

FAX 972-717-2176 IRVING, TEXAS 75062

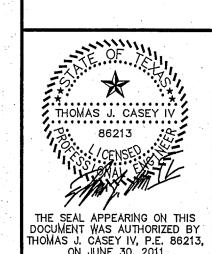
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T.B.P.E. FIRM

T.B.P.E. FIR #F-303

PARKING ADDITIONS

OVER SHEET



## Issue Dates: Review: Bid March 7, 2011 1 Revised Grading & HC Parking May 2, 2011

Parking May 2, 2011
Re-Bid May 11, 2011
Town Comments,
June 7, 2011
Town Comments #2,
Removed Loop Road
June 30, 2011

Construction:

Scale:	AS NOTED
Drawn By:	TJC
Checked By:	СМА
Project No.:	10 - 599.150
Sheet	1

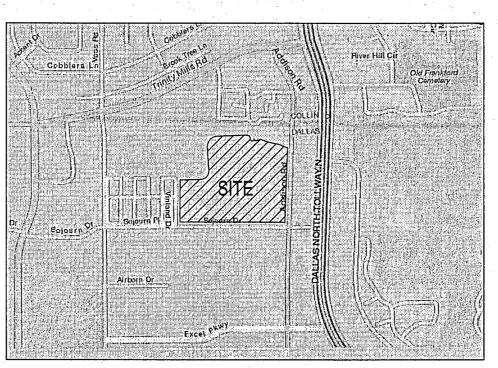
CONSTRUCTION PLANS
FOR

# TRINITY CHRISTIAN ACADEMY PARKING ADDITIONS

17001 ADDISON ROAD TOWN OF ADDISON, TEXAS PW #2006-13

### **GENERAL NOTE:**

CONTRACTOR TO UTILIZE CITY APPROVED CONSTRUCTION PLANS FOR CONSTRUCTION OF ALL CIVIL RELATED FACILITIES. CONTRACTOR TO NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF ANY COST DISCREPANCIES BETWEEN THE CITY APPROVED SET AND BID SET WITH LATEST ADDENDUMS.



LOCATION MAP

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TXDOT BFR DETAILS - SHEET



105 DECKER COURT, SUITE 910

ENGINEER:

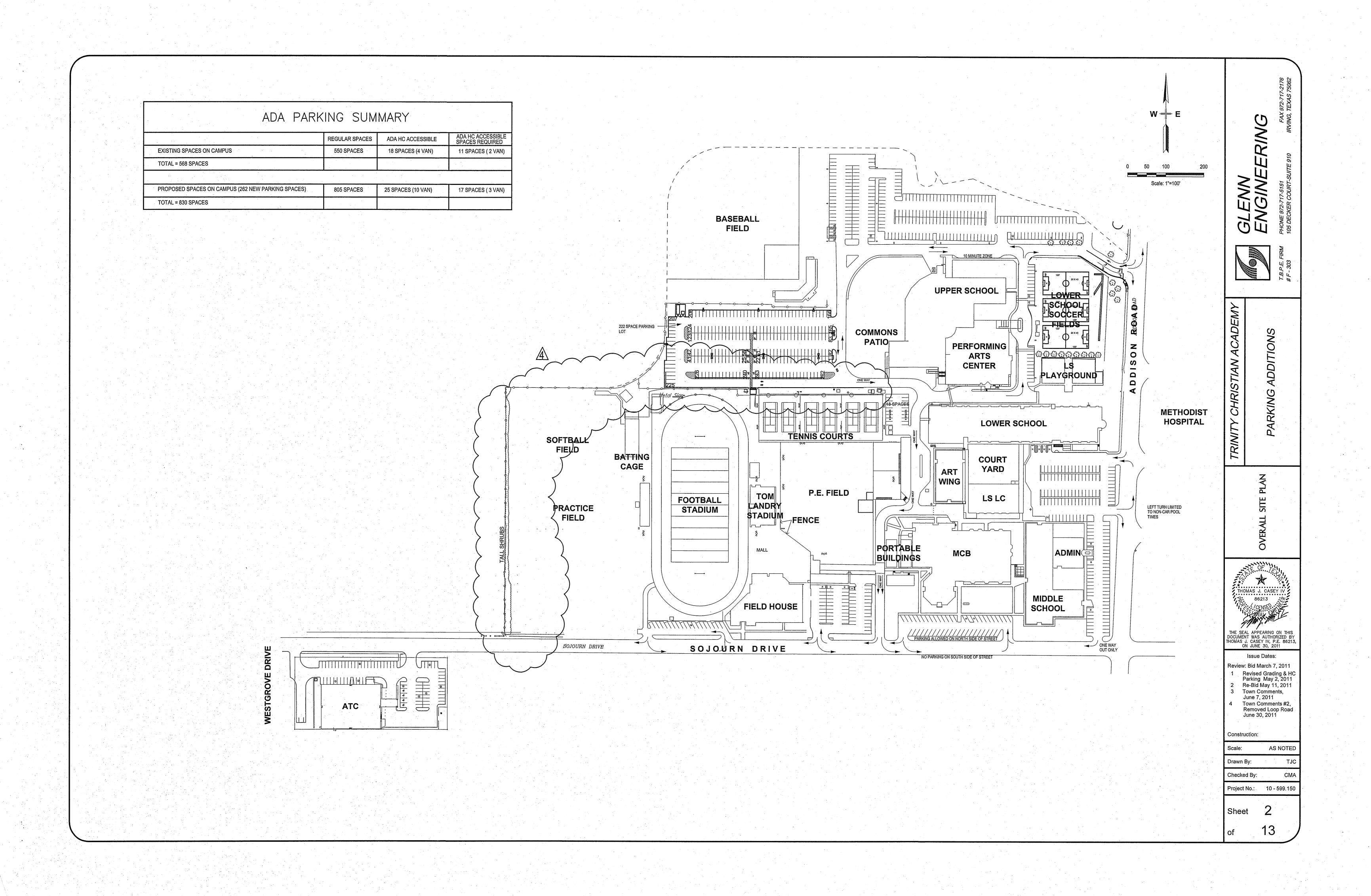
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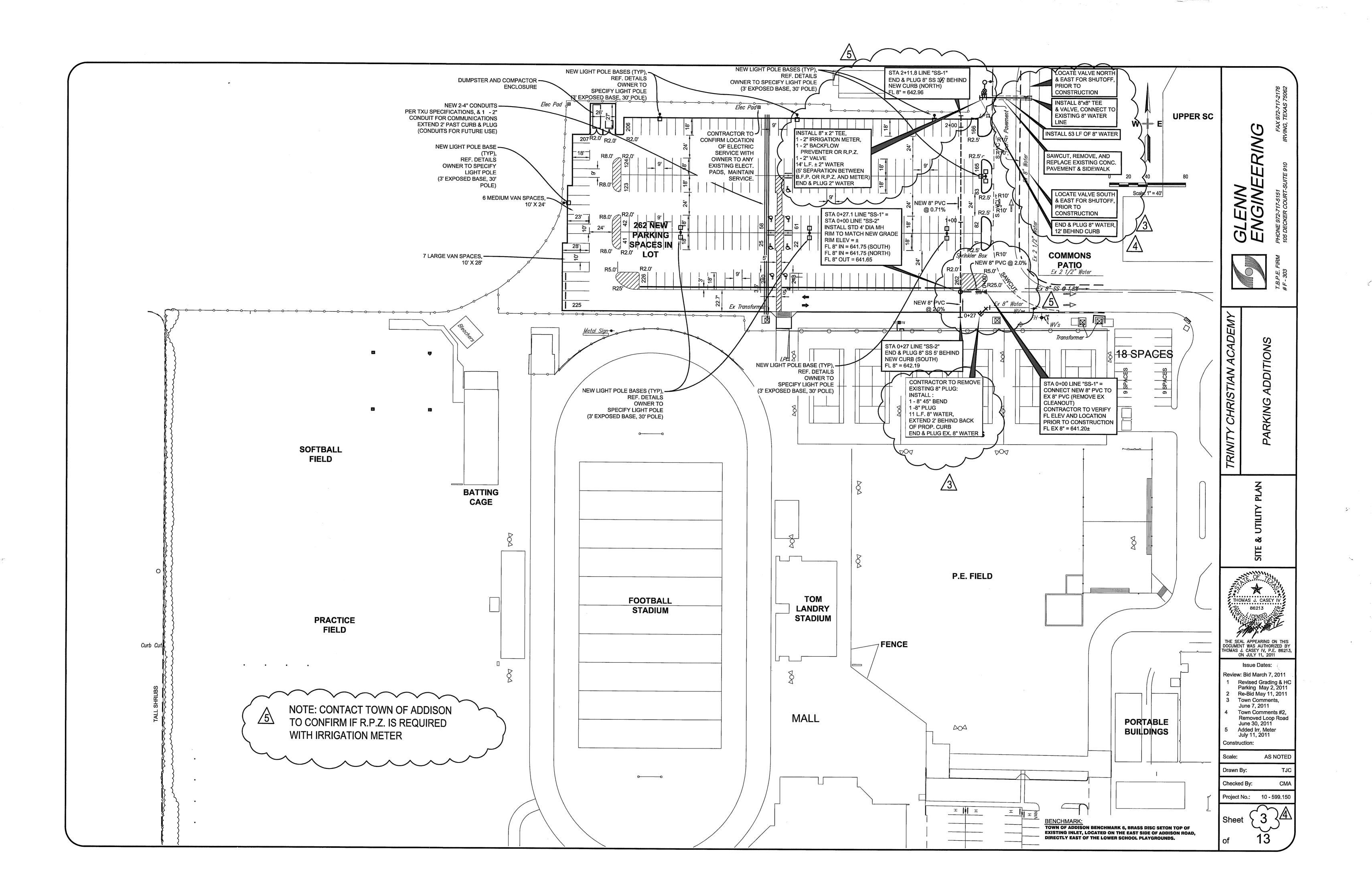
#### Trinity Christian Academy 17001 Addison Road Addison, Texas 75001-509

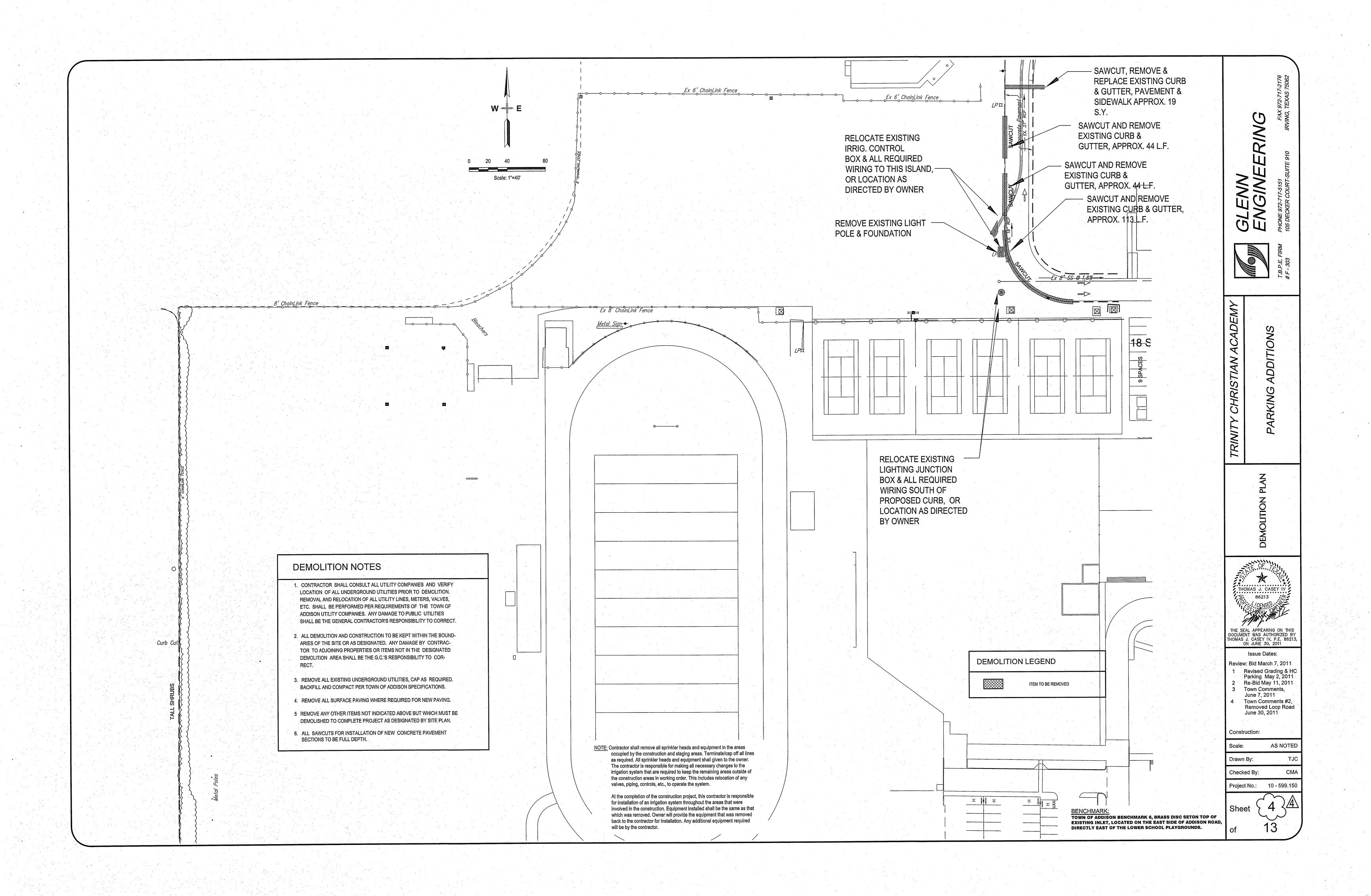
OWNER:

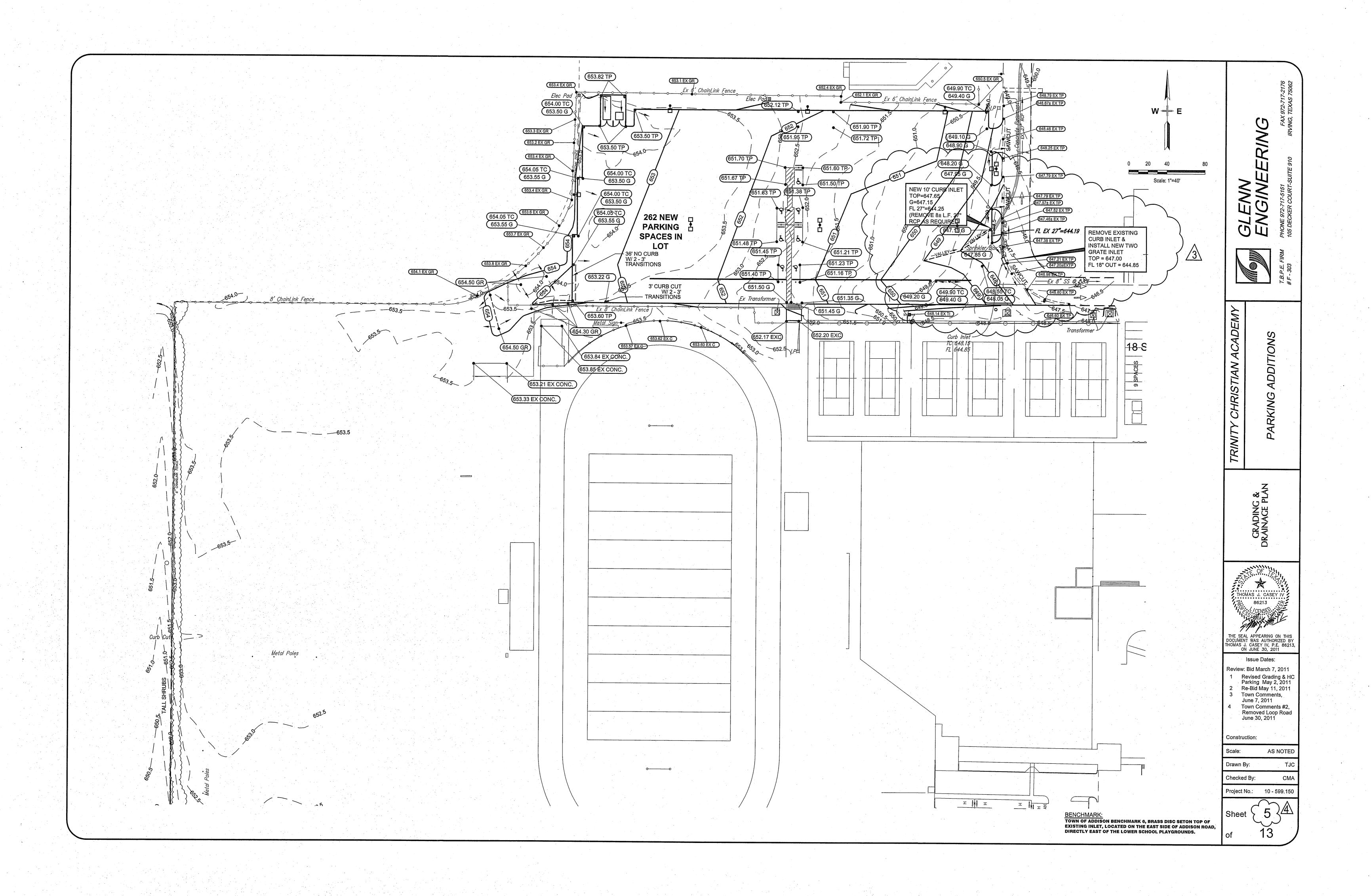
Addison, Texas 75001-5096 Phone: (972) 931-8325

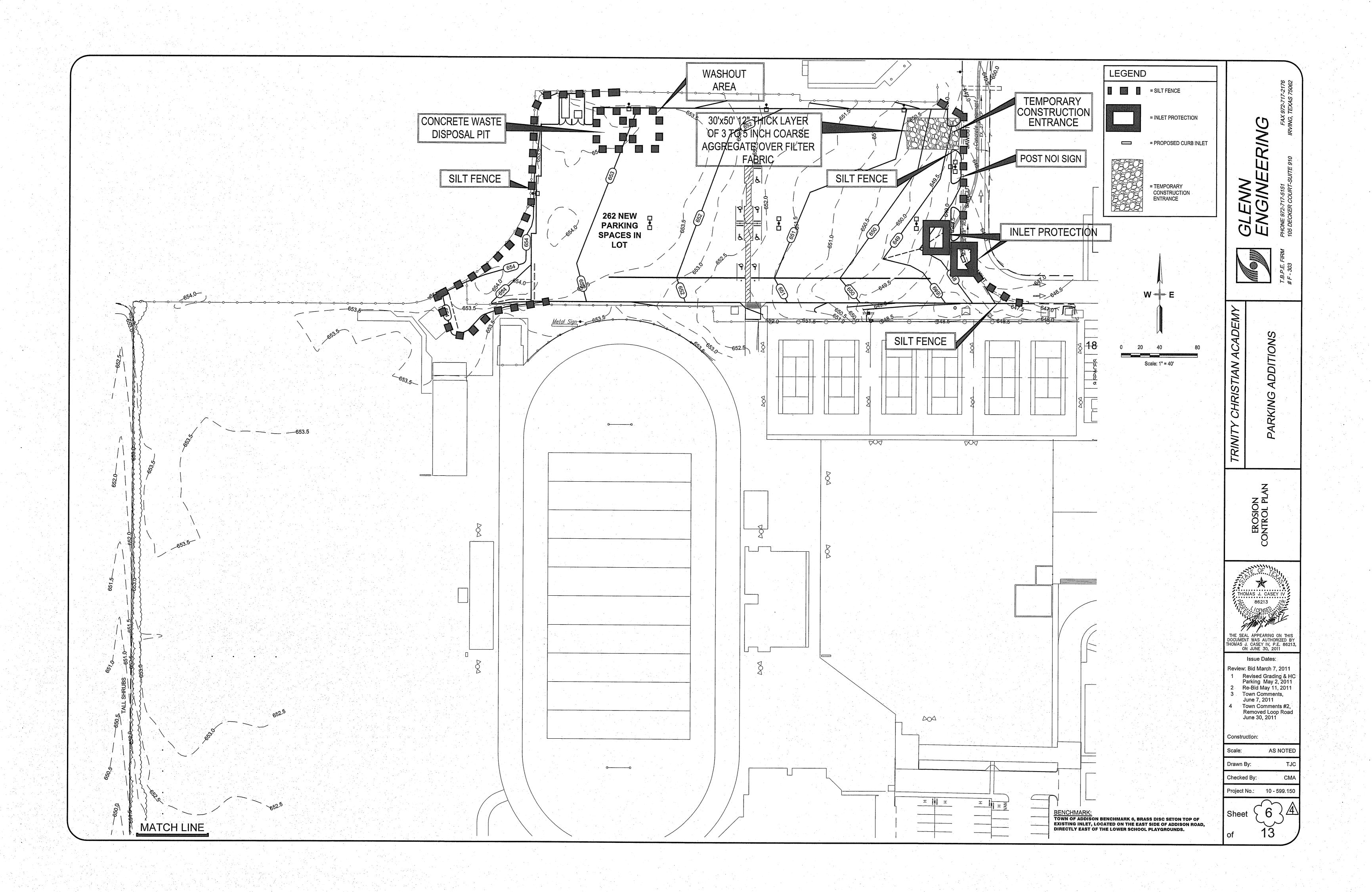
JUNE 2011











#### SITE DESCRIPTION

PROJECT NAME & LOCATION:

TRINITY CHRISTIAN ACADEMY

ADDISON, TEXAS

OWNER NAME & ADDRESS:

TRINITY CHRISTIAN ACADEMY 17001 ADDISON ROAD

ADDISTON, TEXAS 75001

PARKING ADDITIONS

PROJECT DESCRIPTION:

PLACEMENT OF EROSION CONTROL DEVICES

SEQUENCE OF MAJOR ACTIVITIES:

DENUDE SITE INSTALLATION OF UTILITY LINES PLACEMENT OF CONCRETE PAVEMENT

PLACEMENT OF GRASS REMOVAL OF EROSION CONTROL DEVICES

MAJOR SOIL DISTURBING ACTIVITIES:

DENUDE SITE INSTALLATION OF UTILITY LINES: PLACEMENT OF GRASS

PRE-DEVELOPMENT RUNOFF COEFFICIENT: 0.54

FINAL RUNOFF COEFFICIENT AFTER CONSTRUCTION:

TOTAL PROJECT AREA:

2.6 ACRES

2.6 ACRES TOTAL AREA TO BE DISTURBED:

CLAY SOILS DESCRIPTION OF EXISTING SOIL:

DESCRIPTION OF STABILIZATION OF EXISTING DRAINAGE WAYS:

DESCRIPTION OF STABILIZATION OF EXISTING DRAINAGE WAYS: SILT FENCE

INLET PROTECTION

DESCRIPTION OF EXISTING QUALITY OF STORM WATER DISCHARGE

FOR SITE (IF AVAILABLE):

NAME OF RECEIVING WATERS: TOWN OF ADDISON STORM SEWER

ADDITIONAL COMMENTS:

ESTIMATED PROJECT START DATE:

JULY 2011

ESTIMATED PROJECT END DATE:

AUGUST 2011

SEQUENCE AND TIMING OF INDICATED EROSION CONTROL PRACTICES AND/OR FEATURES

PRIOR TO STARTING CONSTRUCTION: PLACEMENT OF SILT FENCES INSTALLATION OF INLET PROTECTION FOR STREET INLETS

DURING CONSTRUCTION: INSPECTION AND MAINTENANCE OF SILT FENCES INSTALLATION OF INLET PROTECTION FOR ON-SITE PAVING

COMPLETION OF SITE: INSTALLATION OF GRASS REMOVAL OF EROSION CONTROL DEVICES

LATITUDE & LONGITUDE LATITUDE: 32° 59' 7" N LONGITUDE: 96° 50' 3" W

PLACEMENT ROCK FILTER DAM

SITE RATING FACTOR UTILIZING INDICATED EROSION CONTROL & MEASURES = 0.70 (MUST BE 0.70 OR LARGER)

#### EROSION AND SEDIMENT CONTROLS

STABILIZATION PRACTICES: DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITY HAS CEASED (TEMPORARILY OR PERMANENTLY) SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITIES ARE SCHEDULED TO RESUME WITHIN 21 DAYS.

TEMPORARY PERMANENT \_\_X\_\_

SEED OR SOD VEGETATION OTHER THAN SEED OR SOD

\_\_X\_\_

-

EROSION CONTROL MATS

PRESERVATION OF NATURAL VEGETATION OTHER (DESCRIBE)

ADDITIONAL COMMENTS:

\_\_\_\_

#### STRUCTURAL PRACTICES:

TEMPORARY PERMANENT SILT FENCE HAY BALES ROCK BERMS \_\_\_\_ DIVERSION, INTERCEPTOR OR PERIMETER DIKES DIVERSION, INTERCEPTOR OR PERIMETER SWALES PIPE SLOPE DRAIN \_\_\_\_ TRIANGULAR SEDIMENT FILTER DIKE INLET PROTECTION STONE OUTLET SEDIMENT TRAP 

SEDIMENT BASIN (REQUIRED FOR 10 ACRES OR LARGER WHERE ATTAINABLE) CHECK DAM

TEMPORARY SEDIMENT TANK STABILIZED CONSTRUCTION ENTRANCE SANDBAG BERM

OTHER (DESCRIBE):

#### ADDITIONAL COMMENTS:

#### OTHER ADDITIONAL STORM WATER MANAGEMENT FEATURES:

#### PERMANEN<sup>T</sup>

CURB & GUTTER \_\_X\_\_ STORM SEWER INLETS STORM SEWER CULVERTS STORM WATER DETENTION POND VELOCITY DISSIPATION DEVICES OTHER (DESCRIBE):

#### ADDITIONAL COMMENTS:

#### EROSION AND SEDIMENT CONTROLS

#### MAINTENANCE/INSPECTION PROCEDURES

- 1. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A RAIN GAUGE UTILIZING MIN. 0.1 INCH INCREMENTS AT THE PROJECT SITE.
- 2. CONTROL MEASURES WILL BE INSPECTED AT LEAST ONCE A WEEK OR WITHIN 24 HOURS OF ANY STORM EVENT OF 0.5 INCH OR GREATER. IF A REPAIR IS NECESSARY IT WILL BE DONE AT THE EARLIEST PRACTICABLE DATE.
- 3. INSPECTION WILL BE PERFORMED BY THE OWNERS REPRESENTATIVE AT LEAST ONCE A WEEK AS WELL AS AFTER EVERY 0.5 INCH OF RAIN OR GREATER. AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE FOR EACH INSPECTION AND KEPT AT THE PROJECT SITE. THE INSPECTION SHOULD USE THE OPERATOR INSPECTION FORM IN THE NCTCOG CONSTRUCTION BMP MANUAL OR OTHER FORM APPROVED BY THE CITY.
- 4. THE CONTRACTOR SHALL KEEP RECORDS OF THE CONSTRUCTION ACTIVITY ON THE SITE.

OTHER (DESCRIBE)

OTHER BEST MANAGEMENT (HOUSEKEEPING) PRACTICES: THE FOLLOWING INDICATED PRACTICES SHALL BE FOLLOWED:

LIME STABILIZATION:

\_X\_ ATTACHED BMP S-11 FROM NCTCOG CONSTRUCTION BMP MANUAL

\_\_\_\_ OTHER (DESCRIBE):

SOLID WASTE MANAGEMENT: \_X\_ ATTACHED BMP W-1 FROM NCTCOG CONSTRUCTION BMP

MANUAL \_\_\_\_ OTHER (DESCRIBE):

#### CONTRACTOR TO HAVE A TRASH RECEPTABLE ON SITE TO COLLECT SOLID WASTE TO PREVENT AIRBORNE DEBRIS.

HAZARDOUS WASTE MANAGEMENT:

X ATTACHED BMP W-2 FROM NCTCOG CONSTRUCTION BMP MANUAL

\_\_\_\_ STORAGE AREAS (DESCRIBE): \_\_\_\_ OTHER (DESCRIBE):

CONCRETE WASTE MANAGEMENT: \_X\_ ATTACHED BMP W-3 FROM NCTCOG CONSTRUCTION BMP MANUAL

\_\_\_\_ OTHER (DESCRIBE):

SANDBLASTING WASTE MANAGEMENT:

X ATTACHED BMP W-4 FROM NCTCOG CONSTRUCTION BMP MANUAL

\_\_\_\_ OTHER (DESCRIBE):

DUST REDUCTION MEASURES:

\_X\_ DISTURBED AREAS DAMPENED PERIODICALLY FOR DUST CONTROL

\_\_\_\_ EXCESS DIRT ON ADJACENT ROADS REMOVED DAILY

\_\_\_\_ OTHER (DESCRIBE):

#### SIGNATORY REQUIREMENTS

THE CITY HAS ADOPTED THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) CONSTRUCTION BMP MANUAL. THESE OUTLINES WERE DEVELOPED AS AN AID FOR THOSE PREPARING STORM WATER POLLUTION PREVENTION PLANS (SW3P'S) FOR VARIOUS CONSTRUCTION ACTIVITIES IN THE CITY. THEIR USE DOES NOT RELIEVE THE DESIGN ENGINEER OR OPERATOR(S) FROM COMPLYING WITH THE NCTCOG BMP MANUAL OR THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR STORM WATER DISCHARGE FROM CONSTRUCTION SITES.

THE SW3P SHALL BE SEALED BY A TEXAS REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED BY THE OWNER THAT THE INFORMATION IS TRUE AND THAT THEY ASSUME RESPONSIBILITY FOR THE PLAN. ADDITIONALLY, THEY SHALL CERTIFY THAT THE PLAN MEETS STATE AND LOCAL REQUIREMENTS FOR EROSION AND SEDIMENT CONTROL AND STORM WATER QUALITY. IN ALL CASES, A DULY AUTHORIZED REPRESENTATIVE AS INDICATED IN THE GENERAL PERMIT MAY CERTIFY THIS PLAN.

PRIOR TO THE COMMENCEMENT OF WORK, THE OWNER AND GENERAL CONTRACTOR MUST SUBMIT NOTICES OF INTENT (NOI) AS CO-PERMITTEES TO DISCHARGE STORM WATER FROM A CONSTRUCTION SITE UNDER THE NPDES PERMIT. ADDITIONALLY, ALL CONTRACTORS AND SUBCONTRACTORS (INCLUDING FRANCHISE UTILITIES) WHOSE ACTIVITIES IMPACT THE SW3P MUST SIGN AN APPROVED CERTIFICATION THAT THEY UNDERSTAND THEIR RESPONSIBILITIES UNDER THE PLAN. NO WORK WILL BE ALLOWED UNTIL COPIES OF ALL APPROPRIATE NOI'S AND CERTIFICATIONS ARE RECEIVED BY THE CITY.

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

I CERTIFY THAT THE STORM WATER POLLUTION PREVENTION PLAN REFLECTS THE TOWN OF ADDISON REQUIREMENTS FOR STORM WATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL AS ESTABLISHED IN THE NCTCOG BMP MANUAL.

SIGNATURE:		DATE:	
01011/1101121	(OWNER)		
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### ALLOWABLE NON-STORM WATER DISCHARGES

- DISCHARGES FROM FIRE FIGHTING ACTIVITIES.
- FIRE HYDRANT FLUSHINGS. \*
- WATER USED TO WASH VEHICLES OR CONTROL DUST.
- POTABLE WATER SOURCES (INCLUDING WATERLINE FLUSHINGS CONTAINING LESS THAN 1000 GALLONS). \* ■ UNCONTAMINATED GROUND WATER (INCLUDING DEWATERING GROUNDWATER INFILTRATION)
- FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS SUCH AS SOLVENTS.
- SPRINGS, RIPARIAN HABITATS, WETLANDS AND UNCONTAMINATED GROUNDWATER.
- IRRIGATION WATER.
- EXTERIOR BUILDING WASH DOWN WITHOUT DETERGENTS.
- PAVEMENT WASH WATERS WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED (UNLESS ALL SPILL MATERIAL HAS BEEN REMOVED) AND WHERE DETERGENTS ARE NOT USED.
- AIR CONDITIONING CONDENSATE.

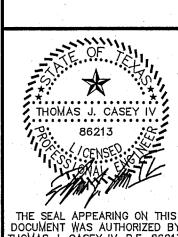
\* HEAVILY CHLORINATED WATER (3.5 MG/L OR GREATER FREE CHLORINE) RESULTING FROM WATER LINE STERILIZATION SHALL BE DIRECTED UNDER PERMIT TO THE SANITARY SEWER UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL APPLY TO THE ENGINEERING DEPARTMENT FOR A SANITARY SEWER DISCHARGE PERMIT AFTER THE MANDATORY CHLORINE RETENTION TIME (USUALLY 24 HOURS). THE HEAVILY CHLORINATED WATER MAY BE DISCHARGED TO THE SANITÀRY SEWER. BEGINNING TWO WORKING DAYS AFTER PERMIT APPLICATION.

> SWPPP DETAILS SCALE: AS SHOWN

LENN NGINEERING







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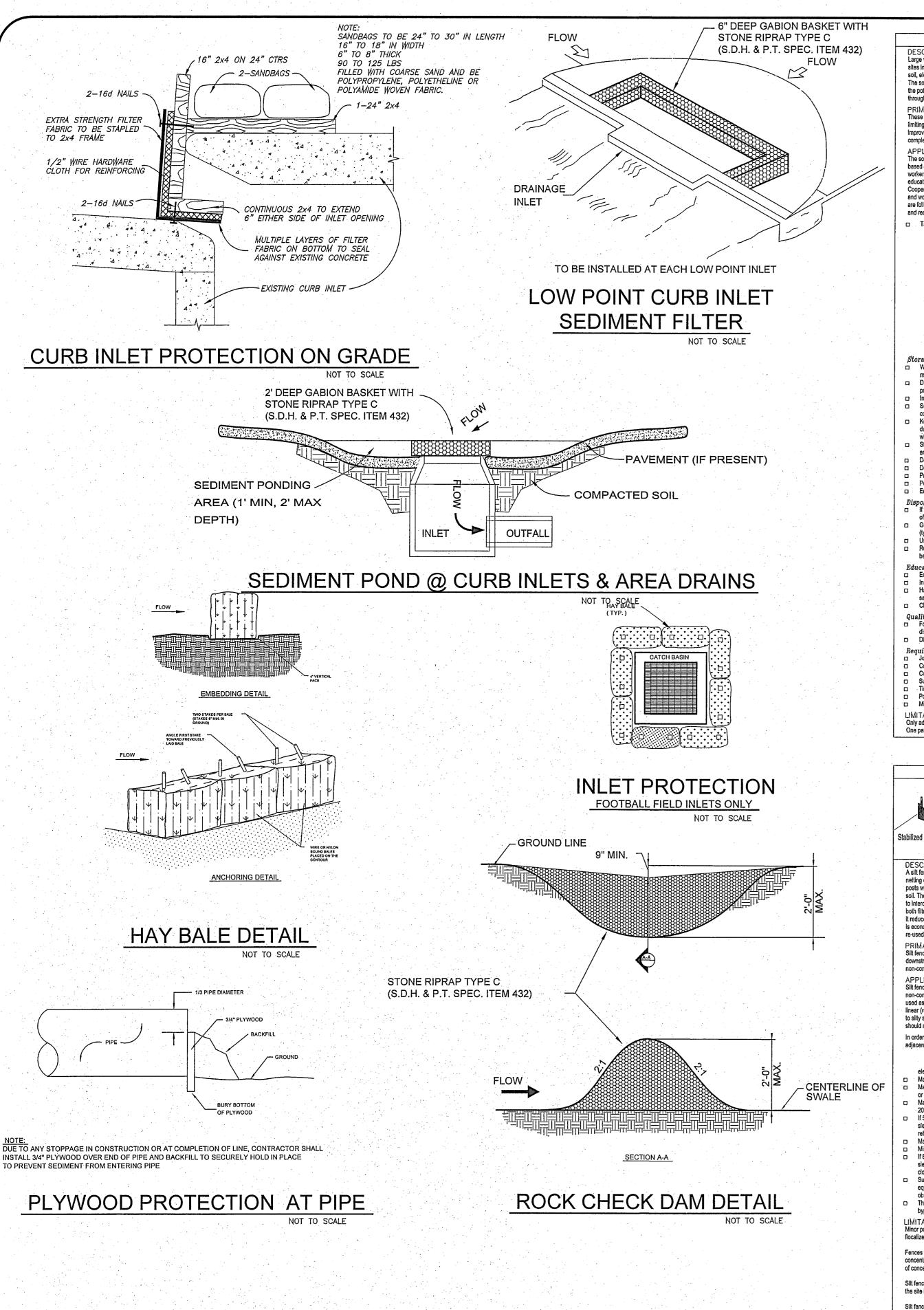
June 7, 2011 Town Comments #2, Removed Loop Road June 30, 2011

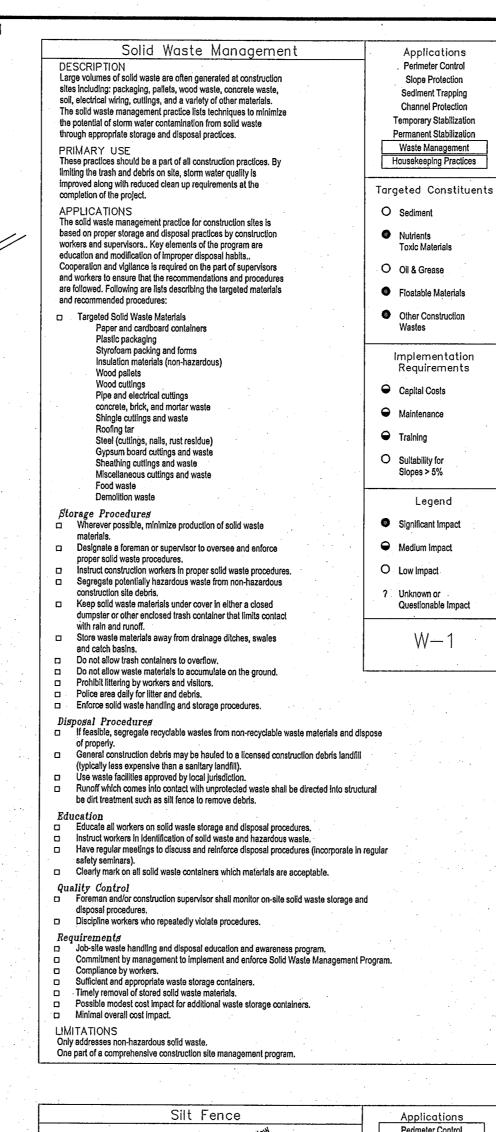
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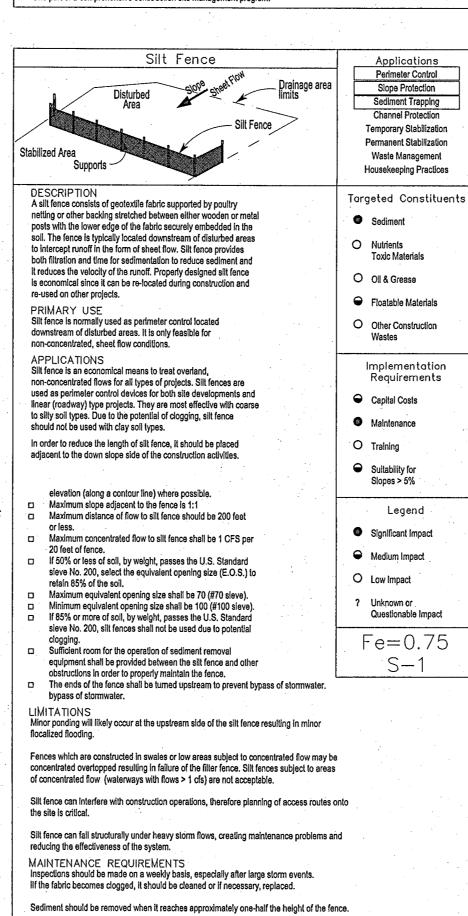
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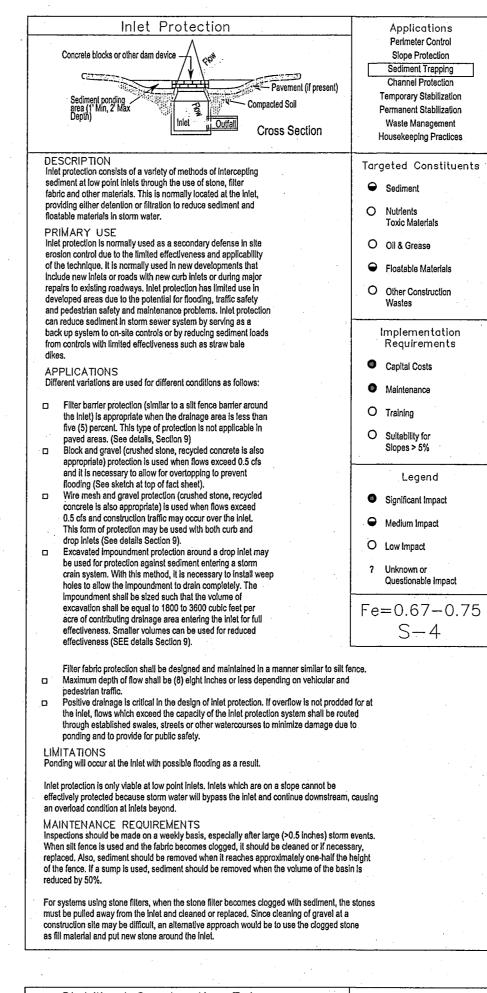
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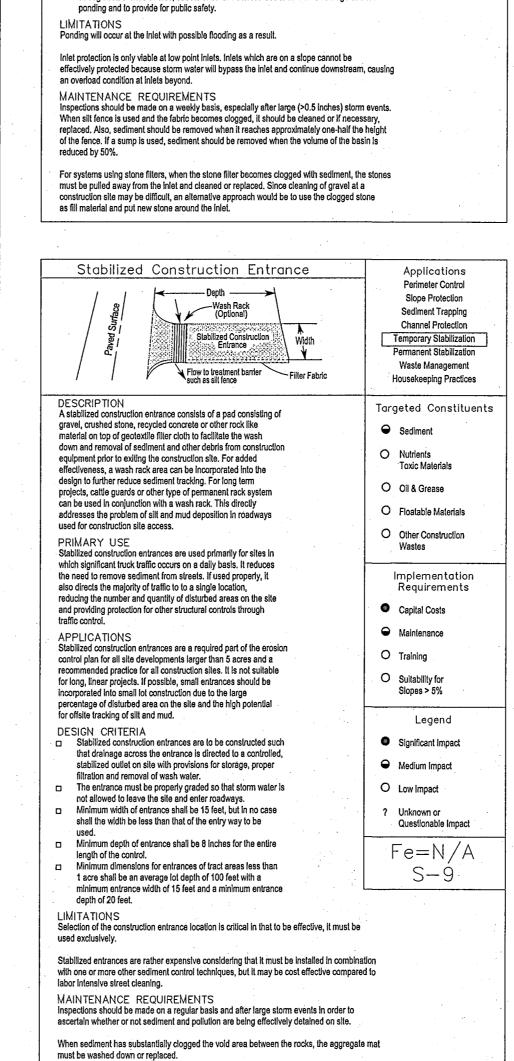
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Periodic re-grading and top dressing with additional stone must be done to keep the efficiency

Concrete Waste Management Applications Perimeter Control Concrete waste at construction sites comes in two forms Slope Protection 1)excess fresh concrete mix including truck and equipment Sediment Trapping washing, and 2) concrete dust and concrete debris resulting from Channel Protection demolition. Both forms have the potential to impact water quality Temporary Stabilization through storm water runoff contact with the waste. Permanent Stabilization PRIMARY USE Waste Management Concrete waste is present at most construction sites. This BMP Housekeeping Practices should be utilized at sites in which concrete waste is present. **APPLICATIONS** A number of water quality parameters can be affected by Targeted Constituents Introduction of concrete - especially fresh concrete. Concrete affects the pH of runoff, causing significant chemical changes in O Sediment water bodies and harming aquatic life. Suspended solids in the form of both cement and aggregate dust are also generated Nutrients from both fresh and demolished concrete waste. Current Unacceptable Waste Concrete Disposal Practices O Oil & Grease Dumping in vacant areas on the job-site. Illicit dumping off-site. Floatable Materials Dumping into ditches or drainage facilities Recommended Disposal Practices Other Construction Avoid unacceptable disposal practices listed above Develop pre-determined, safe concrete disposal areas Provide a washout area with a minimum of 6 cubic feet of containment area volume for every 10 cubic yards of Implementation Requirements Never dump waste concrete illicitly or without property owners knowledge and consent. Capital Costs Treat runoff from storage areas through the use of structural Maintenance Training Drivers and equipment operators should be instructed on proper disposal and equipment washing practices (see above). O Suitability for Supervisors must be made aware of the potential environmental consequences of improperly handled concrete Legend The construction site manager or foreman must ensure that employees and pre-mix companies follow proper procedures Significant Impact for concrete disposal and equipment washing. Employees violating disposal or equipment cleaning directive Medium Impact must be re-educated or disciplined if necessary. O Low Impact Demolition Practices Monitor weather and wind direction to ensure concrete dust is not entering drainage structures and surface waters. Questionable Impact Where appropriate, construct sediment traps or other types of sediment detention devices downstream of demolition activities Requirements W-3Prohibit dumping waste concrete anywhere but pre-determined Assign pre-determined truck and equipment washing areas Educate drivers and operators on proper disposal and equipment cleaning procedures Minimal cost impact for training and monitoring. Concrete disposal cost depends on availability and distance to suitable disposal areas. Additional costs involved in equipment washing could be significant. This concrete waste management program is one part of a comprehensive construction site

waste management program.

Legend Covered Storage - - Limits of Construction Vegetated/Preserved Buffer Strip ---- Property Boundary © Concrete Wash Area --- 600 -- Elevation Contours olnlet Protection Building Building Foot Print North Arrow □ Covered Trash Stabilized Construction Enfrance □ Rock □ Daily Mulch Runoff Flow Other (Specify) □ Erosion Mat LEAST ONCE A WEEK OR WITHIN 24 HOURS OF ANY STORM EVENT OR 0.5 INCHES OR GREATER. IF A REPAIR IS NECESSARY IT WILL BE DONE AT THE EARLIEST PRACTICABLE

SWPPP DETAILS

SWPPP DETAILS SHEET 1



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2 Re-Bid May 11, 2011
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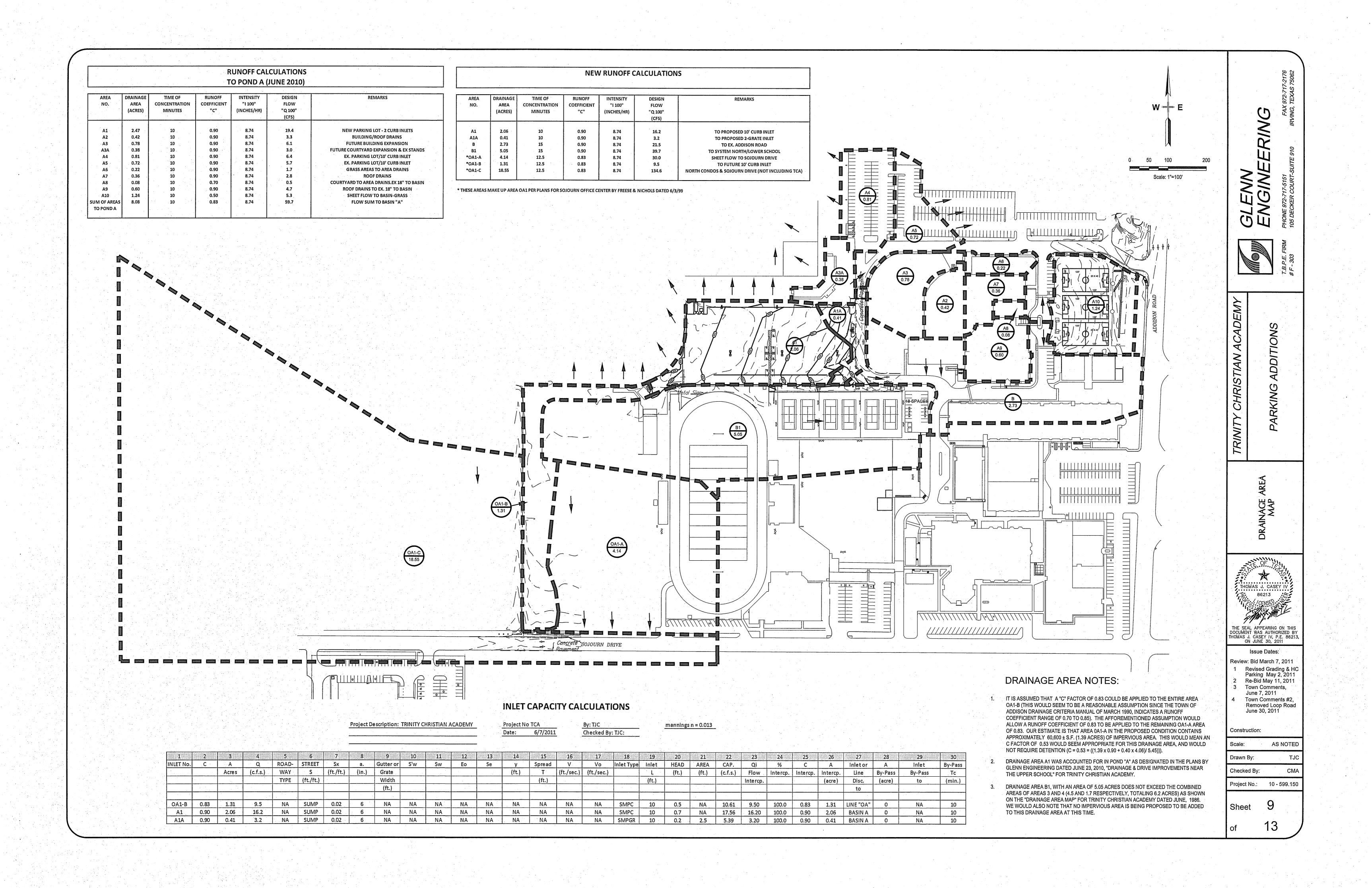
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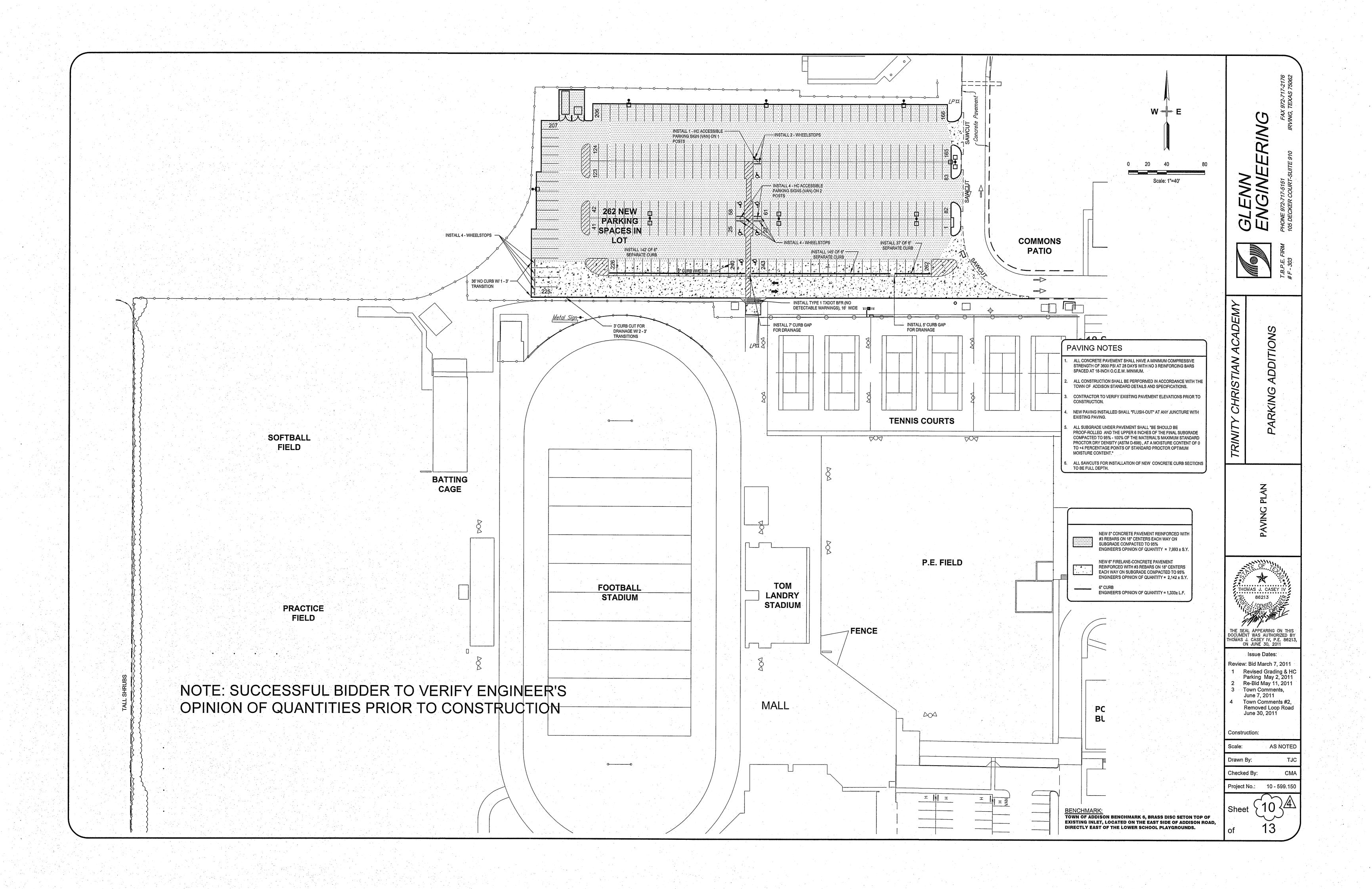
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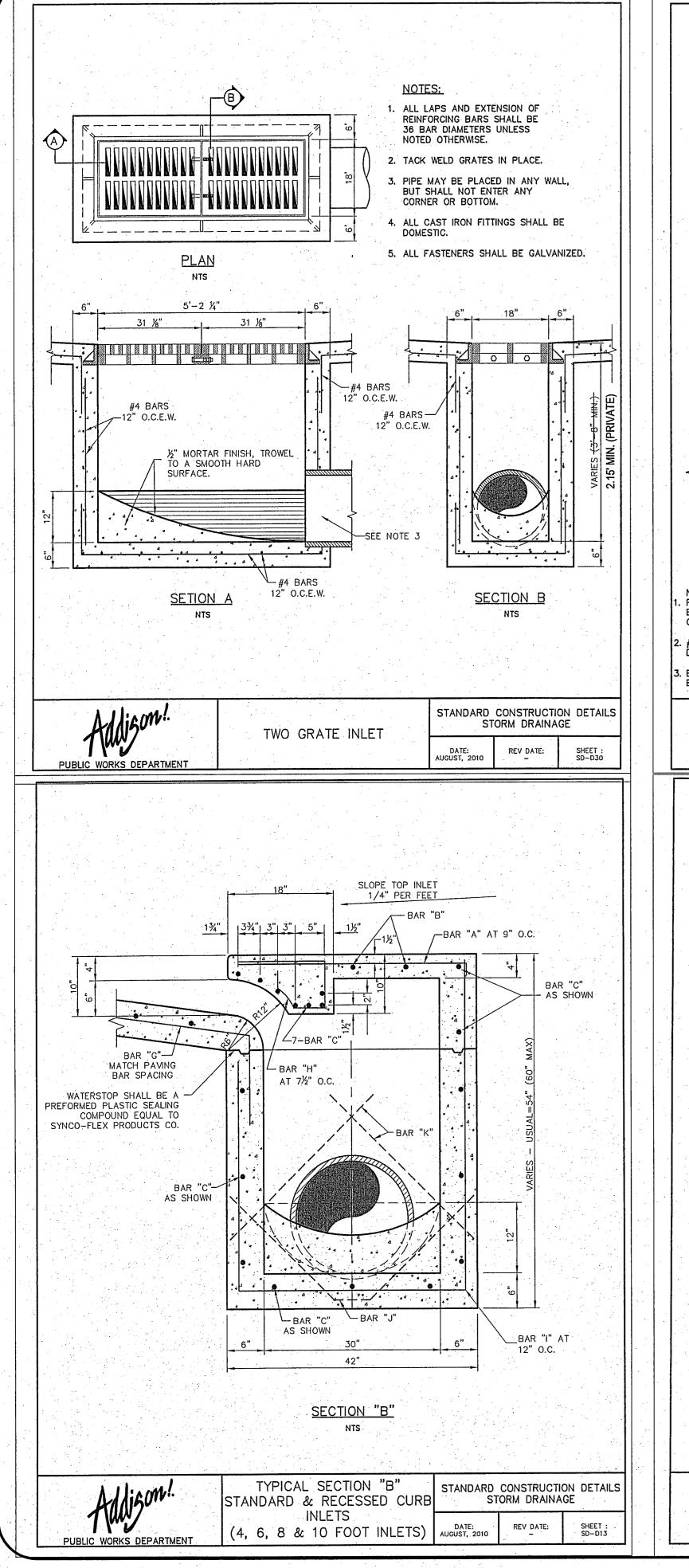
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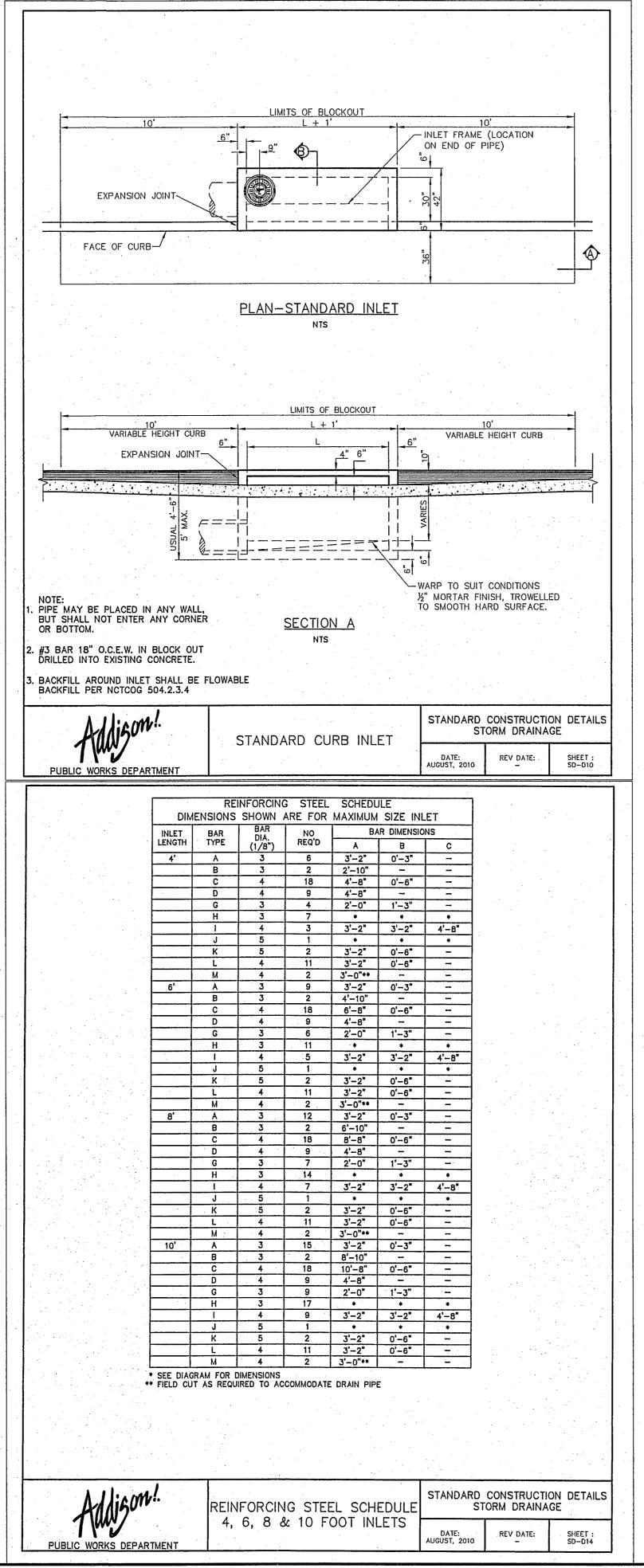
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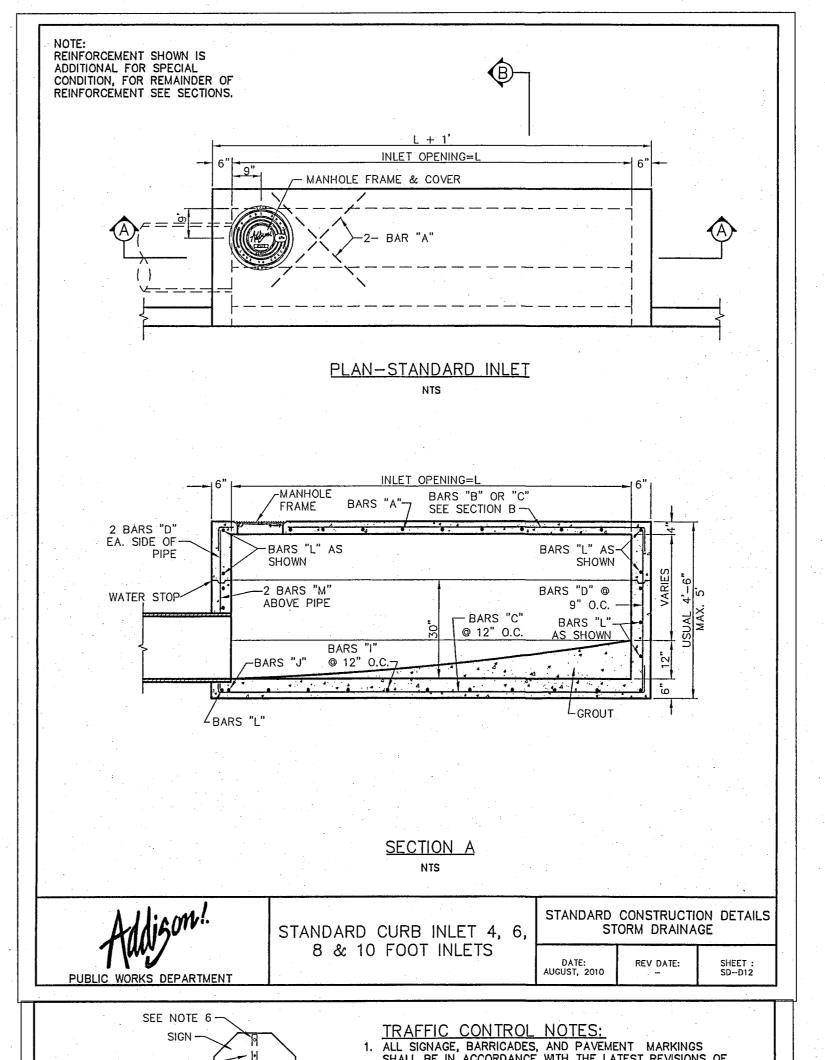
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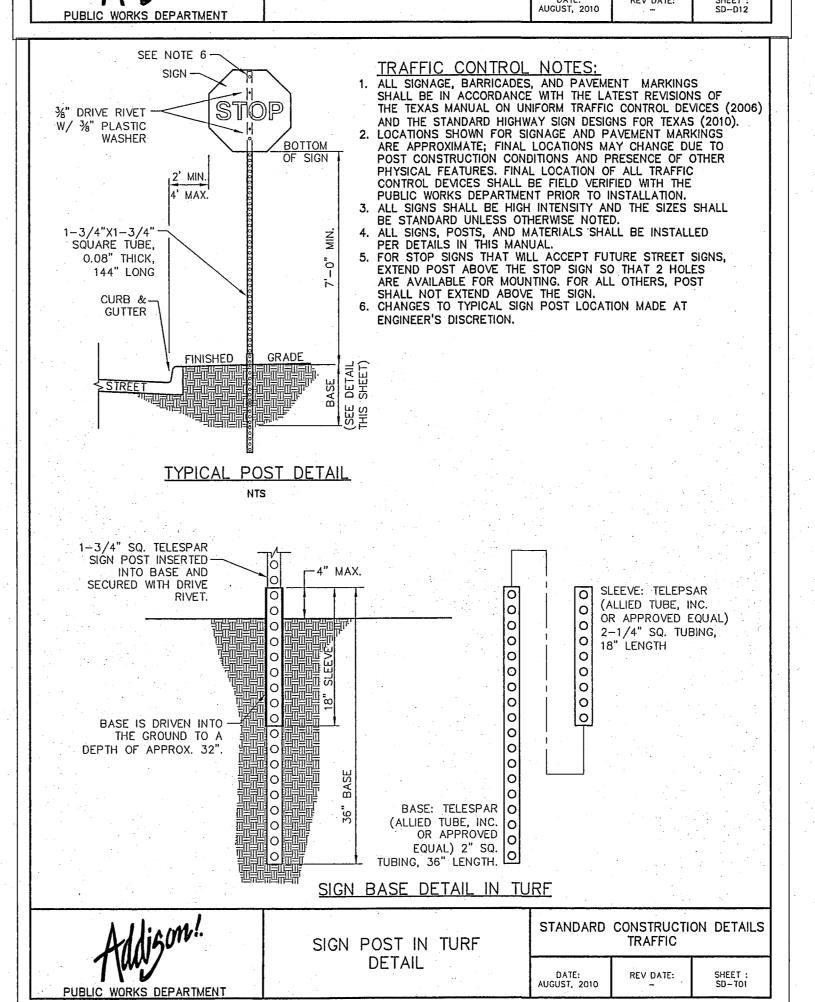
















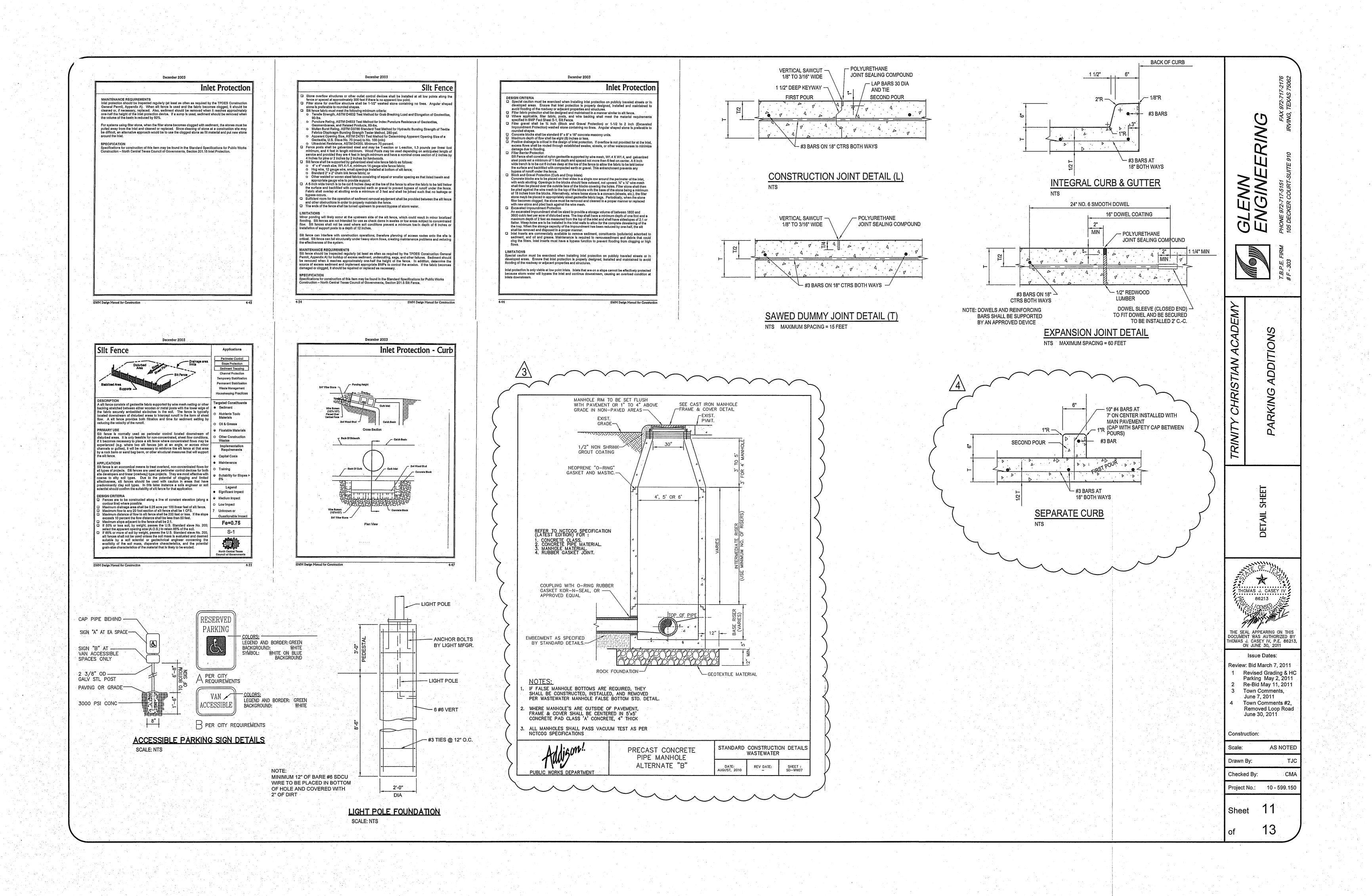
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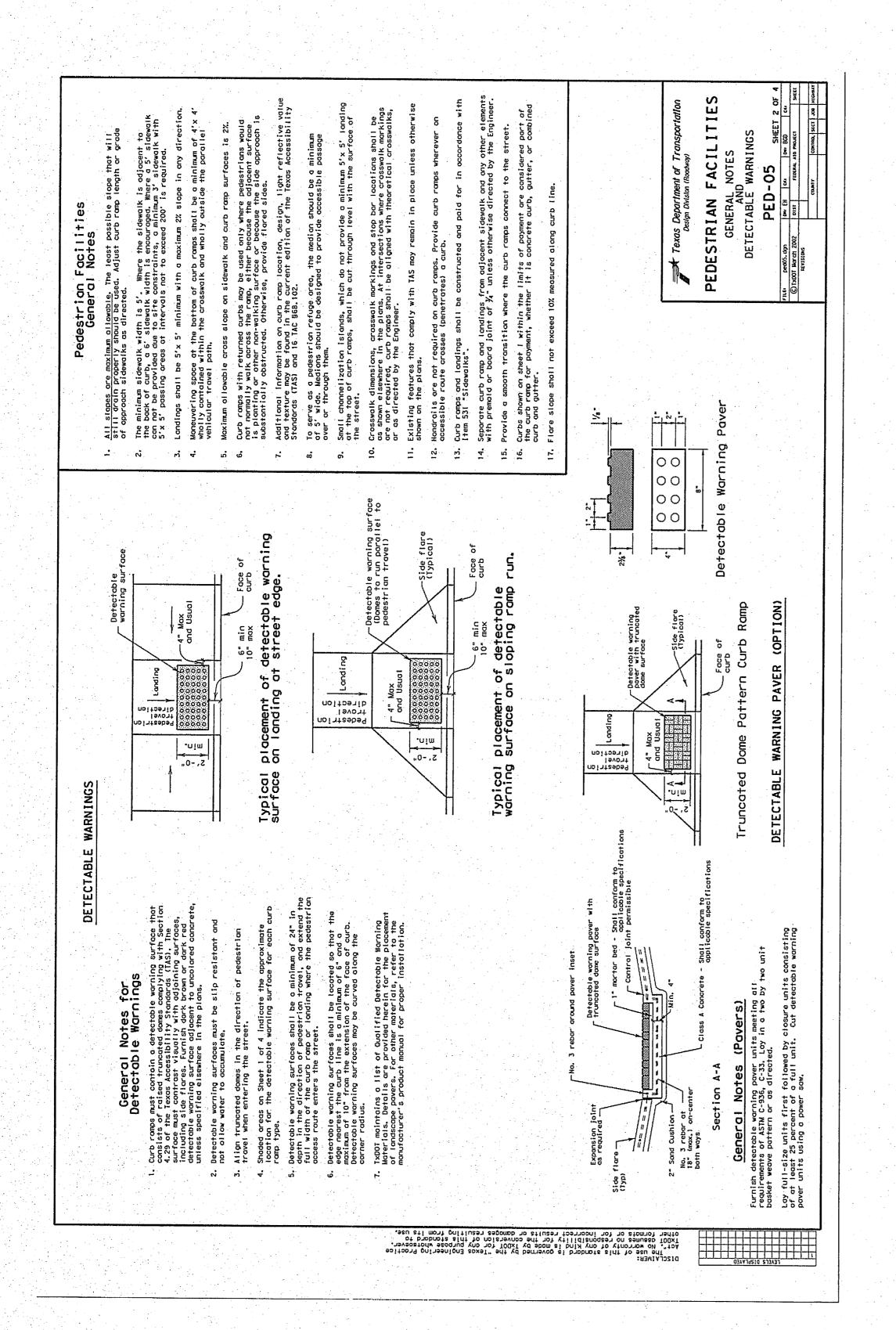
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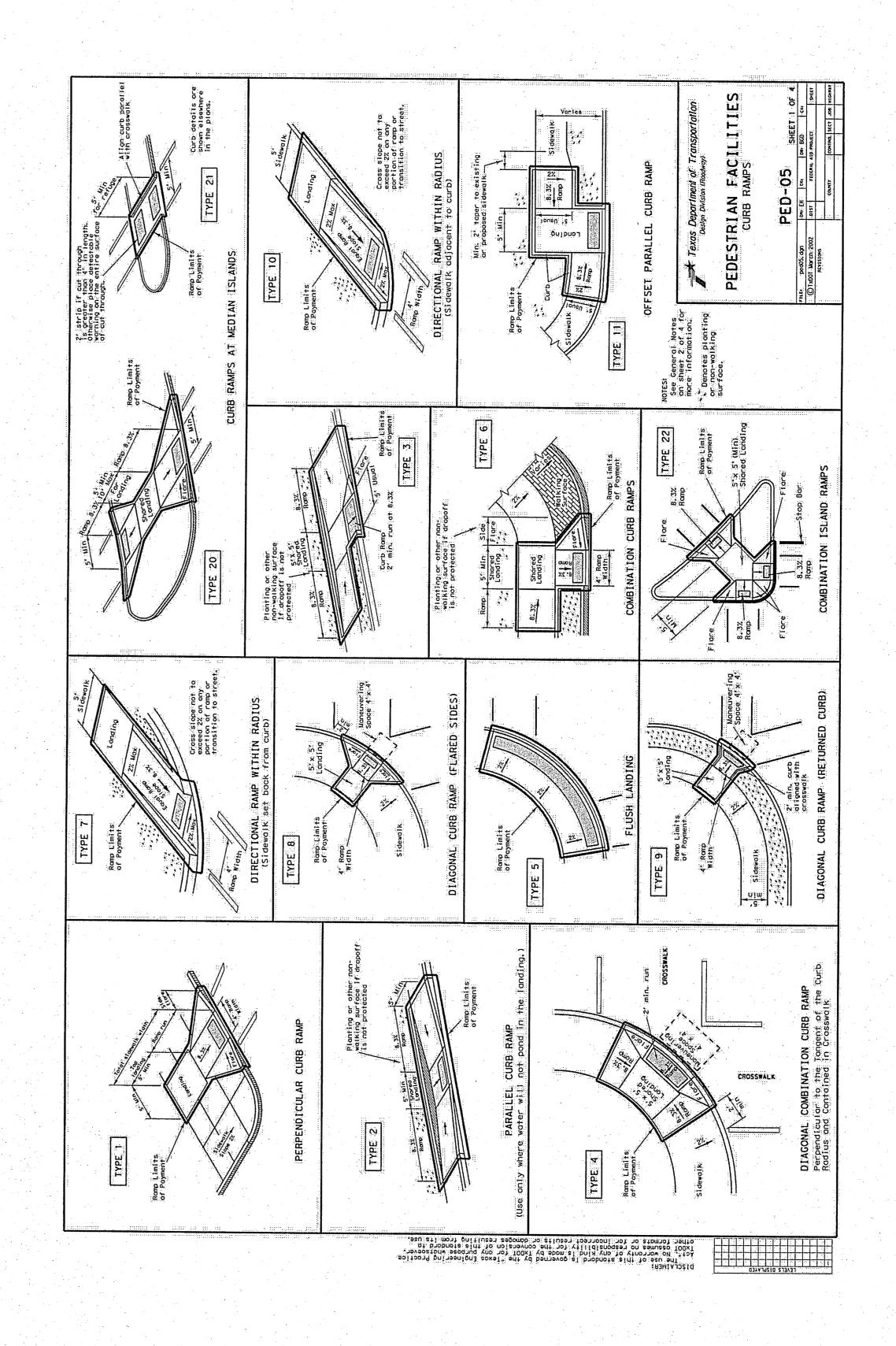
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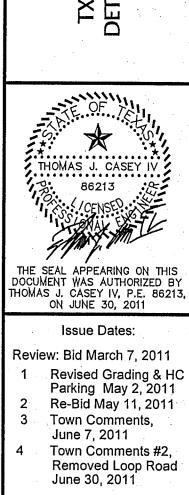
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GLENN ENGINEERING









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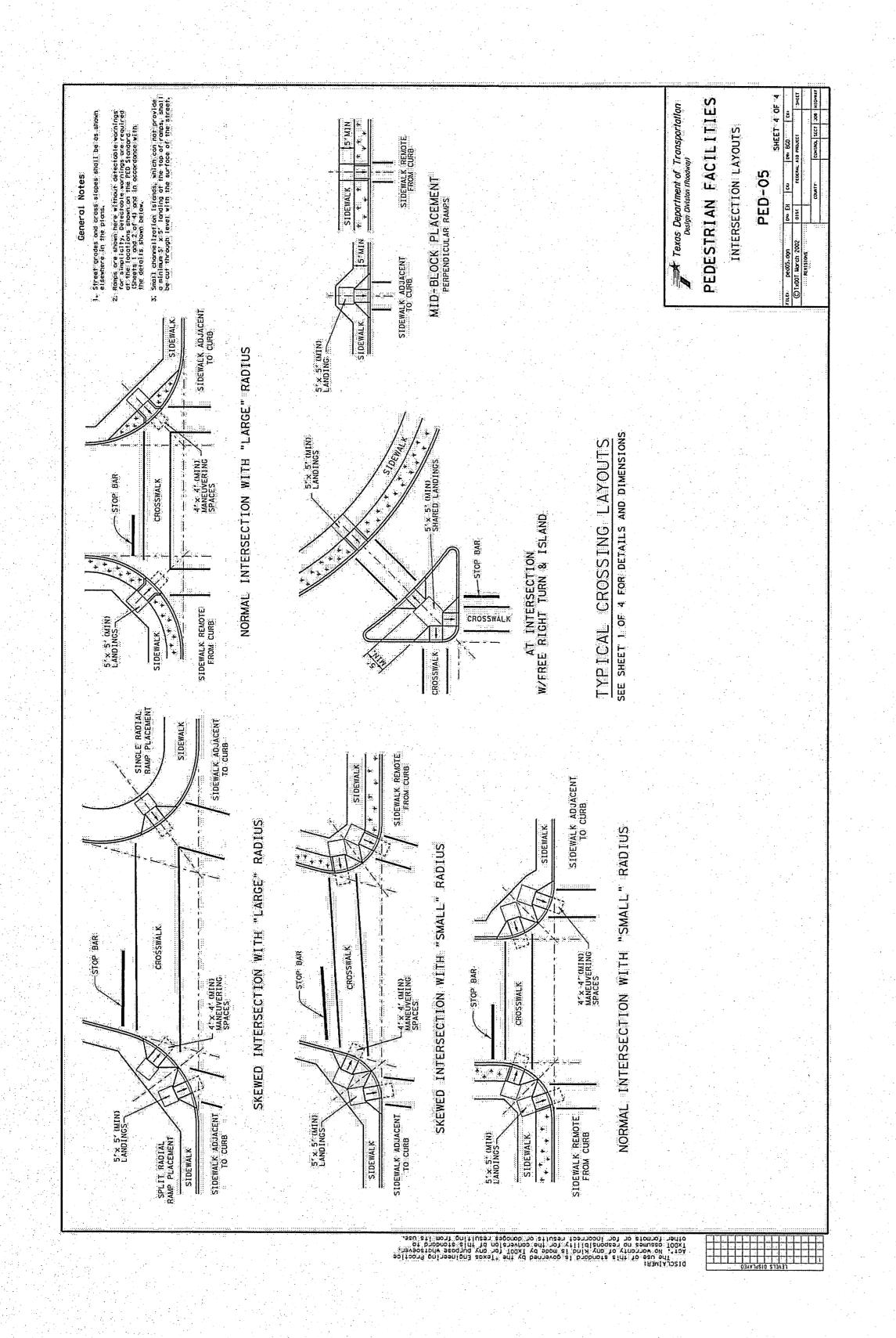
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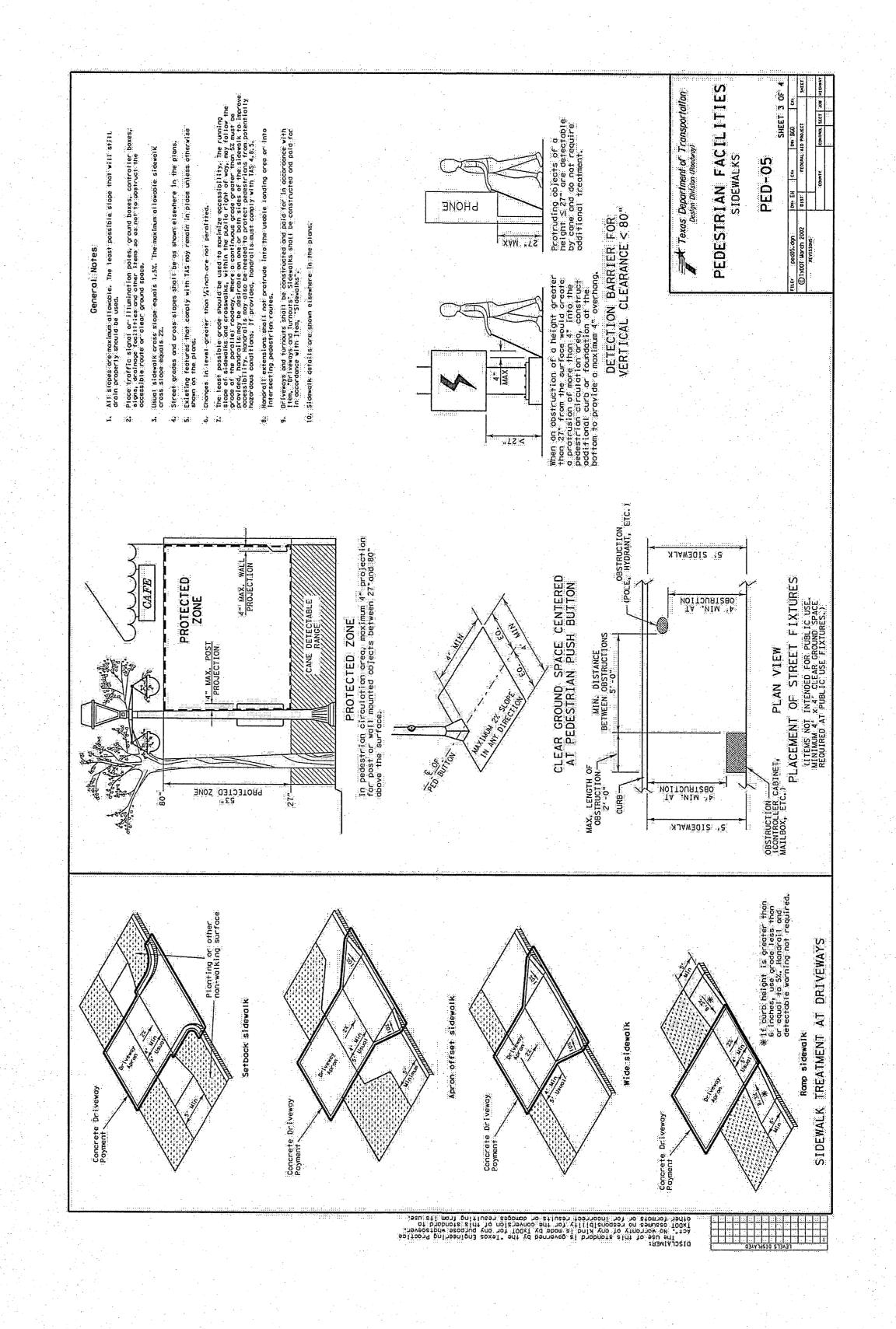
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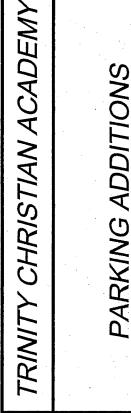
TX-DOT BFR DETAIL SHEET

TRINITY CHRISTIAN ACADEMY









THOMAS J. CASEY IV

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY THOMAS J. CASEY IV, P.E. 86213, ON JUNE 30, 2011

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