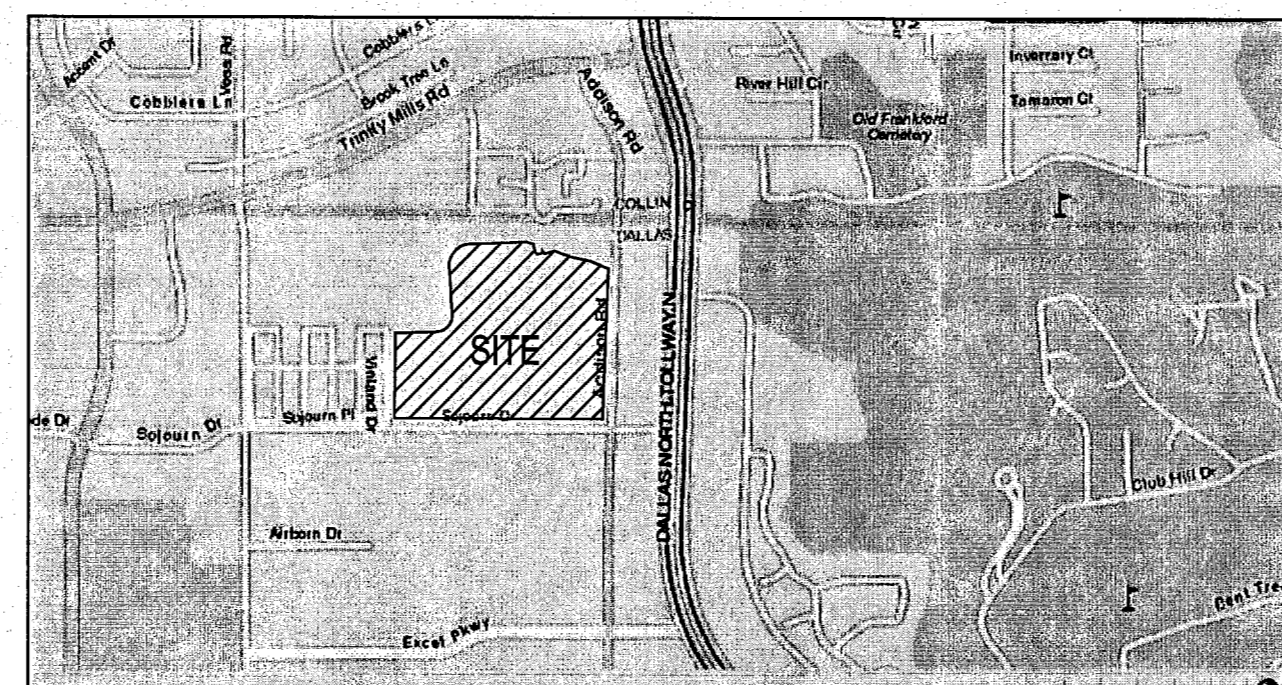


CONSTRUCTION PLANS
FOR
TRINITY CHRISTIAN ACADEMY
DRAINAGE & DRIVE IMPROVEMENTS
NEAR THE UPPER SCHOOL
(FIELD CHANGE TO PERFORMING ARTS CENTER)
PW#2006-13
17001 ADDISON ROAD
TOWN OF ADDISON, TEXAS

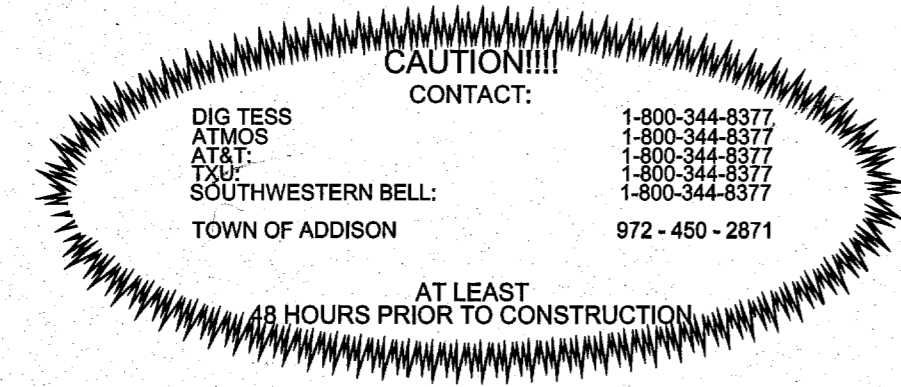


NTS
LOCATION MAP - TRINITY CHRISTIAN ACADEMY

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TRINITY CHRISTIAN ACADEMY

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6	S.W.P.P. DETAILS
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10	STORM SEWER PLAN & PROFILE
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14	TXDOT BARRIER FREE RAMP DETAILS
15	TXDOT BARRIER FREE RAMP DETAILS
15A	TXDOT TYPE "A" HEADWALL DETAILS

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.



BENCHMARK:
TOWN OF ADDISON BENCHMARK 6, BRASS DISC SETON TOP OF EXISTING INLET, LOCATED ON THE EAST SIDE OF ADDISON ROAD, DIRECTLY EAST OF THE LOWER SCHOOL PLAYGROUNDS.
ELEV. = 639.88'

OWNER
TRINITY CHRISTIAN ACADEMY
17001 ADDISON ROAD
ADDISON, TEXAS 75001-5096
(972) 931 - 8325

ENGINEER
GLENN ENGINEERING
105 DECKER COURT, SUITE 910
IRVING, TEXAS 75062
(972) 717-5151

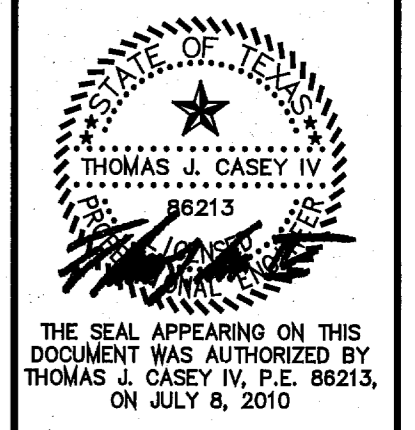
APPROVED FOR CONSTRUCTION
Town of Addison
Public Works Department
APPROVED BY: *[Signature]*
DATE: *7-8-2010*

All responsibility for the adequacy of these plans remains with the Engineer who prepared them. In approving these plans, the Town of Addison makes no representation of adequacy of the work of the Design Engineer.

GLENN ENGINEERING
PHONE 972-717-5151
105 DECKER COURT SUITE 910
IRVING, TEXAS 75062
T.B.P.E. FIRM # F - 303

TRINITY CHRISTIAN ACADEMY
DRAINAGE & DRIVE IMPROVEMENTS NEAR THE UPPER SCHOOL

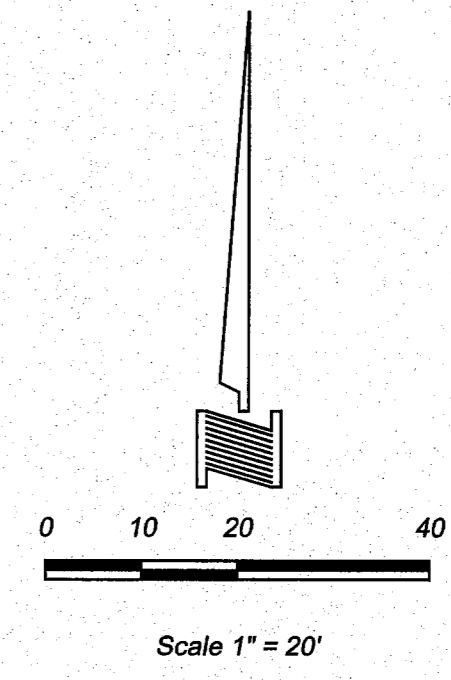
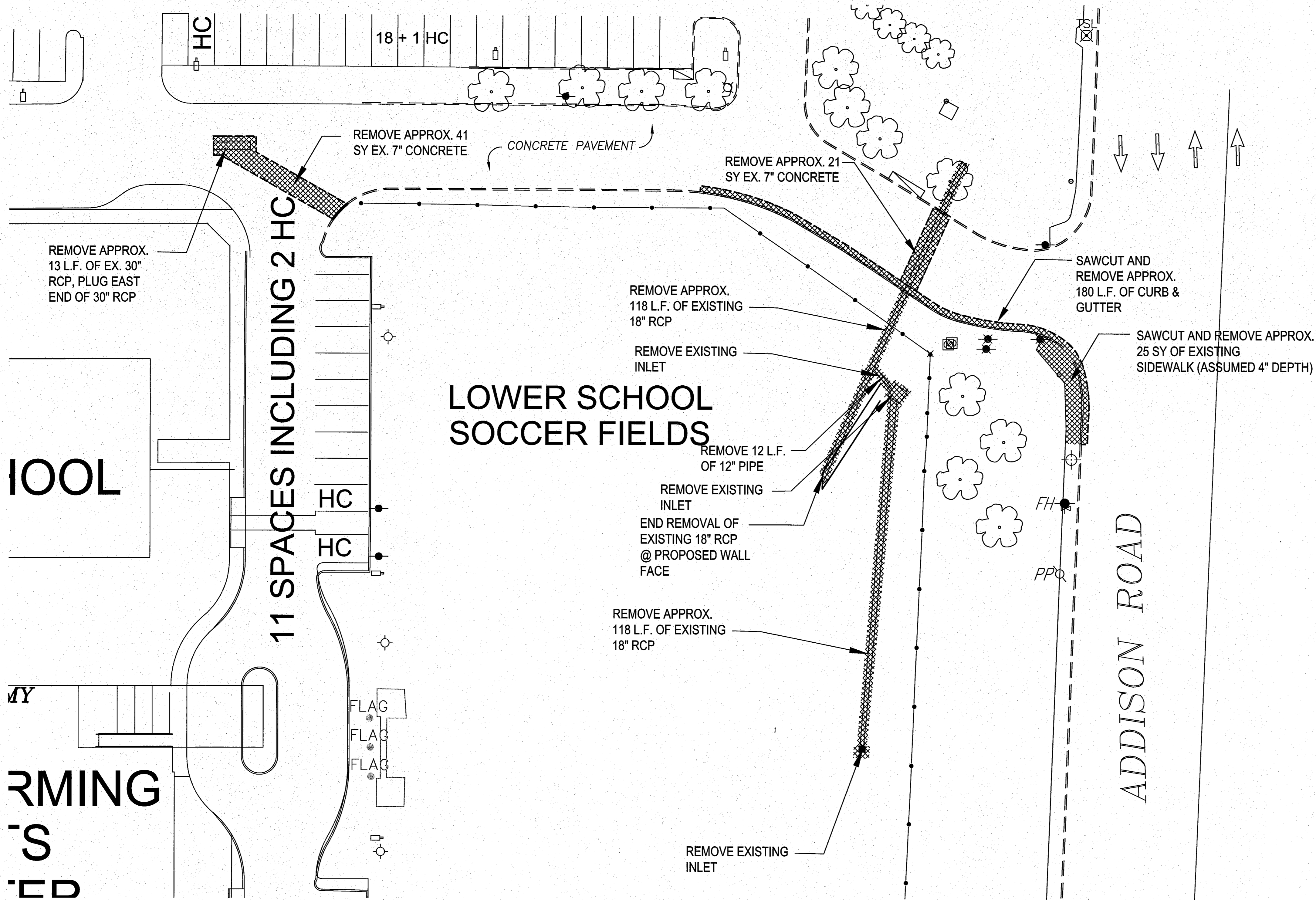
COVER SHEET



Issue Dates:
Review: June 23, 2010
Comments: June 30, 2010
Comments: July 2, 2010
Comments: July 8, 2010

Construction:
Scale: AS NOTED
Drawn By: TJC
Checked By: CMA
Project No.: 10 - 599.150

Sheet **1**
of **15**



DEMOLITION LEGEND	
	ITEM TO BE REMOVED

- DEMOLITION NOTES**
1. CONTRACTOR SHALL CONSULT ALL UTILITY COMPANIES AND VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DEMOLITION. REMOVAL AND RELOCATION OF ALL UTILITY LINES, METERS, VALVES, ETC. SHALL BE PERFORMED PER REQUIREMENTS OF THE TOWN OF ADDISON UTILITY COMPANIES. ANY DAMAGE TO PUBLIC UTILITIES SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO CORRECT.
 2. ALL DEMOLITION AND CONSTRUCTION TO BE KEPT WITHIN THE BOUNDARIES OF THE SITE OR AS DESIGNATED. ANY DAMAGE BY CONTRACTOR TO ADJOINING PROPERTIES OR ITEMS NOT IN THE DESIGNATED DEMOLITION AREA SHALL BE THE G.C.'S RESPONSIBILITY TO CORRECT.
 3. REMOVE ALL EXISTING UNDERGROUND UTILITIES, CAP AS REQUIRED. BACKFILL AND COMPACT PER TOWN OF ADDISON SPECIFICATIONS.
 4. REMOVE ALL SURFACE PAVING WHERE REQUIRED FOR NEW PAVING.
 5. REMOVE ANY OTHER ITEMS NOT INDICATED ABOVE BUT WHICH MUST BE DEMOLISHED TO COMPLETE PROJECT AS DESIGNATED BY SITE PLAN.
 6. ALL SAWCUTS FOR INSTALLATION OF NEW CONCRETE PAVEMENT SECTIONS TO BE FULL DEPTH.

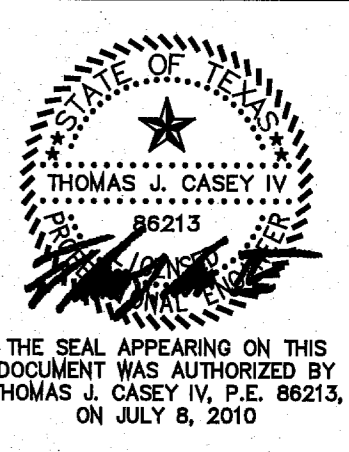
NOTE: Contractor shall remove all sprinkler heads and equipment in the areas occupied by the construction and staging areas. Terminate/cap off all lines as required. All sprinkler heads and equipment shall be given to the owner. The contractor is responsible for making all necessary changes to the irrigation system that are required to keep the remaining areas outside of the construction areas in working order. This includes relocation of any valves, piping, controls, etc., to operate the system.

At the completion of the construction project, this contractor is responsible for installation of an irrigation system throughout the areas that were involved in the construction. Equipment installed shall be the same as that which was removed. Owner will provide the equipment that was removed back to the contractor for installation. Any additional equipment required will be by the contractor.

GLENN ENGINEERING
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 IRVING, TEXAS 75062
 FAX 972-717-2176

TRINITY CHRISTIAN ACADEMY
 DRAINAGE & DRIVE
 IMPROVEMENTS NEAR
 THE UPPER SCHOOL

DEMOLITION PLAN



Issue Dates:
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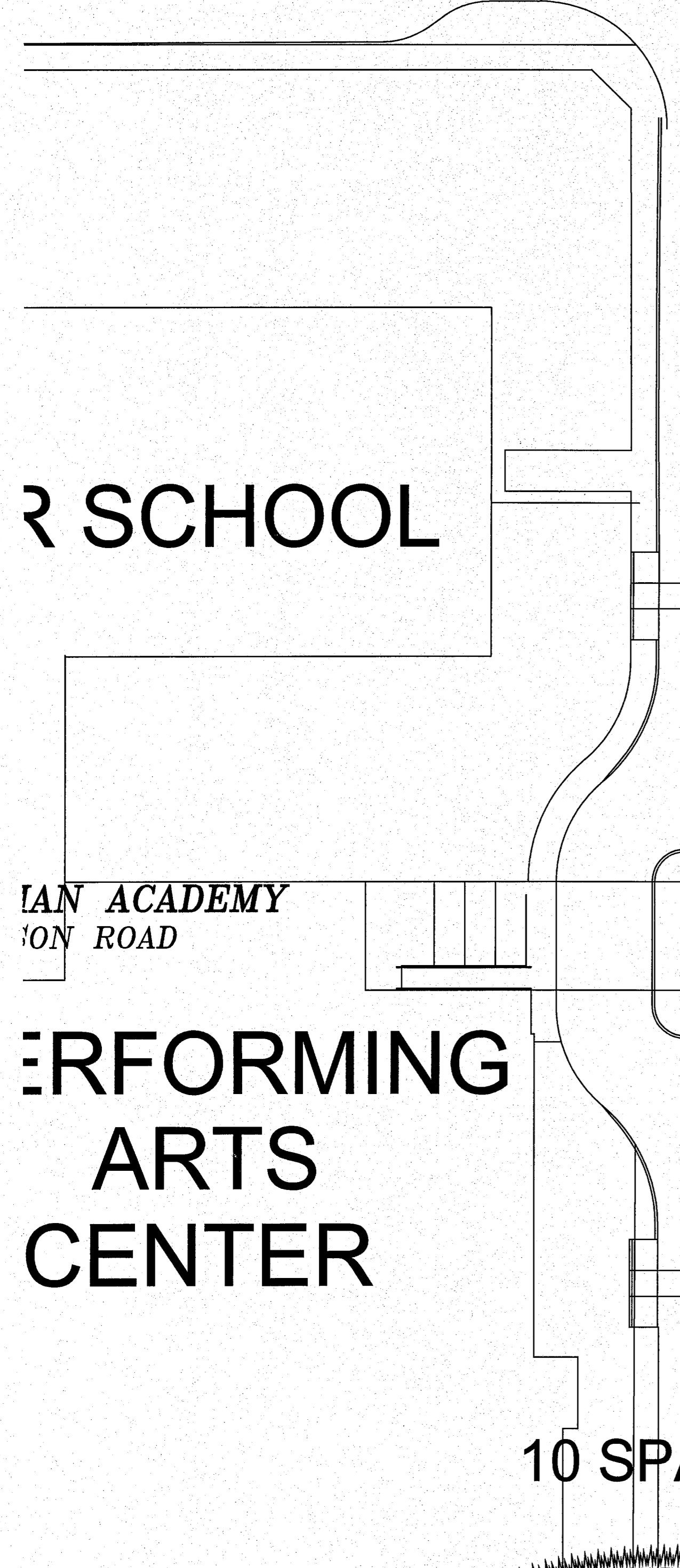
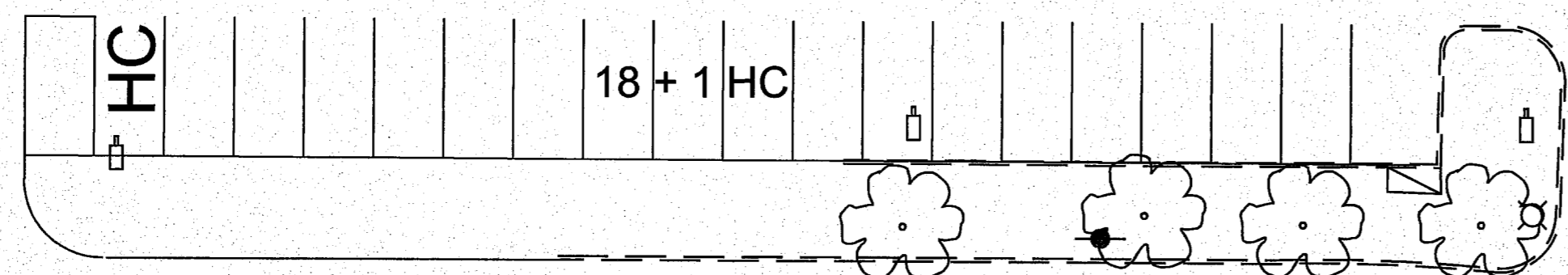
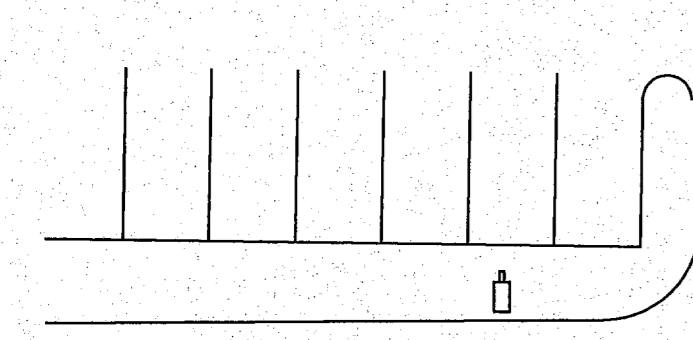
Construction:
 Scale: AS NOTED
 Drawn By: TJC
 Checked By: CMA
 Project No.: 10 - 599.150

Sheet **2**
 of **15**

BENCHMARK:
 TOWN OF ADDISON BENCHMARK 6, BRASS DISC SETON TOP OF EXISTING INLET, LOCATED ON THE EAST SIDE OF ADDISON ROAD, DIRECTLY EAST OF THE LOWER SCHOOL PLAYGROUNDS.
 ELEV. = 639.88'

CAUTION!!!!
 CONTACT:
 DIG TESS 1-800-344-8377
 ATMCS 1-800-344-8377
 AUST 1-800-344-8377
 SOUTHWESTERN BELL 1-800-344-8377
 TOWN OF ADDISON 972-450-2871

AT LEAST 48 HOURS PRIOR TO CONSTRUCTION



11 SPACES INCLUDING 2 HC

10 SPACES

LOWER SCHOOL SOCCER FIELDS

20 X 40

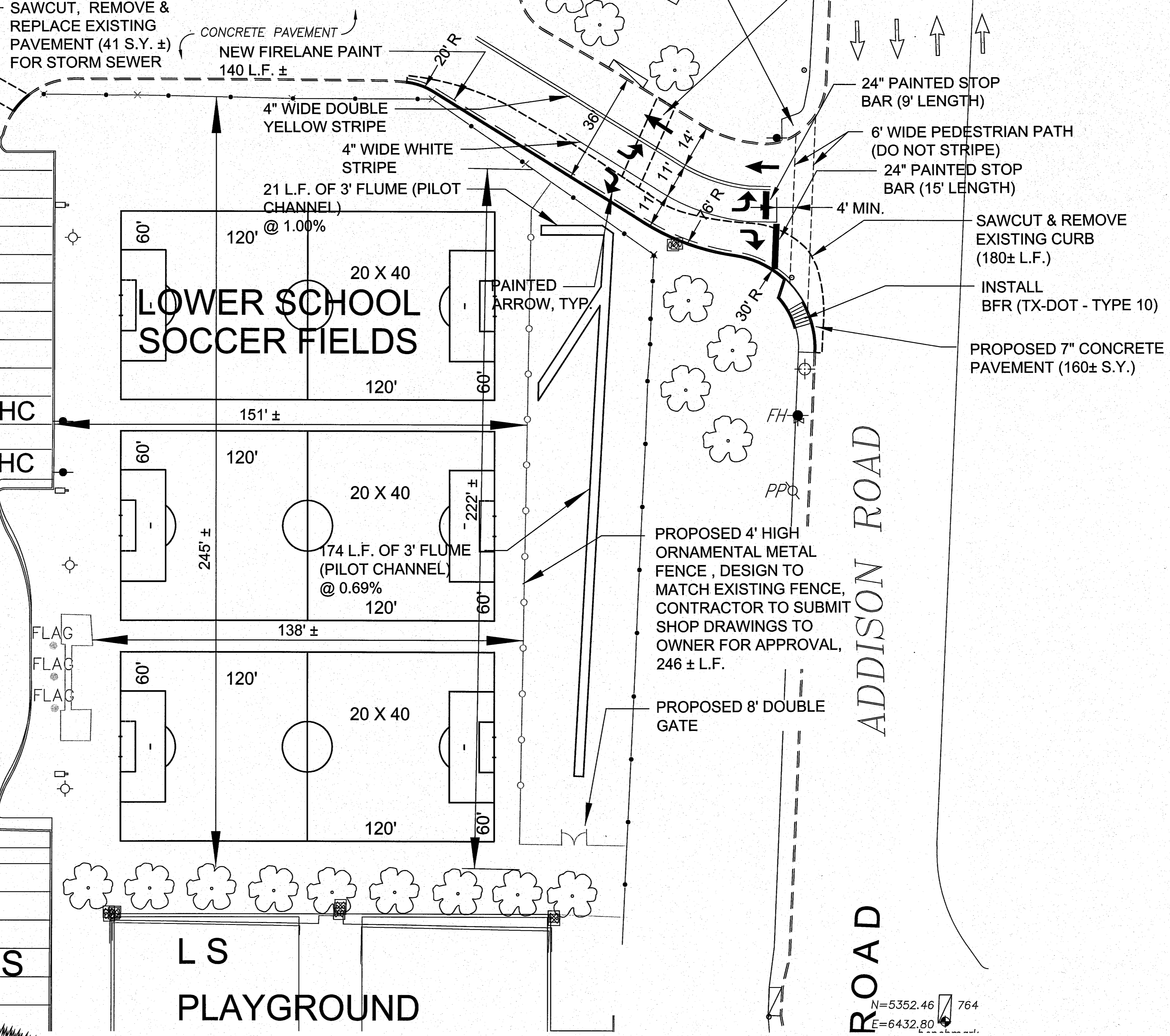
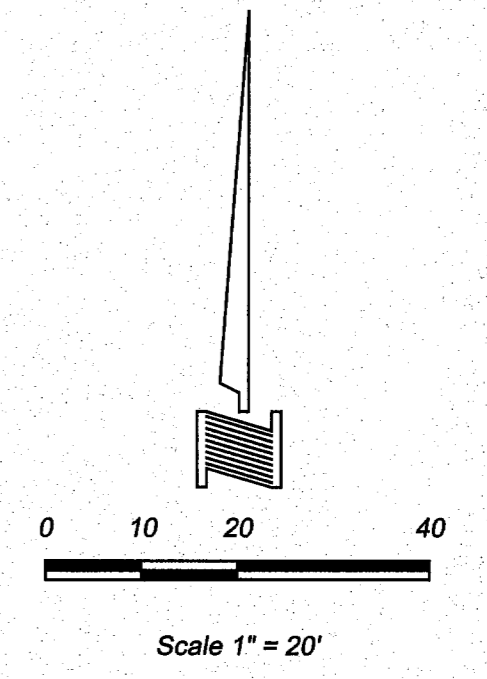
20 X 40

20 X 40

LS PLAYGROUND

NOTE: NEW FIRELANE PAINT ON SOUTH SIDE OF ENTRANCE SHALL CONFORM TO TOWN OF ADDISON STANDARDS (MATCH EXISTING FIRELANE PAINTING).

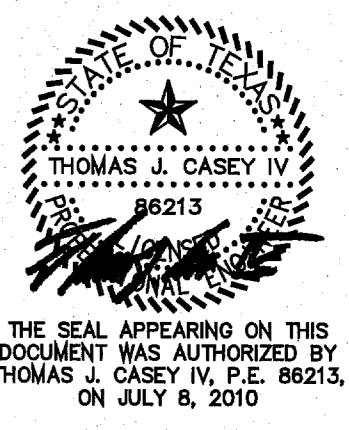
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GLENN ENGINEERING
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 IRVING, TEXAS 75062
 T.B.P.E. FIRM # F-303
 105 DECKER COURT-SUITE 910

TRINITY CHRISTIAN ACADEMY
 DRAINAGE & DRIVE
 IMPROVEMENTS NEAR
 THE UPPER SCHOOL

SITE PLAN



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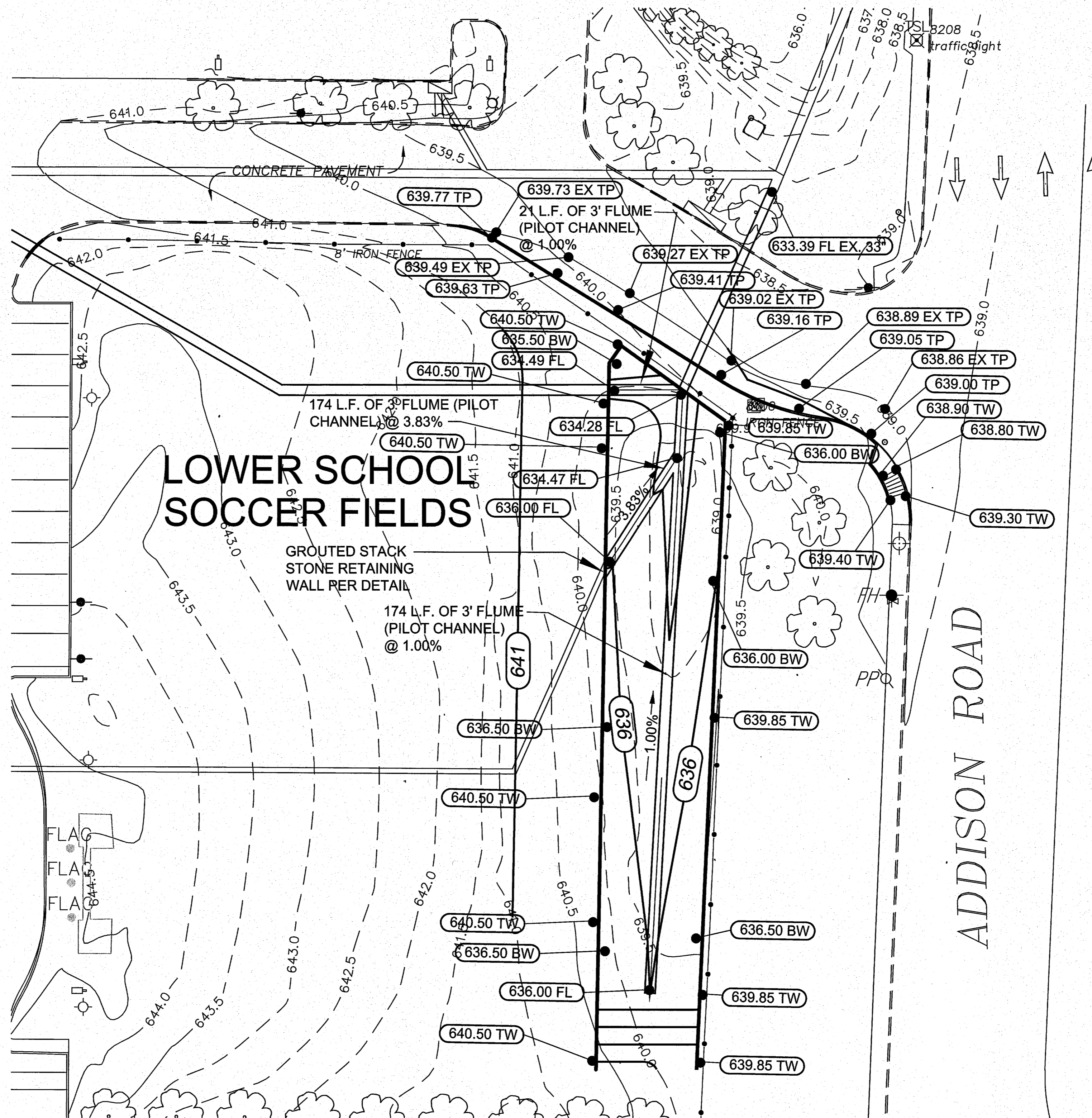
BENCHMARK:
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 ATMOS 1-800-344-8377
 AT&T 1-800-344-8377
 TXU 1-800-344-8377
 SOUTHWESTERN BELL 1-800-344-8377
 TOWN OF ADDISON 972-450-2871

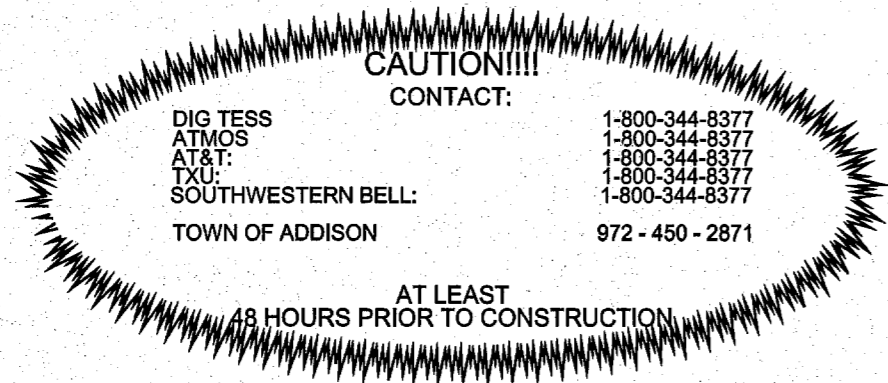
AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

GENERAL GRADING AND DRAINAGE NOTES

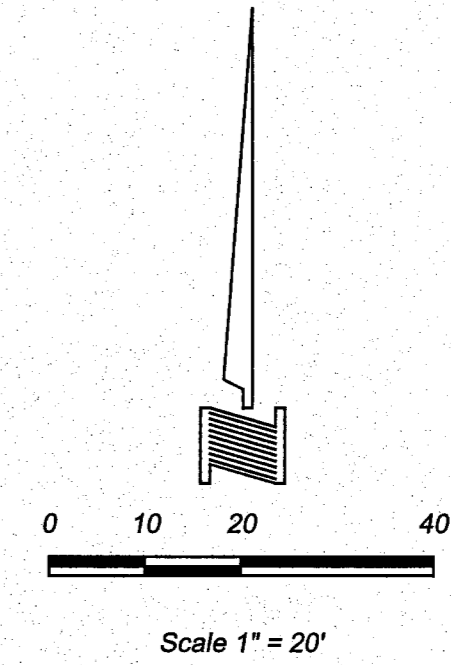
1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THESE PLANS AND TOWN OF ADDISON STANDARDS AND SPECIFICATIONS.
2. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL MAKE CERTAIN THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY.
4. IN THE EVENT AN ITEM IS NOT COVERED IN THE TOWN OF ADDISON SPECIFICATIONS, THE TOWN OF ADDISON ENGINEER'S DECISION SHALL APPLY.
5. BARRICADING, TRAFFIC CONTROL, AND PROJECT SIGNS SHALL CONFORM TO "STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION BARRICADING AND CONSTRUCTION STANDARDS".
6. THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF ANY CONSTRUCTION. IN THE EVENT OF ANY CONFLICT AND PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, IMMEDIATELY NOTIFY ENGINEER. MINOR ADJUSTMENTS OF FINISH GRADE TO ACCOMPLISH SPOT DRAINAGE ARE ACCEPTABLE. IF NECESSARY, UPON PRIOR APPROVAL OF ENGINEER, PAVING INSTALLED SHALL FLUSH OUT AT ANY JUNCTURE WITH EXISTING PAVING.
7. THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED ON FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR UTILITIES PRIOR TO STARTING CONSTRUCTION.
8. CONTRACTOR SHALL VERIFY ALL EXISTING INVERTS AND RIM ELEVATIONS PRIOR TO CONSTRUCTION.
9. ALL PROPOSED CONTOURS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND DESIGNATED GRADIENT ARE TO BE USED IN THE EVENT OF ANY DISCREPANCIES.
10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND/OR ESTABLISH A BENCHMARK (BASE UPON EXISTING CONDITION SHOWN ON THIS PLAN) PRIOR TO CONSTRUCTION.



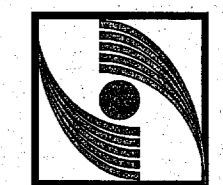
NOTE: SLOPE PROPOSED TURN LANE 2% TOWARDS EXISTING PAVEMENT AS INDICATED BY SPOT ELEVATIONS.



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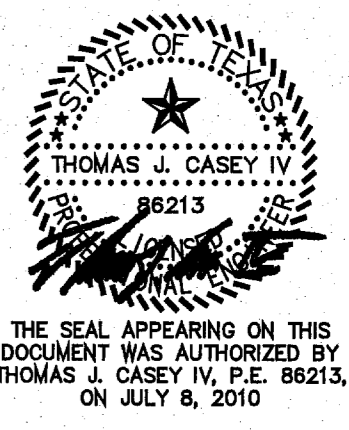
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FAX 972-717-2176

TRINITY CHRISTIAN ACADEMY
DRAINAGE & DRIVE
IMPROVEMENTS NEAR
THE UPPER SCHOOL

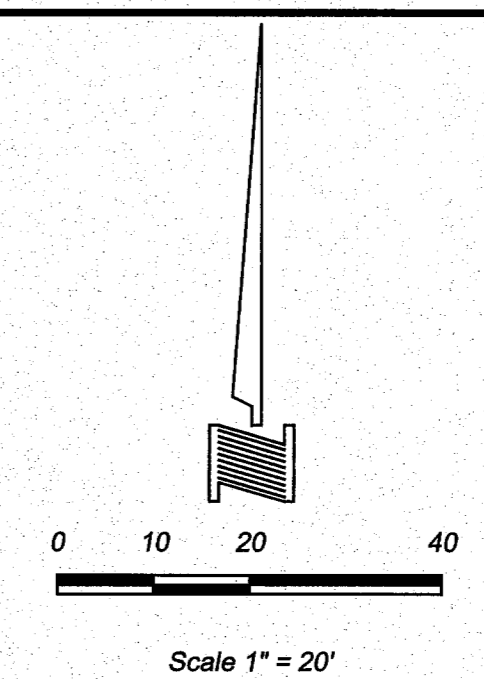
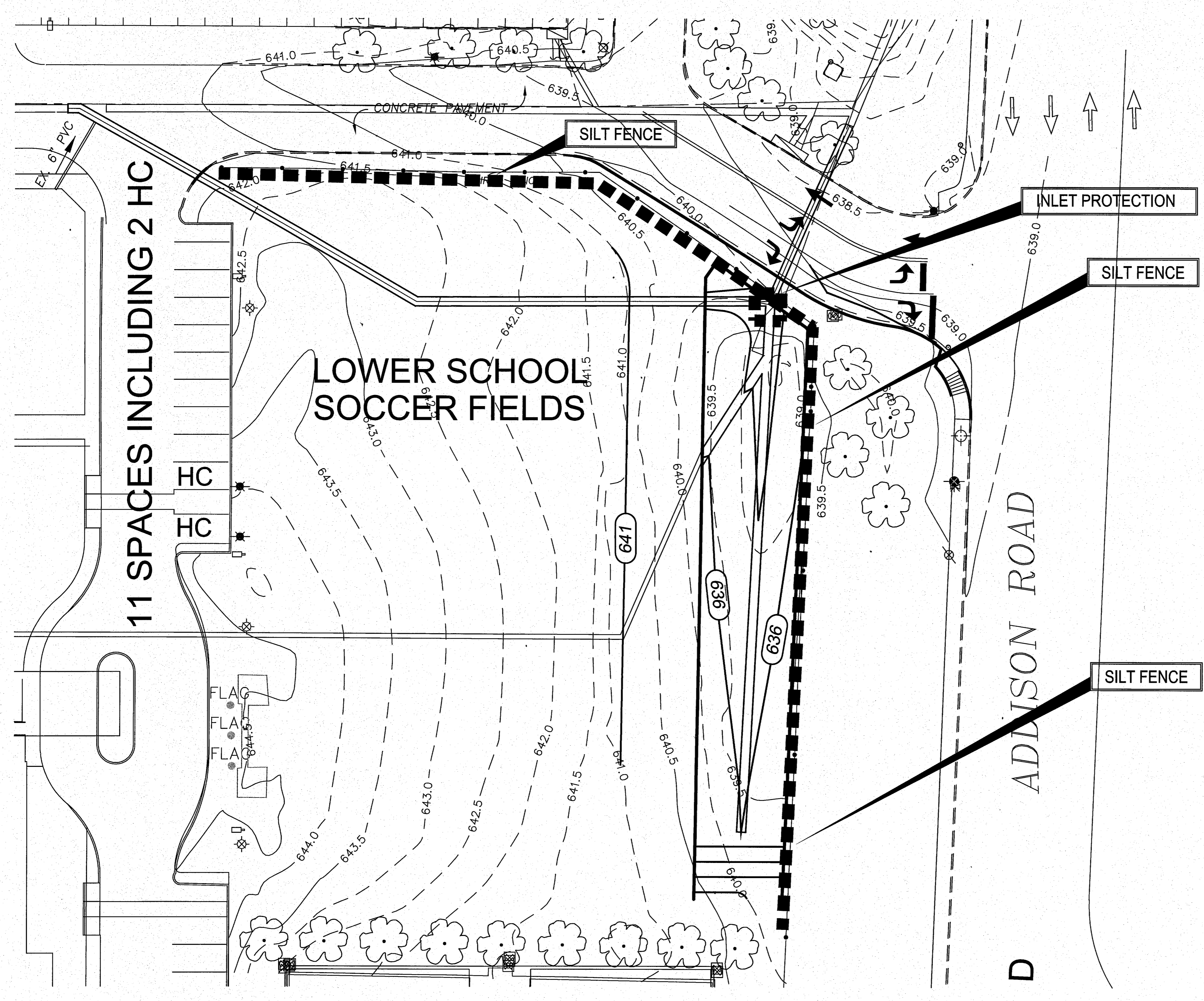
**GRADING
PLAN**



Issue Dates:
Review: June 23, 2010
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- GENERAL EROSION CONTROL NOTES**
- GENERAL EROSION CONTROL NOTES
- CONTRACTOR SHALL CONTROL SEDIMENT ACCUMULATION ON ALL STREETS SURROUNDING THE PROJECT. SEDIMENTS SHOULD NOT ENTER PUBLIC RIGHTS OF WAY, NOR SHOULD THEY ESCAPE THE SITE. SEDIMENTS THAT HAVE ESCAPED FROM THE SITE MUST BE REMOVED WITHIN A REASONABLE AMOUNT OF TIME, 3-7 DAYS.
 - MAINTAIN ALL FILTERS DURING CONSTRUCTION TO PREVENT ANY BLOCKAGES FROM ACCUMULATED SEDIMENT. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DURING CONSTRUCTION AS SPECIFIED BY ENGINEER OR CITY INSPECTOR.
 - ALL PROPOSED PARKING AREAS TO BE PAVED AS SOON AS POSSIBLE AFTER SUBGRADE IS PREPARED.
 - TEMPORARY EROSION AND SEDIMENT CONTROLS SHOULD BE REMOVED AFTER ALL EXPOSED SOILS HAVE BEEN FINALLY STABILIZED, AND NON-CONCRETE AREAS HAVE A BACKGROUND VEGETATIVE COVER OF AT LEAST 70%.
- GENERAL SILT FENCE NOTES
- STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 1 FOOT.
 - THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWN-SLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED (i.e. PAVEMENT), WEIGHT 14 BRIC FLAP WITH WASHED GRAVEL ON UPHILL SIDE TO PREVENT FLOW UNDER FENCE.
 - THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
 - SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST. THERE SHALL BE A 6 INCH DOUBLE OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
 - INSPECTION SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
 - ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 8 INCHES. THE SILT SHALL BE DISPOSED OF IN AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.
- GENERAL STABILIZED CONSTRUCTION ENTRANCE NOTES
- STONE SIZE - 3 TO 5 INCHES CRUSHED ROCK.
 - LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 50 FEET, UNLESS DEPTH OF LOT IS LESS THAN 150 FEET FROM EDGE OF PAVEMENT WHERE LENGTH MUST ONLY BE 30 FEET.
 - THICKNESS - NOT LESS THAN 8 INCHES.
 - WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
 - WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
 - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY, MUST BE REMOVED IMMEDIATELY.
 - DRAINAGE - ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
 - ALL EROSION CONTROL MEASURES TO BE MAINTAINED IN PLACE UNTIL 70% GROUND COVER IS OBTAINED.
 - EROSION CONTROL MEASURES MAY ONLY BE PLACED IN FRONT OF INLETS, OR IN CHANNELS, DRAINAGEWAYS OR BORROW DITCHES AT RISK OF CONTRACTOR. CONTRACTOR SHALL REMAIN LIABLE FOR ANY DAMAGE CAUSED BY THE MEASURES, INCLUDING FLOODING DAMAGE WHICH MAY OCCUR DUE TO BLOCKED DRAINAGE. AT THE CONCLUSION OF ANY PROJECT, ALL CHANNELS, DRAINAGEWAYS AND BORROW DITCHES IN THE WORK ZONE SHALL BE DRESSED OF ANY SEDIMENT GENERATED BY THE PROJECT OR DEPOSITED AS A RESULT OF EROSION CONTROL MEASURES.

11 SPACES INCLUDING 2 HC

LOWER SCHOOL SOCCER FIELDS

D ADDISON ROAD

SILT FENCE

INLET PROTECTION

SILT FENCE

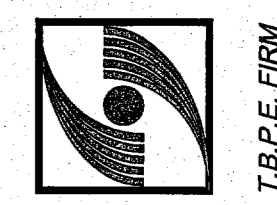
SILT FENCE

CAUTION!!!!
 CONTACT:
 DIG TESS 1-800-344-8377
 ATMCS 1-800-344-8377
 APT 1-800-344-8377
 SOUTHWESTERN BELL 1-800-344-8377
 TOWN OF ADDISON 972-450-2871

AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

BENCHMARK:
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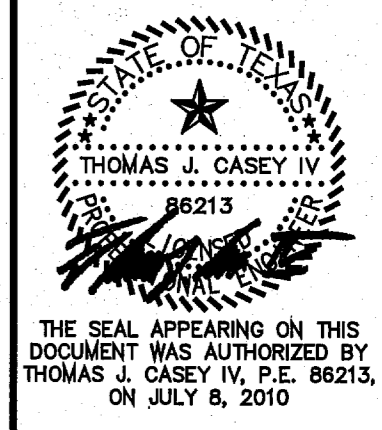
GLENN ENGINEERING



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 # F - 303
 105 DECKER COURT-SUITE 910
 IRVING, TEXAS 75062
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TRINITY CHRISTIAN ACADEMY
 DRAINAGE & DRIVE
 IMPROVEMENTS NEAR
 THE UPPER SCHOOL

SWPP
 PLAN



Issue Dates:
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 Checked By: CMA
 Project No.: 10 - 599.150

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 of 15

SITE DESCRIPTION

PROJECT NAME & LOCATION: TRINITY CHRISTIAN ACADEMY
ADDISON, TEXAS

OWNER NAME & ADDRESS: TRINITY CHRISTIAN ACADEMY
17001 ADDISON ROAD
ADDISTON, TEXAS 75001

PROJECT DESCRIPTION: DRAINAGE & DRIVE IMPROVEMENTS

SEQUENCE OF MAJOR ACTIVITIES: PLACEMENT OF EROSION CONTROL DEVICES
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: 0.83

TOTAL PROJECT AREA: 1 ACRES

TOTAL AREA TO BE DISTURBED: 1 ACRES

DESCRIPTION OF EXISTING SOIL: CLAY SOILS

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: JUNE 2010

ESTIMATED PROJECT END DATE: AUGUST 2010

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

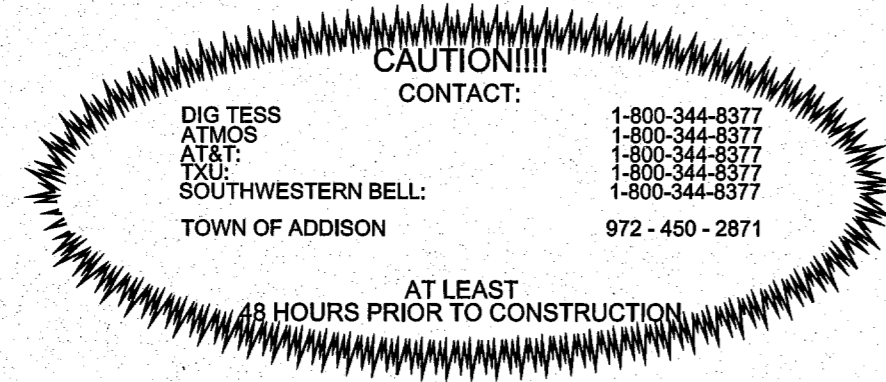
PRIOR TO STARTING CONSTRUCTION:
PLACEMENT OF SILT FENCES
INSTALLATION OF INLET PROTECTION FOR STREET INLETS

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

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

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

BENCHMARK:
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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	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	SEED OR SOD
<input type="checkbox"/>	<input type="checkbox"/>	VEGETATION OTHER THAN SEED OR SOD
<input type="checkbox"/>	<input checked="" type="checkbox"/>	EROSION CONTROL MATS
<input type="checkbox"/>	<input type="checkbox"/>	PRESERVATION OF NATURAL VEGETATION
<input type="checkbox"/>	<input type="checkbox"/>	OTHER (DESCRIBE)

ADDITIONAL COMMENTS:

STRUCTURAL PRACTICES:

TEMPORARY	PERMANENT	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	SILT FENCE
<input type="checkbox"/>	<input type="checkbox"/>	HAY BALES
<input type="checkbox"/>	<input type="checkbox"/>	ROCK BERMS
<input type="checkbox"/>	<input type="checkbox"/>	DIVERSION, INTERCEPTOR OR PERIMETER DIKES
<input type="checkbox"/>	<input type="checkbox"/>	DIVERSION, INTERCEPTOR OR PERIMETER SWALES
<input type="checkbox"/>	<input type="checkbox"/>	PIPE SLOPE DRAIN
<input checked="" type="checkbox"/>	<input type="checkbox"/>	TRIANGULAR SEDIMENT FILTER DIKE
<input type="checkbox"/>	<input type="checkbox"/>	INLET PROTECTION
<input type="checkbox"/>	<input type="checkbox"/>	STONE OUTLET SEDIMENT TRAP
<input type="checkbox"/>	<input type="checkbox"/>	SEDIMENT BASIN (REQUIRED FOR 10 ACRES OR LARGER WHERE ATTAINABLE)
<input type="checkbox"/>	<input type="checkbox"/>	CHECK DAM
<input type="checkbox"/>	<input type="checkbox"/>	TEMPORARY SEDIMENT TANK
<input checked="" type="checkbox"/>	<input type="checkbox"/>	STABILIZED CONSTRUCTION ENTRANCE
<input type="checkbox"/>	<input type="checkbox"/>	SANDBAG BERM
<input type="checkbox"/>	<input type="checkbox"/>	OTHER (DESCRIBE)

ADDITIONAL COMMENTS:

OTHER ADDITIONAL STORM WATER MANAGEMENT FEATURES:

PERMANENT	
<input checked="" type="checkbox"/>	CURB & GUTTER
<input checked="" type="checkbox"/>	STORM SEWER INLETS
<input checked="" type="checkbox"/>	STORM SEWER CULVERTS
<input type="checkbox"/>	STORM WATER DETENTION POND
<input type="checkbox"/>	VELOCITY DISSIPATION DEVICES
<input type="checkbox"/>	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:
 ATTACHED BMP S-11 FROM NCTCOG CONSTRUCTION BMP MANUAL
 OTHER (DESCRIBE):

SOLID WASTE MANAGEMENT:
 ATTACHED BMP W-1 FROM NCTCOG CONSTRUCTION BMP MANUAL
 OTHER (DESCRIBE):

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

HAZARDOUS WASTE MANAGEMENT:
 ATTACHED BMP W-2 FROM NCTCOG CONSTRUCTION BMP MANUAL
 STORAGE AREAS (DESCRIBE):
 OTHER (DESCRIBE):

CONCRETE WASTE MANAGEMENT:
 ATTACHED BMP W-3 FROM NCTCOG CONSTRUCTION BMP MANUAL
 OTHER (DESCRIBE):

SANDBLASTING WASTE MANAGEMENT:
 ATTACHED BMP W-4 FROM NCTCOG CONSTRUCTION BMP MANUAL
 OTHER (DESCRIBE):

DUST REDUCTION MEASURES:
 DISTURBED AREAS DAMPENED PERIODICALLY FOR DUST CONTROL
 EXCESS DIRT ON ADJACENT ROADS REMOVED DAILY
 OTHER (DESCRIBE):

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 SANITARY SEWER, BEGINNING TWO WORKING DAYS AFTER PERMIT APPLICATION.

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.

SIGNATURE: _____ DATE: _____

TITLE: _____

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: _____

TITLE: _____

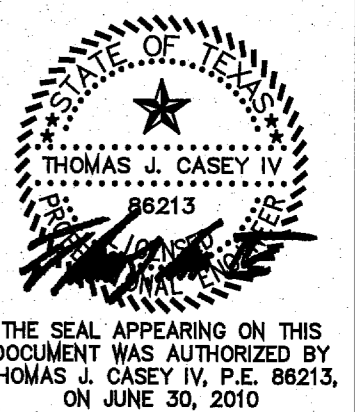
SWPPP DETAILS

SCALE: AS SHOWN



TRINITY CHRISTIAN ACADEMY
DRAINAGE & DRIVE IMPROVEMENTS NEAR THE UPPER SCHOOL

SWPPP DETAILS SHEET 2



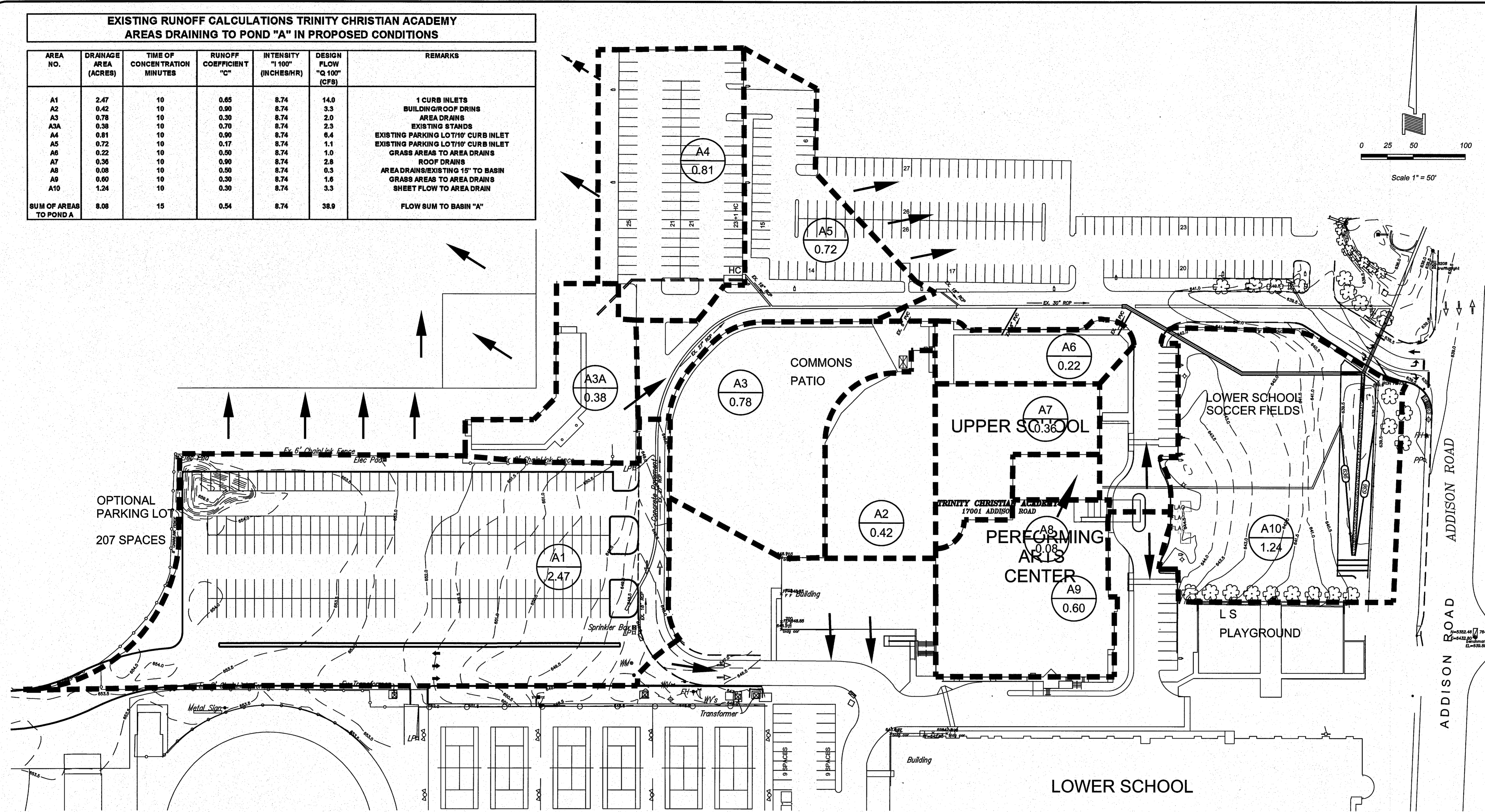
Issue Dates:
Review: June 23, 2010

Construction:
Scale: AS NOTED
Drawn By: TJC
Checked By: CMA
Project No.: 10 - 599.150

Sheet 7
of 15

**EXISTING RUNOFF CALCULATIONS TRINITY CHRISTIAN ACADEMY
AREAS DRAINING TO POND "A" IN PROPOSED CONDITIONS**

AREA NO.	DRAINAGE AREA (ACRES)	TIME OF CONCENTRATION MINUTES	RUNOFF COEFFICIENT "C"	INTENSITY "1"100" (INCHES/HR)	DESIGN FLOW "Q 100" (CFS)	REMARKS
A1	2.47	10	0.65	8.74	14.0	1 CURB INLETS BUILDING/ROOF DRINS AREA DRAINS EXISTING STANDS EXISTING PARKING LOT/10' CURB INLET EXISTING PARKING LOT/10' CURB INLET GRASS AREAS TO AREA DRAINS ROOF DRAINS AREA DRAINS/EXISTING 15" TO BASIN GRASS AREAS TO AREA DRAINS SHEET FLOW TO AREA DRAIN
A2	0.42	10	0.90	8.74	3.3	
A3	0.78	10	0.30	8.74	2.0	
A3A	0.38	10	0.70	8.74	2.3	
A4	0.81	10	0.90	8.74	6.4	
A5	0.72	10	0.37	8.74	1.1	
A6	0.22	10	0.50	8.74	1.0	
A7	0.36	10	0.90	8.74	2.8	
A8	0.08	10	0.50	8.74	0.3	
A9	0.60	10	0.30	8.74	1.6	
A10	1.24	10	0.30	8.74	3.3	
SUM OF AREAS TO POND A	8.08	15	0.54	8.74	38.9	FLOW SUM TO BASIN "A"



**PROPOSED RUNOFF CALCULATIONS TRINITY CHRISTIAN ACADEMY
TO POND A**

AREA NO.	DRAINAGE AREA (ACRES)	TIME OF CONCENTRATION MINUTES	RUNOFF COEFFICIENT "C"	INTENSITY "1"100" (INCHES/HR)	DESIGN FLOW "Q 100" (CFS)	REMARKS
A1	2.47	10	0.90	8.74	19.4	PROPOSED PARKING LOT - 2 CURB INLETS BUILDING/ROOF DRINS FUTURE BUILDING EXPANSION/ROOF DRAINS FUTURE COURTYARD EXPANSION & EXISTING STANDS EXISTING PARKING LOT/10' CURB INLET EXISTING PARKING LOT/10' CURB INLET GRASS AREAS TO AREA DRAINS ROOF DRAINS COURTYARD TO AREA DRAINS/EXISTING 18" TO BASIN ROOF DRAINS TO EXISTING 18" TO BASIN SHEET FLOW TO BASIN - GRASS
A2	0.42	10	0.90	8.74	3.3	
A3	0.78	10	0.90	8.74	6.1	
A3A	0.38	10	0.90	8.74	3.0	
A4	0.81	10	0.90	8.74	6.4	
A5	0.72	10	0.90	8.74	5.7	
A6	0.22	10	0.90	8.74	1.7	
A7	0.36	10	0.90	8.74	2.8	
A8	0.08	10	0.70	8.74	0.5	
A9	0.60	10	0.90	8.74	4.7	
A10	1.24	10	0.50	8.74	5.3	
SUM OF AREAS TO POND A	8.08	15	0.83	8.74	59.7	FLOW SUM TO BASIN "A"

CAUTION!!!!
CONTACT:
DIG TESS 1-800-344-8377
ATMOS 1-800-344-8377
AT&T 1-800-344-8377
SOUTHWESTERN BELL 1-800-344-8377
TOWN OF ADDISON 972-450-2871
AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

BENCHMARK:
TOWN OF ADDISON BENCHMARK 6, BRASS DISC SETON TOP OF EXISTING INLET, LOCATED ON THE EAST SIDE OF ADDISON ROAD, DIRECTLY EAST OF THE LOWER SCHOOL PLAYGROUNDS.
ELEV. = 639.88'

GLENN ENGINEERING

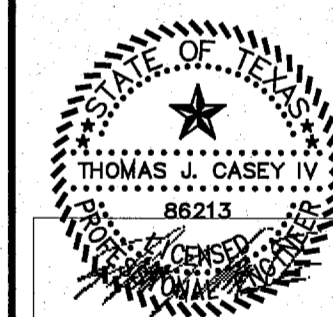


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TRINITY CHRISTIAN ACADEMY

DRAINAGE & DRIVE
IMPROVEMENTS NEAR
THE UPPER SCHOOL

DRAINAGE
AREA
MAP



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY THOMAS J. CASEY IV, P.E. 86213, ON JUNE 23, 2010

Issue Dates:
Review: June 23, 2010

Construction:

Scale: AS NOTED

Drawn By: TJC

Checked By: CMA

Project No.: 10 - 599.150

Sheet 8

of 15

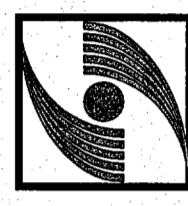
**COMPUTATION SHEET
HYDRAULIC COMPUTATIONS FOR STORM DRAINS**

STORM DRAIN HYDRAULIC CALCULATIONS TABLE BASED ON CITY OF DALLAS DETENTION METHOD WITH STARTING W.S. ELEV. = 638.95

FROM	TO	Pipe Length feet	Drainage Area			Runoff "C"	Incr. CA	Total CA	Time Of Concentration			5-year Intensity in/hr	100-year Intensity in/hr	Q-5 Runoff cfs	Q-100 Runoff cfs	Inlet Bypass cfs	Q Pipe Size in	Pipe Manning's n	Sf	HEAD LOSS CALCULATIONS										Design HGL Elev.	Invert Elev. FROM	TO	T/C ELEV.	COMMENTS
			No.	Area	Total Area				Inlet min.	Travel min.	Total min.									D/S Elev.	U/S Elev.	V1 (in) ft/sec	V2 (out) ft/sec	V1^2/2G ft	V2^2/2G ft	K1	KV1^2/2G ft	Hk ft	HGL Elev.					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
LINE "A" PRIVATE																																		
653	1014	361.0	A1	2.47	2.47	0.90	2.22	2.22	10.00	NA	10.00	5.74	8.74	12.8	19.4	0.0	19.4	27	0.013	0.0039	645.19	646.60	NA	4.86	NA	0.37	1.25	0.46	0.46	647.06	640.88	642.32	647.7 +/-	FUTURE CURB INLET TC = 647.7 +/-
520.0	653.0	133.0	A3A & A4	1.19	3.66	0.90	3.29	3.29	10.00	NA	10.00	5.74	8.74	18.9	28.8	0.0	28.8	27	0.013	0.0068	643.59	644.73	7.24	9.61	0.81	1.43	0.75	0.61	0.82	644.73	639.01	640.88	NA	
470.0	520.0	50.0	A2 & A3	1.20	4.86	0.90	1.08	4.37	10.00	NA	10.00	5.74	8.74	25.1	38.2	0.0	38.2	27	0.013	0.0152	642.01	642.77	9.61	8.94	1.43	1.24	0.75	1.08	0.17	642.77	638.06	639.01	NA	BRANCH LINE EXISTING INLET TC = 645.8 +/- FROM CITY OF DALLAS HL = V2^2/4G - V1^2/4G
313.1	470.0	156.9	A5	0.72	5.58	0.90	0.85	5.02	10.00	NA	10.00	5.74	8.74	28.8	43.9	0.0	43.9	30	0.013	0.0114	640.05	641.84	8.94	5.03	1.24	0.39	NA	NA	-0.42	641.84	635.81	638.06	NA	
181.0	313.1	132.1	A6 & A7	0.58	6.16	0.90	0.52	5.54	10.00	NA	10.00	5.74	8.74	31.8	48.4	0.0	48.4	42	0.013	0.0023	640.17	640.47	5.03	5.03	0.39	0.39	0.25	0.10	0.29	640.47	635.06	635.81	NA	
85.7	181.0	95.3	NA	NA	6.16	NA	NA	NA	10.00	NA	10.00	5.74	8.74	31.8	48.4	0.0	48.4	42	0.013	0.0023	639.85	640.07	5.03	NA	0.39	NA	0.25	0.10	0.10	640.07	634.50	635.06	NA	
64.0	85.7	21.7	A8, A9 & A10	1.92	8.08	0.67	1.29	6.83	10.00	NA	10.00	5.74	8.74	39.2	59.7	0.0	59.7	42	0.013	0.0000	639.85	639.85	NA	NA	NA	NA	NA	NA	NA	639.85	634.28	634.50	NA	
0.0	64.0	64.0	ROUTED THROUGH DETENTION BASIN	NA	8.08	NA	NA	NA	10.00	NA	10.00	5.74	8.74	22.3	36.4	0.0	36.4	30	0.013	0.0035	636.72	639.85	10.03	5.3	1.56	0.44	0.23	0.36	NA	639.85	633.64	634.28	NA	

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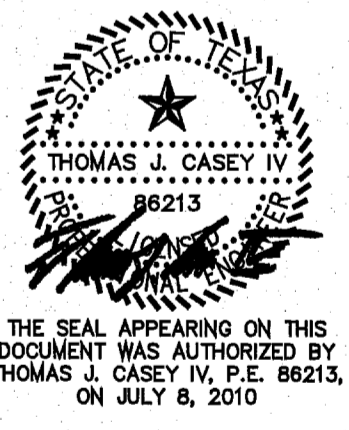
FAX 972-717-2176
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105 DECKER COURT-SUITE 910
F - 303



TRINITY CHRISTIAN ACADEMY

DRAINAGE & DRIVE
IMPROVEMENTS NEAR
THE UPPER SCHOOL

DRAINAGE
CALCS



Issue Dates:
Review: June 23, 2010
Comments: June 30, 2010
Comments: July 2, 2010
Comments: July 8, 2010

Construction: AS NOTED

Drawn By: TJC

Checked By: CMA

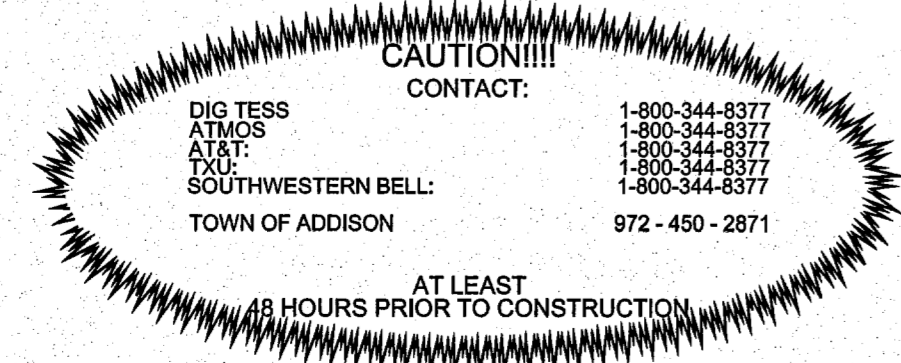
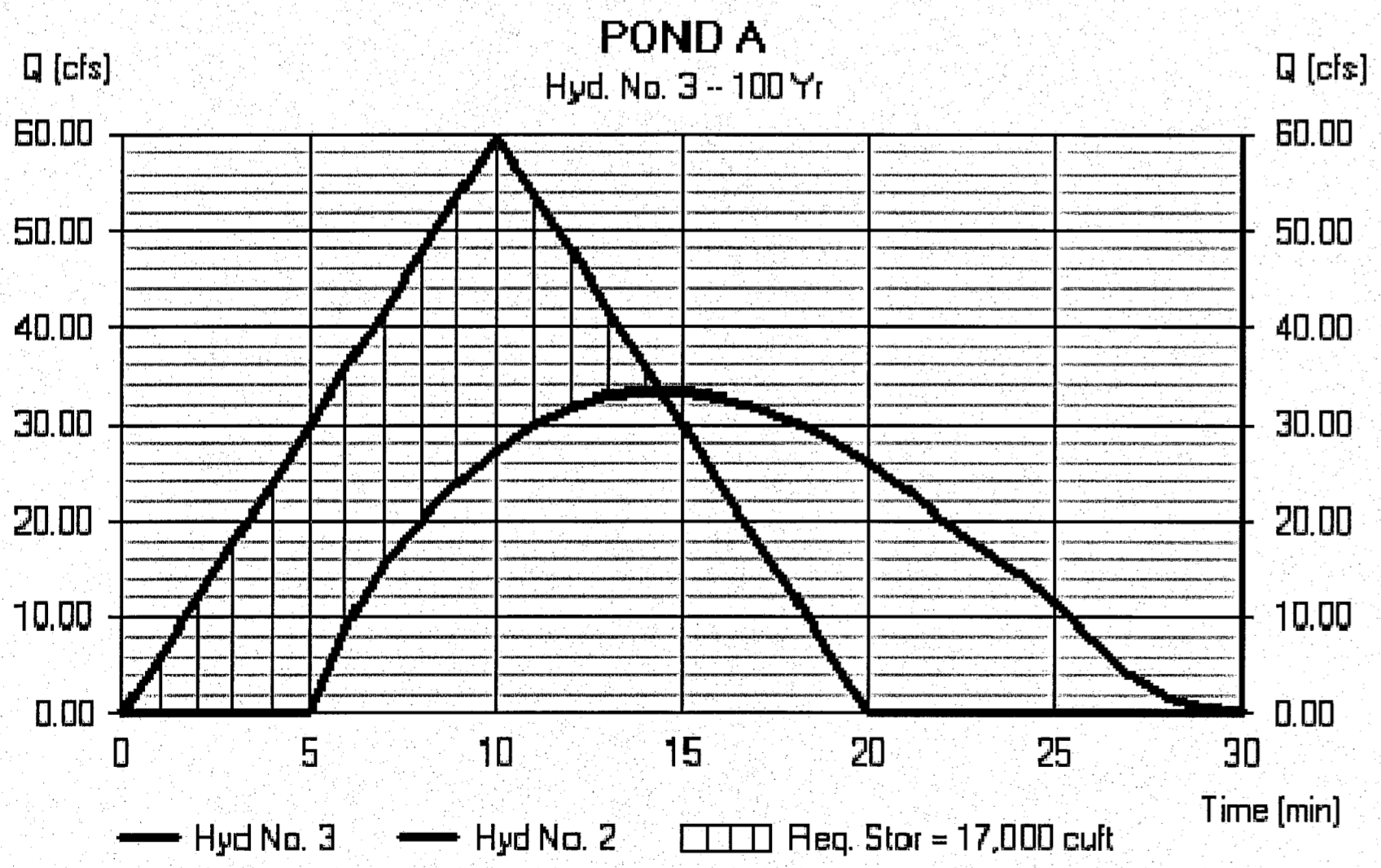
Project No.: 10 - 599-150

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of 15

**HYDRAFLOW HYDROGRAPHS INFORMATION
(IF 26.5" ORIFICE PLATE WAS REMOVED)**

EXECUTIVE SUMMARY - POND "A" - 100 YEAR STORM

BASIN ANALYSIS METHOD	QMAX TO PROPOSED BASIN (CFS)	QMAX EXISTING (CFS)	QMAX OUT OF BASIN (ROUTED) (CFS)	MAX. 100 YR WATER SURFACE ELEVATION	MAX. STORAGE C.F.
TAILWATER ANALYSIS, ELEV. 638.72	59.7	38.9	33.4	638.71	17,000
NO TAILWATER ANALYSIS	59.7	38.9	36.3	637.91	12,226



BENCHMARK:
TOWN OF ADDISON BENCHMARK 6, BRASS DISC SETON TOP OF EXISTING INLET, LOCATED ON THE EAST SIDE OF ADDISON ROAD, DIRECTLY EAST OF THE LOWER SCHOOL PLAYGROUNDS.
ELEV. = 639.88'

**OUTLET RATING - NO TAILWATER - 26.5" ORIFICE PLATE
(DALLAS METHOD)**

$$Q = C * A * \sqrt{2 * G * H}$$

WHERE:

C = 0.60

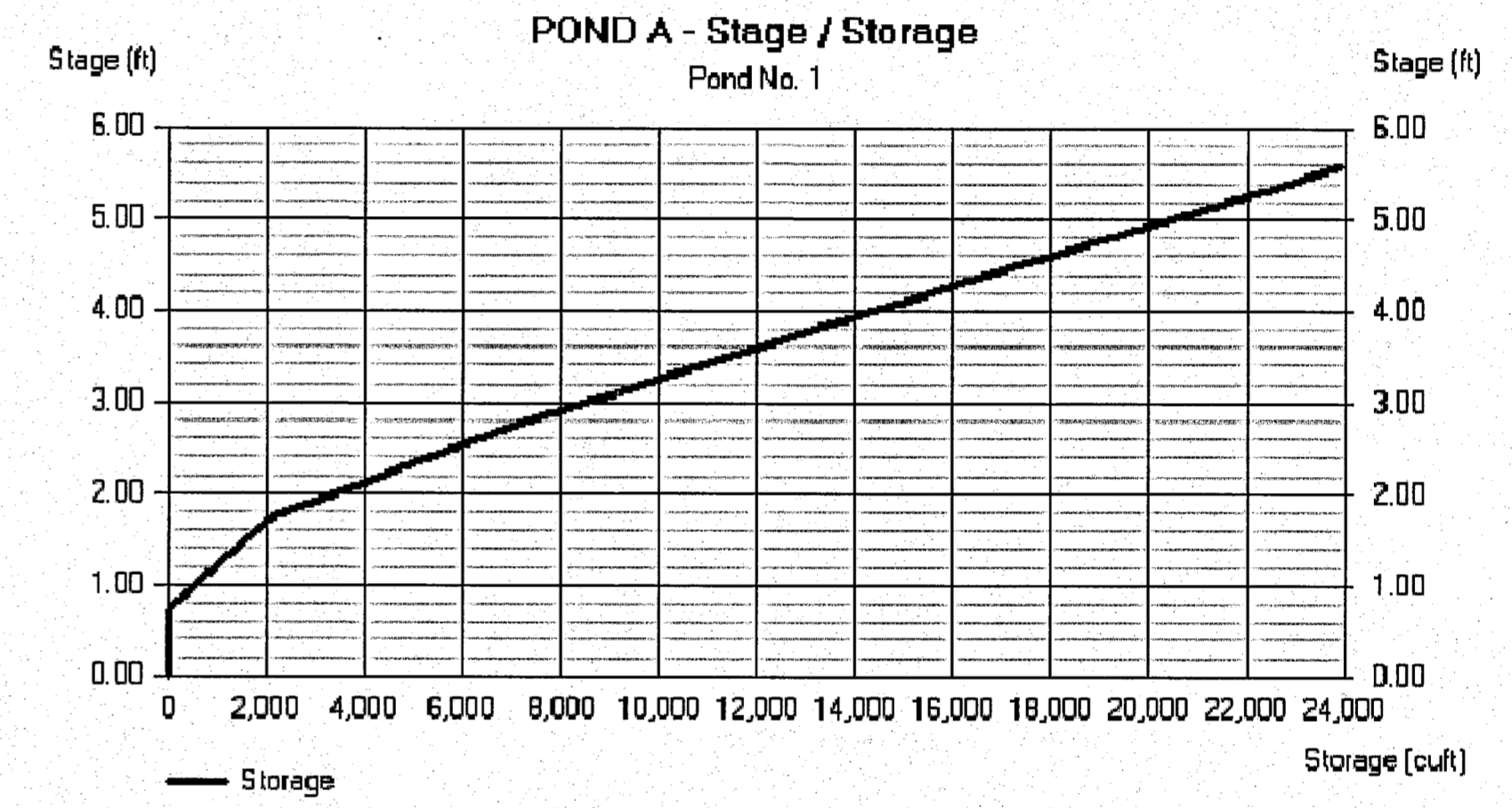
A = 3.82 S.F.

H = 4.47 FT (MAX. ELEV. ABOVE CENTERLINE)

G = 32.2 FPS/S

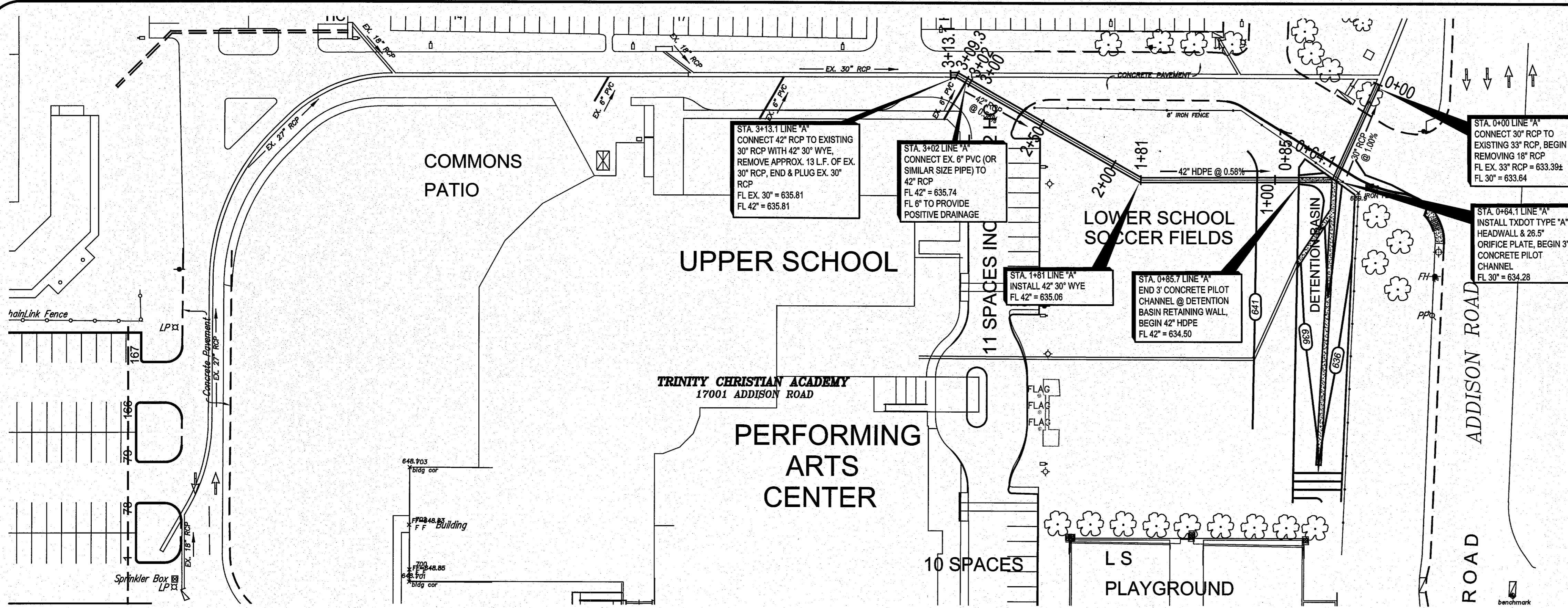
Q = 38.9 CFS

**POND A STAGE STORAGE INFORMATION
STAGE 0 = ELEVATION 634.28
(COMMON TO BOTH DESIGN METHODS)**



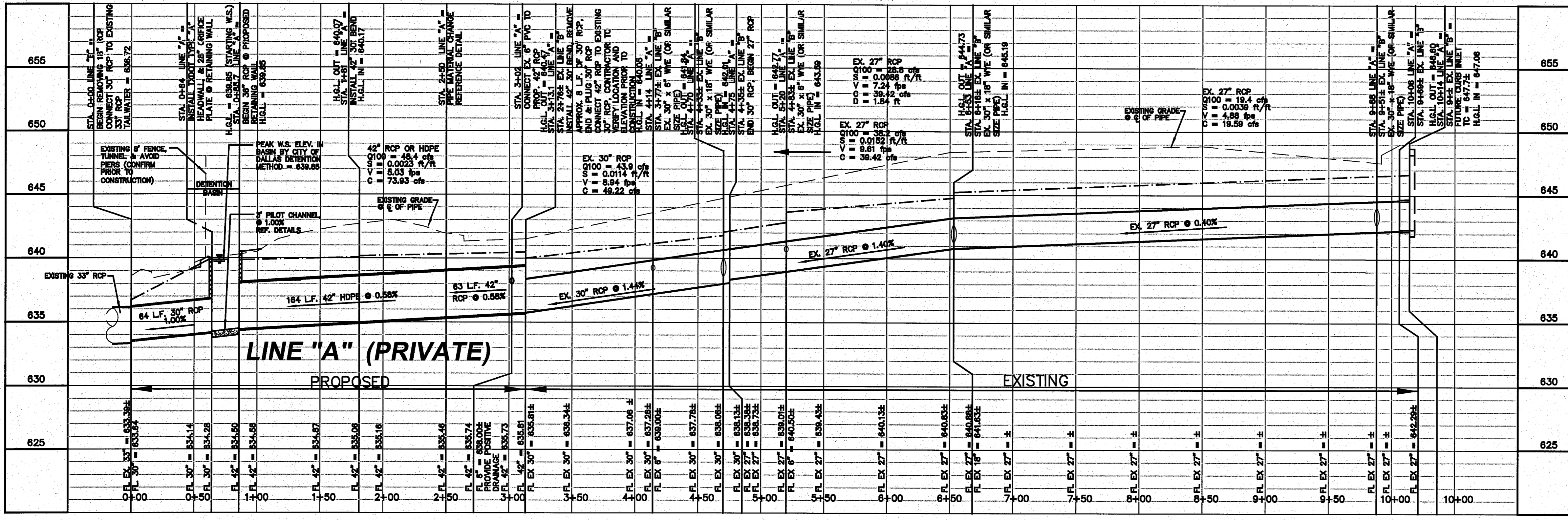
**DALLAS METHOD DETENTION BASIN VOLUME CALCULATIONS
TRINITY CHRISTIAN ACADEMY**

DURATION (Hours)	DURATION (Minutes)	Rainfall Intensity (in/hr)	Inflow Rate (cfs)	Inflow Volume (cf)	Outflow Rate (cfs)	Outflow Volume (cf)	Inflow - Outflow Volume (cf)
0.17	10	8.74	59.7	36820	38.9	23940	12480
0.25	15	7.52	51.4	46230	38.9	29175	17055
0.33	20	6.80	46.4	55738	38.9	35010	20728
0.50	30	5.74	39.2	70574	38.9	46680	23894
0.67	40	4.94	33.7	80984	38.9	58350	22634
0.83	50	4.37	29.9	89550	38.9	70020	19530
1.00	60	3.90	26.6	95903	38.9	81690	14213
1.17	70	3.65	24.9	104714	38.9	93360	11354
1.33	80	3.35	22.9	109837	38.9	105030	4807
1.50	90	3.08	21.0	113608	38.9	116700	-3092
1.67	100	2.87	19.6	117624	38.9	128370	-10746
1.83	110	2.70	18.4	121722	38.9	140040	-18318
2.00	120	2.53	17.3	124427	38.9	151710	-27283



- ### GENERAL STORM SEWER NOTES
- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THESE PLANS AND TOWN OF ADDISON STANDARDS AND SPECIFICATIONS.
 - PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL MAKE CERTAIN THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY. THE TOWN ENGINEER'S DECISION SHALL APPLY.
 - IN THE EVENT AN ITEM IS NOT COVERED IN THE TOWN OF ADDISON SPECIFICATIONS, THE TOWN ENGINEER'S DECISION SHALL APPLY.
 - BARRICADING, TRAFFIC CONTROL, AND PROJECT SIGNS SHALL CONFORM TO "STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION BARRICADING AND CONSTRUCTION STANDARDS".
 - THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF ANY CONSTRUCTION. IN THE EVENT OF ANY CONFLICT AND PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, IMMEDIATELY NOTIFY ENGINEER. MINOR ADJUSTMENTS OF FINISH GRADE TO ACCOMPLISH SPOT DRAINAGE ARE ACCEPTABLE, IF NECESSARY, UPON PRIOR APPROVAL OF ENGINEER. PAVING INSTALLED SHALL FLUSH OUT AT ANY JUNCTURE WITH EXISTING PAVING.
 - THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED ON FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR UTILITIES PRIOR TO STARTING CONSTRUCTION.
 - CONTRACTOR SHALL VERIFY ALL EXISTING INVERTS, RIM ELEVATIONS AND SIZES PRIOR TO CONSTRUCTION.
 - ALL PVC PIPE SHALL BE SCH 40 OR APPROVED EQUAL.
 - ALL RCP SHALL BE CLASS III, UNLESS OTHERWISE NOTED.

STORM SEWER PLAN
1" = 40' H



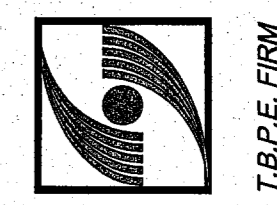
STORM SEWER PROFILE
SCALE: 1" = 4' V
1" = 40' H

CAUTION!!!!
CONTACT:
DIG TESS 1-800-344-8377
ATMCS 1-800-344-8377
LST 1-800-344-8377
SOUTHWESTERN BELL 1-800-344-8377
TOWN OF ADDISON 972-450-2871

AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

BENCHMARK:
TOWN OF ADDISON BENCHMARK 6, BRASS DISC SETON TOP OF EXISTING INLET, LOCATED ON THE EAST SIDE OF ADDISON ROAD, DIRECTLY EAST OF THE LOWER SCHOOL PLAYGROUNDS.
ELEV. = 639.88'

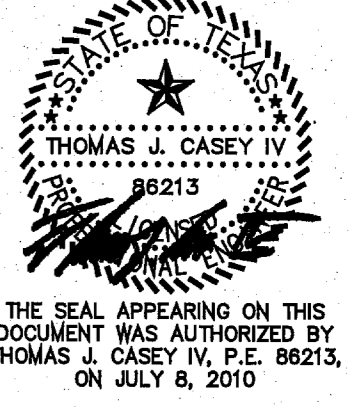
GLENN ENGINEERING



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105 DECKER COURT, SUITE 910
IRVING, TEXAS 75062
T.B.P.E. FIRM # F-303

TRINITY CHRISTIAN ACADEMY
DRAINAGE & DRIVE
IMPROVEMENTS NEAR
THE UPPER SCHOOL

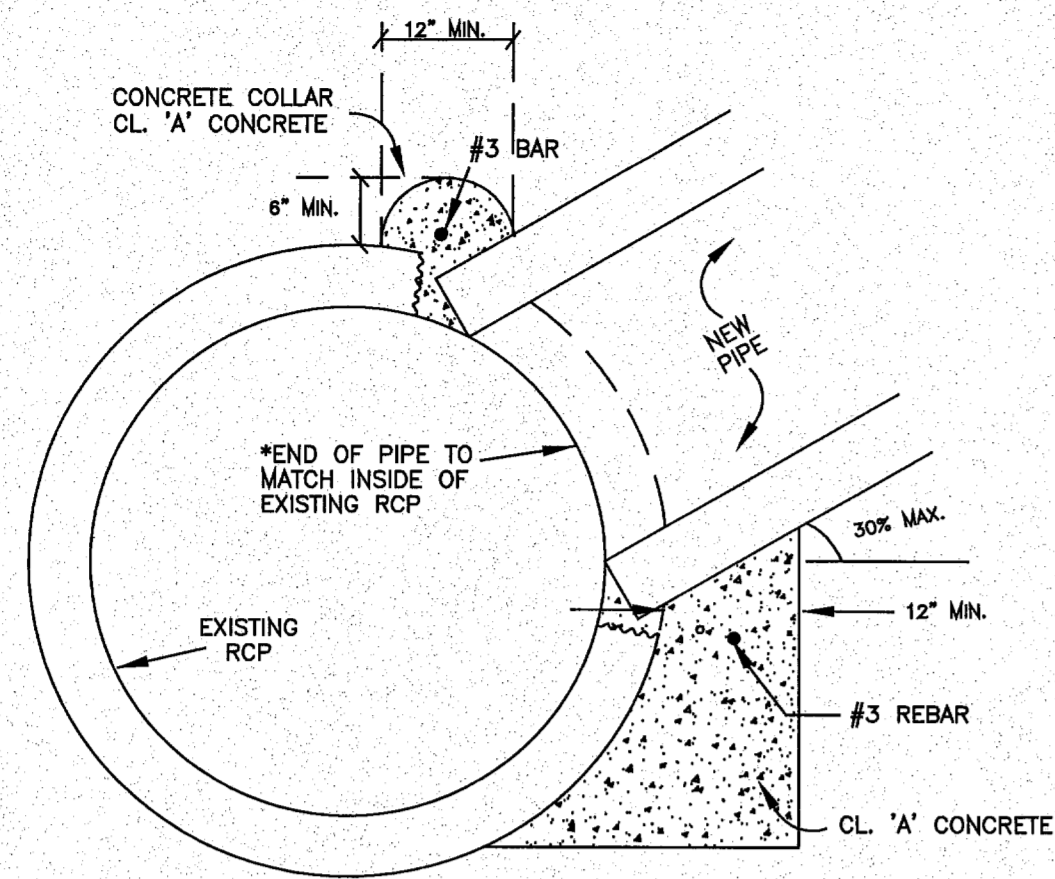
STORM
SEWER
PLAN
& PROFILE



Issue Dates:
Review: June 23, 2010
Comments: June 30, 2010
Comments: July 2, 2010
Comments: July 8, 2010

Construction:
Scale: AS NOTED
Drawn By: TJC
Checked By: CMA
Project No.: 10 - 599.150

Sheet 10
of 15

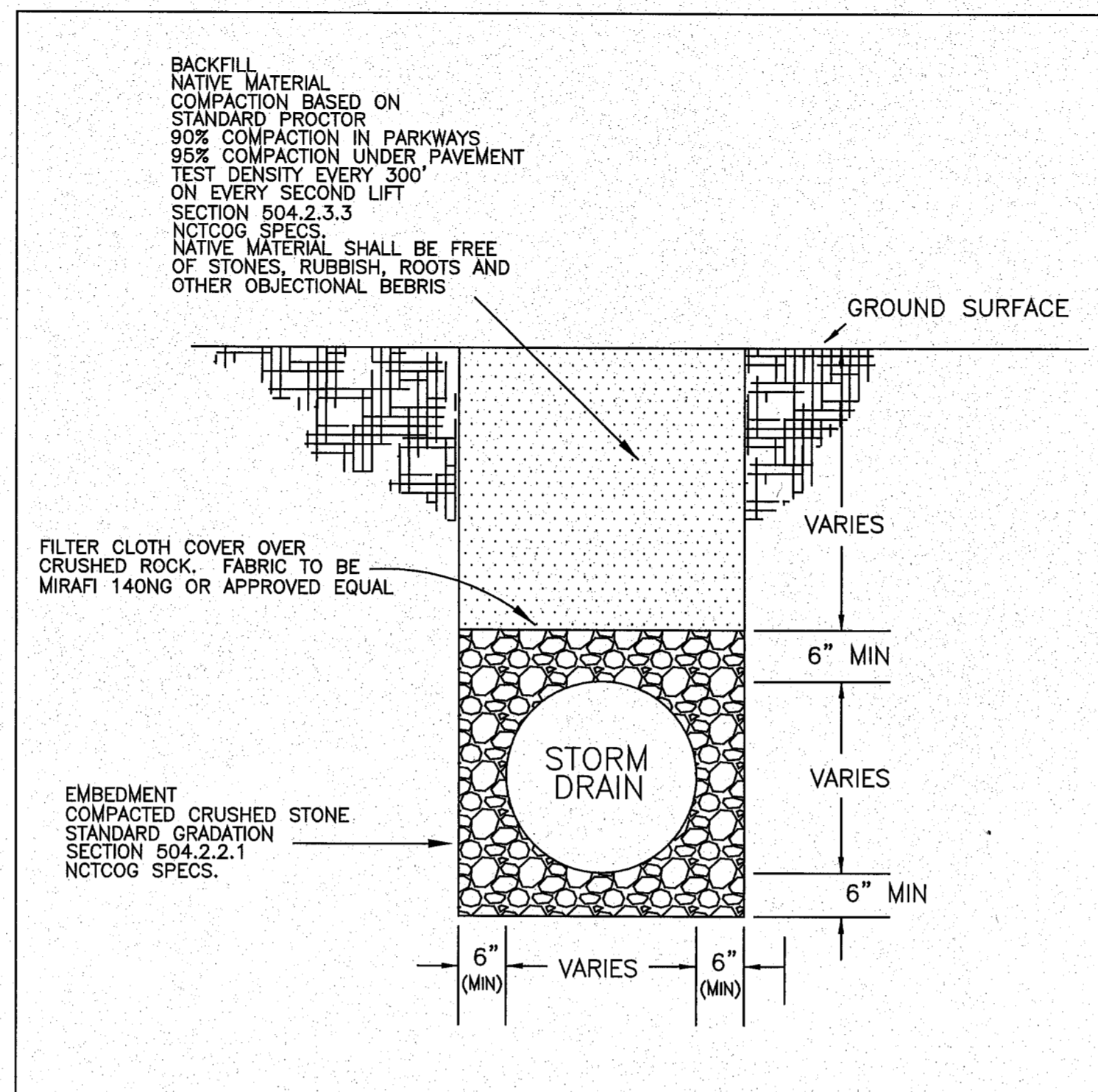


* REMOVAL OF PLUG FROM EXISTING RCP TO BE ACCOMPLISHED BY USING A MASONRY DRILL AT A SPACING EQUAL TO THE DRILL BIT DIAMETER IN A CIRCULAR PATTERN OR A MASONRY SAW IN AN OCTAGONAL PATTERN PER DETAIL.

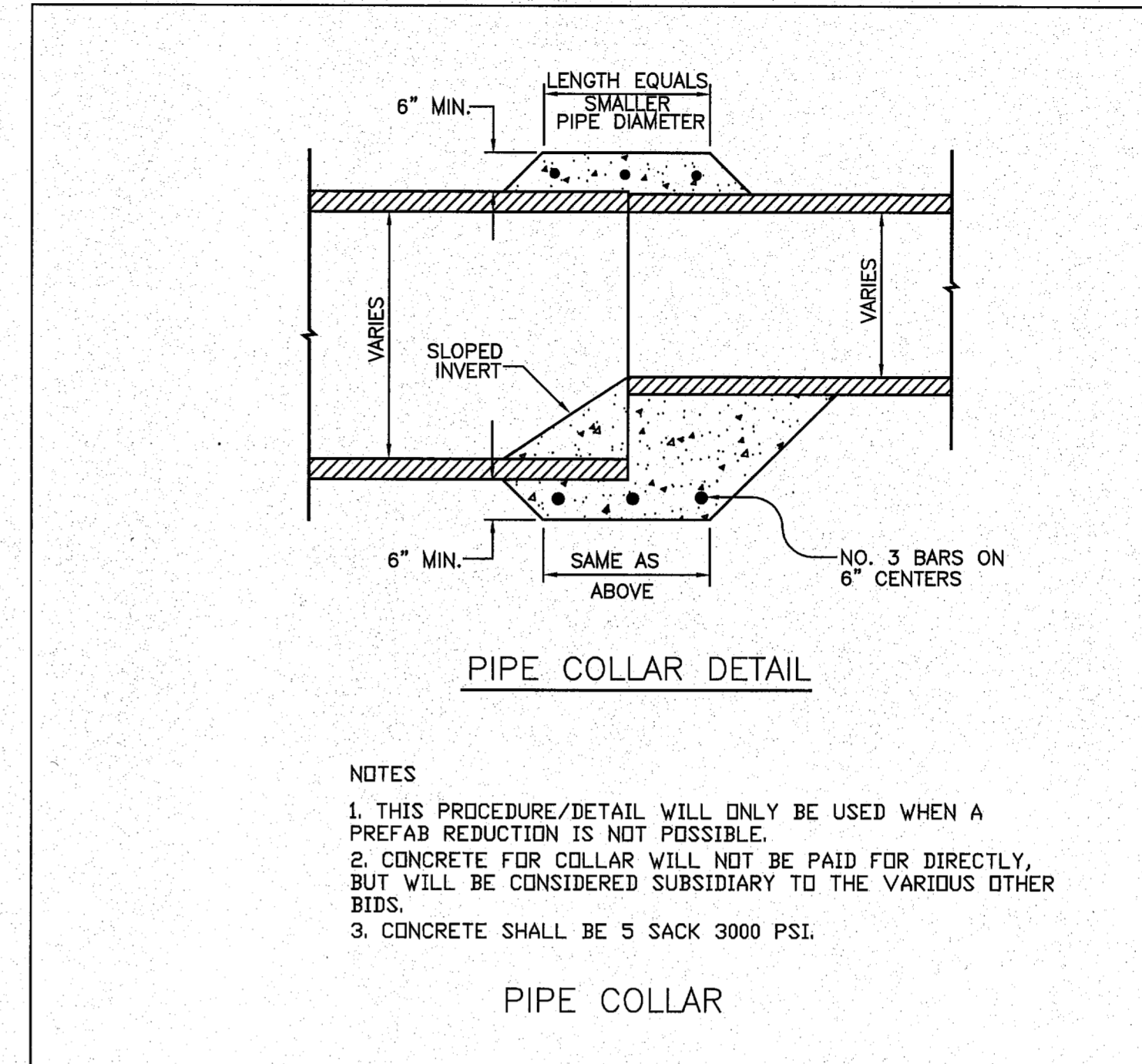


STORM DRAIN CONNECTION TO EXISTING RCP
NTS

THIS DETAIL APPLICABLE ONLY FOR APPLICATIONS WHERE NEW PIPE IS LESS THAN OR EQUAL TO ONE HALF THE DIAMETER OF THE EXISTING PIPE. FOR APPLICATIONS WHERE THE NEW PIPE IS GREATER THAN HALF THE SIZE OF THE EXISTING PIPE, A PREFABRICATED WYE SHALL BE USED.



STORM DRAIN EMBEDMENT

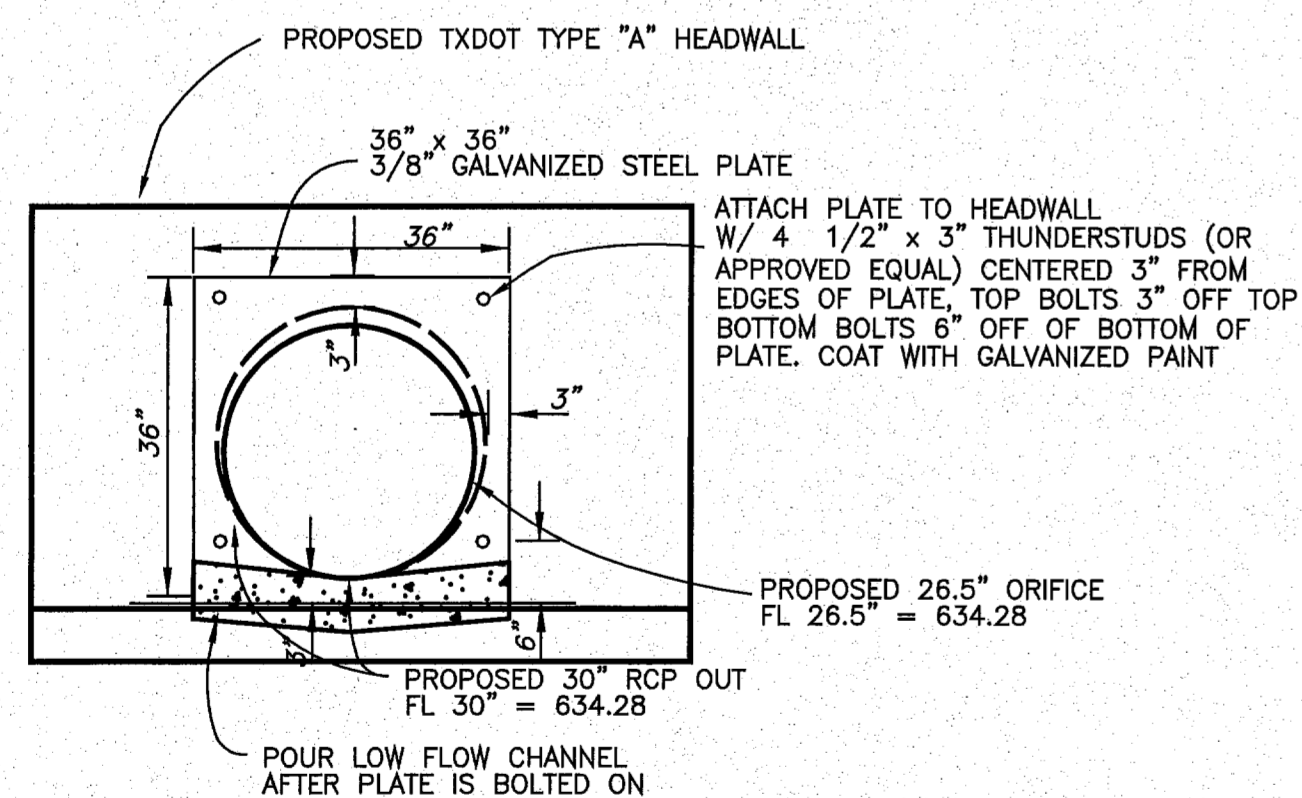


PIPE COLLAR DETAIL

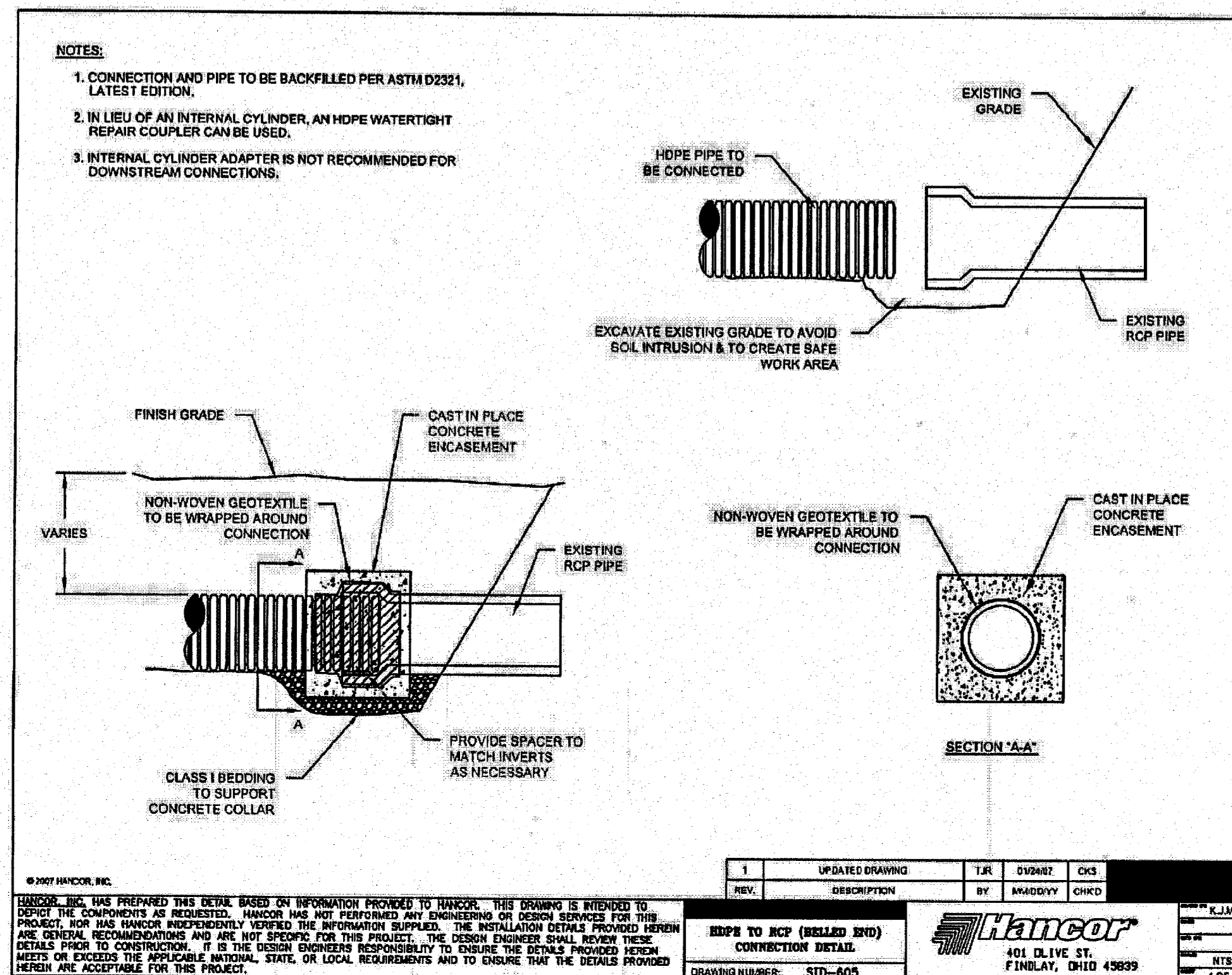
NOTES

1. THIS PROCEDURE/DETAIL WILL ONLY BE USED WHEN A PREFAB REDUCTION IS NOT POSSIBLE.
2. CONCRETE FOR COLLAR WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO THE VARIOUS OTHER BIDS.
3. CONCRETE SHALL BE 5 SACK 3000 PSI.

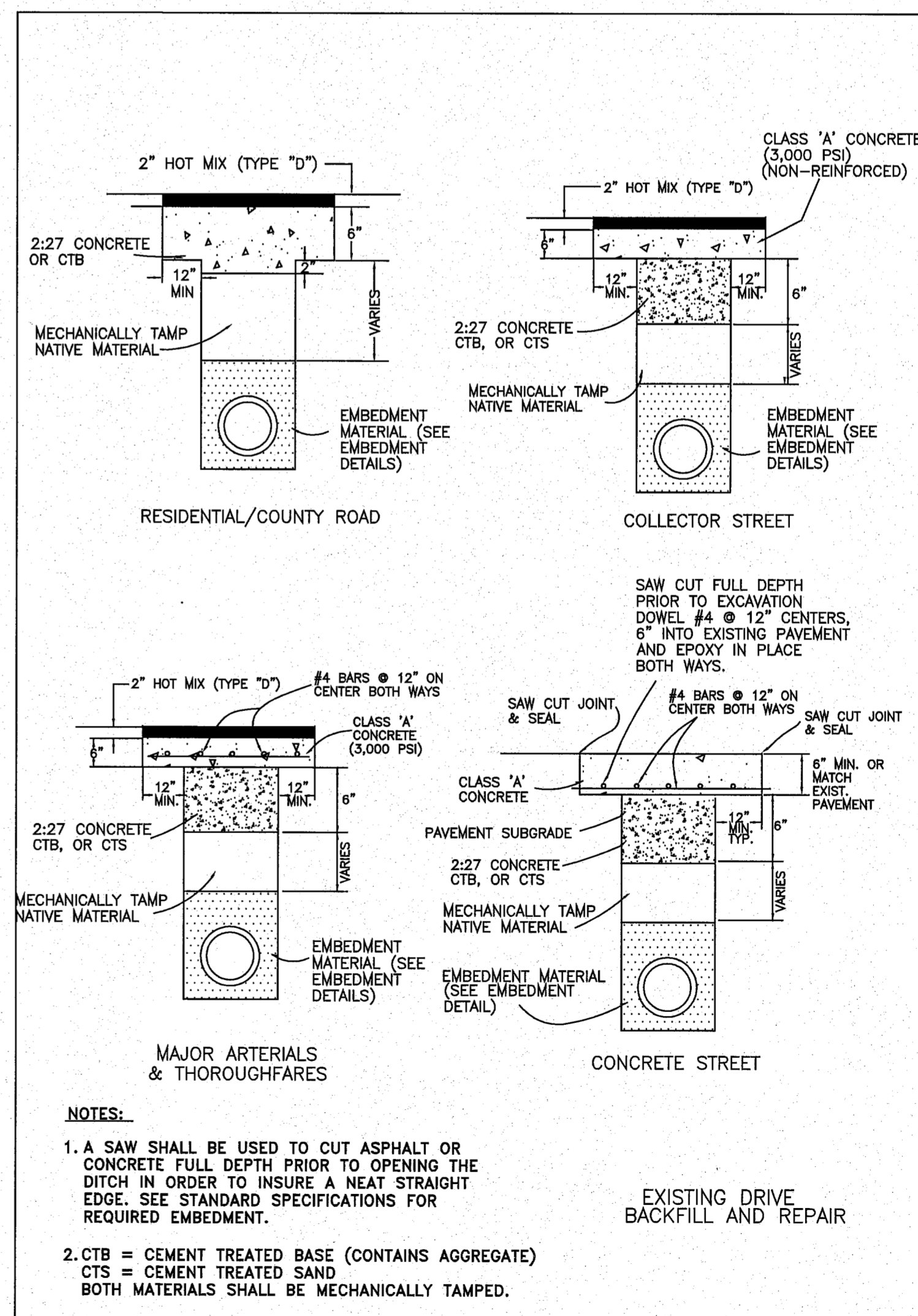
PIPE COLLAR



ORIFICE PLATE DETAIL



REV	DESCRIPTION	BY	DATE	CHKD
1	UPDATED DRAWING	TR	02/04/12	CKG
2	PIPE TO RCP (BELLED END) CONNECTION DETAIL	TR	02/04/12	CKG

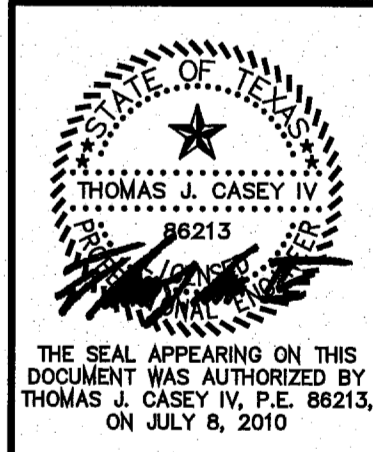


NOTES

1. A SAW SHALL BE USED TO CUT ASPHALT OR CONCRETE FULL DEPTH PRIOR TO OPENING THE DITCH IN ORDER TO INSURE A NEAT STRAIGHT EDGE. SEE STANDARD SPECIFICATIONS FOR REQUIRED EMBEDMENT.
2. CTB = CEMENT TREATED BASE (CONTAINS AGGREGATE)
CTS = CEMENT TREATED SAND
BOTH MATERIALS SHALL BE MECHANICALLY TAMPED.

EXISTING DRIVE BACKFILL AND REPAIR

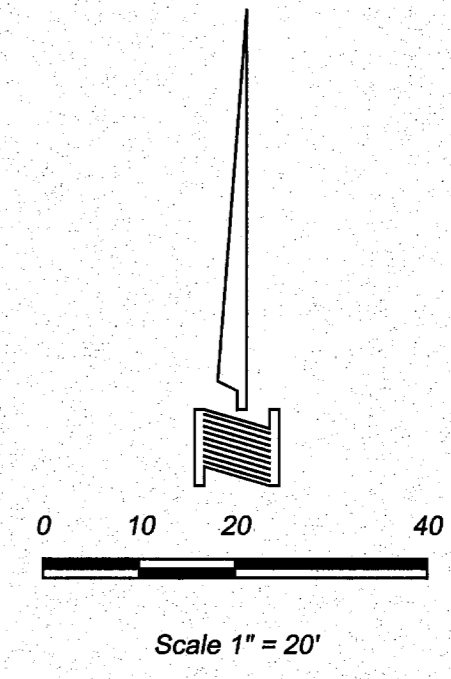
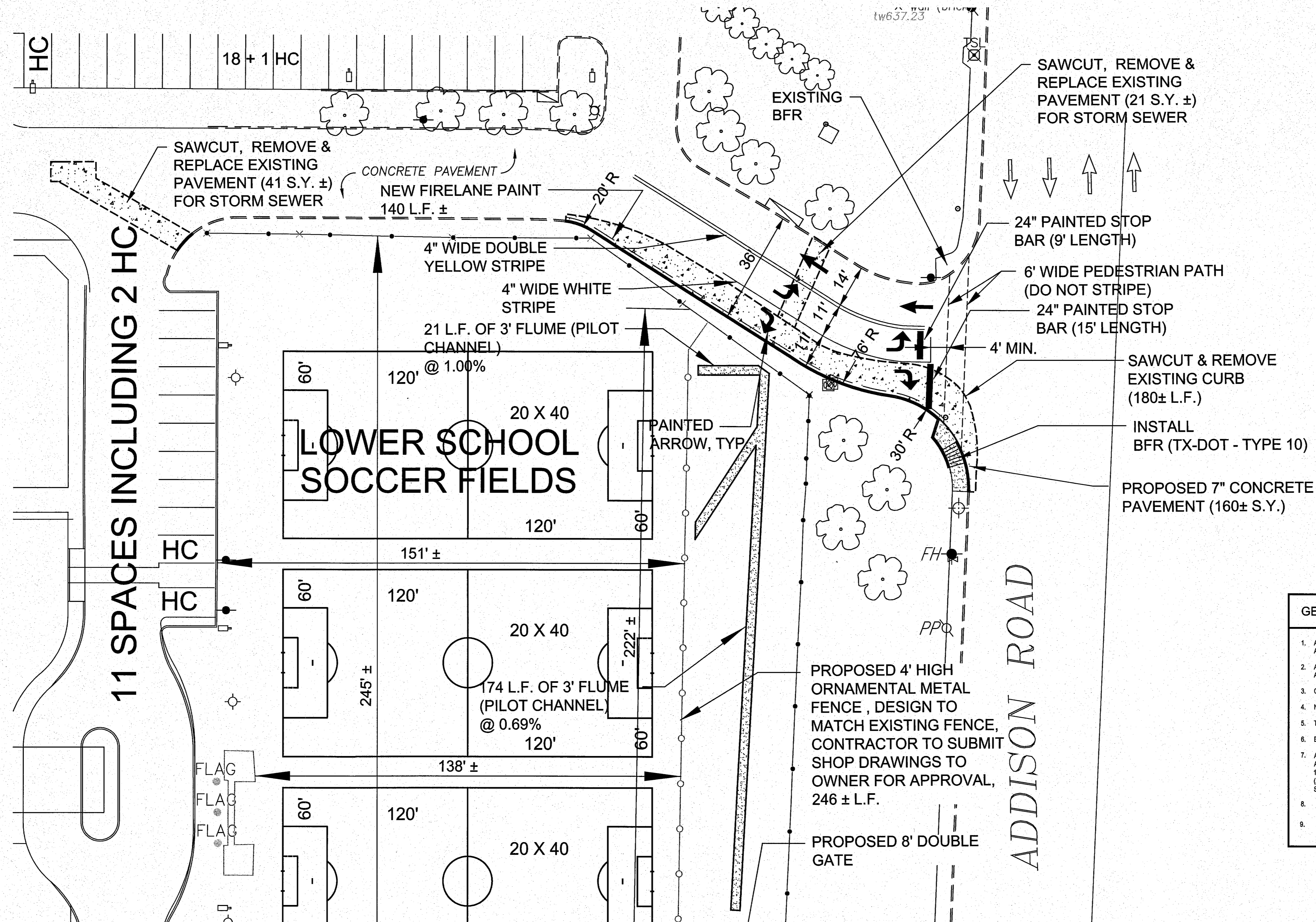
Construction: _____
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Drawn By: TJC
Checked By: CMA
Project No.: 10 - 599.150



Issue Dates:
Review: June 23, 2010
Comments: June 30, 2010
Comments: July 2, 2010
Comments: July 8, 2010

BENCHMARK:
TOWN OF ADDISON BENCHMARK 6, BRASS DISC SETON TOP OF EXISTING INLET, LOCATED ON THE EAST SIDE OF ADDISON ROAD, DIRECTLY EAST OF THE LOWER SCHOOL PLAYGROUNDS.
ELEV. = 639.88'

CAUTION!!!
CONTACT: 1-800-344-8377
DIG TESS 1-800-344-8377
ATMDS 1-800-344-8377
AT&T 1-800-344-8377
SOUTHWESTERN BELL 1-800-344-8377
TOWN OF ADDISON 972-450-2871
AT LEAST 48 HOURS PRIOR TO CONSTRUCTION



PAVING LEGEND	
	PROPOSED 7" CONCRETE PAVEMENT REINFORCED WITH #3 REBAR ON 18" CENTERS EACH WAY ON SUBGRADE COMPACTED TO 95%
	PROPOSED 4" REINFORCED CONCRETE SIDEWALK WITH #3 REBAR ON 18" CENTERS EACH WAY

GENERAL PAVING NOTES	
1.	ALL CONCRETE PAVEMENT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3600 PSI AT 28 DAYS WITH NO 3 REINFORCING BARS SPACED AT 18-INCH O.C.E.W. MINIMUM.
2.	ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE TOWN OF ADDISON STANDARD DETAILS AND SPECIFICATIONS.
3.	CONTRACTOR TO VERIFY EXISTING PAVEMENT ELEVATIONS PRIOR TO CONSTRUCTION.
4.	NEW PAVING INSTALLED SHALL "FLUSH-OUT" AT ANY JUNCTURE WITH EXISTING PAVING.
5.	TOWN SIDEWALK SHALL COMPLY WITH TOWN DETAIL.
6.	BARRIER FREE RAMPS SHALL COMPLY WITH TX-DOT DETAIL.
7.	ALL SUBGRADE UNDER PAVEMENT SHALL "BE SHOULD BE PROOFROLLED AND THE UPPER 6 INCHES OF THE FINAL SUBGRADE COMPACTED TO 95% - 100% OF THE MATERIAL'S MAXIMUM STANDARD PROCTOR DRY DENSITY (ASTM D-698), AT A MOISTURE CONTENT OF 0 TO +4 PERCENTAGE POINTS OF STANDARD PROCTOR OPTIMUM MOISTURE CONTENT."
8.	NO VERTICAL FACILITIES OR METER BOXES WILL BE ALLOWED TO BE LOCATED WITHIN THE SIDEWALKS.
9.	ALL SAWCUTS FOR INSTALLATION OF NEW CONCRETE CURB SECTIONS TO BE FULL DEPTH.

NOTE: NEW FIRELANE PAINT ON SOUTH SIDE OF ENTRANCE SHALL CONFORM TO TOWN OF ADDISON STANDARDS (MATCH EXISTING FIRELANE PAINTING).

CAUTION!!!!

DIG TESS
ATMOS
AT&T
TXU
SOUTHWESTERN BELL
TOWN OF ADDISON

CONTACT:
1-800-344-8377
1-800-344-8377
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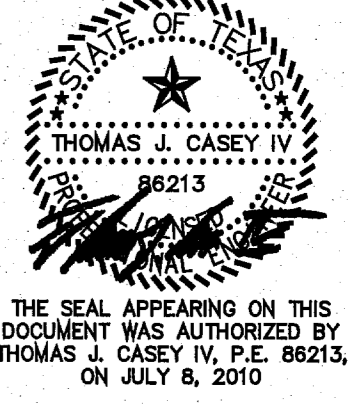
GLENN ENGINEERING

PHONE 972-717-5151
105 DECKER COURT SUITE 910
IRVING, TEXAS 75062

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

TRINITY CHRISTIAN ACADEMY
DRAINAGE & DRIVE
IMPROVEMENTS NEAR
THE UPPER SCHOOL

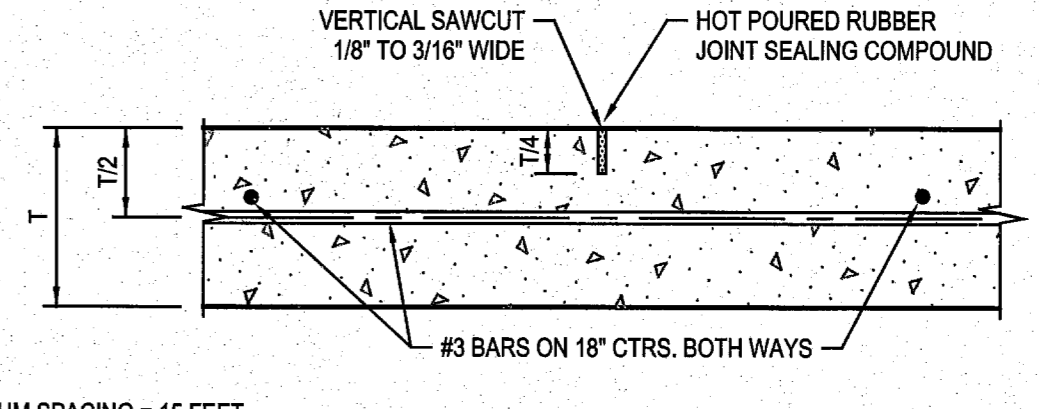
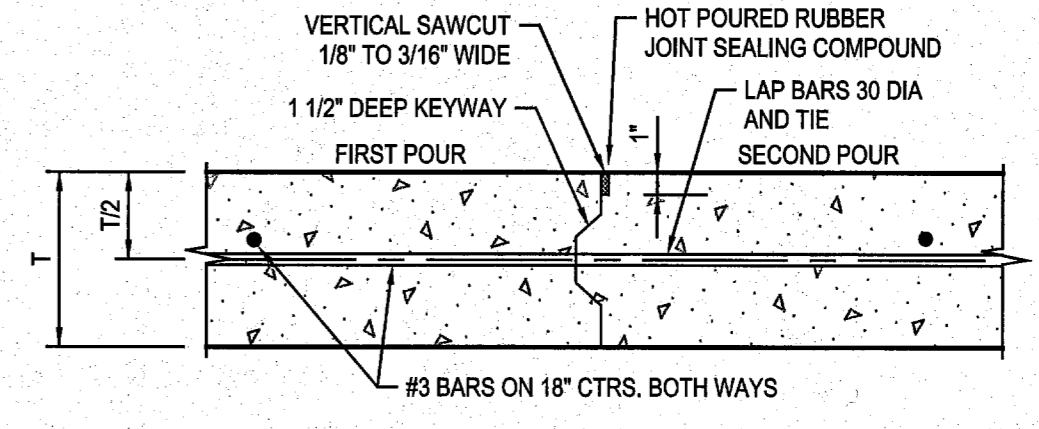
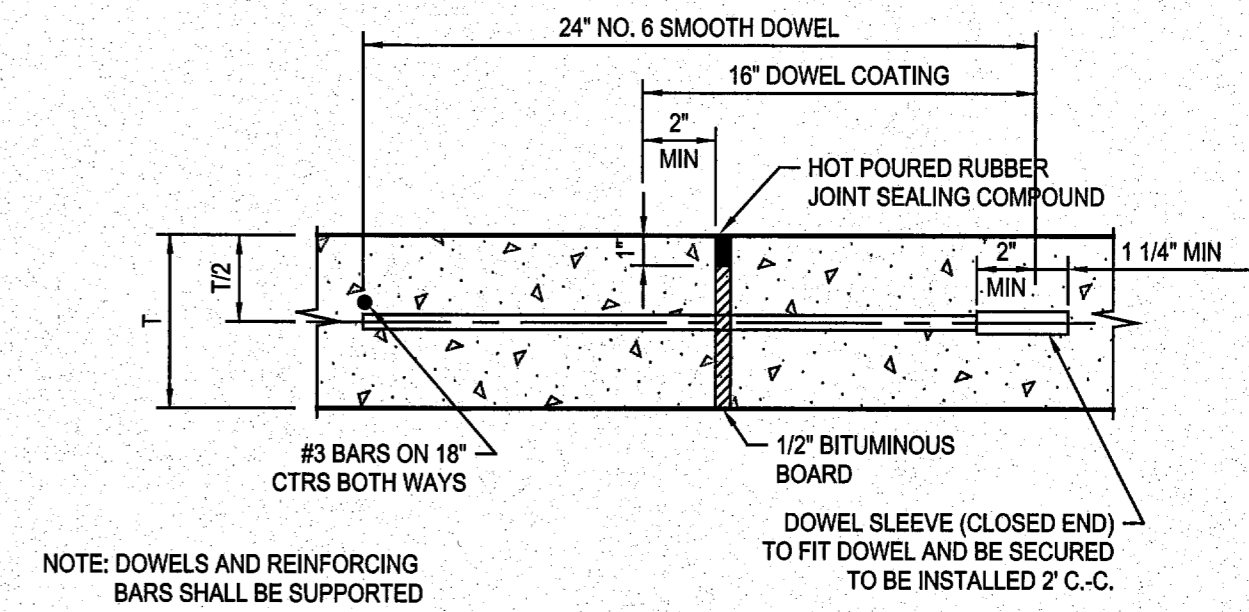
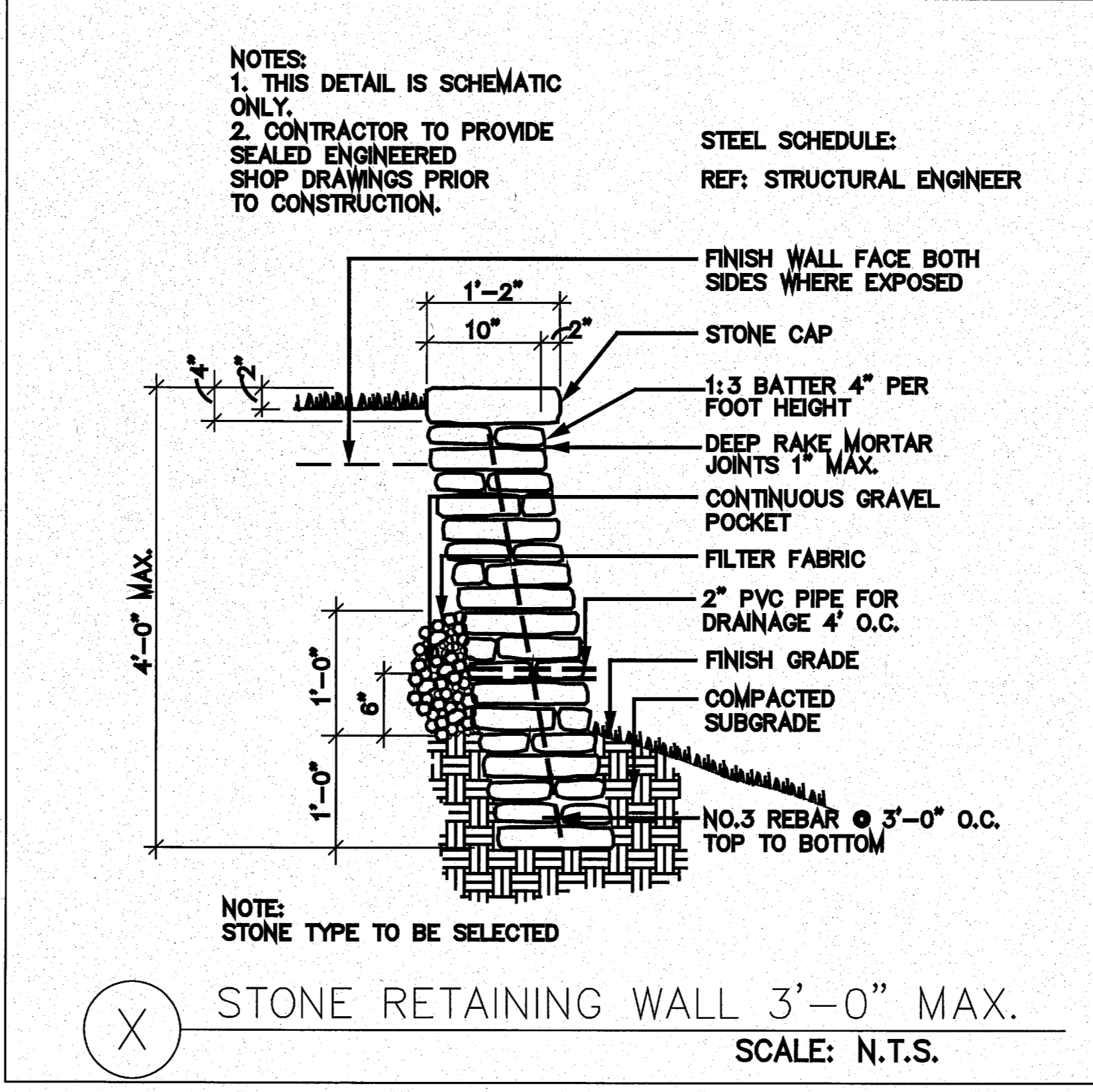
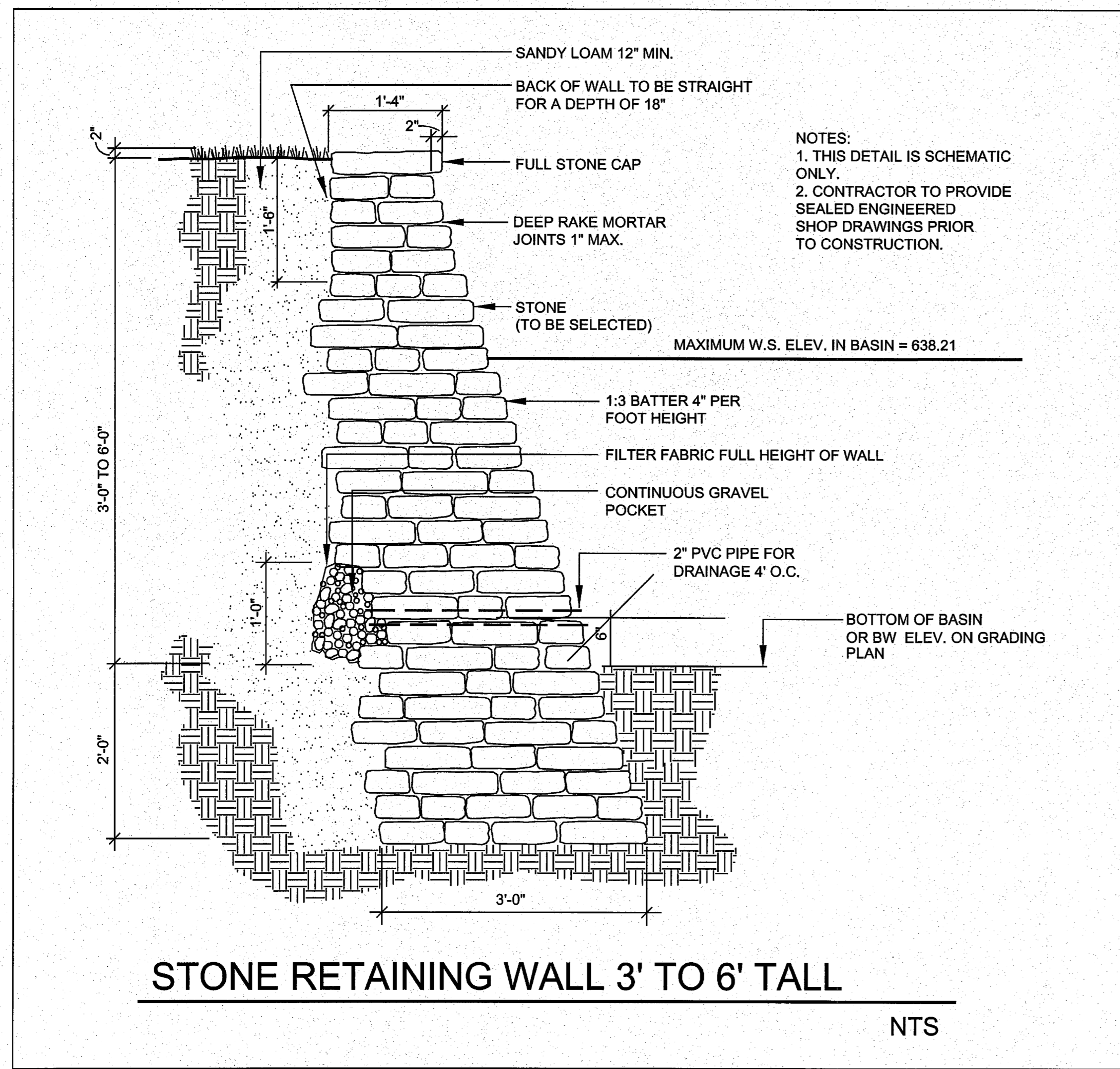
PAVING PLAN



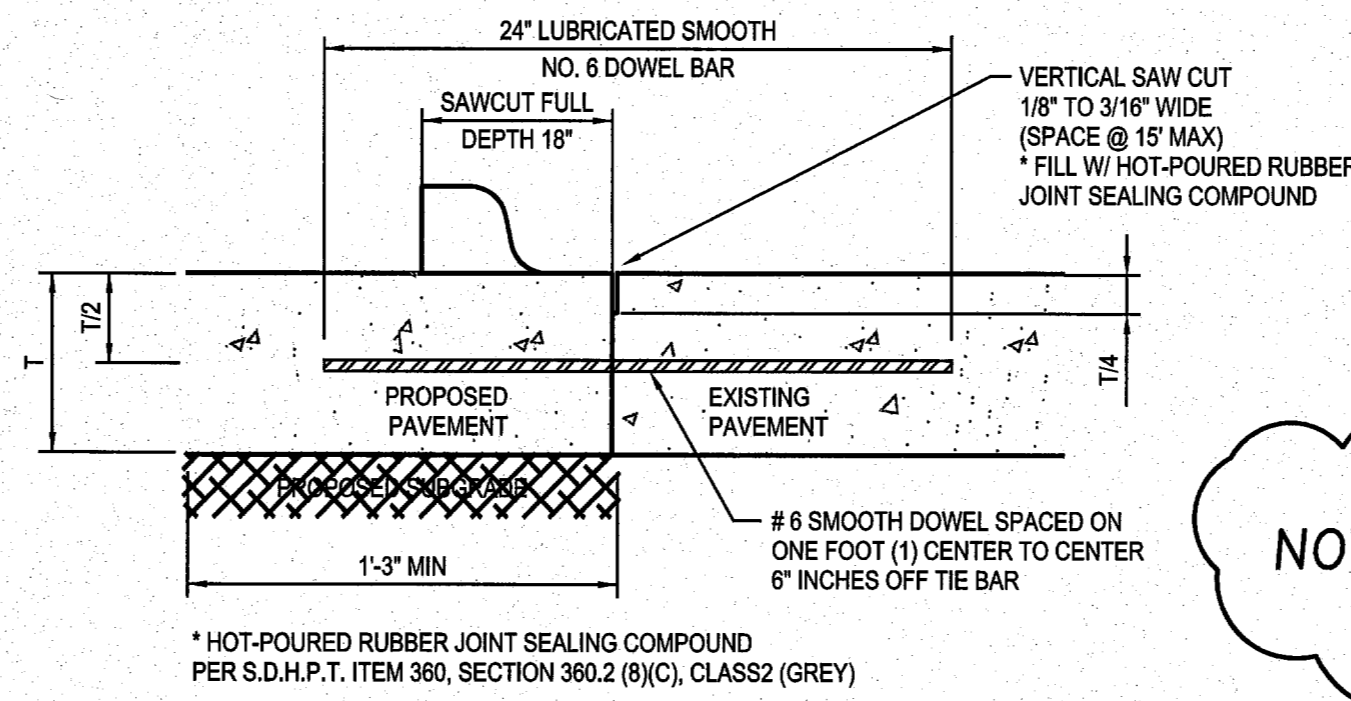
Issue Dates:
Review: June 23, 2010
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Construction:
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Project No.: 10 - 599.150

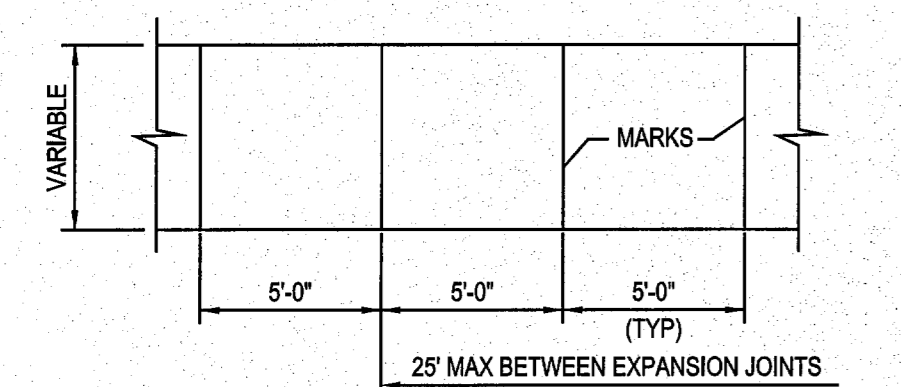
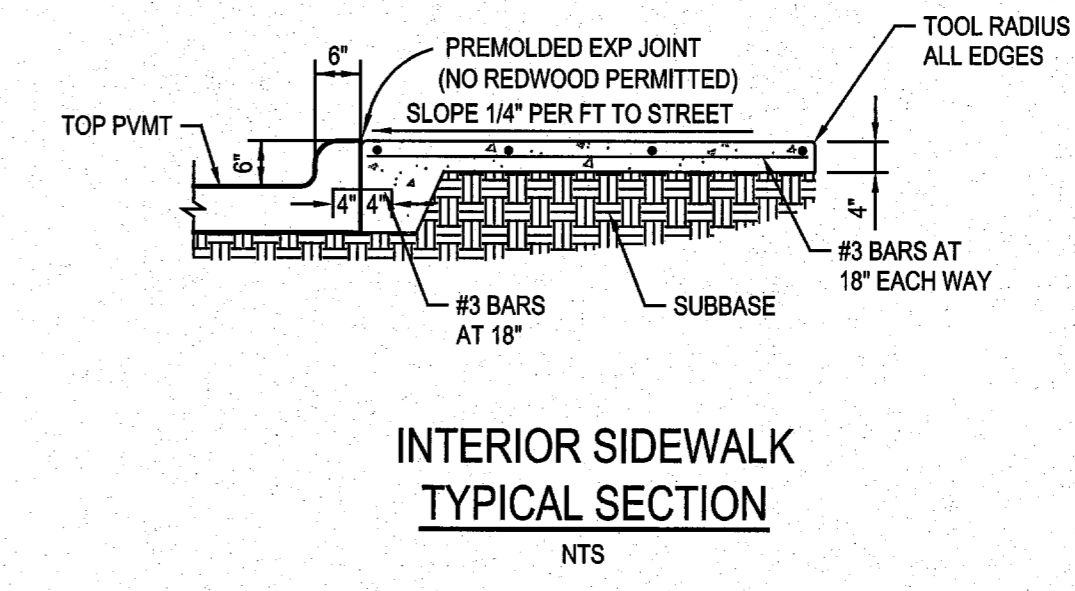
Sheet **12**
of **15**



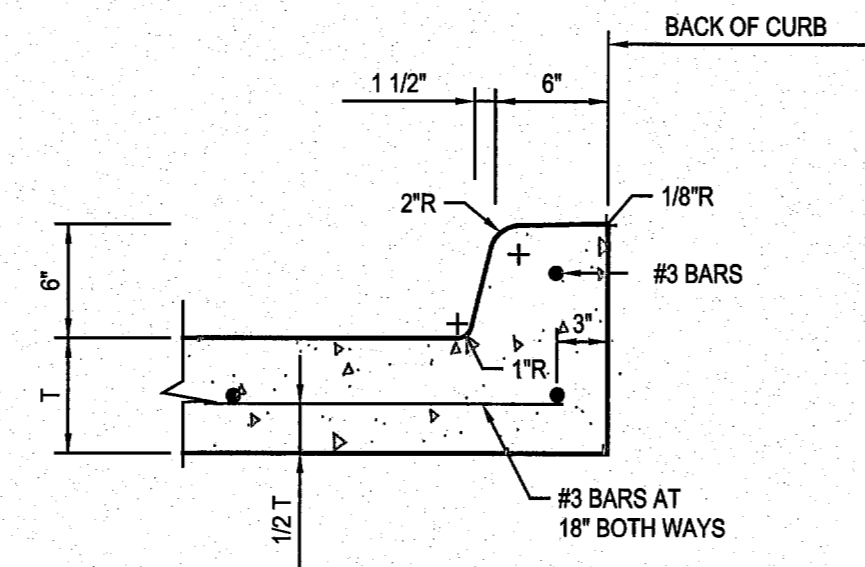
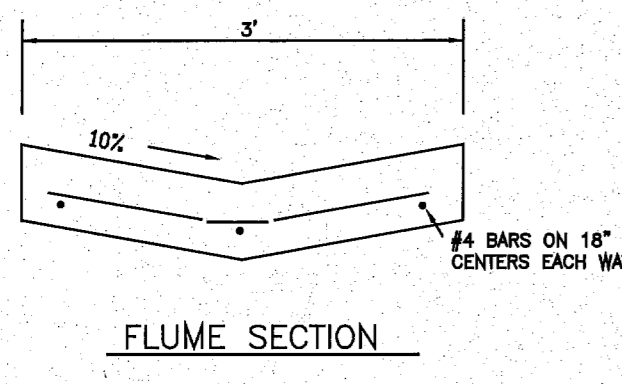
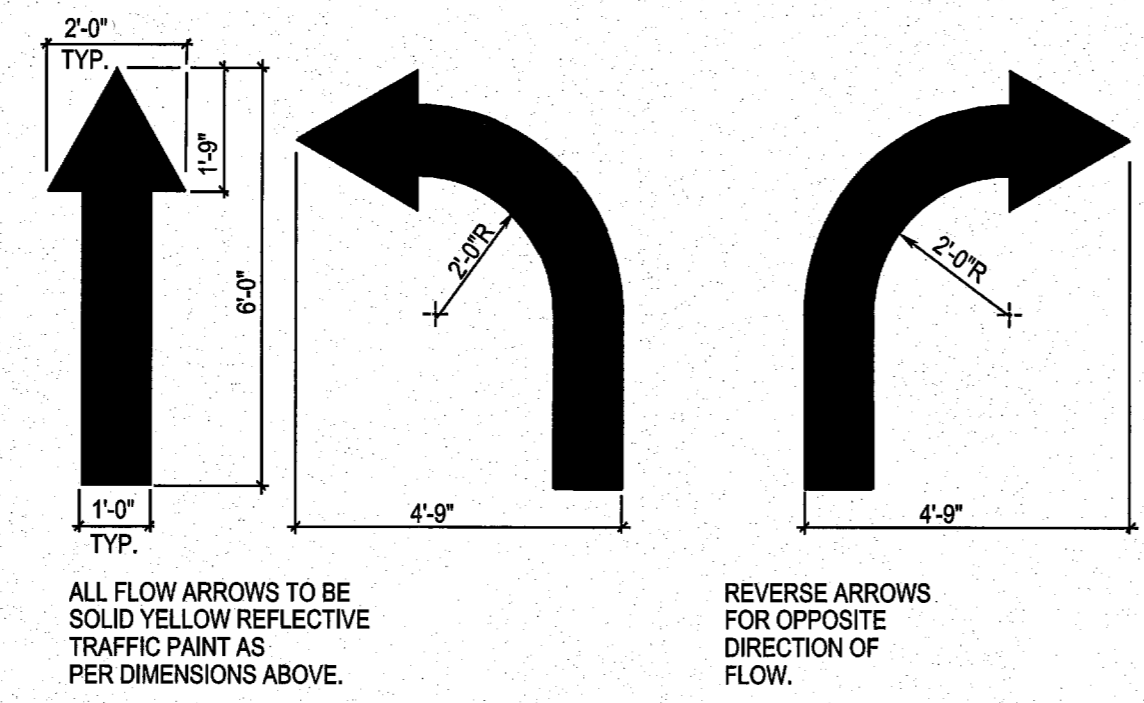
NOTE: REFERENCE ATTACHED TX-DOT RAMP DETAILS FOR ALL PEDESTRIAN (BFR) RAMPS.



NOTE: NO SAND WILL BE PERMITTED UNDER PAVEMENT.



NOTES:
1. AT MARKINGS THE CONCRETE SHALL BE A TOOLED JOINT 3/4" DEEP, FOLLOWED BY GROOVING TOOL. STRENGTH SHALL BE AS NOTED ON PAVING PLAN.



TO BE USED WHERE PROPOSED CONCRETE PAVEMENT MEETS EXISTING CONCRETE PAVEMENT

NOTES:
1. NO. 5 SMOOTH DOWEL BAR MAY BE USED IN 5', 6' AND 7" PAVEMENT THICKNESS.
2. LONGITUDINAL BUTT CONSTRUCTION MAY BE UTILIZED IN PLACE OF LONGITUDINAL HINGED (KEYWAY) JOINT AT CONTRACTOR'S OPTION.
3. DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG. DRILLING BY HAND IS NOT APPLICABLE. PUSHING DOWEL BARS INTO GREEN CONCRETE IS NOT ACCEPTABLE.

BENCHMARK:
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ELEV. = 639.88'

CAUTION!!!
CONTACT:
DIG TESS 1-800-344-8377
ATMOS 1-800-344-8377
AT&T 1-800-344-8377
SOUTHWESTERN BELL 1-800-344-8377
TOWN OF ADDISON 972-450-2871

AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

GLENN ENGINEERING
T.B.P.E. FIRM # F-303
PHONE 972-717-5151
105 DECKER COURT, SUITE 910
IRVING, TEXAS 75062
FAX 972-717-2176

TRINITY CHRISTIAN ACADEMY
DRAINAGE & DRIVE IMPROVEMENTS NEAR THE UPPER SCHOOL

PAVING & RETAINING WALL DETAILS

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY THOMAS J. CASSEY IV, P.E. 88213, ON JUNE 23, 2010

Issue Dates:
Review: June 23, 2010

Construction:
Scale: AS NOTED
Drawn By: TJC
Checked By: CMA
Project No.: 10 - 599.150

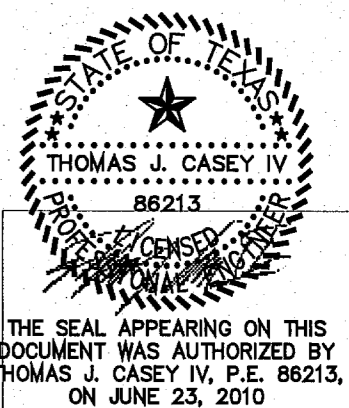
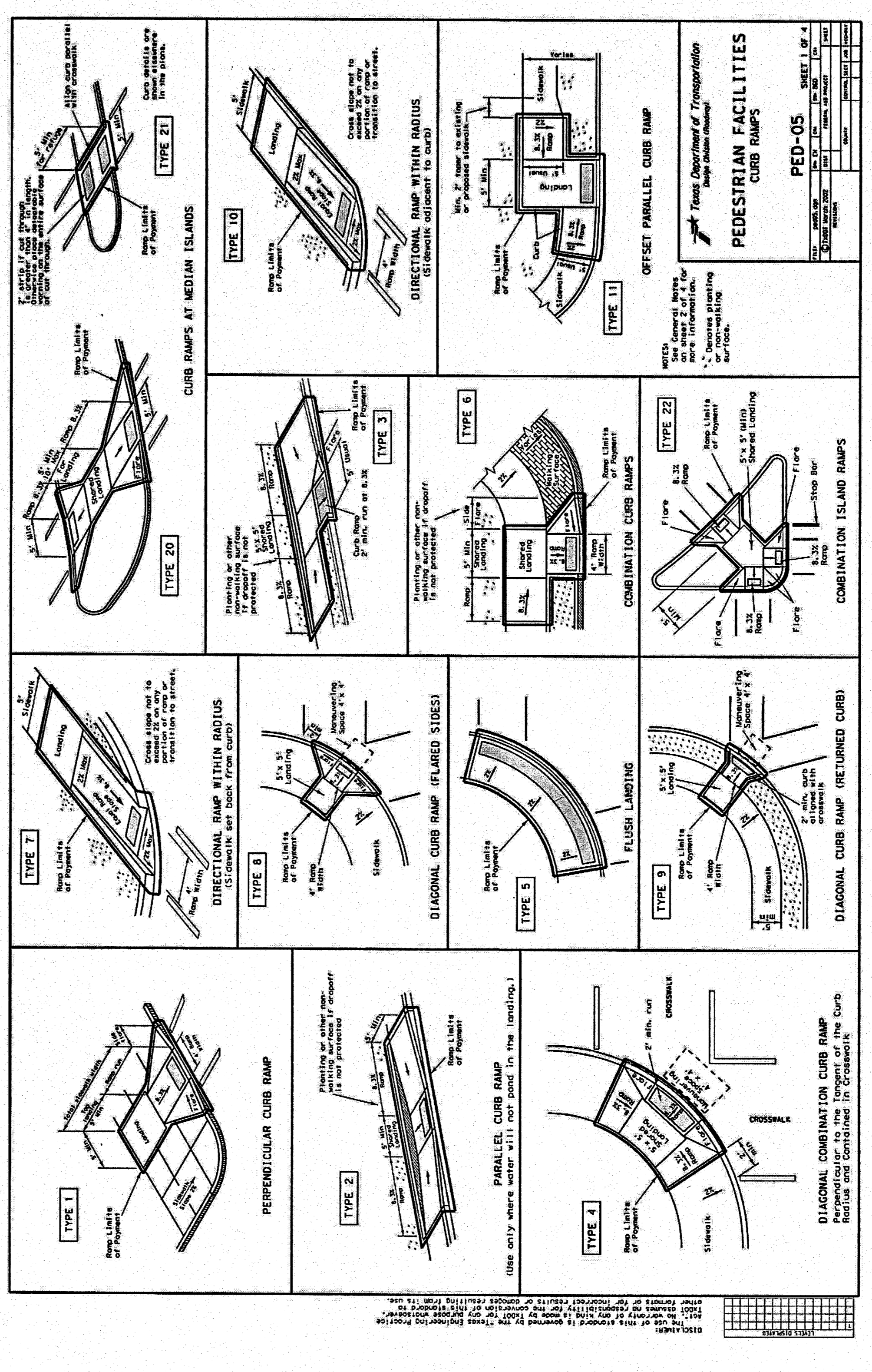
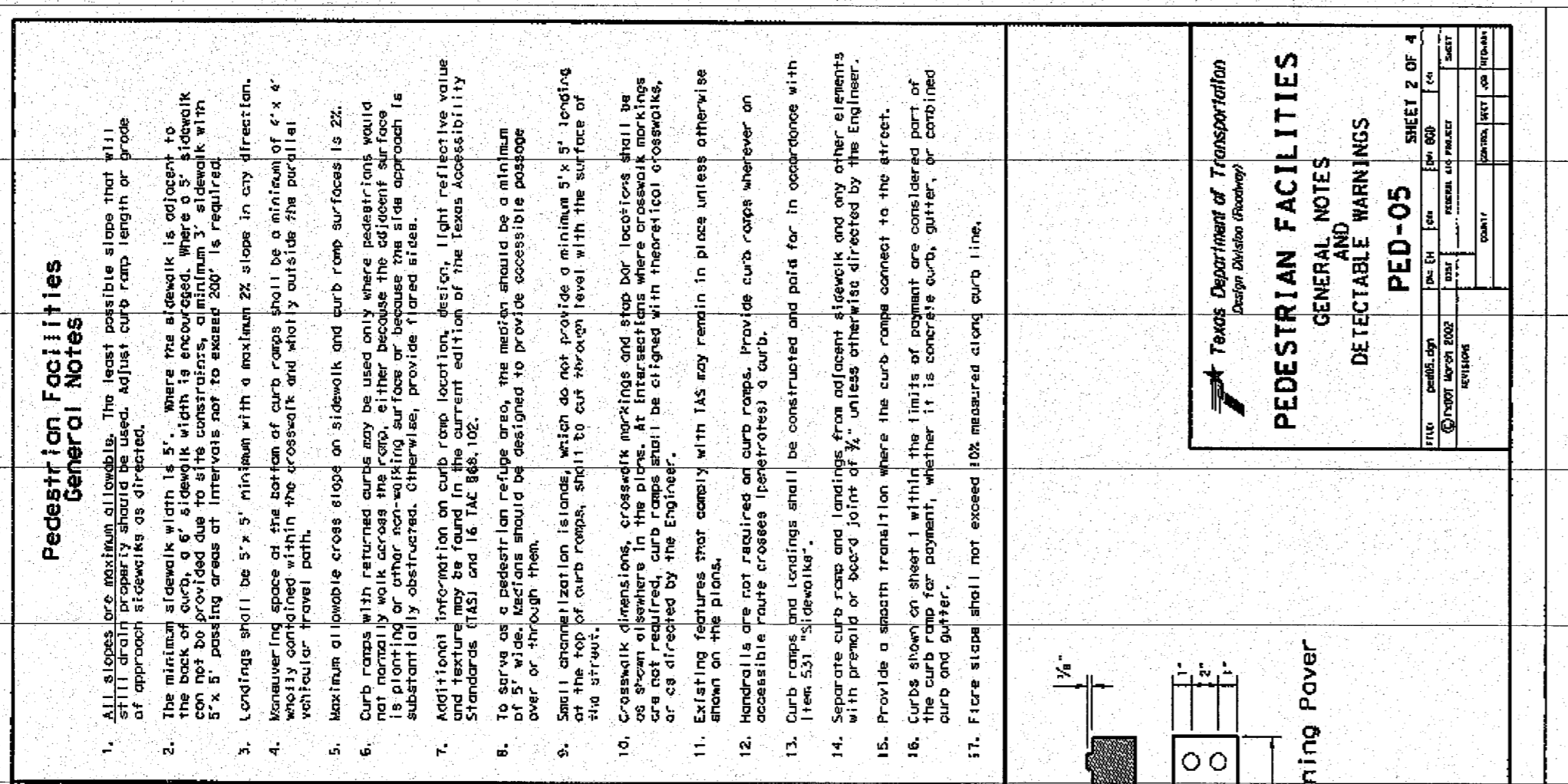
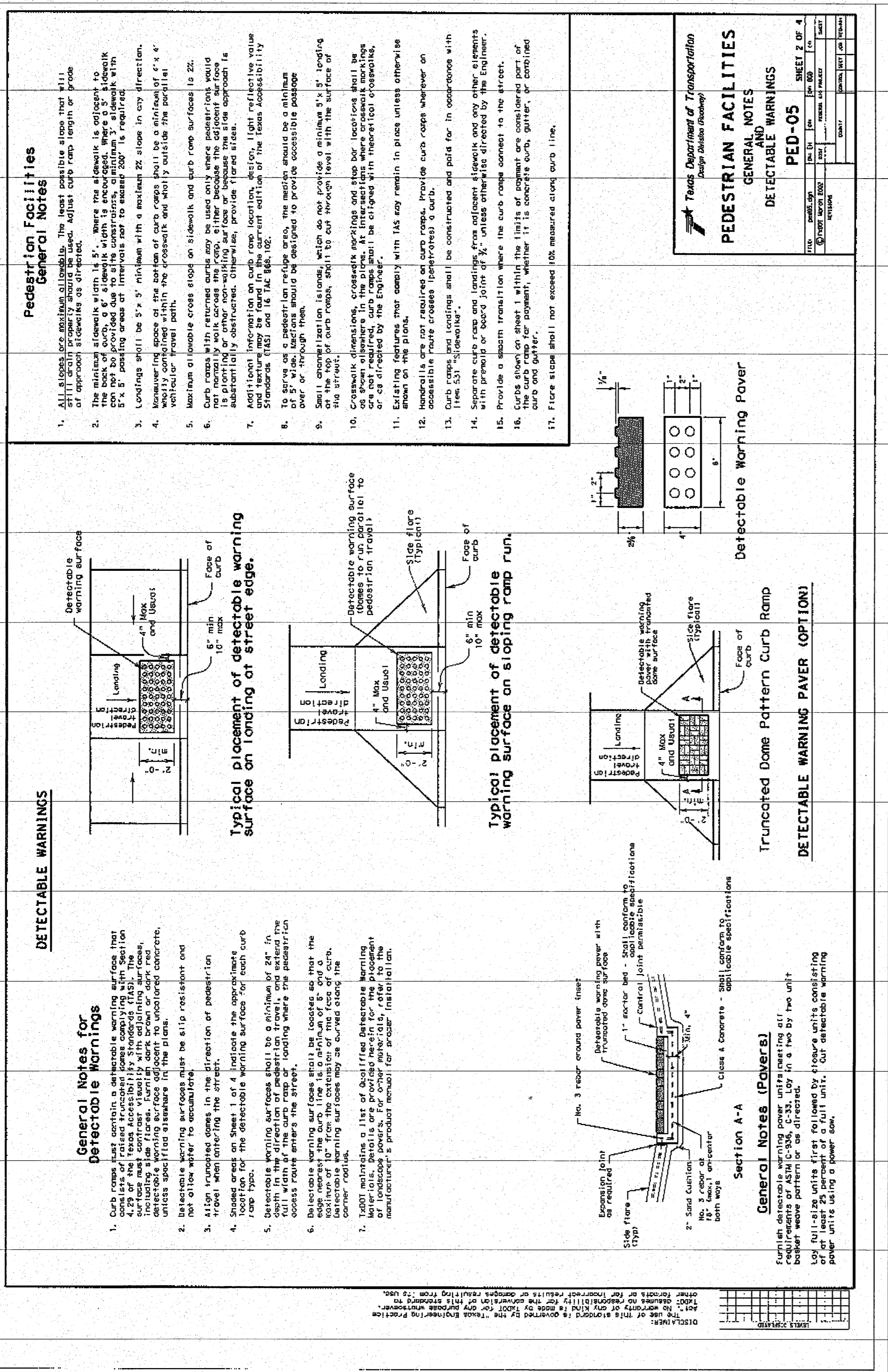
Sheet 13
of 15

PAVING & RETAINING WALL DETAILS
SCALE: AS SHOWN

BENCHMARK:
TOWN OF ADDISON BENCHMARK 6, BRASS DISC SETON TOP OF EXISTING INLET, LOCATED ON THE EAST SIDE OF ADDISON ROAD, DIRECTLY EAST OF THE LOWER SCHOOL PLAYGROUNDS.
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CAUTION!!!!
CONTACT:
DIG TESS 1-900-344-8377
ATMOS 1-900-344-8377
SPECTRA 1-900-344-8377
SOUTHWESTERN BELL 1-900-344-8377
TOWN OF ADDISON 972-450-2871

AT LEAST 48 HOURS PRIOR TO CONSTRUCTION



Issue Dates:
Review: June 23, 2010

Construction:
Scale: AS NOTED

Drawn By: TJC

Checked By: CMA

Project No.: 10 - 599-150

Sheet 14
of 15

TRINITY CHRISTIAN ACADEMY
DRAINAGE & DRIVE
IMPROVEMENTS NEAR
THE UPPER SCHOOL

GLENN ENGINEERING

T.E.P.E. FIRM PHONE 972-717-5151 FAX 972-717-2176
105 DECKER COURT-SUITE 910 IRVING, TEXAS 75062
#F-303

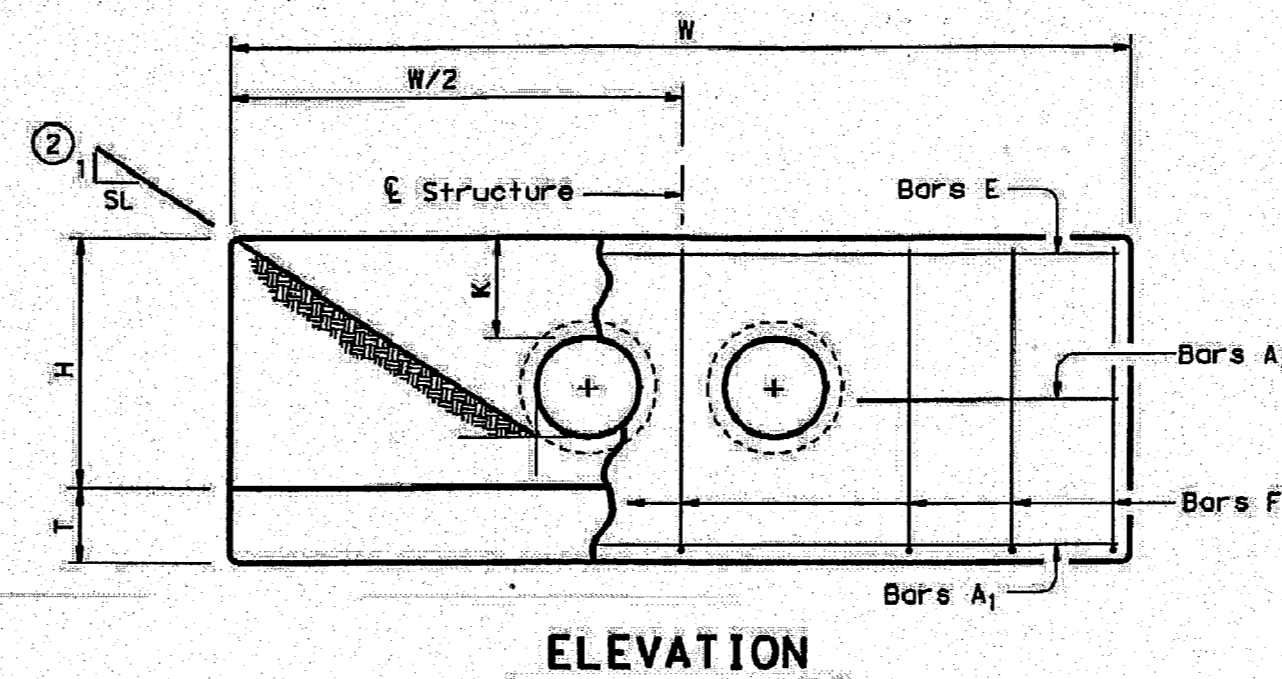
USE 8'-0"

TABLE OF VARIABLE DIMENSIONS AND QUANTITIES FOR ONE HEADWALL

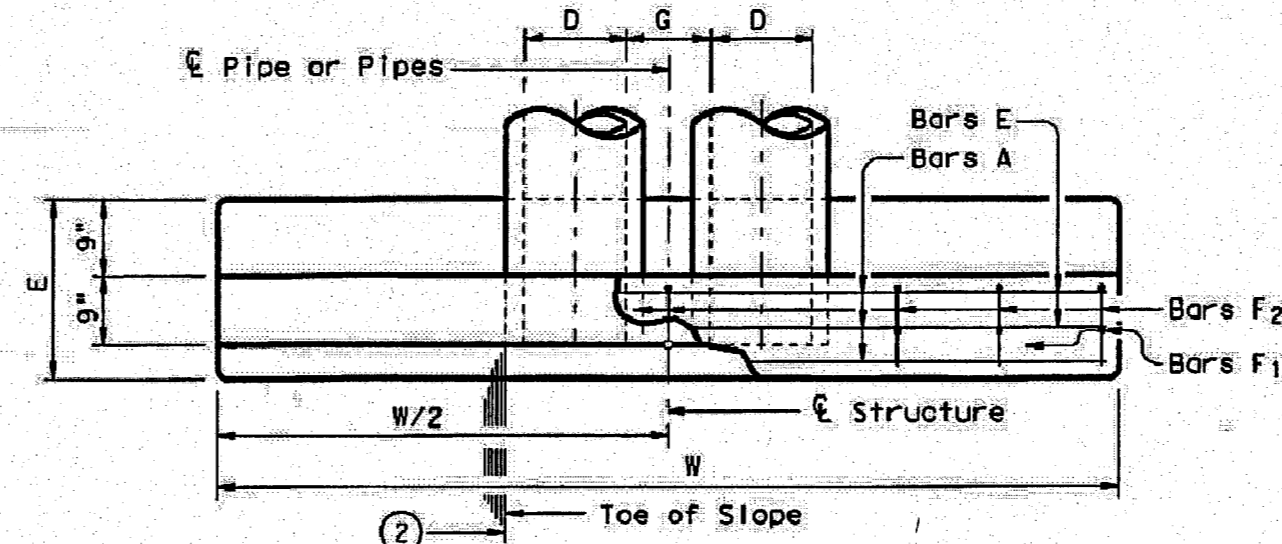
SLOPE DIA. OF PIPE, D	Values for one Pipe		Values to be added for each odd 1 Pipe	
	W	Reinf (Lbs)	W	Reinf (Lbs)
12"	9'-0"	122	1'-9"	15
15"	10'-3"	136	2'-2"	16
18"	11'-6"	163	2'-8"	19
21"	12'-9"	200	3'-1"	31
24"	14'-0"	217	3'-7"	34
27"	15'-3"	254	3'-11"	37
30"	16'-6"	272	4'-4"	40
33"	17'-9"	314	4'-8"	43
36"	19'-0"	371	5'-1"	46
42"	21'-6"	442	5'-10"	52
48"	25'-0"	569	6'-7"	59
54"	27'-6"	701	7'-6"	82
60"	30'-0"	794	8'-3"	90
66"	32'-6"	894	8'-9"	96
72"	35'-0"	1055	9'-4"	103
12"	13'-0"	175	1'-9"	14
15"	14'-9"	193	2'-2"	17
18"	16'-5"	228	2'-8"	19
21"	18'-3"	299	3'-1"	31
24"	20'-0"	323	3'-7"	33
27"	21'-9"	371	3'-11"	37
30"	23'-6"	415	4'-4"	40
33"	25'-3"	469	4'-8"	43
36"	27'-0"	556	5'-1"	46
42"	30'-6"	675	5'-10"	52
48"	35'-6"	837	6'-7"	59
54"	39'-0"	1015	7'-6"	84
60"	42'-6"	1171	8'-3"	91
66"	46'-0"	1298	8'-9"	98
72"	49'-6"	1561	9'-4"	103
12"	17'-0"	229	2'-0"	15
15"	19'-3"	266	2'-2"	17
18"	21'-6"	308	2'-8"	19
21"	23'-9"	362	3'-1"	31
24"	26'-0"	430	3'-7"	34
27"	28'-3"	486	3'-11"	37
30"	30'-6"	539	4'-4"	40
33"	32'-9"	603	4'-8"	42
36"	35'-0"	738	5'-1"	47
42"	39'-6"	881	5'-10"	52
48"	46'-0"	1102	6'-7"	61
54"	50'-6"	1364	7'-6"	84
60"	55'-0"	1547	8'-3"	91
66"	59'-6"	1741	8'-9"	98
72"	64'-0"	2069	9'-4"	102
12"	25'-0"	336	3'-0"	14
15"	28'-3"	384	3'-6"	17
18"	31'-6"	452	4'-2"	19
21"	34'-9"	581	5'-1"	31
24"	38'-0"	644	5'-8"	34
27"	41'-3"	737	6'-5"	37
30"	44'-6"	807	7'-2"	39
33"	47'-9"	912	7'-9"	44
36"	51'-0"	1108	8'-6"	48
42"	57'-6"	1318	9'-6"	54
48"	67'-0"	1674	11'-0"	59
54"	73'-6"	2064	12'-6"	83
60"	80'-0"	2343	14'-0"	89
66"	86'-6"	2635	15'-6"	96
72"	93'-0"	3123	17'-0"	101

DISCLAIMER: This standard is governed by the Texas Engineering Practice Act. No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for incorrect results or damages resulting from its use.

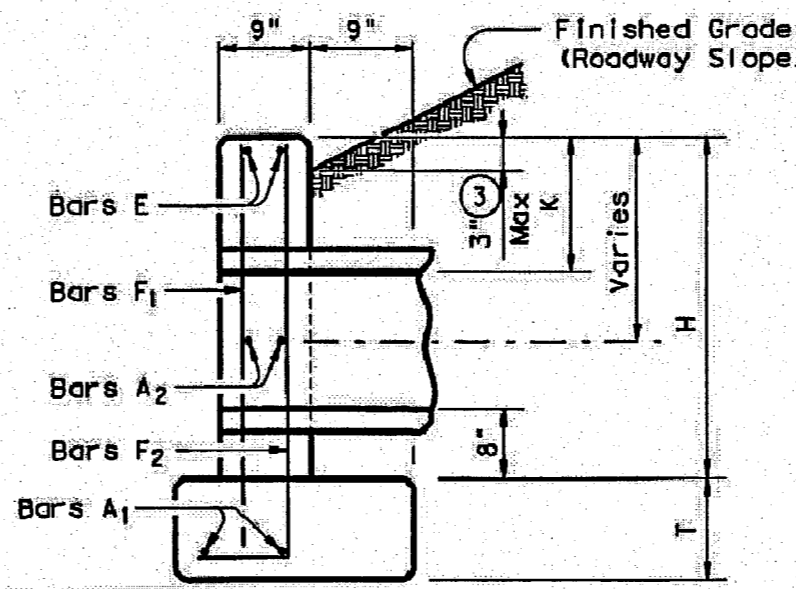
LEVELS DISPLAYED
ACC.



ELEVATION



PLAN OF NON-SKEWED PIPES



SECTION

TABLE OF CONSTANT DIMENSIONS

DIA. OF PIPE, D	G	K	H	T	E
12"	9"	1'-0"	2'-8"	9"	1'-9"
15"	11"	1'-0"	2'-11"	9"	1'-9"
18"	1'-2"	1'-0"	3'-2"	9"	1'-9"
21"	1'-4"	1'-0"	3'-5"	9"	2'-0"
24"	1'-7"	1'-0"	3'-8"	9"	2'-0"
27"	1'-8"	1'-0"	3'-11"	9"	2'-3"
30"	1'-10"	1'-0"	4'-2"	9"	2'-3"
33"	1'-11"	1'-0"	4'-5"	9"	2'-6"
36"	2'-1"	1'-0"	4'-8"	1'-0"	2'-6"
42"	2'-4"	1'-0"	5'-2"	1'-0"	2'-9"
48"	2'-7"	1'-3"	5'-11"	1'-0"	3'-2"
54"	3'-0"	1'-3"	6'-5"	1'-0"	3'-6"
60"	3'-3"	1'-3"	6'-11"	1'-0"	3'-9"
66"	3'-3"	1'-3"	7'-5"	1'-0"	3'-9"
72"	3'-4"	1'-3"	7'-11"	1'-0"	4'-0"

TABLE OF REINFORCING STEEL

Bar	Size	Spa	No.
A1	#5	-	2
A2	#5	1'-6"	-
E	#5	-	2
F	#5	1'-0"	-

GENERAL NOTES:
 Designed according to AASHTO LRFD Specifications.
 Reinforcing steel shall be placed with the center of the outside layer of bars 2" from the surface of the concrete.
 All reinforcing steel shall be Grade 60. All concrete shall be Class "C" and shall have a minimum compressive strength of 3600 psi.
 No bridge rails of any type may be mounted directly to these culvert headwalls.

Texas Department of Transportation
 Bridge Division

CONCRETE HEADWALLS WITH PARALLEL WINGS FOR NON-SKEWED PIPE CULVERTS

CH-PW-0

FILE: chpw0ste.dgn	DRN: TxDOT	CRD: TxDOT	DRN: TxDOT	CRD: C&F
©TxDOT February 2010	RESTRICTED	FEDERAL AID PROJECT	SHEET	
REVISIONS	COUNTY	CONTROL SECT	JOB	ROADWAY

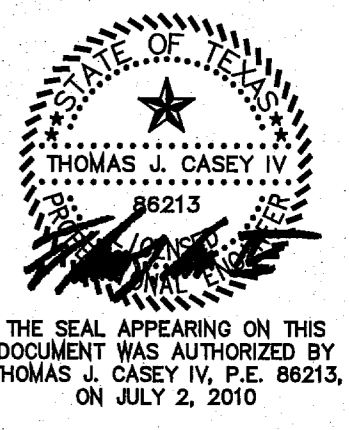
- Quantities shown are for concrete pipe and will increase slightly for metal pipe installations.
- Indicated slope is perpendicular to centerline Pipe or Pipes.
- For vehicle safety, curbs shall project no more than 3" above finished grade. Curb heights shall be reduced, if necessary, to meet these requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.
- Quantities shown are for one structure end only (one headwall).

GLENN ENGINEERING

PHONE 972-717-5151
 FAX 972-717-2176
 109 DECKER COURT-SUITE 910
 IRVING, TEXAS 75062

TRINITY CHRISTIAN ACADEMY
 DRAINAGE & DRIVE
 IMPROVEMENTS NEAR
 THE UPPER SCHOOL

TxDOT
 TYPE "A"
 HEADWALL
 DETAILS



Issue Dates:
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 Drawn By: TJC
 Checked By: CMA
 Project No.: 10 - 599.150

Sheet **15A**
 of **15**

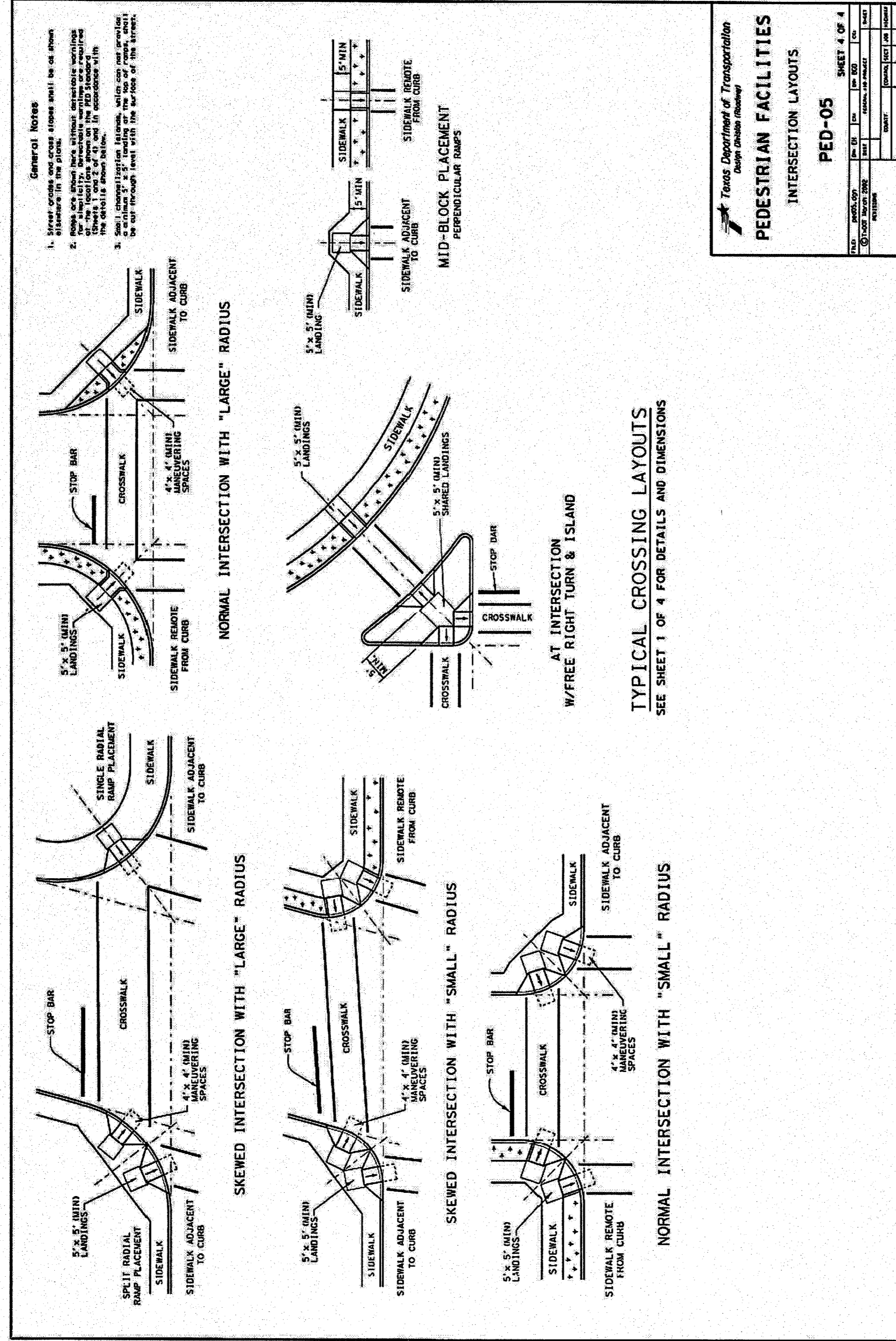
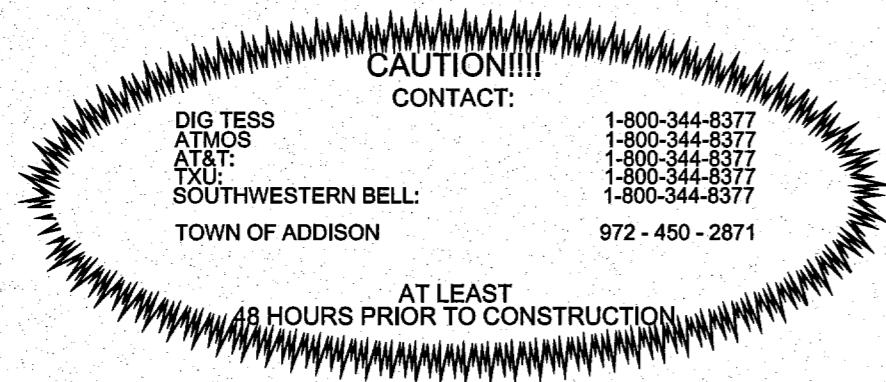
BENCHMARK:
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 ELEV. = 639.88'

CAUTION!!!!

CONTACT:
 DIG TESS 1-800-344-8377
 ATMOS 1-800-344-8377
 ART 1-800-344-8377
 SCOTT 1-800-344-8377
 SOUTHWESTERN BELL 1-800-344-8377
 TOWN OF ADDISON 972-450-2871

AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

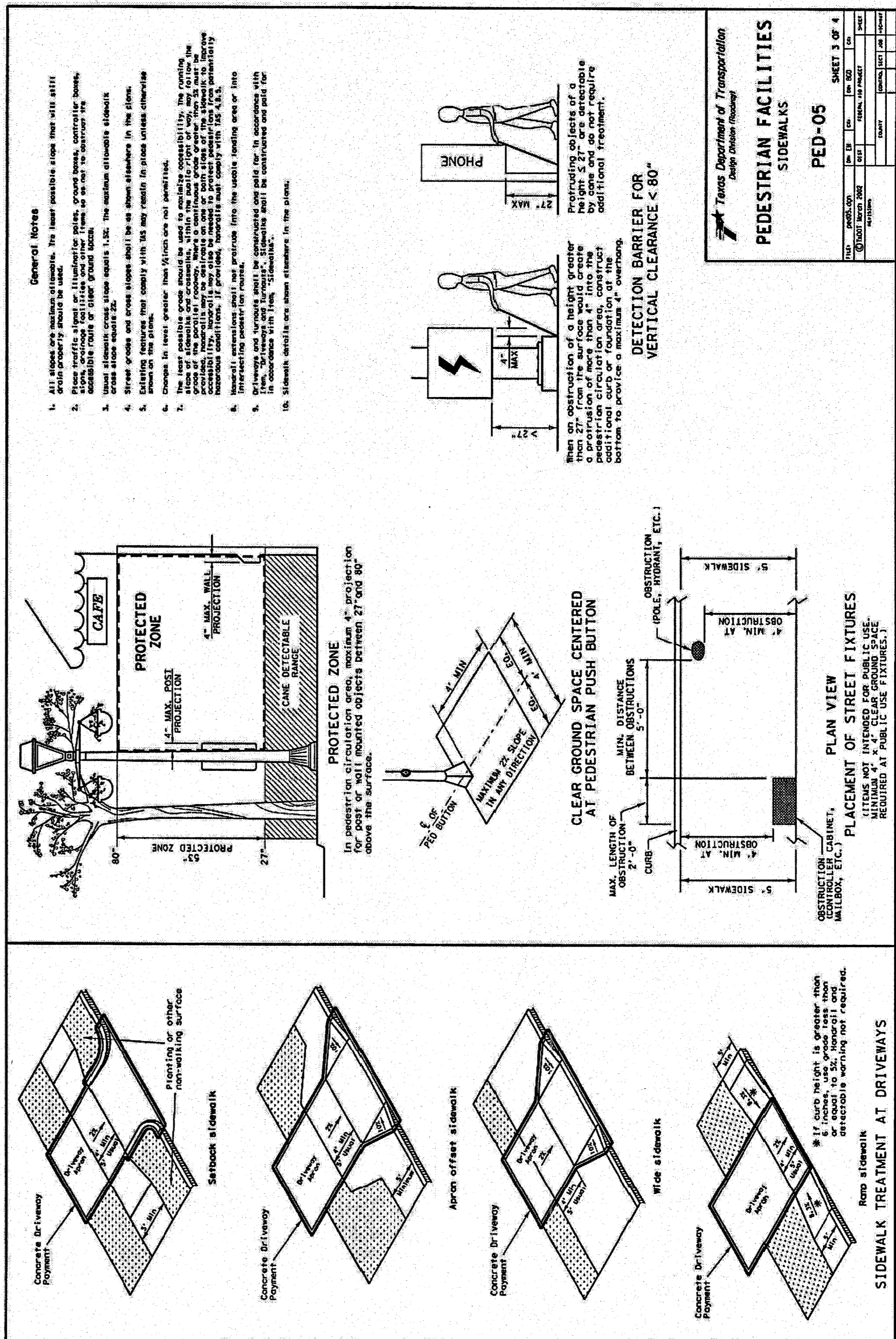
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Texas Department of Transportation
Design Division

PEDESTRIAN FACILITIES
INTERSECTION LAYOUTS
PED-05
SHEET 4 OF 4

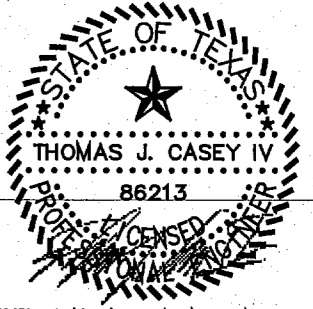
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02/02/09	JAC	JAC	JAC	008
02/02/09	JAC	JAC	JAC	009
02/02/09	JAC	JAC	JAC	010



Texas Department of Transportation
Design Division

PEDESTRIAN FACILITIES
SIDEWALKS
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DATE	BY	CHK	APP	NO.
01/20/09	JAC	JAC	JAC	001
02/02/09	JAC	JAC	JAC	002
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THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY THOMAS J. CASEY, P.E. 88213, ON JUNE 23, 2010

Issue Dates:
Review: June 23, 2010

Construction:

Scale: AS NOTED

Drawn By: TJC

Checked By: CMA

Project No.: 10 - 599.150

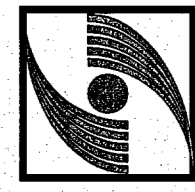
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TRINITY CHRISTIAN ACADEMY
DRAINAGE & DRIVE
IMPROVEMENTS NEAR
THE UPPER SCHOOL

BFR
DETAILS
SHEET 2

**GLENN
ENGINEERING**



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