3.9 SCHEDULE

OPERATION	FREQUENCY												
	JAN	FEB	MAR	APR	МАҮ	NUL	JUL	AUG	SEPT	ост	NOV	DEC	TOTAL
Prune Trees (NOT CRAPE MYRTLES)											1		1
Prune Crape Myrtle Trees		1											1
Weed all Site Areas (Pre–Emergent application)		1											1
Lawn Fertilization			1	1	1	1	1	1	1	1	1		9
Lawn SuperSeaweed Application			1			1			1				3
Lawn Mowing	1		1	1	4	4	4	4	1		1		22
Tree and Planting Bed Fertilization			1	1	1	1	1	1	1	1	1		9
Weed all Site Areas (Post–emergent application and by hand if needed)	1		1	1	4	4	4	4	1		1		22
Mulch/Aerate all Site Areas	1			1	1				1				3
Tree Sucker Removal				1	1	1	1	1					5
Insect Control (Inspect)			1		1		1		1		1		5
Litter Pickup (General Clean up)	2	2	4	4	4	4	4	4	4	4	2	2	40
Disease Control (Inspect)			1		1		1		1		1		5
Edging saucers, planting beds, walks	1		1	1	4	4	4	4	1		1	1	22
1 hr. Deep Watering	1	1	1	1	1	4	4	4	4	1	1	1	128hrs
Irrigation System Maintenance	1	1	1	1	1	1	1	1	1	1	1	1	12

END OF SECTION 32 01 90

 Furnish and install Hunter Solar Sync Sensor, manufactured by the Hunter Corporation, 1940 Diamond Street, San Marcus, California, 92069, telephone number 1–800–733– 2823. Coordinate with the General Contractor and Landscape Architect or Owner's Representative for location prior to installation.

2.11 OTHER MATERIALS

A. All other materials not specifically described, such as air relief valves and automatic drain valves, but required for a complete and proper irrigation system installation, shall be new, first quality of their respective kinds and subject to the approval of the Landscape Architect or Owner's Representative.

2.12 TREE GATOR BAGS

A. Provide 'Treegator Slow Release Watering Bags' for Contractor provided trees. Provide a double bag set up for trees 4 inch to 8 inch caliper. Bags should be empty within 5 to 9 hours and then removed and stored off site. On-site storage shall only be allowed with written Owner's Representative approval. Treegator bags are available from (but not limited to) San Jacinto Environmental. Telephone number: 713-957-0909. Contractor shall be responsible for method to fill bags with water.

PART 3 - EXECUTION

3.1 SURFACE CONDITIONS

- A. Prior to work of this Section, carefully inspect the installed work of other trades and verity that such work is complete to the point where this installation may properly commence.
- B. Verify that the irrigation system will be installed in strict accordance with pertinent codes and regulations, the original design, the referenced standards and the manufacturer's recommendations.

3.2 FIELD CONDITIONS

- A. Verify field conditions including property lines, rights–of–ways, tract boundaries, easements, landscape setback lines and any other legal or physical element as required for the successful completion of the project.
- B. In the event of discrepancy, immediately notify the Landscape Architect or Owner's Representative. Do not proceed with installation in areas of discrepancy until such discrepancies have been fully resolved.
- C. Make necessary measurements in the field to insure precise fit of items in accordance with the original design as are commonly encountered underground and take proper precautions not to damage or disturb such improvements. If a conflict exists between such obstacles and the proposed work, promptly notify the Landscape Architect or

5. SITE DRAINAGE SHALL BE MAINTAINED ACROSS THE ENTIRE SITE. NO PONDING OR WATER ENTRAPMENTS SHALL BE ALLOWED.
6. DRAINAGE DITCHES OR SWALES AT THE STREETS SHALL HAVE THE FLOWLINES AND SLOPES OF SHOULDERS MAINTAINED TO PROVIDE FLOW OR STORM DRAINAGE; REMOVE ANY TRASH OR DEBRIS
7. THE LIMITS OF DEMOLITION ARE INDICATED ON THIS SHEET. THE CONTRACTOR SHALL END PAVEMENT AND CURB REMOVAL AT THE "LIMITS OF DEMOLITION" LINE. SAW-
CUTTING METHOD SHALL BE USED AT THESE LOCATIONS.
8. THE DEMOLITION CONTRACTOR SHALL SUBMIT CONSTRUCTION/DEMOLITION SCHEDULE (SIMPLE BAR CHART) TO THE ARCHITECT/ENGINEER WITHIN TWO (2) WEEKS OF NOTICE TO PROCEED. THE DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY ONCE DEMOLITION STARTS.
9. THE DEMOLITION CONTRACTOR TO HAVE AN OFFICE TRAILER ON SITE EQUIPPED WITH TELEPHONE AND TEMPORARY FACILITIES SUCH AS PORTABLE TOILETS.
10. DEMOLITION DOCUMENTS TO BE MAINTAINED ON SITE DURING THE WORK-DRAWINGS, SPECIFICATIONS, ADDENDA, ETC. RECORD ANY SIGNIFICANT CHANGES AND TURN IN AT THE COMPLETION OF THE PROJECT AS-BUILT DRAWINGS.
11. ALL EXISTING DRIVEWAY NOT TO BE USED AND EXISTING DRIVEWAY SIDEWALK AND CULVERTS TO BE REMOVED. THIS AREA TO BE REGARDED TO PROVIDE POSITIVE DRAINAGE.

1. CONTRACTOR SHALL COMPLY WITH ALL CITY REGULATIONS AND SECURE NECESSARY PERMITS REQUIRED BY CITY OF HOUSTON FOR DEMOLITION AND REMOVAL OF

2. CONTRACTOR SHALL PROTECT ALL ADJACENT STREETS FROM DAMAGE DUE TO HEAVY EQUIPMENT OR JOB RELATED VEHICLES.

3. CONTRACTOR SHALL REMOVE ALL MAN-MADE ITEMS (DEBRIS AND GARBAGE) FROM THE COMPLETED DEMOLITION SITE.

4. PROVIDE PEDESTRIAN PROTECTION AS REQUIRED BY THE CITY OF HOUSTON.

GENERAL NOTES

BUILDINGS.

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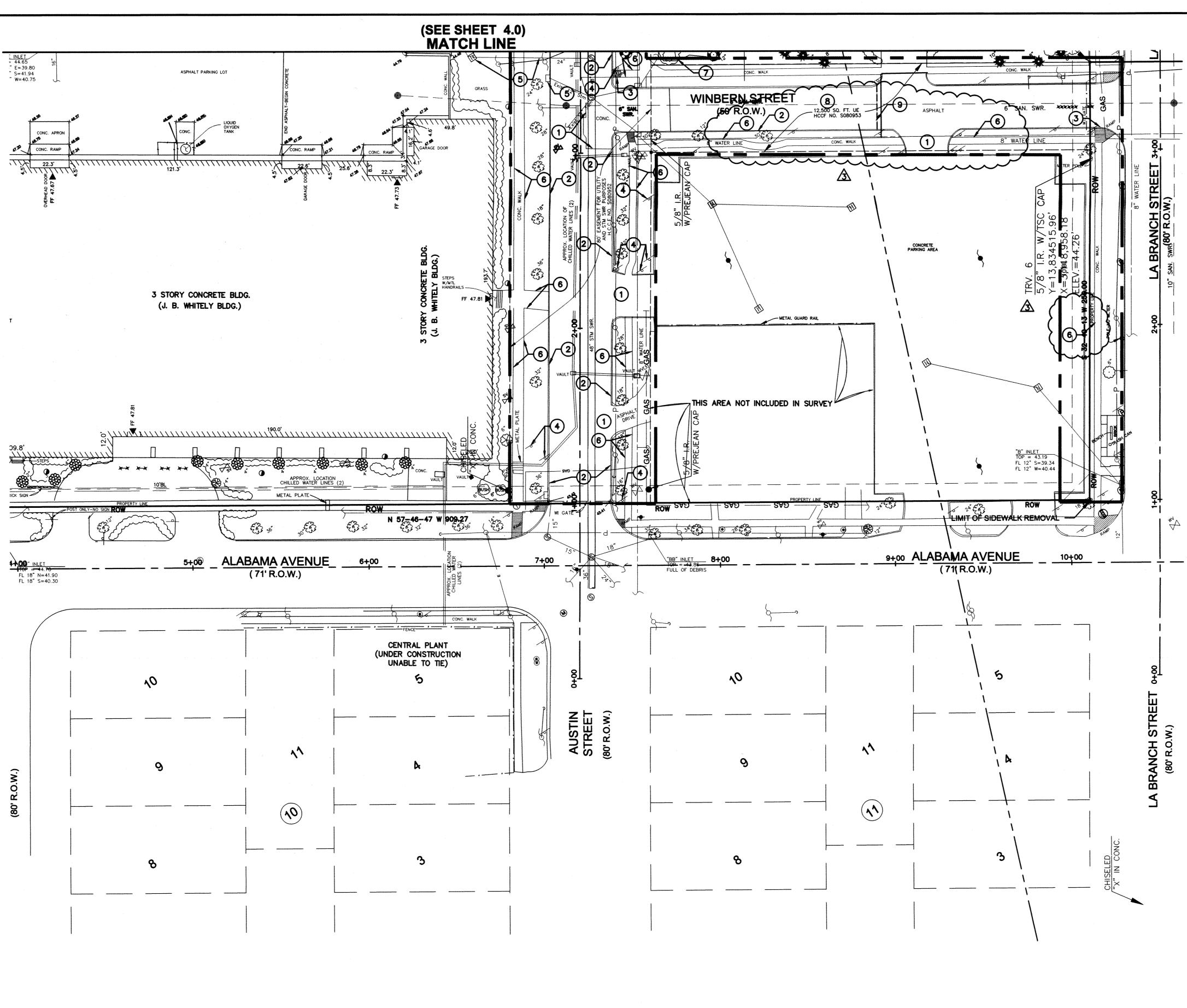
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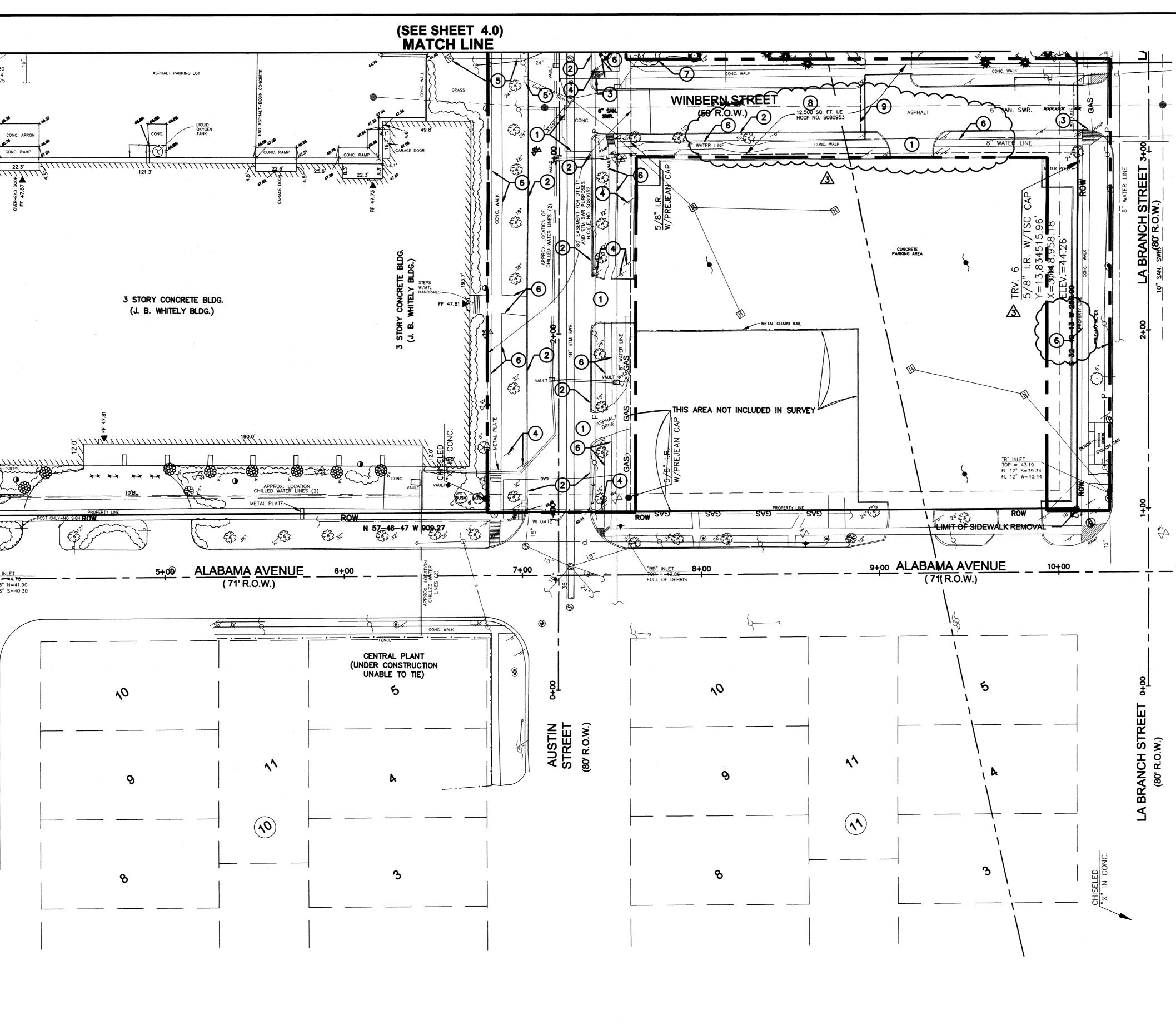
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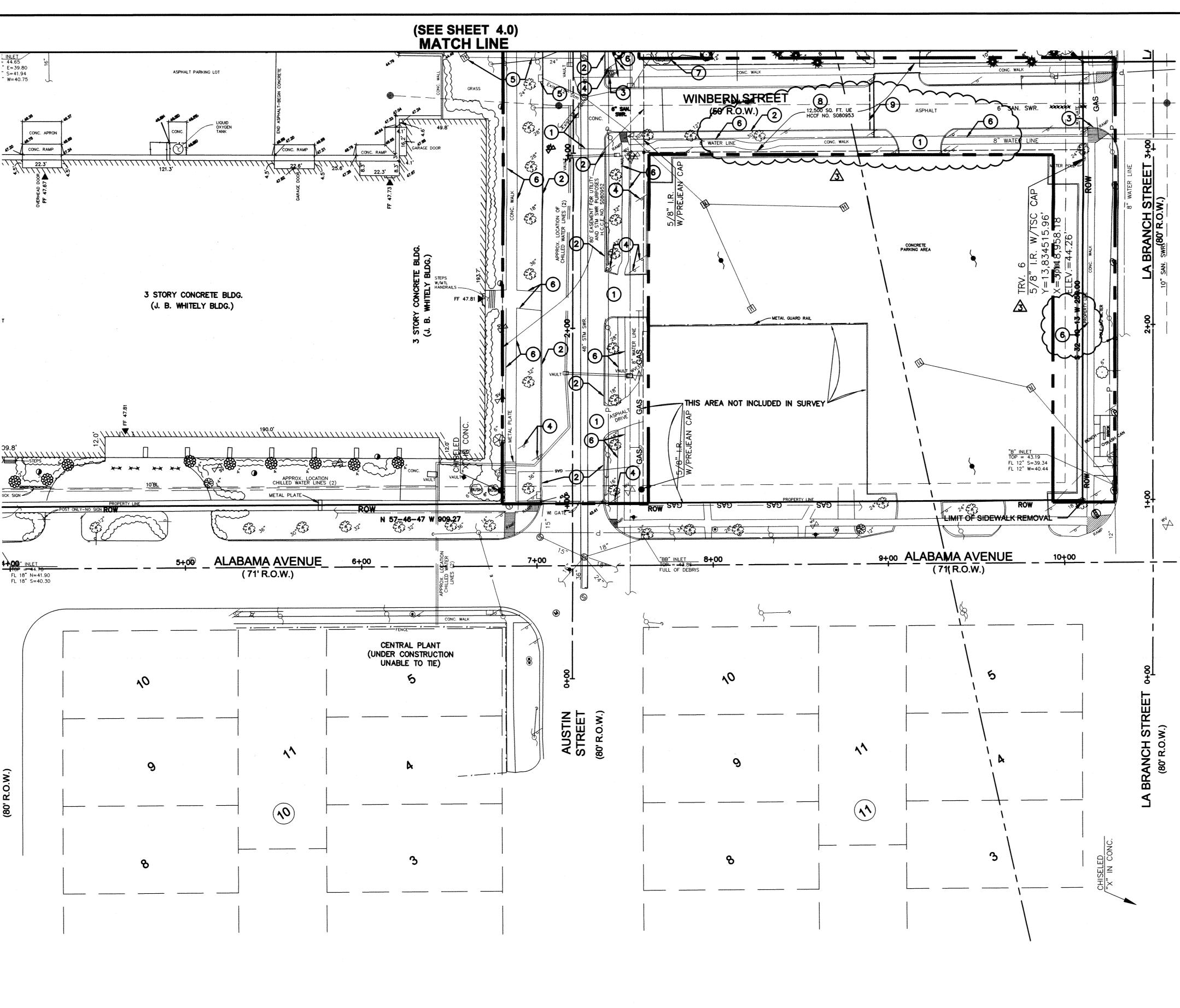
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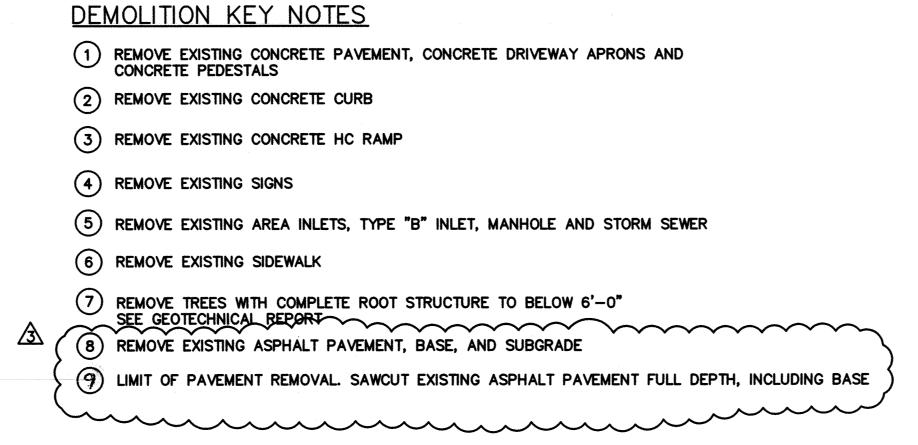
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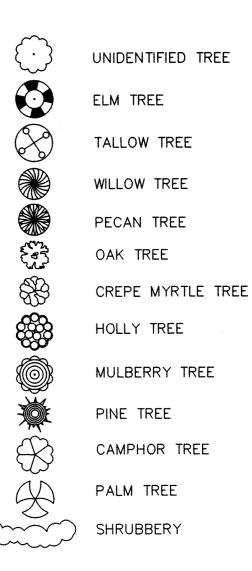
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	LIGHT POLE	
J (E)	H.L. & P. MANHOLE	
6	SANITARY MANHOLE	
T	S.W.B.T. MANHOLE	
Ś	STORM MANHOLE	
•	UNIDENTIFIED MANHOLE	
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(A) (A)	SAMPLE WELL	\sim
● w∨	WATER METER	-0-
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	TELEPHONE PEDESTAL	
	ELECTRIC BOX	
	GRATE INLET	
	CURB INLET	
	FLUSH VALVE	
, D	GUY ANCHOR	
	SANITARY CLEAN OUT	
— P —	OVER HEAD ELECTRIC	
	WATER LINE	
TC	TOP OF CURB	
G	GUTTER	
	FENCE	
	TRAFFIC SIGNAL BOX	
	TRAFFIC SIGNAL	
	TELEPHONE BOX	
P	PARKING METER	
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0	GAS METER BENCH	
$\overline{\bullet}$	SCULPTURE	
	BUILDING ENTRANCE	
FF	FINISHED FLOOR ELEVATION	
DS	DOWN SPOUT	
CV S×	GAS VALVE	
SV	SPRINKLER VALVE	

LIMITS OF DISTURBANCE

30 45 SCALE: 1"=30'

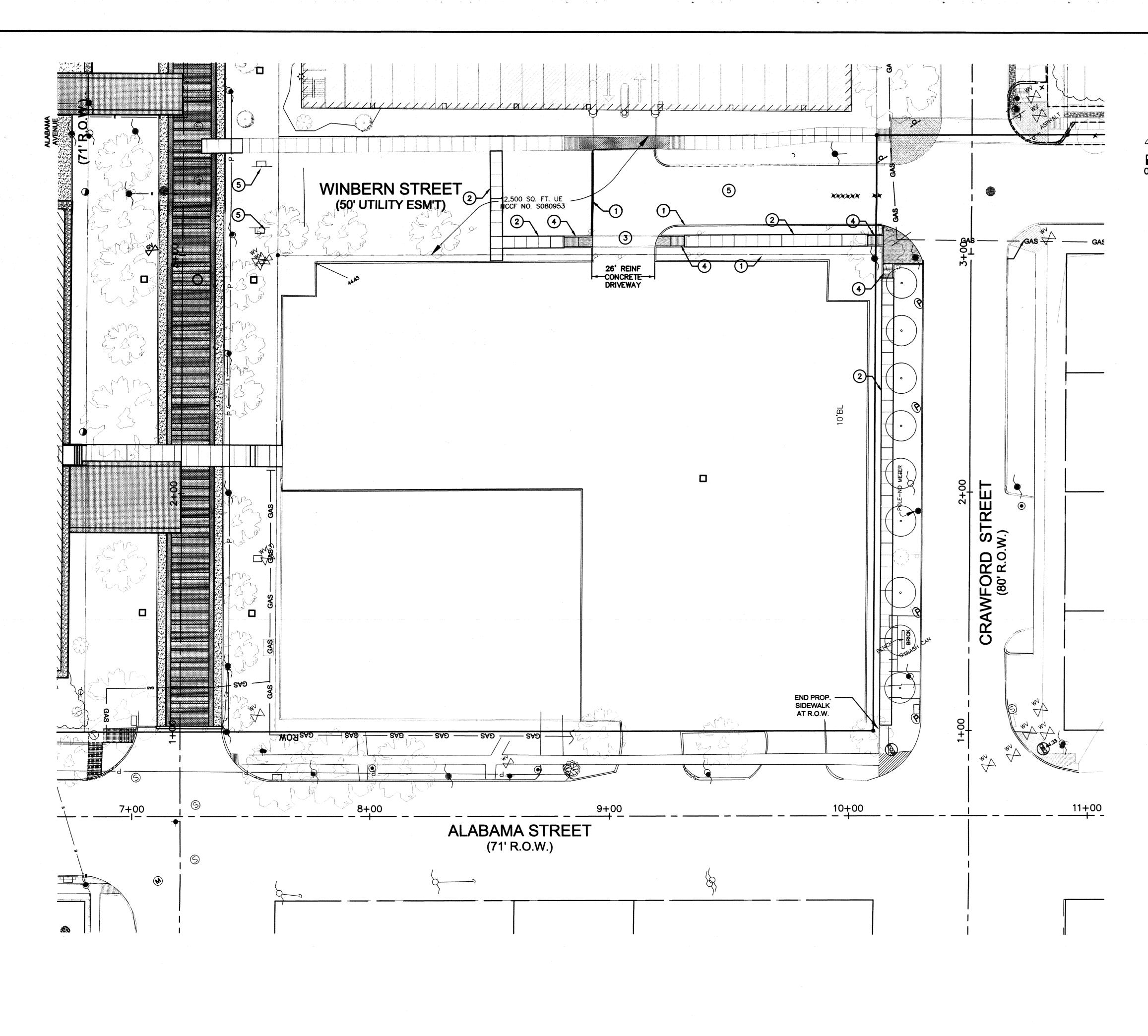
TREE LEGEND

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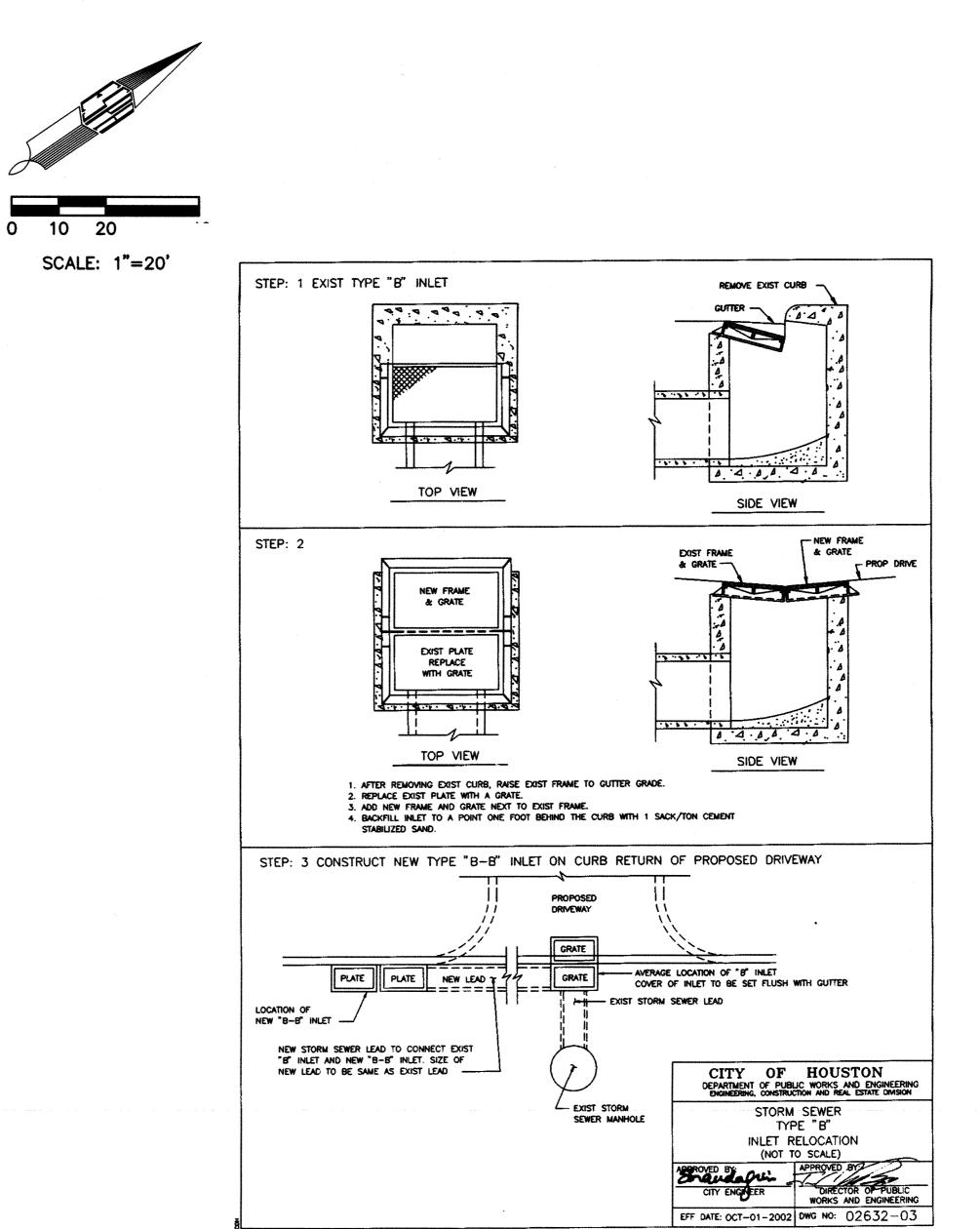


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66—024\Austin St\Austin St 70%\C5.1—Civil Site Plan Winbern St.dwg Plotted: Feb 03, 2014 — 8:54am by willie.browr



LEGEND:

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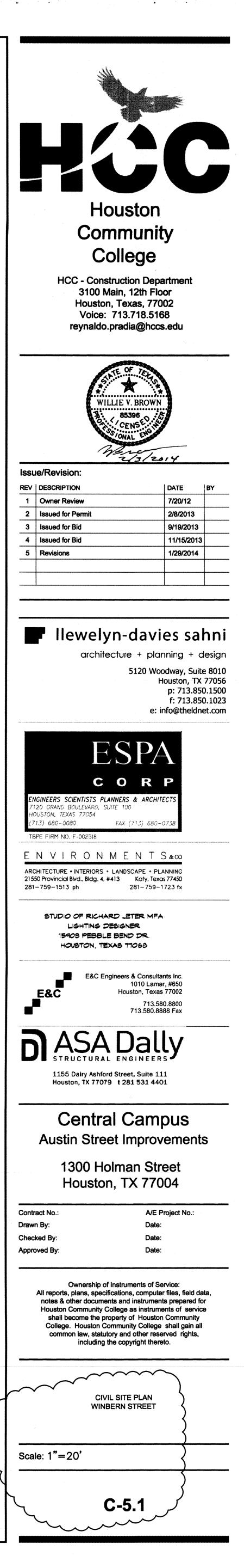
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Å	FIRE DEPARTMENT CONNECTIONS		
	BUILDING		
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KEY NOTES

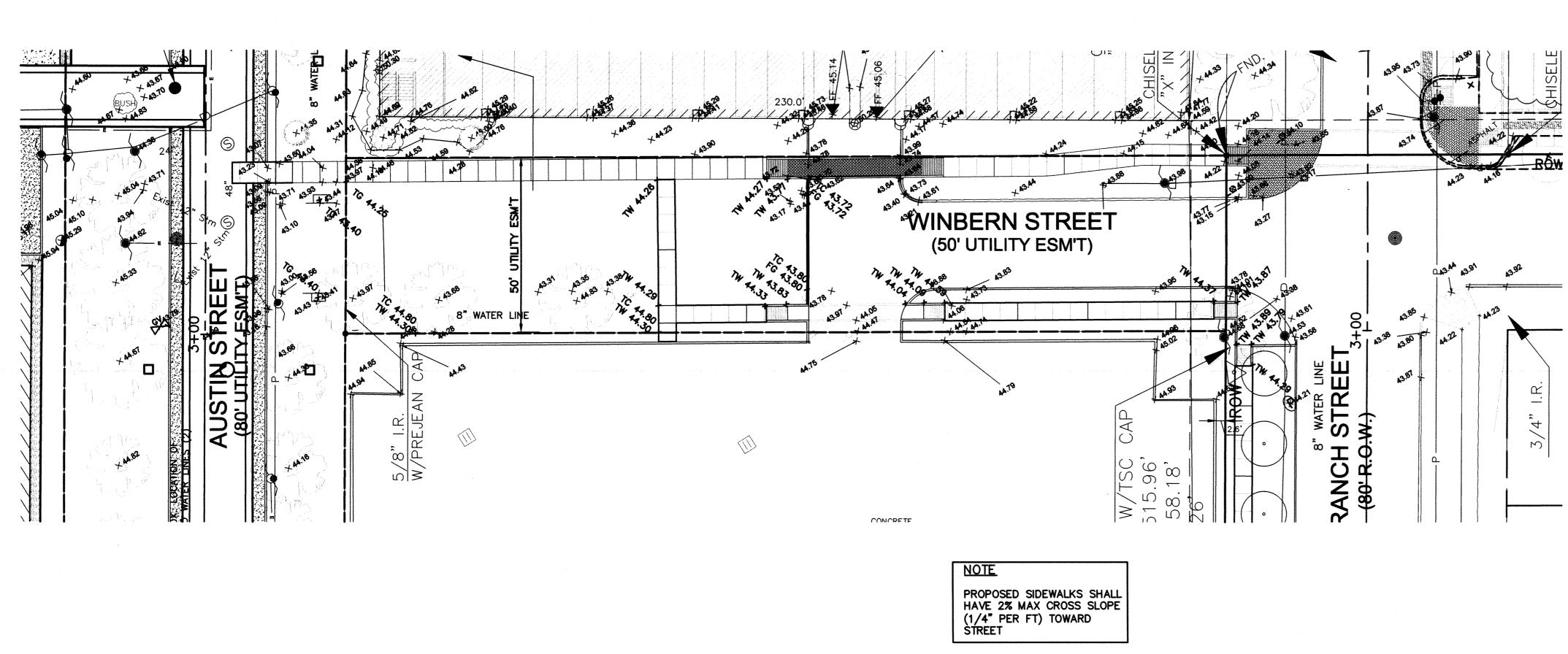
1	PROP 6" MONOLITHIC CURB AND GUTTER; REF C-11.0-A12
2	PROP 5' WIDE CONC SIDEWALK; REF C11.0-A8
3	PROP. CONC DRIVEWAY. REF: COH DETAIL 02754-01
4	PROP HANDICAP RAMP
5	PROP 2" HMAC OVERLAY. MILL OFF 2" EXIST. HMAC PVMT.
6	CONVERT TYPE "B" CURB INLET INTO GRATE INLET. REF COH DETAIL 02632-03, STEP 2 (SEE ABOVE)

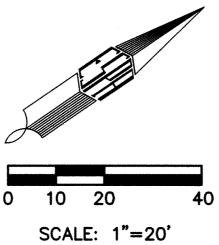
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PECAN TREE

CREPE MYRTLE TREE

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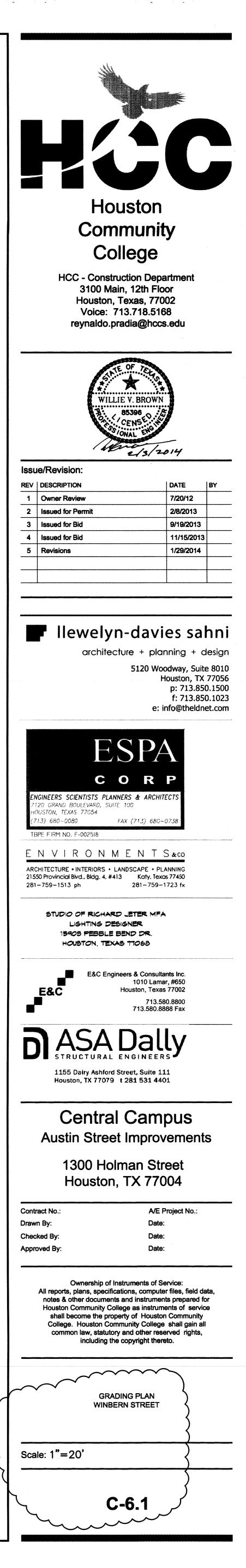
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	WOOD FENCE		
-0	CHAIN LINK FENCE		
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	WILLOW TREE		CAMPHOR TREE

PALM TREE

SHRUBBERY

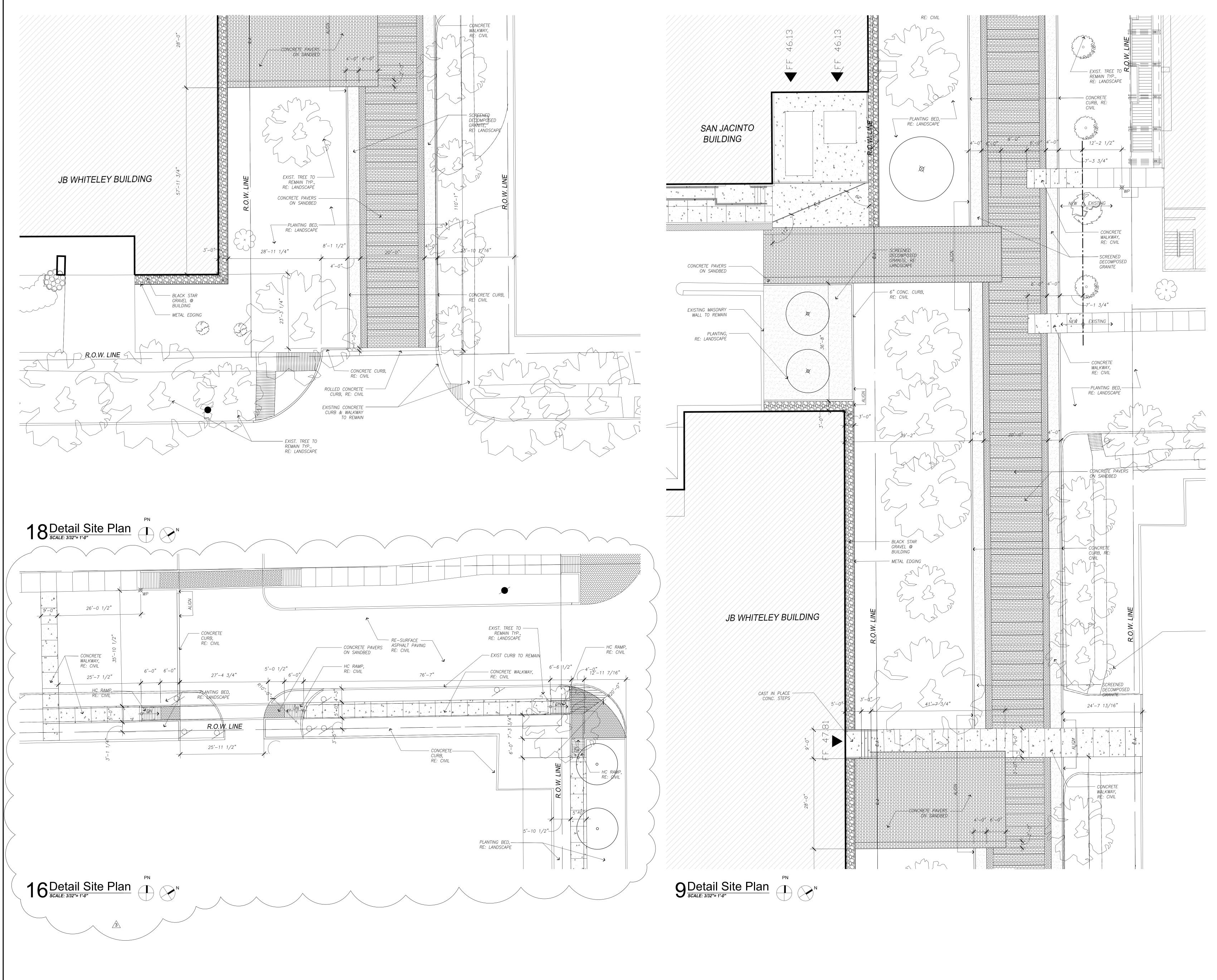
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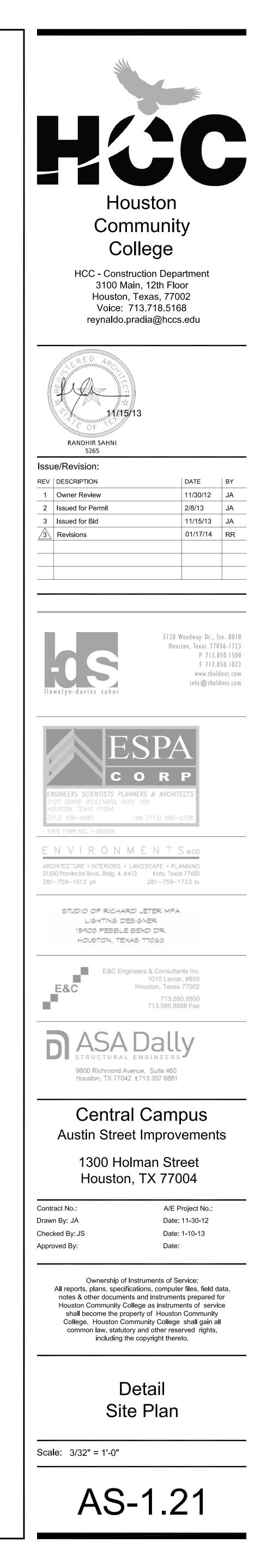
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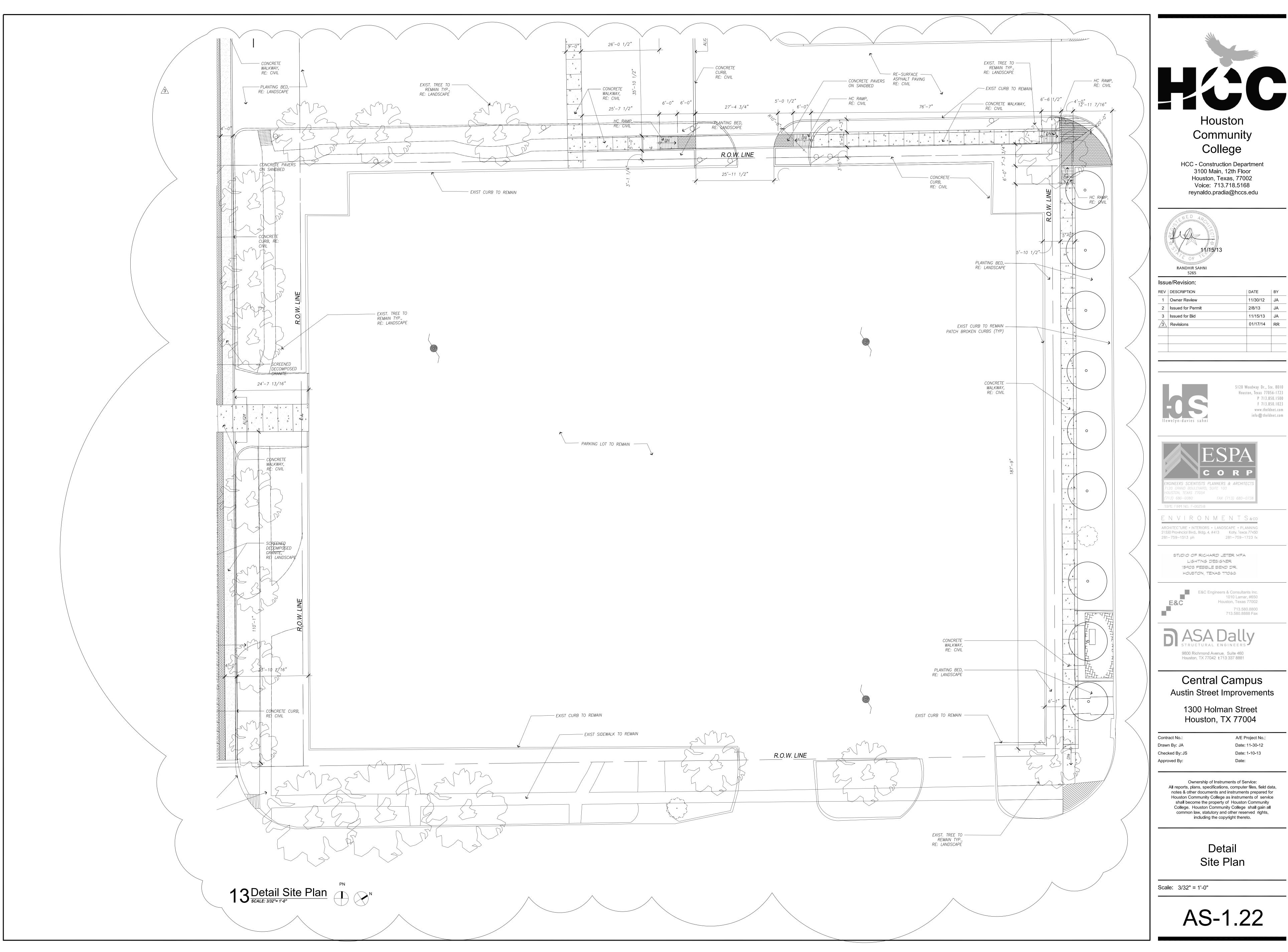


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RFCSP 14-02

AUSTIN STREET IMPROVEMENTS & SAN JACINTO MEMORIAL GREEN (SJMG)

AE Comments

- 1. Construction Sequence Plan (G-1.00) from the San Jacinto Memorial Green Drawings is no longer necessary and can be ignored.
- 2. Added Civil Drawings C-5.1 and C-6.1 to Austin Street Improvements Drawing Set.
- 3. Final Sign Text Schedule for monumental sign (Re: 3/AS-2.00 SJMG Drawing Set) to be provided by Architect.

Contractor Questions & AE Responses:

RFI#1

1. Drawing C-4.1 is missing from the Austin Street plans.

AE Response: Drawing C-4.1 is being issued with Addendum 001.

2. Will there be a demolition drawing issued for the parking lot area surrounded by Austin, Alabama & LaBranch?

AE Response: Please see Drawing C-4.1.

3. Drawing C-5.0 Note 17 references detail A12 on C-11.0.

Detail A12 is a curb and gutter design. Is this the correct type of curb to use at the perimeter of the decomposed granite?

AE Response: No. Please see SKC-2-Rev 1 – Addendum 001.

4. Drawing C-5.0 Note 14 references detail A8 on C-11.0.

Detail A8 shows 6" concrete beneath the pavers. Is this correct?

AE Response: Yes.

5. The Unit Price Proposal has several items which require multiple unit prices; such as utility pipe and trees.

Is it acceptable to submit additional pages with the proposal to list these?

AE Response: Yes Please additional pages as needed for multiple unit prices as well as 'add' and 'deduct' unit prices.

RFI#2

1. Drawing AS-3.01 designates Redwood, Stained Wood, and Wood Decking.

Spec 06 20 13 specifies lpe or Cumaru.

What is the correct wood species for the deck and seating?

AE Response: Please see Addendum 001. All exterior wood decking and seating is lpe or Cumaru.

2. FYI: Drawing AS-3.04 has two (2) detail 10's.

AE Response: Please see Addendum 001

3. Details 10, 11, 13, 14, 15, and 16 on Drawing AS-3.00 have crushed base beneath the pavers.

Details 18, 19, and 20 have concrete beneath the pavers.

How do you determine which area of pavers have base, and which areas have concrete?

AE Response: Please see Addendum 001. We are not using crushed concrete beneath pavers. All pavers to be installed on concrete slab base.

RFI#3

- Is the Ipe decking thickness to be 1x or 2x?
 AE Response: Ipe or Cumaru thickness to be 2X or 1-1/2".
- Detail 10 Drawing AS-1.07: is this deck to be composite or Ipe?
 AE Response: This deck is composite.
- Drawing AS-1.02C: Are all of the decks on this page considered as Alternate 1?
 AE Response: All decks shown on Drawing No. 17/AS-1.02C are part of Alternate 1.

RFI#4

1. Drawing LP-1.01 SanJac Mem.: what is the unidentified texture pattern surrounding the 15 Allee Elm square planters?

AE Response: There is crushed limestone at base of tree and decomposed granite around that. Please see Addendum 001 – LP -1.01.

2. Does the area across Holman Street require irrigation?

AE Response: (3) Trees within the courtyard across San Jac Plaza are to use Treegator bags for watering. Please reference spec 32 80 00.

3. Where is the existing irrigation controller located?

AE Response: Controller is provided under Austin Street Improvements Package. Please see Addendum 001 – LI -1.02.

RFCSP 14-02

AUSTIN STREET IMPROVEMENTS & SAN JACINTO MEMORIAL GREEN (SJMG)

AE Comments

- 1. Construction Sequence Plan (G-1.00) from the San Jacinto Memorial Green Drawings is no longer necessary and can be ignored.
- 2. Added Civil Drawings C-5.1 and C-6.1 to Austin Street Improvements Drawing Set.
- 3. Final Sign Text Schedule for monumental sign (Re: 3/AS-2.00 SJMG Drawing Set) to be provided by Architect.

Contractor Questions & AE Responses:

RFI#1

1. Drawing C-4.1 is missing from the Austin Street plans.

AE Response: Drawing C-4.1 is being issued with Addendum 001.

2. Will there be a demolition drawing issued for the parking lot area surrounded by Austin, Alabama & LaBranch?

AE Response: Please see Drawing C-4.1.

3. Drawing C-5.0 Note 17 references detail A12 on C-11.0.

Detail A12 is a curb and gutter design. Is this the correct type of curb to use at the perimeter of the decomposed granite?

AE Response: No. Please see SKC-2-Rev 1 – Addendum 001.

4. Drawing C-5.0 Note 14 references detail A8 on C-11.0.

Detail A8 shows 6" concrete beneath the pavers. Is this correct?

AE Response: Yes.

5. The Unit Price Proposal has several items which require multiple unit prices; such as utility pipe and trees.

Is it acceptable to submit additional pages with the proposal to list these?

AE Response: Yes Please additional pages as needed for multiple unit prices as well as 'add' and 'deduct' unit prices.

RFI#2

 Drawing AS-3.01 designates Redwood, Stained Wood, and Wood Decking. Spec 06 20 13 specifies Ipe or Cumaru.

What is the correct wood species for the deck and seating?

AE Response: Please see Addendum 001. All exterior wood decking and seating is lpe or Cumaru.

2. FYI: Drawing AS-3.04 has two (2) detail 10's.

AE Response: Please see Addendum 001

3. Details 10, 11, 13, 14, 15, and 16 on Drawing AS-3.00 have crushed base beneath the pavers.

Details 18, 19, and 20 have concrete beneath the pavers.

How do you determine which area of pavers have base, and which areas have concrete?

AE Response: Please see Addendum 001. We are not using crushed concrete beneath pavers. All pavers to be installed on concrete slab base.

RFI#3

- Is the Ipe decking thickness to be 1x or 2x?
 AE Response: Ipe or Cumaru thickness to be 2X or 1-1/2".
- Detail 10 Drawing AS-1.07: is this deck to be composite or Ipe?
 AE Response: This deck is composite.
- Drawing AS-1.02C: Are all of the decks on this page considered as Alternate 1?
 AE Response: All decks shown on Drawing No. 17/AS-1.02C are part of Alternate 1.

RFI#4

1. Drawing LP-1.01 SanJac Mem.: what is the unidentified texture pattern surrounding the 15 Allee Elm square planters?

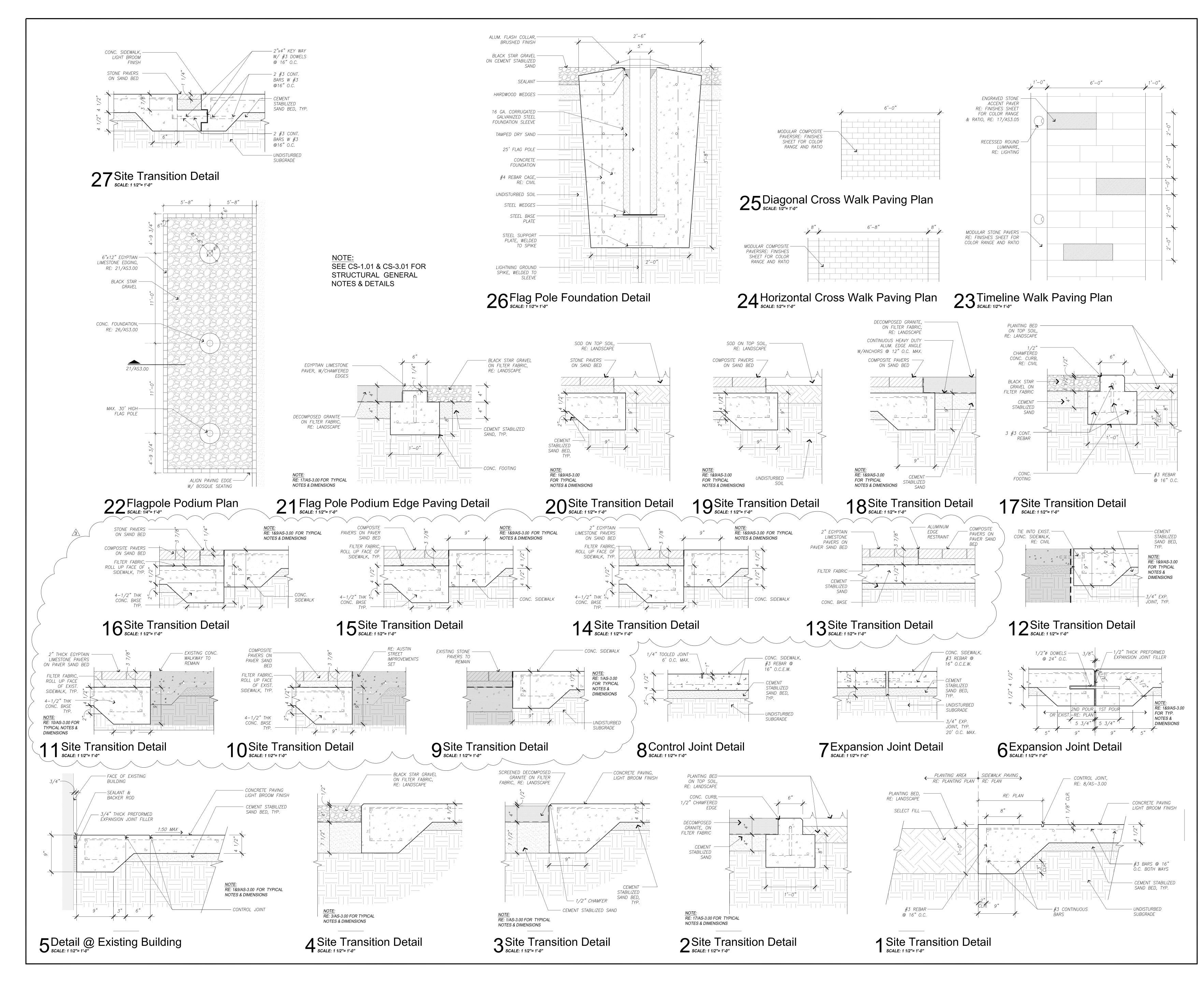
AE Response: There is crushed limestone at base of tree and decomposed granite around that. Please see Addendum 001 – LP -1.01.

2. Does the area across Holman Street require irrigation?

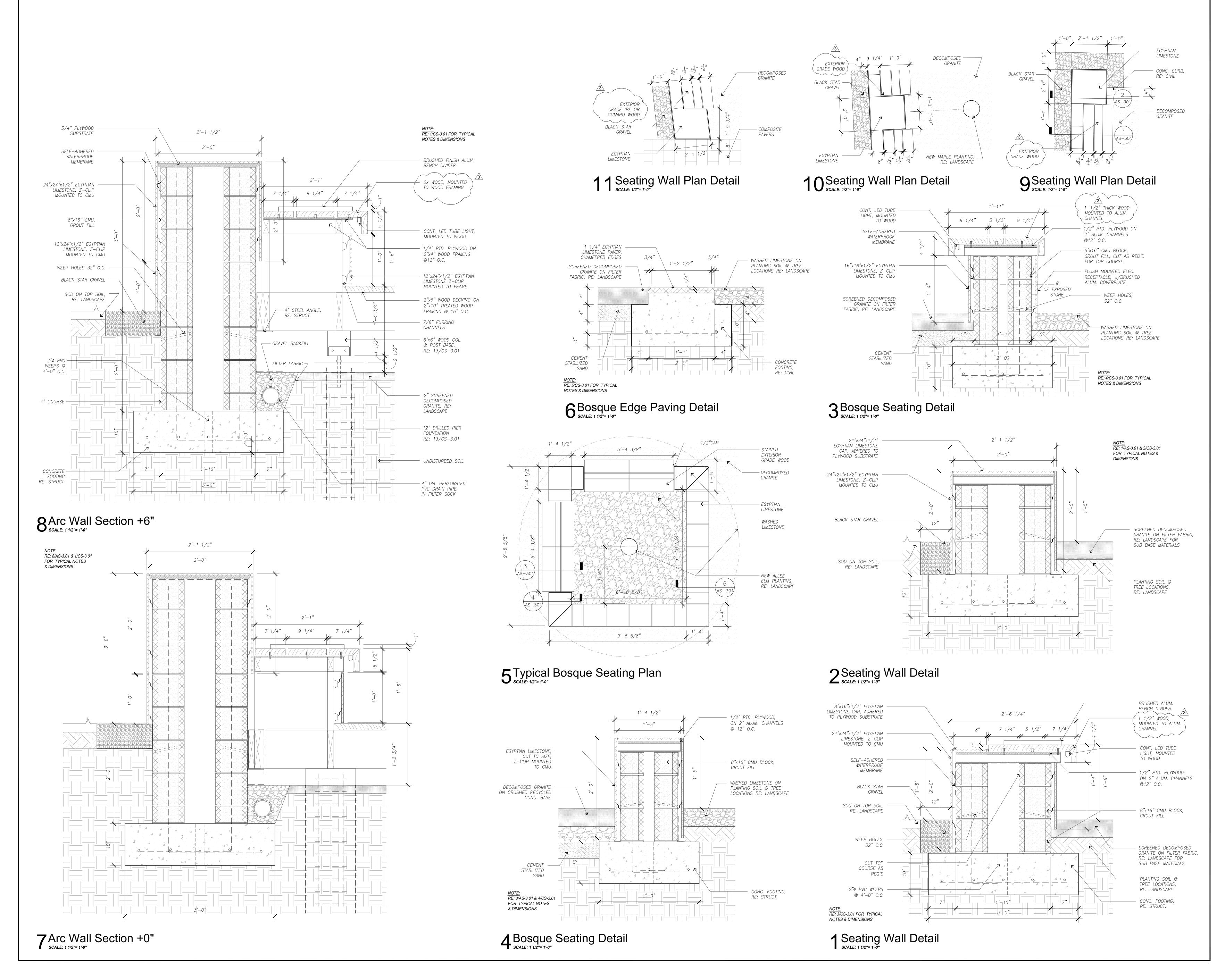
AE Response: (3) Trees within the courtyard across San Jac Plaza are to use Treegator bags for watering. Please reference spec 32 80 00.

3. Where is the existing irrigation controller located?

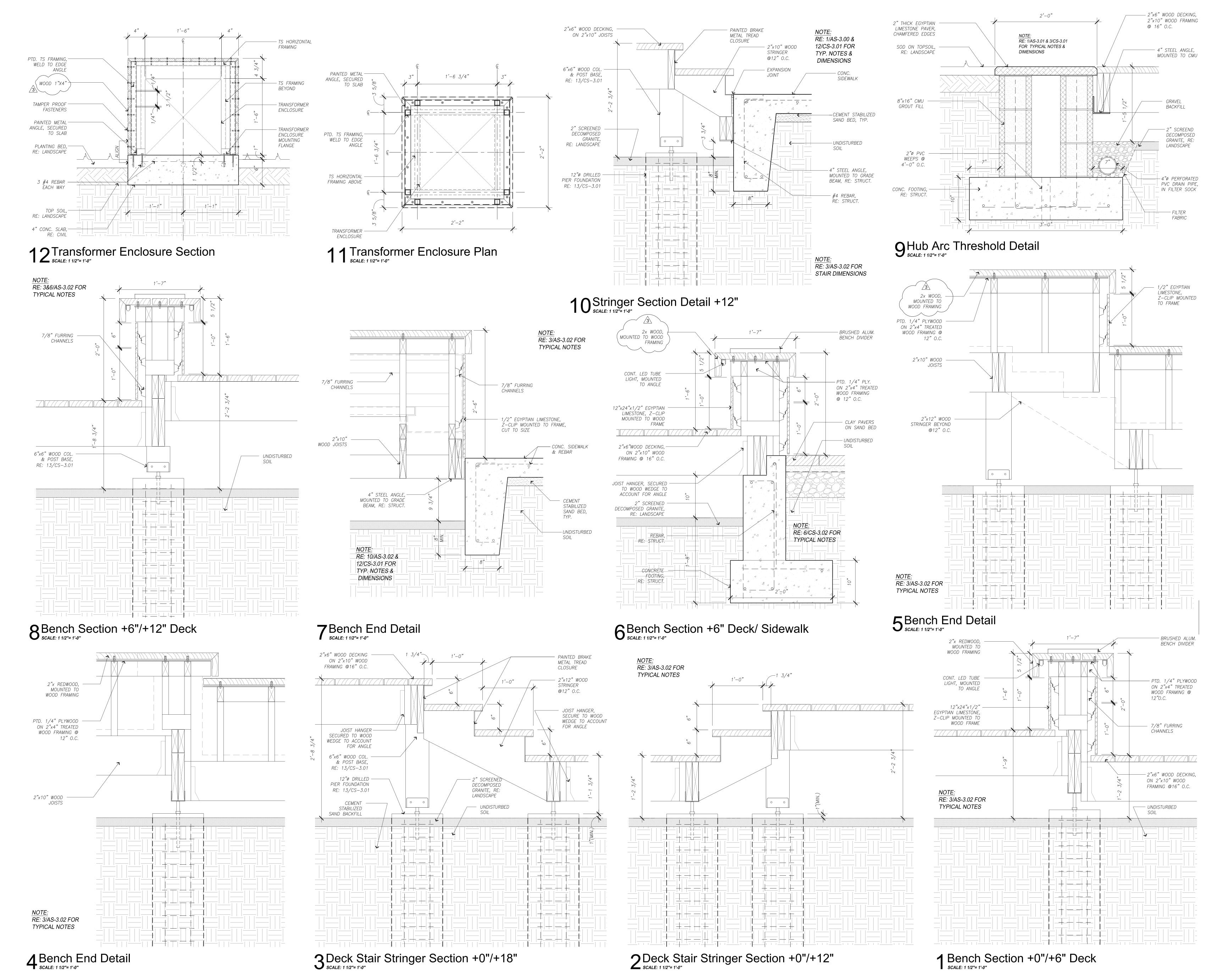
AE Response: Controller is provided under Austin Street Improvements Package. Please see Addendum 001 – LI -1.02.



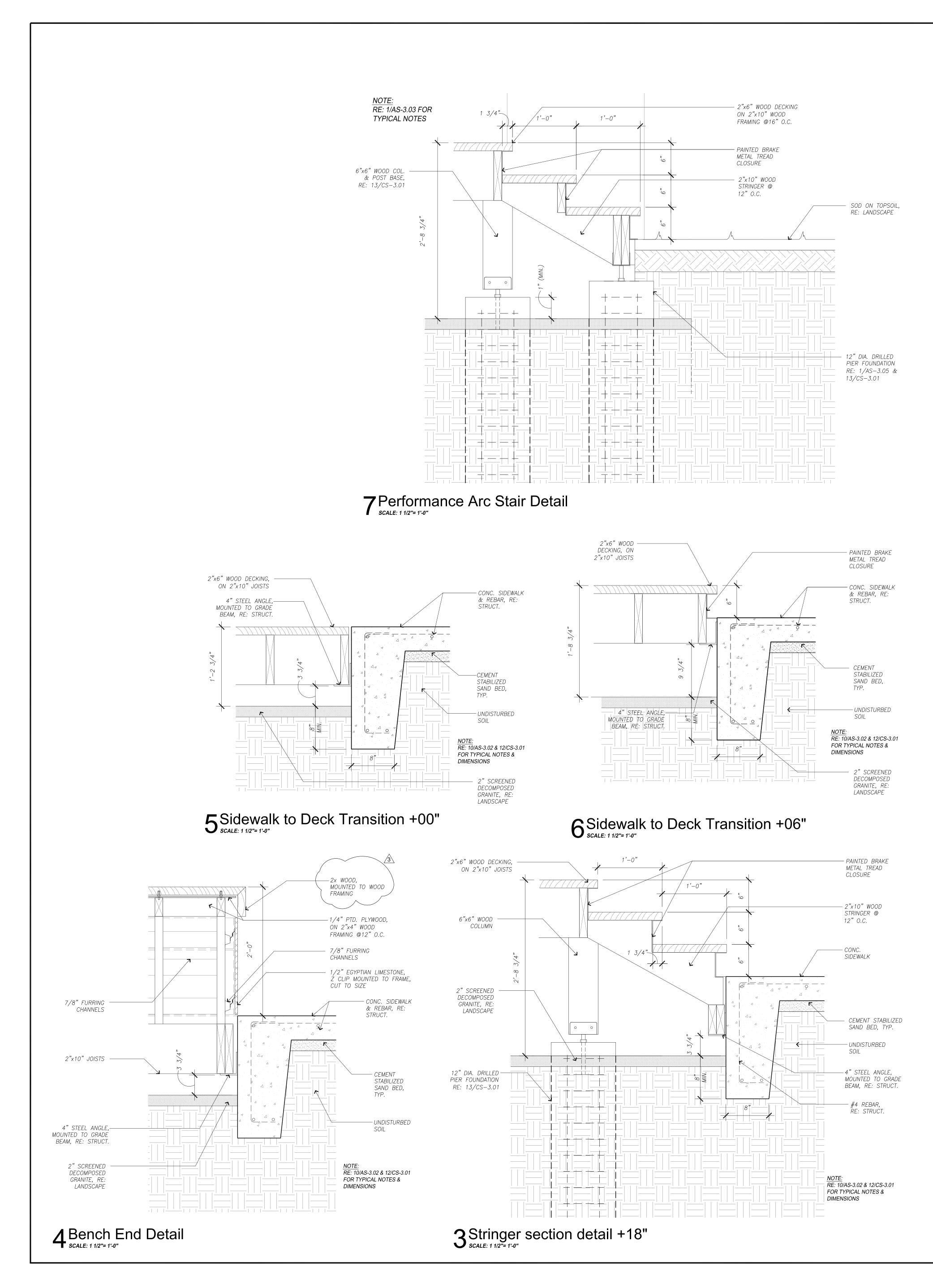


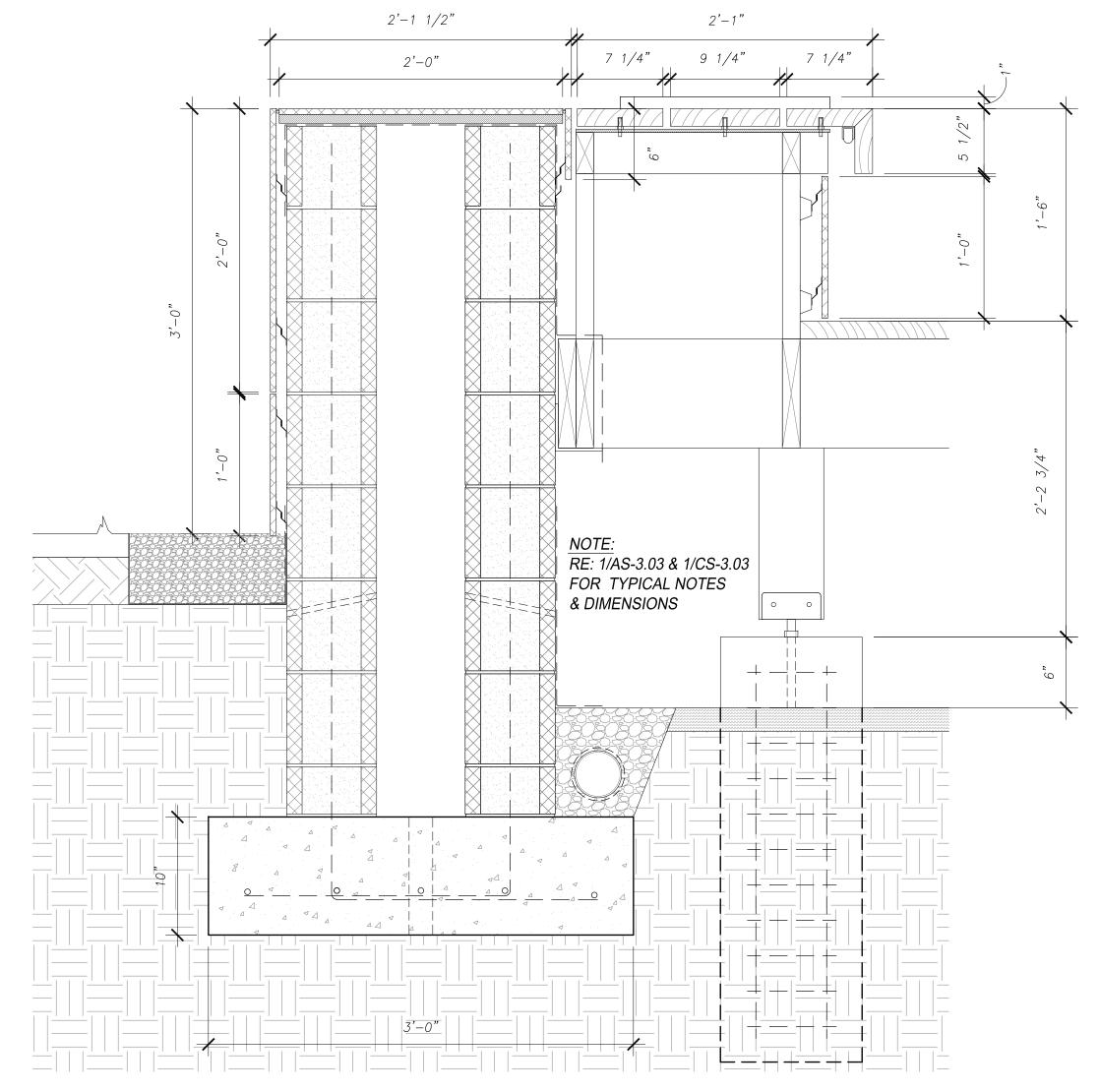




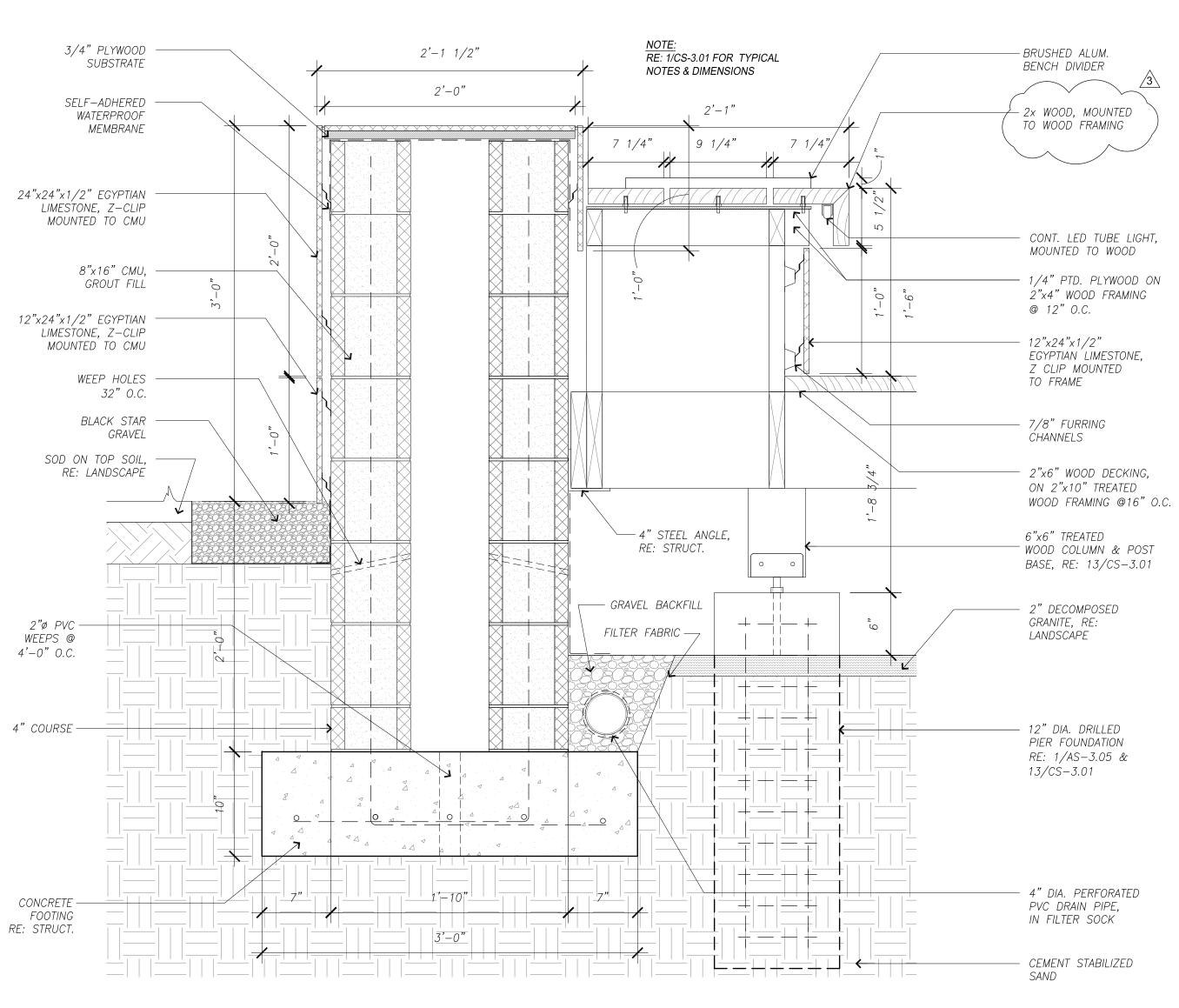






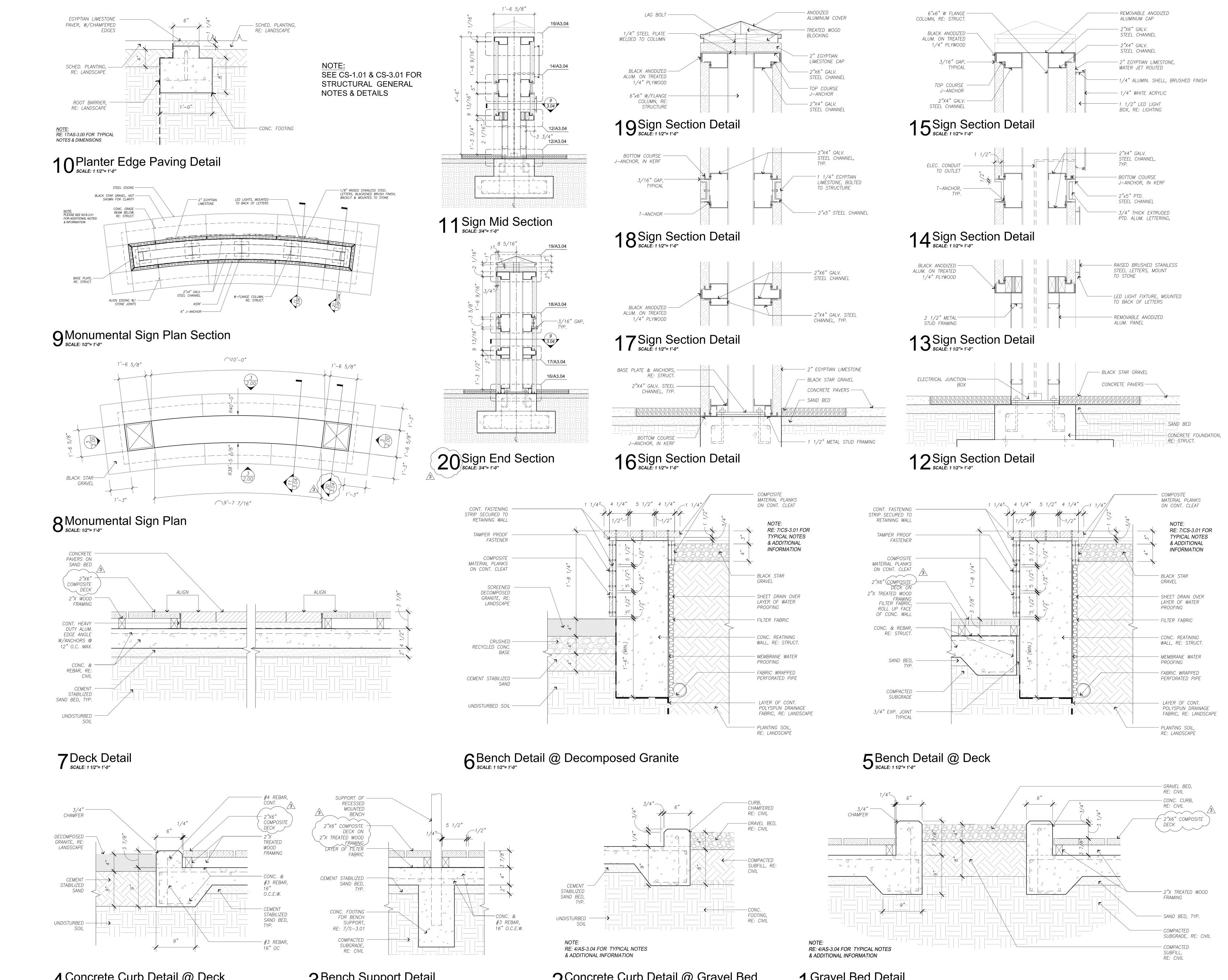


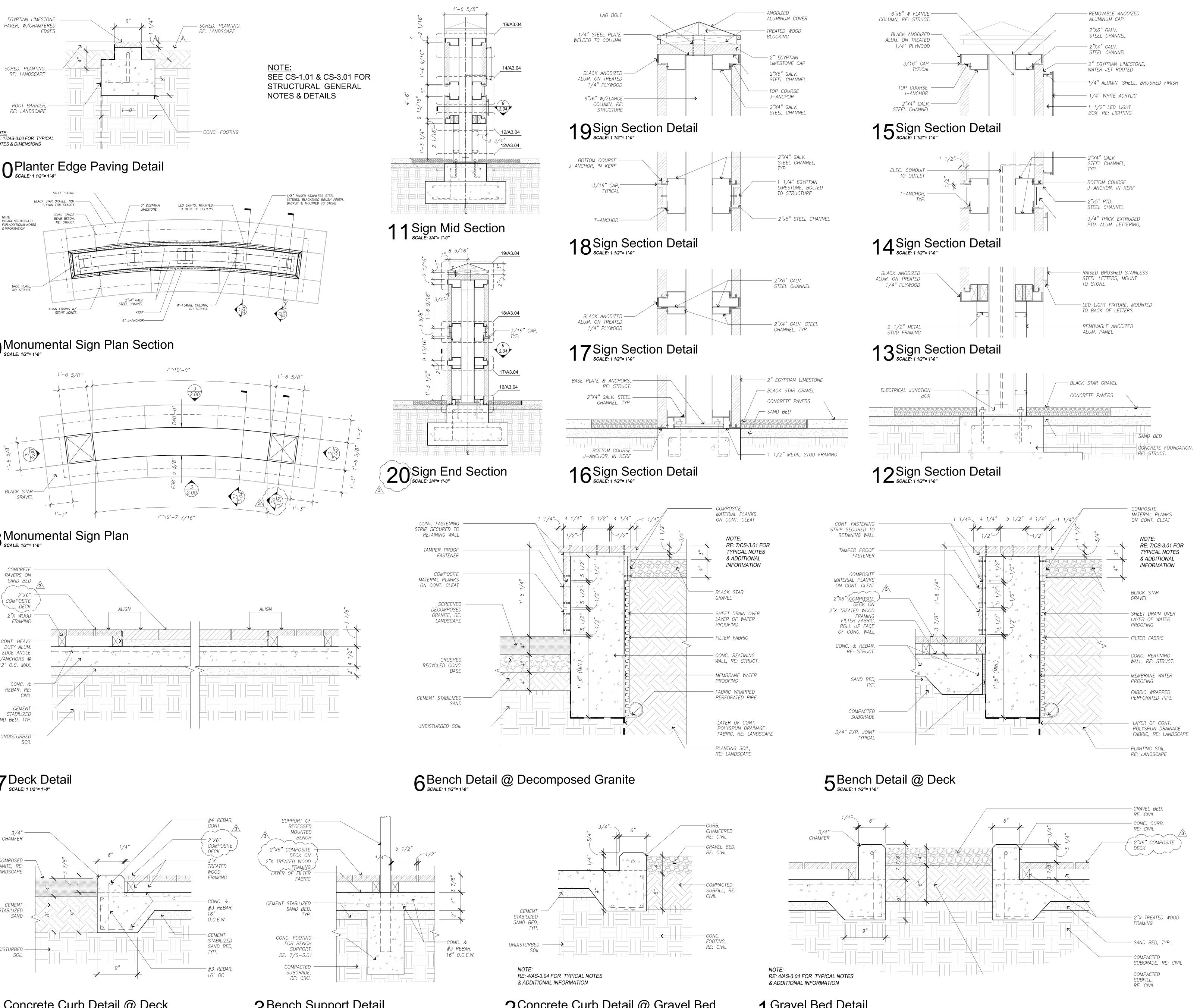


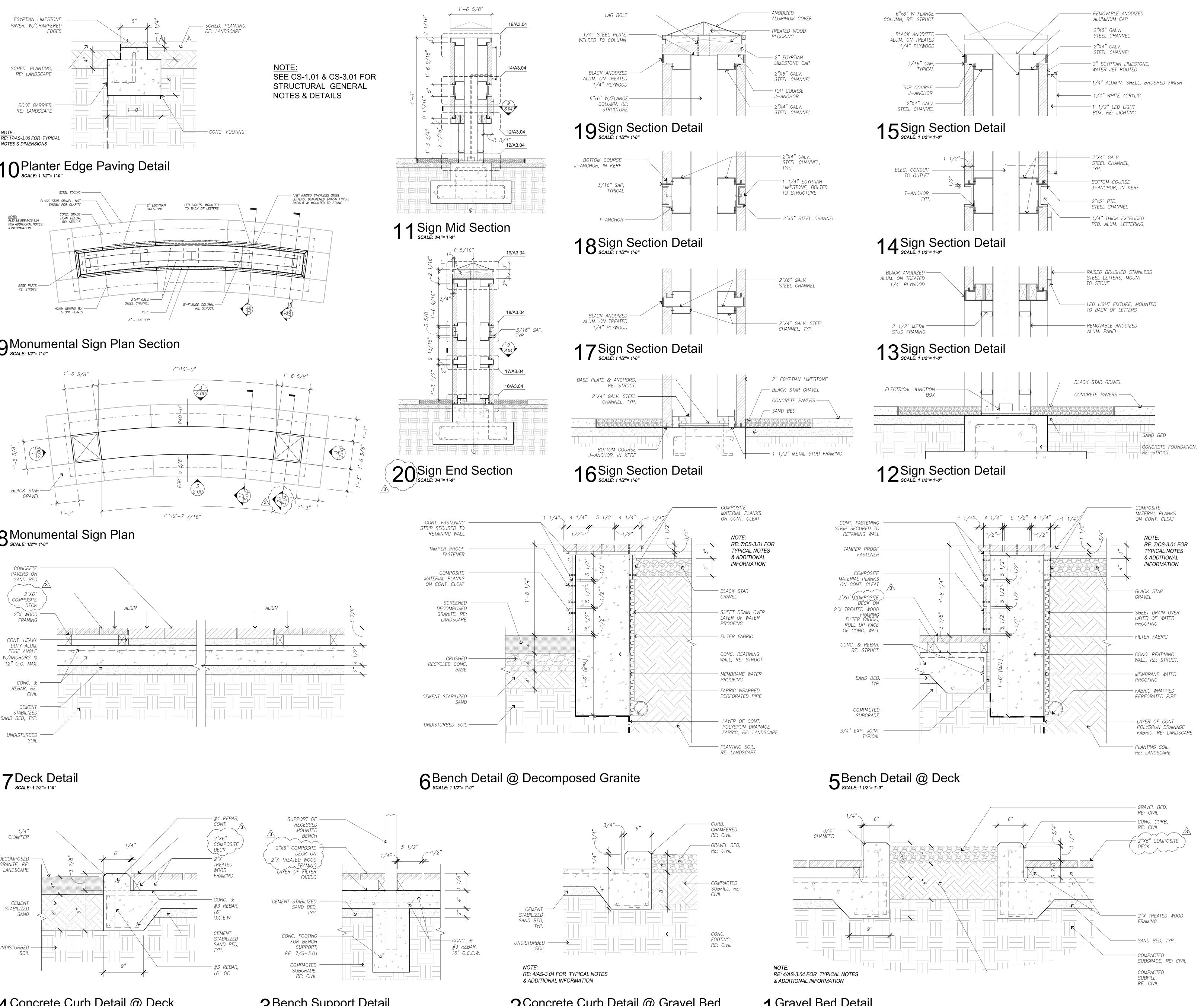


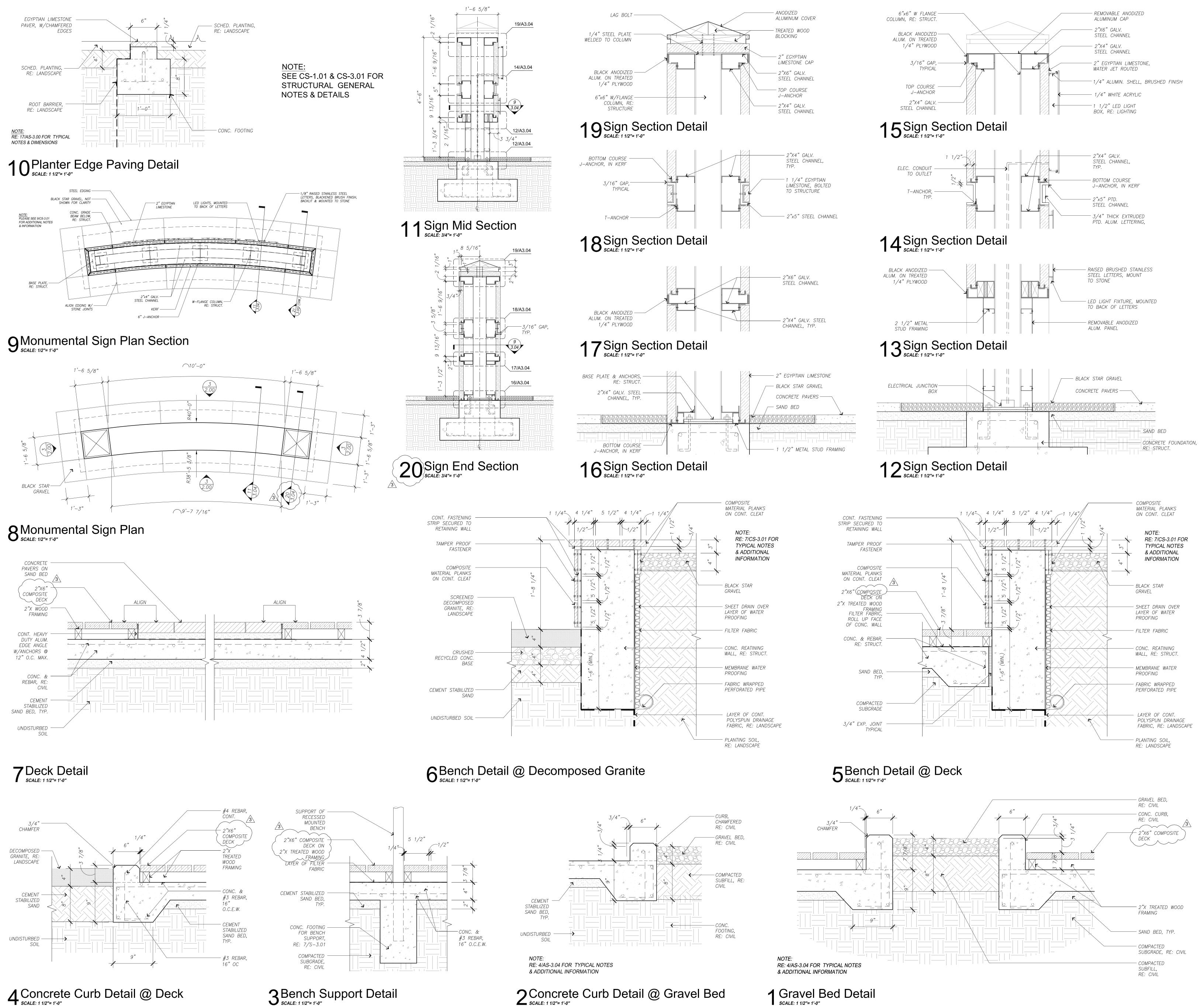
1 Arc Wall Section +12"

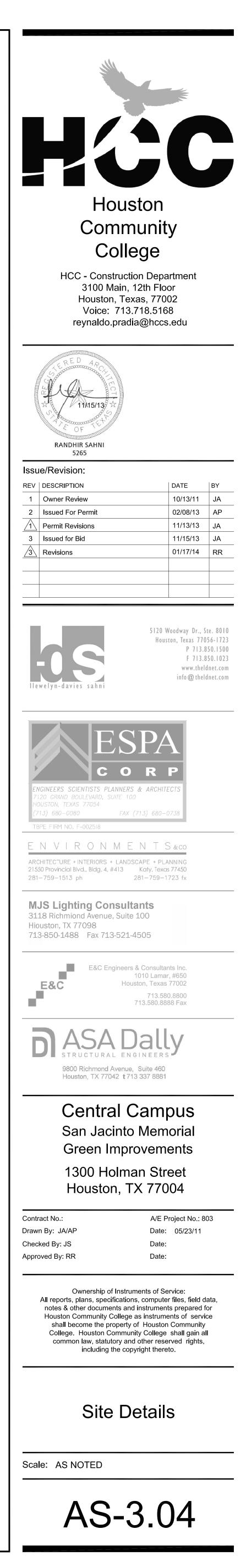


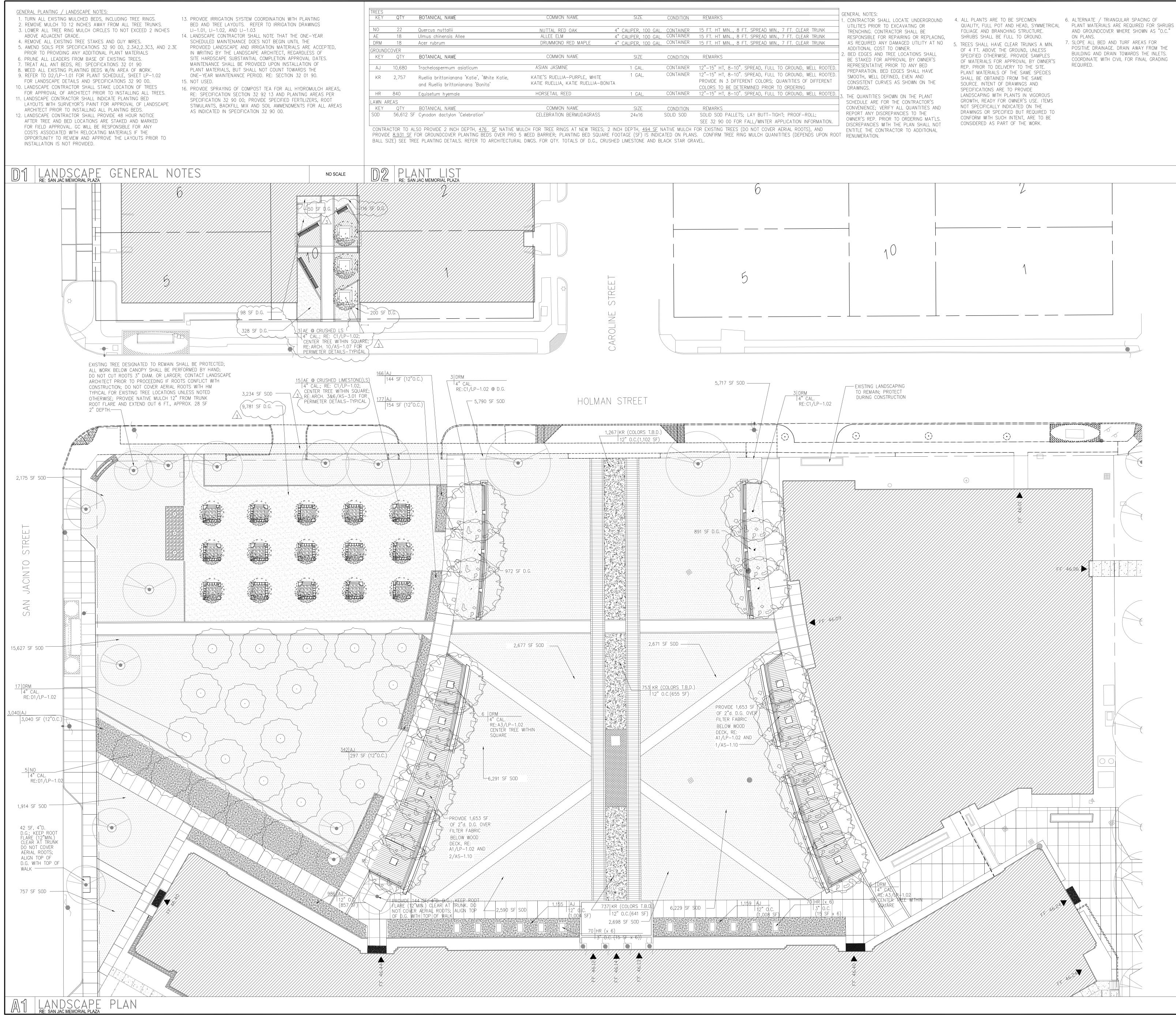






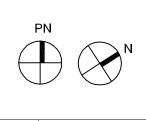






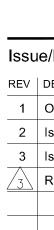
BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	REMARKS
Quercus nuttallii	NUTTAL RED OAK	4" CALIPER, 100 GAL.	CONTAINER	15 FT. HT MIN., 8 FT. SPREAD MIN., 7 FT. CLEAR TRUNK
Ulmus chinensis Allee	ALLEE ELM	4" CALIPER, 100 GAL.	CONTAINER	15 FT. HT MIN., 8 FT. SPREAD MIN., 7 FT. CLEAR TRUNK
Acer rubrum	DRUMMOND RED MAPLE	4" CALIPER, 100 GAL.	CONTAINER	15 FT. HT MIN, 8 FT. SPREAD MIN., 7 FT. CLEAR TRUNK
BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	REMARKS
Trachelospermum asiaticum	ASIAN JASMINE	1 GAL.	CONTAINER	12"-15" HT, 8-10". SPREAD, FULL TO GROUND, WELL ROOTED.
Ruellia brittonianana 'Katie', 'White Katie, and Ruellia brittonianana 'Bonita'	KATIE'S RUELLIA—PURPLE, WHITE KATIE RUELLIA, KATIE RUELLIA—BONIT/	1 GAL.	CONTAINER	12"-15" HT, 8-10". SPREAD, FULL TO GROUND, WELL ROOTED. PROVIDE IN 3 DIFFERENT COLORS; QUANTITIES OF DIFFERENT COLORS TO BE DETERMINED PRIOR TO ORDERING
Equisetum hyemale	HORSETAIL REED	1 GAL.	CONTAINER	12"-15" HT, 8-10". SPREAD, FULL TO GROUND, WELL ROOTED.
BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	REMARKS
SF Cynodon dactylon 'Celebration'	CELEBRATION BERMUDAGRASS	24x16	SOLID SOD	SOLID SOD PALLETS; LAY BUTT-TIGHT; PROOF-ROLL; SEE 32 90 00 FOR FALL/WINTER APPLICATION INFORMATION.

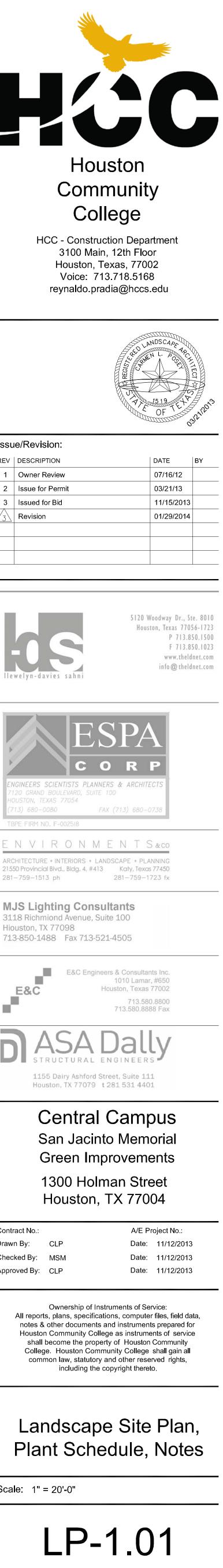
AND GROUNDCOVER WHERE SHOWN AS "O.C." 7. SLOPE ALL BED AND TURF AREAS FOR POSITIVE DRAINAGE. DRAIN AWAY FROM THE BUILDING AND DRAIN TOWARDS THE INLETS.





NO SCALE





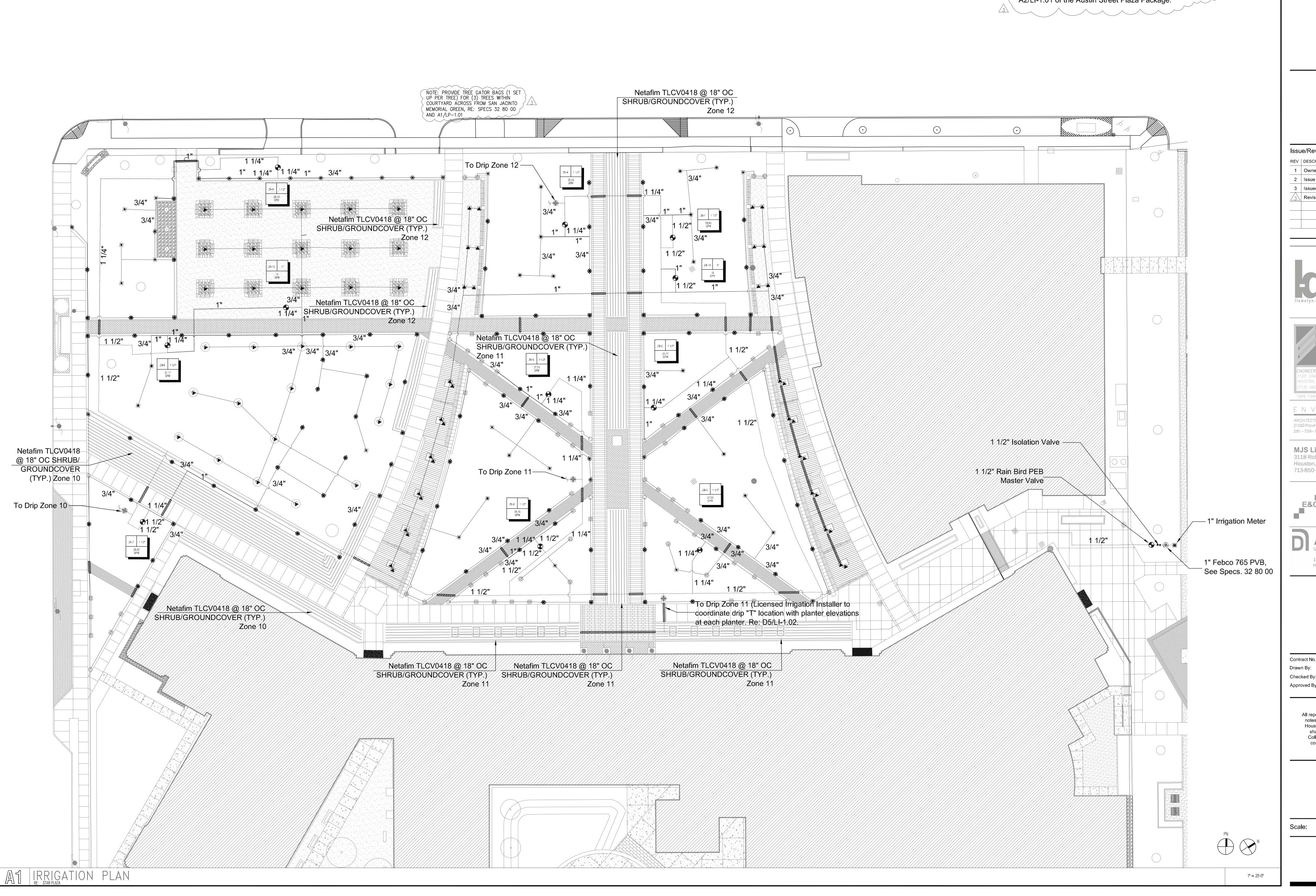


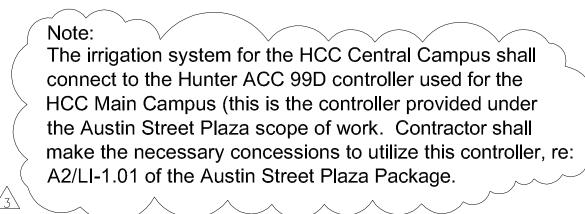




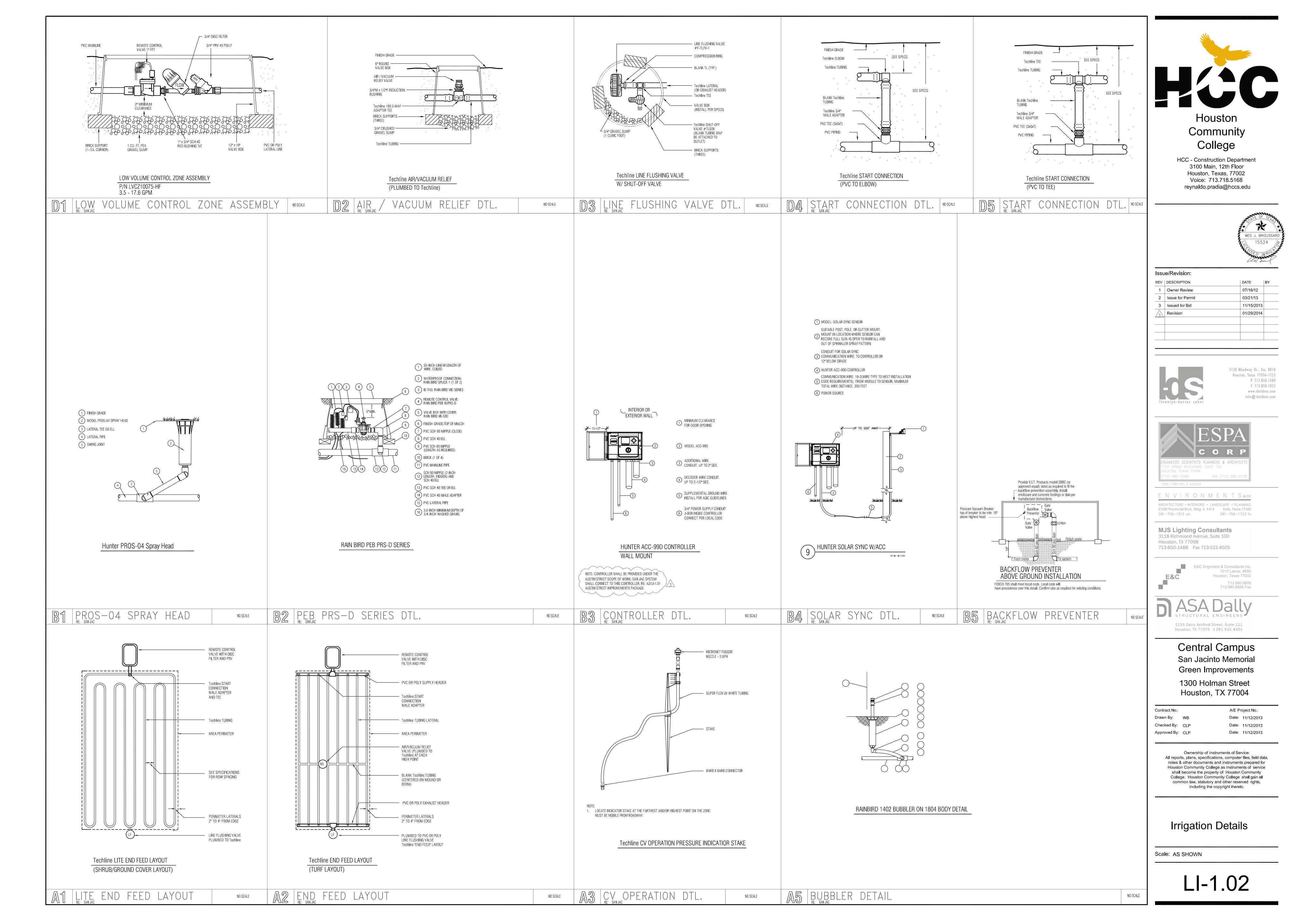


1" = 20'-0"









IRRIGATION GENERAL NOTES 1. ALL REQUIRED LANDSCAPE AREAS SHALL BE IRRIGATED PER APPLICABLE LOCAL ORDINANCES AND TCEQ REGULATIONS.	HYDRAULIC CALCULATIONS Run Set: 1-9
2. DRIP IRRIGATION SHALL BE PLACED 2" - 4" FROM EDGE OF PLANTING BED OR AS PER MANUFACTURER RECOMMENDATIONS.	Water Source 1 Description: HCC-Main
3. ANY QUANTITIES SHOWN ARE APPROXIMATE. VERIFY QUANTITIES AND PROVIDE ALL LABOR, MATERIALS, AND DEVICES NECESSARY TO COMPLETE THE IRRIGATION SYSTEM.	Type: Meter Static Pressure: 55 (psi) Service Line: 0.141 (psi)
4. THE LAYOUT SHOWN IS DIAGRAMMATIC. DO NOT PLACE LINES OR DEVICES NEAR TREE ROOT SYSTEMS OR IN PAVEMENT AREAS, OR AREAS THAT CONFLICT WITH PROPER INSTALLATION AND FUNCTION OF THE SYSTEM.	Meter Loss: 1.954 (psi) Mean System
5. SITE CONDITIONS:	Static Pressure: 55 (psi)
 a. VERIFY AND MARK THE LOCATION OF ALL ON-SITE UTILITIES REQUIRED BY THE IRRIGATION SYSTEM. b. VERIFY AND MARK THE LOCATION OF ALL BURIED CABLES, CONDUITS, PIPING, ETC. PRIOR TO TRENCHING OR DIGGING. Call (800) DIG-TESS per Texas Utilities Code Title 5 Chapter 251 UNDERGROUND FACILITY DAMAGE PREVENTION AND 	Service Line Loss: 0.141 (psi) Meter Loss: 1.954 (psi) Backflow Loss: 4.0 (psi) Master Valve Loss: 3.754 (psi) Filter Loss: 0 (psi)
SAFETY. c. ADJUST THE DESIGN AS NECESSARY, TOGETHER WITH THE LANDSCAPE ARCHITECT, LICENSED IRRIGATOR OR THEIR REPRESENTATIVE, TO SUIT SITE CONDITIONS, ELEVATIONS AND GRADES BEFORE PROCEEDING WITH WORK.	Zone 1-9 @ 18.77 (GPM) Mainline Loss: 7.75 (psi)
d. PROTECT FROM DAMAGE AS NECESSARY, EXISTING PROPERTY, EXISTING LANDSCAPE FEATURES, PLANT MATERIAL, STRUCTURES, THIS WORK IN PROGRESS, AND THE WORK OF OTHER TRADES.	Valve Loss: 3.75 (psi) Filter Loss: 0 (psi) Lateral Loss: 2.25 (psi)
5. PROVIDE CHRISTY (OR EQUIVALENT) PROFESSIONAL GRADE VALVE BOXES LARGE ENOUGH TO ACCOMMODATE VALVES AND OTHER DEVICES SHOWN IN THE DETAILS. BOX EXTENSIONS MAY BE REQUIRED. GROUND BOXES SHALL BE CONSTRUCTED OF MATERIALS SUFFUICIENT IN STRENGTH TO ACCEPT LOADS (PEDESTRIAN OR VEHICULAR) REQUIRED BASED ON ACTUAL INSTALLATION LOCATION.	Elevation: 0 (psi) Sprinkler Requirement: 30 (psi) Total Design Pressure: 53.62 (psi) Residual Pressure: 1.38 (psi)
7. PRESSURE REGULATING COMPONENT(S) SHALL BE REQUIRED WHERE STATIC PRESSURE	
EXCEEDS MANUFACTURER'S RECOMMENDED OPERATING RANGE.	
8. OBTAIN ALL PERMITS AND LICENSES APPLICABLE PRIOR TO THE START OF WORK. 9. SEE DETAILS FOR OTHER REQUIRED MATERIALS AND DEVICES.	
10. PIPING AND VALVES:	
a. MAINLINE IRRIGATION SYSTEM PIPING SHALL BE CLASS 200 PVC PIPE. LATERAL IRRIGATION SYSTEM PIPING SHALL BE CLASS 200 PVC PIPE.	
b. ALL PIPES AND ELECTRICAL BUNDLES PASSING BENEATH DRIVEWAYS OR PAVED AREAS MUST BE SLEEVED WITH PVC SCH 40 PVC PIPE WITH SOLVENT WELDED JOINTS. SLEEVE DIAMETER MUST FOLIAL TWICE THAT OF THE PIPE OR SIZED AS SHOWN ON	
AREAS MUST BE SLEEVED WITH PVC SCH 40 PVC PIPE WITH SOLVENT WELDED JOINTS. SLEEVE DIAMETER MUST EQUAL TWICE THAT OF THE PIPE OR SIZED AS SHOWN ON PLANS. 11. SEE DRIPPERLINE CALCULATIONS FOR DRIP IRRIGATION NOTES.	
AREAS MUST BE SLEEVED WITH PVC SCH 40 PVC PIPE WITH SOLVENT WELDED JOINTS. SLEEVE DIAMETER MUST EQUAL TWICE THAT OF THE PIPE OR SIZED AS SHOWN ON PLANS.	Zone Name: Zone 11 (Shrub)
AREAS MUST BE SLEEVED WITH PVC SCH 40 PVC PIPE WITH SOLVENT WELDED JOINTS. SLEEVE DIAMETER MUST EQUAL TWICE THAT OF THE PIPE OR SIZED AS SHOWN ON PLANS. 11. SEE DRIPPERLINE CALCULATIONS FOR DRIP IRRIGATION NOTES.	Zone Name: Zone 11 (Shrub) Netafim Recommendations Dripper Flow Rate: 0.4 GPH Dripper Spacing in Techline® CV: 18" Techline® CV Row (lateral) Spacing: 18" - 24" Application Rate (in/hr): 0.29 - 0.21
AREAS MUST BE SLEEVED WITH PVC SCH 40 PVC PIPE WITH SOLVENT WELDED JOINTS. SLEEVE DIAMETER MUST EQUAL TWICE THAT OF THE PIPE OR SIZED AS SHOWN ON PLANS. 11. SEE DRIPPERLINE CALCULATIONS FOR DRIP IRRIGATION NOTES. DRIPPERLINE CALCULATIONS Zone Name: Zone 10 (Shrub) Netafim Recommendations Dripper Flow Rate: 0.4 GPH Dripper Spacing in Techline® CV: 18" Techline® CV Row (lateral) Spacing: 18" - 24" Application Rate (in/hr): 0.29 - 0.21 Time to Apply 1/4" (minutes): 52 - 71 Your Selections	Netafim Recommendations Dripper Flow Rate: 0.4 GPH Dripper Spacing in Techline® CV: 18" Techline® CV Row (lateral) Spacing: 18" - 24" Application Rate (in/hr): 0.29 - 0.21 Time to Apply 1/4" (minutes): 52 - 71 Your Selections
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AREAS MUST BE SLEEVED WITH PVC SCH 40 PVC PIPE WITH SOLVENT WELDED JOINTS. SLEEVE DIAMETER MUST EQUAL TWICE THAT OF THE PIPE OR SIZED AS SHOWN ON PLANS. 11. SEE DRIPPERLINE CALCULATIONS FOR DRIP IRRIGATION NOTES. 2000 Name: Zone 10 (Shrub) Netafim Recommendations Dripper Flow Rate: 0.4 GPH Dripper Spacing in Techline® CV: 18 ^o Techline® CV Row (lateral) Spacing: 18 ^o 2000 Nater Spacing in Techline® CV: 18 ^o Techline® CV (lateral) Spacing: 18 ^o Calculated Results: Techline® CV (lateral) Spacing: 18 ^o Calculated Results: Techline® CV 2514 Total GPM of the Zone: 11.17	Netafim Recommendations Dripper Flow Rate: 0.4 GPH Dripper Spacing in Techline® CV: 18" Techline® CV Row (lateral) Spacing: 18" - 24" Application Rate (in/hr): 0.29 - 0.21 Time to Apply 1/4" (minutes): 52 - 71 Your Selections Dripper Flow Rate: 0.4 GPH Dripper Spacing in Techline® CV: 18" Techline® CV (lateral) Spacing: 18" Calculated Results: Techline® CV Part Number: TLCV4-18xx Feet of Techline® CV: 2151 Total GPM of the Zone: 9.56
AREAS MUST BE SLEEVED WITH PVC SCH 40 PVC PIPE WITH SOLVENT WELDED JOINTS. SLEEVE DIAMETER MUST EQUAL TWICE THAT OF THE PIPE OR SIZED AS SHOWN ON PLANS. 11. SEE DRIPPERLINE CALCULATIONS FOR DRIP IRRIGATION NOTES. DRIPPERLINE CALCULATIONS Zone Name: Zone 10 (Shrub) Netatim Recommendations Dripper Flow Rate: 0.4 GPH Dripper Spacing in Techline® CV: 18" Techline® CV Row (Ideral) Spacing: 15" - 24" Application Rate (In/th): 0.29 Calculated Results: Techline® CV Part Number: TLCV4-18x Feet of Techline® CV: 2514 Total GPM of the Zone: 11.17 Application Rate (in/th): 0.29	Netafim Recommendations Dripper Flow Rate: 0.4 GPH Dripper Spacing in Techline® CV: 18" Techline® CV Row (lateral) Spacing: 18" - 24" Application Rate (in/hr): 0.29 - 0.21 Time to Apply 1/4" (minutes): 52 - 71 Your Selections Dripper Flow Rate: 0.4 GPH Dripper Flow Rate: 0.4 GPH Dripper Spacing in Techline® CV: 18" Techline® CV (lateral) Spacing: 18" Calculated Results: Techline® CV Part Number: TLCV4-18xx Feet of Techline® CV: 2151 Total GPM of the Zone: 9.56 Application Rate (in/hr): 0.29
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AREAS MUST BE SLEEVED WITH PVC SCH 40 PVC PPE WITH SOLVENT WELDED JOINTS. SLEEVE DIAMPETER MUST EQUAL TWICE THAT OF THE PIPE OR SIZED AS SHOWN ON PLANS. 11. SEE DRIPPERLINE CALCULATIONS FOR DRIP IRRIGATION NOTES. 20ne Name: Zone 10 (Shub) Netafim Recommendations Dripper Flow Rate: 0.4 GPH Dripper Spacing in Techline& CV: 18º Techline& CV Row (lateral) Spacing: 18° – 24° Application Rate (in/th'): 0.29 – 0.21 Time to Apply 14/4 (minutes): 52 – 71 Your Selections Dripper Flow Rate: 0.4 GPH Dripper Spacing in Techline& CV: 18º Techline& CV (lateral) Spacing: 18° Calculated Results: Techline& CV Rest Number: TLCV4-180X Rumber of Drippers in the Zone: 11.17 Maximum Length of a Lateral in Feet: 1158 Number of Staples Required: 830 Part Number of Staples Required: 830 Part Number of Staples Required: 830 Part Number of Staples Required: 830	Netafim Recommendations Dripper Flow Rate: 0.4 GPH Dripper Spacing in Techline® CV: 18" Techline® CV Row (lateral) Spacing: 18" - 24" Application Rate (in/hr): 0.29 - 0.21 Time to Apply 1/4" (minutes): 52 - 71 Your Selections Dripper Flow Rate: 0.4 GPH Dripper Flow Rate: 0.4 GPH Dripper Spacing in Techline® CV: 18" Techline® CV (lateral) Spacing: 18" Calculated Results: Techline® CV Part Number: TLCV4-18xx Feet of Techline® CV: 2151 Total GPM of the Zone: 9.56 Application Rate (in/hr): 0.29 Time to Apply 1/4" (minutes): 53 minutes Number of Drippers in the Zone: 1435 Maximum Length of a Lateral in Feet: 1158 Number of Staples Required: 718 Part Number for the Staples is: TLS6
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WATER SOURCE INFORMATION HCC-Main

Water Meter InformationMeter Size:1 inch meterStatic Pressure:55Change in Elevation:0

Service Line InformationPipe Category:Type K CopperPipe Size:Type K Copper 1"Length:15Velocity:12

<u>Recommendations</u> Maximum Recommended Flow: 29.08 Available Working Pressure: 55

CONTRACTOR SHALL FIELD VERIFY AVAILABLE PRESSURE PRIOR TO DEVELOPING SHOP DRAWINGS

The irrigation system was designed to an assumed 55 psi available onsite. The contractor shall make the necessary adjustments to the design based upon the actual water pressure to comply with local ordinances and TCEQ regulations.

Individual Zone Data

Zone Assignment	1-1	1-2	1-3	1-4	1-5
WTF	100%	100%	100%	100%	100%
Area (sq ft)	6148.5	6797.03	6786.64	6011.86	8024.1
Original Flow (GPM)	28.85	24.77	27.53	26.53	27.53
WTF Flow (GPM)	28.85	24.77	27.53	26.53	27.53
Average Precip (in/hr)	0.4638	0.3975	0.4337	0.4693	0.4392
Zone Assignment	1-6	1-7	1-8	1-9	
WTF	100%	100%	100%	100%	
Area (sq ft)	7003.54	9895.22	8687.91	7856.64	
Original Flow (GPM)	28.76	28.42	27.17	28.43	
WTF Flow (GPM)	28.76	28.42	27.17	28.43	
Average Precip (in/hr)	0.4493	0.3451	0.364	0.3493	

Total Area Calculations

Area (sq ft)	59460.78	Mean Precip (in/hr)	0.4007	

	Zone Name: Zone 12 (Shrub)	Zone Name: Zone 13 (Shrub)
	Netafim Recommendations Dripper Flow Rate: 0.4 GPH Dripper Spacing in Techline® CV: 18" Techline® CV Row (lateral) Spacing: 18" - 24" Application Rate (in/hr): 0.29 - 0.21 Time to Apply 1/4" (minutes): 52 - 71 Your Selections Dripper Flow Rate: 0.4 GPH Dripper Spacing in Techline® CV: 18" Techline® CV (lateral) Spacing: 18"	Netafim Recommendations Dripper Flow Rate: 0.4 GPH Dripper Spacing in Techline® CV: 18" Techline® CV Row (lateral) Spacing: 18" - 24" Application Rate (in/hr): 0.29 - 0.21 Time to Apply 1/4" (minutes): 52 - 71 Your Selections Dripper Flow Rate: 0.4 GPH Dripper Spacing in Techline® CV: 18" Techline® CV (lateral) Spacing: 18"
	Calculated Results:	Calculated Results:
	Techline® CV Part Number: TLCV4-18xx	Techline® CV Part Number: TLCV4-18xx
	Feet of Techline® CV: 1302	Feet of Techline® CV: 1972
	Total GPM of the Zone: 5.79	Total GPM of the Zone: 8.76
	Application Rate (in/hr): 0.29	Application Rate (in/hr): 0.29
	Time to Apply 1/4" (minutes): 53 minutes	Time to Apply 1/4" (minutes): 53 minutes
	Number of Drippers in the Zone: 869	Number of Drippers in the Zone: 1315
	Maximum Length of a Lateral in Feet: 1158	Maximum Length of a Lateral in Feet: 1158
	Number of Staples Required: 435 Part Number for the Staples is: TLS6	Number of Staples Required: 658 Part Number for the Staples is: TLS6
	PROVIDE PRV: PRV075HF45V2K	PROVIDE PRV: PRV075HF45V2K
/075-120,	PROVIDE Filter (choose appropriate one for condition): DF075-120, DF075-140, DFV075-120, DFV075-140	PROVIDE Filter (choose appropriate one for condition): DF075-120, DF075-1 DFV075-140
e feature, use a additional flush	Number of Flush Valve(s): To maintain the integrity of the Techline® CV Check Valve feature, use a TLSOV or TLFIG8 in lieu of automatic line flushing valves Number of Flush Valves is based on flow. The piping layout you choose may require additional flush valves.	Number of Flush Valve(s): To maintain the integrity of the Techline® CV Che TLSOV or TLFIG8 in lieu of automatic line flushing valves Number of Flush Valves is based on flow. The piping layout you choose may valves.

Supply and Exhaust Header Pipe Sizing: 3/4" polyethylene or PVC

Supply and Exhaust Header Pipe Sizing: 1" polyethylene or 3/4" PVC

Irrigation Legend

Symbol	Description
	Hunter MP1000 180° - PROS-04
Ċ-	Hunter MP1000 90° - PROS-04
\bigcirc	Hunter MPCorner 45° - PROS-04
- []-	Hunter MP1000 360° - PROS-04
-@-	Hunter MP2000 135° - PROS-04
-0-	Hunter MP2000 180° - PROS-04
	Hunter MP2000 270° - PROS-04
	Hunter MP2000 360° - PROS-04
۵-	Hunter MP2000 90° - PROS-04
-@-	Hunter MP3000 180° - PROS-04
	Hunter MP3000 360° - PROS-04
۲	Hunter MP3000 90° - PROS-04
B	Febco 765 - 1" PVB
\bigoplus	Netafim High Flow Kit w/Control Valve
•	Rain Bird PEB
æ	Hunter ACC-99D, RE: B3/LI1.02 3
\mathbf{M}	Nibco 1 1/4" isolation valve
Δ	Hunter Solar Sync
M	1 inch meter
	Lateral - Class 200 sized per plan
	Mainline - Class 200 sized per plan
	TLCV4-18
	Schedule 40 Sleeving 4" Minimum

DRIP IRRIGATION NOTES

1. DRIPPERLINE ZONES WITH A FLOW GREATER THAN 17.6 GPM SHALL UTILIZE A 1 1/2" PRESSURE REGULATING VALVE. DRIPPERLINE ZONES WITH A FLOW EQUAL TO 17.6 GPM OR LESS SHALL BE AS NOTED ON THE PLANS OR ACCORDING TO MANUFACTURER SPECIFICATIONS.

 ALL DRIPPERLINE ZONES SHALL BE EQUIPPED WITH A NETAFIM DISC FILTER SYSTEM SIZED ACCORDING TO MANUFACTURER SPECIFICATIONS.
 DRIP ZONE 11 IS DEDICATED TO PLANTING AREAS IN FRONT OF MAIN BUILDING. LANDSCAPE

IRRIGATION INSTALLER TO ENSURE THAT DRIP TUBING IS COORDINATED WITH ELEVATIONS OF THE INDIVIDUAL PLANTING AREAS LOCATED WITHIN THE LARGER PLANTING AREA IN FRONT OF THE MAIN BUILDING.

5-140, DFV075-120,

Check Valve feature, use a

may require additional flush

