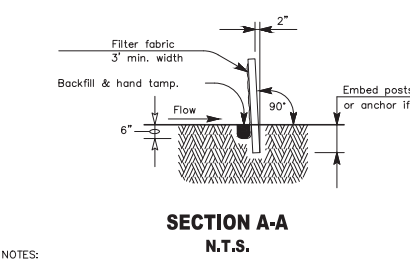
TYPICAL ACCESSIBLE PARKING SPACE DIMENSIONS



ACCESSIBLE PARKING NOTES
NOT TO SCALE

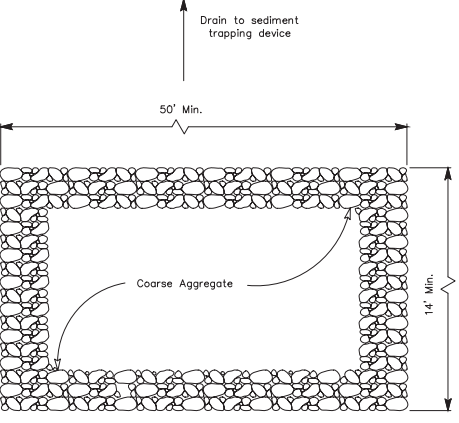
- TEXAS ACCESSIBILITY STANDARDS - CHAPTER 68 ADMINISTRATIVE RULES**
- 608.104 Accessible Parking Spaces
- A paved accessible parking space must include:
 - the International Symbol of Accessibility painted conspicuously on the surface in a color that contrast the pavement.
 - the words "NO PARKING" painted on any access side adjacent to the parking space. The words must be painted:
 - in all capital letters;
 - with a letter height of at least 12" and a stroke width of at least 2"; and
 - centered within each access aisle adjacent to the parking space; and
 - A sign identifying the consequences of parking illegally in a paved accessible parking space. The sign must:
 - at a minimum state "Violators Subject to Fine and Towing" in a letter height of at least 1";
 - be mounted on a pole, post, wall or freestanding board;
 - be no more than 8' below a sign required by Texas Accessibility Standards and
 - be installed so that the bottom edge of the sign is no lower than 48" and no higher than 80" above ground level.
 - A parking space identification sign that complies with Texas Accessibility Standards, 502.6, that includes the requirements in subsection (a)(3)(A) satisfies subsection (a)(3).
- TEXAS ACCESSIBILITY STANDARDS, CHAPTER 502 PARKING SPACES**
- 502.1 General. Car and van parking spaces shall comply with 502. Where parking spaces are marked with lines, width measurements of parking spaces and access aisles shall be made from the centerline of the markings.
- Exception: Where parking spaces or access aisles are not adjacent to another parking space or access aisle, measurements shall be permitted to include the full width of the line defining the parking space or access aisle.
- 502.2 Vehicle Spaces. Car parking spaces shall be 96" wide minimum and van parking spaces shall be 132" wide minimum, shall be marked to define width, and shall have an adjacent access aisle complying with 502.3.
- Exception: Van parking spaces shall be permitted to be 96" wide minimum where the access aisle is 96" wide minimum.
- 502.3 Access Aisle. Access aisles serving parking spaces shall comply with 502.3. Access aisles shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle.
- 502.3.1 Width. Access aisles serving car and can parking spaces shall be 60" wide.
- 502.3.2 Length. Access aisles shall extend the full length of the parking spaces they serve.
- 502.3.3 Marking. Access shall be marked so as to discourage parking in them.
- 502.3.4 Location. Access aisles shall not overlap the vehicular way. Access aisles shall be permitted to be placed on either side of the parking space except for angled van parking spaces which shall have access aisles located on the passenger side of the parking spaces.
- 502.4 Floor or Ground Surfaces. Parking spaces and access aisles serving them shall comply with 502. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted.
- Exception: Slopes not steeper than 1:48 shall be permitted.
- 502.5 Vertical Clearance. Parking spaces for vans and access aisles and vehicular routes serving them shall provide a vertical clearance of 98" minimum.
- 502.6 Identification. Parking space identification signs shall include the International Symbol of Accessibility complying with 703.7.2.1. Signs identifying van parking spaces shall contain the designation "van accessible". Signs shall be 60" minimum above the finish floor or ground surface measured to the bottom of the sign.
- 502.7 Relationship to Accessible Routes. Parking spaces and access aisles shall be designed so that cars and vans, when parked, cannot obstruct the required clear width of adjacent accessible routes.

TEMPORARY SEDIMENT CONTROL FENCE
N.T.S.

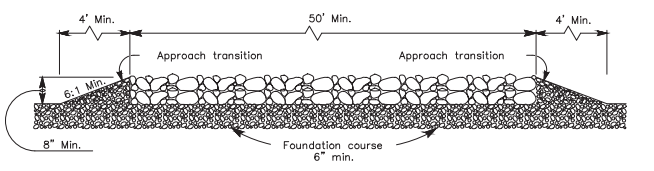


SECTION A-A
N.T.S.

- NOTES:
- CONTRACTOR TO TAKE EXTRA CARE TO KEEP EAST LUCAS CLEAN AND FREE OF DEBRIS. ANY MUD, DEBRIS, ETC. ON THESE ROADS CAUSED BY THIS CONSTRUCTION IS TO BE CLEANED UP AT ONCE.
 - EROSION CONTROL MEASURES TO BE MAINTAINED UNTIL VEGETATION ESTABLISHED @ 75% COVERAGE.



PLAN
N.T.S.



PROFILE

CONSTRUCTION EXIT (TYPE 1)
N.T.S.

FOR PERMITTING & CONSTRUCTION

10/17/2022

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY JEREMY J. MITCHELL, P.E. 116941

FIRM # 5755

SOUTEX
SURVEYORS & ENGINEERS

T.B.P.E. FIRM #5755 • T.X.L.S. FIRM #0123800

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soutexsurveyors.com

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SHEET TITLE
DETAILS

PROJECT
RIDER 45 - LAKESHORE DRIVE TURNAROUND
PORT OF PORT ARTHUR
221 HOUSTON AVENUE
PORT ARTHUR, TEXAS 77641

PROJ. NO: 21-0586
SCALE:
PRINT DATE: 10/17/2022
DRAWN BY: TC
CHECKED BY: JM
APPROVED BY: JM

SHEET C12

EPIC: Environmental Permits Issues and Commitments

Executive Order 13112 for Invasive Species:

- The project will conform with Executive Order 13112 on Invasive Species. Seed with TxDOT approved seeding specifications that, to the extent practicable, is in compliance with EO 13112 and would be done where possible. Abutting grasses within the right-of-way are expected to re-establish throughout the project length. Soil disturbance would be minimized to ensure that invasive species would not establish within the right-of-way.

Executive Order 13186 for Protection of Migratory Birds:

- The project will conform with Executive Order 13186 for Protection of Migratory Birds. The intent of EO 13186 is to support the conservation of habitats, restore and enhance habitats, prevent /abate the pollution or detrimental alteration of migratory bird habitats as practical, and other associated items as published in associated Memorandums of Understanding (by applicable federal agencies).

Executive Memorandum on Beneficial Landscaping:

- The project will conform to the Executive Memorandum on Beneficial Landscaping. Seeding and re-vegetation of disturbed areas will be accomplished according to TxDOT Standards and Specifications. Regionally native, habitat appropriate species should be utilized and water efficient practices such as mulching and erosion control should be implemented.

Bald and Golden Eagle Protection Act

- Bald eagles are known to occur in Jefferson County. If eagle nests are observed near the project area, contact the Project inspector immediately.
- The bald eagle (*Haliaeetus leucocephalus*) is protected by the Bald and Golden Eagle Protection Act (Eagle Act) and the Migratory Bird Treaty Act (MBTA). The MBTA and the Eagle Act protect bald eagles from a variety of harmful actions and impacts. The U.S. Fish and Wildlife Service (Service) developed the National Bald Eagle Management Guidelines to advise landowners, land managers, and others who share public and private lands with bald eagles when and under what circumstances the protective provision of the Eagle Act may apply to their activities. A variety of human activities can potentially interfere with bald eagles, affecting their ability to forage, nest, roost, breed, or raise young. The Guidelines are intended to help people minimize such impacts to bald eagles, particularly where they may constitute "disturbance," which is prohibited by the Eagle Act.
- The National Bald Eagle Management Guidelines can be found in their entirety at <http://www.fws.gov/midwest/eagle/pdf/NationalBaldEagleManagementGuidelines.pdf>

The following Best Management Practice (BMPs) must be implemented:

Water Quality BMPs

- Once construction is complete in an area, the disturbed areas shall immediately be permanently seeded. Once disturbed areas have been revegetated, remove silt fence and accumulated sediment to reduce wildlife barriers and hazards.

- Rubbish found near waterways and ponds should be removed and disposed of properly to minimize the risk of pollution. Rubbish does not include brush piles or snags.

Bird BMPs

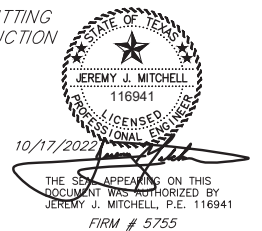
- Not disturbing, destroying, or removing active nests, including ground nesting birds, during the nesting season;
- Avoiding the removal of unoccupied, inactive nests, as practicable;
- Preventing the establishment of active nests during the nesting season of Port facilities and structures proposed for replacement or repair;
- Not collecting, capturing, relocating, or transporting birds, eggs, young, or active nests without a permit.

Species of Concern:

- Bald Eagle
- Golden Eagle
- West Indian Manatee
- Eastern Black Rail
- Piping Plover
- Red Know
- Whooping Crane
- Green Sea Turtle
- Hawksbill Sea Turtle
- Kemp's Ridley Sea Turtle
- Leatherback Sea Turtle
- Loggerhead Sea Turtle
- Monarch Butterfly

If any listed species of concern are observed, work will cease in the area, no species or habitat will be disturbed, and the Project Engineer/Inspector will be notified immediately.

FOR PERMITTING
& CONSTRUCTION



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY JEREMY J. MITCHELL, P.E. 116941 FIRM # 5755



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		C13

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