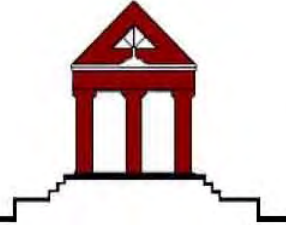
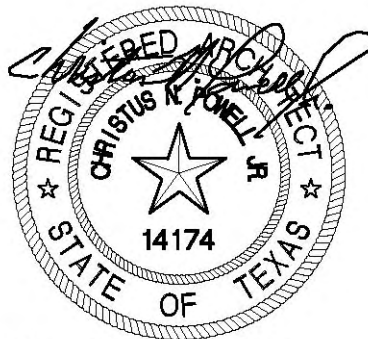


# ARCHI\*TECHNICS/3, INC.



5555 West Loop South, Ste. 400 \* Bellaire, Texas 77401 \*Phone 713-868-0088 \*Fax 713-468-2613  
Architecture \* Urban Design \* Interiors \* Construction Management \* Program Management



Date: 05/3/2013

## ADDENDUM No. 2

For

## HCC Southwest Campus Recreational Complex

## HOUSTON COMMUNITY COLLEGE

May 3, 2013

The following items modify the plans and specifications and shall become a part of the contract documents.

**ITEM NO.1**

A. Add the following Drawings and Revised Drawings to Contract Documents:

a. Architecture: The Base of Design for the Restroom Buildings roofing system is as indicated by Details "1" and "2" on sheet A-3.1; single source products are not acceptable. see attached MBCI Manufacture Data sheets as listed in Specifications; coverage width is to be 18 inch roof panel profile.

b. Civil: C-6.00 – Grading Plan

C-11.00 - Utility Plan

C-13.00 - Pavement and Driveway Details

C-19.00 – Lift Station Details 1

C-20.00 - Lift Station Details 2

C-21.00 – Lift Station Details 3

**End of Addendum # 2**



COLOR CHARTS | PRODUCT CATALOGS | ORDER PRODUCTS | ASK AN EXPERT | ARCHITECTS | CONTRACTORS | DEVELOPER | COMMERCIAL BUILDING OWNERS | RESIDENTIAL  
 OUR COMPANY **PRODUCTS** **RETIROFIT SOLUTIONS** **INSULATED METAL PANELS** **PROJECTS** **GREEN METAL INSTITUTE** **RESOURCE CENTER** **CONTACTS**

BLOG

SEARCH

## MBCI PRODUCTS

MBCI's wide array of products is the most extensive in the industry. We offer single skin panels, insulated metal panels, retrofit solutions and much more.



### Panel Selection Chart

Standing Seam Roof Systems –	
About Standing Seam Roofs	
Curved BattenLok	
BattenLok HS	
SuperLok	
LoKSeam	
Ultra-Dek	
Double-Lok	
Curved Roof Systems	+
Concealed Fastening Roof Systems	+
Concealed Fastening Wall	+

## Ultra-Dek®

The Ultra-Dek® roof panel is a snap-together, trapezoidal leg standing seam roof system. Ultra-Dek® panels are available in 12-inch, 18-inch and 24-inch widths. Ultra-Dek® requires a minimum slope of ¼:12 and is ideal for industrial, commercial and architectural applications. Ultra-Dek® can be erected on various types of construction.

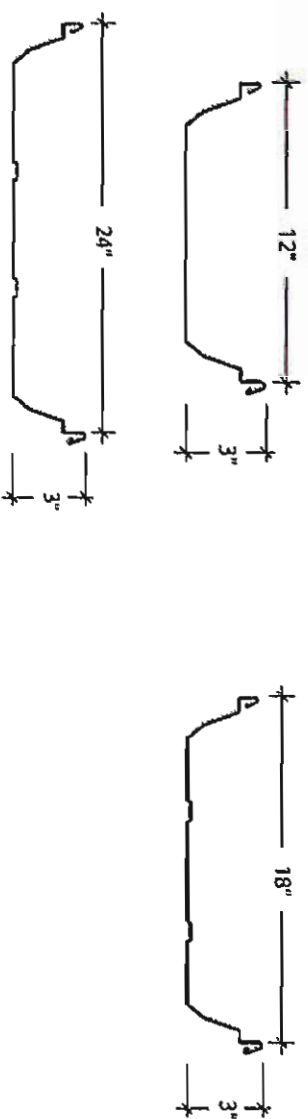


### Ultra-Dek® Product Information

- Coverage Width – 12", 18", 24"
- Minimum Slope – ¼:12
- Panel Attachment – Concealed Fastening System; Low, High, Fixed and Sliding
- Gauge – 24 (standard); 22, 26 (optional)
- Finishes – Smooth (standard); Embossed (optional)
- Coatings – Galvalume Plus®, Signature® 200, Signature® 300, Signature® 300 Metallic

Systems	+
Exposed Fastening Roof Panels	+
Exposed Fastening Wall Panels	+
Insulated Roof Panels	+
Insulated Wall Panels	+
Interior Wall Liner	+
Underhung Canopies	+
Soffits	+
Steelox Panels	+
Structural	+

**Panel Profiles**



**Additional Information**



[CAD Details](#)

[Product Catalog](#)

[Installation Manual](#)

[Color Charts](#)

[BIM](#)



[Warranties](#)

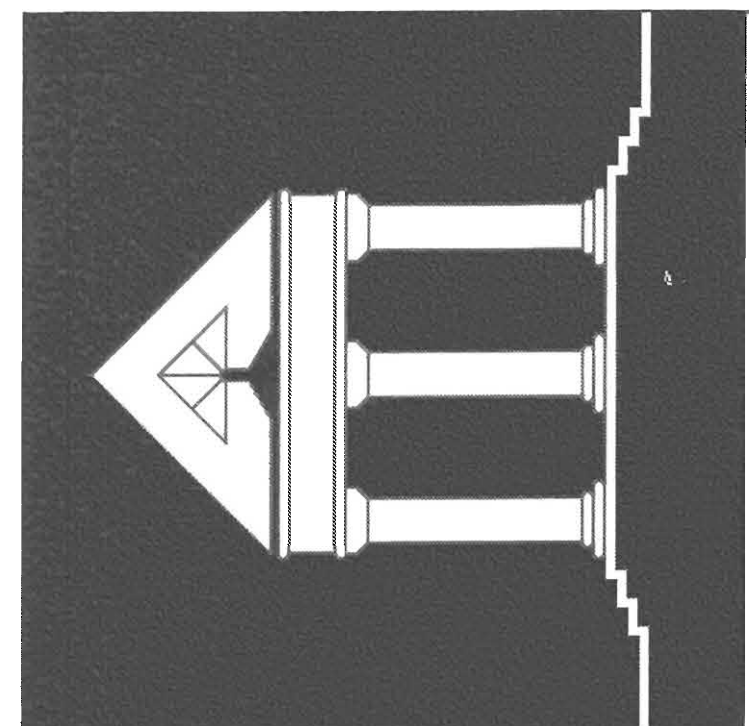
[Photo Gallery](#)

[Information Request](#)

[CSI Specifications](#)

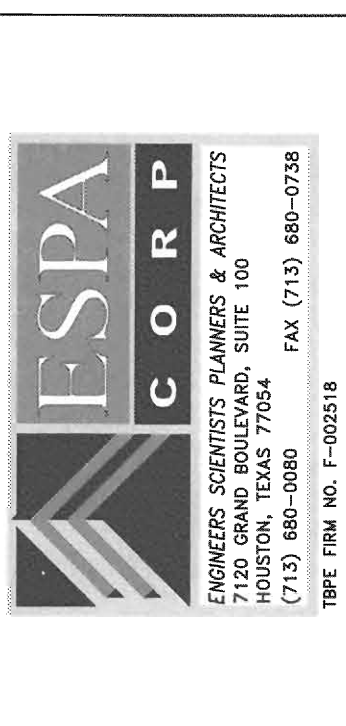
**Engineering Information**





**ARCHITECTURE**  
**URBAN DESIGN**  
**INTERIORS**  
**CONSTRUCTION MANAGEMENT**

5555 West Loop, South Suite #400  
 Dallas, Texas 75240  
 TEL 713/888-0088 FAX 713/468-2613

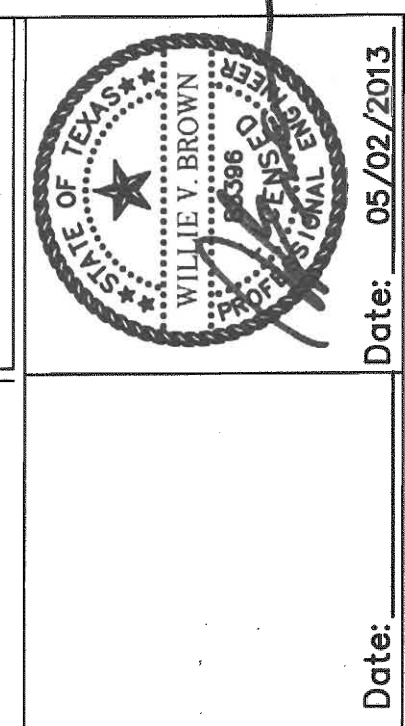


**ESPA**  
**CORP**

LANDSCAPE ARCHITECTURE PLANNING & ARCHITECTS  
 7130 GRAND HOUSTON, SUITE 100  
 HOUSTON, TEXAS 77054  
 (713) 860-5000 FAX (713) 860-0788  
 TIME FROM NO. 1-202518

RECREATIONAL COMPLEX  
 HCC SOUTHWEST CAMPUS

5855 SIENNA SPRINGS WAY  
 MISSOURI CITY, TEXAS 77459



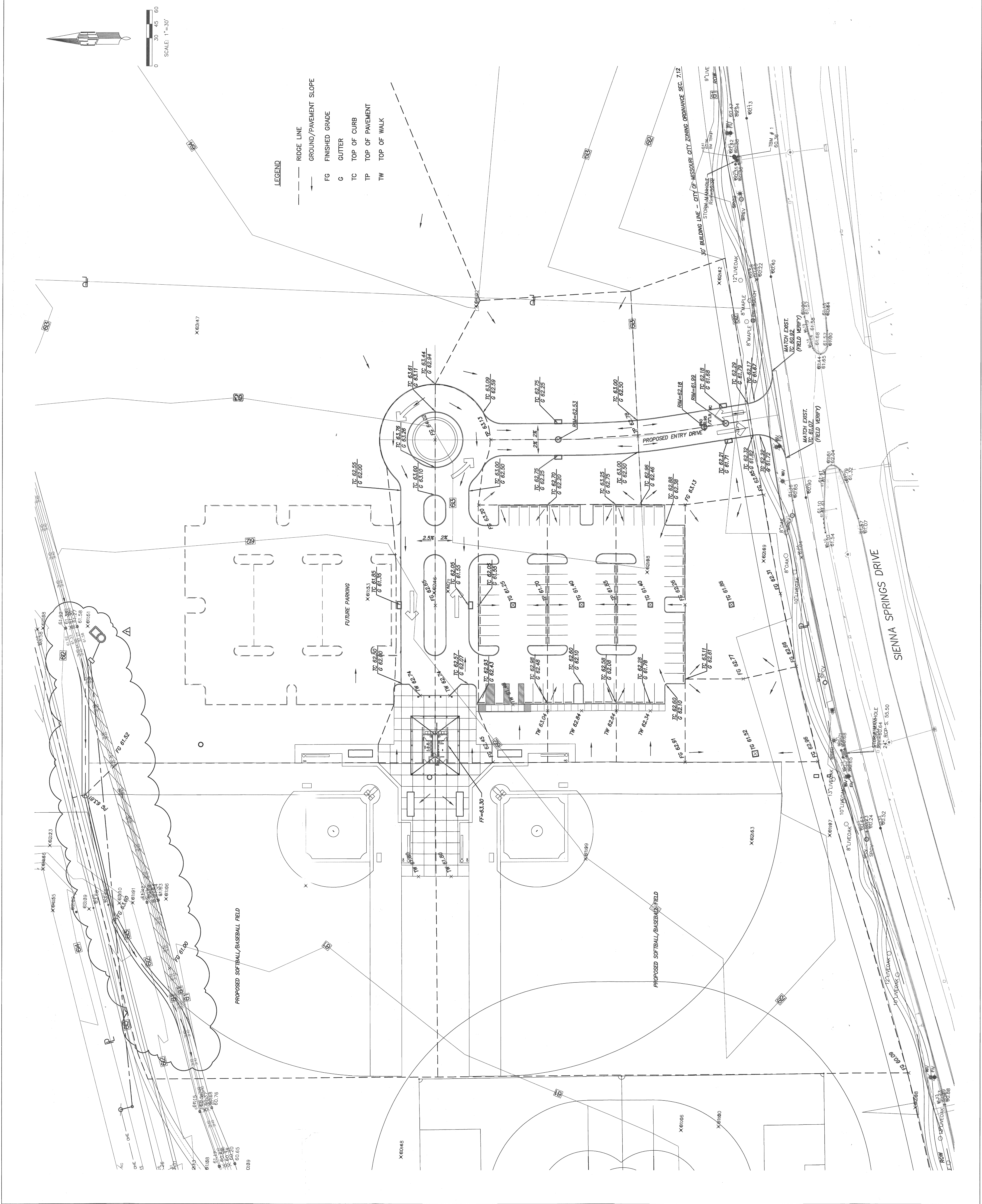
Date: 05/02/2013  
 ISSUED FOR PERMIT  
 APPENDIX #2

04/08/2013  
 05/03/2013

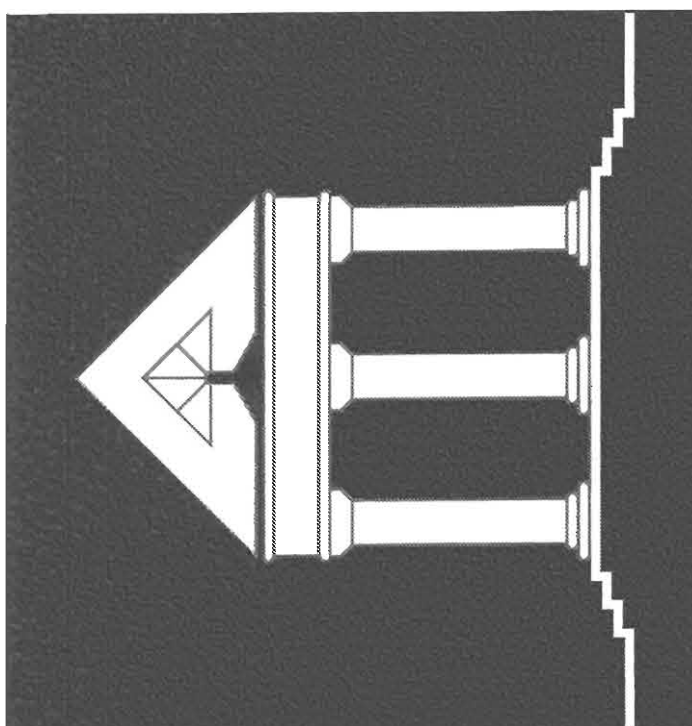
**C 6.00**

DATE:  
 DRAWN BY:  
 CHECKED BY:

**GRADING PLAN**



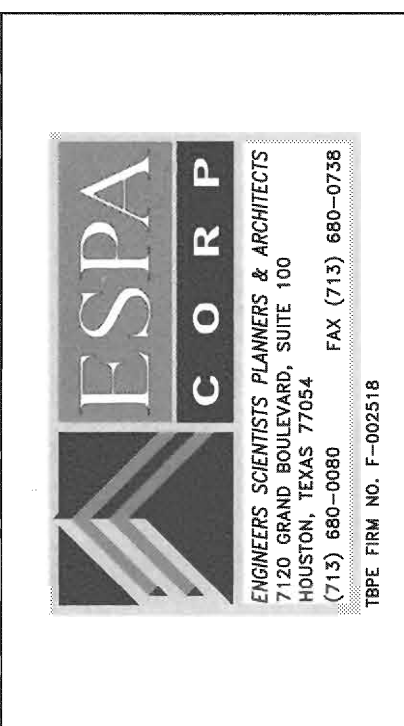




**ARCHITECTURE**  
URBAN DESIGN  
INTERIORS  
CONSTRUCTION MANAGEMENT

**ARCHI\*TECHNICS/3, INC.**

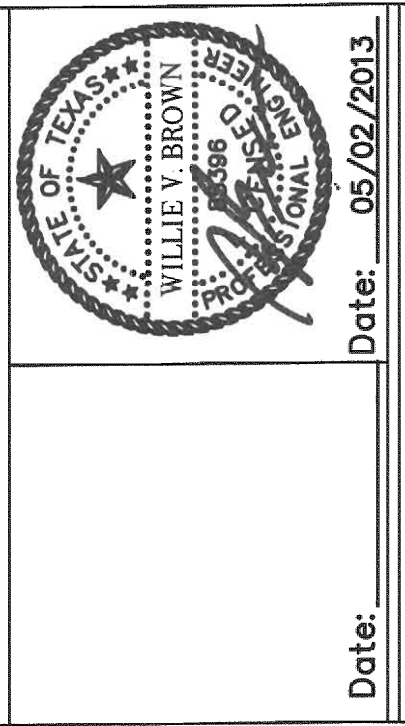
5555 West Loop South Suite #400  
Bellevue, Texas 77401  
TEL 713/868-0088 FAX 713/468-2613



**ESPACORP**  
ENGINEERS SCIENTISTS PLANNERS & ARCHITECTS  
SUITE 100  
14000 WEST LOOP SOUTH  
HOUSTON, TEXAS 77044  
(713) 868-0088 FAX (713) 868-2728  
TYPE PLAN NO. T-002518

HCC SOUTHWEST CAMPUS  
RECREATIONAL COMPLEX

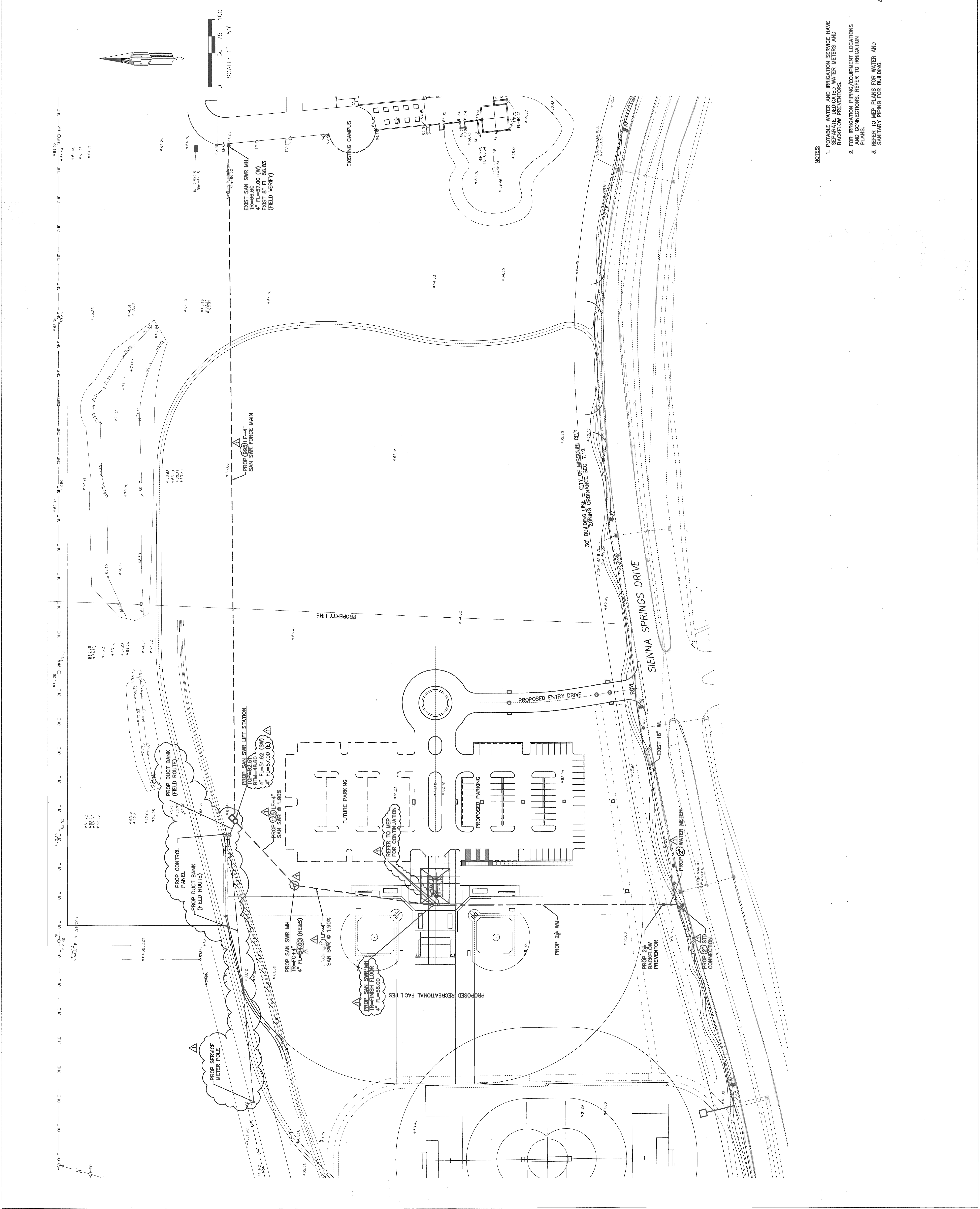
5855 SIENNA SPRINGS WAY  
MISSOURI CITY, TEXAS 77459



Date: 06/09/2013  
ISSUED FOR PERMIT 04/09/2013  
ADDENDUM #2 05/03/2013

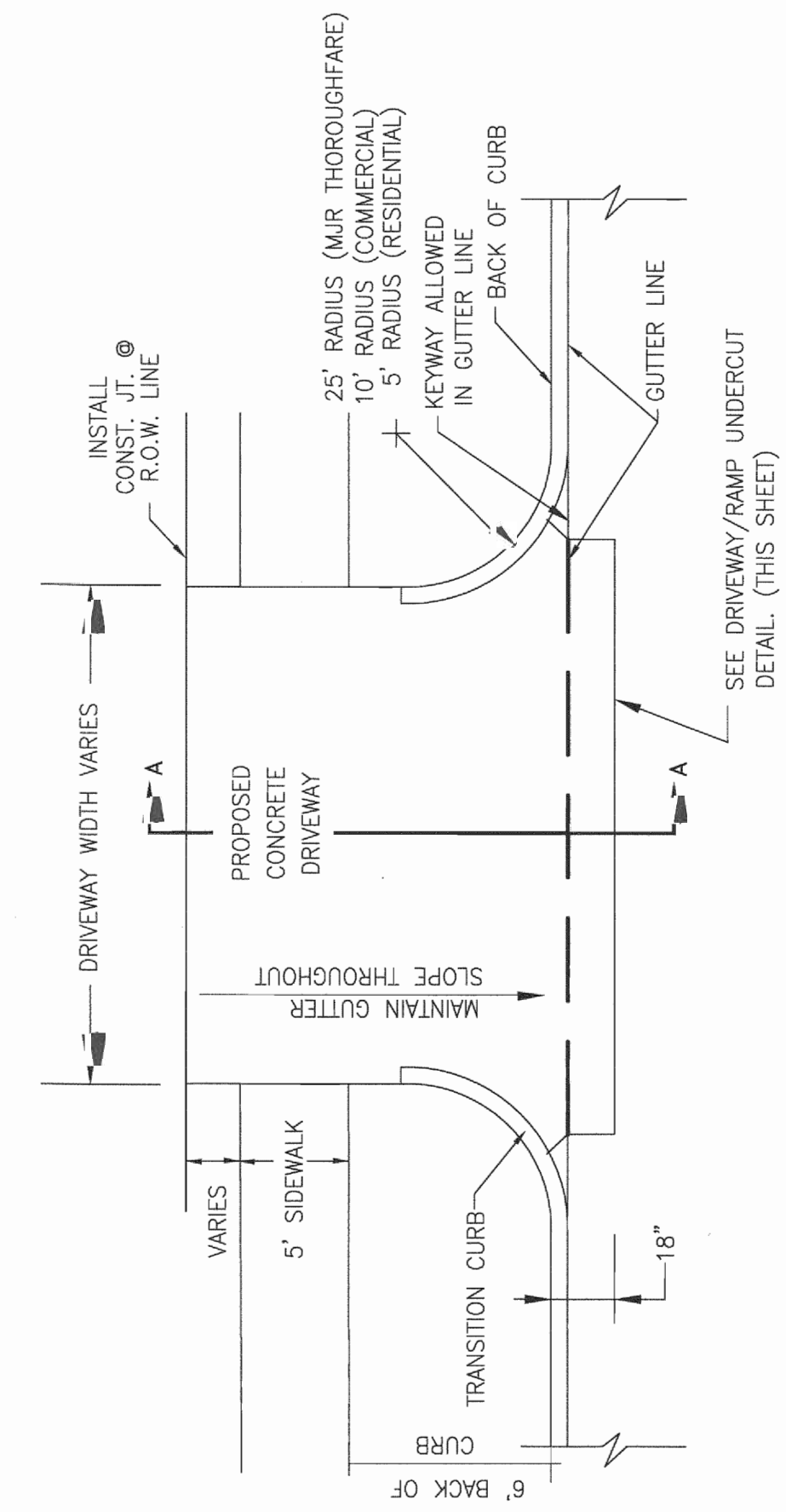
**C 11.0**  
DATE:  
DRAWN BY:  
CHECKED BY:

**UTILITY PLAN**



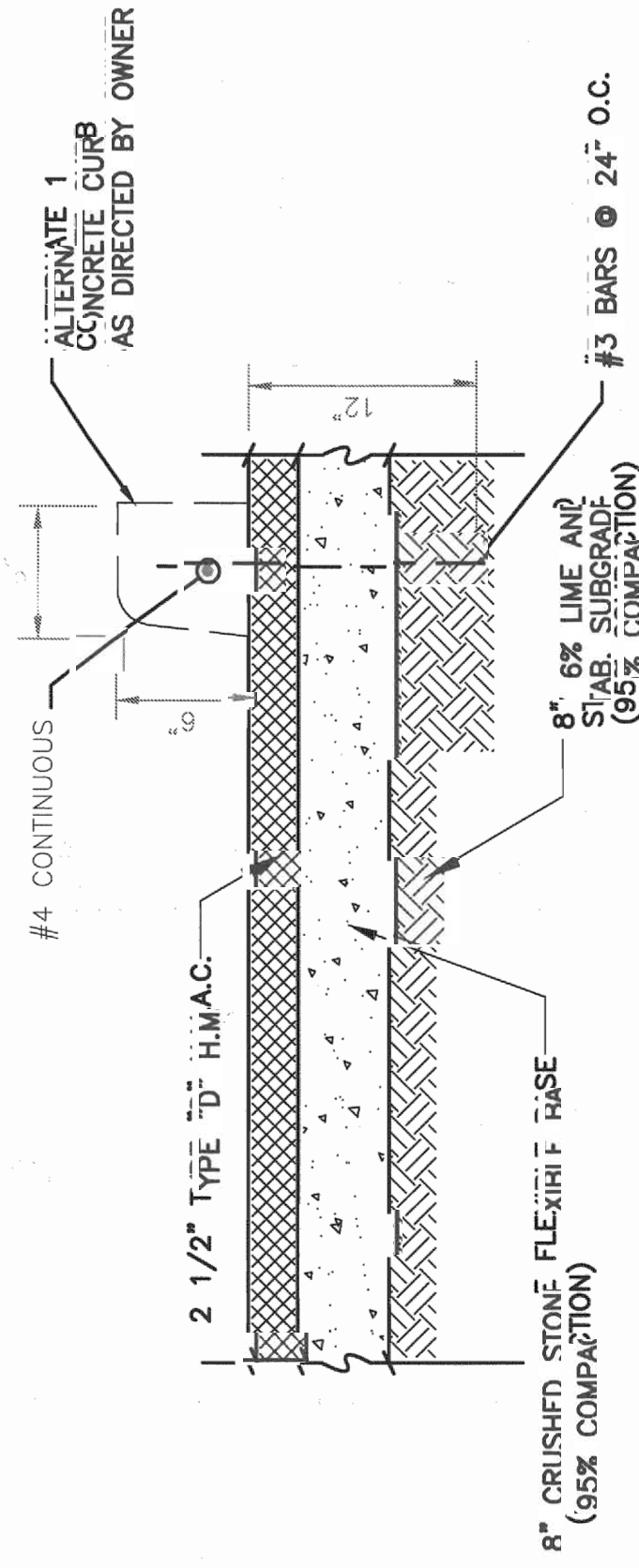
- NOTES:**
- POTABLE WATER AND IRRIGATION SERVICE HAVE SEPARATE DEDICATED WATER METERS AND BACKFLOW PREVENTORS.
  - FOR IRRIGATION DRINKS/EQUIPMENT LOCATIONS AND CONNECTIONS, REFER TO IRRIGATION PLANS.
  - REFER TO MEP PLANS FOR WATER AND SANITARY PIPING FOR BUILDINGS.





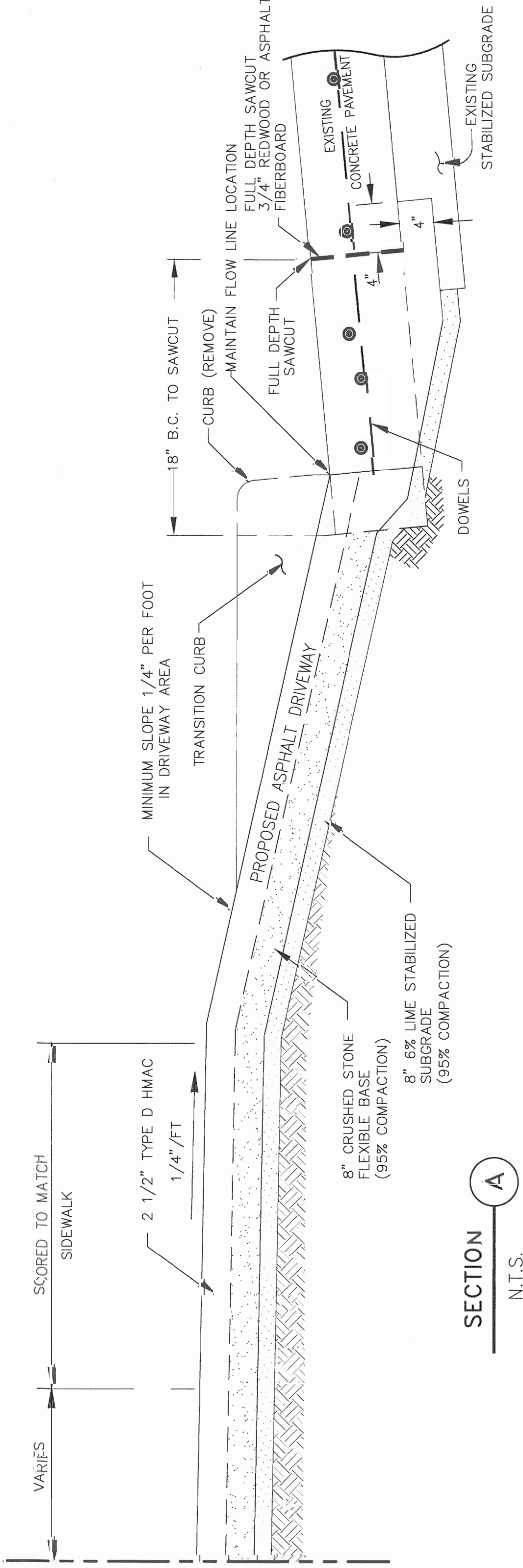
**6\"/>**

N.T.S.

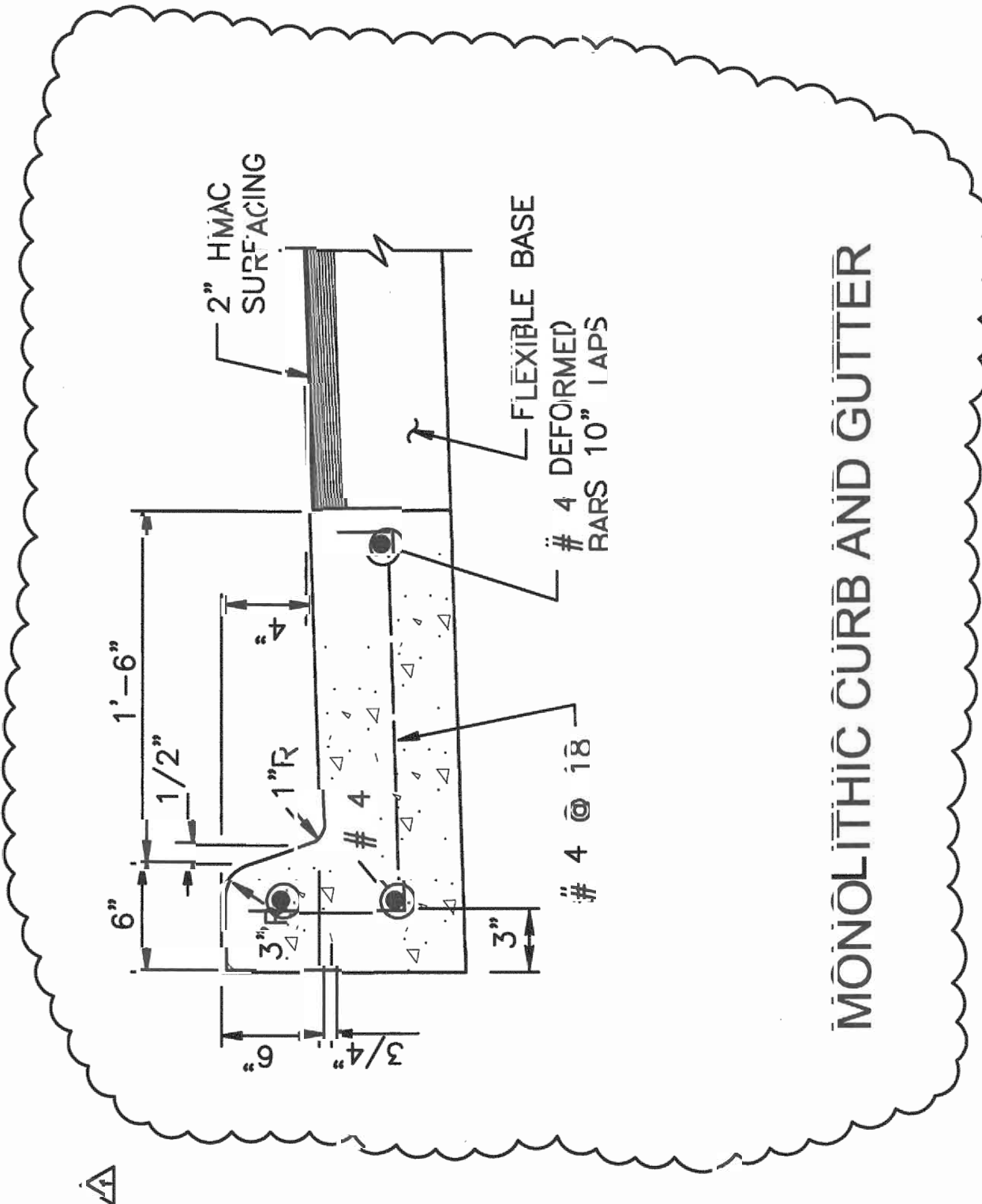


**ASPHALT PAVEMENT SECTION**

N.T.S.



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



**MONOLITHIC CURB AND GUTTER**

**ARCHITECTURE**  
URBAN DESIGN  
INTERIORS  
CONSTRUCTION MANAGEMENT

5555 West Loop, South, Suite #400  
TEL: 713/868-0088 FAX: 713/488-2613

**ESPA**  
CORP

ENGINEERING, ARCHITECTURE & INTERIORS  
7130 GRAND BOULEVARD, SUITE 100  
DALLAS, TEXAS 75231  
(713) 960-5000 FAX (713) 960-0758  
TYPE FORM NO. F-022318

RECREATIONAL COMPLEX  
HCC SOUTHWEST CAMPUS  
5855 SIENNA SPRINGS WAY  
MISSOURI CITY, TEXAS 77459

Date: 05/02/2013

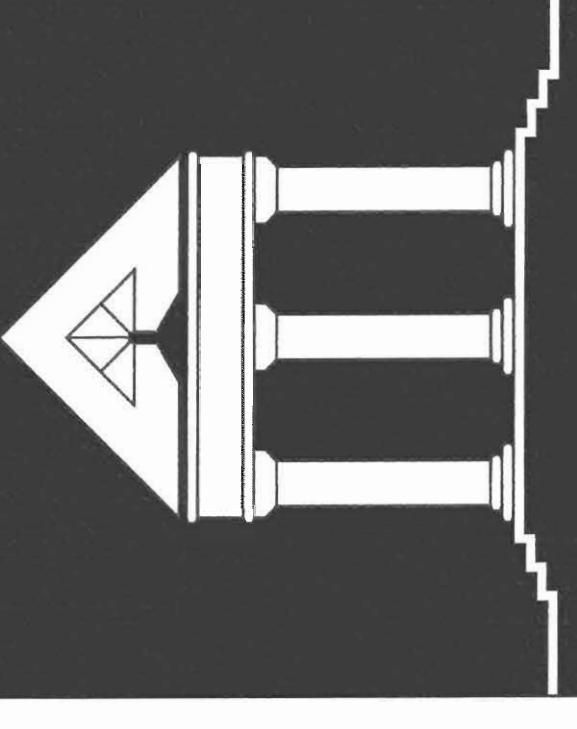
ISSUED FOR PERMIT	04/04/2013
ADDENDUM #2	05/01/2013

**PAVEMENT AND DRIVEWAY DETAILS**

**C13.00**

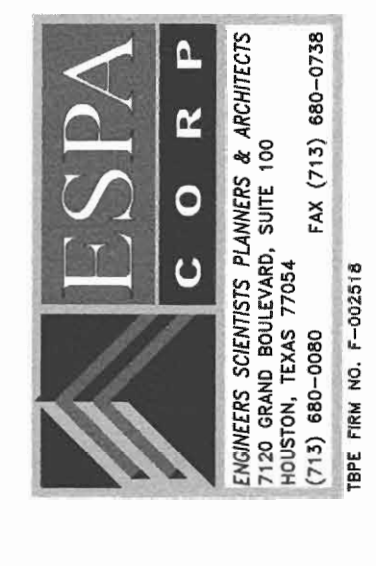
DATE: \_\_\_\_\_ DRAWN BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_





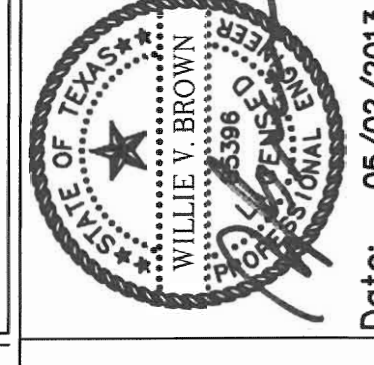
**ARCHITECTURE**  
**URBAN DESIGN**  
**INTERIORS**  
**CONSTRUCTION MANAGEMENT**

5555 West Loop South Suite #400  
 Bellaire, Texas 77401  
 TEL 713/868-0088 FAX 713/468-2613



ENGINEERS ARCHITECTS PLANNERS & ARCHITECTS  
 5855 SIENNA SPRINGS WAY SUITE 100  
 HOUSTON, TEXAS 77054 FAX (713) 860-0088  
 TEL (713) 860-0088

RECREATIONAL COMPLEX  
 HCC SOUTHWEST CAMPUS  
 5855 SIENNA SPRINGS WAY  
 MISSOURI CITY, TEXAS 77459



Date: 05/09/2013  
 ISSUED FOR PERMIT 04/08/2013  
 ADDENDUM #2 05/03/2013

**LIFT STATION DETAILS 1**  
**C 19.0**  
 DATE: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_

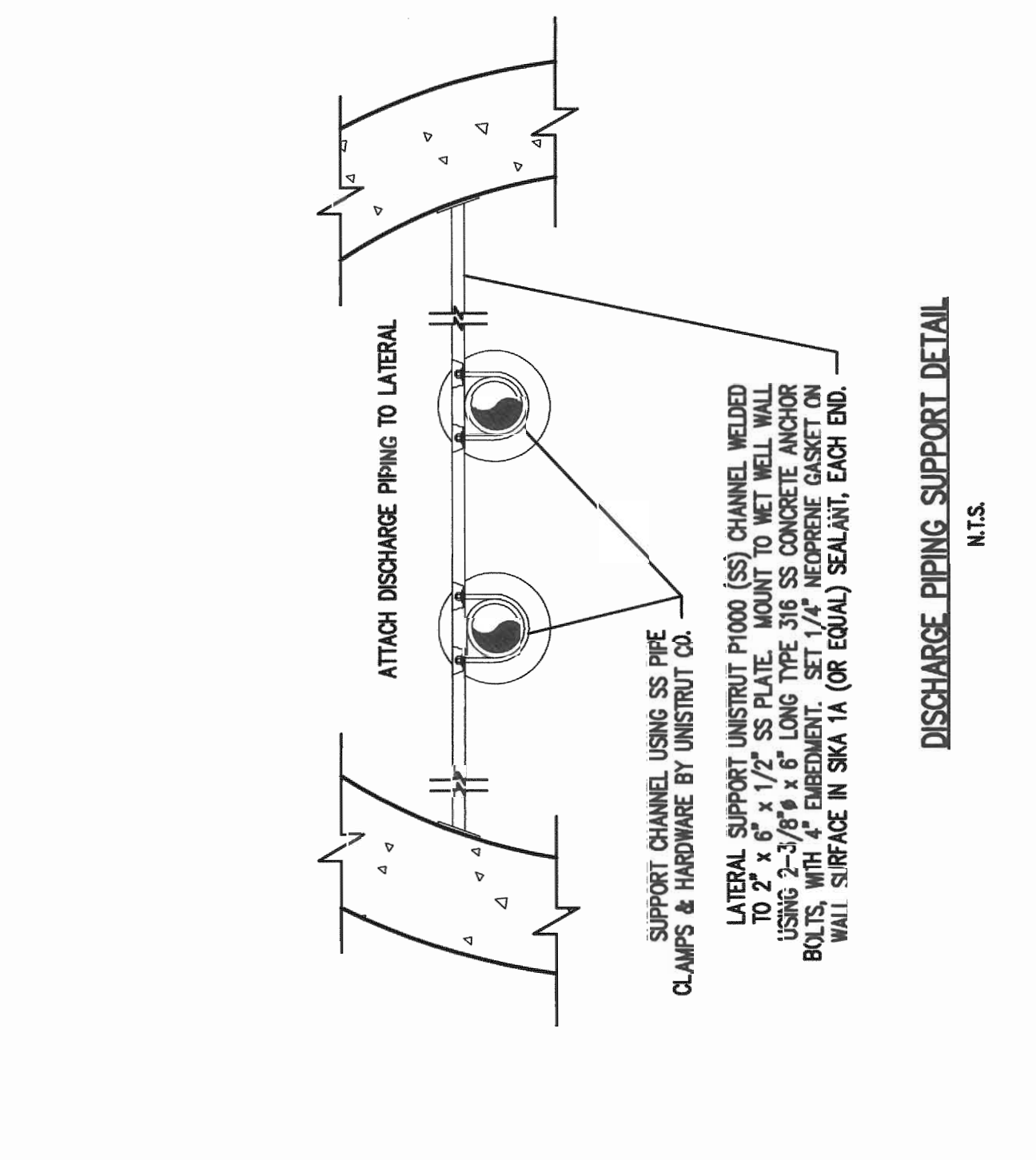
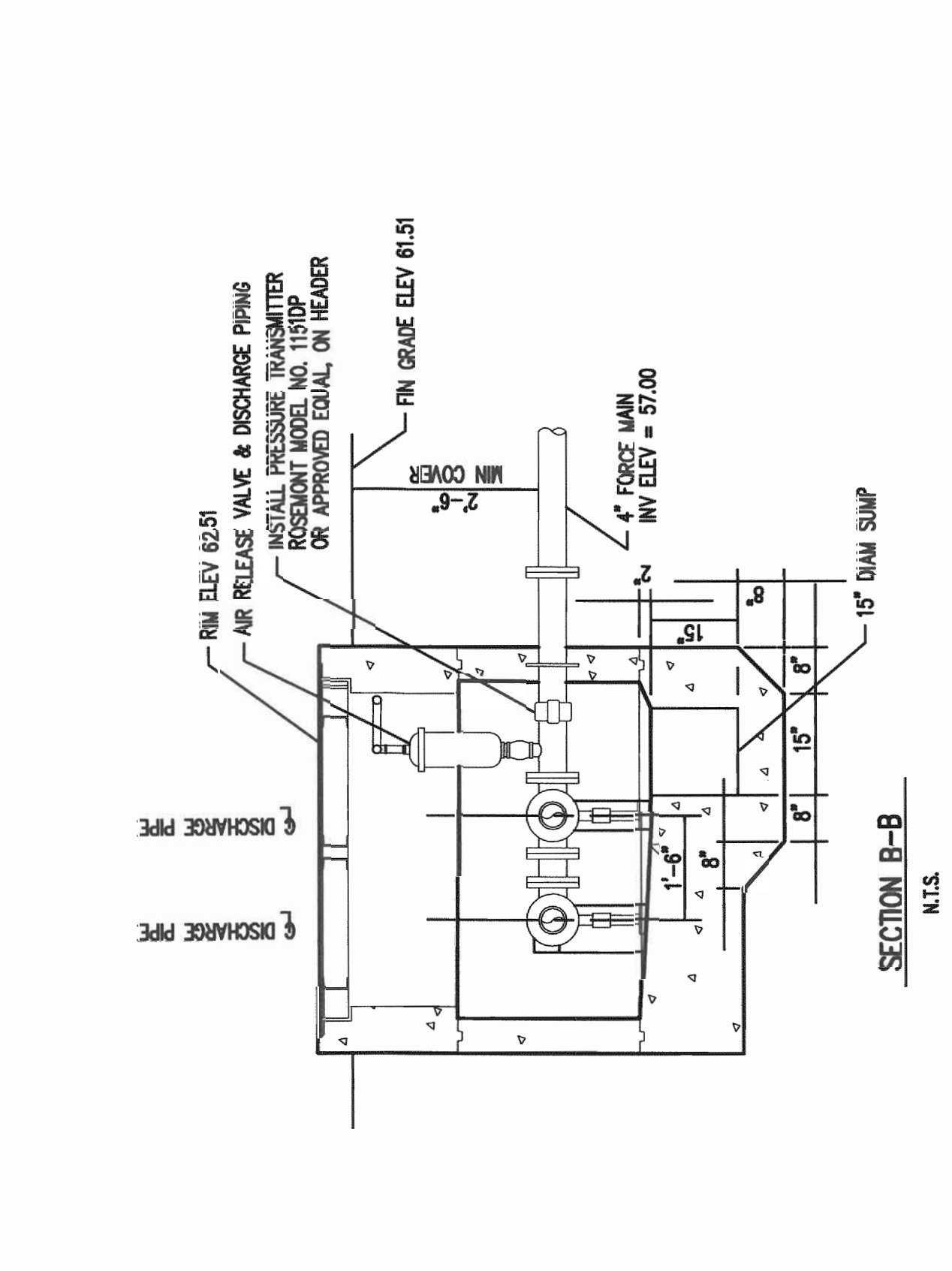
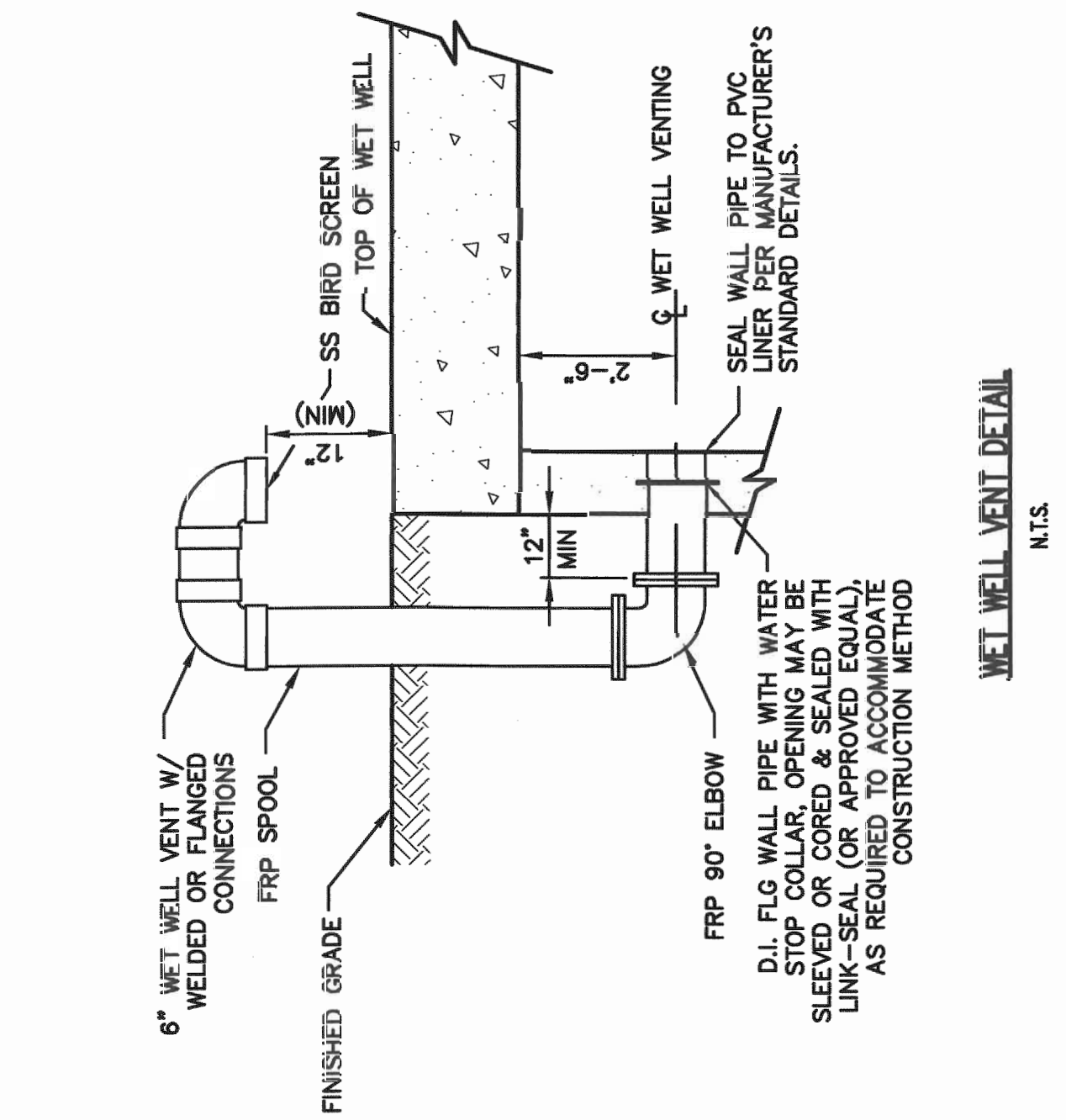
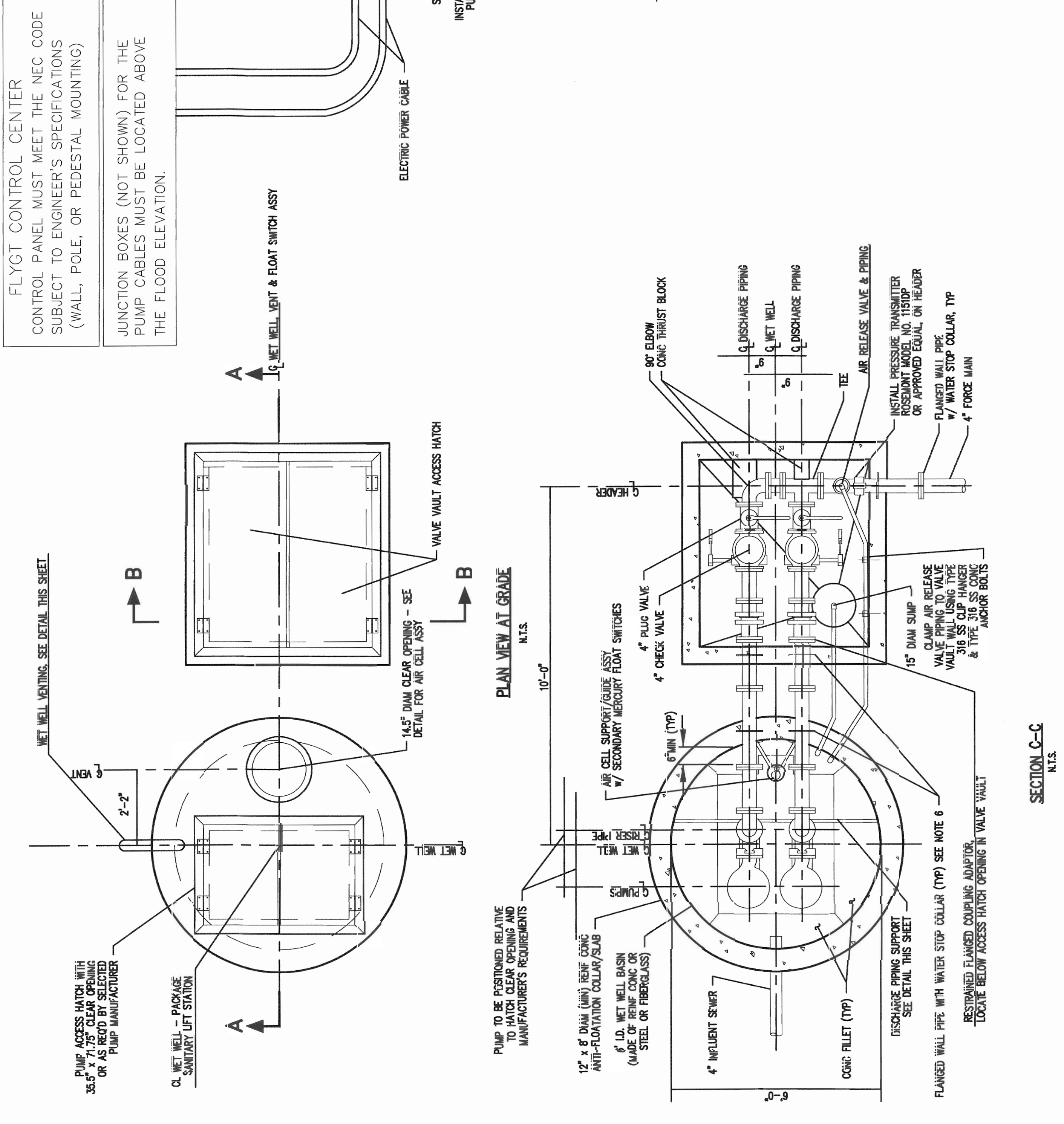
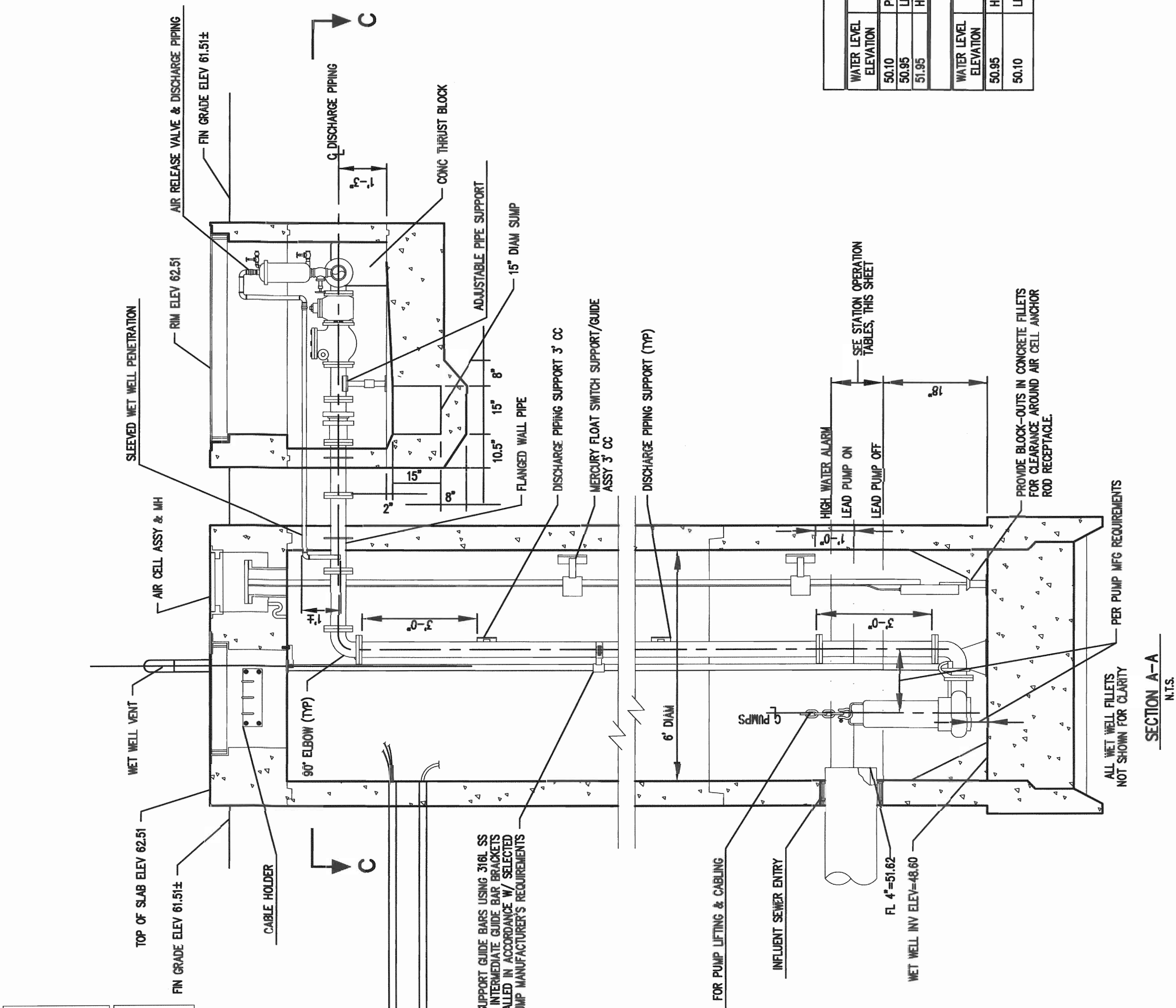
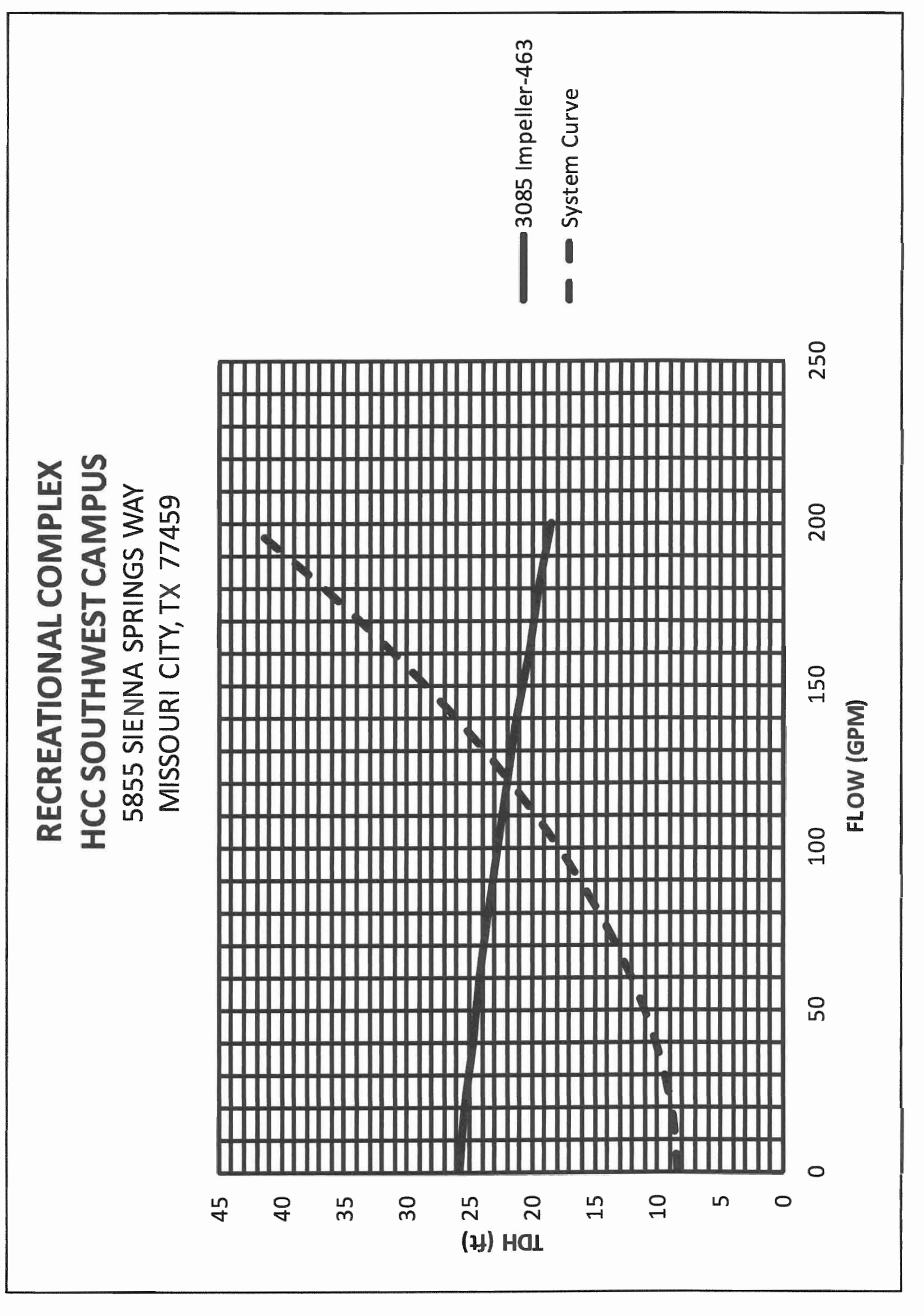
- NOTES:**
1. ALL ITEMS IN THE WELL SHALL BE ACCESSIBLE FROM THE HATCH COVER.
  2. CONTRACTOR TO CONFIRM SIZE AND LOCATION OF HATCH COVER AND HATCH AND PUMP MANUFACTURER'S REQUIREMENTS.
  3. PUMP MANUFACTURER'S REQUIREMENTS SHALL BE CLOSE TO A SEATING POSITION.
  4. INSTALL PLUG VALVES TO OPEN UPWARD AND TO CLOSE TO A SEATING POSITION.
  5. INSTALL CHECK VALVES SO THAT THE WEIGHT LEVER HORIZONTAL CENTER LINE IN THE CLOSED POSITION COVERS THE HATCH COVER AND THE HATCH COVER IS IN THE HORIZONTAL POSITION.
  6. SLEEVED OR CORED DISCHARGE PIPE OPENINGS SEALED WITH LINK-SEAL (OR APPROVED EQUAL) MAY BE USED TO ACCOMMODATE CONSTRUCTION METHOD.
  7. PUMP ANCHOR BOLTS ARE TO BE ADHESIVE TYPE AND EMBEDDED IN CONCRETE SLAB. CONTRACTOR TO PROVIDE DESIGN OF ANCHOR BOLTS DURING SHOP DRAWING SUBMISSION.
  8. CONTRACTOR TO PROVIDE INSURE ANCHORS IN LIFT AND SEAM DESIGN FOR ALL SINKERED CONDITIONS INCLUDING CALCULATIONS DURING SHOP DRAWING SUBMISSION.
  9. ANCHORS IN THE WELL SHALL BE FLANGED. NO FLANGED COUPLING ADAPTERS OR VCTAULO STYLE COUPLINGS SHALL BE PERMITTED INSIDE THE WELL.

**PUMP DATA TABLE**

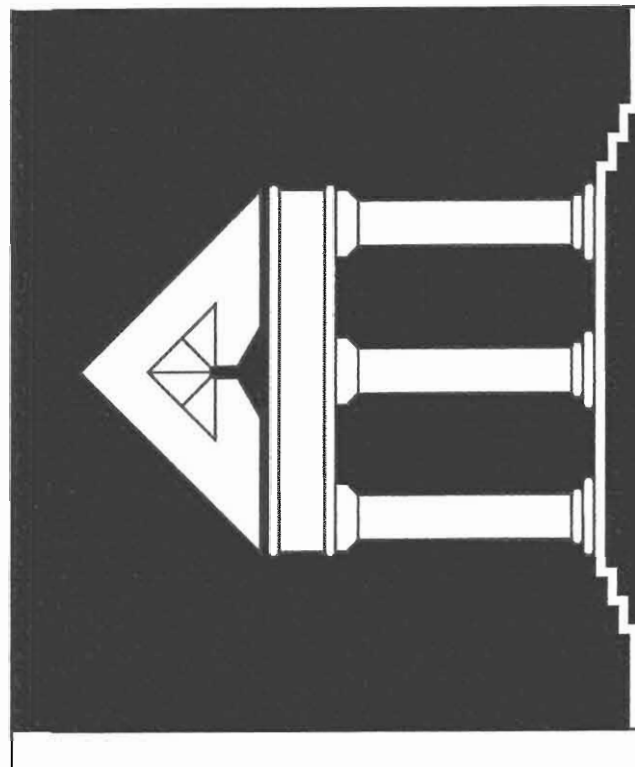
PUMP CHARACTERISTICS	PUMP NO. 1	PUMP NO. 2
MOTOR DATA		
NOMINAL SIZE (HP)	3	3
MAX SPEED (RPM)	1800	1800
SOLIDS PASSAGE	3" DIAM	3" DIAM
2.5" MIN SPHERE DISCHARGES	3" DIAM	3" DIAM
DESIGN CAPACITY (GPM)	120	120
DISCHARGE HEAD (FT)	13.30	13.30
FRICTION	8.40	8.40
STATIC	21.70	21.70
PUMP MFG. FLIGHT MODEL NO. 3085		
PUMP CURVE IMPELLER CODE NO. 463		
3 PHASE 200/460/575 VAC		
PUMP:		
DISCHARGE	4" DIAM	4" DIAM
	4" DIAM	4" DIAM

**STATION OPERATION TABLES**

RISING LEVEL CYCLE	
WATER LEVEL ELEVATION	ACTION
50.10	ALL PUMPS IN OPERATION
50.95	LEAD PUMP OFF
51.85	LEAD PUMP TURNS ON
52.75	HIGH WATER ALARM ON
FALLING LEVEL CYCLE	
WATER LEVEL ELEVATION	ACTION
50.10	LEAD PUMP ON
50.95	LEAD PUMP TURNS OFF
51.85	LEAD PUMP TURNS ON
52.75	PUMP SWITCHES TO LEAD PUMP

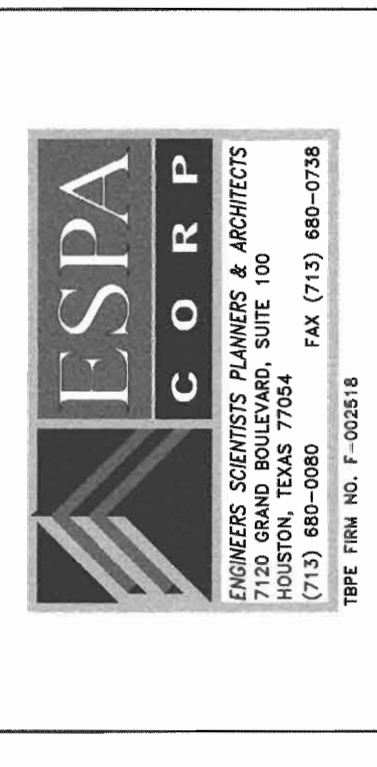







**ARCHI\*TECHNICS/3, INC.**  
 ARCHITECTURE  
 URBAN DESIGN  
 INTERIORS  
 CONSTRUCTION MANAGEMENT

5555 West Loop South, Suite #400  
 Belleire, Texas 77401  
 TEL 713/868-0088 FAX 713/468-2613



**ESPA CORP**  
 ENGINEERS SCIENTISTS PLANNERS & ARCHITECTS  
 11000 WEST LOOP SOUTH, SUITE 100  
 HOUSTON, TEXAS 77040  
 (713) 868-0088 FAX (713) 868-0288  
 TYPE FORM NO. 1-02818

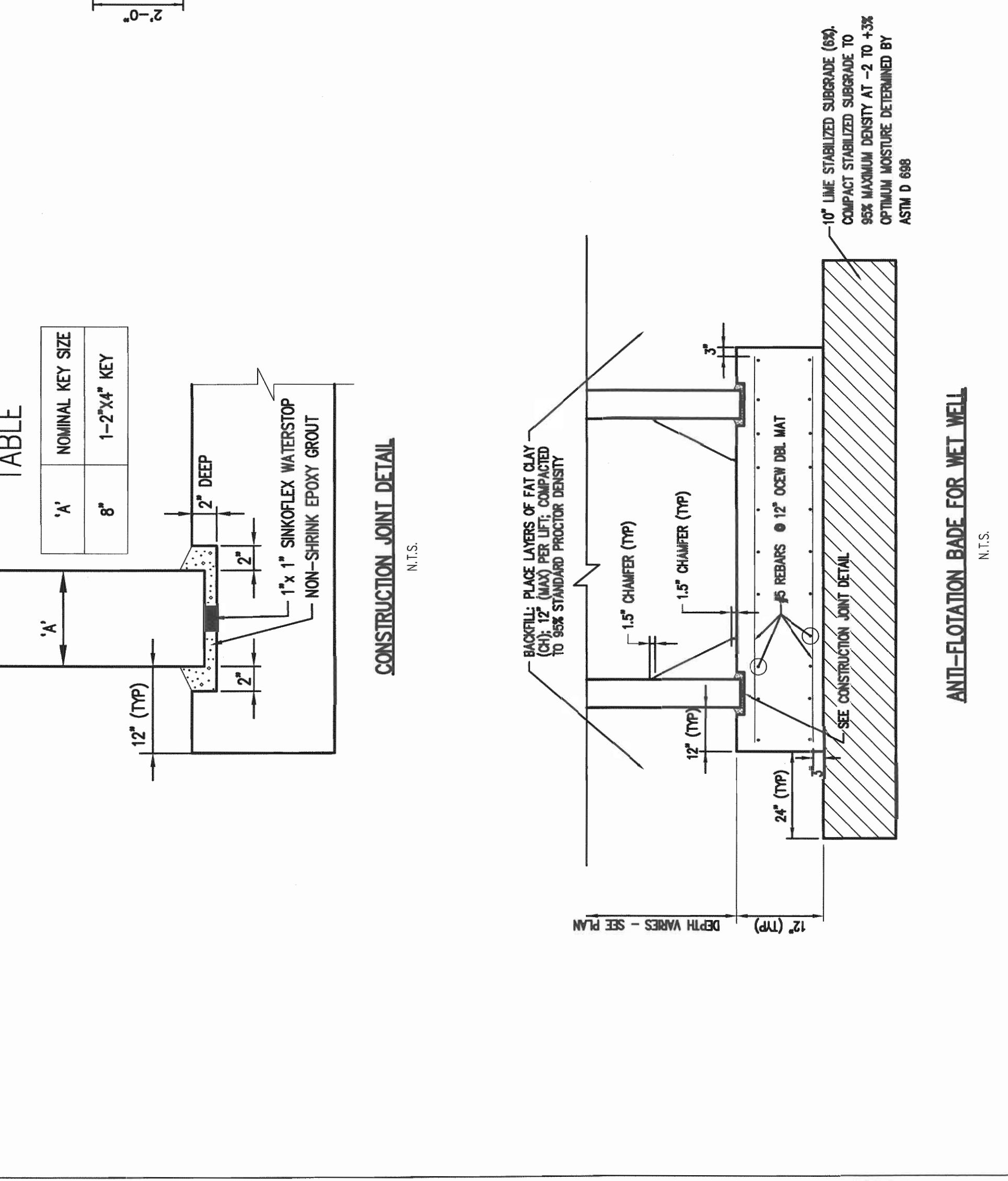
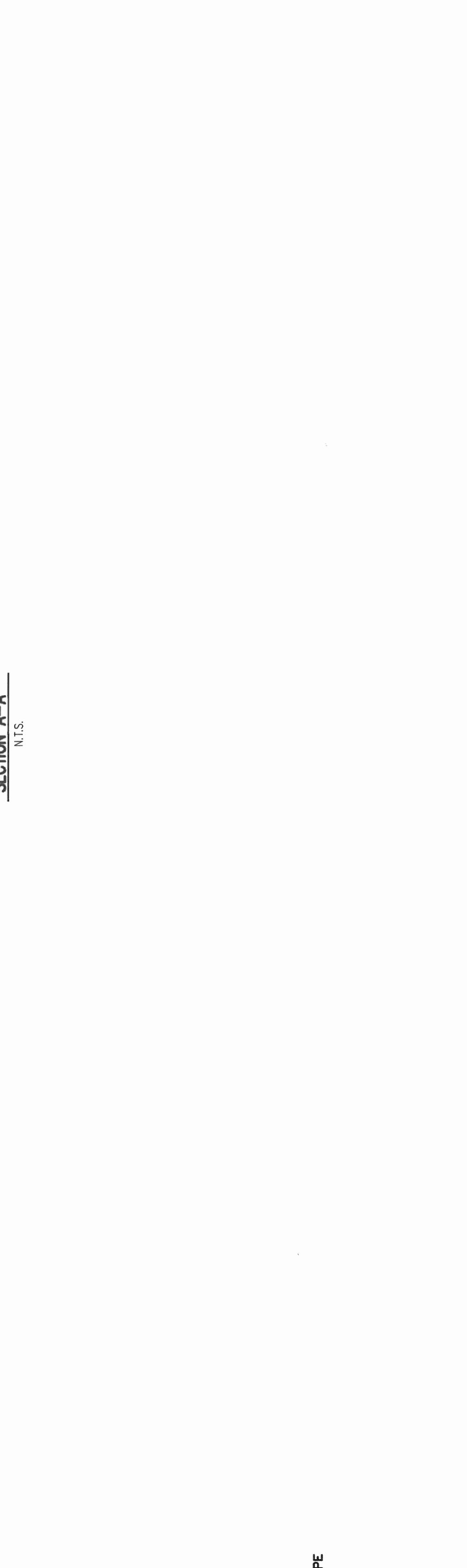
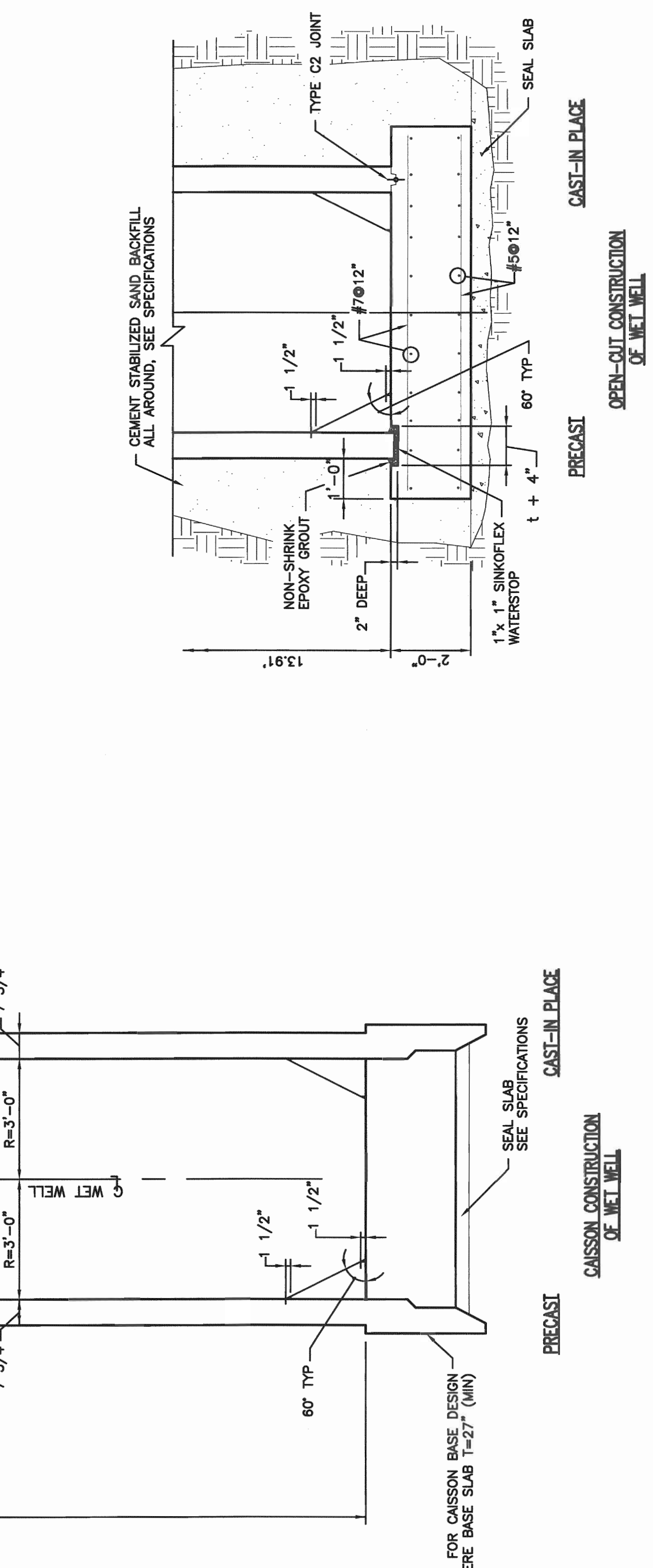
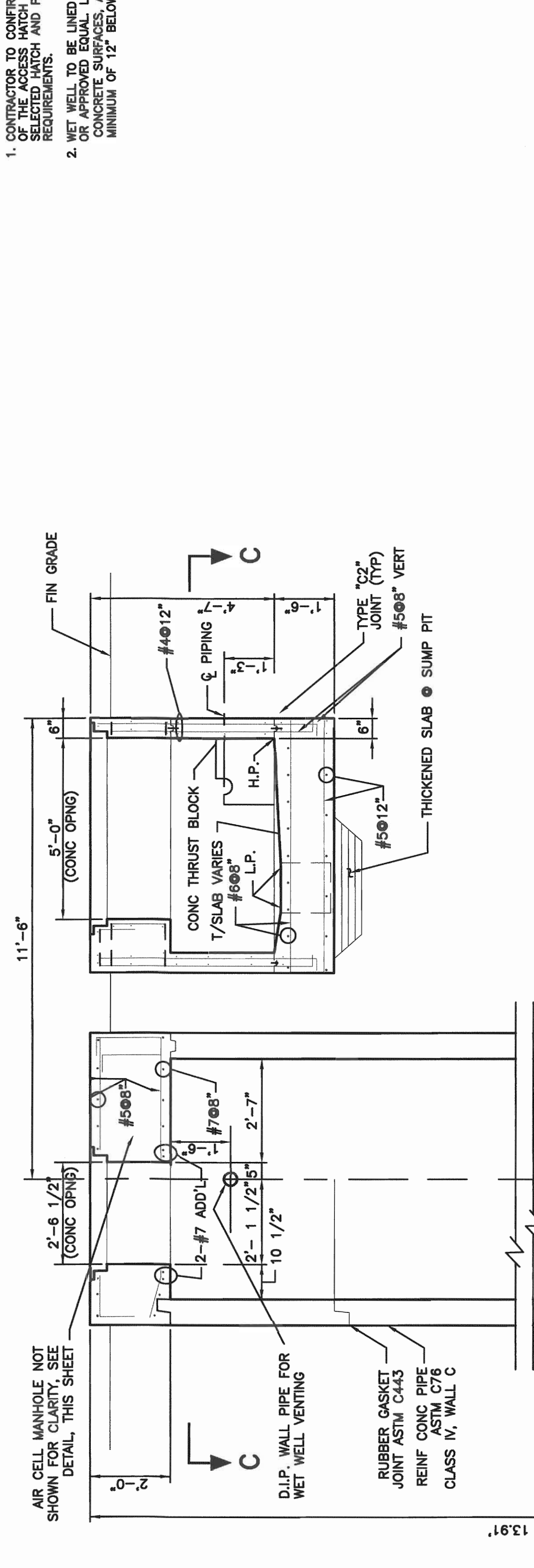
RECREATIONAL COMPLEX  
 HCC SOUTHWEST CAMPUS  
 5855 SIENNA SPRINGS WAY  
 MISSOURI CITY, TEXAS 77459



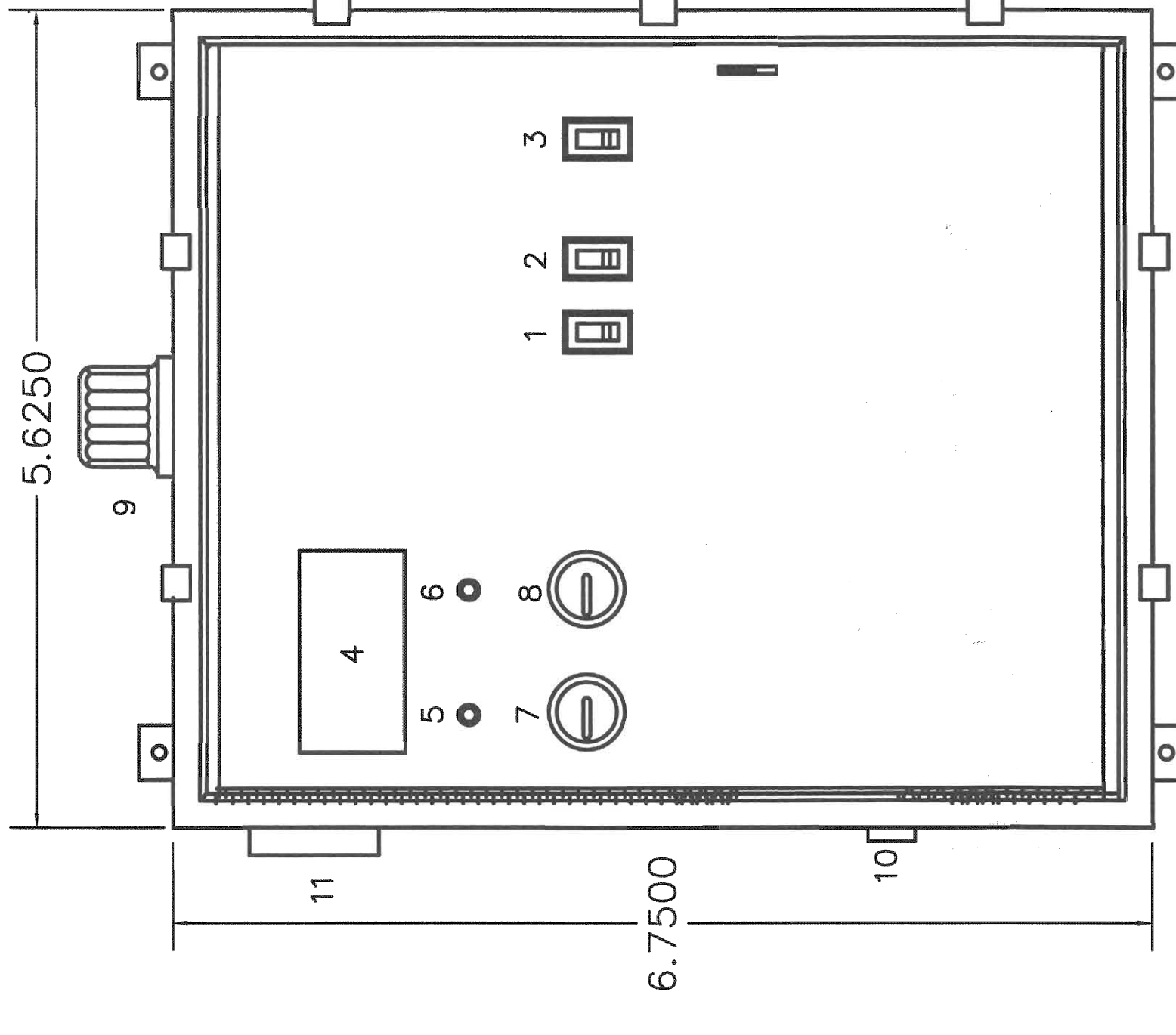
Date: 05/02/2013  
 ISSUED FOR PERMIT: 04/08/2013  
 ADDENDUM #2: 05/03/2013

**LIFT STATION DETAILS 2**  
**C 20.0**  
 DATE: DRAWN BY:  
 CHECKED BY:

- NOTES:**
- CONTRACTOR TO CONFIRM THE SIZE AND LOCATION OF THE ACCESS HATCH OPENINGS ACCORDING TO THE MANUFACTURER'S AND PUMP MANUFACTURERS REQUIREMENTS.
  - WET WELL TO BE LINED WITH T-LOCK® PVC LINER, OR APPROVED EQUAL LINER SHALL COVER ALL INTERIOR SURFACES TO A MINIMUM OF 12" BELOW THE LOW WATER ELEVATION.

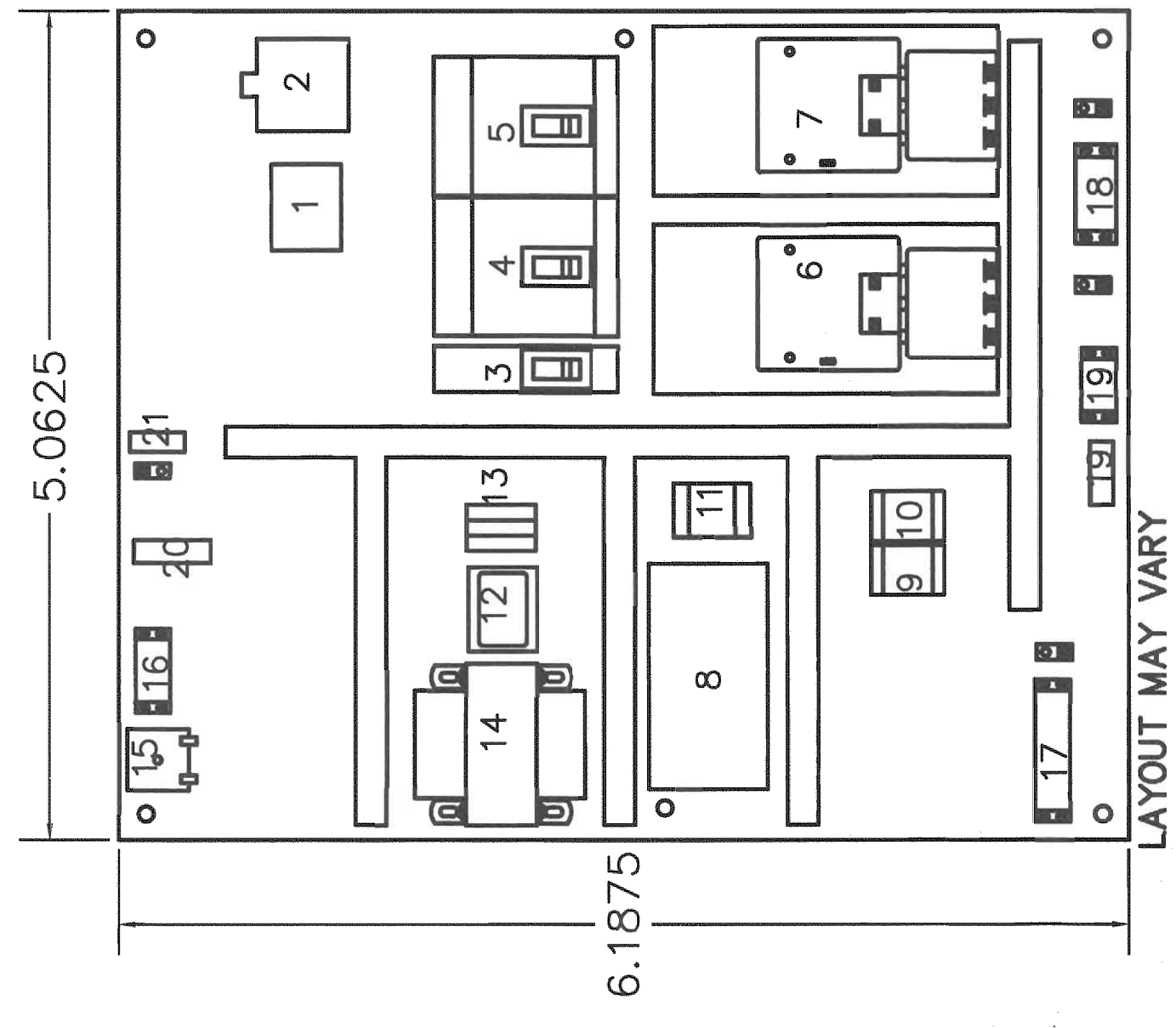




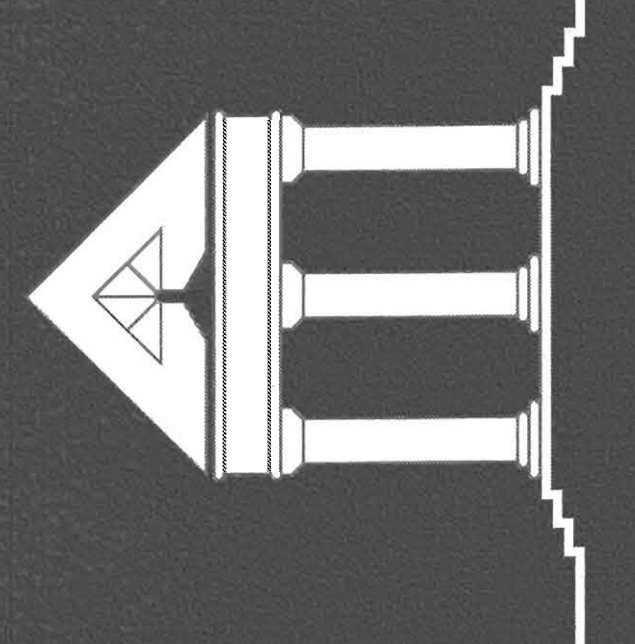
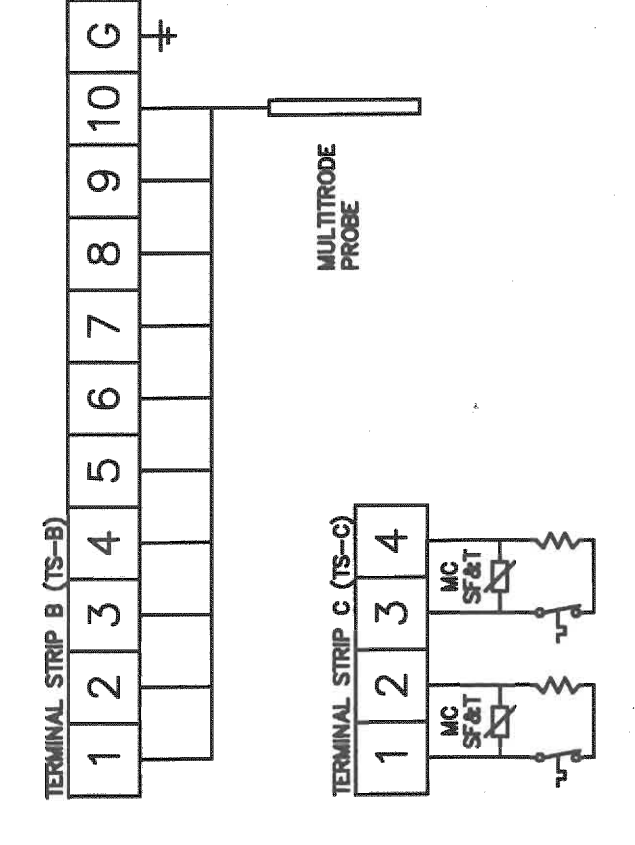
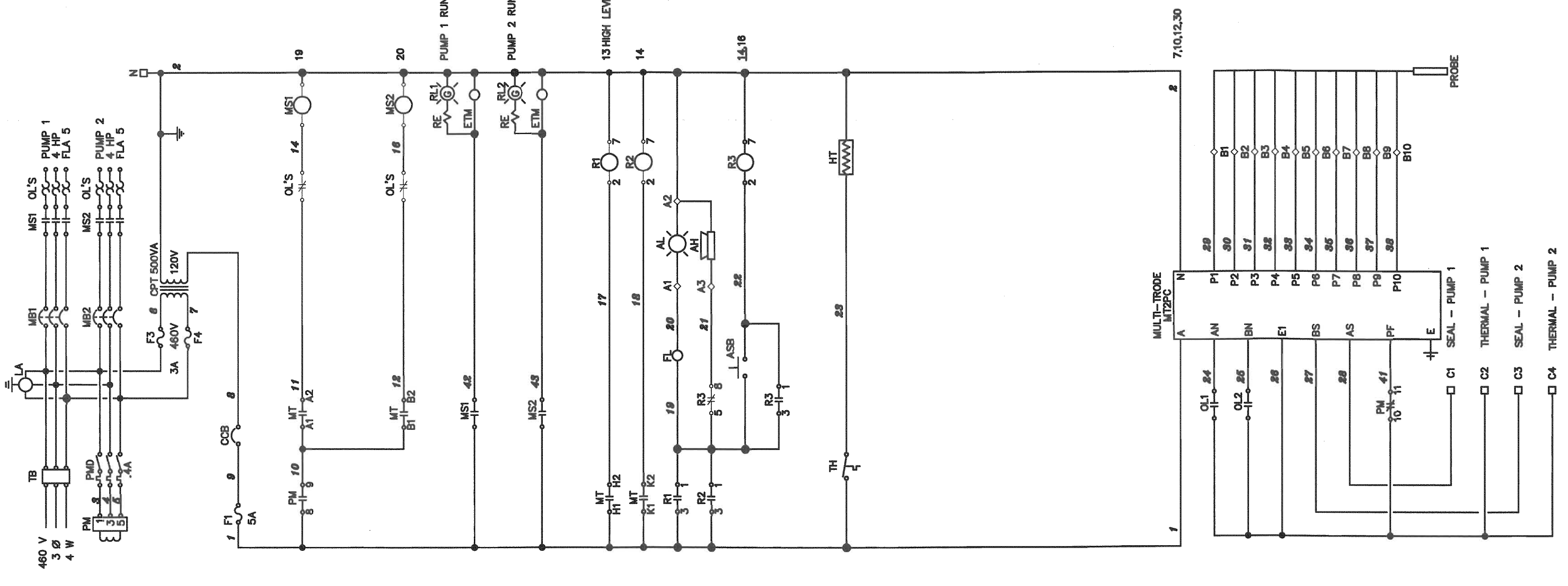


OUTER DOOR HAS BEEN REMOVED FOR CLARITY

- 1 - CCB CONTROL CIRCUIT BREAKER
- 2 - MB1 MOTOR BREAKER 1
- 3 - MB2 MOTOR BREAKER 2
- 4 - MULTITRODE DISPLAY
- 5 - RL1 RUN LIGHT 1
- 6 - RL2 RUN LIGHT 2
- 7 - ETM1 ELAPSED TIME METER PUMP 1
- 8 - ETM2 ELAPSED TIME METER PUMP 2
- 9 - AL ALARM LIGHT
- 10 - ASB ALARM SILENCE BUTTON
- 11 - AH ALARM HORN



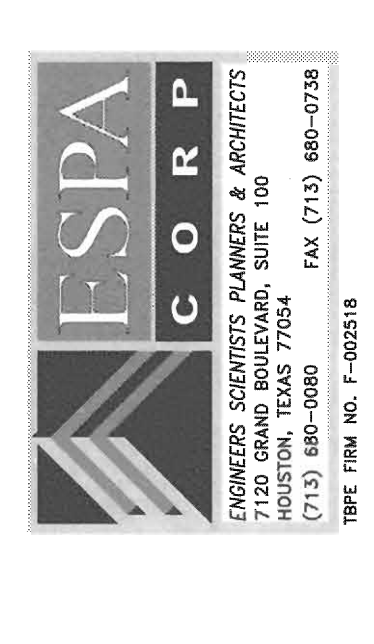
- LAYOUT MAY VARY
- 1 - TB MAIN TERMINAL BLOCK
  - 2 - LA LIGHTNING ARRESTOR
  - 3 - CCB CONTROL CIRCUIT BREAKER
  - 4 - MB1 MOTOR BREAKER 1
  - 5 - MB2 MOTOR BREAKER 2
  - 6 - MS1 MOTOR STARTER 1
  - 7 - MS2 MOTOR STARTER 2
  - 8 - MT MULTITRODE
  - 9 - 11 RY-2 RELAY 1-2
  - 10 - PM PHASE MONITOR
  - 11 - PHASE MONITOR DISCONNECT
  - 12 - CPT CONTROL POWER TRANSFORMER
  - 13 - FL FLASHER
  - 14 - TSA TERMINAL STRIP A
  - 15 - TSB TERMINAL STRIP B
  - 16 - HT HEATER
  - 17 - TSC THERMOSTAT
  - 18 - TH THERMOSTAT
  - 19 - HT HEATER
  - 20 - TH THERMOSTAT
  - 21 - NEUTRAL BLOCK



**ARCHITECTURE**  
**URBAN DESIGN**  
**INTERIORS**  
**CONSTRUCTION MANAGEMENT**

ARCHI\*TECHNICS/3, INC.

5555 West Loop South Suite #400  
Bellevue, Texas 77401  
TEL 713/868-0088 FAX 713/488-2613

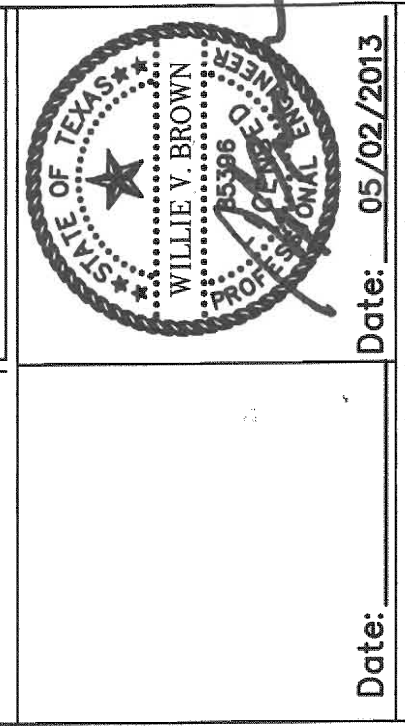


**ESPA**  
**CORP**

ENGINEERS SCIENTISTS PLANNERS & ARCHITECTS  
1420 GARDNER BLVD., SUITE 100  
HOUSTON, TEXAS 77002  
(713) 860-9000 FAX (713) 860-0738  
TYPE FIRM NO. F-002218

RECREATIONAL COMPLEX  
HCC SOUTHWEST CAMPUS

5855 SIENNA SPRINGS WAY  
MISSOURI CITY, TEXAS 77459



Date: 05/09/2013  
ISSUED FOR PERMIT 04/09/2013  
APPENDIX #2 05/03/2013

**LIFT STATION DETAILS 3**

DATE:  
DRAWN BY:  
CHECKED BY:

**C 21.0**