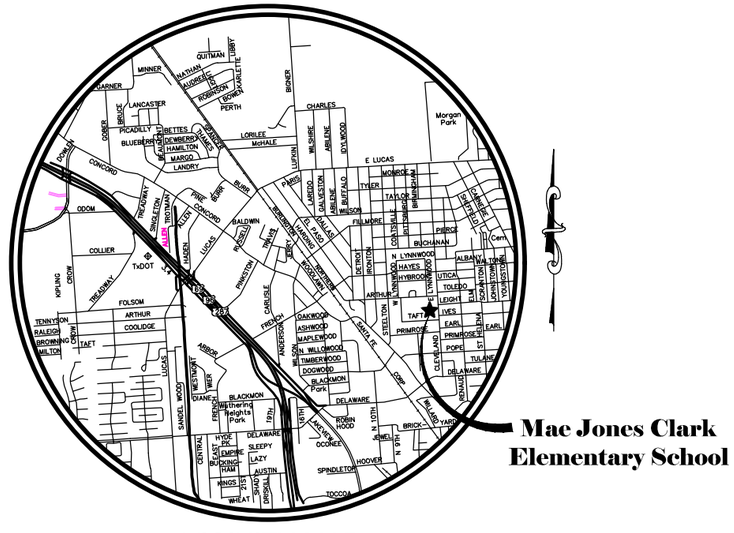
IMPROVEMENTS TO SERVE

Mae Jones Clark
Pavement
Repairs Package

Beaumont, Texas
Beaumont Independent School District



VICINITY MAP

STATE OF TEXAS
BERNARDINO D. TRISTAN
117017
LICENSED
PROFESSIONAL ENGINEER
Bernardino D. Tristan
Apr 08, 2024

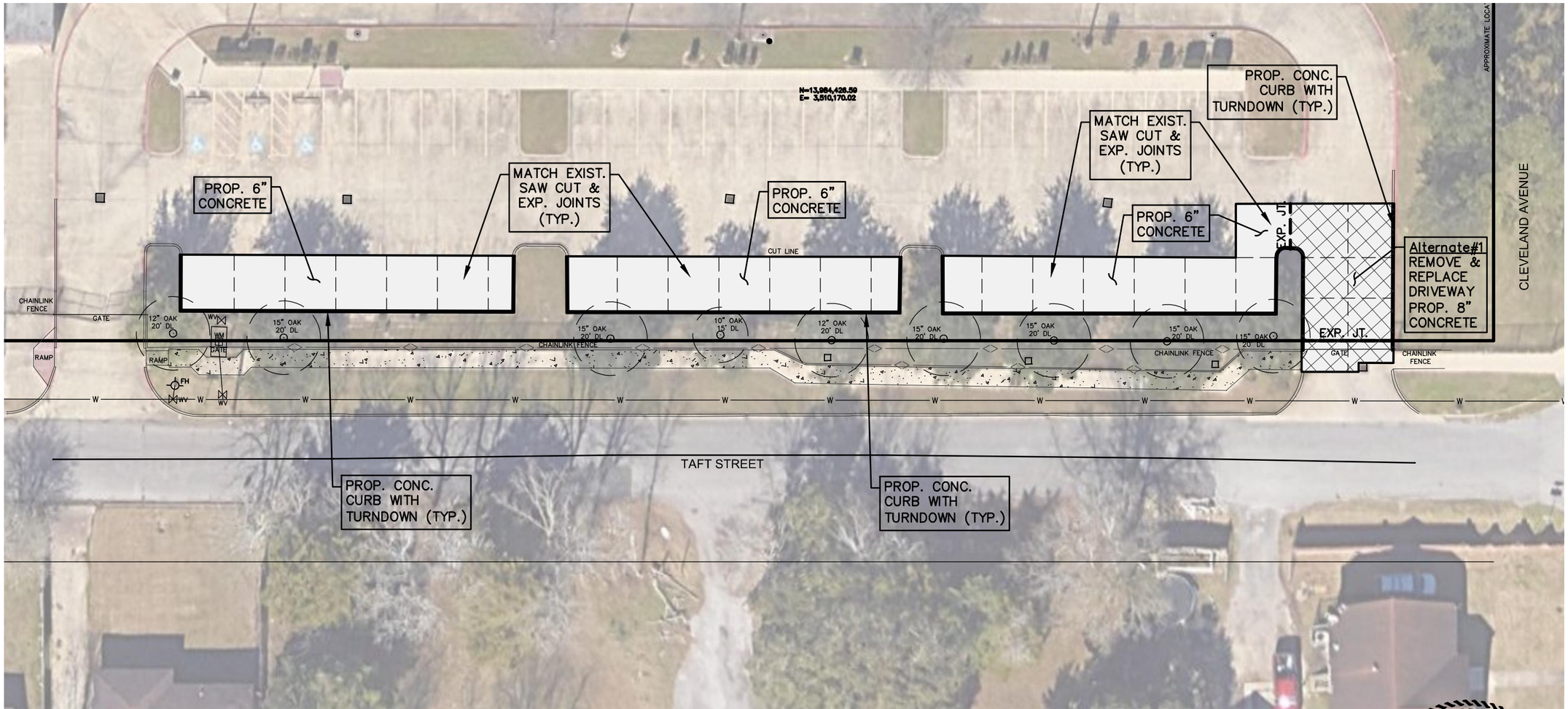
INDEX SHEETS

	COVER SHEET
C1.1	PAVEMENT PLAN
C2.1	DIMENSIONAL PLAN
C3.1	GRADING PLAN
C4.1	EROSION CONTROL PLAN
C4.2	EROSION CONTROL DETAILS
C5.1	SITE DETAILS & NOTES
C5.2	SITE DETAILS & NOTES
C5.3	SITE DETAILS & NOTES

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Scale 1" = 30'

LEGEND

- 5" CONCRETE PAVEMENT (SIDEWALK)
- 6" CONCRETE PAVEMENT
- 8" CONCRETE PAVEMENT
- SAWED CONTROL JOINT
- EJ — EXPANSION JOINT

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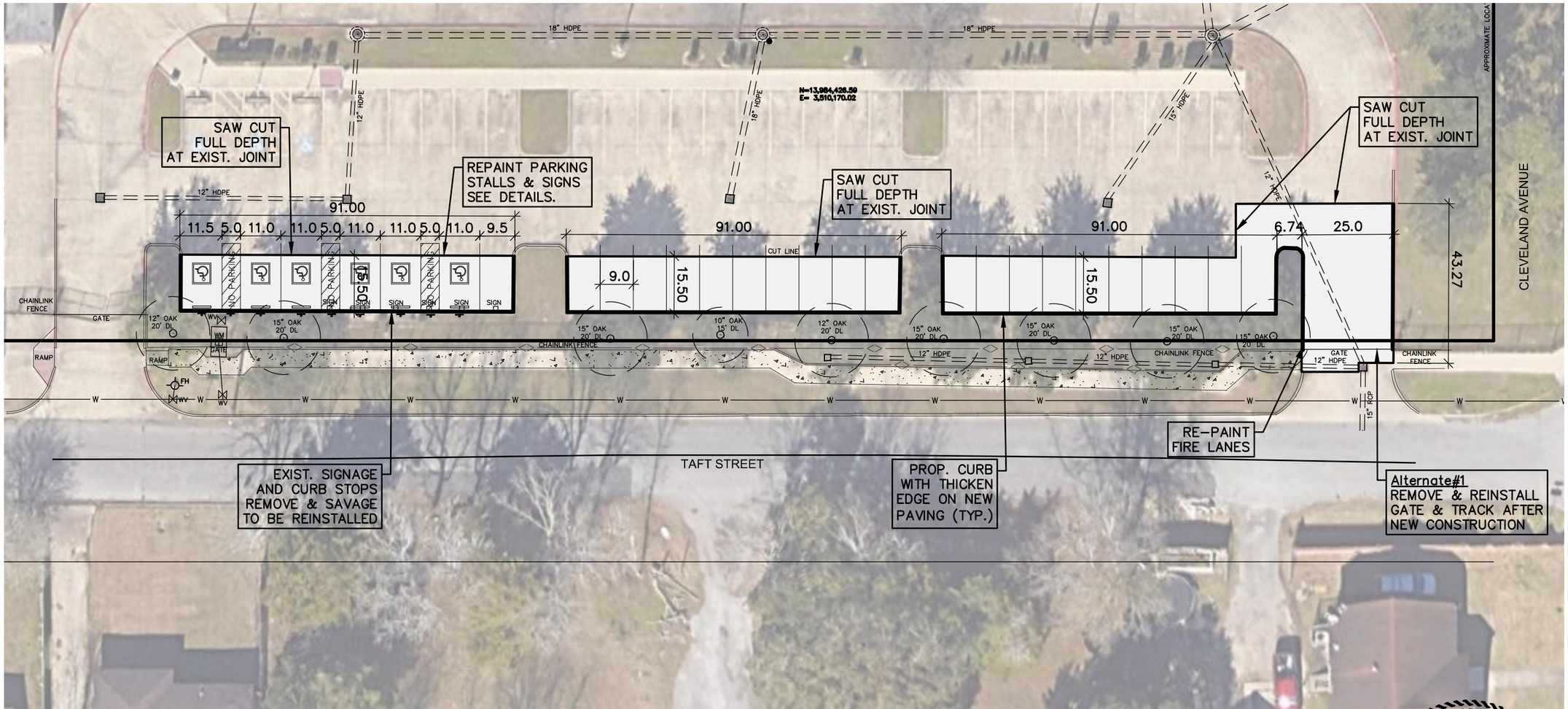
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PAVEMENT PLAN AND JOINT PATTERN PLAN

C1.1

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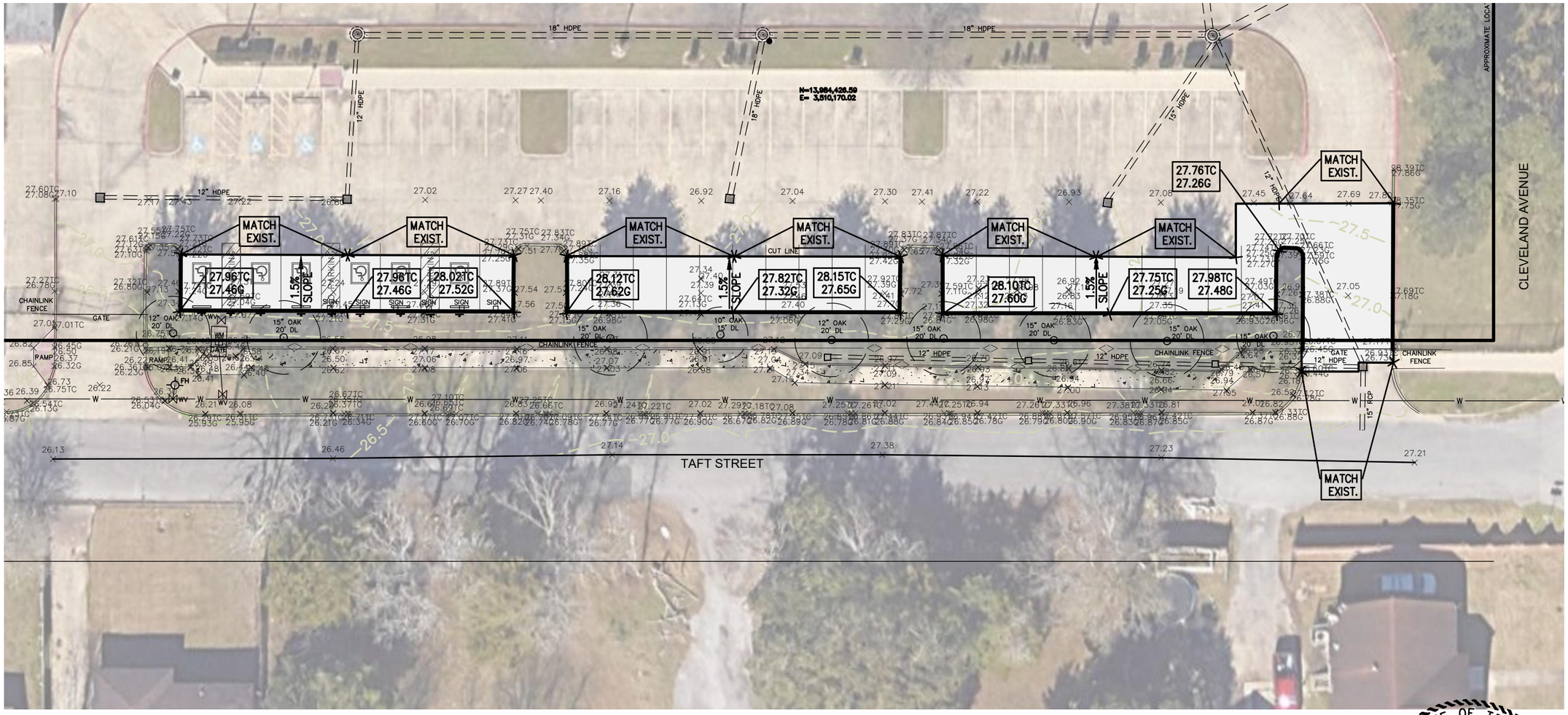
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DIMENSIONAL PLAN

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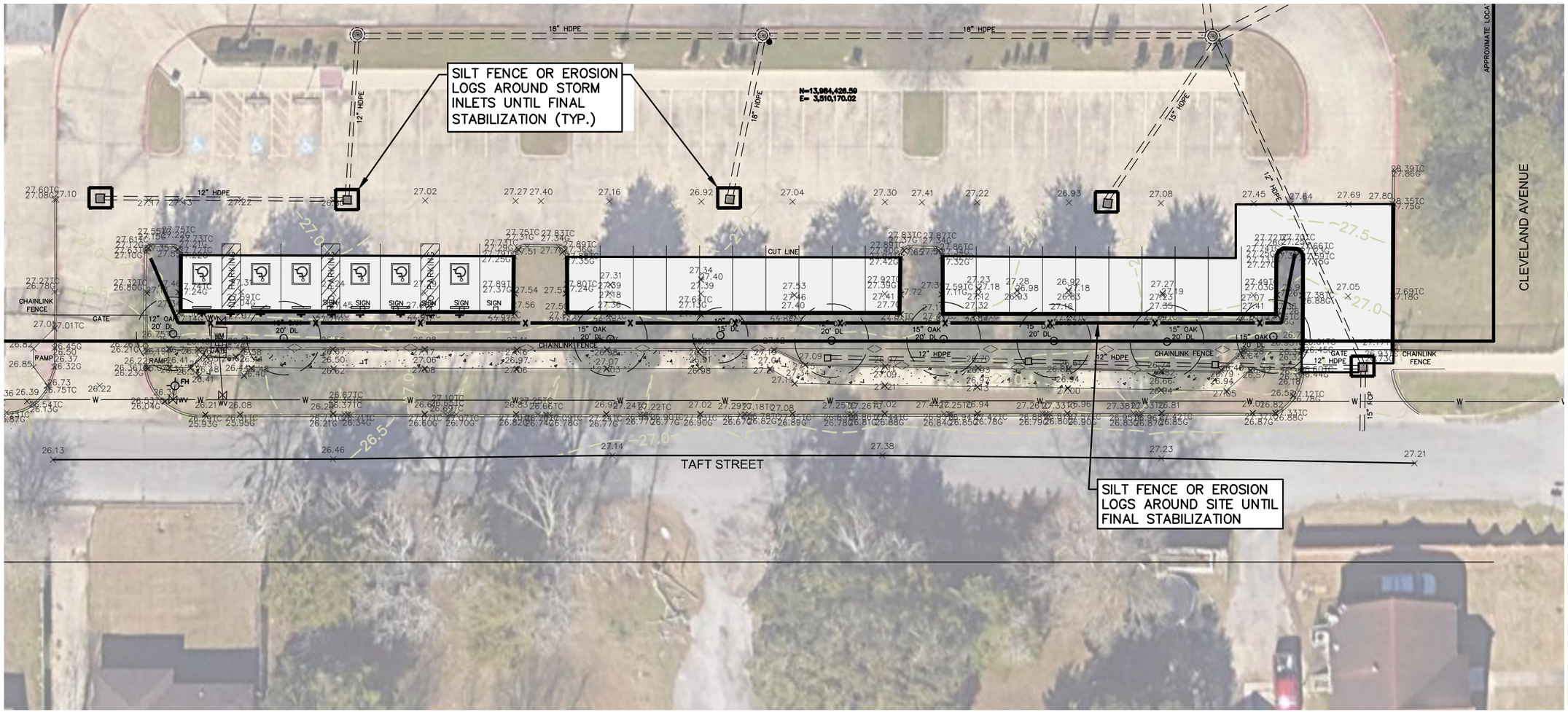
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GRADING PLAN

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Scale 1" = 30'

LEGEND

EROSION CONTROL LOGS

SEED OR SOD ALL DISTURBED AREAS.

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EROSION CONTROL PLAN

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EROSION CONTROL NOTES

1. CONTRACTOR SHALL DEVELOP A STORM WATER POLLUTION PREVENTION PLAN (SWP3) IN ACCORDANCE WITH TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) RULES FOR THE SITE. SWP3 PLAN SHALL BE BASED ON THIS DRAWING OR MODIFIED AS REQUIRED.

2. SWP3 SHALL CONTAIN:

   A. SITE DESCRIPTION OR PROJECT DESCRIPTION INCLUDING NATURE OF CONSTRUCTION ACTIVITY, POTENTIAL POLLUTANTS AND SOURCES
   B. DESCRIPTION OF INTENDED PROJECT SCHEDULE
   C. ACREAGE OF SITE
   D. DATA DESCRIBING SOIL OR QUALITY OF DISCHARGE FROM SITE
   E. GENERAL LOCATION MAP OF SITE
   F. DETAILED SITE MAP INDICATING DRAINAGE PATTERNS, PROPOSED CONTROLS.
   G. EROSION AND SEDIMENT CONTROLS SELECTED
   H. SOIL STABILIZATION METHODS

3. SWP3 PLAN SHALL DESCRIBE PRACTICES TO REDUCE POLLUTANTS IN STORM WATER DISCHARGE, DAILY/WEEKLY SITE INSPECTIONS AND LIST RESPONSIBLE PERSON.

4. CONTRACTOR SHALL SUBMIT A NOTICE OF INTENT (NOI) TO TCEQ PRIOR TO DISTURBANCE OF THE SITE.

5. SWP3 PLAN MUST BE RETAINED AT THE CONSTRUCTION SITE AND MADE AVAILABLE TO CITY AND TCEQ INSPECTORS.

6. CONTRACTOR SHALL INSTALL EROSION CONTROL DEVICES INDICATED ON THIS PLAN AND SWP3 PLAN PRIOR TO CONSTRUCTION AT SITE.

7 CONTRACTOR SHALL PERFORM PERIODIC MAINTENANCE AND REPAIR AND/OR REPLACE DEVICES WHEN REQUIRED TO CONTAIN SEDIMENTS AND POLLUTANTS ON THE SITE UNTIL CONSTRUCTION IS COMPLETE AND SITE HAS REACHED FINAL STABILIZATION.

8. CONTRACTOR SHALL SUBMIT A NOTICE OF TERMINATION (NOT) TO TCEQ ONCE CONSTRUCTION IS COMPLETE AND SITE HAS REACHED FINAL STABILIZATION.

9. ALL CITY STREETS SHALL BE KEPT FREE OF ALL CONSTRUCTION MATERIALS AND SHALL BE CLEANED AT THE END OF EACH WORK DAY.

TEMPORARY EROSION AND SEDIMENTATION CONTROL (TESC)

1. THE IMPLEMENTATION OF THESE TESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE TESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/TESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.

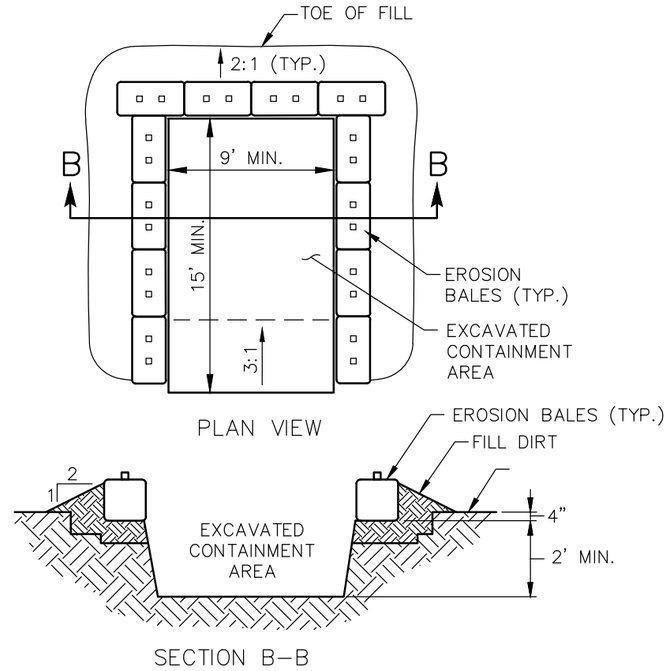
2. THE TESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.

3. THE TESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE TESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).

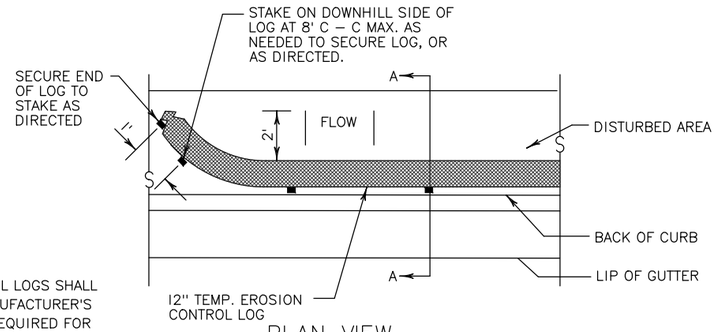
4. THE TESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/TESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING.

5. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED TESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).

6. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY.



Concrete Washout Structure



1. 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 60' FOR 18" DIAMETER OR 30' FOR 12" DIAMETER LOGS.
2. UNLESS OTHERWISE DIRECTED, USE BIODEGRADABLE OR PHOTODEGRADABLE CONTAINMENT MESH ONLY WHERE LOG WILL REMAIN IN PLACE AS PART OF A VEGETATIVE SYSTEM. FOR TEMPORARY INSTALLATIONS, USE RECYCLABLE CONTAINMENT MESH.
3. STUFF LOGS WITH SUFFICIENT FILTER MATERIAL TO ACHIEVE DENSITY THAT WILL HOLD SHAPE WITHOUT EXCESSIVE DEFORMATION.
4. STAKES SHALL BE 2" X 2" WOOD OR #3 REBAR, 4' LONG, EMBEDDED SUCH THAT 2" PROTRUDES ABOVE LOG, OR AS DIRECTED.
5. DO NOT PLACE STAKES THROUGH CONTAINMENT MESH.

Log Placed at Edge of Pavement

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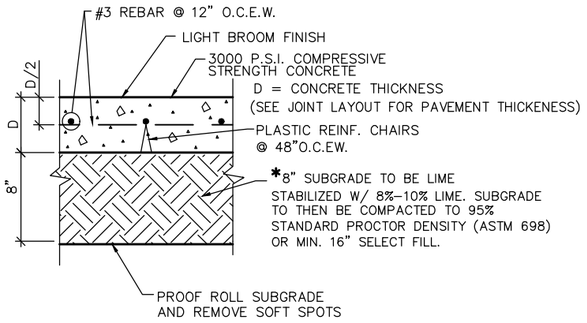
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EROSION CONTROL DETAILS

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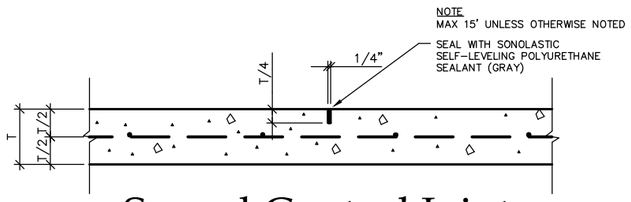
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*NOTE:
IT IS RECOMMENDED THAT THE SUBGRADE BENEATH THE CONCRETE PAVEMENT BE STABLIZED BY HYDRATED LIME IF THE HEIGHT OF SELECT FILL IS LESS THAN 12". SUBGRADE SHALL EXTEND 12" BEYOND EDGE OF PAVEMENT.

Concrete Pavement

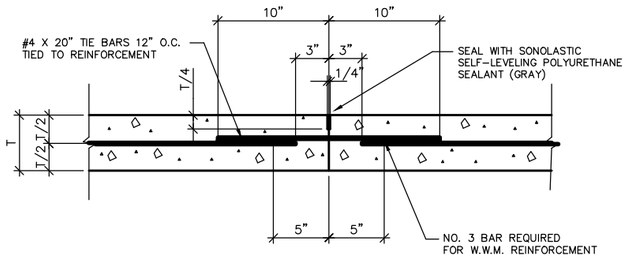
1



Sawed Control Joint

(SPACING 12' TO 15' EVENLY SPACED)

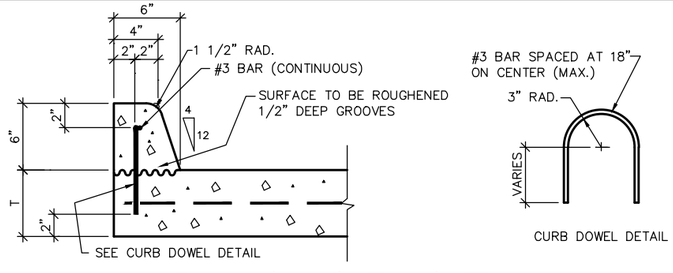
2



Construction Joint

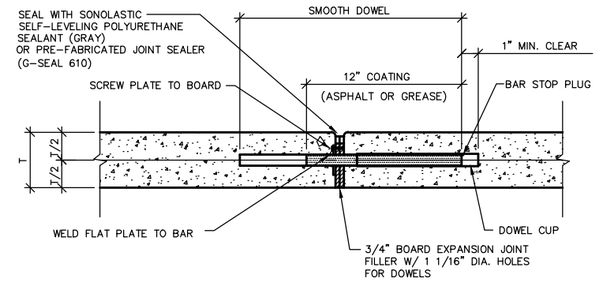
LOCATION TO BE REVIEWED BY ENGINEER

3



Standard Curb For Reinforced Concrete Pavement

4



NOTE:
1) EXPANSION JOINT SHALL BE ANCHORED IN PLACE TO PREVENT MOVEMENT DURING PLACEMENT OF CONCRETE.

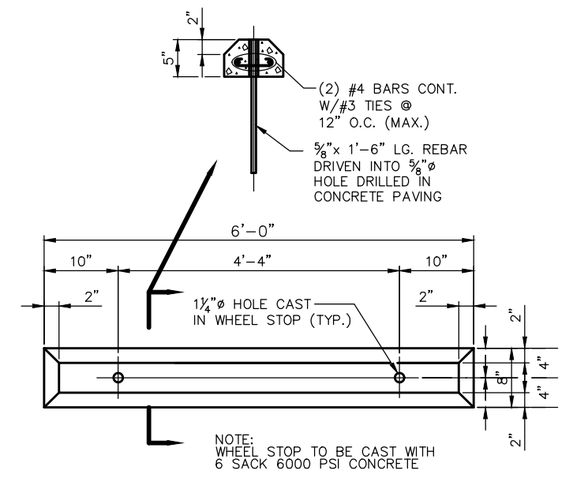
2) IF PREFABRICATED EXPANSION JOINT SEALER IS USED, STAPLE TO FILLER BOARD PER MANUFACTURER RECOMMENDATIONS.

DOWEL INFORMATION

CONC. THICKNESS	DOWEL DIAMETER	DOWEL LENGTH	DOWEL SPACING
5"/6"	3/4"	18"	18"
7"/8"	1"	18"	24"

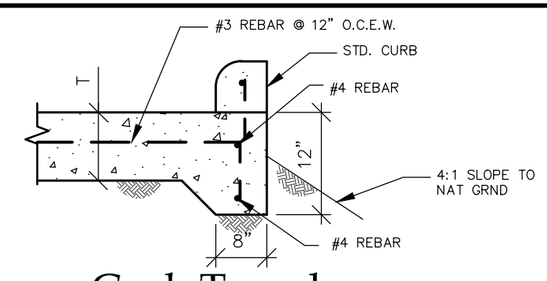
Expansion Joint Detail Bar With Flat Plate

5



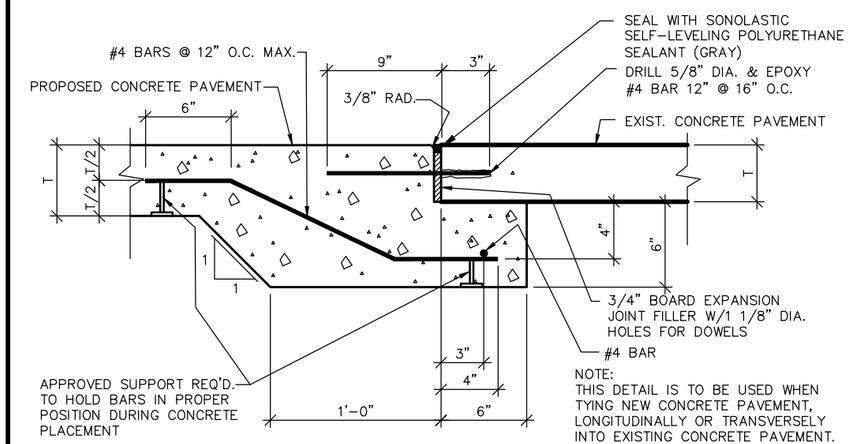
Typical Precast Concrete Wheel Stops

6



Curb Turndown Pavement Edge

7

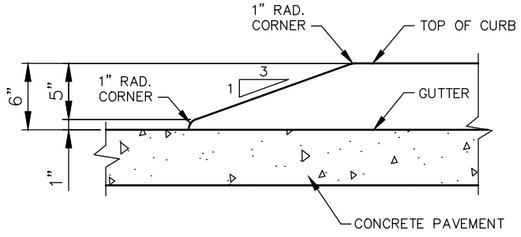


NOTE:
THIS DETAIL IS TO BE USED WHEN TYING NEW CONCRETE PAVEMENT, LONGITUDINALLY OR TRANSVERSELY INTO EXISTING CONCRETE PAVEMENT.

Pavement Transition

(NEW CONCRETE TO EXIST. CONCRETE)

8



Curb Termination Detail

8

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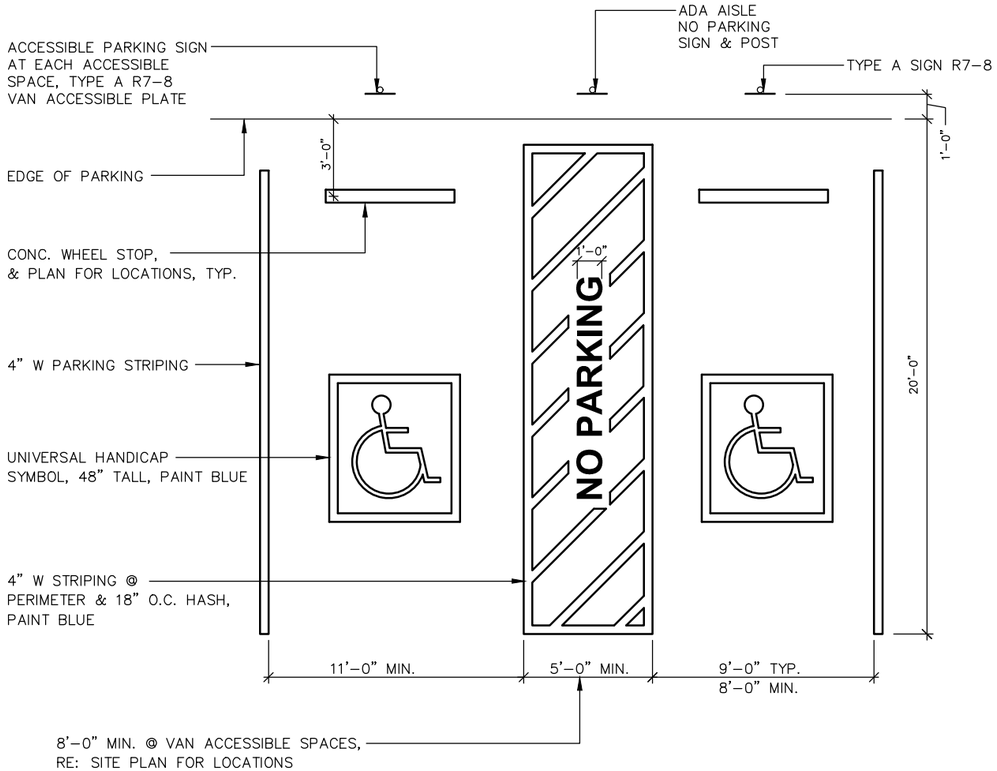
SITE DETAILS

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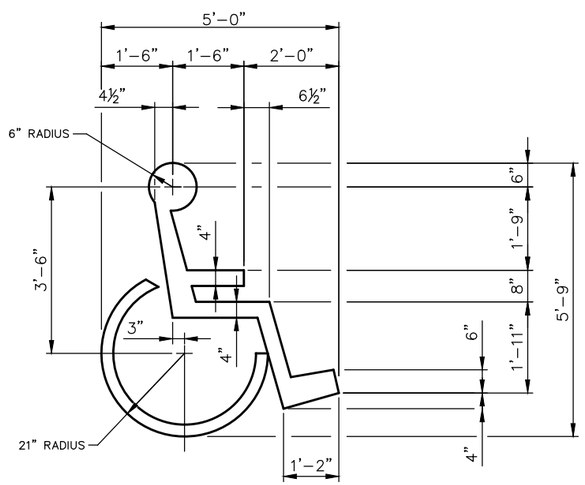


NOTES:
1. ALL PARKING SPACE LIMIT LINES SHOULD BE SOLID WHITE 4" OR 6" WIDE
2. AISLE MARKINGS SHOWN ARE EXAMPLES ONLY. OTHER METHODS TO INDICATE A NO PARKING AREA ARE ACCEPTABLE

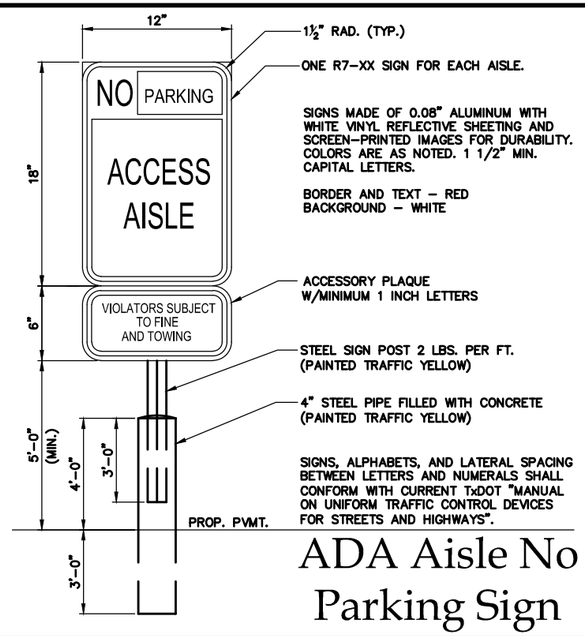
NOTE
THIS DETAIL ILLUSTRATES GENERIC STRIPING/ SINGNAGE @ ACCESSIBLE PARKING SPACES, RE: SITE PLAN FOR LOCATION & CONFIGURATION

ACCESS AISLE WORDING NOTES:
1. "NO PARKING" ALL CAPITAL LETTERS
2. MIN. 12" HEIGHT LETTERS, 2" STROKE WIDTH
3. CENTER TEXT IN AISLE

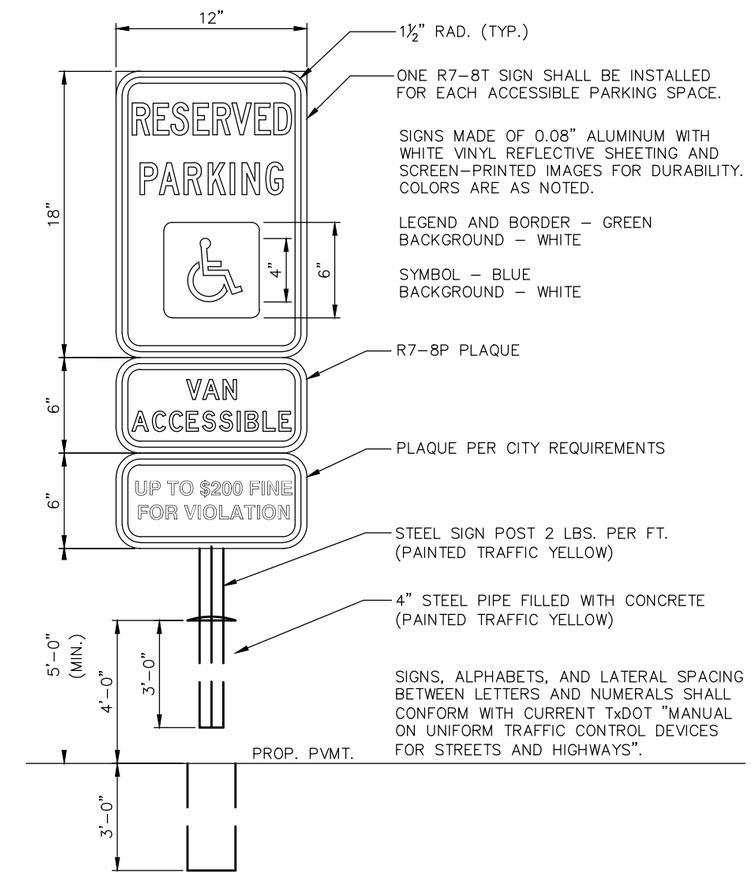
Typical Handicapped Parking Space Dimensions 1



Handicap Parking Emblem 2



ADA Aisle No Parking Sign 3



Handicap Parking Sign 4

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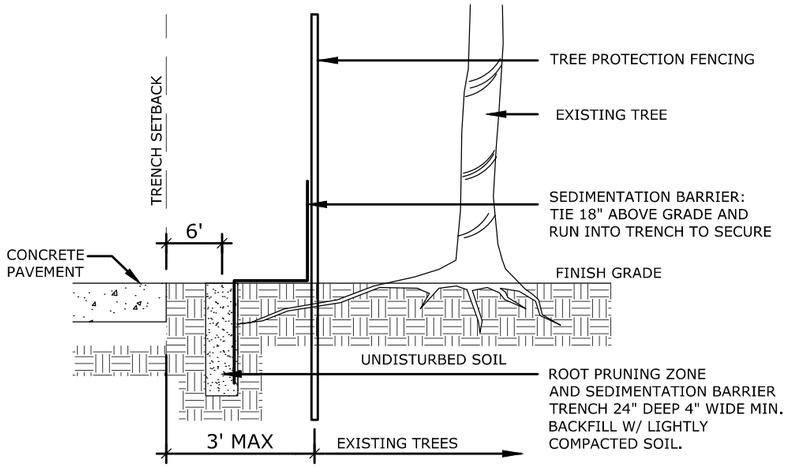
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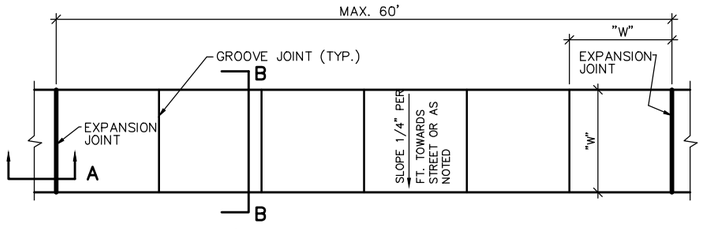
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Root Pruning, Tree Protection and Erosion Control Fencing

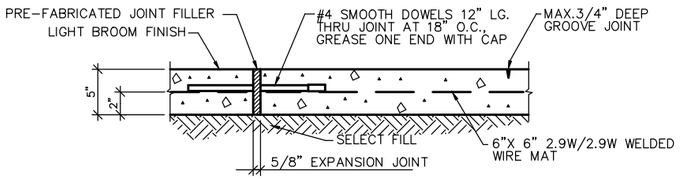
TREE PROTECTION NOTES: (within 10ft of construction)

1. IT IS CRUCIAL THAT TREE PROTECTION FENCE MUST BE ERECTED PRIOR TO ANY SITE DEMOLITION BEGIN.
2. TREE PROTECTION FENCE SHALL BE A MIN. 5'-0' HIGH CHAIN LINK FENCE MOUNTED ON VERTICAL PIPES DRIVEN 2'-0" MIN. INTO THE GROUND, AT APPROX. 6'-8' O.C. REFER TO DETAILS FOR LOCATIONS
3. PROTECTION FENCE SHALL BE PLACED AROUND CRITICAL ROOT ZONE OF ALL TREES TO BE RETAINED.
4. UPON APPROVAL BY OWNER OR LANDSCAPE ARCHITECT. OTHER FENCING MATERIAL MAY BE USED IN LIEU OF CHAIN LINK FENCE. SUCH AS:
   A. T-POSTS AT 8'-0" O.C. W/ 4' HT. BRIGHT ORANGE, LIGHT WEIGHT, REUSABLE MESH SAFETY FENCING MADE OF HIGH DENSITY POLYETHYLENE WITH 1 1/2" X 3" SIZE MESH OR SIMILAR MATERIAL.
   B. WOOD BARRICADES WHICH INCLUDED INSTALLING 2 X 4 AS POST AT 4' ABOVE GROUND AT EVERY 6' O.C. WITH (3) -2 X 4 RAILS MINIMUM.
5. UNDER NO CIRCUMSTANCES, DO NOT DRIVE OR PARK MACHINERY ON TREE ROOTS OR UNDER THE DRIPLINE.
6. AVOID DISTURBING ROOTS IN CRITICAL ROOT ZONE. IF ROOT CUTTING IS NECESSARY OR ANY DAMAGED ROOTS OCCURRED, THEY SHALL BE CUT CLEANLY WITH AN AXE A FEW INCHES CLOSER TO THE TRUNK. ANY COVERED/EXPOSED OR PRUNED TREE ROOTS MUST BE COVERED IMMEDIATELY WITH DIRT AND MULCH TO PREVENT ROOTS FROM DRYING OUT.
7. NO STORAGE OR CONCRETE DUMPING IS PERMITTED ON TREE ROOTS AND/OR UNDER DRIPLINE.
8. NO BUILDING MATERIALS ARE TO BE STACKED OR STOCKPILED WITHIN THE DRIP LINE OR WITHIN 6 FEET OF ANY TREE TO BE PRESERVED, WHICHEVER IS GREATER.
9. TOPSOIL SHALL NOT BE STOCKPILED WITHIN THE DRIP LINE OR WITHIN 6 FEET OF ANY TREE TO BE PRESERVED, WHICHEVER IS GREATER.
10. TREE BOARDING SHALL BE USED IS WORK IS REQUIRED WITH IN FENCING.
11. AVOID DISTURBING ROOTS IN CRITICAL ROOT ZONE. ANY DAMAGED ROOTS SHALL BE CUT CLEANLY WITH AN AXE A FEW INCHES CLOSER TO THE TRUNK.
12. ANY UNCOVERED/EXPOSED TREE ROOTS SHALL BE IMMEDIATELY COVERED WITH MULCH.
13. ANY UNDERSTORY CLEARING WITHIN SIX FEET OF EXISTING TREE TRUNKS SHOULD BE DONE BY HAND.

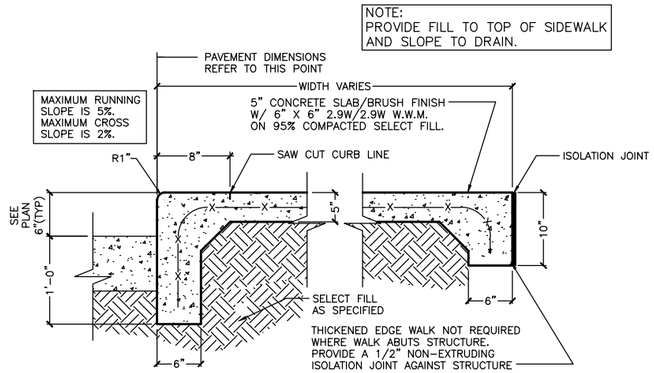


NOTE 1.) EXPANSION JOINT IF ADJACENT TO CURB
2.) "W"= MINIMUM OF 5' IF WITHIN 1'-0" OF CURB
3.) MINIMUM "W" = 4'-0"
4.) MAX. LONGITUDINAL SLOPE = 5%

PLAN



SECTION A-A



SECTION B-B

Sidewalk Detail

(FOR SIDEWALK REPAIRS)

STATE OF TEXAS
BERNARDINO D. TRISTAN
117017
LICENSED
PROFESSIONAL ENGINEER
Apr 08, 2024

GENERAL NOTES

1. THE COST OF CONSTRUCTION FOR ALL WORK SHOWN IN THE PLANS AND SPECIFICATIONS SHALL BE INCLUDED IN THE PROPOSAL AS A LUMP SUM IN THE PAY ITEM FOR WHICH IT IS A COMPONENT PART.
2. CONTRACTOR SHALL SUBMIT PROPOSED TRENCH SAFETY PLAN IN ACCORDANCE WITH REQUIREMENTS OUTLINED IN THE TECHNICAL SPECIFICATIONS.
3. INCLUDE PRICE OF ALL BEDDING OF STANDARD TYPE REQUIRED FOR UTILITY LINES IN PRICE PROPOSAL IN THE LUMP SUM.
4. CONTRACTOR SHALL NOTIFY PORT ARTHUR INDEPENDENT SCHOOL DISTRICT, JEFFERSON COUNTY, AND WATER UTILITIES DEPARTMENT 48 HOURS PRIOR TO BEGINNING CONSTRUCTION IN R.O.W. OR EASEMENTS.
5. ADEQUATE DRAINAGE THROUGHOUT THE LIMITS OF THE PROJECT SHALL BE MAINTAINED BY THE CONTRACTOR AT ALL TIMES.
6. DURING THE PROSECUTION OF THE WORK, UTMOST CARE SHALL BE EXERCISED TO PREVENT DAMAGE TO ANY UTILITIES, STRUCTURES, OR RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITY LINES. IF ANY UNDERGROUND UTILITIES ARE ENCOUNTERED AND ARE IN CONFLICT WITH THE CONTRACTOR'S OPERATION, HE SHALL NOTIFY THE ENGINEER WHO WILL RECOMMEND ANY NECESSARY ADJUSTMENTS.
7. CONTRACTOR SHALL CONTROL CONSTRUCTION ACTIVITIES TO MINIMIZE DUST AND SEDIMENTS. CONTRACTOR SHALL SUBMIT PLAN FOR CONTROL OF EROSION AND SHALL PROVIDE TEMPORARY EROSION CONTROL DEVICES DURING THE COURSE OF THE PROJECT. 8. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING FACILITIES AND UTILITY LINES PRIOR TO CONSTRUCTION OF PROPOSED FACILITIES – NO SEPARATE PAY. IN THE EVENT OF UTILITY CONFLICTS, THE CONTRACTOR SHALL NOTIFY THE AFFECTED UTILITY COMPANY.

   TEXAS 811
   (800) DIG-TESS
   (800) 344-8377
   (Texas Excavation Safety System)
   www.TEXAS811.org

9. UPON COMPLETION OF THE PROJECT, THE SITE SHALL BE CLEANED OF ALL DEBRIS AND LEFT IN A NEAT AND PRESENTABLE CONDITION. THIS WORK WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE SUBSIDIARY TO THE VARIOUS BID ITEMS.
10. CONTRACTOR SHALL SPREAD SURPLUS EXCAVATED MATERIAL ON SITE. FILL SHALL BE PLACED IN A MANNER THAT WILL MAINTAIN UNINTERRUPTED DRAINAGE OF THE SITE AND ADJACENT AREA. OBJECTIONABLE MATERIAL TO BECOME PROPERTY OF CONTRACTOR AND REMOVED FROM JOB SITE AT HIS EXPENSE.
11. CONTRACTOR SHALL INCLUDE BACKFILL BEHIND CURB AND PROVIDE TOPSOIL AND SODDING FOR AREAS DISTURBED. AREA FOR PAYMENT SHALL BE LIMITED TO ACTUAL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES.
12. CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS IN AREA. 13. CONTRACTOR SHALL ADJUST EXIST. WATERLINES & GAS LINES INTERFERING WITH STORM SEWER, OR SANITARY SEWER INSTALLATION.
14. CONTRACTOR SHALL REMOVE OLD FOOTINGS OR OTHER FOUNDATIONS ASSOCIATED WITH A PREVIOUSLY REMOVED STRUCTURES FOR THE CONSTRUCTION OF PROPOSED FACILITIES.
15. THE REMOVAL OR ADJUSTMENT OF ANY UTILITIES ENCOUNTERED DURING THE CONSTRUCTION SHALL BE VERIFIED WITH P.A.I.S.D. PERSONNEL OR THE CITY OF PORT ARTHUR PERSONNEL.
16. EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATIONS AS NECESSARY.
17. CONTRACTOR IS RESPONSIBLE FOR ALL TIME AND EQUIPMENT NECESSARY FOR DEWATERING TRENCHES, EXCAVATIONS, AND OTHER GENERAL WORK AREAS.

PAVING & DRAINAGE

1. SCARIFY SUBGRADE TO A DEPTH OF 8 INCHES AND STABILIZE WITH 8%-10% HYDRATED LIME. COMPACT TO 95% STD PROCTOR DENSITY ASTM D-698 IN ACCORDANCE WITH TXDOT ITEM 260. CONTRACTOR TO PERFORM SOIL DENSITY TESTING FOR ALL ROADWAYS AND BACKFILLING DRAINAGE DITCH AT 8" LIFTS. ALL TESTING TO BE AT CONTRACTORS EXPENSE.
2. ALL CONCRETE FOR PAVING TO BE 3500 PSI COMPRESSIVE STRENGTH @ 28 DAYS. SAWING OF JOINTS SHALL BEGIN AS SOON AS WORKABLE AND SHALL BE COMPLETED BEFORE 24 HOURS HAVE ELAPSED. ANY RANDOM CRACKING OF THE PAVEMENT DUE TO INCOMPLETE SAWING OPERATIONS SHALL REQUIRE THE REMOVAL AND REPLACEMENT OF THE DAMAGED SECTION AT THE CONTRACTOR'S EXPENSE. BEAM SAMPLES SHALL BE MADE FOR CONCRETE PAVEMENT TESTING.
3. STEEL REINFORCEMENT FOR PAVEMENT SHALL BE GRADE 60 STEEL #3 REBAR @ 12" O.C.E.W. WITH PLASTIC REINF. SUPPORTS @ 48" O.C.E.W.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION OF CONCRETE PAVEMENTS TO PROPER THICKNESS AS PROVIDED IN THE CONSTRUCTION PLANS AND SPECIFICATIONS. INSPECTION OF FORMS AND GRADING WILL BE CONDUCTED PRIOR TO PLACEMENT OF CONCRETE AND RANDOM CORE SAMPLES WILL BE CONDUCTED AFTER COMPLETION PER SPECIFICATIONS TO MEASURE THICKNESS. CONTRACTOR WILL HAVE ULTIMATE RESPONSIBILITY FOR PROPER CONCRETE PAVEMENTS.
5. EXPANSION JOINTS TO BE PLACED @ ALL RADIUS RETURNS AND WHEN TYING INTO EXISTING PAVEMENTS.

NO.	ISSUED FOR	DATE
1	Bids & Permit	04/08/2024

Fittz & Shipman INC.
Consulting Engineers and Land Surveyors
1405 Cornerstone Court Beaumont, TX. 77706
Ph. (409) 832-7238 Fax. (409) 832-7303
www.fittzshipman.com
T.B.P.E. Firm #1160 T.X.L.S. Firm #100186

Jones Clark ES
Pavement Repairs
Beaumont ISD

FS PROJECT # 24040.0000
DATE: Apr 08, 2024
SCALE: AS NOTED
DRAWN BY: JMc
CHECK BY: BDT
FS DRAWING NAME: 24040_CE_SITE_01

SITE DETAILS

C5.3

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