

# GALVESTON COUNTY

## GALVESTON COUNTY COMMISSIONERS' COURT

**MARK HENRY**  
COUNTY JUDGE

**DARRELL A. APFFEL**  
PRECINCT 1

**JOE GIUSTI**  
PRECINCT 2

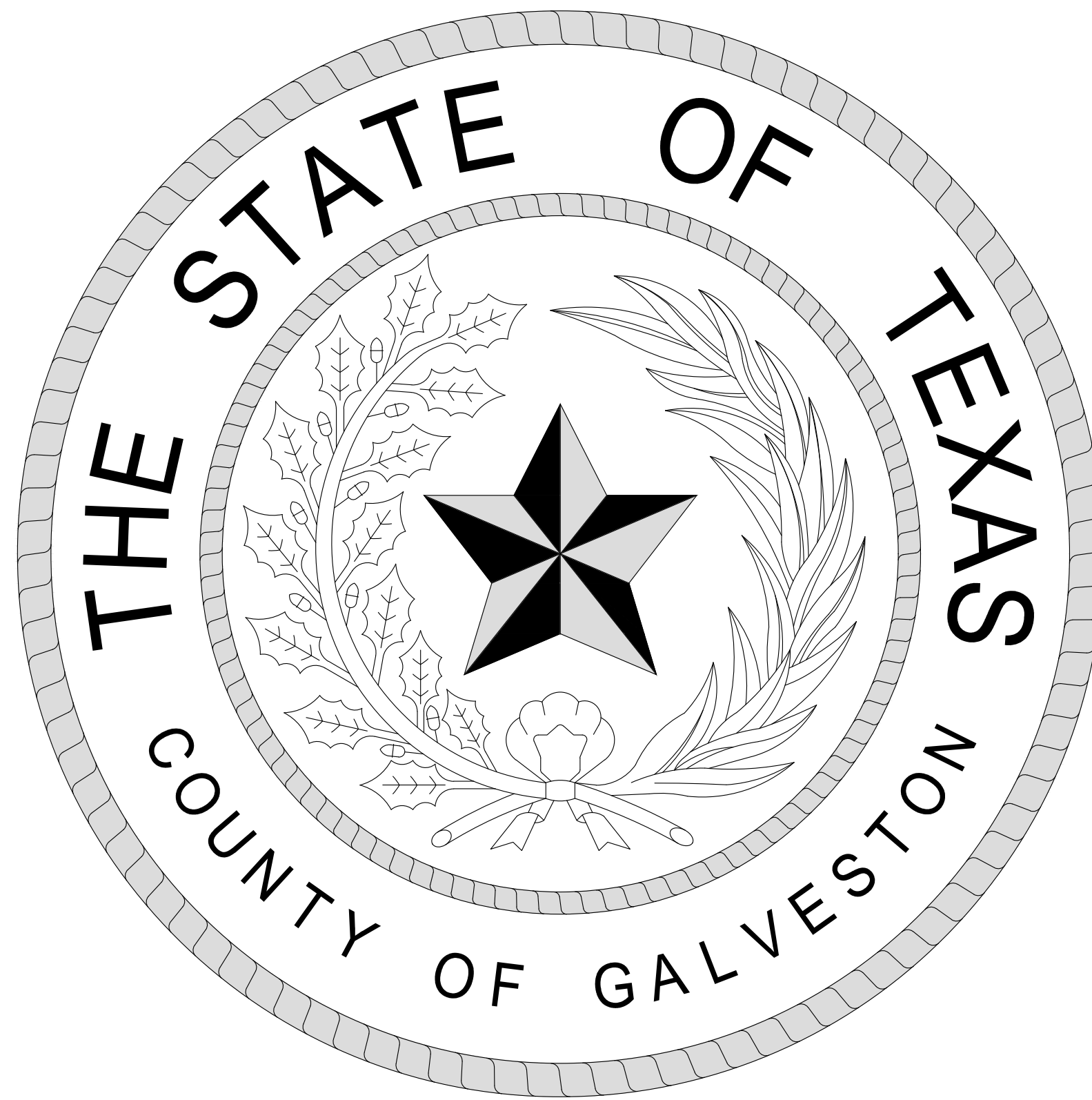
**STEPHEN D. HOLMES**  
PRECINCT 3

**ROBIN ARMSTRONG**  
PRECINCT 4

**MICHAEL C. SHANNON, P.E.**  
COUNTY ENGINEER

**JULIE DIAZ**  
DIRECTOR GALVESTON COUNTY  
PARKS & CULTURAL SERVICES

## CONSTRUCTION PLANS FOR: BAYSIDE REGIONAL PARK SIDEWALK



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**AUGUST, 2024**  
**LJA PROJECT No. 0384-9014**

**LJA Engineering, Inc.**

11821 East Freeway  
Suite 360  
Houston, Texas 77029

Phone 713.450.1300  
Fax 713.450.1385  
FRN - F-1386

**GENERAL NOTES:**

- CONTRACTOR SHALL CONTACT MRS. JULIE DIAZ (JULIE.DIAZ@CO.GALVESTON.TX.US) AT (409) 934-8114 AT LEAST FORTY EIGHT (48) HOURS PRIOR TO CONSTRUCTION FOR NOTIFICATION OF COMMENCEMENT.
- CONTRACTOR SHALL CONTACT MRS. MARTHA LEE (MARTHA.LEE@CO.GALVESTON.TX.US) AT (409) 934-8126, AT LEAST FORTY EIGHT (48) HOURS PRIOR TO CONSTRUCTION FOR NOTIFICATION OF COMMENCEMENT.
- LOCATION OF EXISTING UNDERGROUND UTILITIES AND SERVICE LINES (WATER, SEWER, GAS, TELEPHONE, ELECTRICAL, ETC.) ARE DETERMINED FROM AVAILABLE RECORDS AND ARE APPROXIMATE. CONTRACTOR SHALL LOCATE LINES AND/ OR OBSTRUCTIONS AHEAD OF EXCAVATION.
- CONSTRUCTION STAKING (ALIGNMENT AND GRADE) TO BE PROVIDED BY THE CONTRACTOR AT NO SEPARATE PAY.
- CONTRACTOR TO USE CAUTION WHEN CROSSING ALL EXISTING FACILITIES. ANY DAMAGE TO BE REPAIRED AT THE CONTRACTORS EXPENSE WITH NO SEPARATE PAY.
- SURPLUS EXCAVATED MATERIAL SHALL BE REMOVED AND DISPOSED OFF SITE BY THE CONTRACTOR (NO SEPARATE PAY). IF THE ENGINEER NOTIFIES THE CONTRACTOR THAT THE OWNER HAS USE FOR THIS MATERIAL, THE MATERIAL WILL BE HAULED TO A SITE AS DIRECTED BY THE OWNER WITHIN THE CITY. NO FILL SHALL BE PLACED WITHIN ANY FLOODPLAIN HAZARD AREA WITHOUT APPROVAL FROM THE CITY.
- WHERE CONTRACTOR'S WORK AND/ OR EQUIPMENT CAUSES AN OBSTRUCTION TO TRAFFIC, CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH PART IV OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (TEXAS M.U.T.C.D., MOST RECENT EDITION AS REVISED) DURING CONSTRUCTION.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE LOCAL REQUIREMENTS.
- CONTRACTOR SHALL PROTECT EXISTING FACILITIES DURING INSTALLATION OF PROPOSED WORK.
- ALL WORK IN THE TEXAS DEPARTMENT OF TRANSPORTATION AND COUNTY RIGHT-OF-WAYS SHALL CONFORM TO THE STANDARDS OF THOSE GOVERNMENTAL ENTITIES. CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT AND/ OR REPAIR OF ANY DAMAGE TO TxDOT MARKERS.
- CONTRACTOR SHALL MAINTAIN DRAINAGE TO ORIGINAL OR BETTER CONDITION THROUGHOUT THE CONSTRUCTION OF THE PROJECT. NO SEPARATE PAY.
- PAVED SURFACES SHALL BE PROTECTED FROM DAMAGE FROM TRACKED EQUIPMENT.
- OBTAIN ALL PERMITS, NOT PROVIDED BY OWNER, PRIOR TO STARTING CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN ACCESS FOR PROPERTY OWNERS, POST OFFICE VEHICLES, SCHOOL TRAFFIC AND VEHICLES, GARBAGE TRUCKS AND EMERGENCY VEHICLES AT ALL TIMES. CONTRACTOR SHALL COORDINATE ROAD CONSTRUCTION WITH SCHOOL OFFICIALS AND CITY OF GALVESTON FOR ENTIRETY OF CONSTRUCTION AT NO SEPERATE PAY.
- NOTIFY ALL PROPERTY OWNERS A MINIMUM OF TWENTY FOUR (24) HOURS PRIOR TO BLOCKAGE OF DRIVEWAYS OR ENTERING OF UTILITY EASEMENTS.
- PROPERTY OWNERS SHALL BE NOTIFIED, IN WRITING, BY CONTRACTOR, WITH DOOR HANGERS 2 WEEKS BEFORE CONSTRUCTION BEGINS. (PROPERTY OWNER SHALL BE PROVIDED THE MINIMUM FOLLOWING INFORMATION: WORK TO BE PERFORMED, STARTING AND ENDING DATES, AND THE NAME AND NUMBER OF CONTRACTOR'S REPRESENTATIVE, CITY OF GALVESTON OFFICIAL, & GALVESTON COUNTY OFFICIAL TO BE CONTACTED FOR QUESTIONS. WRITTEN NOTICES SHALL BE APPROVED BY THE CITY OF GALVESTON PRIOR TO DISTRIBUTION).
- ALL ITEMS OF WORK REQUIRED UNDER THIS CONTRACT NOT SPECIFICALLY CALLED FOR IN THE QUOTE SHALL BE CONSIDERED INCIDENTAL TO VARIOUS BID ITEMS AND NO SEPARATE PAYMENT SHALL BE MADE FOR SAME.
- ADJUST MANHOLE RINGS, VALVE BOXES, GRATES, ETC. AS REQUIRED FOR NEW PAVEMENT, AND/OR TO FINISHED GRADE OUTSIDE PAVEMENT.
- ALL TRAFFIC SIGNS AND STRIPING SHALL CONFORM TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- IT IS IMPERATIVE THAT CONSTRUCTION IN PROJECT AREA INCONVENIENCE RESIDENTS AND BUSINESSES AS LITTLE AS POSSIBLE. COMPLETE CLEAN-UP NOT GREATER THAN ONE BLOCK BEHIND ACTIVE CONSTRUCTION AREA. CLEAN-UP INCLUDES COMPACTION OF BACKFILL, CLOSURE OF BORE PITS, RESHAPING OF DITCHES, SURFACE RESTORATION, REMOVAL OF ALL EXCESS EXCAVATED MATERIAL, REMOVAL OF EQUIPMENT AND CONSTRUCTION MATERIALS, AND SWEEPING OF STREETS.
- CONTRACTOR SHALL NOTIFY GALVESTON COUNTY AMBULANCE, POLICE, FIRE, MAIL, TRASH AND OTHER EMERGENCY SERVICE AGENCIES AT LEAST 48 HOURS PRIOR TO CLOSURE OF ANY STREET, INTERSECTION, OR LANE OF TRAFFIC. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO ALLOW ACCESS TO EMERGENCY VEHICLES AT ALL TIMES.
- CONTRACTOR SHALL CONTACT GALVESTON COUNTY AT LEAST TWENTY FOUR (24) HOURS IN ADVANCE OF THE NEED TO CLOSE ANY VALVES AND THE COUNTY SHALL PERFORM CLOSINGS / OPENINGS.
- CONTRACTOR TO CONTACT "DIG-TESS" AT 1-800-344-8377 AT LEAST 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION FOR LOCATION AND MARKING OF UNDERGROUND CABLE.
- CONTRACTOR TO SAW-CUT ALL TIE-INS AND DRIVEWAY RECONNECTIONS FOR CLEAN EDGE THROUGHOUT ENTIRETY OF PROJECT AS DESIRED BY ENGINEER. (NO EXTRA PAY)
- THE CONTRACTOR SHALL COORDINATE, MOVE, AND RELOCATE ALL EXISTING MAILBOXES, SIGNS, POLE, UTILITIES, ETC. THAT CONFLICT WITH THE CONSTRUCTION OF THE CONCRETE SIDEWALK.

**UTILITY NOTES**

**CAUTION: AT&T TEXAS/SWBTFACILITIES**

- THE LOCATIONS OF AT&T TEXAS/SWBTFACILITIES 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/SWBTFACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING, THE CONTRACTOR SHALL EXPOSE THE AT&T TEXAS/SWBTFACILITIES.
- WHEN AT&T TEXAS/SWBTFACILITIES 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/SWBTF UNDERGROUND CONDUIT FACILITIES OR BURIED CABLE FACILITIES SHOWN ON THESE PLANS DOES NOT MEAN THAT THERE ARE NO DIRECT BURIED CABLES OR OTHER CABLES IN CONDUIT IN THE AREA.
- PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER KEVIN RAY AT (713) 614-1983 OR EMAIL AT KR7896@ATT.COM IF CABLE LOCATE REQUESTS ARE NOT COMPLETED FOR OUR AT&T TEXAS/SWBTFACILITIES.

**WARNING: TEXAS NEW MEXICO OVERHEAD ELECTRIC FACILITIES**

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 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 TEXAS NEW MEXICO POWER COMPANY, AT 1-888-866-7456.

**CAUTION: UNDERGROUND GAS FACILITIES**

THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 1-800-545-6005 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE A MAIN AND SERVICE LINES FIELD LOCATED.

- WHEN CENTERPOINT ENERGY PIPELINE MARKINGS ARE NOT VISIBLE, CALL (713) 207-5463 OR (713) 945-8037 (7:00 A.M. TO 4:30 P.M.) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.
- WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
- WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.
- FOR EMERGENCIES REGARDING GAS LINES CALL (713) 659-2111 OR (713) 207-4200.

THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

**CAUTION: UNDERGROUND CABLE FACILITIES**

TELEPHONE AND TELEVISION CABLE EXISTS UNDERGROUND THROUGHOUT THE PROPOSED PROJECT AREA. CONTRACTOR TO CONTACT "DIG-TESS" AT 1-800-344-8377 AT LEAST 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION FOR LOCATION AND MARKING OF UNDERGROUND CABLE.

**CAUTION: UNDERGROUND ELECTRICAL FACILITIES**

THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 1-800-545-6005 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE A MAIN AND SERVICE LINES FIELD LOCATED.

- ALL INFORMATION CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTORS ARE RESPONSIBLE MAKING THEIR OWN DETERMINATIONS AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND PIPELINES, CONDUITS, AND STRUCTURES BY CONTACTING OWNERS OF UNDERGROUND UTILITIES OR BY EXCAVATING IN ADVANCE OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES WHEN AND WHERE THEY FALL IN THE PATH OF CONSTRUCTION.
- THE CONTRACTOR IS ALSO RESPONSIBLE FOR CONTACTING THE UTILITY COORDINATING COMMITTEE AT (713) 223-4567 AND TEXAS ONE CALL AT 1-800-245-4545, FORTY-EIGHT (48) HOURS PRIOR TO ANY CONSTRUCTION.
- THE LOCATION OF ANY CENTERPOINT ENERGY UTILITIES ARE SHOWN IN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. THEY AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
- ALL PROPOSED FACILITIES SHALL MAINTAIN 12" CLEAR FROM ALL EXISTING UTILITIES.

**WARNING: OVERHEAD ELECTRICAL LINES**

OVERHEAD LINES MAY EXIST ON THE PROPERTY. THE LOCATION OF OVERHEAD LINES HAS NOT BEEN SHOWN ON THESE DRAWINGS AS THE LINES ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ACTIVITIES THAT OCCUR IN CLOSE PROXIMITY TO HIGH VOLTAGE LINES, SPECIFICALLY:

- ANY ACTIVITY WHERE PERSON OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES; AND
- OPERATING A CRANE, DERRICK, POWER SHOVEL, DRILLING RIG, PILE DRIVER, HOISTING EQUIPMENT, OR SIMILAR APPARATUS WITHIN 10 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 CENTERPOINT ENERGY AT (713) 207-2222.

**ACTIVITIES ON OR ACROSS CENTERPOINT ENERGY FEE OR EASEMENT PROPERTY**

NO APPROVAL TO USE, CROSS OR OCCUPY CENTERPOINT FEE OR EASEMENT PROPERTY IS GIVEN. IF YOU NEED TO USE CENTERPOINT PROPERTY, PLEASE CONTACT OUR SURVEYING & RIGHT OF WAY DIVISION AT (713) 207-6348 OR (713) 207-5769.

**CAUTION: UNDERGROUND PIPELINES**

UNDERGROUND PIPELINES ARE SHOWN ACCORDING TO BEST AVAILABLE INFORMATION. CONTRACTOR TO PROCEED WITH CAUTION DURING EXCAVATION. CONTRACTOR TO COORDINATE WITH PIPELINE OWNER IN CASE OF CONFLICTS OR QUESTIONS.

**STORM SEWER NOTES**

- THE STORM SEWER SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH GALVESTON COUNTY STANDARD SPECIFICATIONS, LATEST PRINTING AND AMENDMENTS THERETO.
- REINFORCED CONCRETE PIPE STORM SEWER SHALL BE IN ACCORDANCE WITH ASTM C-76, CLASS III, WALL B, WITH RUBBER GASKET.
- REINFORCED CONCRETE BOX CULVERTS SHALL CONFORM TO ASTM C-1433, WITH RUBBER GASKET.
- BEDDING AND BACKFILL SHALL CONFORM TO GALVESTON COUNTY SPECIFICATIONS AND DETAILS ON PLANS.
- EXISTING EXCAVATED INLETS, CURB AND GUTTER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE CONSTRUCTION SITE.
- CONTRACTOR TO MAINTAIN ADEQUATE DRAINAGE AT ALL TIMES AND SHALL RESHAPE AND REGRADE ANY DITCHES DISTURBED DURING CONSTRUCTION, AT NO SEPARATE PAY.
- CONTRACTOR TO FILL OPEN DITCH SYSTEMS BEING REPLACED BY BOX CULVERT AND INLET SYSTEMS. GRADE AREAS TO DRAIN TO TOP OF GRATE ELEVATIONS AND THROAT ELEVATIONS SHOWN ON PLANS.
- ALL UTILITIES SHALL BE INSTALLED PER COUNTY STANDARDS FOR UTILITIES UNDER PAVEMENT WHERE FUTURE PAVEMENT IS PLANNED BY COUNTY

**SIDEWALK NOTES:**

- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 3,000 PSI AT 28 DAYS.
- SIDEWALK SHALL TIE-IN TO EXISTING DRIVEWAY SLOPES ALREADY DEDICATED FOR SIDEWALK. CONTRACTOR TO LAYOUT SIDEWALK AND COORDINATE WITH OWNER'S REPRESENTATIVE BEFORE PLACEMENT OF SIDEWALK INCASES WHERE TIE-IN IS NOT FEASIBLE.
- CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL AMERICAN DISABILITY ACT STANDARDS AND GUIDELINES AT NO EXTRA PAY. ANYTHING PLACED AND DEEMED NOT ACCEPTABLE AFTER TEXAS DEPARTMENT OF LICENSING AND REGULATIONS INSPECTION SHALL BE FIXED BEFORE CONTRACTOR CAN CLOSE OUT THE JOB AT NO EXTRA PAY.



**VICINITY MAP**

SCALE: N.T.S.



**LOCATION MAP**

SCALE: N.T.S.



**GALVESTON COUNTY BAYSIDE REGIONAL PARK**

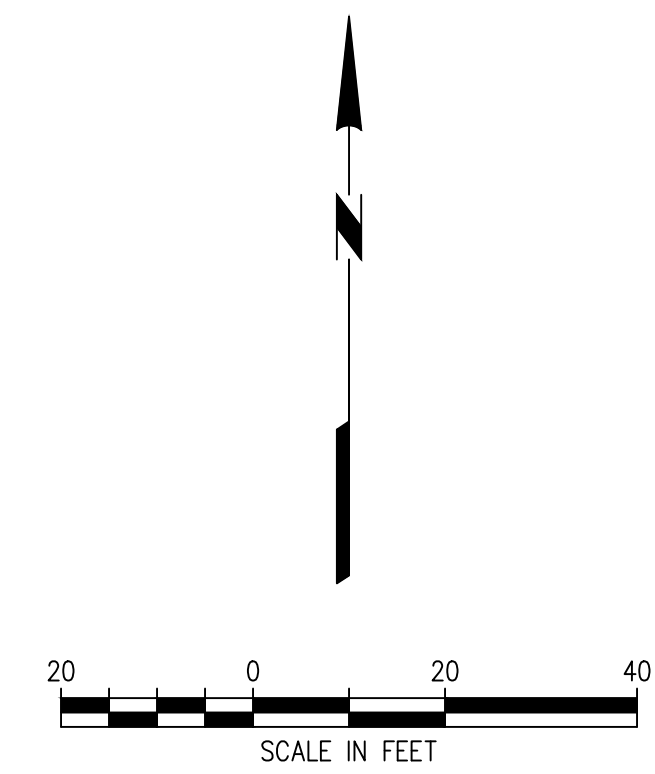
**GENERAL NOTES LOCATION & VICINITY MAPS**

**LJA Engineering, Inc.**  
 11821 East Freeway Phone 713.450.1300  
 Suite 360 Fax 713.450.1385  
 Houston, Texas 77029 FRN - F-1386

SCALE: AS SHOWN | JOB No. 0384-9014 | SHEET No. 02 OF 09



SIDEWALK TO MAINTAIN 5' OF SEPARATION BETWEEN SIDEWALK AND HIGHBANK OF DITCH/RETENTION POND UNLESS STATED OTHERWISE BY OWNER OR OWNER'S REPRESENTATIVE



- PROP. SIDEWALK
- EXIST. STM. SWR.
- PROP. STM. SWR.

**QUANTITIES**  
 CONCRETE AREA = 11,045 SF  
 SIDEWALK LENGTH = 2,680 FEET

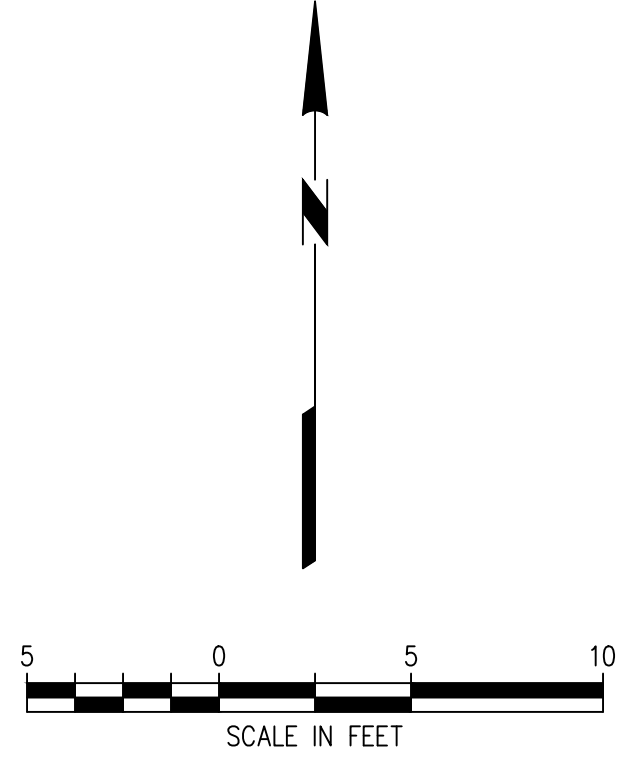
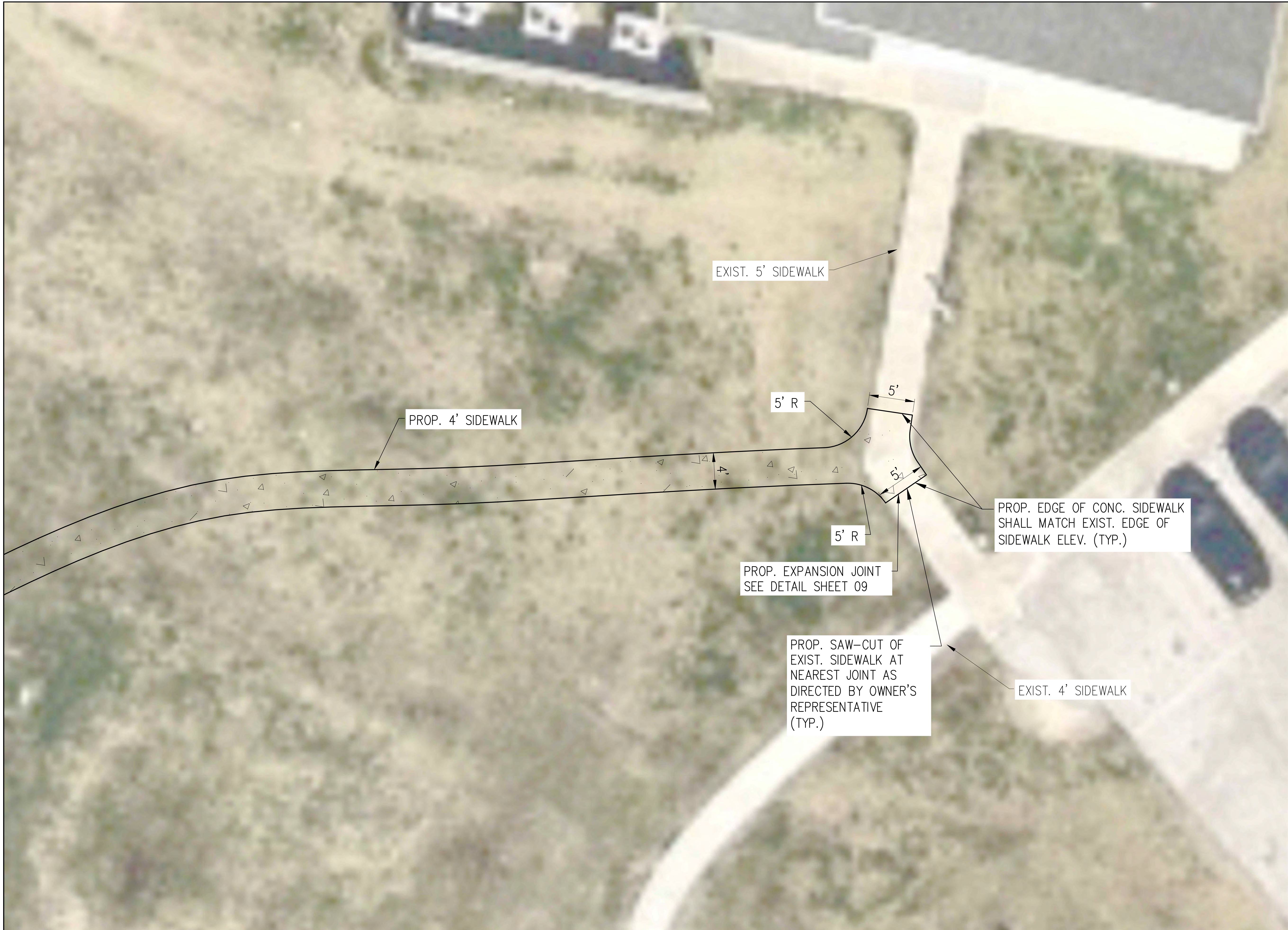
**NOTES:**  
 1. CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL AMERICAN DISABILITY ACT STANDARDS AND GUIDELINES AT NO EXTRA PAY. ANYTHING PLACED AND DEEMED NOT ACCEPTABLE AFTER TEXAS DEPARTMENT OF LICENSING AND REGULATIONS INSPECTION SHALL BE FIXED BEFORE CONTRACTOR CAN CLOSE OUT THE JOB AT NO EXTRA PAY.



**GALVESTON COUNTY  
 BAYSIDE REGIONAL PARK**

**SIDEWALK LAYOUT**

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▬ PROP. SIDEWALK

**NOTES:**  
 1. CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL AMERICAN DISABILITY ACT STANDARDS AND GUIDELINES AT NO EXTRA PAY. ANYTHING PLACED AND DEEMED NOT ACCEPTABLE AFTER TEXAS DEPARTMENT OF LICENSING AND REGULATIONS INSPECTION SHALL BE FIXED BEFORE CONTRACTOR CAN CLOSE OUT THE JOB AT NO EXTRA PAY.



**GALVESTON COUNTY  
 BAYSIDE REGIONAL PARK  
 SIDEWALK EXHIBIT  
 SHEET 1 OF 5**

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EXIST. 4' SIDEWALK

PROP. 4' SIDEWALK

5' R

5' R

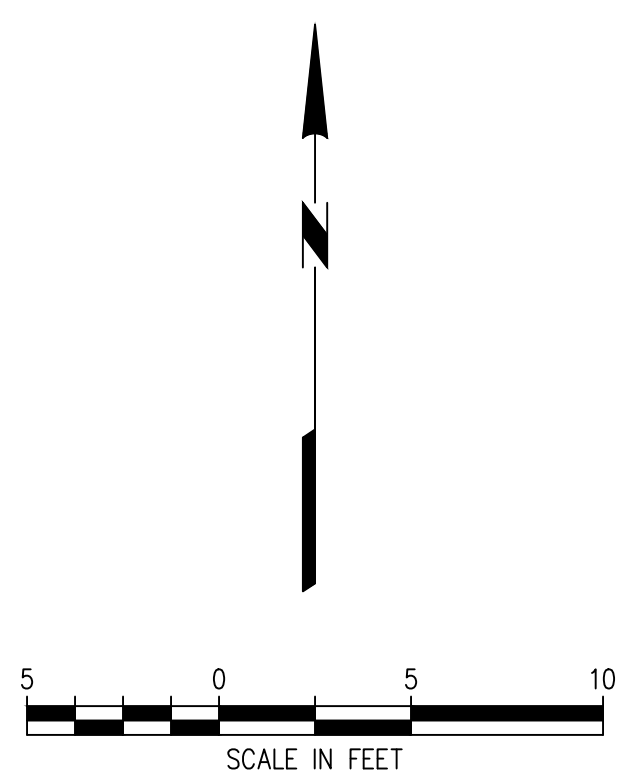
4'

4'

PROP. EXPANSION JOINT  
SEE DETAIL SHEET 09

PROP. EDGE OF CONC. SIDEWALK  
SHALL MATCH EXIST. EDGE OF  
SIDEWALK ELEV. (TYP.)

PROP. SAW-CUT OF  
EXIST. SIDEWALK AT  
NEAREST JOINT AS  
DIRECTED BY OWNER'S  
REPRESENTATIVE  
(TYP.)



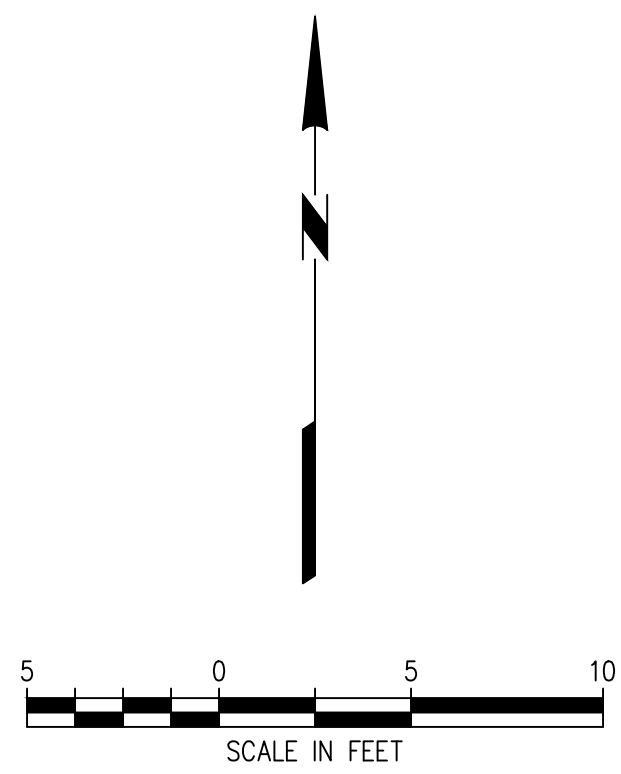
PROP. SIDEWALK

NOTES:  
1. CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL AMERICAN DISABILITY ACT STANDARDS AND GUIDELINES AT NO EXTRA PAY. ANYTHING PLACED AND DEEMED NOT ACCEPTABLE AFTER TEXAS DEPARTMENT OF LICENSING AND REGULATIONS INSPECTION SHALL BE FIXED BEFORE CONTRACTOR CAN CLOSE OUT THE JOB AT NO EXTRA PAY.



**GALVESTON COUNTY  
BAYSIDE REGIONAL PARK**  
**SIDEWALK EXHIBIT  
SHEET 2 OF 5**

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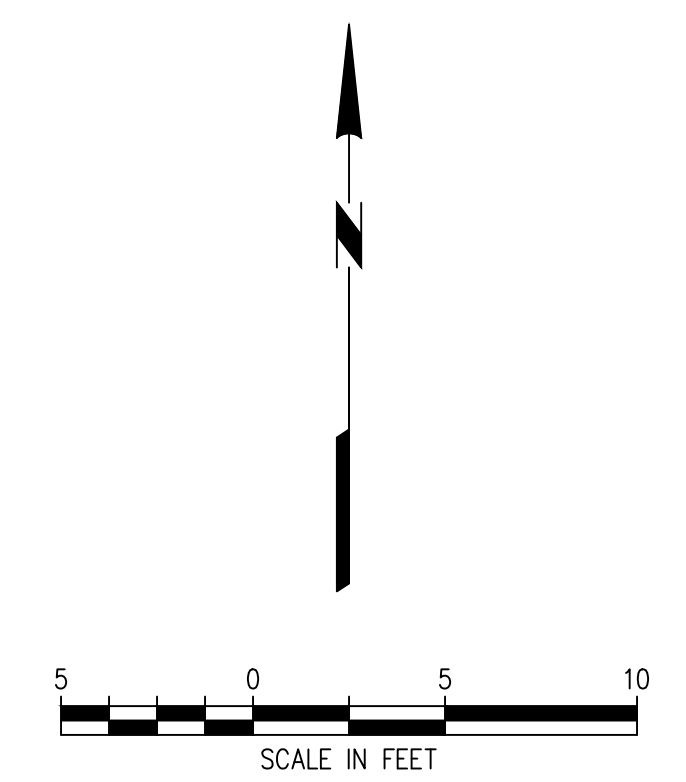
▬ PROP. SIDEWALK

**NOTES:**  
 1. CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL AMERICAN DISABILITY ACT STANDARDS AND GUIDELINES AT NO EXTRA PAY. ANYTHING PLACED AND DEEMED NOT ACCEPTABLE AFTER TEXAS DEPARTMENT OF LICENSING AND REGULATIONS INSPECTION SHALL BE FIXED BEFORE CONTRACTOR CAN CLOSE OUT THE JOB AT NO EXTRA PAY.



**GALVESTON COUNTY  
 BAYSIDE REGIONAL PARK  
 SIDEWALK EXHIBIT  
 SHEET 3 OF 5**

**LJA Engineering, Inc.**  
 11821 East Freeway Suite 360 Houston, Texas 77029  
 Phone 713.450.1300 Fax 713.450.1385 FRN - F-1386



PROP. SIDEWALK

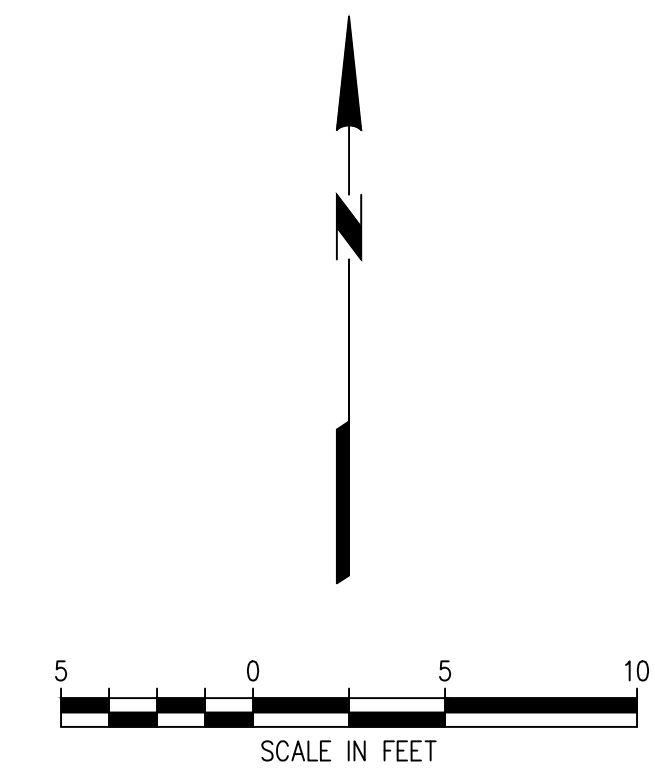
**NOTES:**  
 1. CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL AMERICAN DISABILITY ACT STANDARDS AND GUIDELINES AT NO EXTRA PAY. ANYTHING PLACED AND DEEMED NOT ACCEPTABLE AFTER TEXAS DEPARTMENT OF LICENSING AND REGULATIONS INSPECTION SHALL BE FIXED BEFORE CONTRACTOR CAN CLOSE OUT THE JOB AT NO EXTRA PAY.



**GALVESTON COUNTY  
 BAYSIDE REGIONAL PARK**

**SIDEWALK EXHIBIT 4 OF 5**

**LJA Engineering, Inc.**  
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—•—•—•— PROP. SIDEWALK

**NOTES:**  
 1. CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL AMERICAN DISABILITY ACT STANDARDS AND GUIDELINES AT NO EXTRA PAY. ANYTHING PLACED AND DEEMED NOT ACCEPTABLE AFTER TEXAS DEPARTMENT OF LICENSING AND REGULATIONS INSPECTION SHALL BE FIXED BEFORE CONTRACTOR CAN CLOSE OUT THE JOB AT NO EXTRA PAY.



**GALVESTON COUNTY  
 BAYSIDE REGIONAL PARK**

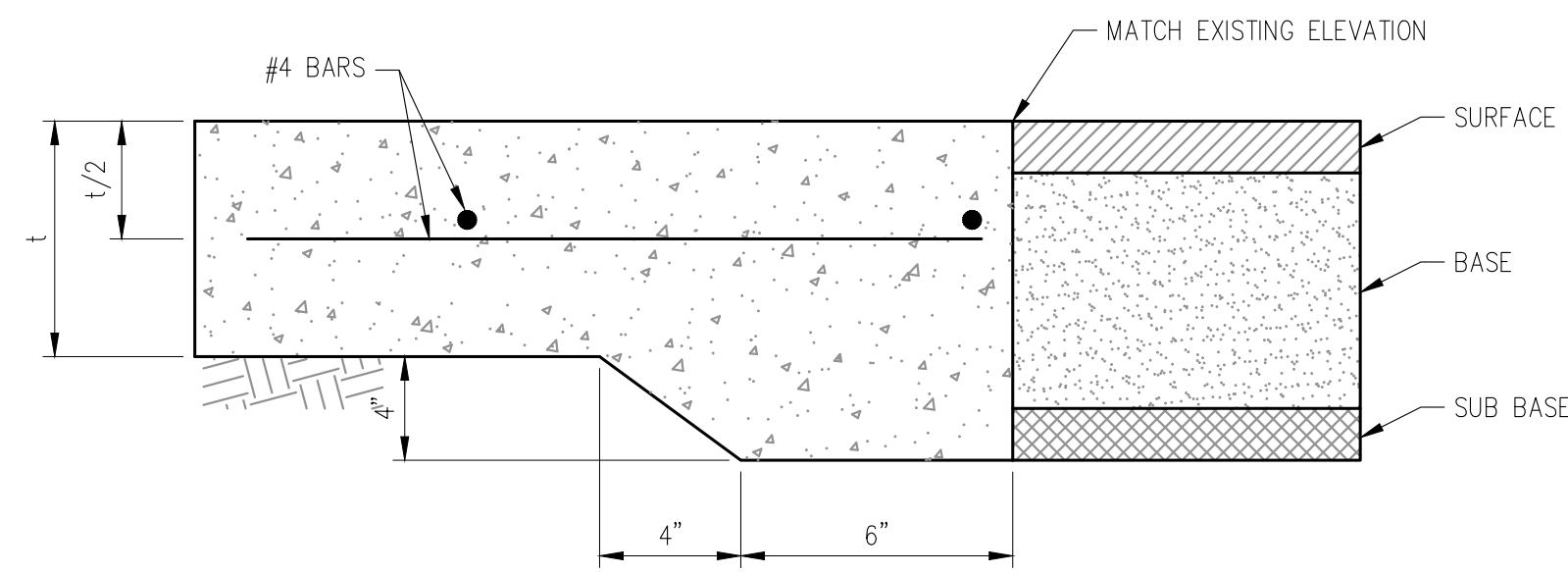
**SIDEWALK EXHIBIT 5 OF 5**

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SCALE: AS SHOWN JOB No. 0384-9014 SHEET No. 08 OF 09

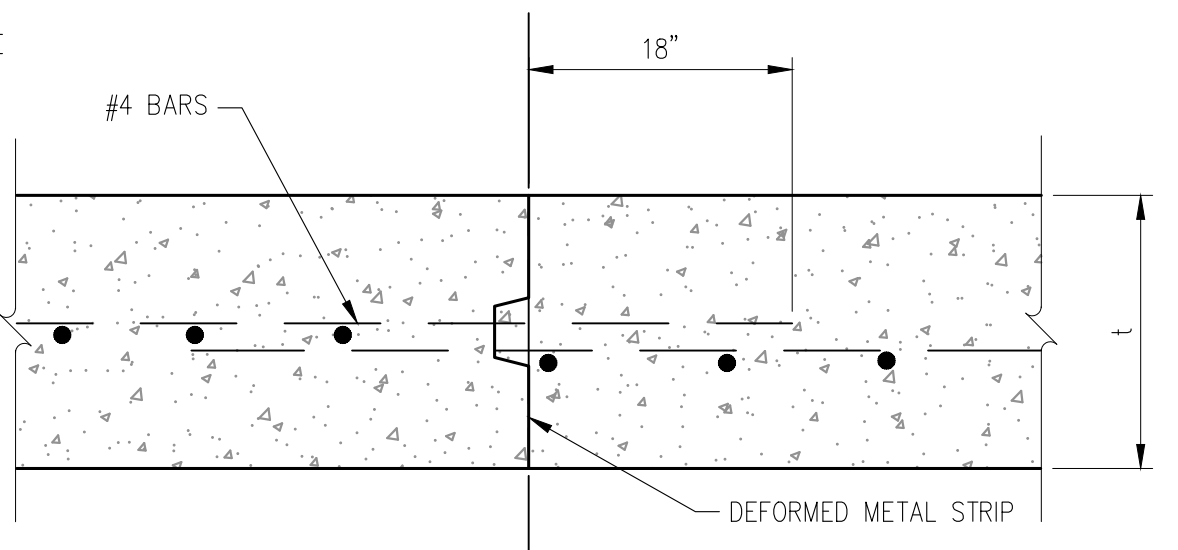


t = THICKNESS OF CONCRETE PAVEMENT REFER TO SUBDIVISION RULES AND REGULATIONS.

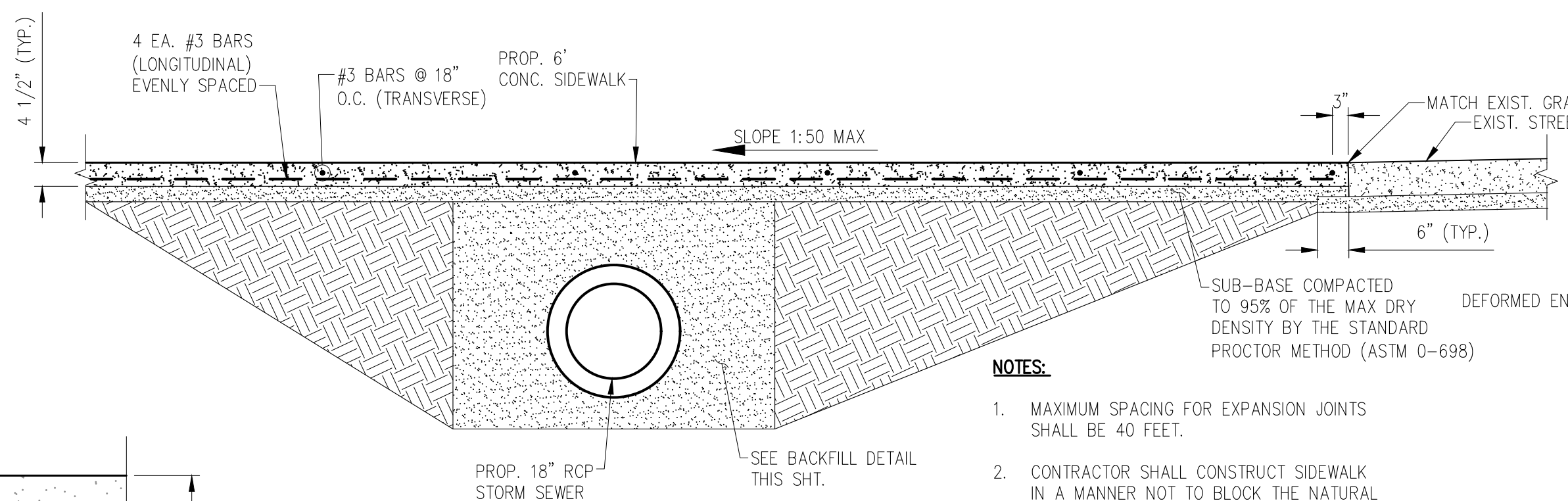


**CONCRETE TO ASPHALT STANDARD PAVING HEADER**  
N.T.S.

t = THICKNESS OF CONCRETE PAVEMENT REFER TO SUBDIVISION RULES AND REGULATIONS.

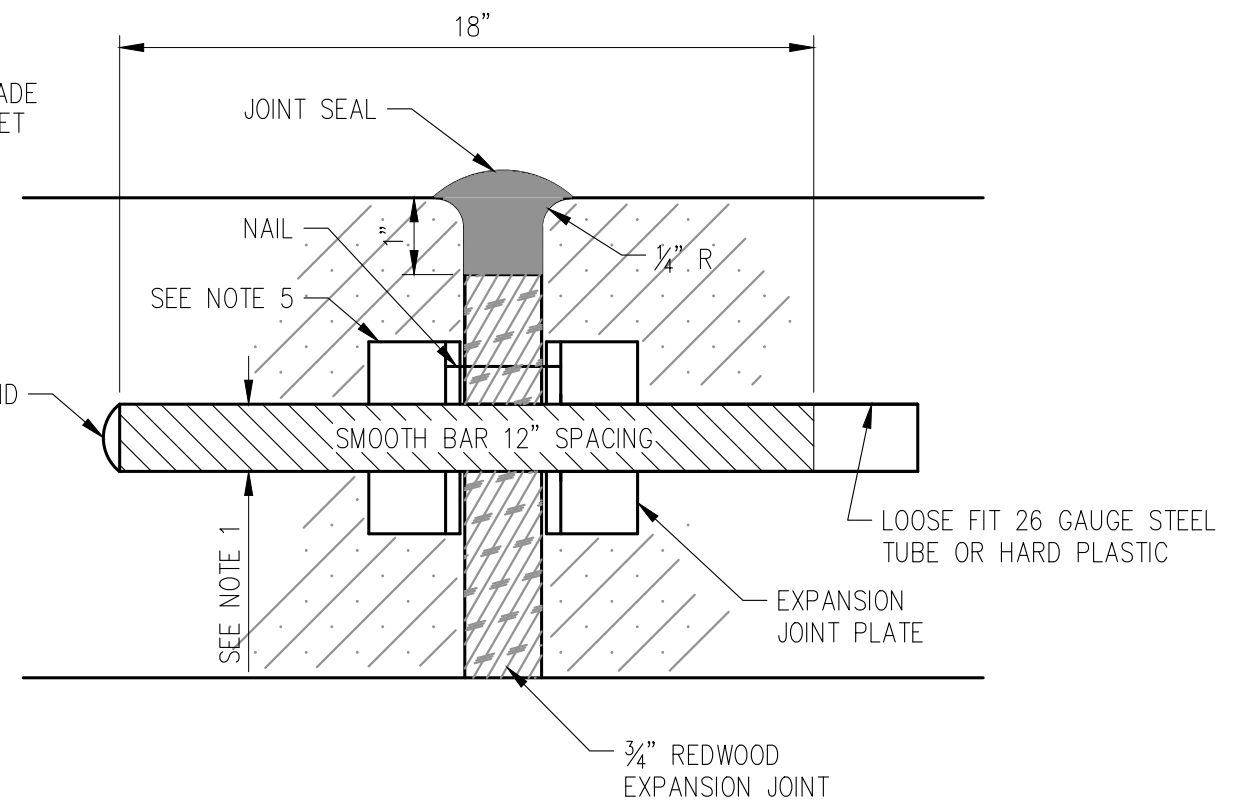


**CONSTRUCTION JOINT DETAIL**  
N.T.S.



**CULVERT SECTION A-A**  
N.T.S.

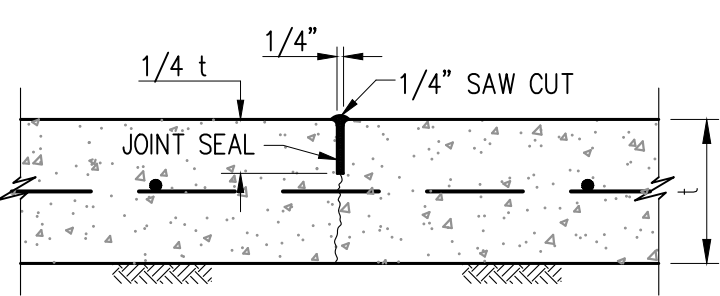
- NOTES:**
1. MAXIMUM SPACING FOR EXPANSION JOINTS SHALL BE 40 FEET.
  2. CONTRACTOR SHALL CONSTRUCT SIDEWALK IN A MANNER NOT TO BLOCK THE NATURAL DRAINAGE FROM ADJACENT PROPERTY.
- REINFORCING STEEL INFORMATION FOR 4 1/2" THICK SIDEWALKS  
EXPANSION JOINT SPACING = 40 FT  
f'c = 3,000 PSI AND fy = 60,000 PSI



**EXPANSION JOINT DETAIL**  
N.T.S.

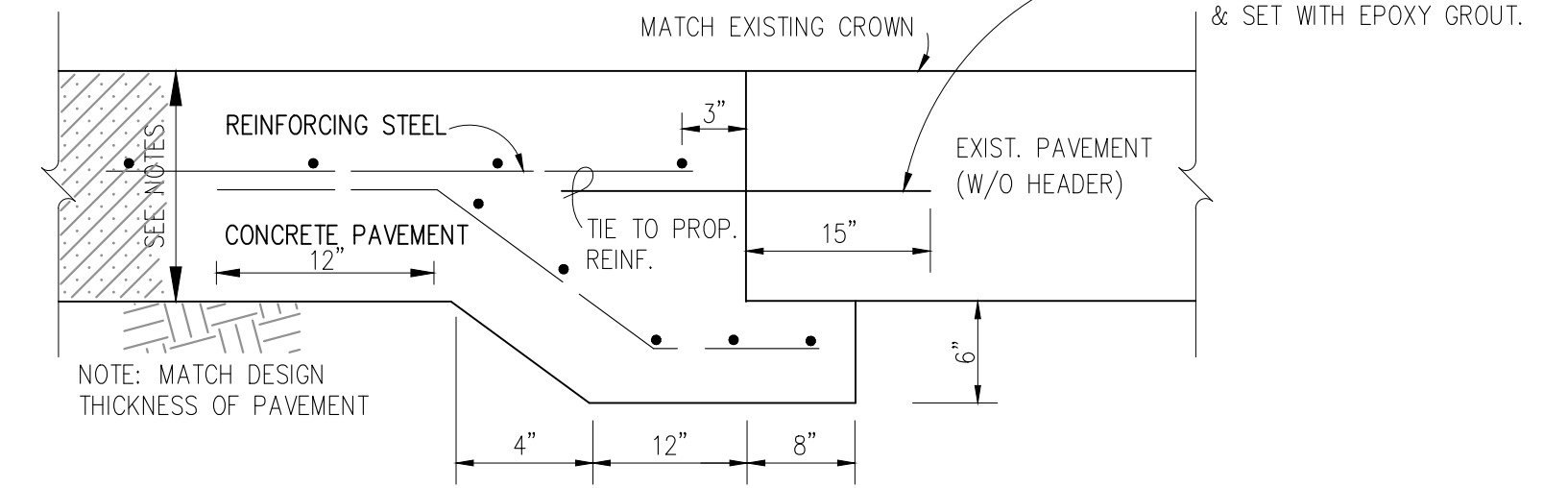
- NOTES:**
1. DOWELS FOR PAVEMENT EXPANSION SHALL BE 3/4" FOR 6" TO LESS THAN 7" PAVEMENT THICKNESS, 1" FOR 7" TO LESS THAN 9" PAVEMENT THICKNESS AND 1 1/4" FOR 9" OR GREATER PAVEMENT THICKNESS.
  2. EXPANSION JOINT SHALL BE PLACED AT THE END OF EACH CURB RETURN AND AT MAXIMUM 80' SPACING.
  3. ALL JOINT SEAL MATERIAL SHALL BE ASPHALT RUBBER ACCORDANCE WITH ASTM DESIGNATION D3405.
  4. IF DEFORMED METAL STRIPS ARE ALLOWED, THEY SHALL BE STAKED IN PLACE WITH #3 BARS.
  5. PRE-MANUFACTURED JOINT PLATE.

t = THICKNESS OF CONCRETE PAVEMENT.



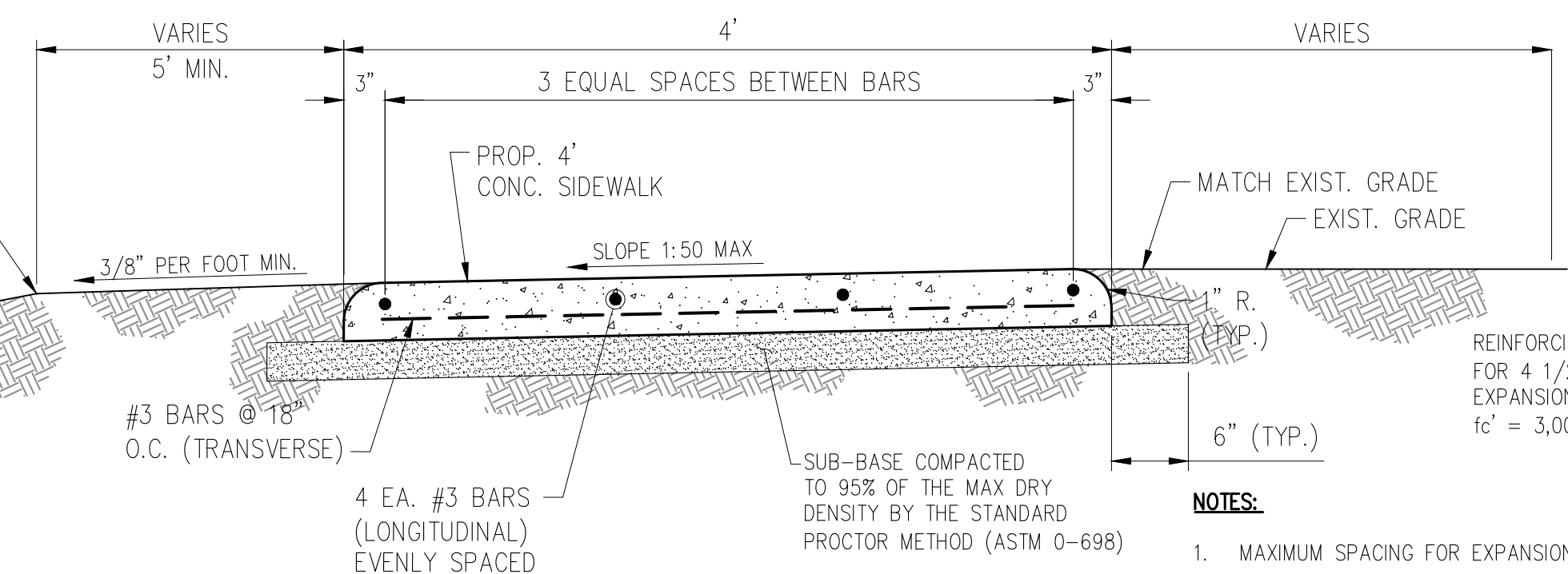
**SAW CUT CONTRACTION JOINT DETAIL**  
N.T.S.

**NOTES:**  
1. WHERE SAWED JOINTS ARE PERMITTED BY THE ENGINEER, THEY SHALL BE SAWED AS SOON AS SAWING CAN BE ACCOMPLISHED, WITHOUT DAMAGE TO THE PAVEMENT, AND AS DIRECTED BY THE ENGINEER. ONCE SAWING HAS COMMENCED, IT SHALL BE CONTINUED UNTIL COMPLETED. THE SAW CUT SHALL BE MADE WITH ONE PASS OF THE CONCRETE SAW. SAWING MUST BE ACCOMPLISHED EVEN IN RAIN OR COLD WEATHER. ALL SAWING MUST BE COMPLETED WITHIN TWENTY-FOUR HOURS OF THE CONCRETE PAVEMENT PLACEMENT.



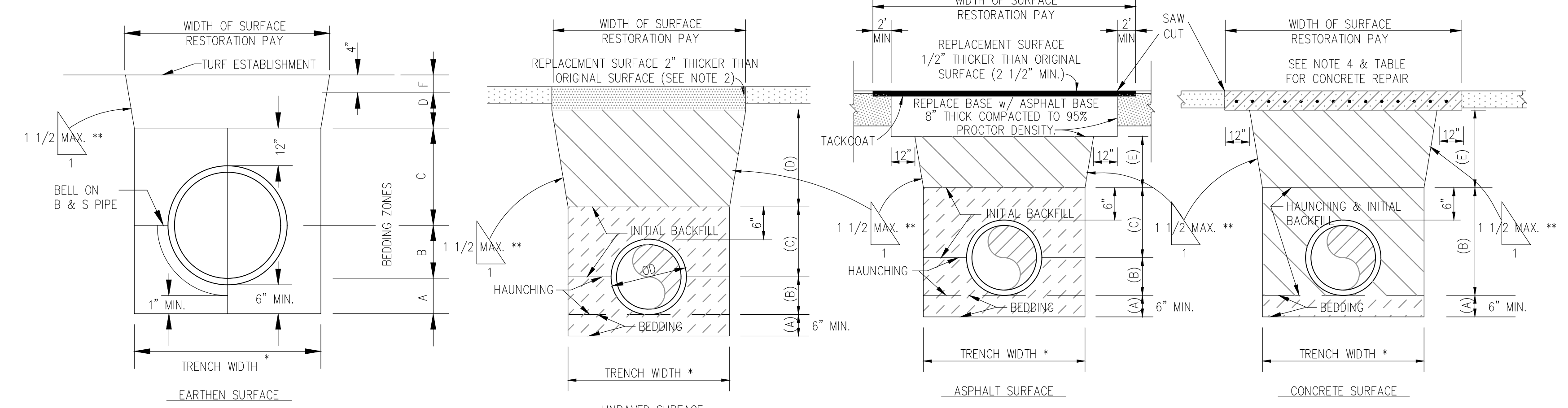
**CONCRETE TO CONCRETE STANDARD PAVING HEADER**  
N.T.S.

EXIST. DETENTION POND HIGHBANK MAINTAIN 5' CLEARANCE BETWEEN HIGHBANK AND SIDEWALK



**PROP. 4' SIDEWALK SECTION**  
N.T.S.

- NOTES:**
1. MAXIMUM SPACING FOR EXPANSION JOINTS SHALL BE 40 FEET.
  2. CONTRACTOR SHALL CONSTRUCT SIDEWALK IN A MANNER NOT TO BLOCK THE NATURAL DRAINAGE FROM ADJACENT PROPERTY.

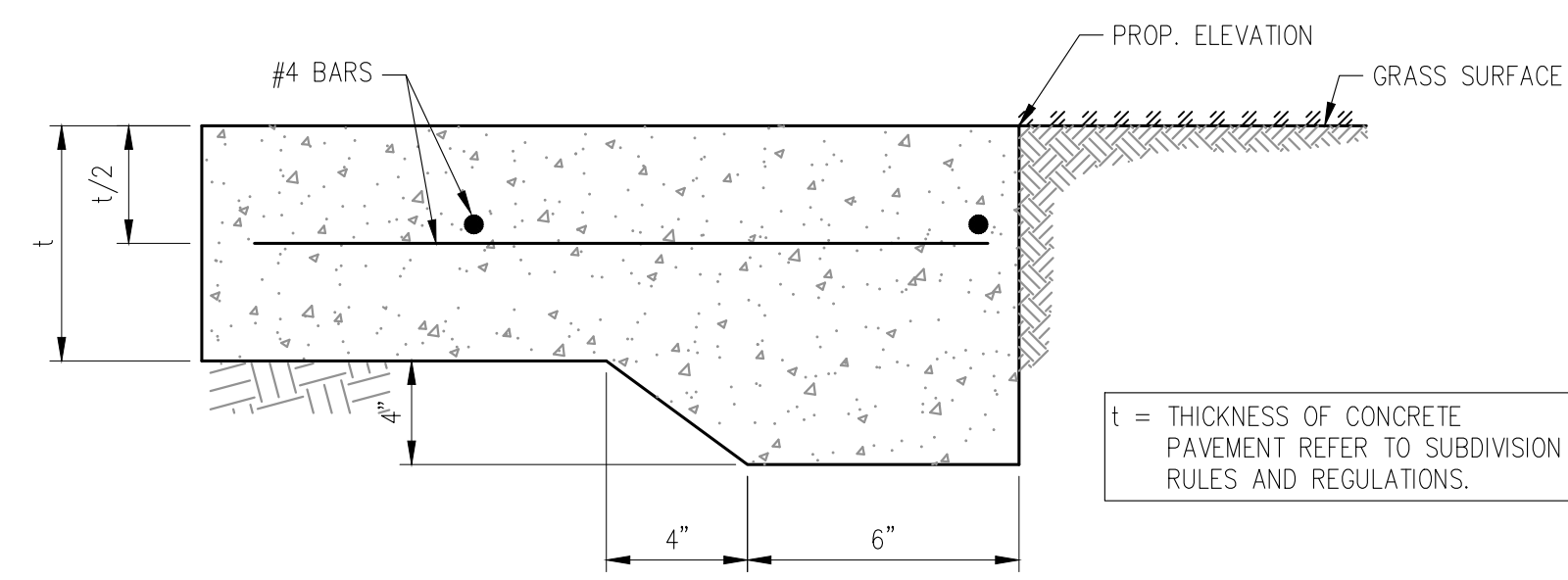


**EMBEDMENT, BACKFILL AND SURFACE RESTORATION NOTES**

1. PAVEMENT REPAIRS SHALL BE MADE WITH LIKE MATERIALS TO THE EXISTING PAVEMENT UNLESS OTHERWISE NOTED.
2. UNPAVED DRIVEWAYS (NOT SURFACED WITH ASPHALT) SHALL BE REPAIRED WITH A MINIMUM OF 6 INCHES OF CRUSHED LESTONE.
3. PAVEMENT REPAIR SHALL EXTEND A MINIMUM OF 12 INCHES OUTSIDE THE TRENCH LINE ONTO UNDISTURBED SOIL.
4. CONCRETE PAVEMENT REPAIR TO INCLUDE:
  - A. SAW CUT (1" DEPTH) EXISTING CONCRETE PAVEMENT
  - B. OUT AND BEND REINFORCEMENT STEEL OUT OF PATH OF TRENCH
  - C. COMPLETE PIE LAYING BACKFILL OPERATION.
  - D. BEND STEEL BACK TO ORIGINAL LOCATION, SPLICE AS NECESSARY. SEE TABLE FOR BAR SIZES AND LENGTH OF SPLICE BAR.
  - E. REPLACEMENT CONCRETE SHALL BE 2 INCHES THICKER THAN THE ORIGINAL PAVEMENT.
5. SEE SPECIFICATION ITEM 2221 FOR SPECIFIC REQUIREMENTS FOR ZONE MATERIALS.

**TABLE OF SLAB DEPTH & REINFORCEMENT**

Min. Depth of Slab	Width of Trench	Size of Bar	Spacing	Length of Bar
8"	18"	4	9"	40"
8"	24"	4	9"	46"
8"	30"	4	7"	52"
8"	36"	4	6"	58"
10"	42"	4	8 1/2"	64"
10"	48"	4	7 1/2"	70"
10"	54"	4	7"	76"
10"	60"	4	6 1/2"	82"
10"	66"	5	9"	88"
10"	72"	6	8 1/2"	94"
10"	78"	6	8"	100"
10"	84"	6	7 1/2"	106"



**CONCRETE TO GRASS STANDARD PAVING HEADER**  
N.T.S.

\* PIPE LESS THAN 30" MAX. 1'-6" + DIAMETER MIN. 1'-0" + DIAMETER  
 PIPE 30" AND LARGER MAX. 2'-0" + DIAMETER MIN. 1'-4" + DIAMETER  
 \*\* SLOPE FOR PAYMENT CALCULATIONS

**ZONE MATERIALS**  
 AS- AGGREGATE STONE (MAY BE USED INLIEU OF CS IF APPROVED BY ENGINEER).  
 BS- BANKSAND.  
 CS- CEMENT STABILIZED SAND.  
 EF- EARTH FILL (PLACED AFTER PIPE IS LAID)  
 ES- EARTH FILL SELECT (PLACED WITH PIPE LAYING).  
 TS- TOP SOIL.

PIPE MATERIAL	ZONE MATERIALS					
	A	B	C	D	E	F
CORRUGATED METAL PIPE	CS	CS	CS	EF	CS	TS
REINFORCED CONCRETE PIPE	CS	CS	CS	EF	CS	TS
DUCTILE IRON (PRESSURE PIPE)	BS	BS	BS	EF	CS	TS
DUCTILE IRON (GRAVITY PIPE)	CS	CS	CS	EF	CS	TS
PVC (PRESSURE PIPE)	BS	BS	BS	EF	CS	TS
PVC (GRAVITY PIPE)	CS	CS	CS	EF	CS	TS
STEEL	BS	BS	BS	EF	CS	TS

**EMBEDMENT, BACKFILL AND SURFACE RESTORATION**  
N.T.S.



**GALVESTON COUNTY BAYSIDE REGIONAL PARK**

**SIDEWALK DETAILS**

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