



Houston Community College System

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Chancellor

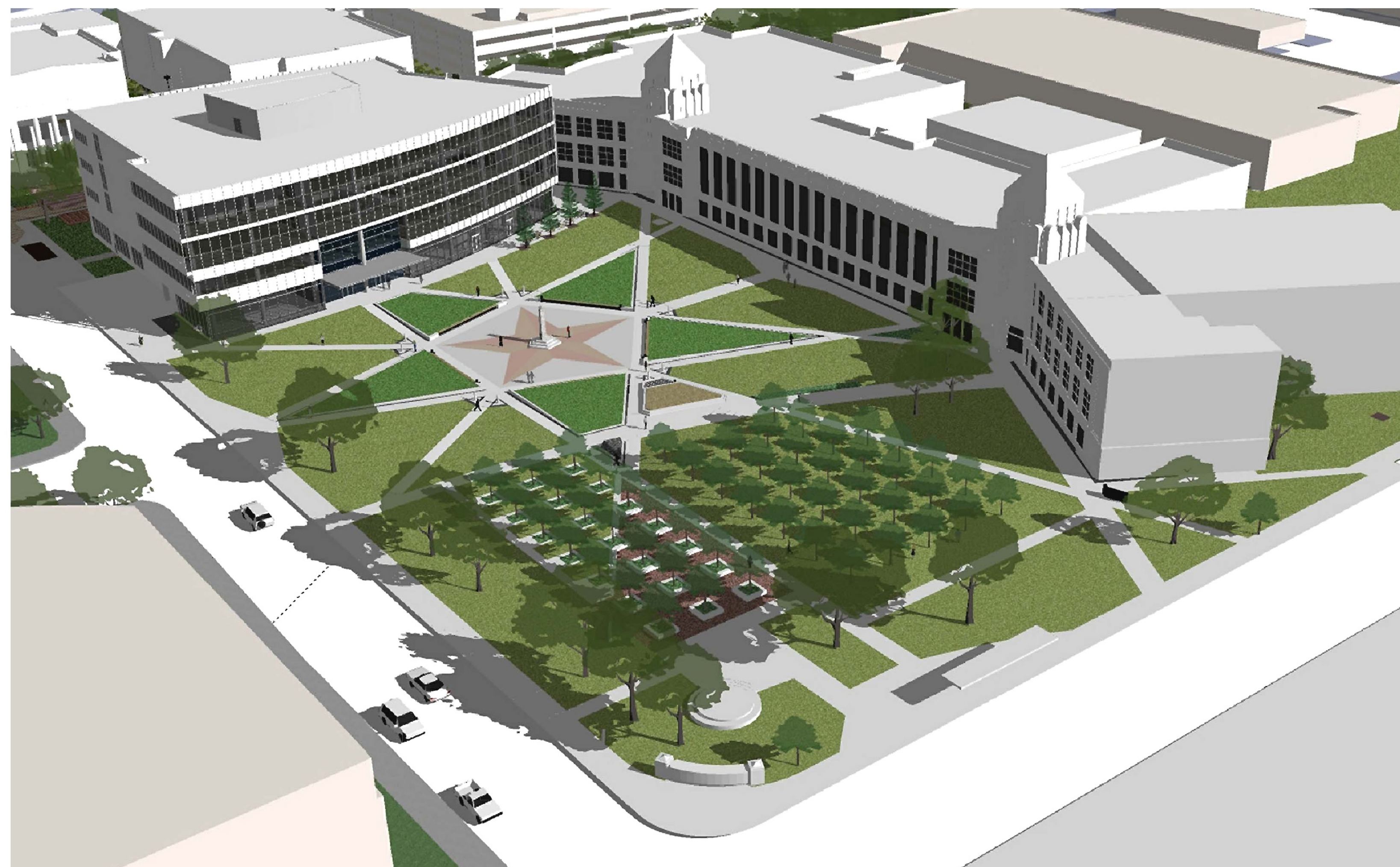
Dr. Mary Spangler

Central College President

Dr. William W. Harmon

Board of Trustees

Yolanda Navarro Flores
Mary Ann Perez
Dr. Michael P. Williams
Richard M. Schechter
Sandie Meyers
Neeta Sane
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Hilwelyn-davies sahani

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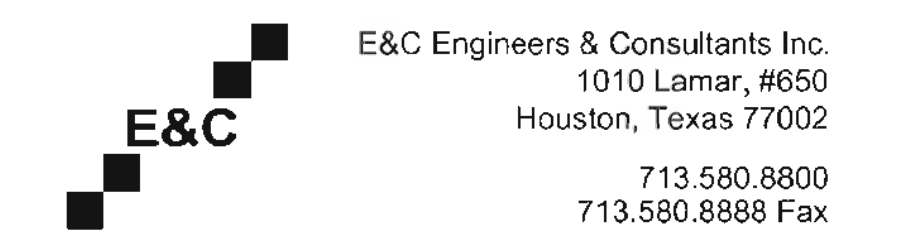


TBPE FIRM NO. F-002518

ENVIRONMENTS & CO

ARCHITECTURE • INTERIORS • LANDSCAPE • PLANNING
21550 Provincial Blvd., Bldg. 4, #413 Katy, Texas 77450
281-759-1513 ph 281-759-1723 fx

STUDIO OF RICHARD JETER MFA
LIGHTING DESIGNER
15903 PEBBLE BEND DR.
HOUSTON, TEXAS 77063



New Construction For:

Central Campus

1300 Holman Street
Houston, Texas 77004

Issued for Bid

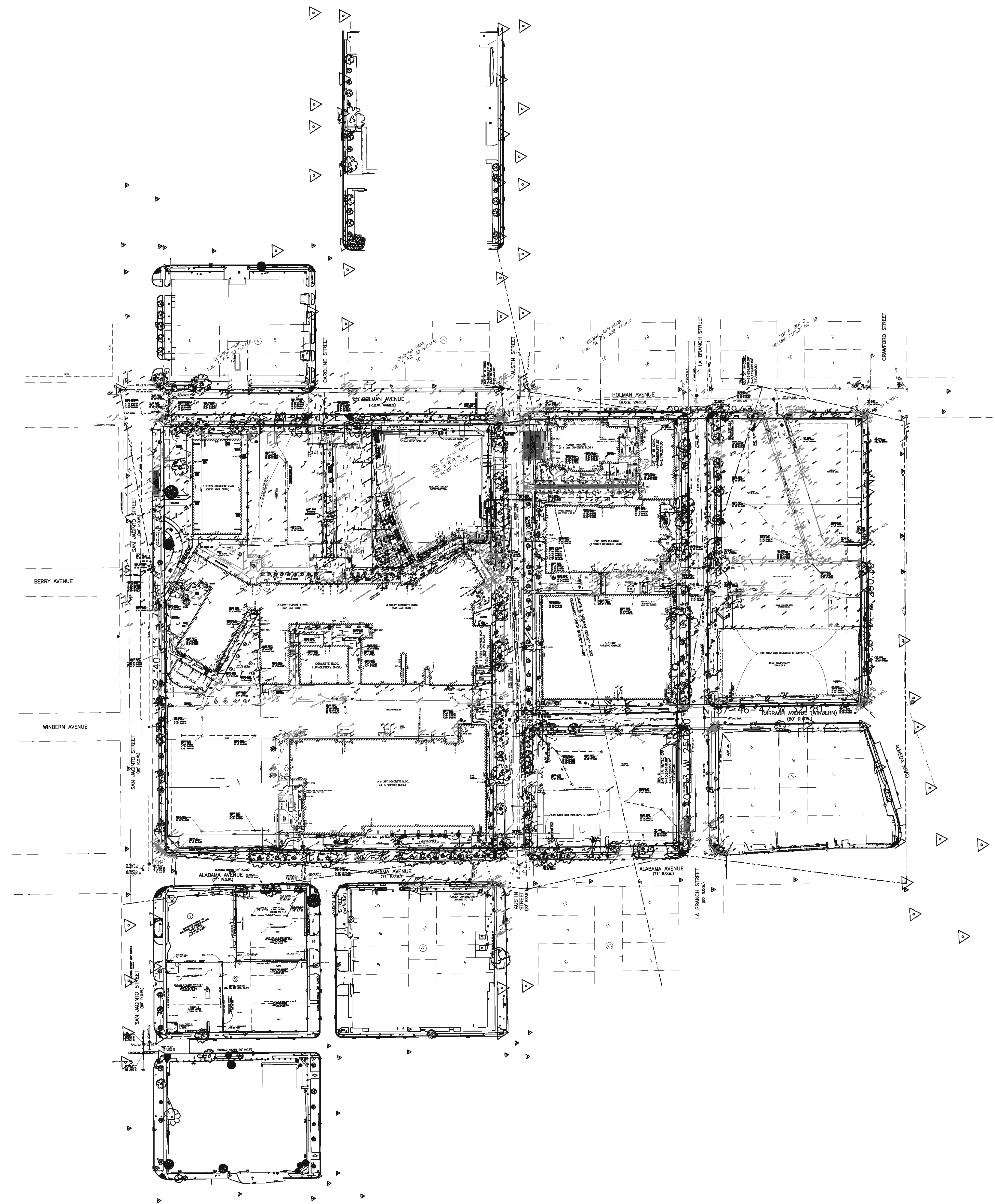
LDS Project Number: 724

May 9, 2011



Houston
Community
College

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Issue/Revision:

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR BID & CONSTRUCTION	05/08/11	JA

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TYPE F PER M.S. F-2003A-3

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**Central Campus
Parking Lot Improvements**
1300 Holman Street
Houston, TX 77004

Contract No.:	A/E Project No.:
Drawn By: XX	Date: XXX/XX/XX
Checked By:	Date:
Approved By:	Date:

Ownership of Instruments of Service:
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notes & other documents and instruments prepared for
Houston Community College as instruments of
service shall become the property of Houston Community
College. Houston Community College
shall gain all common law, statutory and other reserved
rights, including the copyright therein.

Survey

Scale: 1" = 80'-0"

S-001

A	ABV ABOVE AFB ABOVE FINISHED FLOOR AD ACCESS DOOR ACOUST ACOUSTIC / ACOUSTICAL ADJ ADJUSTABLE AG AGGREGATE ALT ALTERNATE ALUM ALUMINUM ANCH ANCHOR A.B. ANCHOR BOLT ANDD ANODIZED APPROX APPROXIMATELY ARCH ARCHITECT ASPH ASPHALT ASSY ASSEMBLY ASS'T ASSISTANT	F	FAB FABRICATE FB FACE FAS FASTEN FGL FIBER GLASS FIN FINISH FF FINISH FLOOR FE FIRE EXTINGUISHER FEC FIRE EXTINGUISHER CABINET FHC FIRE HOSE CABINET FHR FIRE HOSE RACK FPRF FIRE PROOFING FLG FLASHING FLR FLOOR FD FLOOR DRAIN FL MTD. FLOOR MOUNTED F/F FLOOR TO FLOOR FL FLOW LINE FT FOOT FTG FOOTING FDN FOUNDATION FRP FIBERGLASS REINF. PLASTIC FURN FURNITURE MULL MULLION FUT FUTURE	M	M H MAN HOLE MFR MANUFACTURER MFG MANUFACTURE(R)(NG) MRB MARBLE MAS MASONRY MO MASONRY OPENING MATL MATERIAL MAX MAXIMUM MECH MECHANICAL M C MEDICINE CABINET MEMB MEMBRANE MIL METAL MIL DK METAL DECK MIL L METAL LATH M METER MEZZ MEZZANINE MM MILLIMETER MLWK MILLWORK MIN MINIMUM MR MIRROR MISC MISCELLANEOUS MOD MODULE MLDG MOULDING MTG MOUNTING MULL MULLION MOP MOP SINK	S	SAF GL SAFETY GLASS SN SANITARY NAPKIN DISPENSER SND SANITARY NAPKIN DISPOSAL SCHED SCHEDULE SLNT SEALANT SMLS SEAMLESS SEC SECRETARY SECTION SECT SECTION SEP SEPARATE SERV SERVICE SS SERVICE SINK SHTG SHEATHING SH SHEET SHWR SHOWER SIM SIMILAR SP SOAP DISPENSER SC SOLID CORE SPL BLK SPLASH BLOCK SQ SQUARE SQUARE FOOT S STL STAINLESS STEEL STRAIGHT STD STANDARD STL STEEL SD STORM DRAIN STRUC STRUCTURAL SURF SURFACE SUSP SUSPEND SYM SYMMETRICAL
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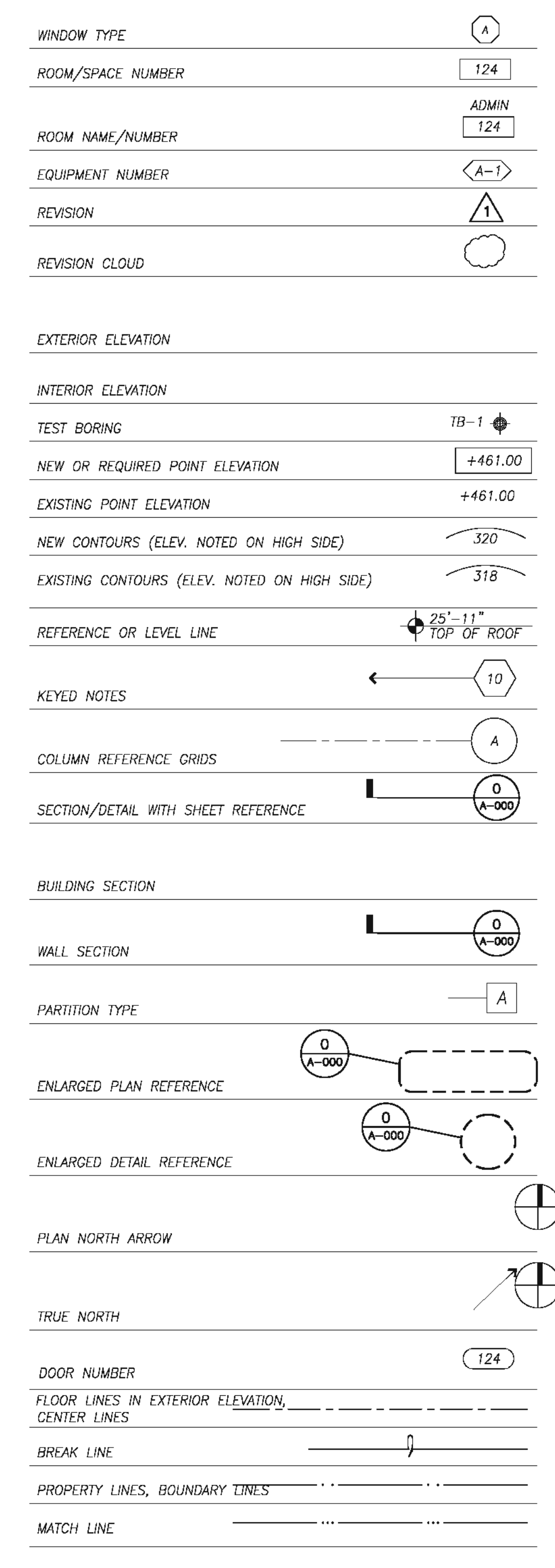
B	BSMT BASEMENT BM BEAM # M BENCH MARK BTWN BETWEEN BIT BIT BLK BLOCK BLKG BLOCKING BD BOARD BOT BOTTOM BRK BRICK BLDG BUILDING B.U.R. BUILT-UP ROOFING B.B. BULLETIN BOARD	G	GAL GALLON CALV GALVANIZED CI GALVANIZED IRON GA GAUGE GL GLASS GCMU GLAZED MASONRY UNIT CSFT GLAZED STRUCTURAL FACING TILE GB GRAB BAR GR GRADE GRAN GRANITE GYP. BD. GYPSUM BOARD CYP PLAS GYPSUM PLASTER	N	NAT NATURAL NOM NOMINAL NIC NOT IN CONTRACT NTS NOT TO SCALE NO OR # NUMBER	T	TKBD TACKBOARD TEL TELEPHONE TEMP TEMPERED TC TERRA COTTA TERR TERRAZZO THK THICK THD THREAD THRESH THRESHOLD T ACC TOILET ACCESSORY TP TOILET PAPER DISPENSER TOC TOP OF CURB TOM TOP OF MASONRY TOSL TOP OF SLAB T O STL TOP OF STEEL TOW TOP OF WALL TB TOWEL BAR TRAV TRAVERTINE T TREAD TYP TYPICAL TLT TOILET
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C	CAB CABINET CARPET CIP CAST-IN PLACE CI CAST IRON CB CATCH BASIN CLG CEILING CEM CEMENT CTR CENTER CTR CENTER LINE CER CERAMIC CT CERAMIC TILE CKBD CHALKBOARD CLR CLEAR CLO CLOSET CH CHALK COL COLUMN CONC CONCRETE CMU CONCRETE MASONRY UNIT CONST CONSTRUCTION CJ CONTROL JOINT CONT CONTINUOUS CORR CORRIDOR CG CORNER GUARD CSK COUNTERSUNK CF OR CUFT CUBIC FOOT	H	HDW HARDWARE HWD HARDWOOD HD HEAD HDR HEADER HT OR H HEIGHT H PT HIGH POINT HC HOLLOW CORE HM HOLLOW METAL HORIZ HORIZONTAL HB HOSE BIBB HR HOUR HSTWY HOISTWAY	O	OC ON CENTER OPNG OPENING OPP OPPOSITE OH OPPOSITE HAND OFC OUTSIDE FACE OF CONCRETE OD OUTSIDE DIAMETER OHVD OVERHEAD OZ OUNCE OXY OXYGEN O/A OVERALL	P	PT PAINTED, PAINT PR PAIR PNT PAINT PNL PANEL PTD PAPER TOWEL DISPENSER PART BD PARTIAL BOARD PART PARTITION PC PIECE PLAS PLASTER PL PLASTIC PL LAM PLASTIC LAMINATE PLT PLATE PW / WOOD PLY / PLYWOOD PNT POINT POL POLISHED POUN POUND PVC POLYVINYL CHLORIDE PC PLAS PORTLAND CEMENT PLASTER PRECAST PROJ PROJECTION PROP LINE PROPERTY LINE PSI POUNDS PER SQUARE INCH
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D	DP DAMPROOFING DEMO DEMOLISH DET DETAIL DIA DIAMETER DIAG DIAGONAL DIM DIMENSION DIR BD DIRECTORY BOARD D C DISPLAY CASE DR DOOR DN DOWN DS DOWNSPOUT DWC DRAWING DF DRINKING FOUNTAIN DW DRYWALL D DEPTH	J	JAN JANITOR JT JOINT JST JOIST	Q	QTY QUANTITY QT QUARRY TILE	V	VAC VACUUM VB VAPOR BARRIER VAR VARIES VENT VENTILATOR VERT VERTICAL VEST VESTIBULE VVC VINYL WALL COVERING VCT VINYL COMPOSITION TILE VNR VENEER V JT V JOINT VOL VOLUME
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E	EA EACH ELAS ELASTIC ELEC ELECTRIC EDF ELECTRIC DRINKING FOUNTAIN EHD ELECTRIC HAND DRYER EWC ELECTRIC WATER COOLER EL ELEVATION ELEV ELEVATOR ENCL ENCLOSURE EO EQUAL EQUI EQUIPMENT EXH EXHAUST EXIST EXISTING EXP EXPANSION EXP ANCH EXPANSION ANCHOR EXP BLT EXPANSION BOLT EXP JT EXPANSION JOINT EJ EXT EXTERIOR	K	K PL KICK PLATE KO KNOCKOUT KW KILOWATT	R	RAB RABBIT RAD RADIUS RECT RECTANGLE REF, REF REFER, REFERENCE REFL REFLECTED REFR REFRIGERATOR REINF REINFORCE REQ'D REQUIRED RES RESILIENT R.A. RETURN AIR REV REVISE ROW RIGHT OF WAY R RISER RD ROOF DRAIN RFC ROOFING RM ROOM RO ROUGH OPENING RUB RUBBER	W	WTW WALL TO WALL WH WALL HUNG WC WATER CLOSET WH WATER HEATER WP WATER PROOFING WPD WINDOW WPF WELDED WIRE FABRIC WD WOOD WPIPT WORK POINT WI WROUGHT IRON W/O WITHOUT W/ WITH W WIDTH OR WIDE WR WASTE RECEPTACLE
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L	LBL LABEL LB LAG BOLT LAM LAMINATE LAV LAVATORY LT LIGHT LT WT LIGHT WEIGHT LW LIGHT WEIGHT CONCRETE LMS LIMESTONE LF LINEAR FEET LNTL LINTEL LG LONG LVR LOUVER L LENGTH	Y	YD YARD
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PROJECT SUMMARY:

15 DRAWING SUMMARY
Scale: N.T.S.

LOCATION:
HCC - CENTRAL CAMPUS
1300 HOLMAN STREET
HOUSTON, TX 77004

OWNER ADDRESS:
3100 MAIN ST., 12TH FLOOR
HOUSTON, TX 77002
713.718.5168

PARKING:
REFER TO MAIN BUILDING CERTIFICATE OF OCCUPANCY

CODE:
2003 INTERNATIONAL BUILDING CODE

COVER SHEET

SURVEY
S-001 SURVEY
1-1.00 GENERAL INFORMATION

CIVIL
C-1.0 GENERAL NOTES
C-2.0 LEGENDS / ABBREVIATIONS
C-3.0 TOPOGRAPHIC SURVEY
C-4.0 DEMOLITION SITE PLAN
C-5.0 CONSTRUCTION SEQUENCING PLAN
C-6.0 CIVIL SITE PLAN
C-7.0 CIVIL GRADING PLAN
C-8.0 HORIZONTAL CONTROL
C-9.0 DRAINAGE AREA MAP
C-10.0 STORM SEWER LAYOUT
C-11.0 SWPP
C-12.0 MISCELLANEOUS DETAILS
C-13.0 SWPP DETAILS
C-14.0 GENERAL NOTES TCP
C-15.0 HOLMAN AVENUE TCP
C-16.0 CRAWFORD AVENUE TCP
C-17.0 WINGBER AVENUE TCP

STRUCTURAL
S-1.00 SITE STRUCTURAL DETAILS

ARCHITECTURAL
AS-0.10 EXISTING SITE PLAN
AS-1.00 SITE DEVELOPMENT PLAN
AS-1.01 SITE DEMOLITION PLAN
AS-1.02 ARCHITECTURAL SITE PLAN
AS-1.03 ARCHITECTURAL LIGHTING PLAN
AS-1.04 ENLARGED SITE PLAN
AS-1.05 ENLARGED SITE PLAN
AS-1.06 ENLARGED SITE PLAN
AS-1.20 DETAIL PLANS
AS-1.21 DETAIL PLANS
AS-1.22 DETAIL PLANS
AS-6.00 SOIL AMENDMENT & TREE PROTECTION PLAN
AS-6.01 SITE DETAILS
AS-6.02 SITE DETAILS

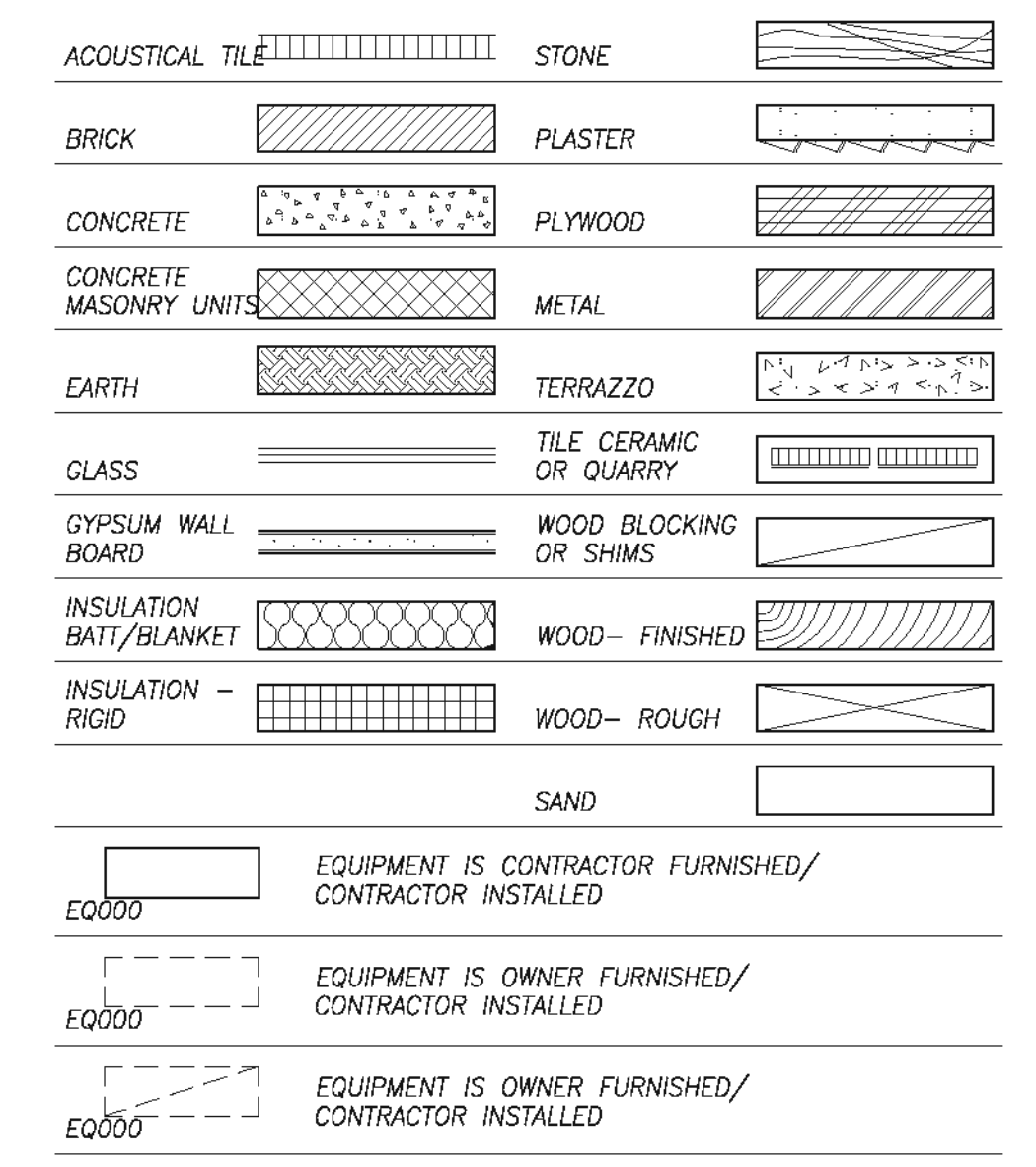
ELECTRICAL
SE-000 ELEC. SYMBOLS / ABBREVIATIONS
SE-100 ELEC. DEMOLITION PLAN
SE-200 ELEC. ALTERATION SITE PLAN
SE-300 ELEC. SCHEDULES
SE-301 ELEC. DETAILS

LANDSCAPE
L100 LANDSCAPE PLAN & DETAILS
L101 IRRIGATION PLAN & DETAILS

8 DRAWING INDEX
Scale: N.T.S.

GENERAL NOTES:
1. GENERAL NOTE.

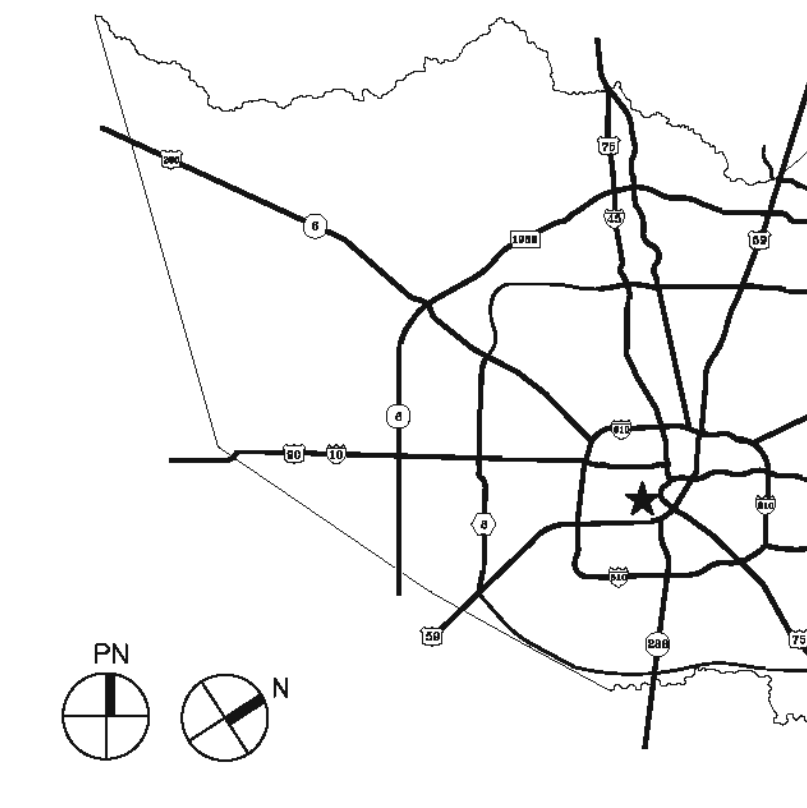
18 ANNOTATIONS
Scale: N.T.S.



13 CODE SUMMARY
Scale: N.T.S.

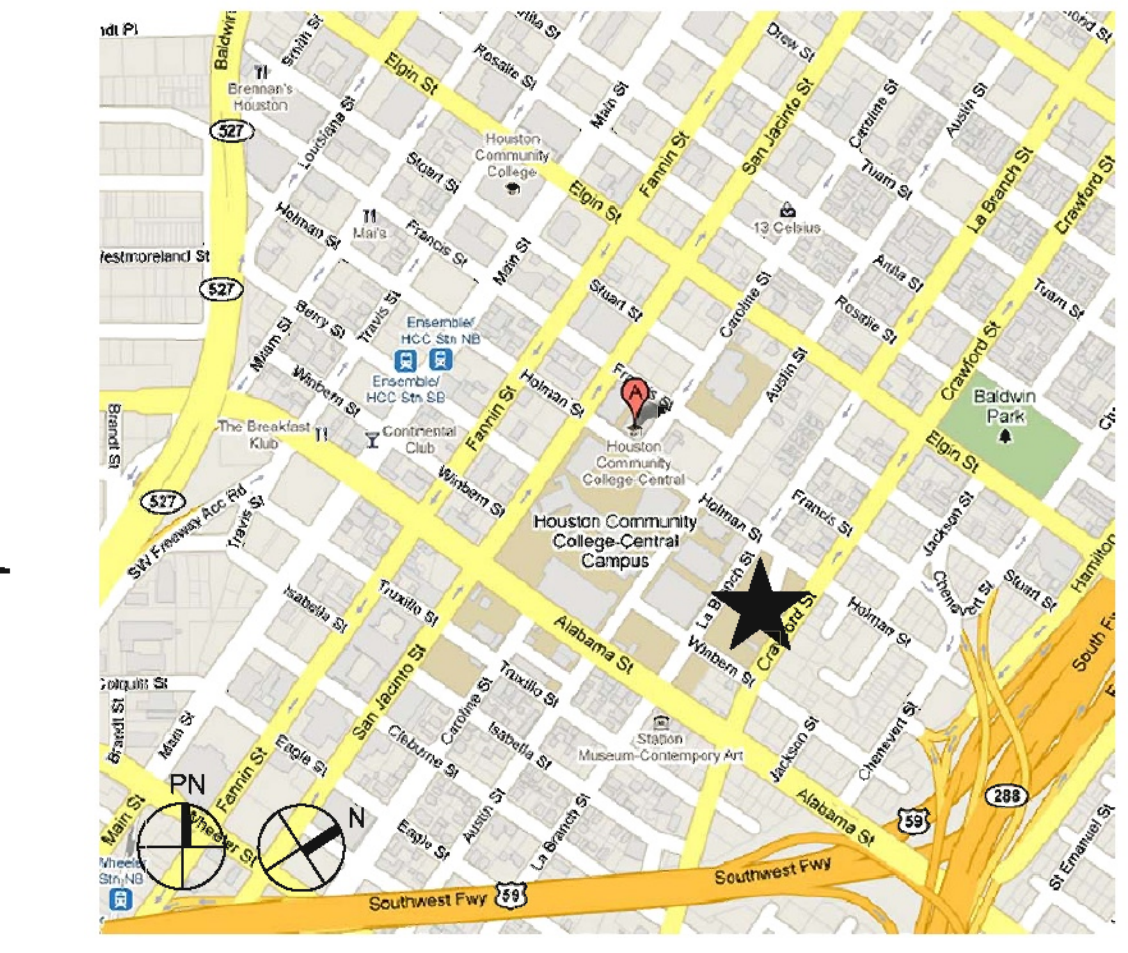
7 GENERAL NOTES
Scale: N.T.S.

PROJECT LOCATION
KEY MAP #494P



6 VICINITY MAP
Scale: N.T.S.

1 STREET MAP
Scale: N.T.S.



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1	ISSUED FOR BID & CONSTRUCTION	05/08/11	JA

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TYPE FORM NO. F-2005-8

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713.580.8900
713.580.8999 Fax

**Central Campus
Parking Lot Improvements**
1300 Holman Street
Houston, TX 77004

Contract No.: A/E Project No.:
Drawn By: XX Date: XXX/XX/XX
Checked By: Date:
Approved By: Date:

Ownership of Instruments of Service:
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Information

Scale: No Scale

1-1.00

26 ABBREVIATIONS
Scale: N.T.S.

16 MATERIAL DESIGNATIONS
Scale: N.T.S.

1 STREET MAP
Scale: N.T.S.



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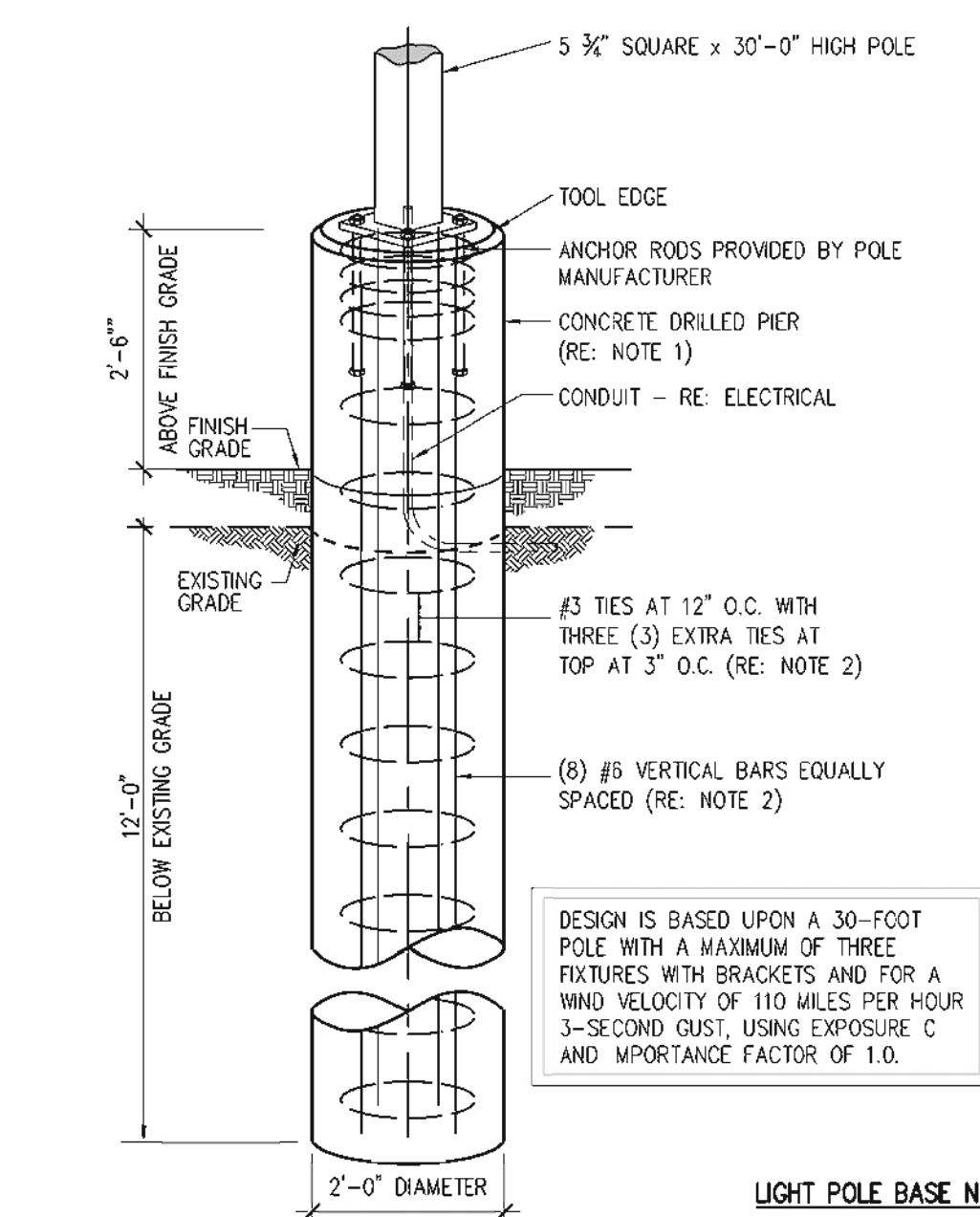
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Site Structural
Details

Scale: As Noted

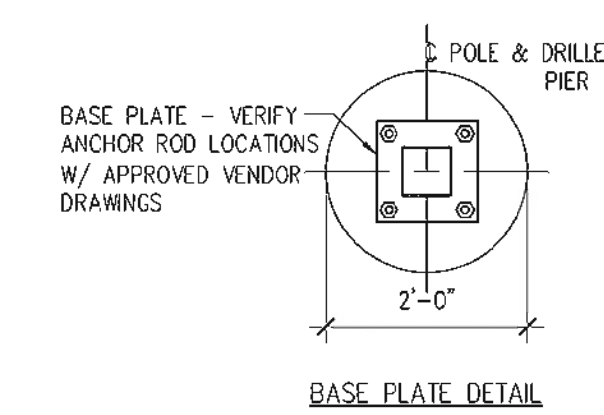
S-1.00



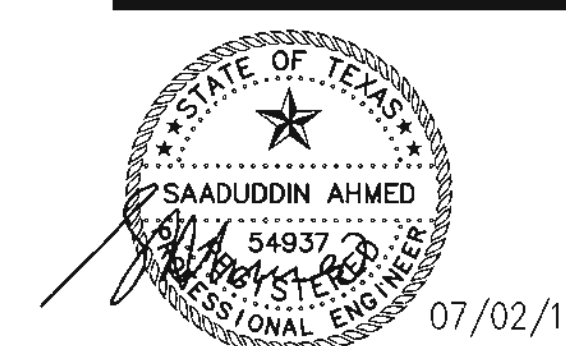
DESIGN IS BASED UPON A 30-FOOT
POLE WITH A MAXIMUM OF THREE
FIXTURES WITH BRACKETS AND FOR A
WIND VELOCITY OF 110 MILES PER HOUR
3-SECOND GUST, USING EXPOSURE C
AND IMPORTANCE FACTOR OF 1.0.

LIGHT POLE BASE NOTES

1. REFER TO SITE PLAN FOR LOCATION OF AREA LIGHT(S).
2. PUMP OUT ANY STANDING WATER IMMEDIATELY BEFORE PLACING STEEL. PROVIDE TEMPORARY STEEL CASING WHERE REQUIRED TO PREVENT CAVING OF THE EXCAVATION.
3. PROVIDE REINFORCING BARS CONFORMING TO ASTM A615, GRADE 60, UNIFORMLY DISTRIBUTE VERTICAL REINFORCING.
4. PROVIDE CONCRETE WITH COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. DEPOSIT CONCRETE TO THE FINAL POSITION BY USE OF A TROWEL TO PREVENT SEPARATION OF AGGREGATE FROM THE MIX. CONSOLIDATE THE TOP 5'-0" BY VIBRATION.
5. A GEOTECHNICAL REPORT NUMBER 92055703 PREPARED BY TERRACON CONSULTING ENGINEERS & SCIENTISTS, DATED MARCH 28, 2006, IS AVAILABLE FOR REVIEW.



FOUNDATION FOR TYPE A3
30 FT. HIGH LIGHT POLE BASE
1/2"=1'-0"



ASA DALLY Inc.
1155 Dairy Ashford #111, Houston TX 77079

CENTRAL CAMPUS
HOUSTON, TX 77004

SHEET NO.: **SK-1**
DATE: JULY 02, 2010

5 Light Pole Foundation Detail
SCALE: 1"=6'-0"

CONSTRUCTION NOTES

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE LOCAL AUTHORITY OR GOVERNING AGENCY OF THE BEGINNING DATE OF CONSTRUCTION AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SEE THAT NO WORK IS DONE WITHOUT THE PROPER INSPECTIONS AND PERMITS BY THE LOCAL AUTHORITY OR GOVERNING AGENCY.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR APPLYING FOR AND PAYING FOR ALL PERMITS AND APPROVALS UNLESS NOTIFIED OTHERWISE.
- ANY POWER POLES, SIGNS, VALVES, ETC. THAT ARE LOCATED IN AN AREA DESIGNATED FOR CONSTRUCTION SHALL BE REMOVED AND/OR RELOCATED AS DIRECTED BY AGENCY HAVING JURISDICTION OVER SUCH ITEMS UNLESS NOTIFIED OTHERWISE. COST FOR SUCH ITEMS SHALL BE PART OF CONTRACT BID PRICE.
- ALL BRUSH, ORGANIC TOPSOIL, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF AT AN OFF-SITE LOCATION. ADDITIONAL SUITABLE FILL MATERIAL SHALL BE BROUGHT ONTO THE SITE, IF NECESSARY. AREAS WHICH ARE TO BE FILLED SHALL BE COMPACTED IN ACCORDANCE WITH THE SOILS REPORT.
- THE CONTRACTOR SHALL VERIFY THE DIMENSIONS SHOWN ON THE CONSTRUCTION PLANS WITH THOSE MEASURED IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- EXISTING UNDERGROUND FACILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND PLANS PROVIDED TO ESPA CORP. THEREFORE THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. VERIFICATION, SUCH AS LOCATION AND ELEVATION, OF EACH FACILITY SHOWN OR NOT SHOWN, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, PRIOR TO COMMENCING CONSTRUCTION.
- AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET RIGHT-OF-WAY OR EASEMENTS, CALL UTILITY COORDINATING COMMITTEE (1-800-245-4545) OR DIG-TESS AT 1-800-344-6377.
- THIS SITE IS NOT WITHIN THE 100-YEAR FLOOD PLAIN.
- CONTRACTOR SHALL NOTIFY THE CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING, ENGINEERING CONSTRUCTION DIVISION (TELEPHONE NO. 713/863-1450) 48 HOURS BEFORE STARTING WORK ON THIS PROJECT.

UTILITY NOTES

- ALL TRENCHES UNDER PROPOSED PAVEMENT SHALL BE BACKFILLED TO SUBGRADE ELEVATION WITH COMPACTED APPROVED GRANULAR MATERIALS. IF USED IN LANDSCAPE OR GRASS AREAS, BACKFILL TO A POINT ONE FOOT BELOW FINISHED GRADE WITH THE REMAINDER BEING HAND TAMPED EXCAVATED SOIL.
- IT SHALL BE THE DUTY AND RESPONSIBILITY OF THE CONTRACTOR AND ALL OF ITS SUBCONTRACTORS TO BE FAMILIAR AND COMPLY WITH ALL REQUIREMENTS OF PUBLIC LAW 91-596, 29 U.S.C. SECS. 651 ET. SEQ., THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, (OSHA) AND ALL AMENDMENTS THERETO, AND TO ENFORCE AND COMPLY WITH ALL OF THE PROVISIONS OF THIS ACT.
- BEFORE COMMENCING ANY TRENCH EXCAVATION WHICH WILL EXCEED DEPTH OF FIVE (5) FEET, CONTRACTOR WILL PROVIDE OWNER WITH DETAILED PLANS AND SPECIFICATIONS REGARDING THE SAFETY SYSTEMS TO BE UTILIZED. SAID PLANS AND SPECIFICATIONS SHALL INCLUDE A CERTIFICATION FROM A REGISTERED PROFESSIONAL ENGINEER INDICATING FULL COMPLIANCE WITH THE OSHA PROVISIONS NOTED ABOVE.
- ESPA CORP SHALL NOT BE HELD LIABLE OR OTHERWISE RESPONSIBLE FOR ANY INJURIES, LOSSES OR DAMAGE RESULTING FROM CONSTRUCTION.
- WATER LINES, WASTEWATER COLLECTION SYSTEMS AND DRAINAGE SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING'S "STANDARD CONSTRUCTION SPECIFICATIONS," LATEST REVISION, AND STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING DATED OCTOBER 2002 WITH ALL SUBSEQUENT AMENDMENTS ADDED THERETO UNLESS OTHERWISE NOTED AND APPROVED ON THESE PLANS.
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE TO THE EXISTING PUBLIC OR PRIVATE PAVEMENTS AND UTILITY LINES, INCLUDING BUT NOT LIMITED TO PAVING, WATER LINES, WASTEWATER COLLECTION SYSTEMS AND STORM SEWERS, DURING CONSTRUCTION. ALL DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH THE CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING "STANDARD CONSTRUCTION SPECIFICATIONS" WITH LATEST ADDENDA AND AMENDMENTS THERETO, WITH NO COST TO THE THE OWNER.
- THIS PROJECT IS SUBJECT TO CITY OF HOUSTON STREET CUT ORDINANCE.

PAVING CONSTRUCTION NOTES

- ALL ROAD WIDTHS, CURB RADII, AND CURVE ALIGNMENT SHOWN INDICATE BACK OF CURB OR EDGE OF PAVEMENT IF THERE IS NO CURB. ELEVATIONS SHOWN INDICATE TOP OF CURB ELEVATIONS ON CURBED STREETS, OR TOP OF PAVEMENT ELEVATION ON NON-CURBED STREETS.
- ALL CURB RADII TO VARY TO FACE OF CURB IN ACCORDANCE WITH THE PLANS WITH A MINIMUM ONE (1%) PERCENT GRADE. UNLESS OTHERWISE NOTED, FOR MACHINE-LAID CURB, OMIT MORTAR FINISH BUT MAINTAIN SAME OUTSIDE DIMENSIONS.
- GUIDELINES SET FORTH IN THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES SHALL BE OBSERVED.
- CURBS ARE TO BE 6-INCH CONCRETE CURBS, UNLESS OTHERWISE NOTED.
- CONCRETE PAVEMENT TO BE MINIMUM 5 SACK MIX. REINFORCING STEEL TO CONFORM TO ASTM A-615, GRADE 60, INCLUDING CRS# 63 AND 65, PROVIDE 15-INCH LAP.
- PAVING SUBGRADE PREPARATION SHALL INCLUDE LIME STABILIZATION IN ALL AREAS. REFER TO SOIL REPORT.
- PAVING CONTRACTOR TO PROTECT WATER, SEWER AND DRAINAGE FACILITIES AND WILL REPLACE AT HIS EXPENSE ANY FACILITIES DAMAGED DURING PAVING OPERATIONS. ALL MANHOLES AND VALVES FALLING WITHIN PAVEMENT ARE TO BE ADJUSTED TO FINISHED GRADE BY PAVING CONTRACTOR WITHOUT THE USE OF BLOCKOUTS, WHEN DIRECTED BY OWNER. NO SEPARATE PAY.
- SUITABLE ROADWAY EXCAVATION SHALL BE PLACED IN FILL AREAS DESIGNATED BY THE OWNER AND COMPACTED IN MAXIMUM 8-INCH LAYERS TO 95% STANDARD PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT OR DISPOSED OF AS DIRECTED BY OWNER. CONTRACTOR SHALL REMOVE MUCK AND UNSUITABLE MATERIAL FROM FILL AREAS PRIOR TO PLACING FILL. SURPLUS EXCAVATED MATERIAL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF AS DIRECTED BY OWNER. ROADWAY FILL SHALL BE SUITABLE MATERIAL PLACED AND COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. MATERIAL WHICH CAN NOT BE COMPACTED TO THE REQUIRED DENSITY SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIAL THAT WILL MEET THE SPECIFIED REQUIREMENTS.

STORM SEWER CONSTRUCTION NOTES

- STORM SEWERS WITHIN THE CITY RIGHT-OF-WAY SHALL BE REINFORCED CONCRETE PIPE, C-76, CLASS III, AND SHALL BE INSTALLED, BEDDED, AND BACKFILLED IN ACCORDANCE WITH CITY OF HOUSTON DRAWING NOS. 02317-03, 02317-04, 02317-09, AS APPLICABLE, UNLESS SHOWN OTHERWISE ON DRAWINGS.
- ALL PROPOSED PIPE STUB OUTS FROM MANHOLES OR INLETS ARE TO BE PLUGGED WITH 8-INCH BRICK UNLESS OTHERWISE NOTED.
- CONTRACTOR TO USE NYLOPLAST DRAIN CATCH BASIN FOR COVER CLEARANCES LESS THAN 1 FOOT. 12" DRAIN CATCH BASINS WILL BE USED WITH ALL HDPE/PVC BODIES AND INLET AND OUTLET ADAPTERS 8" THROUGH 12". STANDARD GRATES WITH H-20 HEAVY DUTY RATING SHALL BE USED AND MATERIAL SHALL CONFORM TO ASTM A48-CLASS 30B, CAST IRON. CASTINGS TO BE FURNISHED WITH BLACK PAINT AND A LOCKING DEVICE WILL BE INSTALLED PER DRAIN CATCH BASIN INLET GRATE.
- ALL SEWER TRENCHES, INCLUDING TRENCHES FOR LEADS AND STUBS, SIZES 48-INCH DIAMETER AND SMALLER, UNDER PAVEMENT AND TO A POINT 1-FOOT BACK OF ALL CURBS SHALL BE BACKFILLED WITH CEMENT-STABILIZED SAND AS PER SPECIFICATIONS, TO A POINT IMMEDIATELY BELOW THE SUBGRADE TREATMENT. THE REMAINING DEPTH OF TRENCH SHALL BE BACKFILLED WITH SUITABLE EARTH MATERIAL IN 6-INCH LAYERS AND MECHANICALLY COMPACTED TO A DENSITY OF NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST (ASTM DESIGNATION D-698, AASHTO 199). MOISTURE CONTENT OF BACKFILL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CEMENT STABILIZED SAND SPECIFICATION.

SWPPP CONSTRUCTION NOTES

- CONTRACTOR SHALL IMPLEMENT INLET PROTECTION DEVICES AND REINFORCED FILER FABRIC BARRIER ALONG ROAD AND SIDE DITCHES AT LOCATIONS SHOWN ON THE TYPICAL STORM WATER POLLUTION PREVENTION (SWPPP) PLANS TO KEEP SILT AND OR EXCAVATED MATERIAL FROM ENTERING INTO THE STORM WATER INLETS AND DITCHES EVENTUALLY POLLUTING THE RECEIVING STORM.
- DURING THE EXCAVATION PHASE OF THE PROJECT, CONTRACTOR SHALL SCHEDULE THE WORK IN SHORT SEGMENTS SO THAT EXCAVATION MATERIAL CAN BE QUICKLY HAULED AWAY FROM THE SITE AND TO PREVENT IT FROM STAYING UNCOLLECTED ON THE EXISTING PAVEMENT. ANY LOOSE EXCAVATED MATERIAL WHICH FALLS ON PAVEMENTS OR DRIVEWAYS SHALL BE SWEEP BACK INTO THE EXCAVATED AREA.
- CONTRACTOR SHALL CLEAN UP THE EXISTING STREET INTERSECTIONS AND DRIVEWAYS DAILY, AS NECESSARY, TO REMOVE ANY EXCESS MUD, SILT OR ROCK TRACKED FORM THE EXCAVATED AREA.
- CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING THE CONSTRUCTION OF THE PROJECT, ALWAYS CLEANING UP DIRT AND LOOSE MATERIAL AS CONSTRUCTION PROGRESSES.
- CONTRACTOR TO INSPECT AND MAINTAIN THE AREAS LISTED BELOW AT LEAST ONCE EVERY FOURTEEN (14) CALENDER DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.
 - DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
 - AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
 - STRUCTURAL CONTROL MEASURES.
 - LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.
- CONTRACTOR TO BE RESPONSIBLE TO MAINTAIN EXISTING DITCHES AND OR CULVERTS FOR UNOBSTRUCTED DRAINAGE AT ALL TIMES. WHERE SODDING IS DISTURBED BY EXCAVATION OR BACKFILLING OPERATIONS, SUCH AREAS SHALL BE REPLACED BY SEEDING OR SODDING. SLOPES 4:1 OR STEEPER SHALL BE REPLACED BY BLOCK SODDING.

TRAFFIC NOTES

- CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TEXAS MUTCD, MOST RECENT EDITION WITH REVISIONS) DURING CONSTRUCTION.
- NOT USED.
- CONTRACTOR SHALL MAINTAIN TRAFFIC LANE(S) ACCORDING TO TRAFFIC CONTROL PLAN(S) DURING WORKING HOURS.
- CONTRACTOR SHALL COVER OPEN EXCAVATIONS WITH STEEL PLATES ANCHORED PROPERLY DURING NON-WORKING HOURS, AND OPEN LANES FOR NORMAL TRAFFIC WHEN LANES ARE BLOCKED.
- OFF DUTY UNIFORMED POLICE OFFICER(S)/FLAGGER(S) IS/ARE REQUIRED TO DIRECT TRAFFIC WHEN LANES ARE BLOCKED.
- IN THE EVENT WHEN NO "TRAFFIC CONTROL PLANS" EXIST AS PART OF CONTRACT DRAWINGS, CONTRACTOR MAY PREPARE THE PLANS* AND SUBMIT TO TRAFFIC AND SIGNAL ENGINEERING SECTION, FOR APPROVAL TEN WORKING DAYS PRIOR TO IMPLEMENTATION.

*THESE PLANS SHALL BE DRAWN TO SCALE ON REPRODUCIBLE MYLARS AND SEALED BY A LICENSED ENGINEER IN THE STATE OF TEXAS. PLANS WILL BECOME A PART OF THE CONTRACT DRAWINGS.

- APPROVED COPIES OF "TRAFFIC CONTROL PLANS" AND LANE/SIDEWALK CLOSURE SHALL BE AVAILABLE FOR INSPECTION AT JOB AT ALL TIMES. CONTRACTOR MUST SECURE "LANE/SIDEWALK CLOSURE PERMIT" FROM CITY'S TRAFFIC MANAGEMENT AND MAINTENANCE BRANCH BEFORE CLOSING A LANE/SIDEWALK. THE REQUEST MUST BE MADE AT LEAST THREE BUSINESS DAYS PRIOR TO THE DATE FOR WHICH THE CLOSURE IS SOUGHT. NOTE THAT WORKING HOURS MAY BE RESTRICTED OR THE REQUEST MAY BE DENIED. CALL CALL 713-837-7280 FOR AN APPLICATION.

AT&T NOTES

- THE LOCATION OF AT&T FACILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL CALL 1-800-344-8377 A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.
- WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF AT&T FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING THE CONTRACTOR SHALL EXPOSE THE AT&T FACILITIES.
- WHEN AT&T FACILITIES ARE EXPOSED, THE CONTRACTOR SHOULD PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT.

CENTERPOINT ENERGY NOTES

CAUTION: UNDERGROUND GAS FACILITIES

LOCATIONS OF CENTERPOINT ENERGY MAIN LINES (TO INCLUDE UNIT GAS TRANSMISSION AND/OR INDUSTRIAL GAS SUPPLY CORPORATION WHERE APPLICABLE) ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT (713)223-4567 OR 1-800-669-8344 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

- WHEN CENTERPOINT ENERGY PIPE LINE MARKINGS ARE NOT VISIBLE, CALL (713)987-8037 (7:00 A.M. TO 4:30 P.M.) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.
- WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTER POINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
- WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.

THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

CENTERPOINT ENERGY ASSUMES NO RESPONSIBILITY FOR THE OWNERSHIP FOR OR THE ACCURACY OF THE ABANDONED GAS LINES SHOWN ON THESE PLANS. THE CONTRACTOR SHALL NOTIFY CENTERPOINT ENERGY AT (713)-872-4816 AFTER EXPOSING ANY ABANDONED OR ACTIVE GAS LINES. THE GAS LINES SHALL NOT BE DISTURBED BY THE CONTRACTOR UNTIL CENTERPOINT ENERGY HAS VERIFIED THE STATUS OF THE LINE.

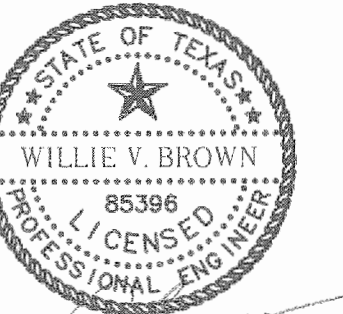
WARNING: OVERHEAD ELECTRICAL FACILITIES

OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE NOT ATTEMPTED TO MARK THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT THE CONTRACTOR SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL CENTER POINT ENERGY AT 713-207-2222.



Houston Community College

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reynaldo.pradia@hccs.edu



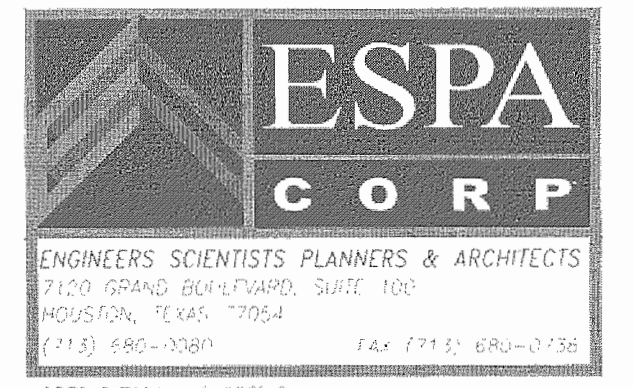
4/25/12

Issue/Revision:

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR BID & CONSTRUCTION	05/09/11	JA

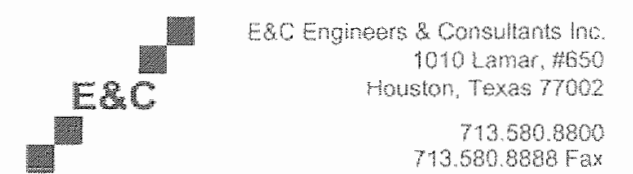
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**Central Campus
Parking Lot Improvements**

1300 Holman Street
Houston, TX 77004

Contract No.:	A/E Project No.:
Drawn By:	Date:
Checked By:	Date:
Approved By:	Date:

Ownership of Instruments of Service:
All reports, plans, specifications, computer files, field data, notes & other documents and instruments prepared for Houston Community College as instruments of service shall become the property of Houston Community College. Houston Community College shall gain all common law, statutory and other reserved rights, including the copyright thereto.

GENERAL NOTES

Scale: N.T.S.

PLAN VIEW

CIVIL LEGEND

PROFILE VIEW

	IRON PIPE OR IRON ROD MONUMENTS
	SURVEY MONUMENT
	TRANSIT LINE (BASE LINE)
	EXISTING RIGHT-OF-WAY
	PROPERTY LINE
	LOT LINE
	EASEMENT LINE
	DIMENSION LINE
	EDGE OF PAVEMENT
	CURB AND GUTTER
	EDGE OF ASPHALT
	EDGE OF GRAVEL OR DIRT DRIVE
	RAILROAD
	SIDEWALK
	GUARD RAIL
	CONCRETE BARRIER
	GUARD POST
	RIPRAP
	TREE
	HEDGE
	BUILDING
	POST
	STREAM

	CENTERPOINT CABLE
	CENTERPOINT MANHOLE
	POWER POLE W/ OVERHEAD LINES
	POWER POLE DOWN GUY
	SBC CONTROLLER BOX
	SBC MANHOLE & CONDUIT
	TELEPHONE BOX
	STREET OR YARD LIGHT
	TRAFFIC SIGNAL POLE
	ELECTRICAL JUNCTION OR PULL BOX
	PIPELINE MARKERS AND/OR VENTS
	SMALL SIGN
	SIGN POST
	FENCE LINE (CHAIN LINK OR OTHER)
	FENCE LINE (BARBED WIRE)
	SOIL BORING
	NORTH OR EAST PROPERTY LINE
	SOUTH OR WEST PROPERTY LINE
	NORTH OR EAST DITCH OR CURB
	SOUTH OR WEST DITCH OR CURB
	SANITARY SEWER LINE EXISTING SANITARY SEWER & MANHOLE
	PROPOSED SANITARY SEWER LINE & MANHOLE
	LIGHT STANDARD

	SPOT ELEVATION
	WATER LINE
	WATER VALVE
	FIRE HYDRANT
	WATER METER
	CENTERPOINT ENERGY
	SANITARY SEWER LINE
	STORM SEWER LINE
	STORM SEWER LINE & MANHOLE
	CURB INLET >
	PROPOSED STORM SEWER LINE & MANHOLE
	PROPOSED CURB INLET >
	CULVERT
	GRATE INLET
	DITCHES, LEFT AND RIGHT

	CENTERPOINT ENERGY CONDUIT		EXIST 24" STM SEW	STORM SEWER LINE (24" AND SMALLER)
	CENTERPOINT ENERGY GAS LINE		EXIST 30" STM SEW	STORM SEWER LINE (30" AND LARGER)
	SBC CONDUIT		CENTERPOINT ENERGY MANHOLE	
	WATER LINE (4" & LARGER)		SBC MANHOLE	
	SANITARY SEWER LINE (24" AND SMALLER)		EXISTING SANITARY SEWER MANHOLE AND CLEANOUT	
	SANITARY SEWER LINE (30" AND LARGER)		PROPOSED SANITARY SEWER & MANHOLE	
			PROPOSED STORM SEWER & MANHOLE	

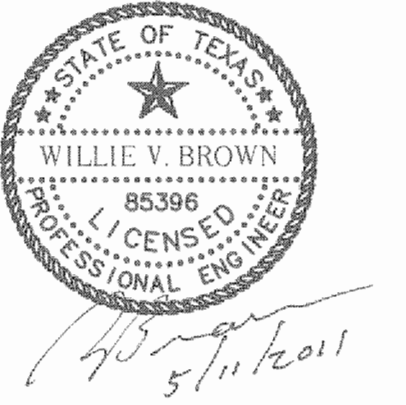
ABBREVIATIONS

&	AND	DEG OR °	DEGREE OF CURVE (ARC) DEFINITION	FL	FLOW LINE	MAX	MAXIMUM	PROTECT	PROTECTION	T	TANGENT/ TELEPHONE
@	AT	DIA OR Ø	DIAMETER	FLG	FLANGE	MCD	MULTIPLE CONDUIT DUCT	PS	PUMP STATION	T/	TOP OF
AC	ACRE	DIP	DUCTILE IRON PIPE	FLR	FLOOR	MFR	MANUFACTURER	PSI	POUNDS PER SQUARE INCH	TBM	TEMPORARY BENCH MARK
ADJ	ADJUSTMENT	DIST	DISTANCE	FM	FORCE MAIN	MH	MANHOLE	PVC	POLYVINYL CHLORIDE	TC	TOP OF CURB
APPROX	APPROXIMATE	DR	DRIVE	FT	FEET	MIN	MINIMUM	PVMT	PAVEMENT	TEMP	TEMPORARY
APTS	APARTMENTS	DRN	DRAIN	FTG	FOOTING	MJ	MECHANICAL JOINT	PW	PLANT WATER OR POTABLE WATER	THK	THICK
ASPH	ASPHALT	DTL	DETAIL	fy	YIELD STRENGTH (PSI)	MON	MONUMENT	R	RADIUS OF CIRCULAR CURVE	TXDOT	TEXAS DEPARTMENT OF TRANSPORTATION
ASSY	ASSEMBLY	D/W	DRIVEWAY	G	GAS	MTD	MULTI TILE DUCT	RCP	REINFORCED CONCRETE PIPE	TG	TOP OF GRATE
AVE	AVENUE	DWG	DRAWING	GAL	GALLON	MTL	MATERIAL	RD OR RD.	ROAD	TMUTCD	TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
AVG	AVERAGE	E	EAST/ ELEC.	GALV	GALVANIZED	N	NORTH	RE: OR REF	REFERENCE	TOC	TOP OF CONCRETE
B/	BOTTOM OF	EA	EACH	GPM	GALLONS PER MINUTE	N-S	NORTH-SOUTH	REIN	REINFORCED, REINFORCING OR REINFORCEMENT	TP	TOP OF PAVEMENT
B/C	BACK OF CURB	ECC	ECCENTRIC	GV W/BOX	GATE VALVE AND BOX	NA	NOT APPLICABLE	REQ'D	REQUIRED	TRAF	TRAFFIC
BL	BASE LINE	EDB	ELECTRIC DUCT BANK	HB	HOSE BIBB	NG	NATURAL GROUND	ROW	RIGHT OF WAY	TRAV	TRAVERSE
BEG	BEGINNING	EFF	EFFLUENT	HP	HIGH PRESSURE (GAS LINE), HORSE POWER	NGS	NATIONAL GEODETIC SURVEY	RTR	RIGHT	TY	TYPE
BF	BLIND FLANGE	ELECT	ELECTRIC	HL&P OR HLP	HOUSTON LIGHTING & POWER CO	NTS	NOT TO SCALE	RWW	RAW WASTERWATER	TYP	TYPICAL
BFP	BACKFLOW PREVENTER	ELEV OR EL	ELEVATION	HORIZ	HORIZONTAL	NIC	NOT IN CONTRACT	S	SOUTH	U/G	UNDERGROUND
BH	BORE HOLE	ELL	ELBOW	HWL	HIGH WATER LEVEL	NO. OR #	NUMBER	SAN	SANITARY	VAR	VARIABLE
BLDG	BUILDING	EMB	EMBANKMENT	HWY	HIGHWAY	OD	OUTSIDE DIAMETER	SCH OR SCHD	SCHEDULE	VCP	VITRIFIED CLAY PIPE
BLVD	BOULEVARD	EOP	EDGE OF PAVEMENT	ID	INSIDE DIAMETER	OC	ON CENTER	SD	STORM DRAIN	VOL	VOLUME
		EXIST.	EXISTING	IN.	INCH	O/E	OVERHEAD ELECTRIC	SWR	SEWER		
		EXP	EXPANSION	INF	INFLUENT SEWER	OH	OVERHEAD	SF	SQUARE FEET	W	WEST
				INV OR IE	INVERT ELEVATION	P & ID	PROCESS AND INSTRUMENT DIAGRAM	SHT	SHEET	W/	WITH
CC	CENTER OF CURVE	FB	FIELD BOOK	IP	IRON PIPE OR INTERMEDIATE PRESSURE (GAS LINE)	PE	PLAIN END	SIG	SIGNAL	W/O	WITHOUT
C-C	CENTER TO CENTER	fc'	COMPRESSION STRENGTH (PSI)	IR	IRON ROD	PG	PAGE	SPEC	SPECIFICATION	WL	WATER LINE
CEM	CEMENT	FCA	FLANGED COUPLING ADAPTER	JT	JOINT	P/L	PROPERTY LINE OR PIPE LINE	SQ	SQUARE	WWF	WOVEN OR WELDED WIRE FABRIC
CF	CUBIC FEET	FF OR F-F	FACE TO FACE			PGL	PROFILE GRADE LINE	SR	SHORT RADIUS		
CI	CAST IRON	FH	FIRE HYDRANT			PI	POINT OF INTERSECTION	SS	STAINLESS STEEL/ SANITARY SEWER		
CIP	CAST IRON PIPE	FIG	FIGURE			PL	PLATE	ST	STREET		
CITY	CITY OF HOUSTON					PP	POWER POLE	STA	STATION ALONG BASELINE OR CENTERLINE		
Q OR CL	CENTERLINE					PROP	PROPOSED	STAB	STABILIZED		
CLEAR OR CLR	CLEARANCE					PT	POINT OF TANGENT	STD	STANDARD		
CMP	CORRUGATED METAL PIPE							STL	STEEL		
CO	CLEAN OUT							STM	STORM		
COH	CITY OF HOUSTON							SBC	SOUTHWESTERN BELL CORPORATION		
CONC	CONCRETE							S/W	SIDEWALK		
COND	CONDUIT							SY	SQUARE YARD		
CONN	CONNECTION										
CONSTR	CONSTRUCTION										
CONT	CONTINUOUS										
CORR	CORROSION										
CTB	CONCRETE TRAFFIC BARRIER										



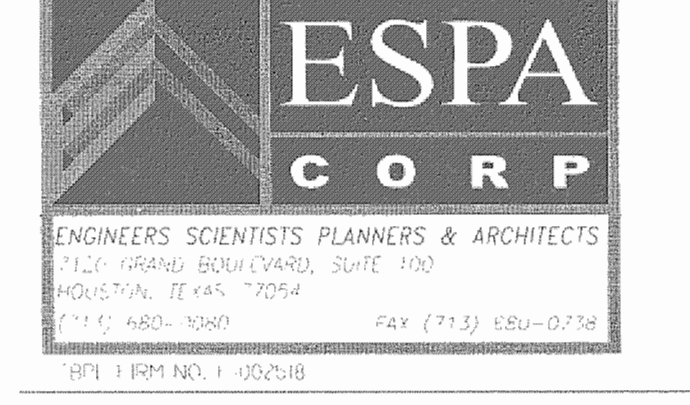
Houston Community College

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REV	DESCRIPTION	DATE	BY
1	ISSUED FOR BID & CONSTRUCTION	05/09/11	JA

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Parking Lot Improvements
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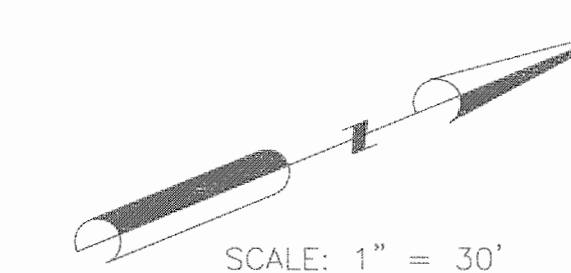
Contract No.:	A/E Project No.:
Drawn By:	Date:
Checked By:	Date:
Approved By:	Date:

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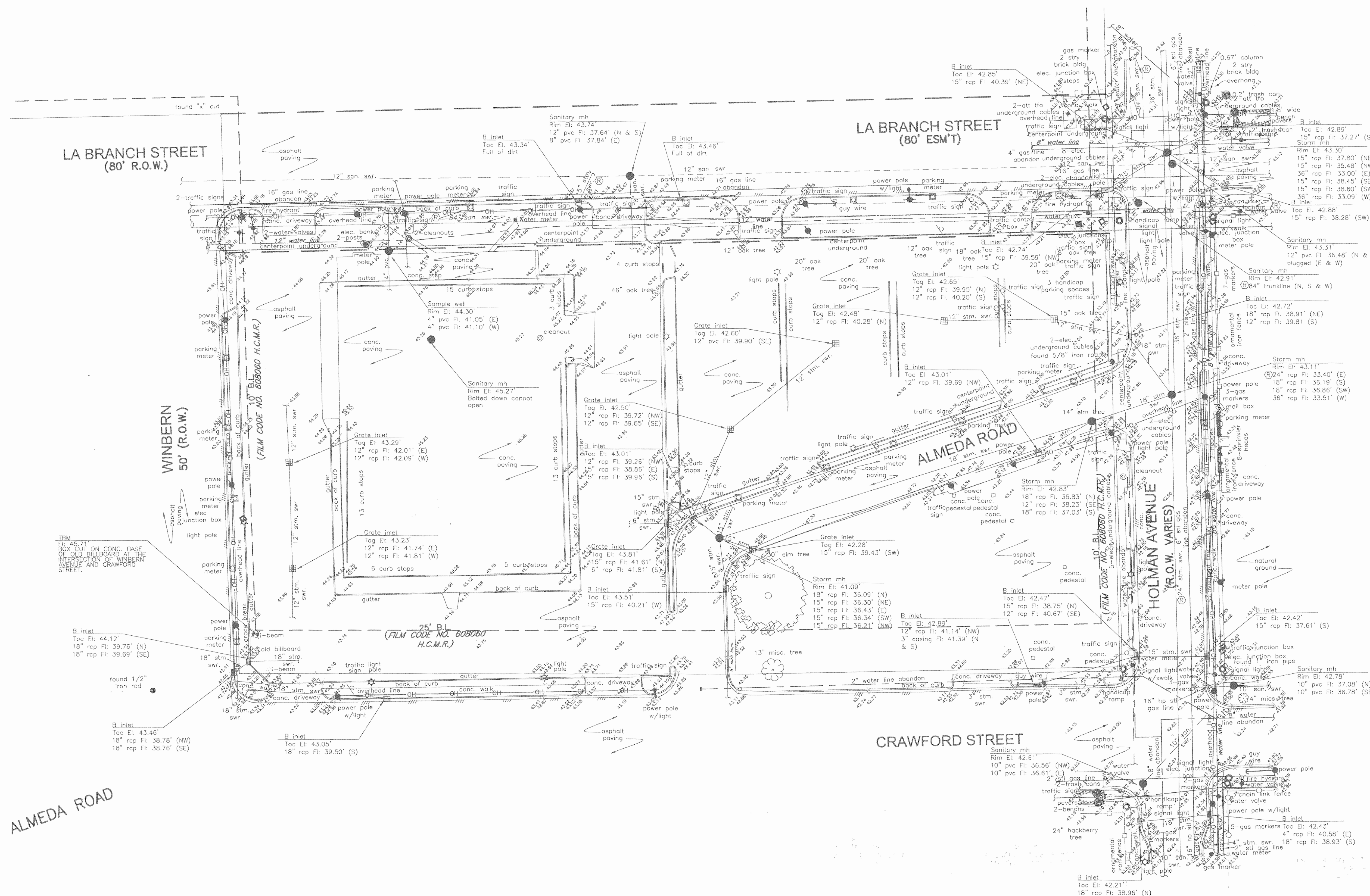
LEGEND AND ABBREVIATIONS

Scale: N.T.S.

F:\2166-024\C2.0 Legend Abbreviations.dwg Plotted: May 11, 2011 - 10:37am by lloyd



SCALE: 1" = 30'



LEGEND

- WATER VALVE
- POWER POLE
- B OR BB INLET
- POST
- FIRE DEPARTMENT CONNECTIONS
- BUILDING
- WOOD FENCE
- CHAIN LINK FENCE
- OVERHEAD LINE
- UNDERGROUND LINE
- MAILBOX
- GAS METER
- HANDICAP
- FOUND IRON ROD
- FOUND IRON PIPE
- UNDERGROUND CABLE MARKER
- SET MONUMENTS BY TERAN GROUP
- RECORD DRAWING
- PROPERTY LINE
- VOLUME
- PAGE
- H.C.F.C.
- H.C.F.C.D
- H.C.M.R
- H.C.D.R.
- B.L.
- UTILITY EASEMENT
- FINISH FLOOR
- SPOT ELEVATION

Issue/Revision:

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR BID & CONSTRUCTION	05/09/11	JA

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HOUSTON, TEXAS 77042
PH: 713-244-9795
FAX: 713-244-9794

TOPOGRAPHIC SURVEY
OF
HOUSTON COMMUNITY COLLEGE
CENTRAL CAMPUS
PARKING LOT BOUNDED BY HOLMAN
AVENUE, CRAWFORD STREET, WINBERN
AVENUE AND LA BRANCH STREET
HARRIS COUNTY, TEXAS

DRAWN BY: H.A.	DATE: 05-19-10	TERAN GROUP PROJECT NO. 2010-035
APPROVED BY: O.T.	DATE: 05-19-10	

SCALE: 1" = 20' SHEET NO 1 OF 1

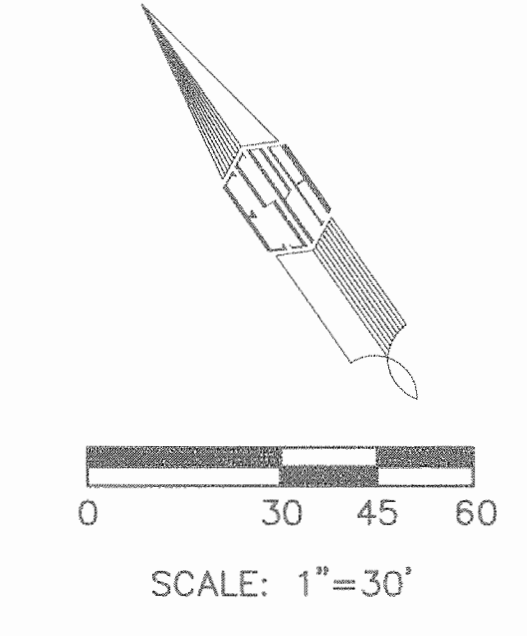
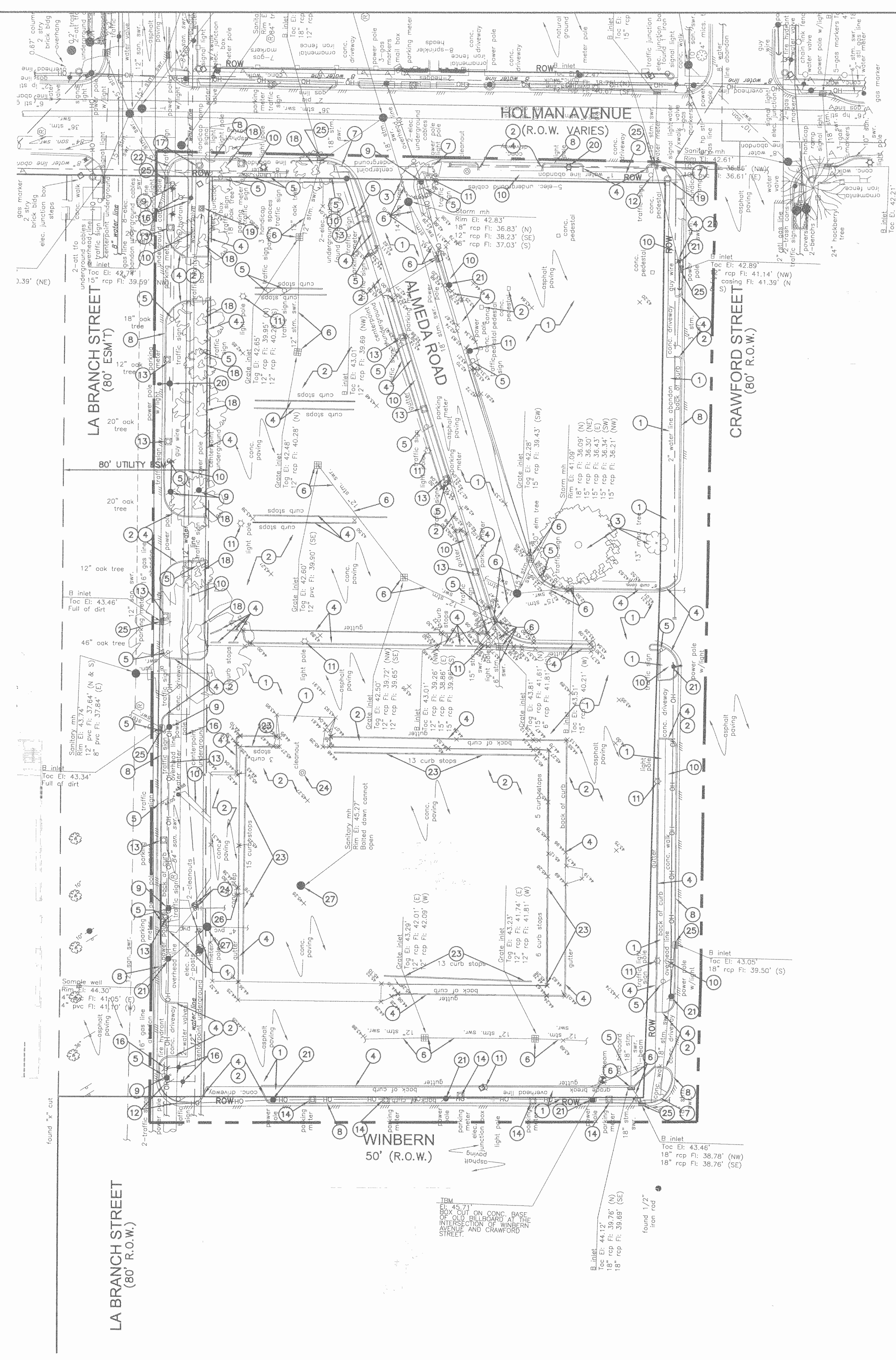
- NOTES:
- ALL ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD) (2001 ADU).
 - TEMPORARY BENCHMARK (T.B.M.) - ELEV. 45.71'
A ROCK CUT ON CONC. BASE OF OLD BILLBOARD AT THE INTERSECTION OF WINBERN AVENUE AND CRAWFORD STREET.
 - THE SUBJECT PROPERTY IS LOCATED IN ZONE X ACCORDING TO FEMA FLOOD INSURANCE RATE MAP NO. 48201C0880L, REVISED JUNE 18, 2007.

Contract No.:	A/E Project No.:
Drawn By:	Date:
Checked By:	Date:
Approved By:	Date:

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TOPOGRAPHIC SURVEY

Scale:



- LEGEND:**
- EXIST STM SHR MH
 - EXIST TYPE "A" INLET
 - EXIST SAN SHR MH
 - POWER POLE
 - B OR BB INLET
 - POST
 - FIRE DEPARTMENT CONNECTIONS
 - ▭ BUILDING
 - WOOD FENCE
 - CHAIN LINK FENCE
 - OVERHEAD LINE
 - UNDERGROUND LINE
 - ⊞ MAILBOX
 - ⊞ GAS METER
 - HC HANDICAP
 - FOUND IRON ROD
 - FOUND IRON PIPE
 - ⊞ UNDERGROUND CABLE MARKER
 - ⊞ SET MONUMENTS BY TERAN GROUP
 - ⊞ PARKING METER
 - PL PROPERTY LINE
 - VOL. VOLUME
 - PG. PAGE
 - H.C.C.F. HARRIS COUNTY CLERK'S FILE
 - H.C.F.C.D. HARRIS COUNTY FLOOD CONTROL DISTRICT
 - H.C.M.R. HARRIS COUNTY MAP RECORDS
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 - B.L. BUILDING LINE
 - U.E. UTILITY EASEMENT
 - FF FINISH FLOOR
 - ⊞ FROM RECORD DRAWINGS
 - ① ELECTRICAL UNDERGROUND CABLES WERE UNABLE TO BE LOCATED
 - ② UNDERGROUND CABLES TO BUILDING, UNABLE TO LOCATE
 - ③ UNDERGROUND WATER LINES WERE UNABLE TO BE LOCATED
 - ④ UNABLE TO LOCATE ANY UNDERGROUND LINE
- LIMITS OF DISTURBANCE

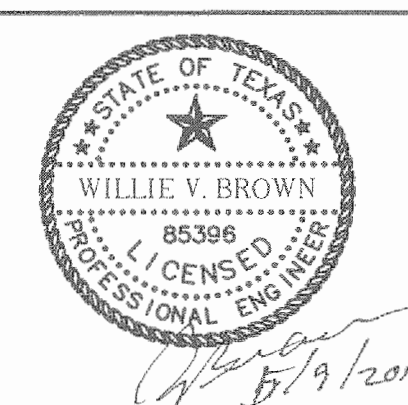
- DEMOLITION KEY NOTES**
- 1 REMOVE EXISTING ASPHALT PAVEMENT AND BASE MATERIAL
 - 2 REMOVE EXISTING CONCRETE PAVEMENT, CONCRETE DRIVEWAY APRONS AND CONCRETE PEDESTALS
 - 3 REMOVE TREES WITH COMPLETE ROOT STRUCTURE TO BELOW 6'-0" SEE GEOTECHNICAL REPORT
 - 4 REMOVE EXISTING CONCRETE CURB
 - 5 REMOVE EXISTING SIGNS INCLUDING OVERHEAD SIGNS
 - 6 REMOVE EXISTING AREA INLETS, TYPE "B" INLET, MANHOLE, AND STORM SEWERS
 - 7 REMOVE EXISTING CONCRETE HC RAMP
 - 8 EXIST CONCRETE CURB TO REMAIN
 - 9 COORDINATE WITH CENTERPOINT ENERGY FOR REMOVAL AND RELOCATION EXISTING POWER POLES
 - 10 REMOVE EXISTING SIDEWALK
 - 11 EXISTING LIGHT STANDARDS & PARKING LOT LIGHT TO BE REMOVED
 - 12 EXISTING STREET SIGNS IN PUBLIC R.O.W. TO BE REMOVED DURING CONSTRUCTION AND RE-INSTALLED. CONTRACTOR TO COORDINATE WITH CITY OF HOUSTON.
 - 13 EXISTING PARKING METERS TO BE REMOVED
 - 14 EXISTING PARKING METER IN A PUBLIC R.O.W. TO BE REMOVED DURING CONSTRUCTION AND RE-INSTALLED. CONTRACTOR TO COORDINATE WITH CITY OF HOUSTON BEFORE THE REMOVAL OF METERS.
 - 15 NOT USED
 - 16 EXISTING FIRE HYDRANT AND WATER VALVE TO REMAIN CONTRACTOR TO ADJUST EXIST FIRE HYDRANT AND WATER VALVES TO PROP FINISHED GRADE
 - 17 RELOCATE EXISTING TRAFFIC SIGNAL CONTROL BOX. CONTRACTOR TO COORDINATE WITH THE CITY OF HOUSTON.
 - 18 EXISTING TREES TO REMAIN
 - 19 RELOCATE EXISTING TRAFFIC SIGNAL POLE. CONTRACTOR TO COORDINATE WITH THE CITY OF HOUSTON.
 - 20 EXISTING LIGHT STANDARDS TO REMAIN
 - 21 EXISTING POWER POLE TO REMAIN
 - 22 EXISTING CONCRETE HC RAMP TO REMAIN
 - 23 REMOVE EXISTING CURB STOPS
 - 24 REMOVE EXISTING CLEANOUT
 - 25 EXISTING INLET TO REMAIN IN PLACE
 - 26 REMOVE EXISTING CONCRETE STEP
 - 27 REMOVE EXISTING SANITARY SEWER MANHOLE, SAMPLE WELL, AND PLUG EXISTING PIPES

- GENERAL NOTES**
1. CONTRACTOR SHALL COMPLY WITH ALL CITY REGULATIONS AND SECURE NECESSARY PERMITS REQUIRED BY CITY OF HOUSTON FOR DEMOLITION AND REMOVAL OF BUILDINGS.
 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.
 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. 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.
 10. 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.



**Houston
Community
College**

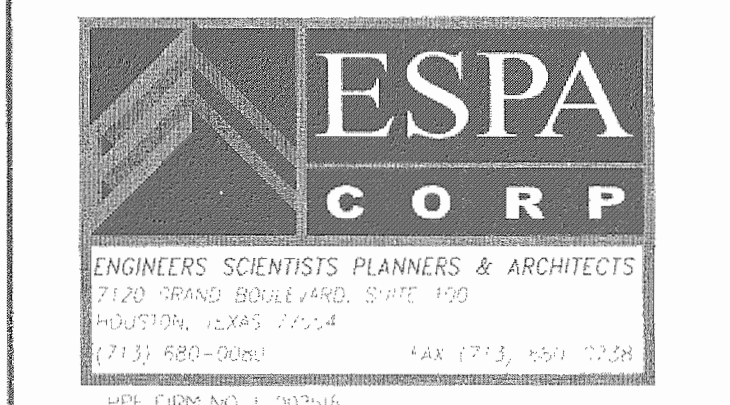
HCC - Construction Department
3100 Main, 12th Floor
Houston, Texas, 77002
Voice: 713.718.5168
reynaldo.pradia@hccs.edu



Issue/Revision:

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR BID & CONSTRUCTION	05/08/11	JA

Illewelyn-davies sahani
architecture + planning + design
5120 Woodway, Suite 8010
Houston, TX 77056
p: 713.850.1500
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e: info@thelidnet.com



ENVIRONMENTS & CO
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LIGHTING DESIGNER
18403 PEBBLE BEND DR.
HOUSTON, TEXAS 77065

E&C
E&C Engineers & Consultants Inc.
1010 Lamar, #650
Houston, Texas 77002
713.580.8800
713.580.8888 Fax

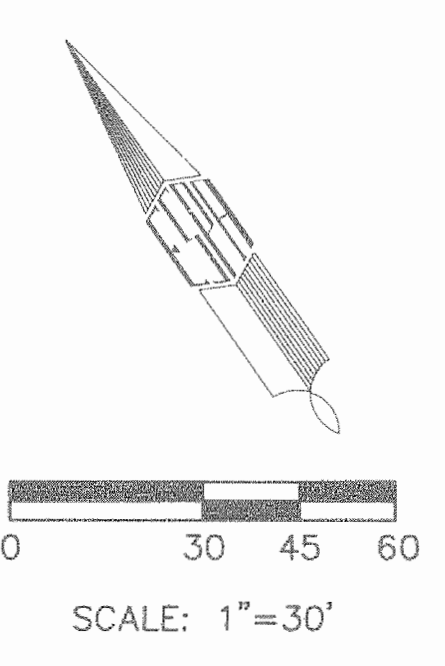
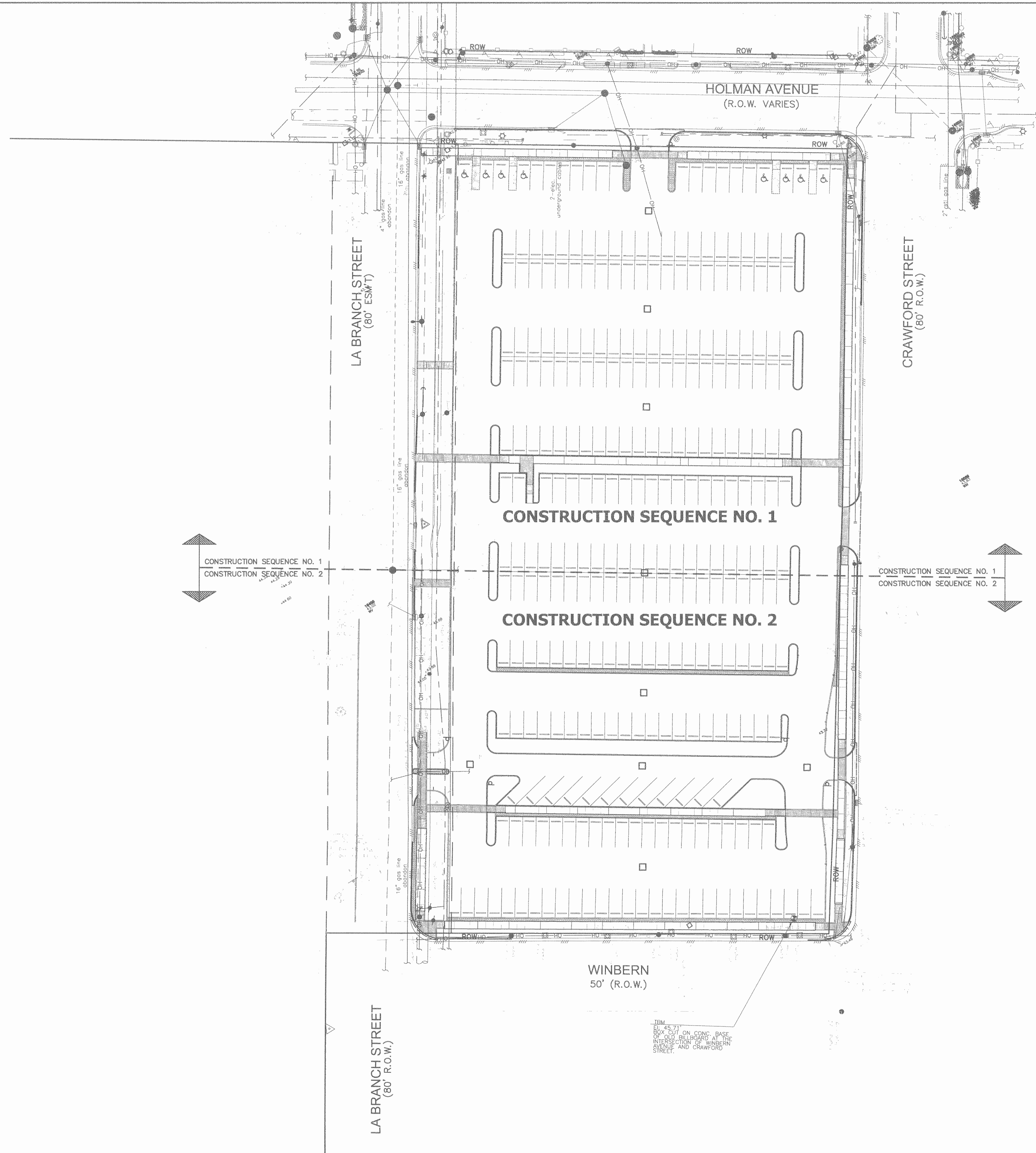
**Central Campus
Parking Lot Improvements**
1300 Holman Street
Houston, TX 77004

Contract No.: A/E Project No.:
Drawn By: Date:
Checked By: Date:
Approved By: Date:

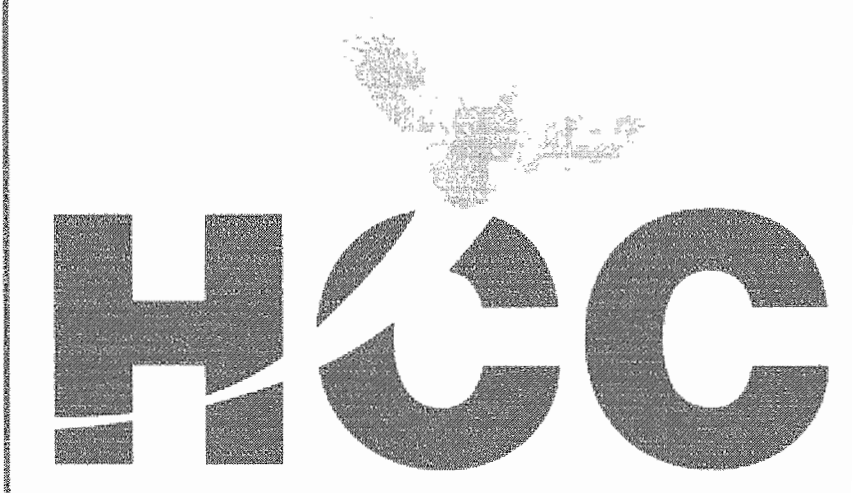
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DEMOLITION PLAN

Scale: 1"=30'

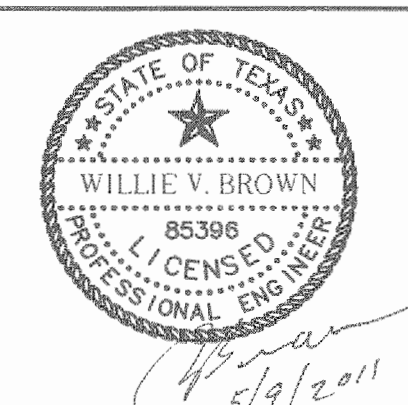


- BENCHMARK:**
1. ALL ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD) (2001 ADJ.)
 2. TEMPORARY BENCHMARK (T.B.M.) - ELEV. 45.71' A BOX CUT ON CONC. BASE OF OLD BILLBOARD AT THE INTERSECTION OF WINBERN AVENUE AND CRAWFORD STREET
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Community
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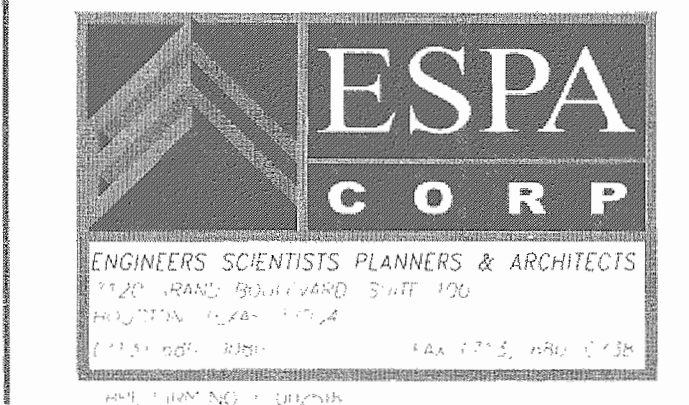
HCC - Construction Department
3100 Main, 12th Floor
Houston, Texas, 77002
Voice: 713.718.5168
reynaldo.pradia@hccs.edu



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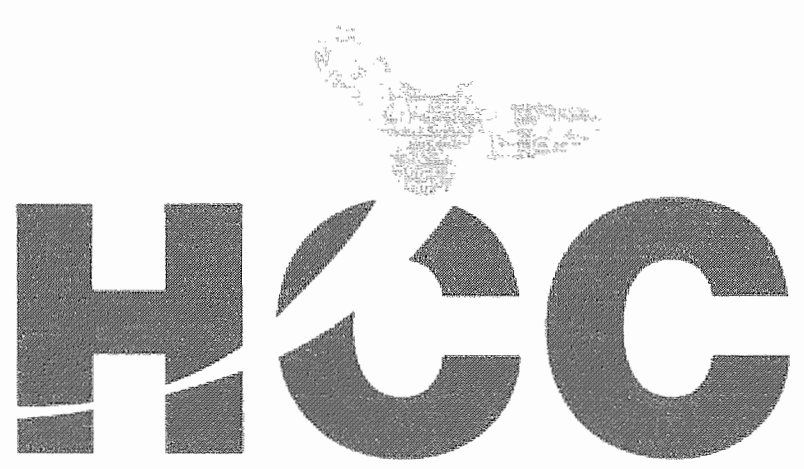
Contract No.: A/E Project No.:
Drawn By: Date:
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**CONSTRUCTION
SEQUENCE PLAN**

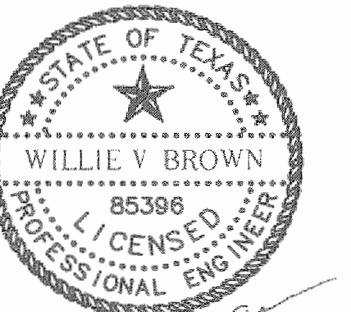
Scale: 1"=30'

C-5.0



Houston Community College

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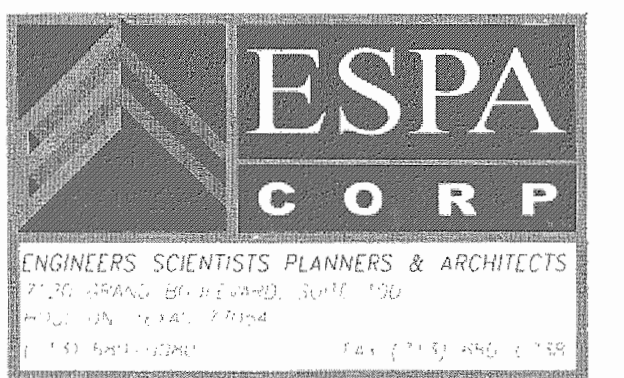


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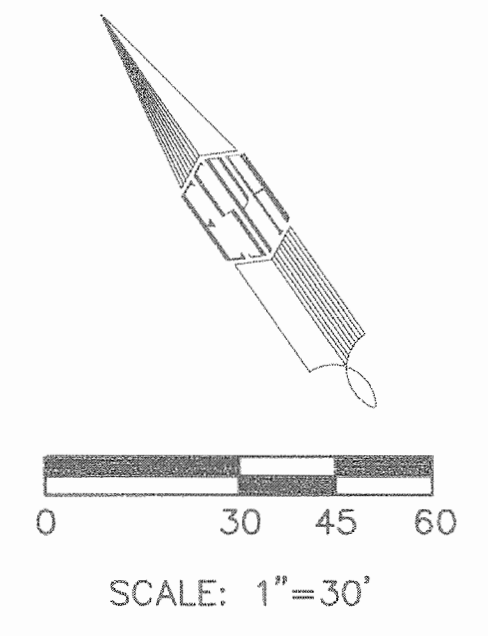
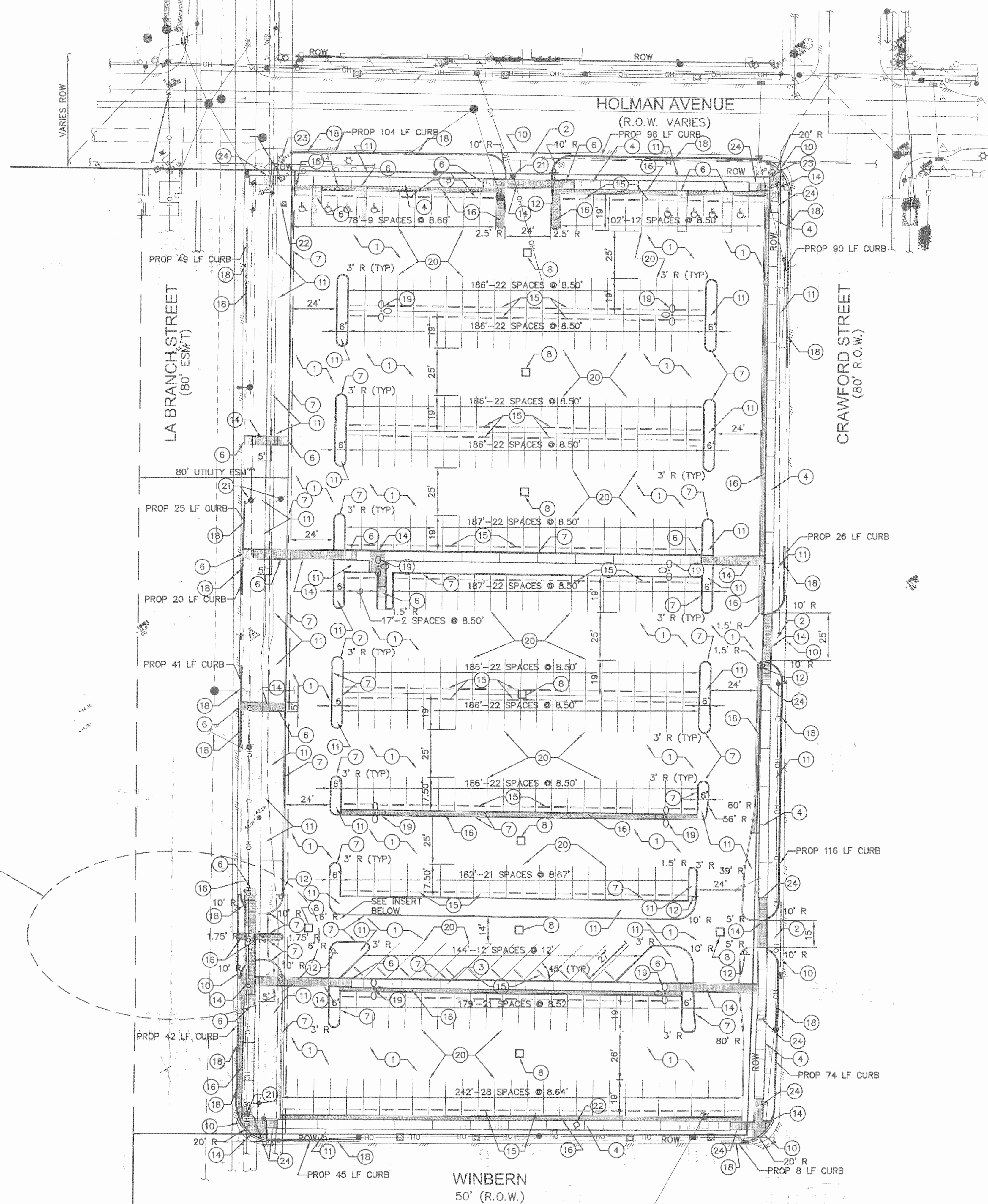
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CIVIL SITE PLAN

Scale: 1"=30'

C-6.0



LEGEND:

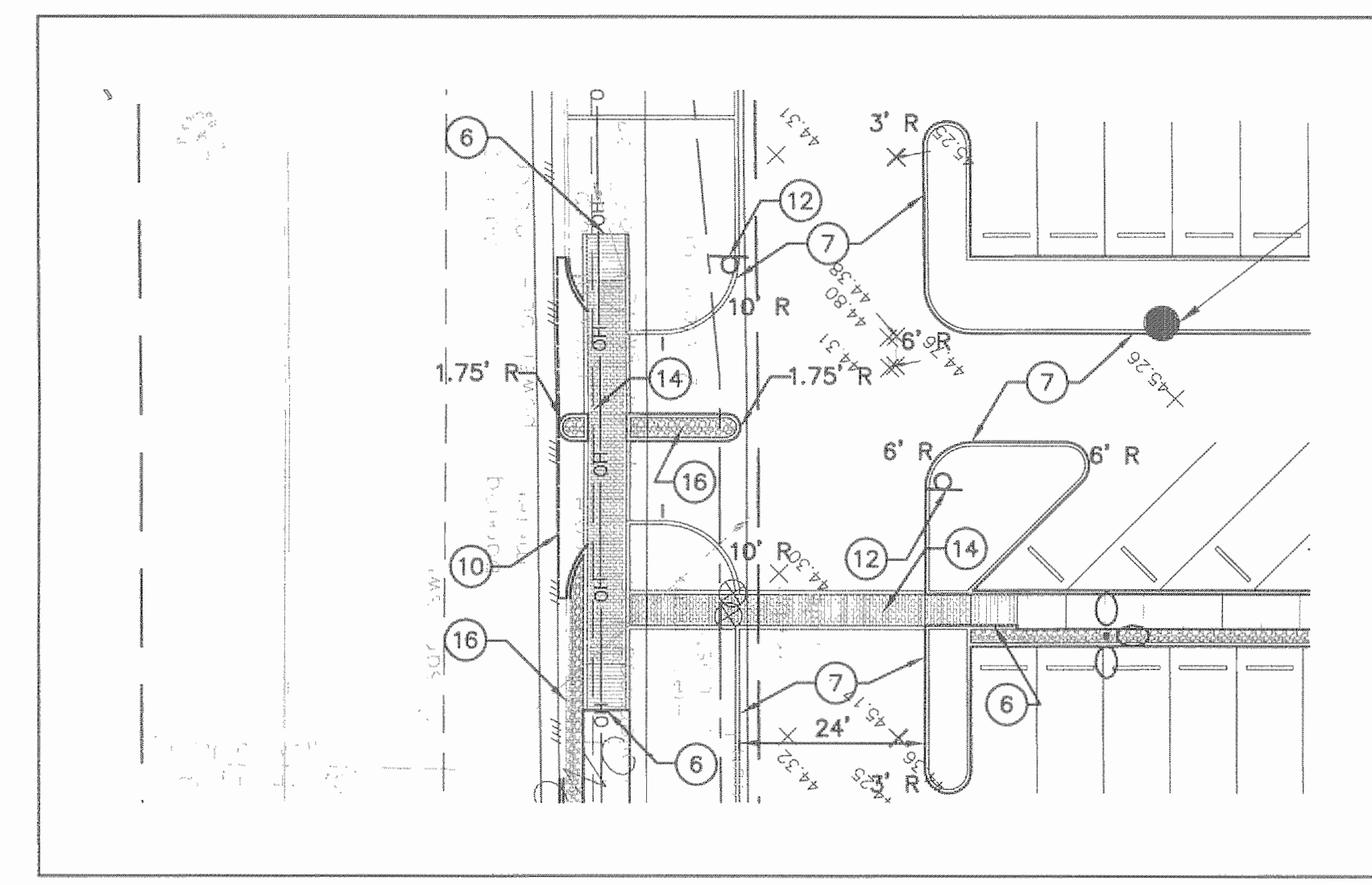
- PROP AREA INLET
- EXIST STM SWR MH
- EXIST TYPE "A" INLET
- EXIST SAN SWR MH
- POWER POLE
- B OR BB INLET
- POST
- FIRE DEPARTMENT CONNECTIONS
- ▭ BUILDING
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- ▭ CHAIN LINK FENCE
- ▭ OVERHEAD LINE
- ▭ UNDERGROUND LINE
- ▭ MAILBOX
- ⊙ GAS METER
- ⊙ HANDICAP
- FOUND IRON ROD
- FOUND IRON PIPE
- ▭ UNDERGROUND CABLE MARKER
- ⊙ SET MONUMENTS BY TERAN GROUP
- ⊙ PARKING METER
- ▭ PROPERTY LINE
- PL VOL. PAGE
- PG. H.C.C.F. HARRIS COUNTY CLERK'S FILE
- H.C.F.C.D. HARRIS COUNTY FLOOD CONTROL DISTRICT
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KEY NOTES

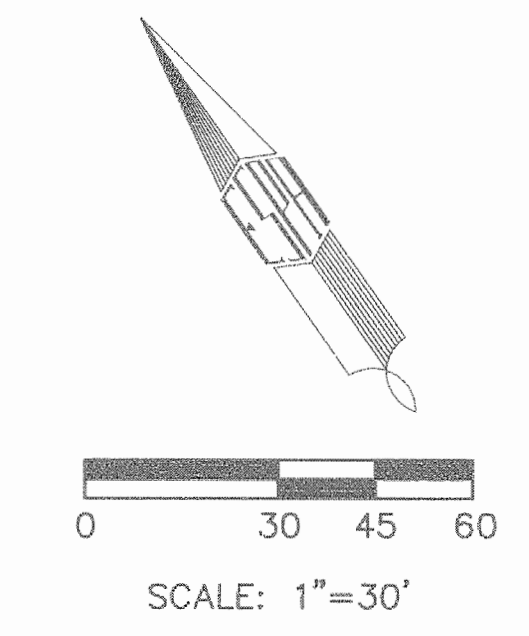
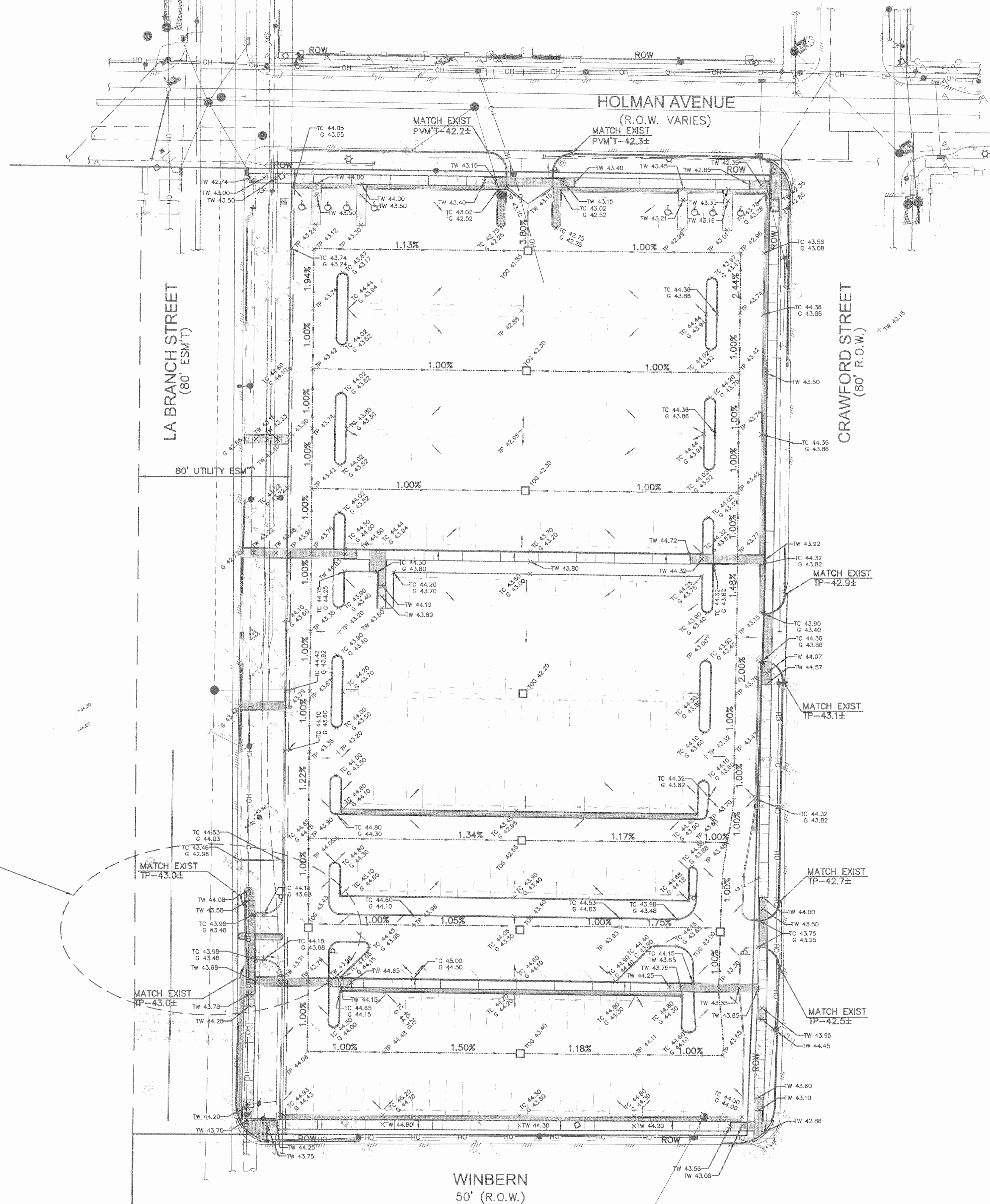
- ① PROP 2 1/2" ASPHALT PAVEMENT; REF SHT C12.0-A6
- ② PROP 7" CONC APRON DRIVEWAY; REF SHT C12.1
- ③ PROP 4" WIDE CONC SIDEWALK; REF SHT C12.0-A10
- ④ PROP 5" WIDE CONC SIDEWALK; C12.0-A10
- ⑤ EXIST CONC CURB TO REMAIN
- ⑥ PROP ADA HANDICAP RAMP; REF SHT C12.0-A4
- ⑦ PROP 6" CONC CURB; REF SHT C12.0-A9
- ⑧ PROP TYPE "A" AREA INLET; REF C12.0-A2
- ⑨ NOT USED
- ⑩ PROP 1 FT SAWCUT
- ⑪ PROP GRASS/LANDSCAPE AREA
- ⑫ PROP STOP SIGN-R1-1
- ⑬ RE-INSTALL EXIST PARKING METERS
- ⑭ PROP SIDEWALK CONC PAVERS; REF SHT C12.0-A12
- ⑮ PROP CONCRETE WHEEL STOP; REF SHT C12.0-A7
- ⑯ PROP BLACK STAR GRAVEL; REF SHT C12.0-A5
- ⑰ PROP PAVEMENT STRIPING
- ⑱ PROP CONC CURB AND GUTTER FOR MISSING CURB AND GUTTER; REF SHT C12.0-A8
- ⑲ PROP LIGHT POLE
- ⑳ PROP REFLECTORIZED 4" WHITE SOLID PAVEMENT MARKING
- ㉑ COORDINATE WITH CENTERPOINT ENERGY FOR REMOVAL AND RELOCATION EXISTING POWER POLES
- ㉒ RELOCATE EXISTING TRAFFIC SIGNAL CONTROL BOX. CONTRACTOR TO COORDINATE WITH THE CITY OF HOUSTON.
- ㉓ RELOCATE EXISTING TRAFFIC SIGNAL POLE. CONTRACTOR TO COORDINATE WITH THE CITY OF HOUSTON.
- ㉔ PROP COH CURB RAMP DETAIL; REF SHT C12.0-A13

NOTE:
CURB DIMENSIONS AND RADII SHOWN REFER TO FACE OF CURB.

SEE INSERT BELOW



INSERT
SCALE: 1"=20'



BENCHMARK:

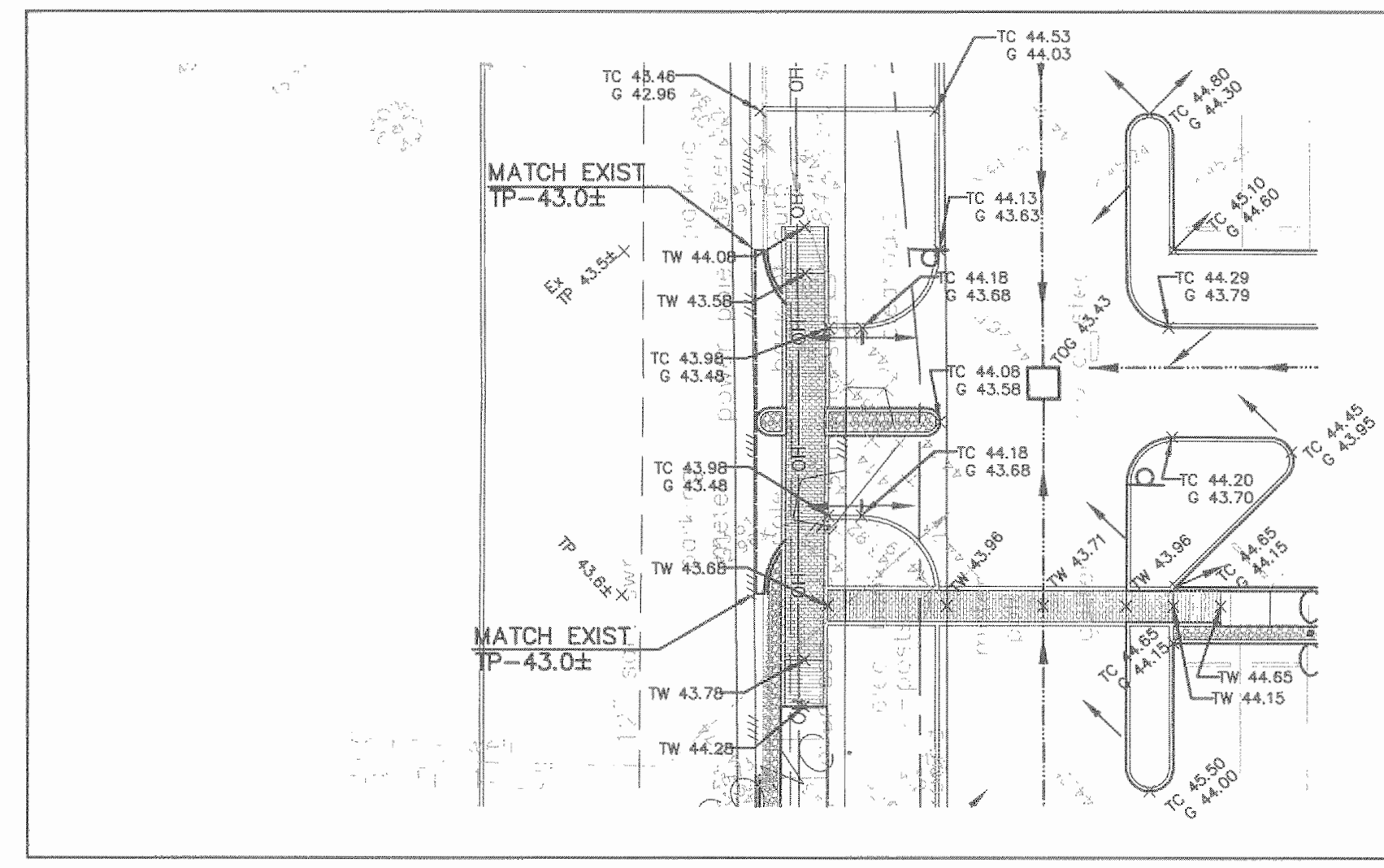
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NOTE:
ALL SIDEWALKS AND WALKWAYS SHALL HAVE A 2% MAXIMUM CROSS SLOPE.

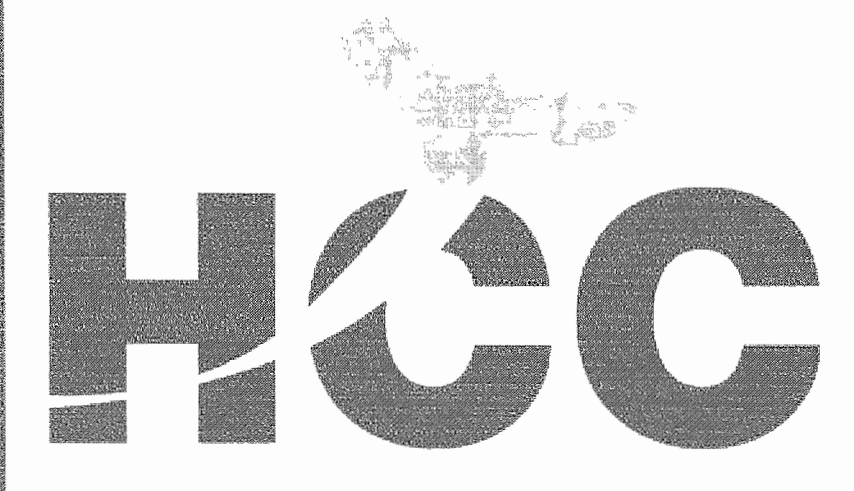
LEGEND:

- PROP AREA INLET
- TW TOP OF WALK
- TP TOP OF PAVEMENT
- TC TOP OF CURB
- TOG TOP OF GRATE
- G GUTTER
- PROP TYPE "A" GRATE INLET
- PROP ELEVATIONS
- EXIST STM SWR MH
- EXIST TYPE "A" INLET
- EXIST SAN SWR MH
- POWER POLE
- B OR BB INLET
- POST
- FIRE DEPARTMENT CONNECTIONS
- ▭ BUILDING
- ▭ WOOD FENCE
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- ④ UNABLE TO LOCATE ANY UNDERGROUND LINE

SEE DETAIL "A"

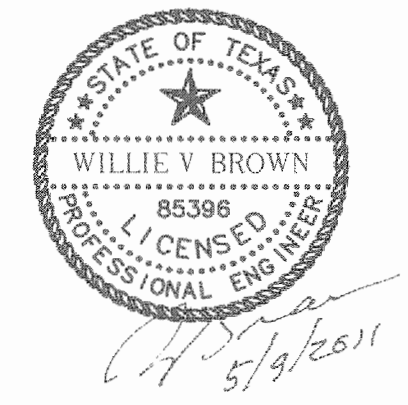


DETAIL "A"
SCALE: 1"=20'



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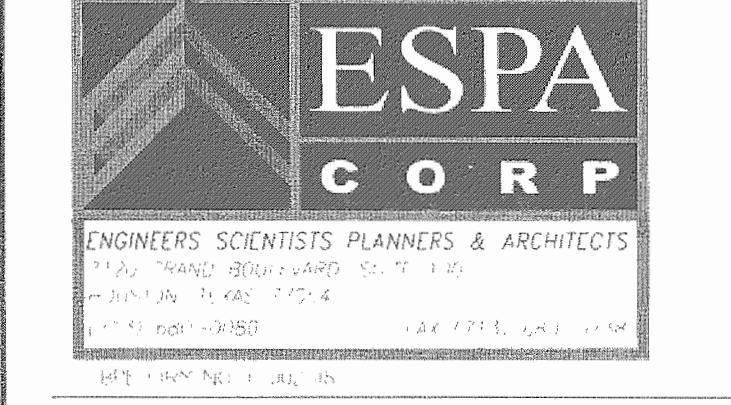
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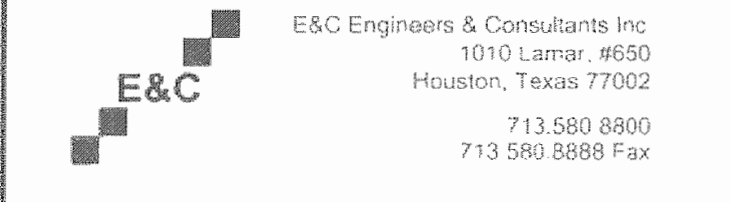
REV.	DESCRIPTION	DATE	BY
1	ISSUED FOR BID & CONSTRUCTION	05/09/11	JA

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281-759-1515 ph

STUDIO OF RICHARD JETER MFA
LIGHTING DESIGNER
1940S PEBBLE BEND DR
HOUSTON, TEXAS 77068



**Central Campus
Parking Lot Improvements**
1300 Holman Street
Houston, TX 77004

Contract No.: A/E Project No.:
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GRADING PLAN

Scale: 1"=30'

C-7.0

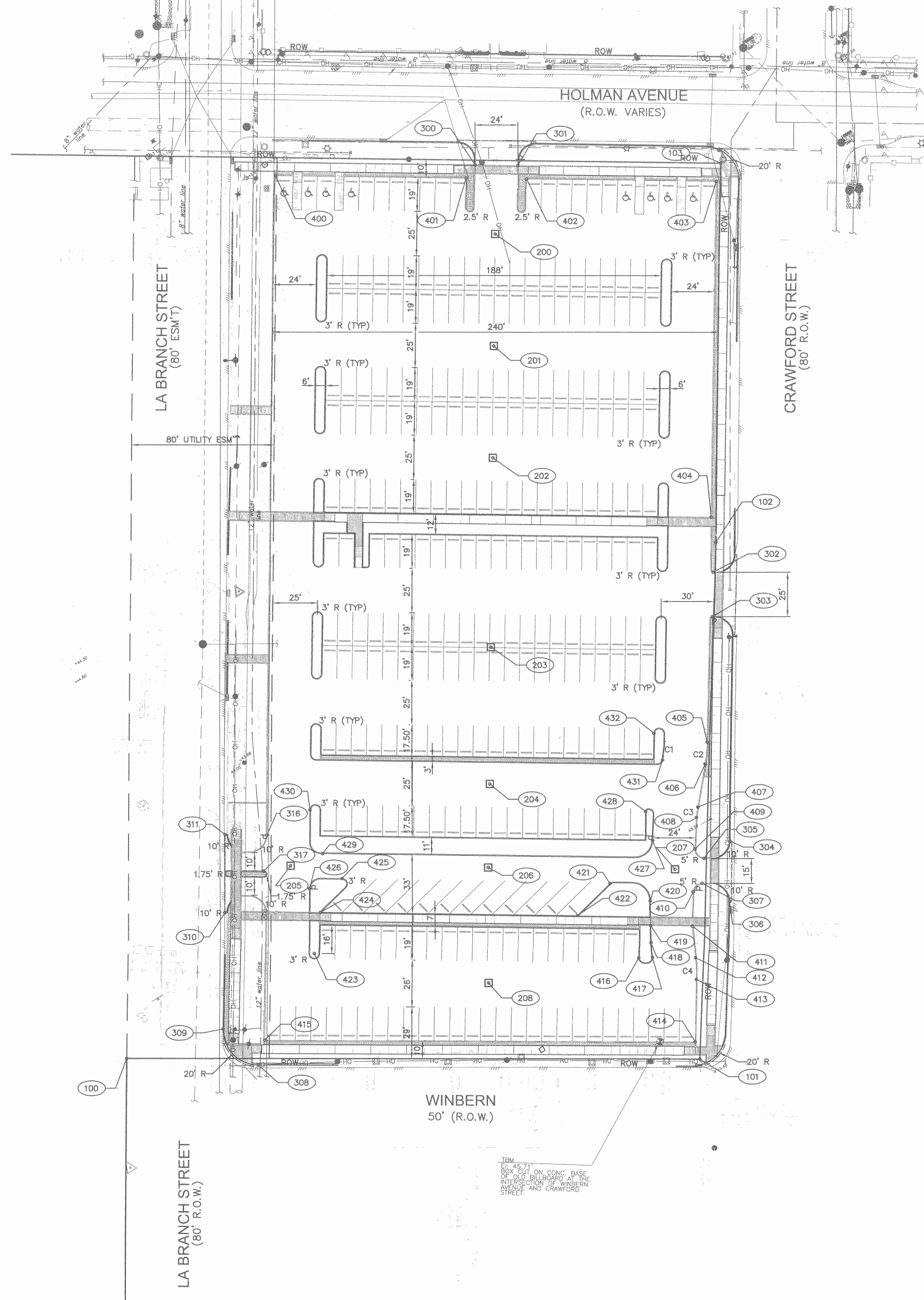
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POINT NO.	X COORDINATE	Y COORDINATE	DESCRIPTION
100	3118989.29	13834569.06	PROPERTY CORNER
101	3119261.45	13834397.32	PROPERTY CORNER
102	3119423.95	13834637.99	PROPERTY CORNER
103	3119540.09	13834817.66	PROPERTY CORNER

200	3119411.52	13834851.47	TYPE "A" INLET
201	3119377.30	13834798.52	TYPE "A" INLET
202	3119343.25	13834745.52	TYPE "A" INLET
203	3119285.52	13834656.06	TYPE "A" INLET
204	3119243.94	13834591.25	TYPE "A" INLET
205	3119124.83	13834611.82	TYPE "A" INLET
206	3119217.88	13834552.12	TYPE "A" INLET
207	3119306.45	13834495.30	TYPE "A" INLET
208	3119183.46	13834497.10	TYPE "A" INLET

300	3119422.47	13834890.45	DRIVEWAY
301	3119442.62	13834877.42	DRIVEWAY
302	3119413.89	13834625.06	DRIVEWAY
303	3119400.25	13834604.11	DRIVEWAY
304	3119341.16	13834492.20	DRIVEWAY
305	3119323.49	13834491.78	DRIVEWAY
306	3119322.64	13834463.63	DRIVEWAY
307	3119315.17	13834480.49	DRIVEWAY
308	3119049.84	13834526.51	DRIVEWAY
309	3119043.77	13834554.28	DRIVEWAY
310	3119079.29	13834609.24	DRIVEWAY
311	3119103.11	13834646.24	DRIVEWAY
312	NOT USED		
313	NOT USED		
314	NOT USED		
315	NOT USED		
316	3119122.98	13834633.37	DRIVEWAY
317	3119110.50	13834617.30	DRIVEWAY

400	3119324.60	13834944.88	PARKING LOT
401	3119414.21	13834886.89	PARKING LOT
402	3119442.74	13834968.40	PARKING LOT
403	3119532.59	13834810.26	PARKING LOT
404	3119429.52	13834651.84	PARKING LOT
405	3119360.18	13834545.97	PARKING LOT
406	3119352.69	13834536.24	PARKING LOT
407	3119336.19	13834517.90	PARKING LOT
408	3119332.45	13834513.44	PARKING LOT
409	3119322.12	13834498.87	PARKING LOT
410	3119308.35	13834479.16	PARKING LOT
411	3119297.52	13834463.12	PARKING LOT
412	3119284.47	13834457.37	PARKING LOT
413	3119283.51	13834436.48	PARKING LOT
414	3119264.42	13834406.99	PARKING LOT
415	3119060.27	13834536.48	PARKING LOT
416	3119262.53	13834464.05	PARKING LOT
417	3119269.23	13834460.18	PARKING LOT
418	3119272.79	13834467.67	PARKING LOT
419	3119277.81	13834475.88	PARKING LOT
420	3119285.01	13834487.66	PARKING LOT
421	3119271.13	13834507.95	PARKING LOT
422	3119245.84	13834502.53	PARKING LOT
423	3119109.62	13834563.04	PARKING LOT
424	3119124.96	13834580.79	PARKING LOT
425	3119145.38	13834590.40	PARKING LOT
426	3119126.88	13834595.23	PARKING LOT
427	3119304.52	13834515.54	PARKING LOT
428	3119309.97	13834531.51	PARKING LOT
429	3119142.78	13834608.76	PARKING LOT
430	3119151.06	13834632.58	PARKING LOT
431	3119333.54	13834550.83	PARKING LOT
432	3119337.50	13834566.12	PARKING LOT

CURVE DATA				
CURVE NO.	R	L	D	A
C1	56'	8.60'	102.31'	8°47'56"
C2	80'	12.29'	71.62'	8°48'07"
C3	39'	5.83'	149.91'	8°33'54"
C4	80'	12.28'	71.62'	8°47'42"



- LEGEND:**
- (XXX) REFERENCE NUMBER
 - PROP AREA INLET
 - EXIST STM SWR MH
 - EXIST TYPE "A" INLET
 - EXIST SAN SWR MH
 - POWER POLE
 - B OR BB INLET
 - POST
 - ⚡ FIRE DEPARTMENT CONNECTIONS
 - ▭ BUILDING
 - ▭ WOOD FENCE
 - CHAIN LINK FENCE
 - OVERHEAD LINE
 - UNDERGROUND LINE
 - Ⓜ MAILBOX
 - Ⓜ GAS METER
 - HC HANDICAP
 - FOUND IRON ROD
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 - UNDERGROUND CABLE MARKER
 - SET MONUMENTS BY TERAN GROUP
 - Ⓜ PARKING METER
 - PL PROPERTY LINE
 - VOL. VOLUME
 - PC. PAGE
 - H.C.C.F. HARRIS COUNTY CLERK'S FILE
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 - B.L. BUILDING LINE
 - U.E. UTILITY EASEMENT
 - FF FINISH FLOOR
 - (R) FROM RECORD DRAWINGS
 - (1) ELECTRICAL UNDERGROUND CABLES WERE UNABLE TO BE LOCATED
 - (2) UNDERGROUND CABLES TO BUILDING, UNABLE TO LOCATE
 - (3) UNDERGROUND WATER LINES WERE UNABLE TO BE LOCATED
 - (4) UNABLE TO LOCATE ANY UNDERGROUND LINE

Houston Community College

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Issue/Revision:

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR BID & CONSTRUCTION	05/09/11	JA

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ENGINEERS SCIENTISTS PLANNERS & ARCHITECTS
21500 Project Blvd., Bldg. 4, #413
Katy, Texas 77450
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Central Campus
Parking Lot Improvements

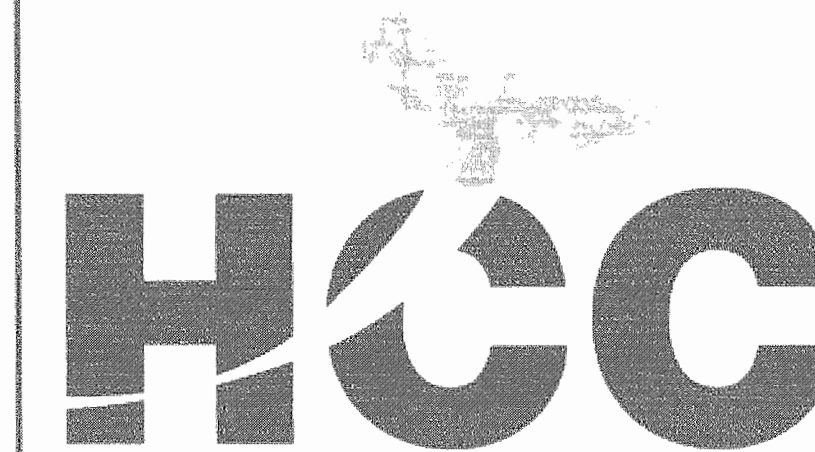
1300 Holman Street
Houston, TX 77004

Contract No.: A/E Project No.:
Drawn By: Date:
Checked By: Date:
Approved By: Date:

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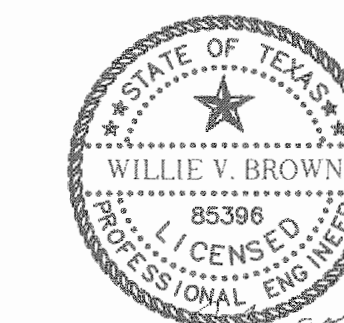
HORIZONTAL CONTROL

Scale: 1"=30'



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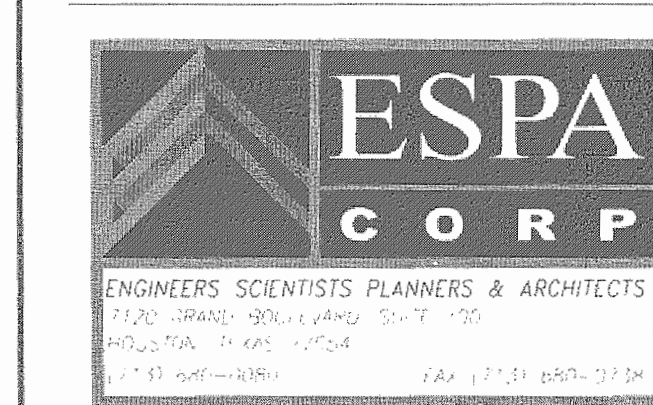


07/25/2011

Issue/Revision:

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**Central Campus
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1300 Holman Street
Houston, TX 77004

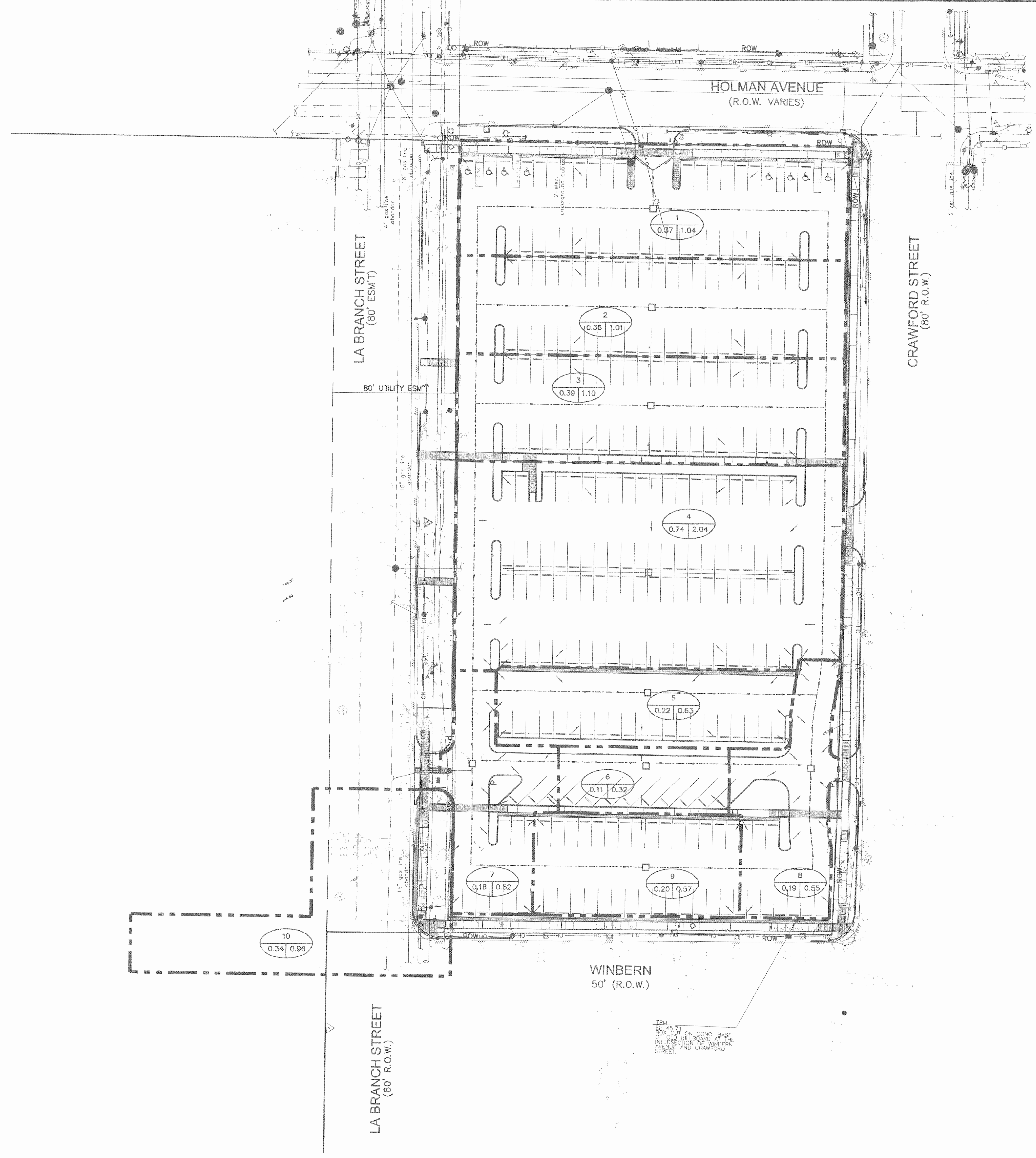
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DRAINAGE AREA MAP

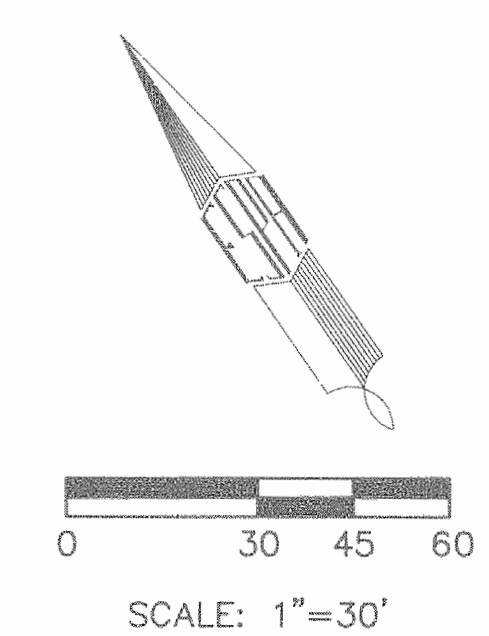
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C-9.0



BENCHMARK:

- ALL ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD) (2001 ADJ.)
- TEMPORARY BENCHMARK (T.B.M.) - ELEV. 45.71' A BOX CUT ON CONC. BASE OF OLD BILLBOARD AT THE INTERSECTION OF WINBERN AVENUE AND CRAWFORD STREET.
- THE SUBJECT PROPERTY IS LOCATED IN ZONE X ACCORDING TO FEMA FLOOD INSURANCE RATE MAP NO. 48201C0880L, REVISED JUNE 18, 2007

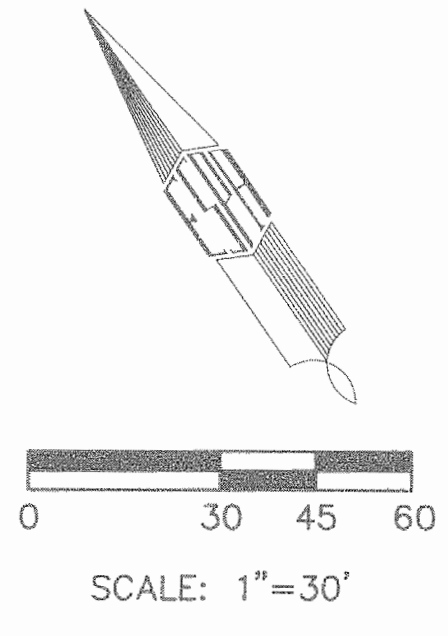
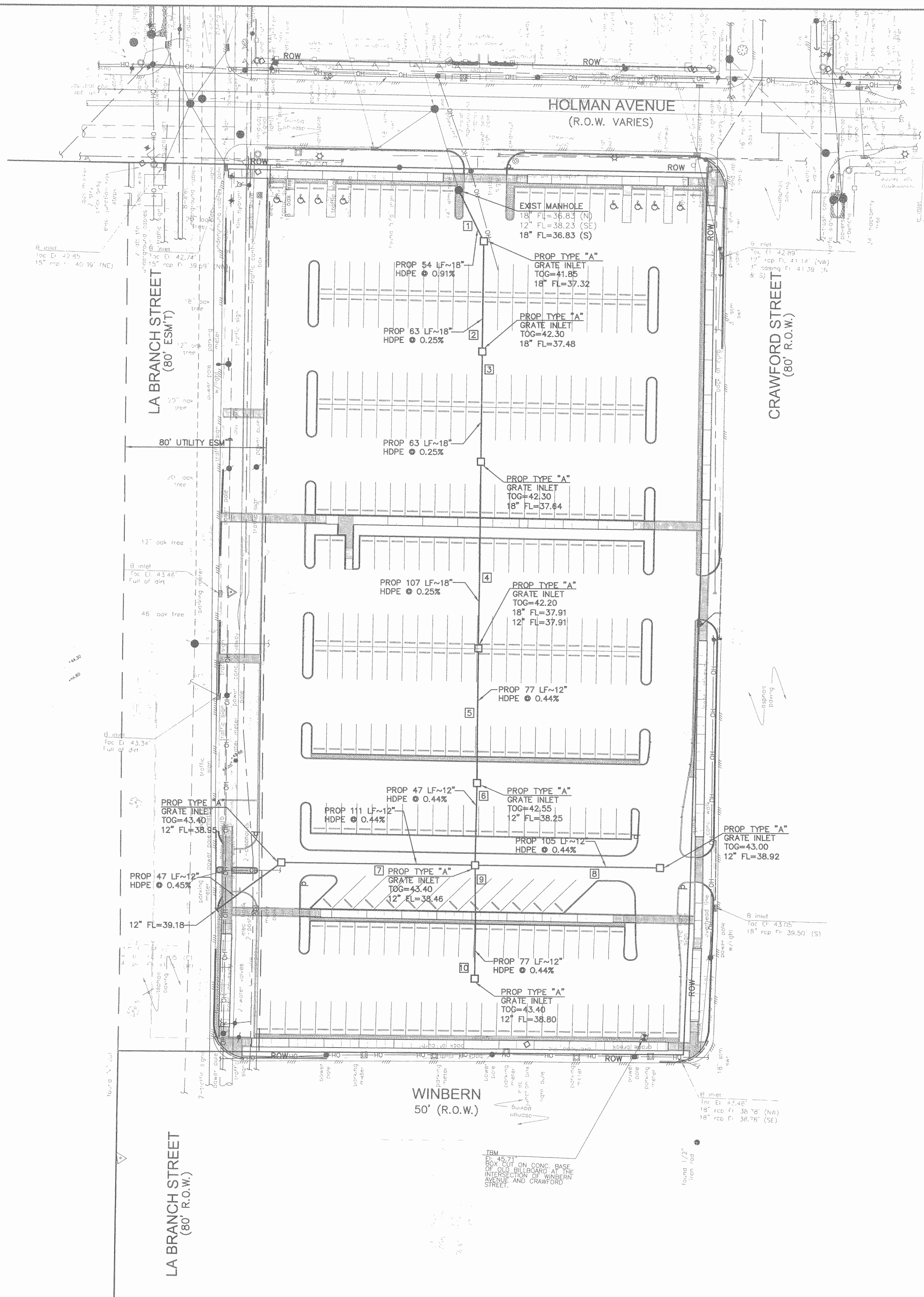


LEGEND

- 1 0.63 1.41 DRAINAGE AREA RUNOFF (CFS) AREA (ACRES)
- DRAINAGE AREA BOUNDARY
- PROP AREA INLET
- EXIST STM SWR MH
- EXIST TYPE "A" INLET
- EXIST SAN SWR MH
- POWER POLE
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- FIRE DEPARTMENT CONNECTIONS
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- ④ UNABLE TO LOCATE ANY UNDERGROUND LINE

DRAINAGE TABLE

Line	ToLine	LineLength (ft)	Incr.Area (ac)	TotalArea (ac)	RunoffCoeff. (C)	IncrC x A	TotalC x A	InletTime (min)	TimeConc (min)	Rnfallint (in/hr)	TotalRunoff (cfs)	AdnlFlow (cfs)	TotalFlow (cfs)	CapacFull (cfs)	Veloc (ft/s)	PipeSize (in)	PipeSlope (%)	Inv ElevUp (ft)	Inv ElevDn (ft)	HGLUp (ft)	HGLDn (ft)
1	Outfall	54	0.37	3.1	0.8	0.3	2.48	23	26.3	3.7	9.29	0	9.29	10	5.38	18	0.91	37.32	36.83	38.69	38.33
2	1	63	0.36	2.73	0.8	0.29	2.18	23	26.1	3.8	8.22	0	8.22	5.29	4.65	18	0.25	37.48	37.32	39.8	39.42
3	2	63	0.39	2.37	0.8	0.31	1.9	23	25.9	3.8	7.17	0	7.17	5.29	4.06	18	0.25	37.64	37.48	40.35	40.05
4	3	107	0.74	1.98	0.8	0.59	1.58	24	25.3	3.8	6.05	0	6.05	5.28	3.42	18	0.25	37.91	37.64	40.9	40.55
5	4	77	0.22	1.24	0.8	0.18	0.99	23	25.1	3.8	3.81	0	3.81	2.37	4	12	0.45	38.25	37.91	41.87	40.99
6	5	47	0.11	1.02	0.8	0.09	0.82	22	24.9	3.9	3.14	0	3.14	2.38	4	12	0.45	38.46	38.25	42.54	42.17
7	6	111	0.18	0.52	0.8	0.14	0.42	22	24	3.9	1.63	0	1.63	2.37	2.08	12	0.44	38.95	38.46	43.51	43.28
8	6	105	0.19	0.19	0.8	0.15	0.15	22	22	4.1	0.62	0	0.62	2.36	0.79	12	0.44	38.92	38.46	43.37	43.34
9	6	77	0.2	0.2	0.8	0.16	0.16	23	23	4	0.64	0	0.64	2.37	0.81	12	0.44	38.8	38.46	43.36	43.34
10	7	83	0.34	0.34	0.8	0.27	0.27	23	23	4	1.09	0	1.09	2.38	1.38	12	0.45	39.32	38.95	43.69	43.62



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 - THE SUBJECT PROPERTY IS LOCATED IN ZONE X ACCORDING TO FEMA FLOOD INSURANCE RATE MAP NO. 48201C0880L, REVISED JUNE 18, 2007

LEGEND:

- PROP AREA INLET
- ① STORM SEWER LINE NUMBER
- EXIST STM SWR MH
- EXIST TYPE "A" INLET
- EXIST SAN SWR MH
- POWER POLE
- B OR BB INLET
- POST
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- ▭ BUILDING
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DETENTION CALCULATIONS

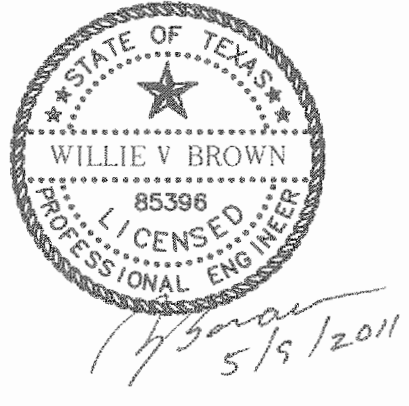
TOTAL DEVELOPED AREA=2.788 AC
 EXISTING IMPERVIOUS COVER=2.772 AC
 PROPOSED IMPERVIOUS COVER=2.348 AC

THE IMPERVIOUS COVER IS BEING REDUCED BY 0.424 ACRES. THEREFORE, DETENTION IS NOT WARRANTED FOR THE PROPOSED PARKING LOT.



Houston Community College

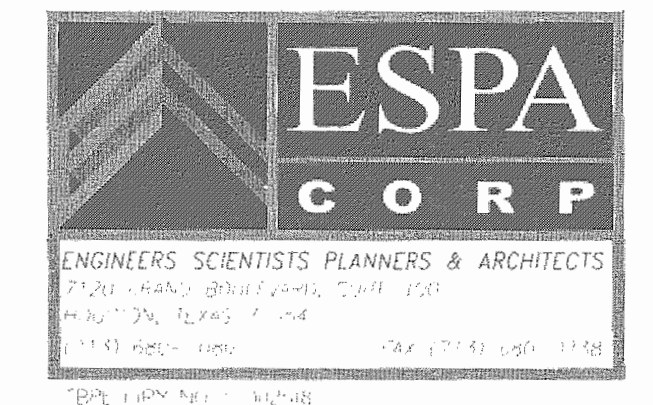
HCC - Construction Department
 3100 Main, 12th Floor
 Houston, Texas, 77002
 Voice: 713.718.5168
 reynaldo.pragia@hccs.edu



Issue/Revision:

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR BID & CONSTRUCTION	05/08/11	JA

Hewelyn-davies sahani
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 Houston, TX 77056
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 21500 Provingo Blvd, Bldg. 4, #413 Katy, Texas 77450
 281-753-1513 ph 281-759-1723 fx

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 1305 PEBBLE BEND DR.
 HOUSTON, TEXAS 77060

E&C Engineers & Consultants Inc.
 1010 Lamar, #650
 Houston, Texas 77002
 713.580.8800
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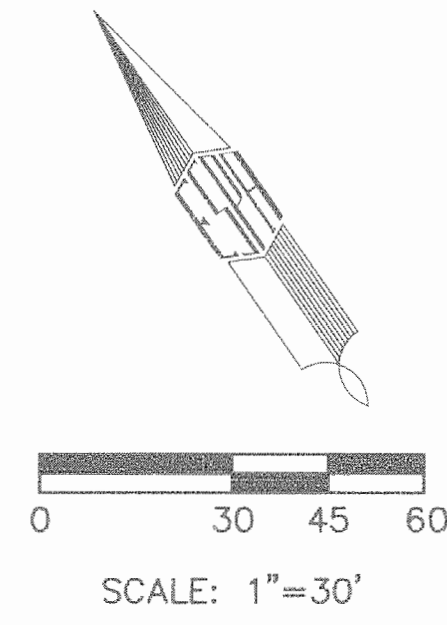
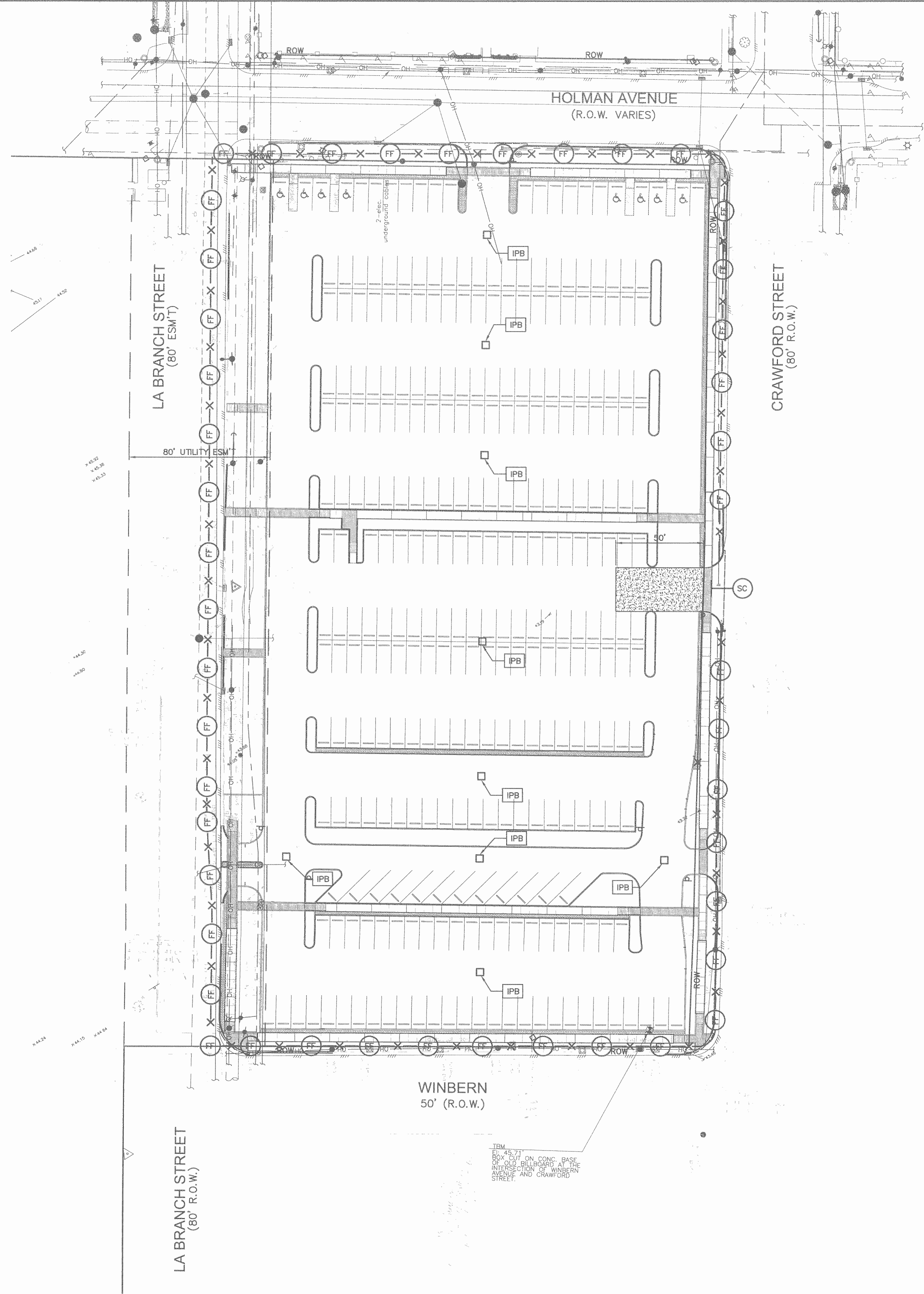
**Central Campus
 Parking Lot Improvements**
 1300 Holman Street
 Houston, TX 77004

Contract No.: A/E Project No.:
 Drawn By: Date:
 Checked By: Date:
 Approved By: Date:

Ownership of Instruments of Service:
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STORM SEWER LAYOUT

Scale: 1"=30'



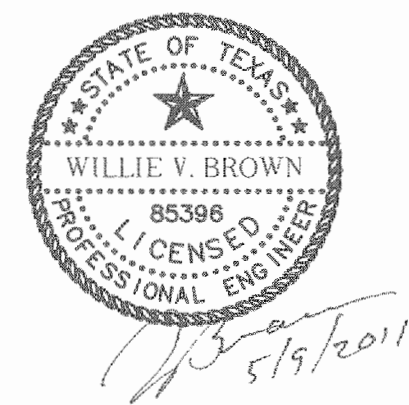
LEGEND:

- COARSE AGGREGATE PAD
- STABILIZED CONSTRUCTION EXIT
- FILTER FABRIC FENCE
- REINFORCED FILTER FABRIC BARRIER
- INLET PROTECTION BARRIER
- PROP AREA INLET
- EXIST STM SWR MH
- EXIST TYPE "A" INLET
- EXIST SAN SWR MH
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- PAGE
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- FROM RECORD DRAWINGS
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- UNDERGROUND WATER LINES WERE UNABLE



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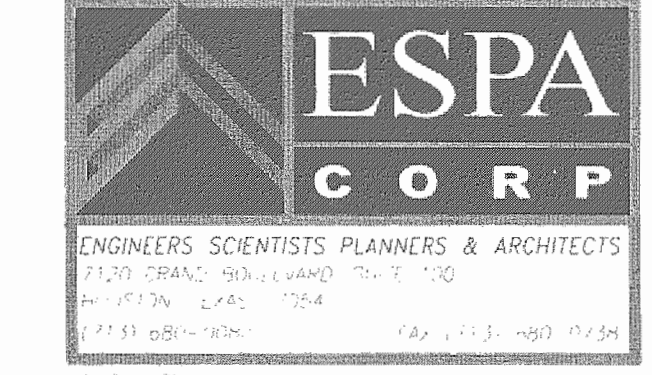
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Parking Lot Improvements**
1300 Holman Street
Houston, TX 77004

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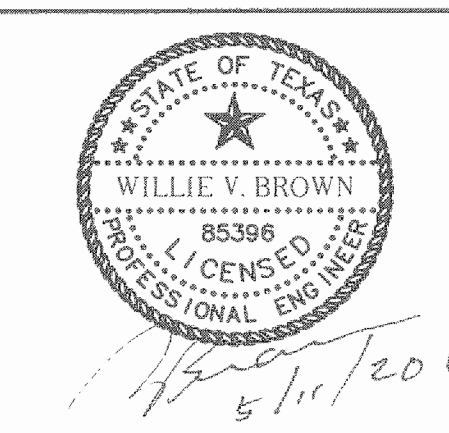
STORM WATER POLLUTION PREVENTION PLAN

Scale: 1"=30'



Houston Community College

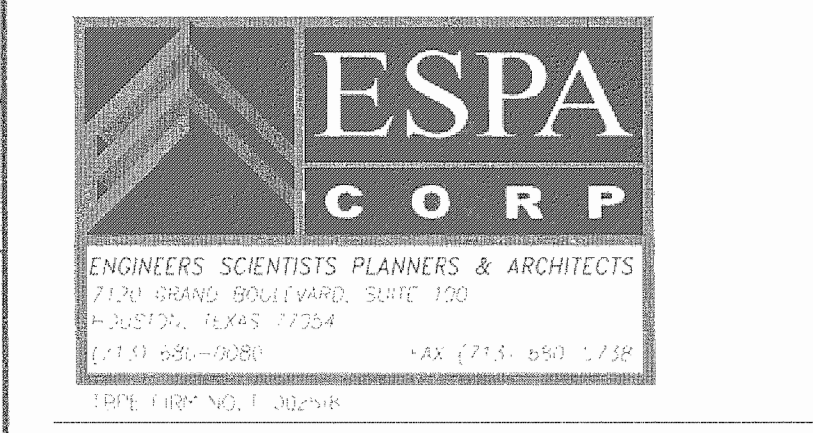
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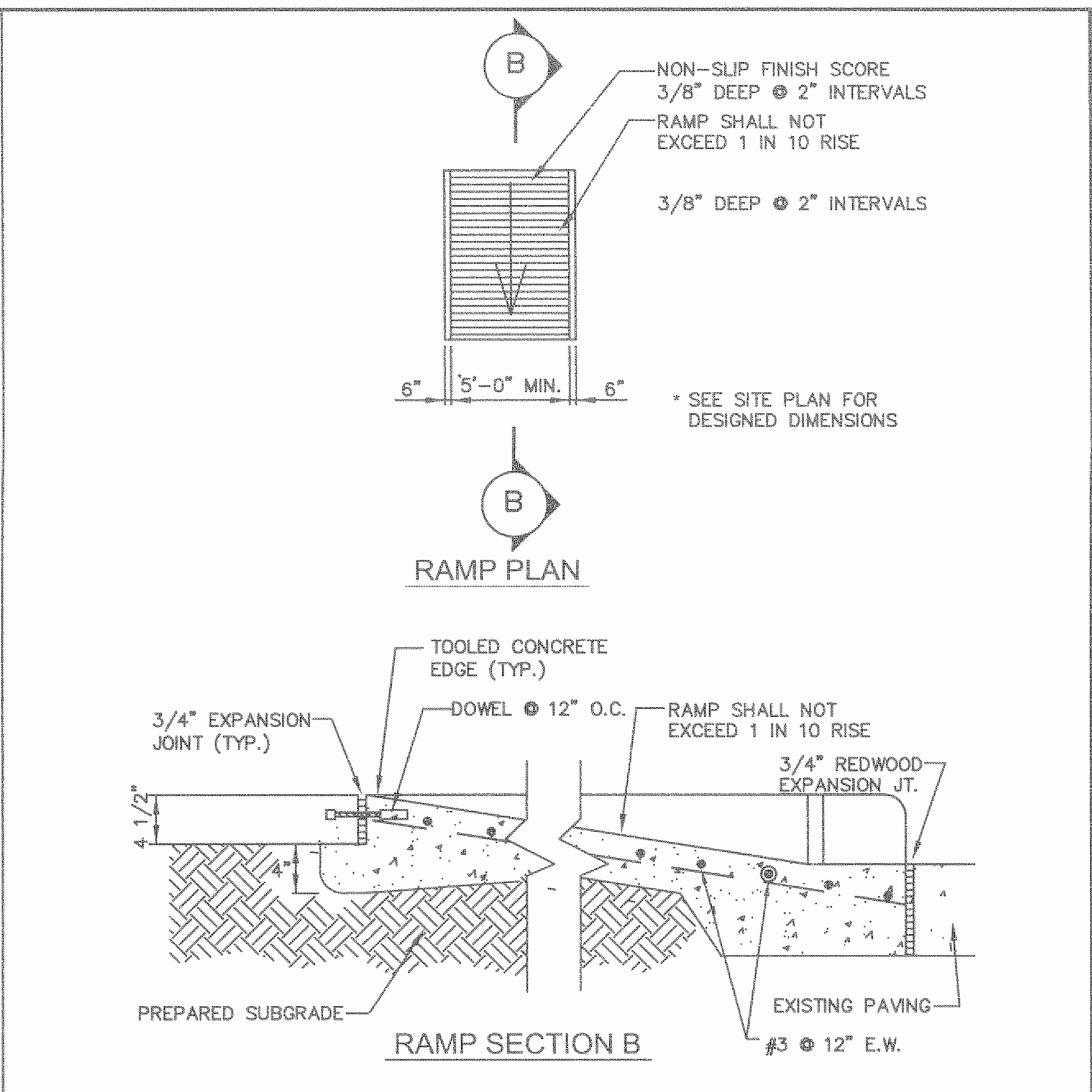
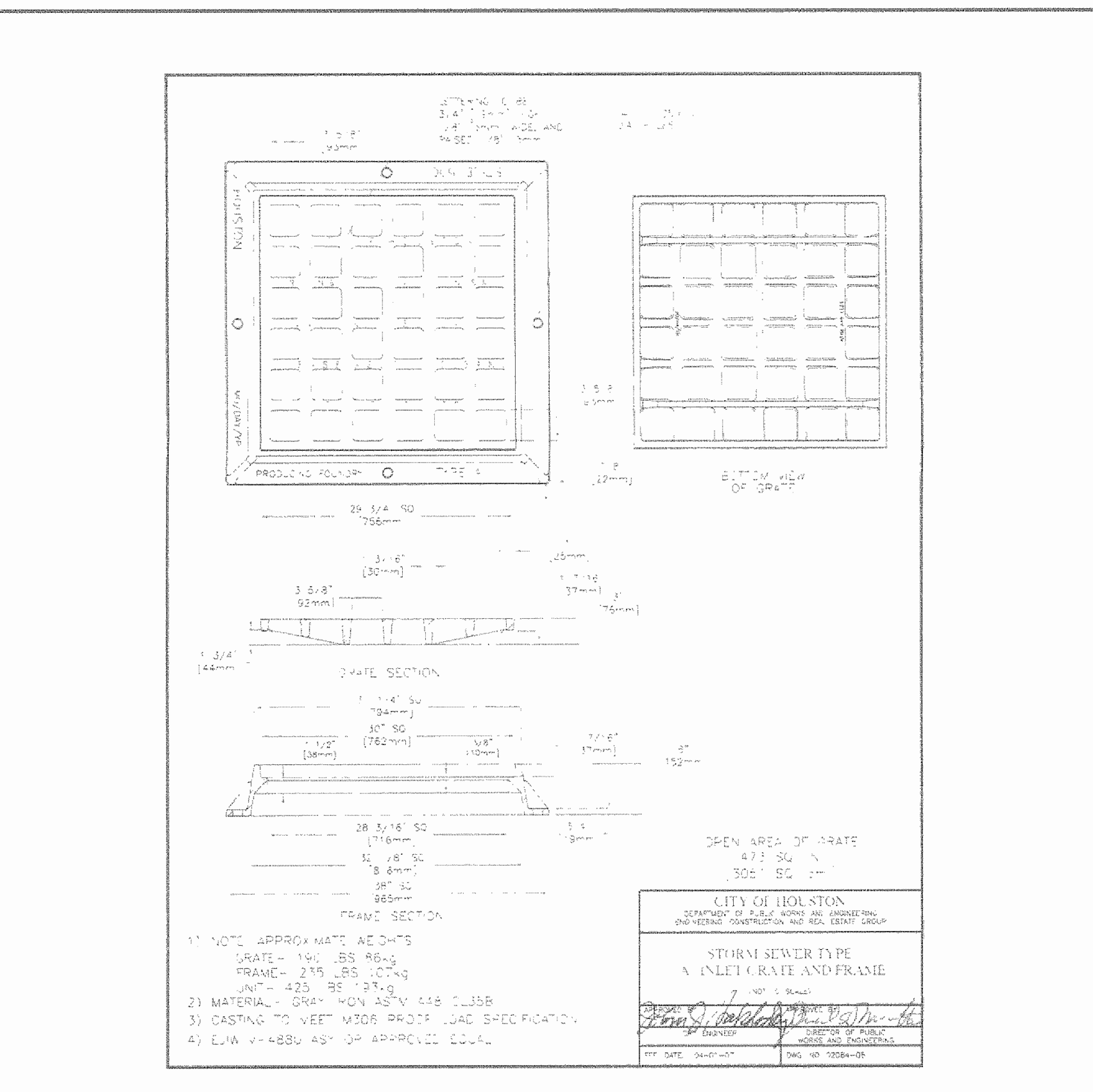
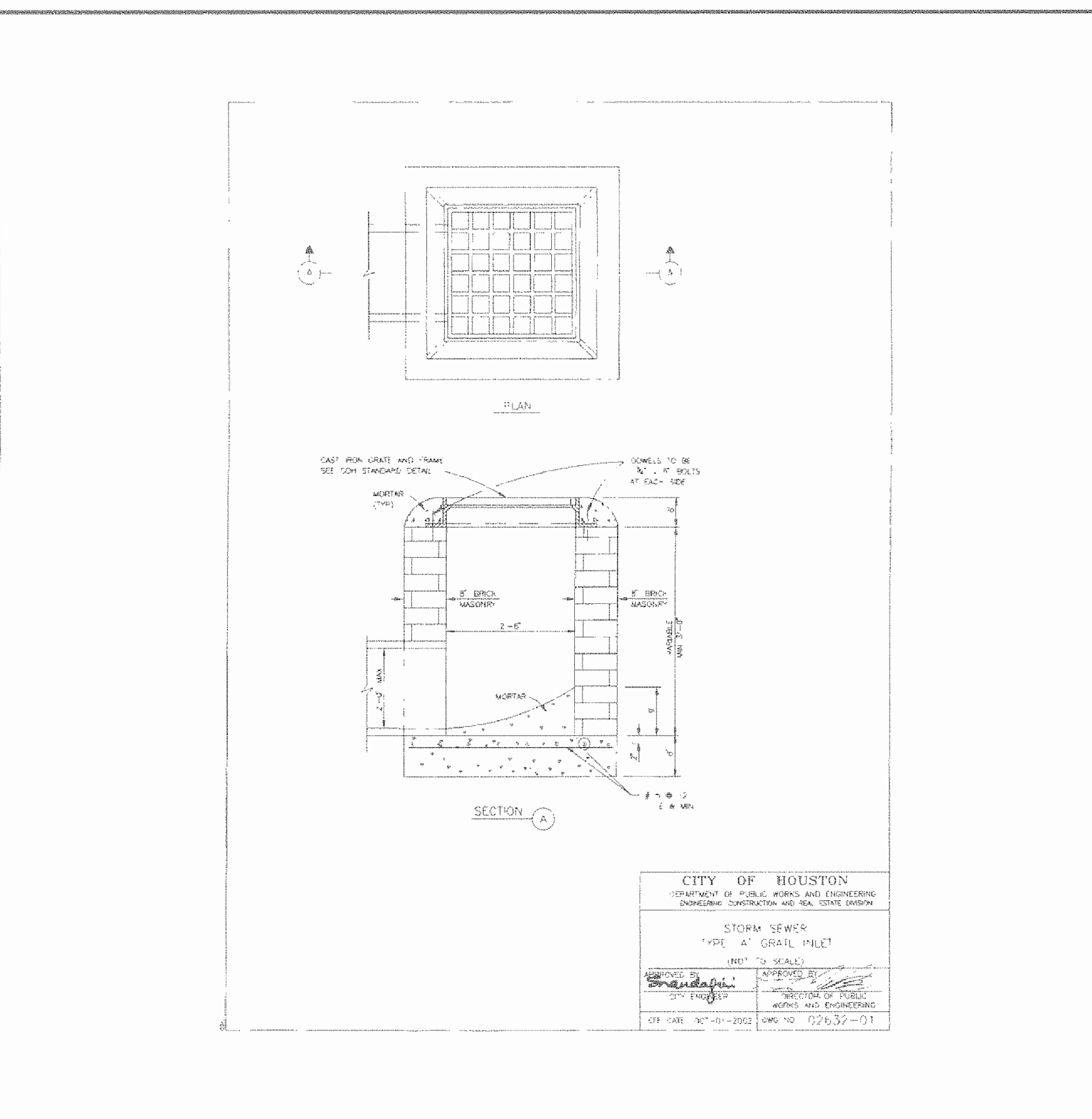
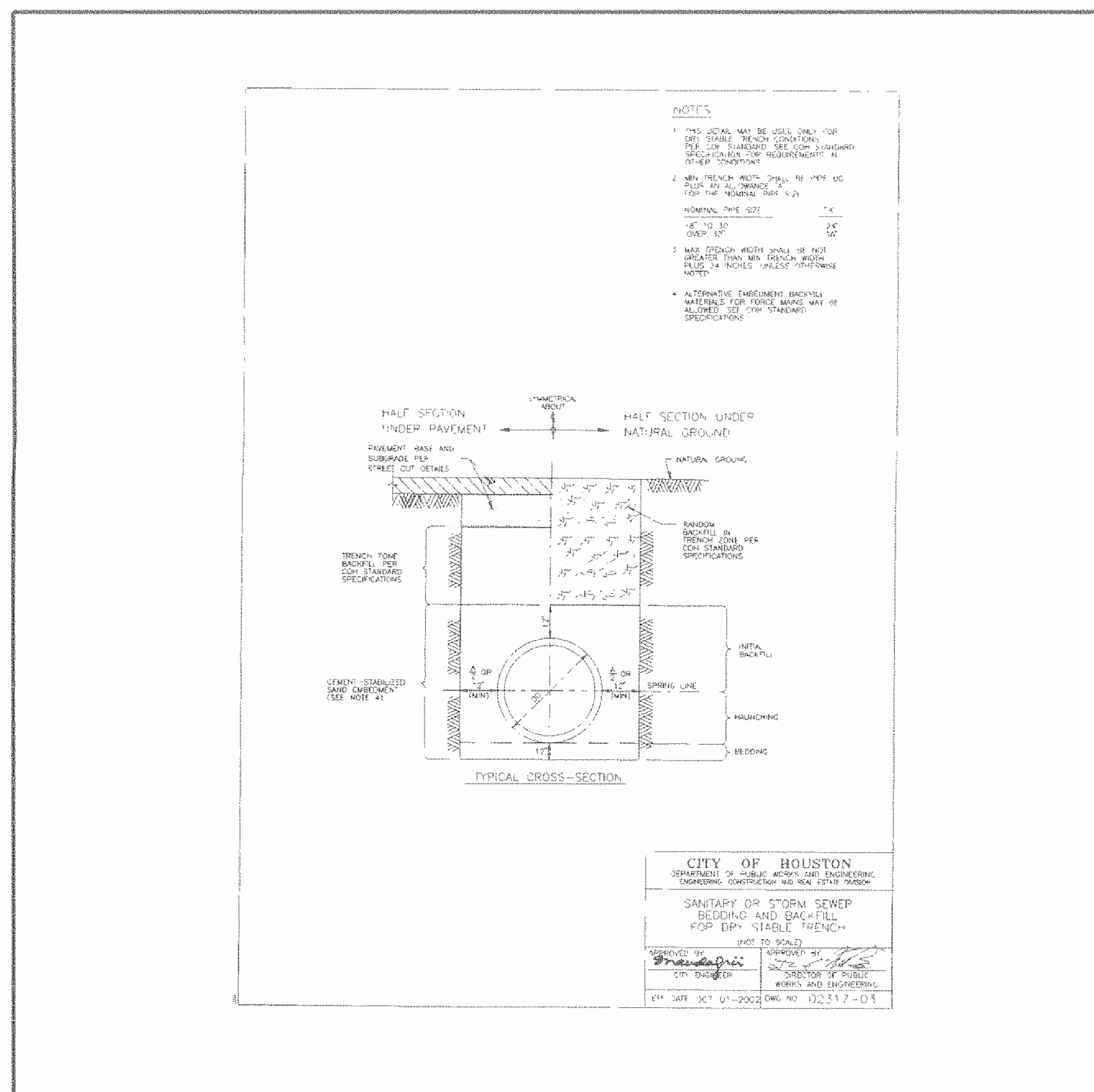
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**MISCELLANEOUS
DETAILS**

Scale: N.T.S.

C-12.0

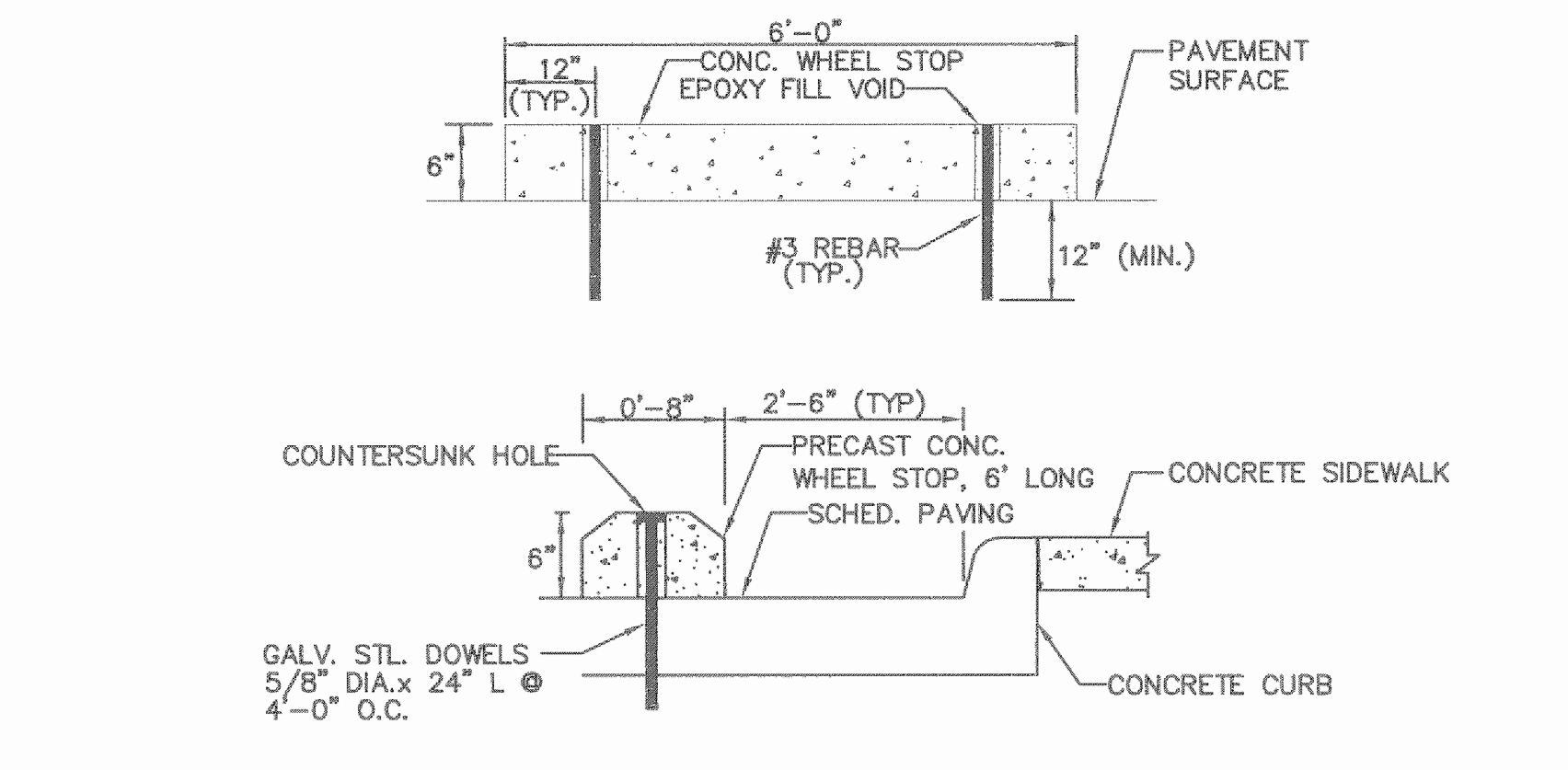
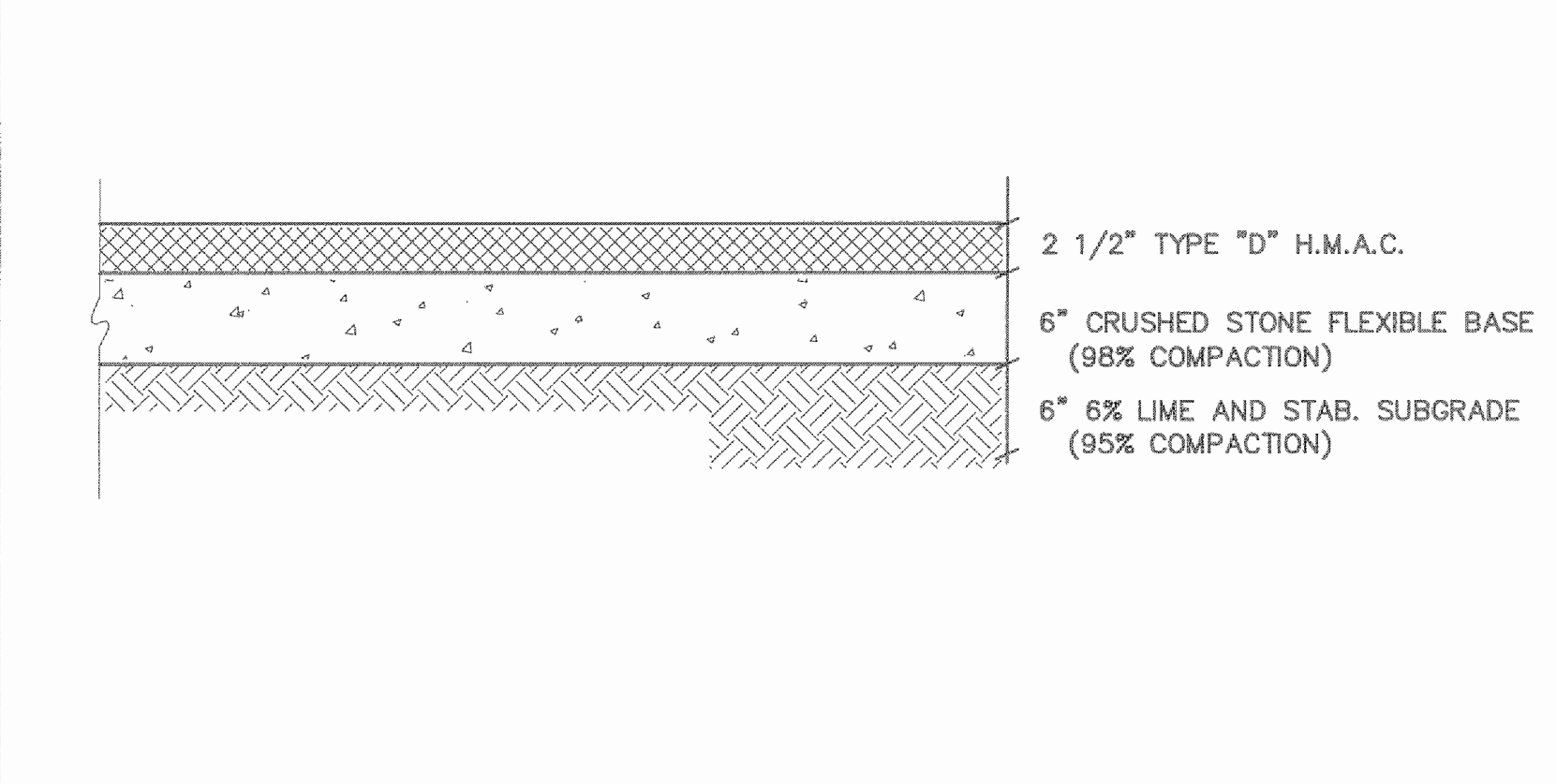
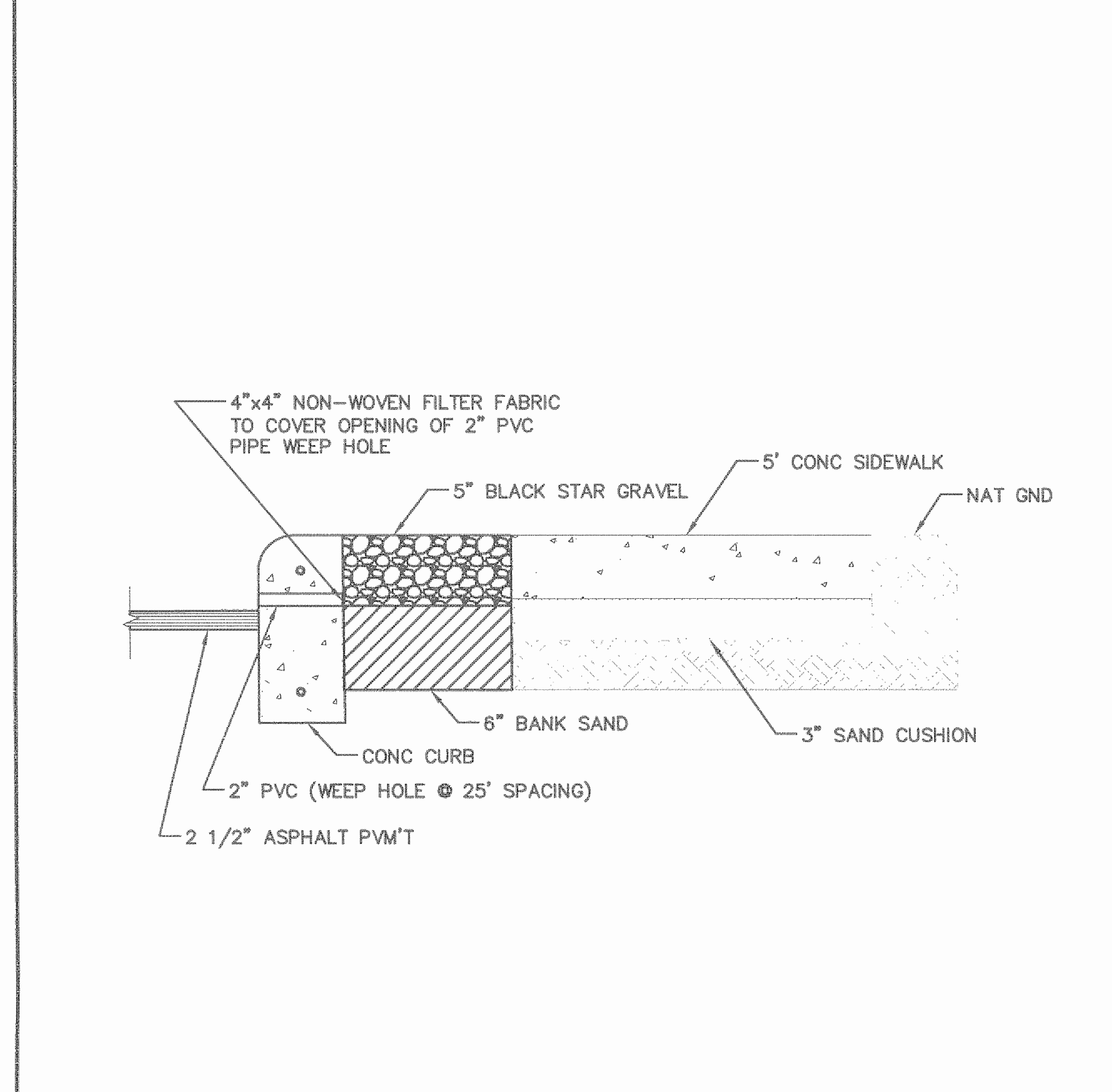


A1 SANITARY OR STORM SEWER BEDDING AND BACKFILL FOR DRY STABLE TRENCH NOT TO SCALE

A2 STORM SEWER TYPE "A" INLET GRATE AND FRAME NOT TO SCALE

A3 STORM SEWER TYPE "A" INLET GRATE AND FRAME NOT TO SCALE

A4 CURB RAMP DETAIL NOT TO SCALE



A6 ASPHALT PAVEMENT SECTION NOT TO SCALE

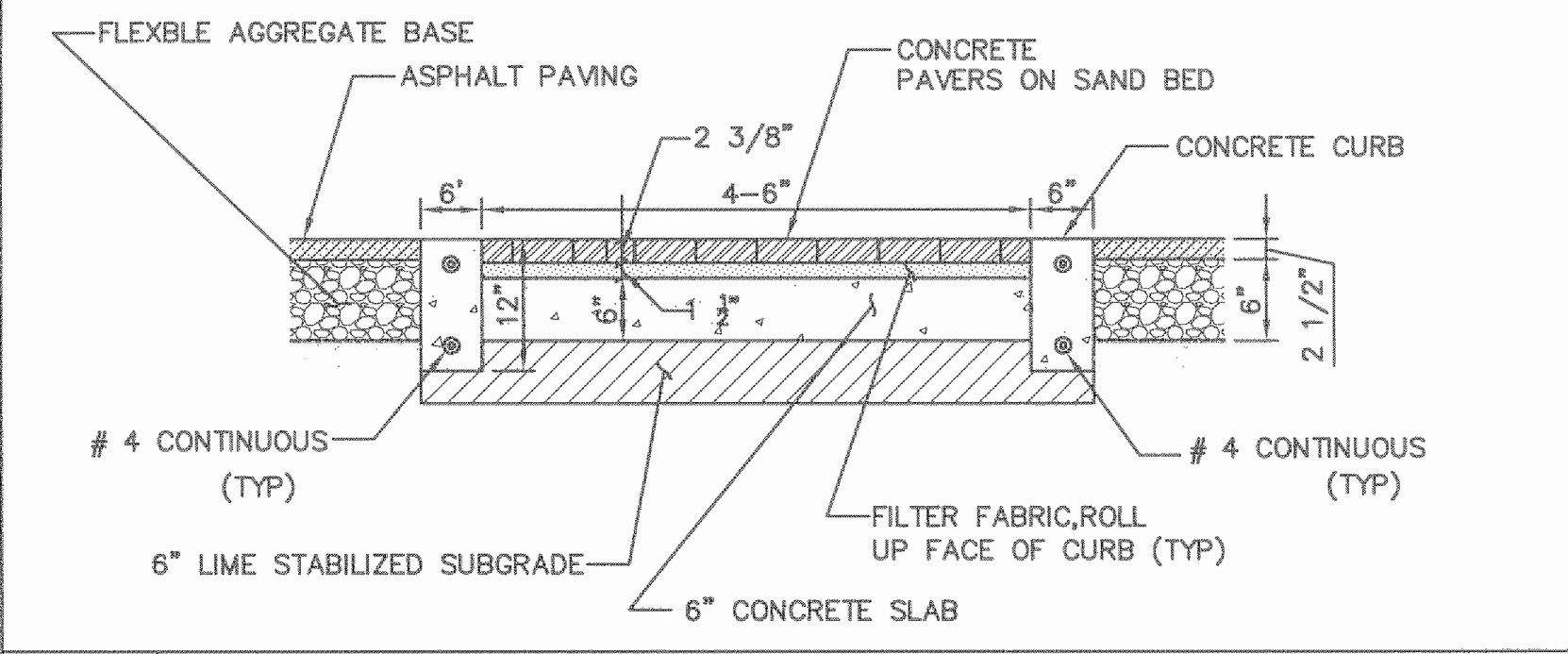
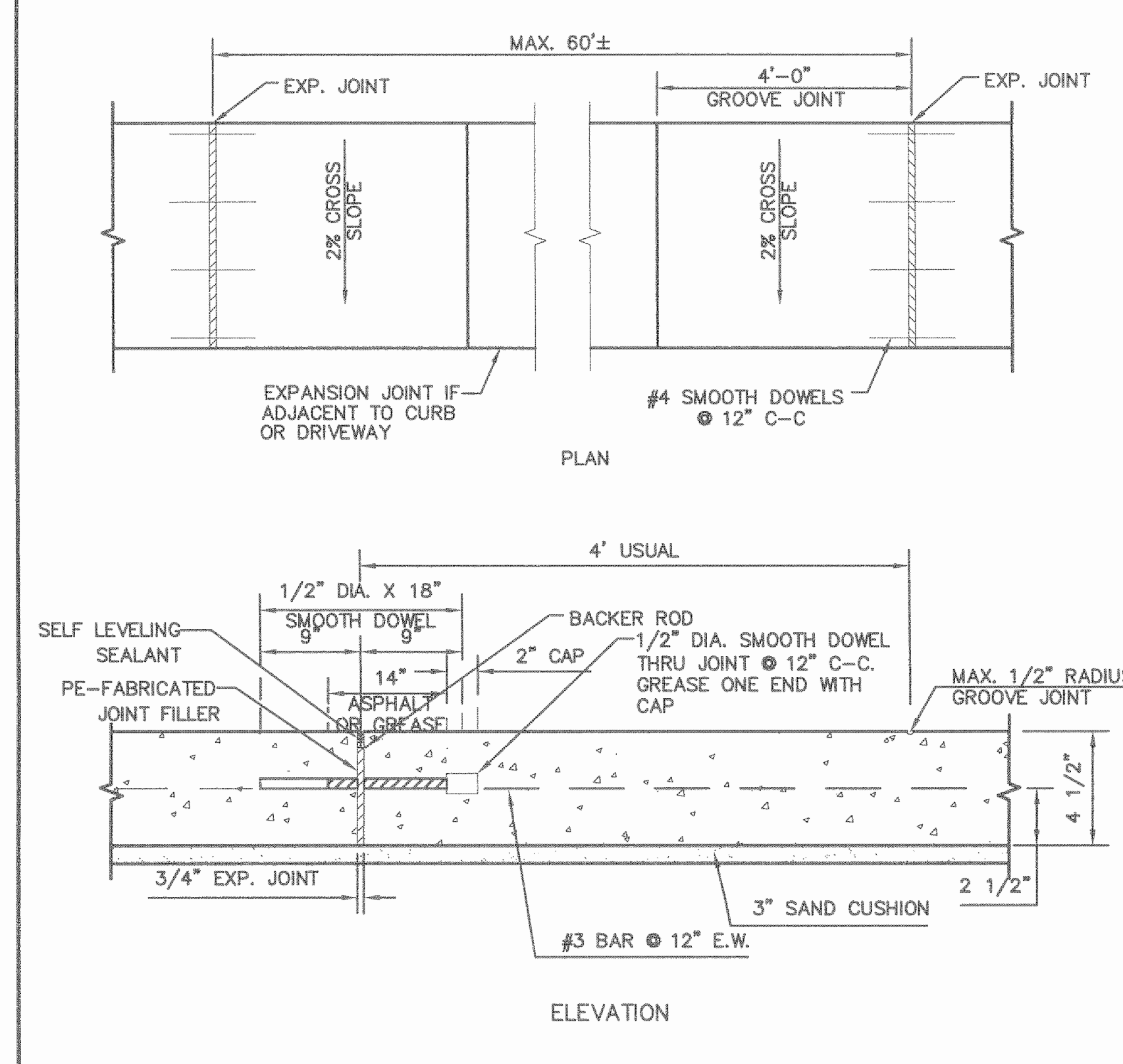
A7 PRECAST CONCRETE WHEEL STOP NOT TO SCALE

A14 NOT USED NOT TO SCALE

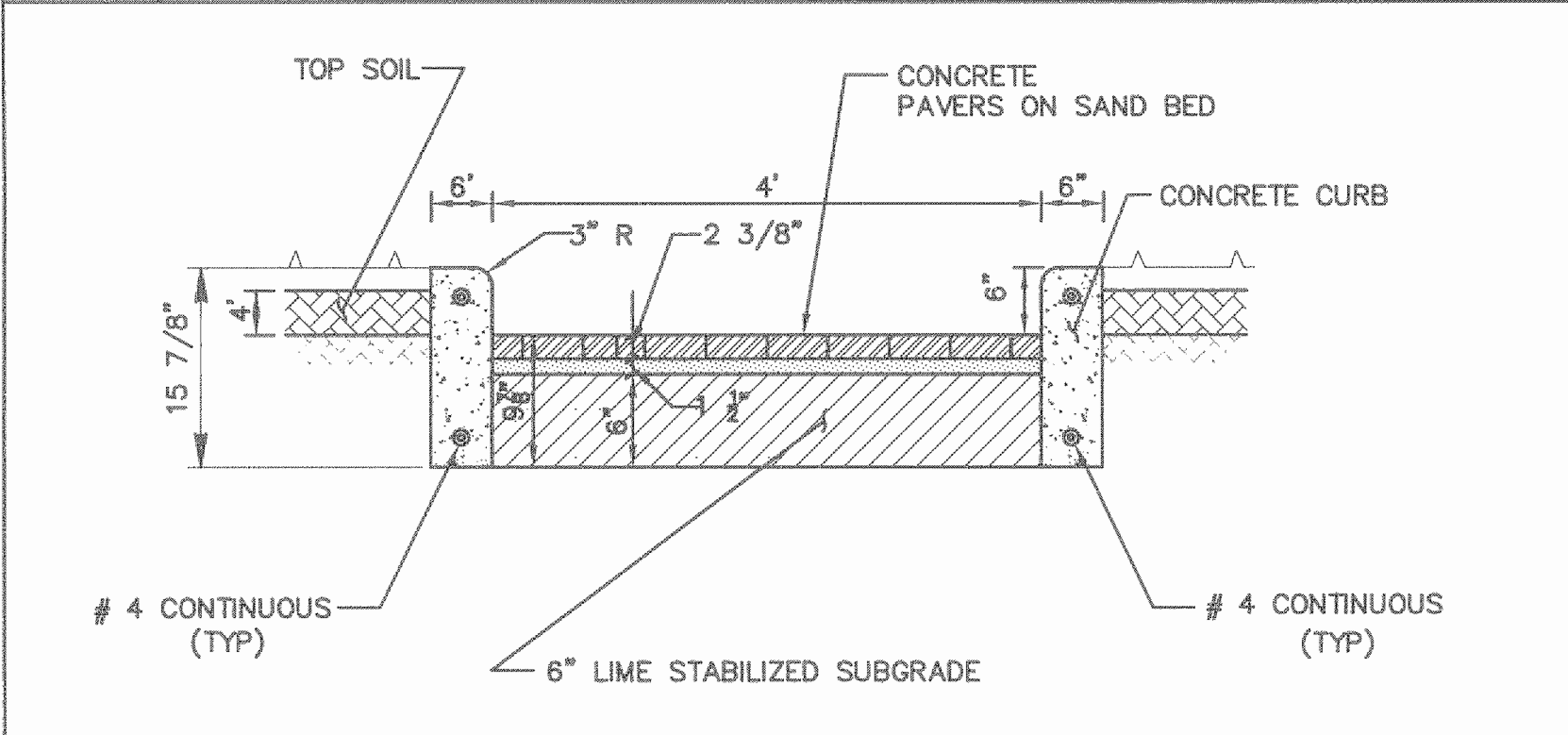
A5 BLACK STAR GRAVEL SECTION NOT TO SCALE

A8 MONOLITHIC CURB AND GUTTER DETAIL NOT TO SCALE

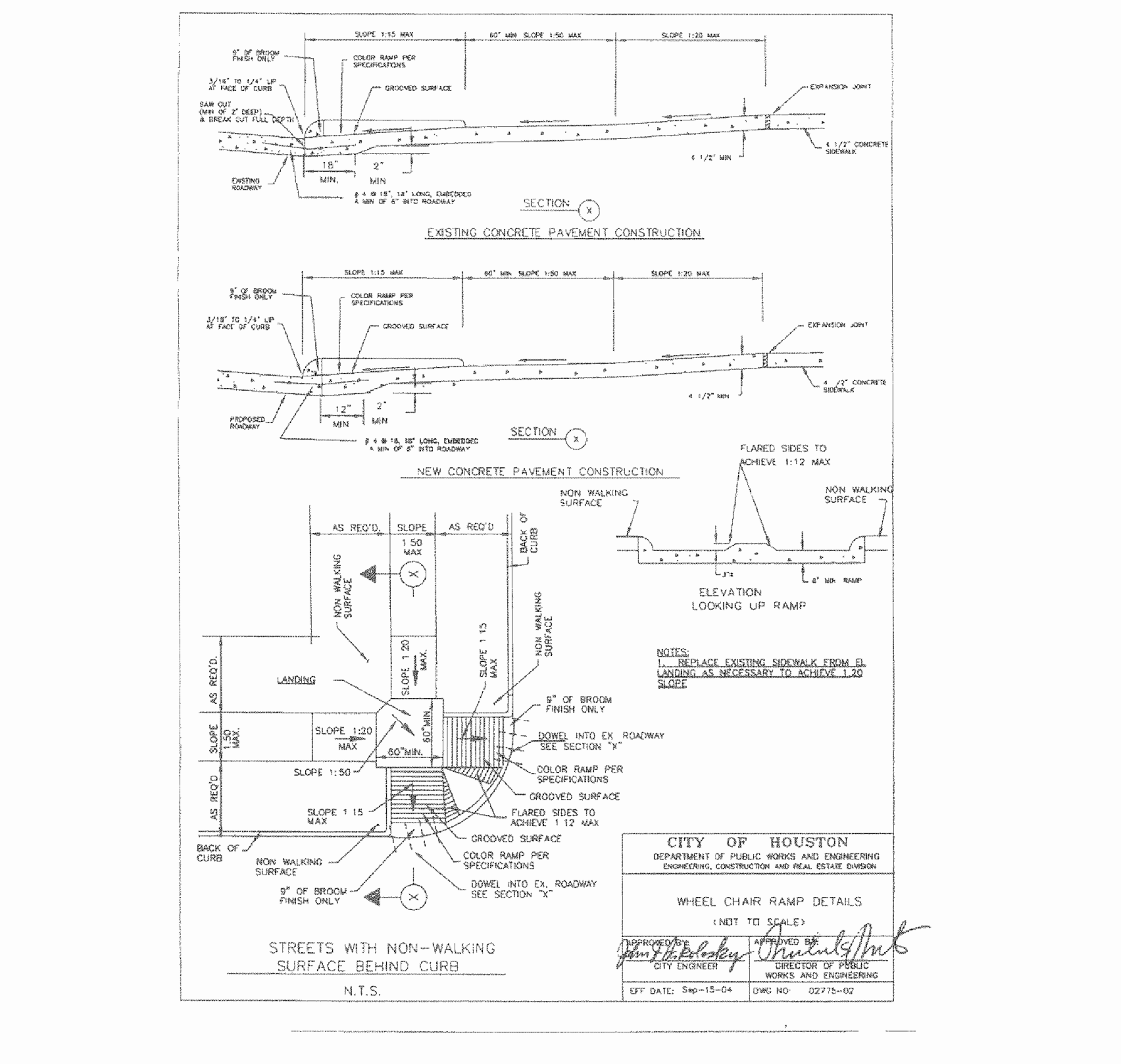
A9 CURB DETAILS NOT TO SCALE



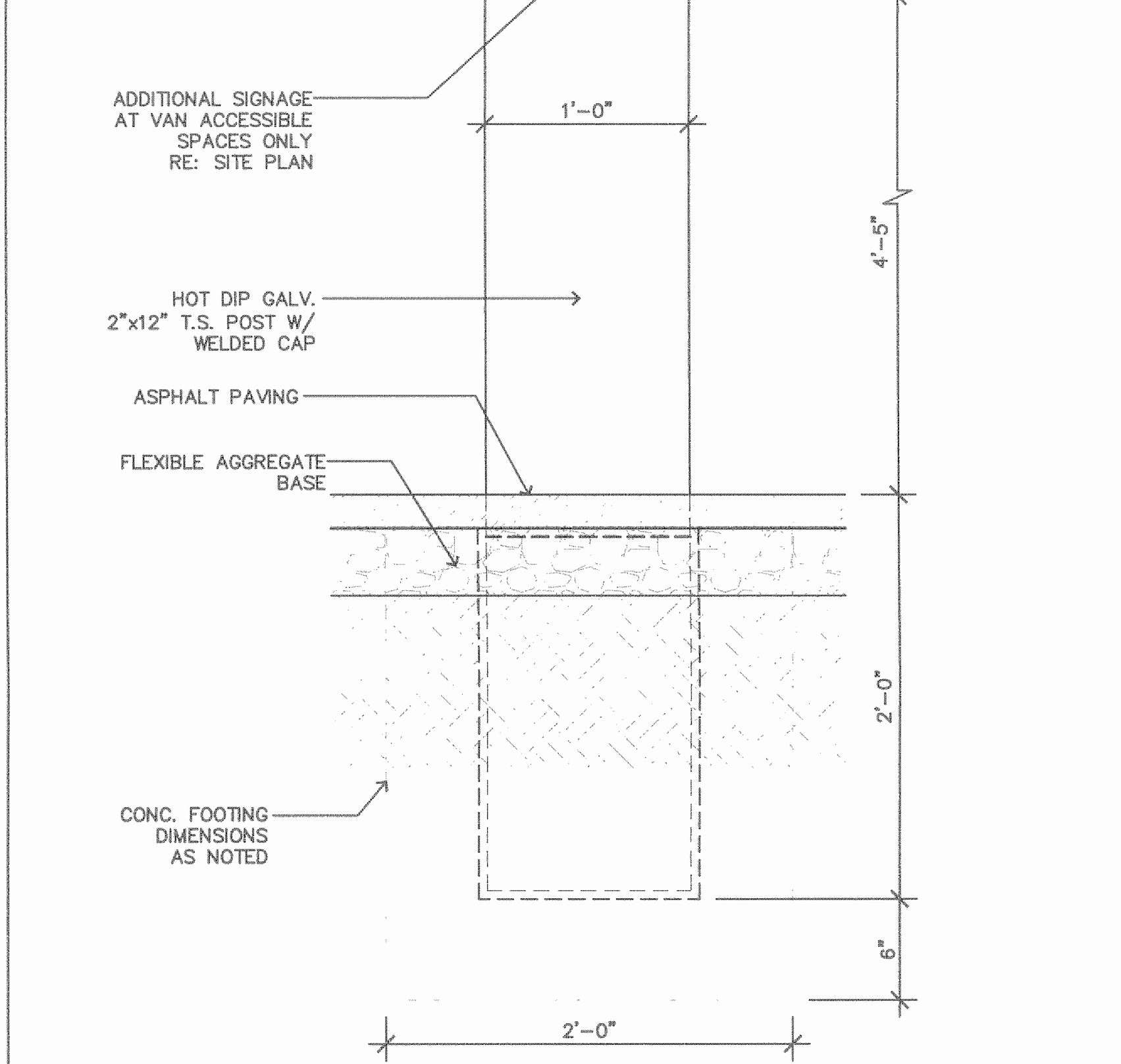
A11 PAVER WALKWAY DETAIL IN PAVEMENT NOT TO SCALE



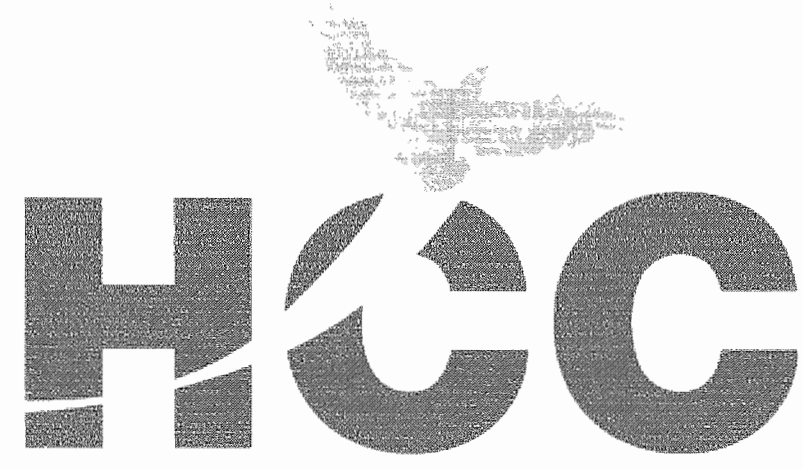
A12 PAVER WALKWAY DETAIL NOT TO SCALE



A13 CURB RAMP DETAIL NOT TO SCALE

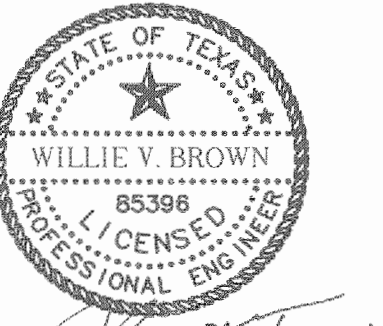


A15 HANDICAP SIGN DETAILS NOT TO SCALE



Houston
Community
College

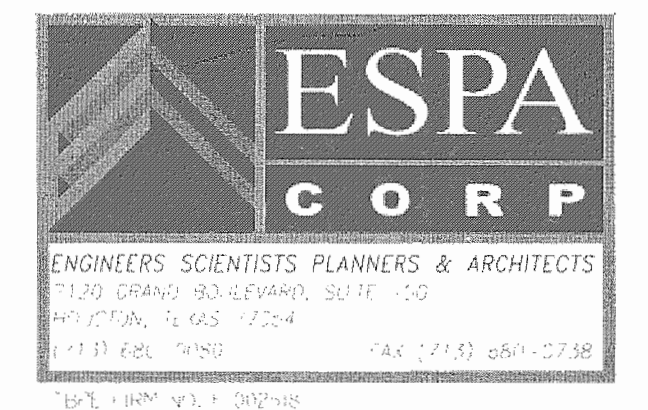
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Issue/Revision:

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR BID & CONSTRUCTION	05/08/11	JA

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281-759-1515 ph 281-759-1723 fx

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713.580.8888 Fax

Central Campus
Parking Lot Improvements
1300 Holman Street
Houston, TX 77004

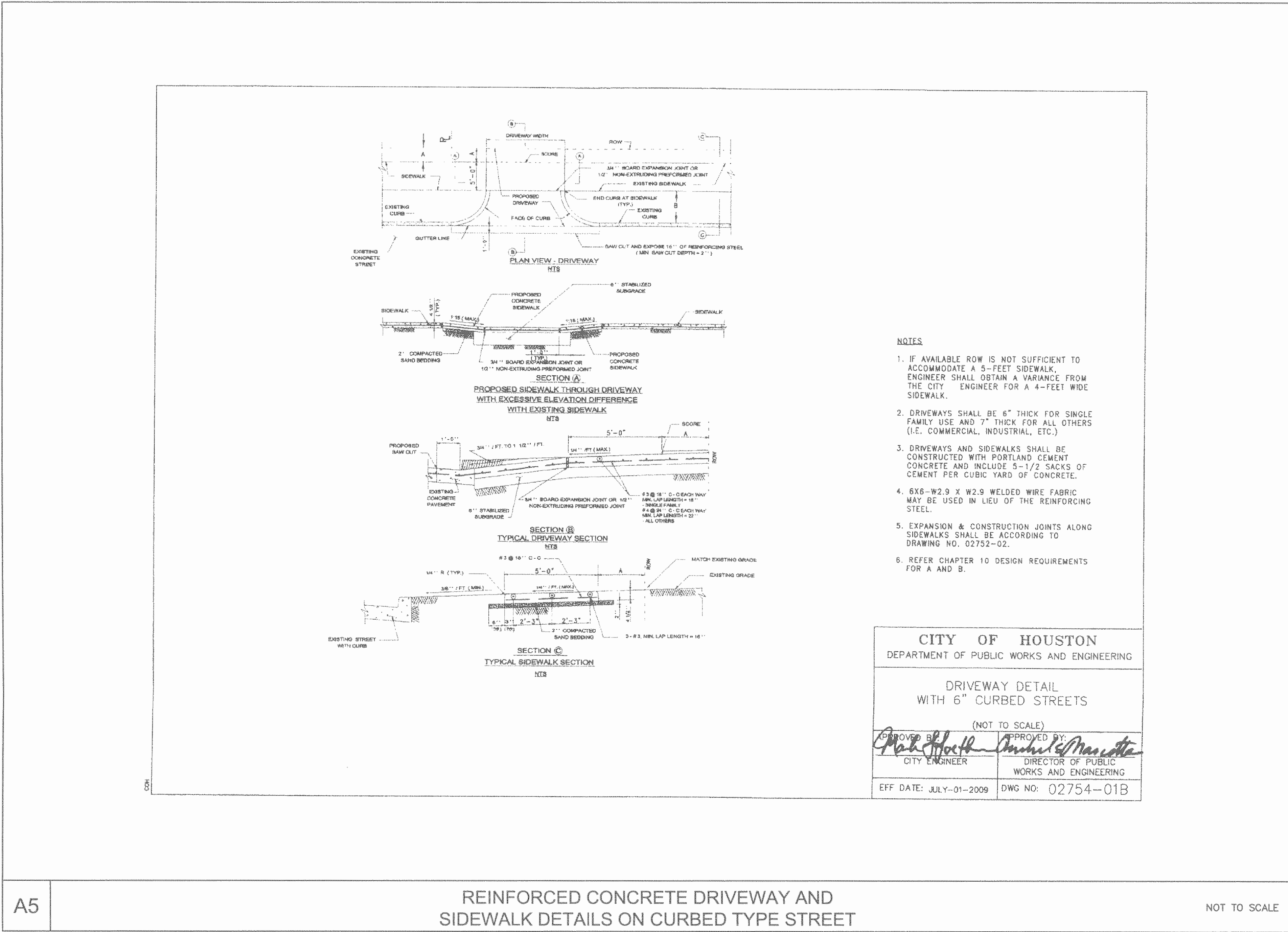
Contract No.:	A/E Project No.:
Drawn By:	Date:
Checked By:	Date:
Approved By:	Date:

Ownership of Instruments of Service:
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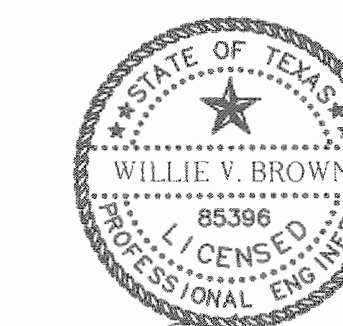
PAVING DETAIL

Scale: N.T.S.

C-12.1



A5 REINFORCED CONCRETE DRIVEWAY AND SIDEWALK DETAILS ON CURBED TYPE STREET NOT TO SCALE

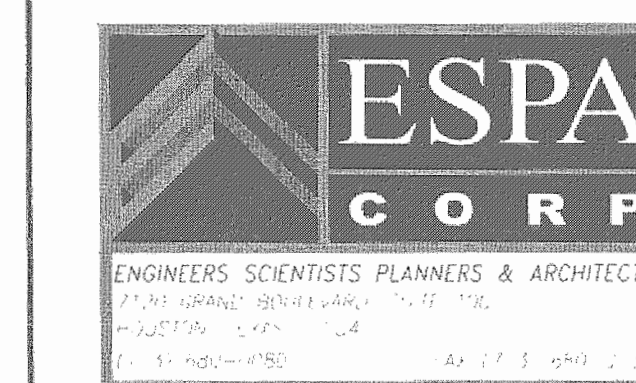


5/11/2011

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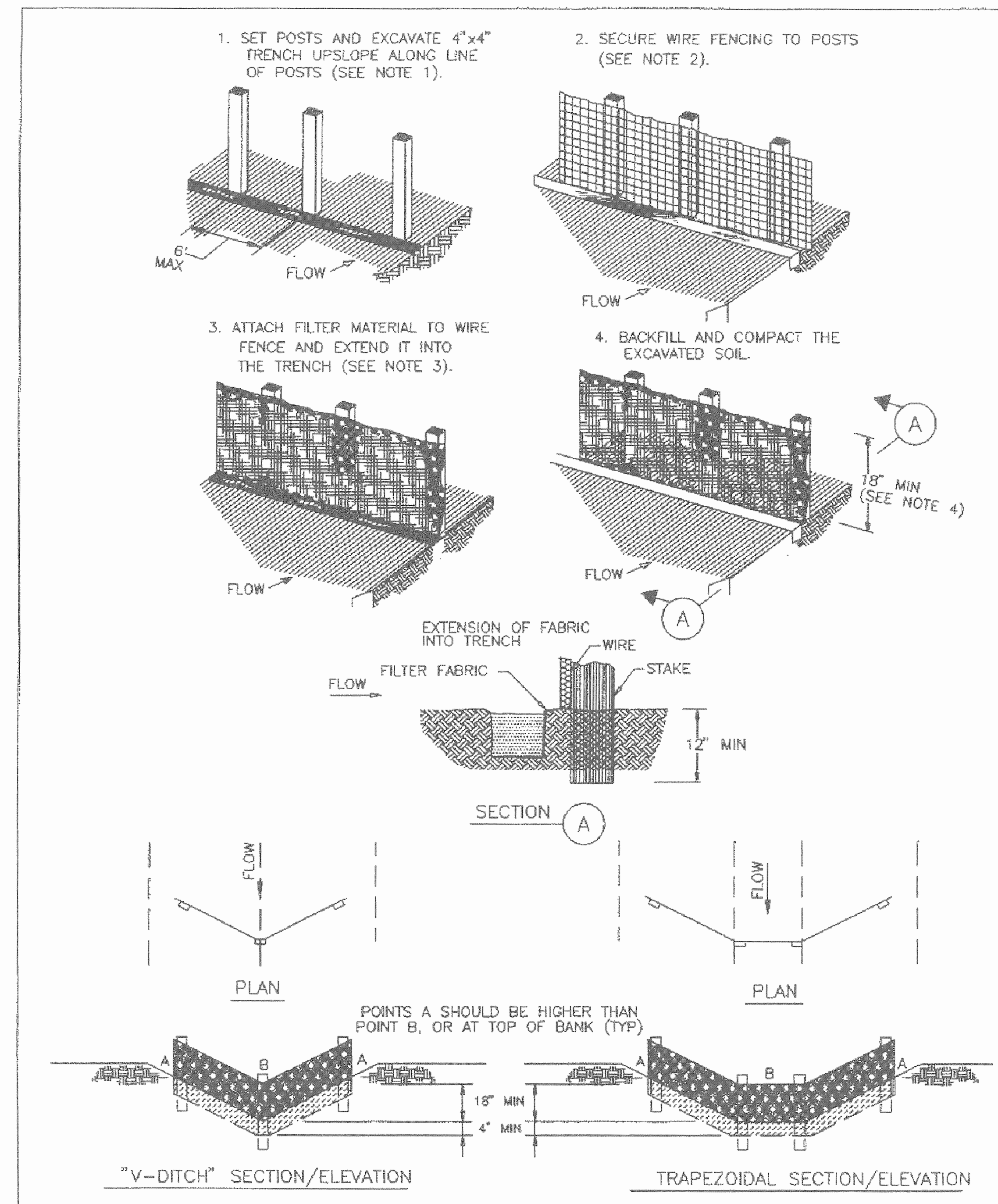
Contract No.:
Drawn By:
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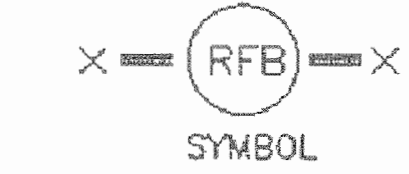
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**STORM WATER
POLLUTION
PREVENTION DETAILS**

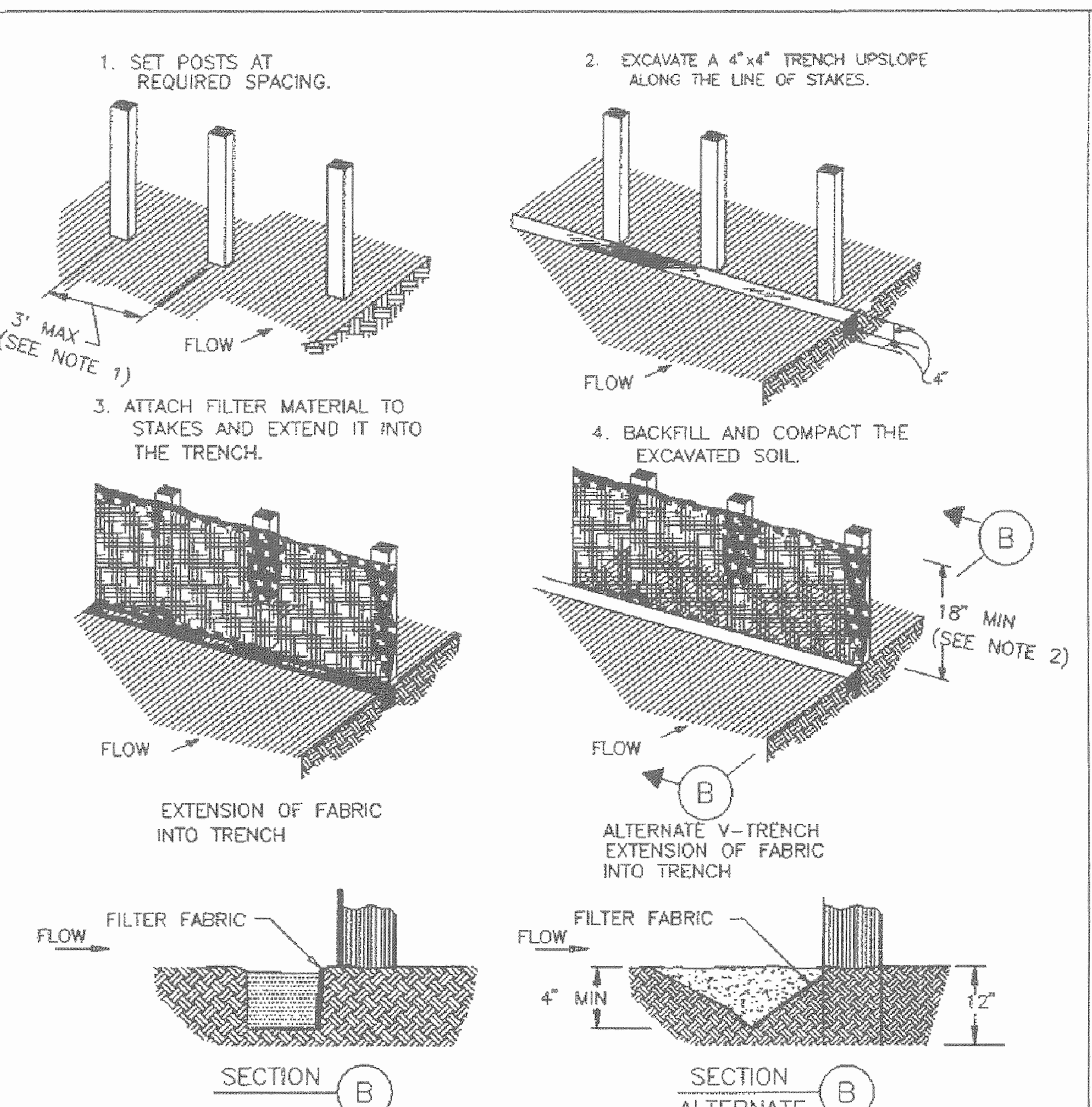
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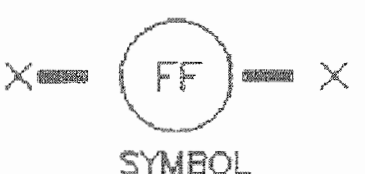
- CONSTRUCTION NOTES:**
- SET 2 INCH BY 2 INCH WOODEN STAKES SPACED A MAX OF 6 FEET APART AND EMBEDDED A MIN OF 12 INCHES.
 - WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH STAPLES.
 - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE, WITH TIES SPACED EVERY 24 INCHES AT TOP AND MIDSECTION.
 - MINIMUM HEIGHT OF FILTER SHOULD BE 18 INCHES AND A MAXIMUM OF 36 INCHES ABOVE NATURAL GROUND.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED 6 INCHES AT THE POSTS, AND FOLDED.
 - SEE COH STANDARD SPECIFICATION FOR FILTER FABRIC BARRIER.



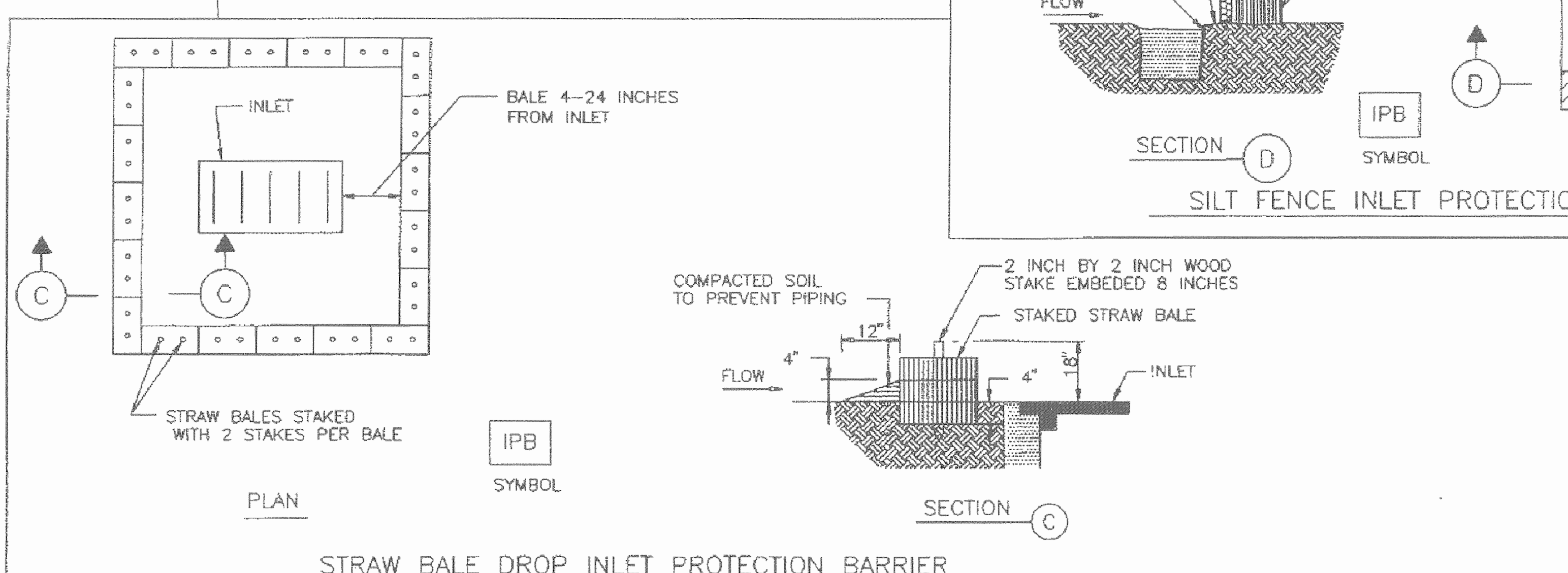
REINFORCED FILTER FABRIC BARRIER



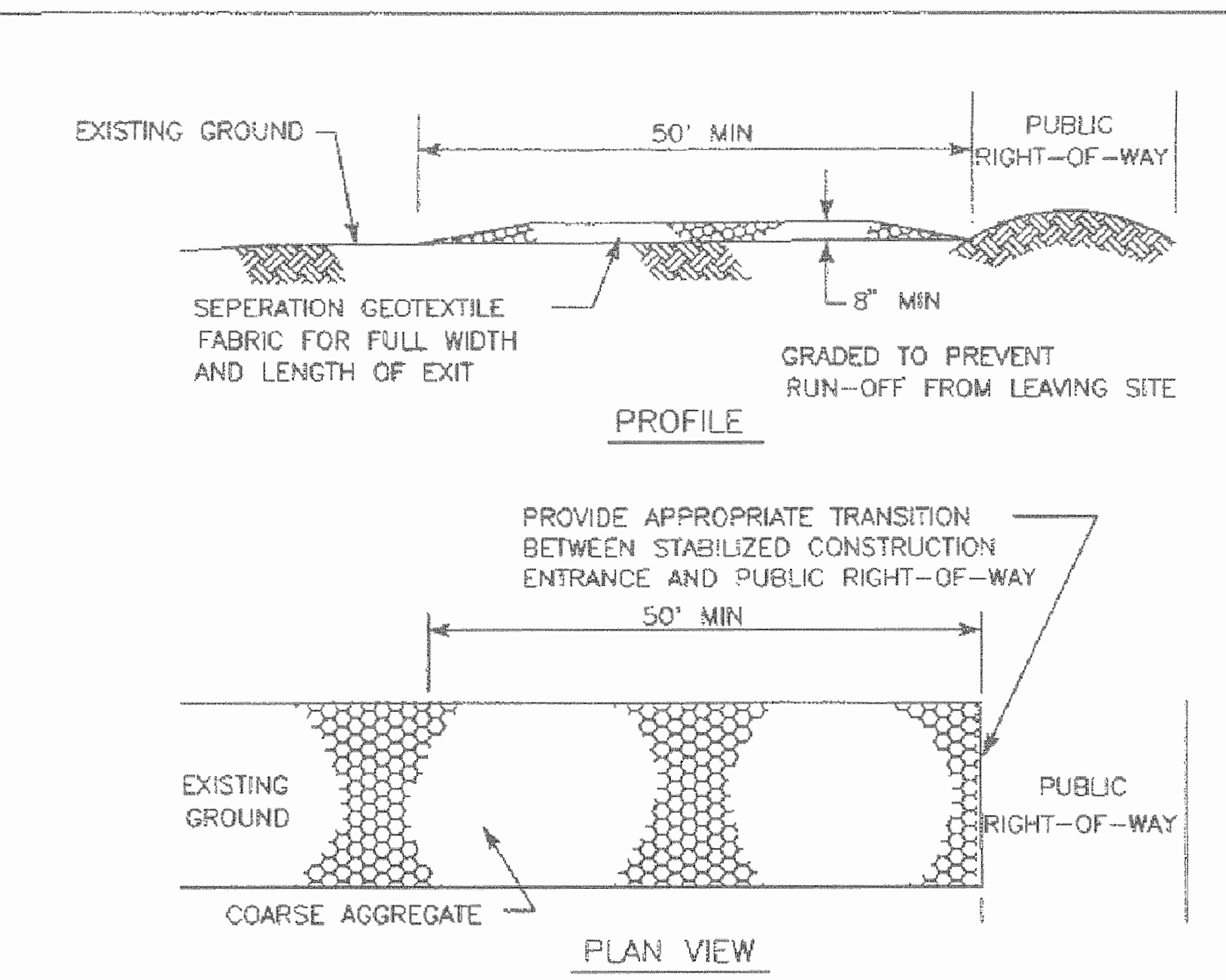
- CONSTRUCTION NOTES:**
- 2 INCH THICK BY 2 INCH WOODEN STAKES TO BE SET AT MAX SPACING OF 3 FEET AND EMBEDDED A MIN OF 8 INCHES. IF PREASSEMBLED FENCE WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 8 FEET MAX.
 - ATTACH FILTER FABRIC TO WOODEN STAKES. FILTER FABRIC FENCE SHALL HAVE A MIN HEIGHT OF 18 INCHES AND MAX HEIGHT OF 36 INCHES ABOVE NATURAL GROUND.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHOULD BE OVERLAPPED 6 INCHES AT THE POSTS, AND FOLDED.
 - SEE COH STANDARD SPECIFICATION FOR FILTER FABRIC FENCE.



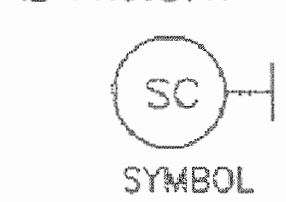
FILTER FABRIC FENCE



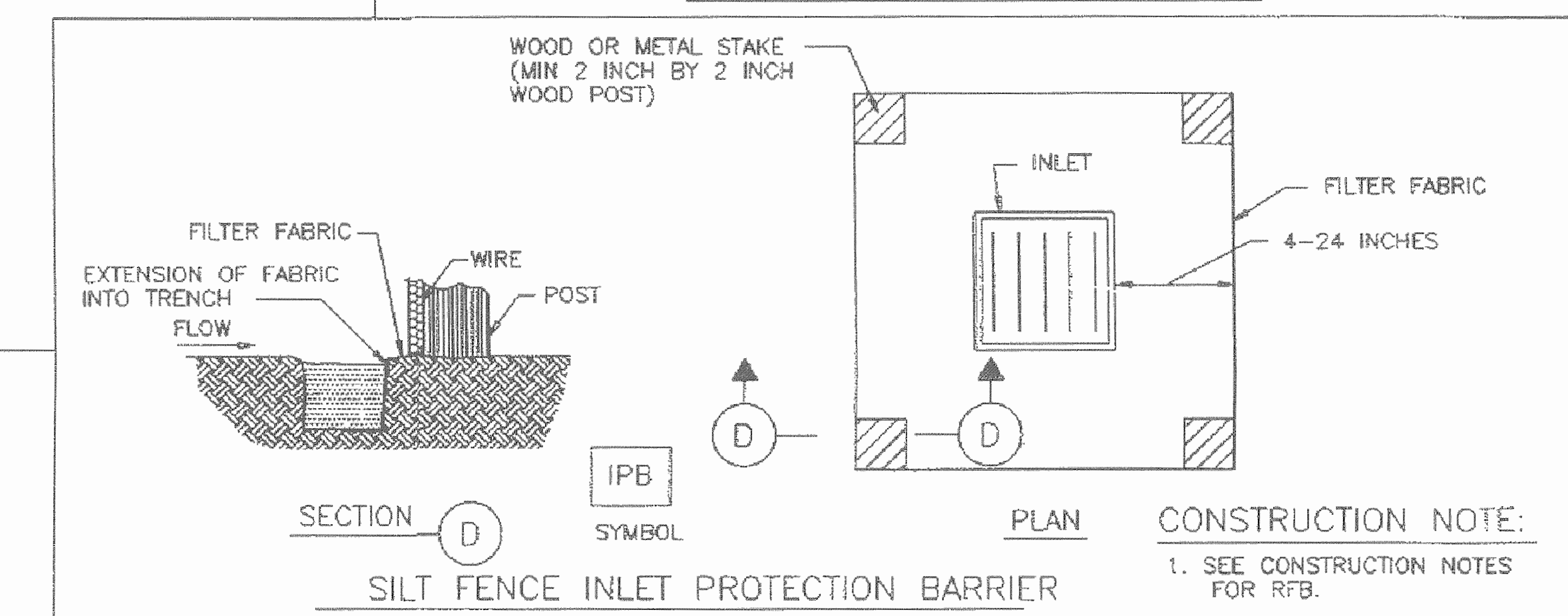
STRAW BALE DROP INLET PROTECTION BARRIER



- CONSTRUCTION NOTES:**
- LENGTH SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS, BUT NOT LESS THAN 50 FEET.
 - THICKNESS SHALL BE NOT LESS THAN 8 INCHES.
 - WIDTH SHALL BE NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
 - STABILIZATION FOR OTHER AREAS SHALL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT, UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS.
 - STABILIZED AREA MAY BE WIDENED OR LENGTHENED TO ACCOMODATE A TRUCK WASHING AREA. AN OUTLET SEDIMENT TRAP MUST BE PROVIDED FOR THE TRUCK WASHING AREA.
 - SEE COH STANDARD SPECIFICATION FOR STABILIZED CONSTRUCTION EXIT.
 - STABILIZED CONSTRUCTION EXIT SHALL BE MAINTAINED FREE OF SEDIMENT FOR THE DURATION OF THE PROJECT.



STABILIZED CONSTRUCTION EXIT



SILT FENCE INLET PROTECTION BARRIER

- CONSTRUCTION NOTE:**
- SEE CONSTRUCTION NOTES FOR RFB.

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION

STORM WATER POLLUTION
PREVENTION PLAN DETAILS
(NOT TO SCALE)

APPROVED BY: *Shoudafin*
CITY ENGINEER

APPROVED BY: *J. W. B.*
DIRECTOR OF PUBLIC WORKS AND ENGINEERING

EFF DATE: OCT-01-2002 DWG NO: 01571-01



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ENVIRONMENTS & CO logo and address: ARCHITECTURE + INTERIORS + LANDSCAPE + PLANNING, 2150 PROVINCIAL BLVD, BLDG 4 #413, HOUSTON, TEXAS 77058

E&C logo and address: E&C Engineers & Consultants Inc., 1010 Lamar, #650, Houston, Texas 77002

Central Campus Parking Lot Improvements
1300 Holman Street
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TRAFFIC CONTROL PLAN GENERAL NOTES

Scale: NTS

Table with 4 columns: NO., DATE, REVISION, APP'D.

CONSTRUCTION NOTES

- 1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE LOCAL AUTHORITY OF GOVERNING AGENCY OF THE BEGINNING DATE OF CONSTRUCTION AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SEE THAT NO WORK IS DONE WITHOUT THE PROPER INSPECTIONS AND PERMITS BY THE LOCAL AUTHORITY OR GOVERNING AGENCY.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR APPLYING FOR AND PAYING FOR ALL PERMITS AND APPROVALS UNLESS NOTIFIED OTHERWISE.

UTILITY NOTES

- 1. ALL TRENCHES UNDER PROPOSED PAVEMENT SHALL BE BACKFILLED TO SUBGRADE ELEVATION WITH COMPACTED GRANULAR MATERIALS.
2. IT SHALL BE THE DUTY AND RESPONSIBILITY OF THE CONTRACTOR AND ALL OF ITS SUBCONTRACTORS TO BE FAMILIAR AND COMPLY WITH ALL REQUIREMENTS OF PUBLIC LAW 91-504, 29 U.S.C. SECS 651 ET. SEQ., THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, (OSHA) AND ALL AMENDMENTS THERETO, AND TO ENFORCE AND COMPLY WITH ALL OF THE PROVISIONS OF THIS ACT.

PAVING CONSTRUCTION NOTES

- 1. ALL ROAD WIDTHS, CURB RADII, AND CURVE ALIGNMENT SHOWN INDICATE BACK OF CURB OR EDGE OF PAVEMENT IF THERE IS NO CURB. ELEVATIONS SHOWN INDICATE TOP OF CURB ELEVATIONS ON CURBED STREETS, OR TOP OF PAVEMENT ELEVATION ON NON-CURBED STREETS.
2. ALL CURB RADII TO VARY TO FACE OF CURB IN ACCORDANCE WITH THE PLANS WITH A MINIMUM ONE (1) PERCENT GRADE, UNLESS OTHERWISE NOTED, FOR MACHINE-LAD CURBS, CURB FINISH MUST MAINTAIN SAME OUTSIDE DIMENSIONS.

WATER CONSTRUCTION NOTES

- 1. THIS PROJECT SHALL BE BUILT BY MEANS OF OPEN CUT EXCEPT AS NOTED ON THE DRAWINGS. CONTRACTOR TO DETERMINE THE LOCATIONS OF BORE PITS IN FIELD, SUBJECT TO THE CITY ENGINEER'S APPROVAL.
2. ALL UTILITIES SHOWN ON THESE DRAWINGS ARE SHOWN AT THE APPROXIMATE LOCATIONS BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL FIELD DETERMINE THE EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION. HE SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND MAINTAIN THESE UNDERGROUND UTILITIES.

STREET AND BRIDGE NOTES

- 1. DEPARTMENT OF PUBLIC WORKS AND ENGINEERING'S "STANDARD CONSTRUCTION SPECIFICATIONS" DATED OCTOBER 2002, AND "STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING" DATED OCTOBER 2002 (AND LATER UNLESS OTHERWISE NOTED AND APPROVED ON THESE PLANS. THE DESIGN IS CONSISTENT WITH THE MINIMUM STANDARDS ESTABLISHED IN THE "INFRASTRUCTURE DESIGN MANUAL" DATED OCTOBER 2002.
2. FILL AREAS ON PLANS SHALL BE FILLED LAYERS NOT EXCEEDING 6" IN DEPTH AND EACH COMPACTED TO NOT LESS THAN 90% STANDARD PROCTOR DENSITY PRIOR TO INSTALLATION OF WATER LINE AND FILL AREA SHALL BE SEEDED AND FERTILIZED WITHIN 10 WORKING DAYS.

STORM SEWER CONSTRUCTION NOTES

- 1. STORM SEWER SHALL BE REINFORCED CONCRETE PIPE (C-76 CLASS II) AND SHALL BE INSTALLED, BEDDED, AND BACKFILLED IN ACCORDANCE WITH THE CITY OF HOUSTON DRAWING NOS. 02317-02, 02317-03, 02317-04, 02317-05, 02317-06, AND 02317-07, (OCT.2002) AS APPLICABLE UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
2. ALL STORM SEWER CONSTRUCTION IN SIDELOT EASEMENT SHALL BE R.C.P.(C-76, CLASS III) AND SHALL BE BEDDED IN ACCORDANCE WITH THE CITY OF HOUSTON DRAWINGS NOS. 02317-02, 02317-03, 02317-04, 02317-05, AND 02317-07 AS APPLICABLE.

WASTEWATER CONSTRUCTION NOTES

- 1. SANITARY SEWERS SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE LATEST CITY OF HOUSTON SPECIFICATIONS FOR SEWER CONSTRUCTION, BEDDING FOR SANITARY SEWERS SHALL BE IN ACCORDANCE WITH CITY OF HOUSTON DRAWING NO. 02317-08.
2. SANITARY SEWER PIPE SHALL BE SDR-26 PVC UNLESS NOTED OTHERWISE.
3. ALL SANITARY SEWER MANHOLES SHALL BE PER CITY OF HOUSTON DWG NO. 02082-02.

TRAFFIC NOTES

- 1. CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART IV OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TEXAS MUTCD), MOST RECENT EDITION WITH REVISIONS) DURING CONSTRUCTION.
2. NO LANES SHALL BE CLOSED DURING THE HOURS OF 5:30 AM TO 7:00 PM MONDAY THRU FRIDAY IN DOWNTOWN/MIDTOWN AREA.

SWPPP CONSTRUCTION NOTES

- 1. CONTRACTOR SHALL IMPLEMENT INLET PROTECTION DEVICES AND REINFORCED FILTER FABRIC BARRIERS ALONG ROAD AND SIDE DITCHES AT LOCATIONS SHOWN ON THE TYPICAL STORM WATER POLLUTION PREVENTION (SWPPP) PLANS TO KEEP SILT AND OR EXCAVATED MATERIAL FROM ENTERING INTO THE STORM WATER INLETS AND DITCHES EVENTUALLY POLLUTING THE RECEIVING STORM.
2. DURING THE EXCAVATION PHASE OF THE PROJECT, CONTRACTOR SHALL SCHEDULE THE WORK IN SHORT SEGMENTS SO THAT EXCAVATION MATERIAL CAN BE QUICKLY HALLED AWAY FROM THE SITE AND TO PREVENT IT FROM STAYING UNCOLLECTED ON THE EXISTING PAVEMENT. ANY EXCAVATED MATERIAL WHICH FALLS ON PAVEMENTS OR DRIVEWAYS SHALL BE SWEEP' BACK INTO THE EXCAVATED AREA.

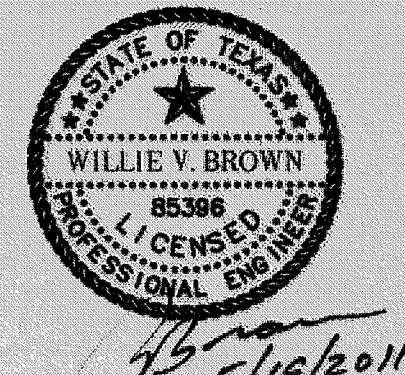
AT&T TEXAS/SBC NOTES

- 1. THE LOCATIONS OF AT&T TEXAS/SBC FACILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
2. THE CONTRACTOR SHALL CALL 1-800-344-8377 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.

CENTERPOINT ENERGY NOTES

- 1. LOCATIONS OF CENTERPOINT ENERGY MAIN LINES (TO INCLUDE CENTERPOINT ENERGY, INTERSTATE PIPELINE, ILL. WHERE APPLICABLE) ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.
2. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTER POINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.

LOCATIONS OF CenterPoint Energy MAIN LINES (TO INCLUDE CenterPoint Energy, INTERSTATE PIPELINE ILL. WHERE APPLICABLE) ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT (713)223-4267 OR 1-800-859-5544 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.



ESPA CORP logo and address: ENGINEERS SCIENTISTS PLANNERS & ARCHITECTS, 7120 GRAND BOULEVARD, SUITE 100, HOUSTON, TEXAS 77054

HOUSTON COMMUNITY COLLEGE CENTRAL CAMPUS GENERAL NOTES

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

Form with fields for DATE, DRAWING SCALE, HORZ, VERT, SHEET No. and a circular seal with '48201' and 'CITY OF HOUSTON'.

F:\2168-024\COH Traffic Control\2 GENERAL NOTES.dwg Plotted: May 19, 2011 - 2:15pm by lloyd

F:\2168-024\C14.0 General Notes.dwg Plotted: Jun 02, 2011 - 11:20am by lloyd



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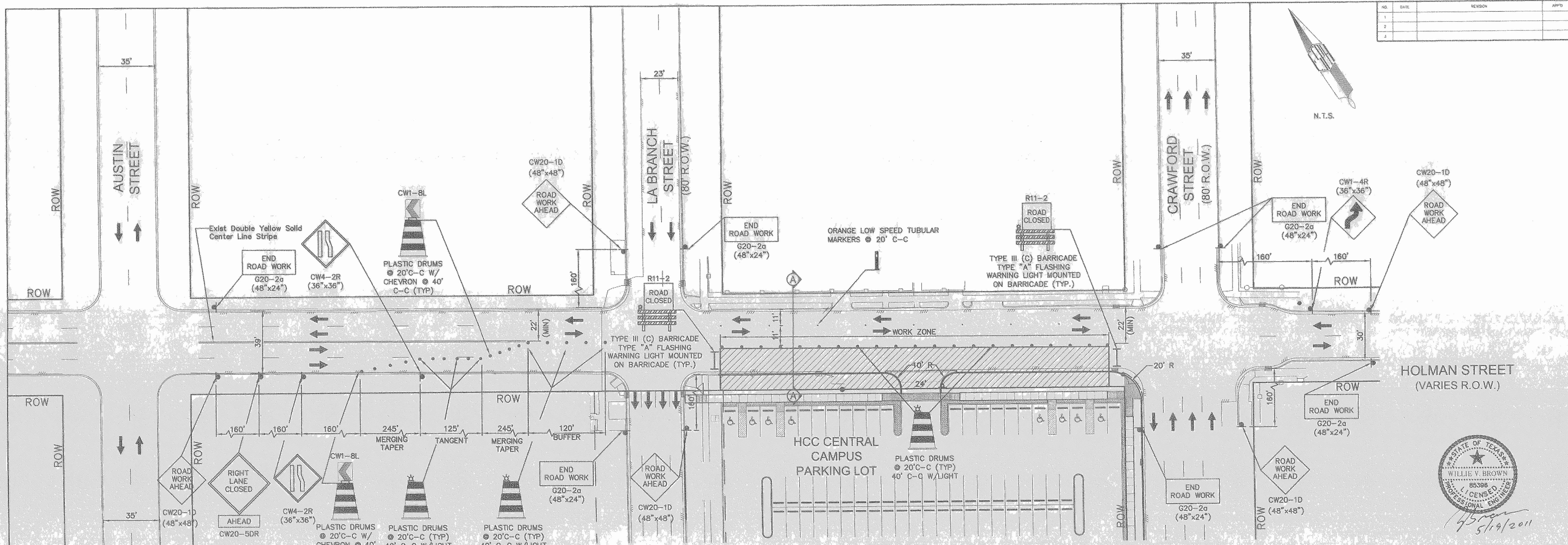
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HOLMAN AVENUE
TRAFFIC CONTROL PLAN

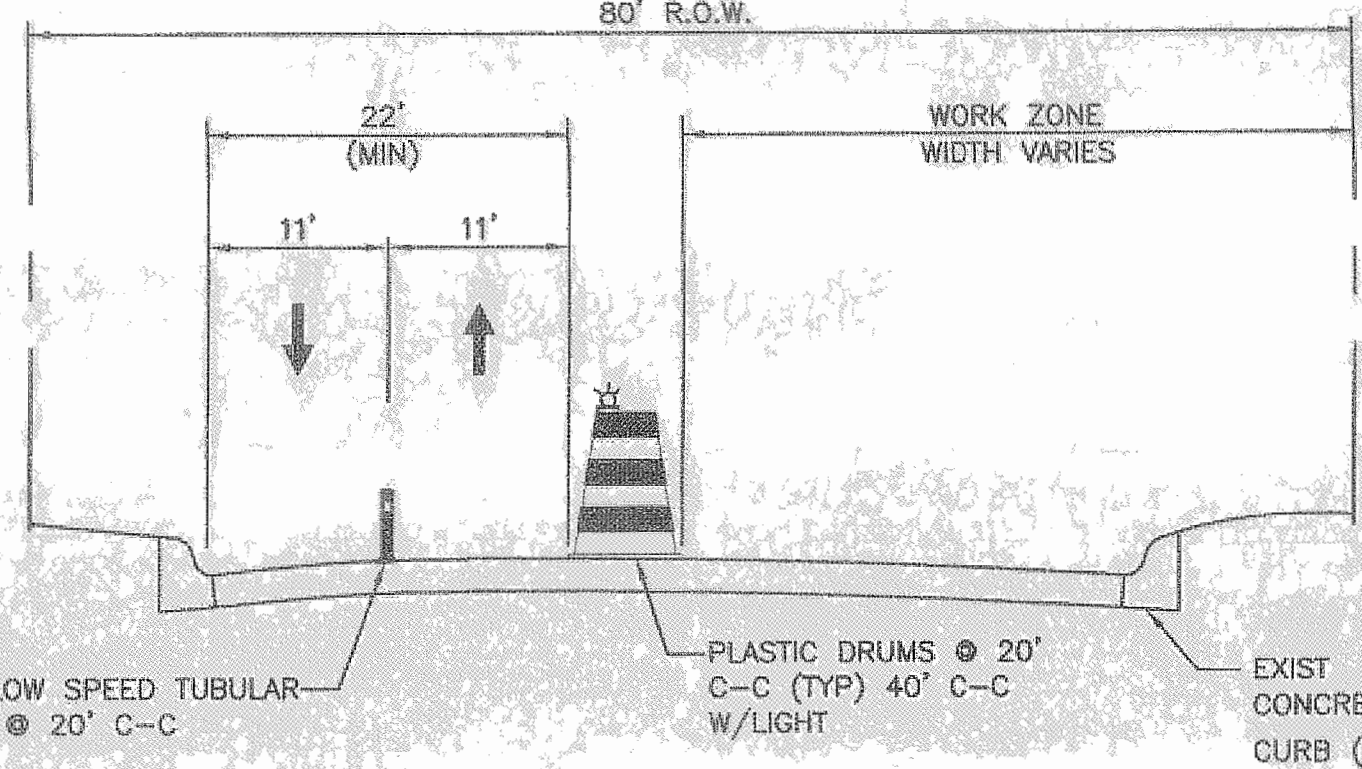
Scale: NTS

C-15.0



TRAFFIC NOTES

- 1. CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART 6 OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TEXAS MUTCD), MOST RECENT EDITION WITH REVISIONS) DURING CONSTRUCTION.
2. CONTRACTOR SHALL MAINTAIN AT LEAST ONE LANE OF TRAFFIC IN EACH DIRECTION DURING WORKING HOURS.
3. CONTRACTOR SHALL MAINTAIN TRAFFIC LANE(S) ACCORDING TO TRAFFIC CONTROL PLAN(S) DURING WORKING HOURS.
4. CONTRACTOR SHALL COVER OPEN PAVEMENT EXCAVATIONS WITH ANCHORED STEEL PLATES DURING NON-WORKING HOURS AND OPEN LANES FOR NORMAL TRAFFIC FLOW.
5. AN OFF-DUTY UNIFORMED POLICE OFFICER IS REQUIRED TO DIRECT TRAFFIC WHEN LANES ARE BLOCKED.
6. IF THE CONTRACTOR CHOOSES TO USE A DIFFERENT METHOD OF "TRAFFIC CONTROL PLANS" DURING THE CONSTRUCTION THAN WHAT IS OUTLINED IN THE CONTRACT DRAWINGS, (S)HE SHALL BE RESPONSIBLE TO PREPARE AND SUBMIT AN ALTERNATE SET OF PLANS* TO PLAN REVIEW SECTION FOR APPROVAL TEN WORKING DAYS PRIOR TO IMPLEMENTATION.
* THESE PLANS SHALL BE DRAWN TO SCALE ON REPRODUCIBLE MYLARS AND SEALED BY AN ENGINEER LICENSED IN THE STATE OF TEXAS. PLANS WILL BECOME A PART OF THE CONTRACT DRAWINGS.
7. APPROVED COPIES OF "TRAFFIC CONTROL PLANS" AND LANE/SIDEWALK CLOSURE PERMITS SHALL BE AVAILABLE FOR INSPECTION AT JOB SITE AT ALL TIMES.
8. CONTRACTOR MUST SECURE "LANE/SIDEWALK CLOSURE PERMITS" AND FORESTER CUT PERMITS FROM CITY'S TRAFFIC MANAGEMENT AND MAINTENANCE BRANCH BEFORE CLOSING A LANE/SIDEWALK. THE REQUEST MUST BE MADE AT LEAST TEN (10) BUSINESS DAYS PRIOR TO THE DATE FOR WHICH THE CLOSURE IS SOUGHT. NOTE THAT WORKING HOURS MAY BE RESTRICTED OR THE REQUEST MAY BE DENIED. CALL (832) 395-3020 FOR AN APPLICATION.
9. CONTRACTOR WILL BE RESPONSIBLE FOR REPLACING AND MAINTAINING PAVEMENT MARKINGS WHICH INCLUDE CENTERLINE, BARRIER LINES, LANE LINES AND RAISED PAVEMENT MARKINGS.
10. THIS TRAFFIC CONTROL PLAN REPRESENTS THE MINIMUM REQUIRED BY TRAFFIC CONDITIONS IN THE FIELD.
11. CONTRACTOR SHALL NOT BLOCK INGRESS OR EGRESS TO PRIVATE PROPERTY AT ANYTIME.
12. LANES SHALL BE KEPT CLOSED DURING PAVEMENT SURFACE RESTORATION AND OPENED ONLY AFTER PAVEMENT IS RESTORED COMPLETELY.



TYPICAL SECTION A-A
HOLMAN STREET
N.T.S.

LEGEND

- CHANNELIZING DRUM
WORK ZONE
DIRECTION OF TRAFFIC FLOW
ONE LANE TWO WAY TRAFFIC
TYPE III (C) BARRICADE
FLAGGER

SPEED LIMIT 35 MPH

NOTE: THIS TRAFFIC CONTROL PLAN ON HOLMAN, CRAWFORD, AND WINBERN IS FOR THE CONSTRUCTION OF MISSING CURB AND GUTTER SECTIONS AS PERMITTED BY CITY OF HOUSTON PERMIT OFFICE (3300 MAIN), PROJECT NO. 10092590.



HOUSTON COMMUNITY COLLEGE
CENTRAL CAMPUS
HOLMAN AVENUE
TRAFFIC CONTROL PLAN

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

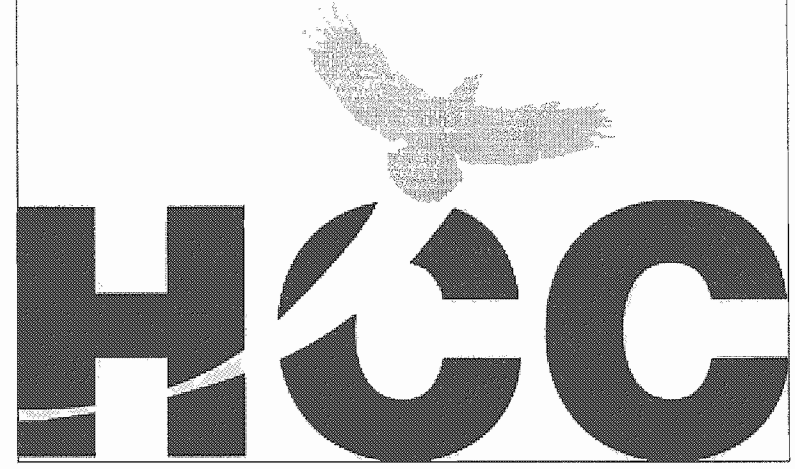
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER: [Signature] 5/14/11
WASTEWATER: [Signature] 5/14/11
STORM: [Signature] 5/14/11

Table with 2 columns: FILE NO., DRAWING SCALE, HORZ, VERT, SHEET No. 3 OF 5. Includes a circular stamp with number 48201.

T:\2166-024\COH Traffic Control\3 Holman Avenue TCP.dwg Plotted: May 19, 2011 2:19pm by lloyd

T:\2166-024\C15.0 Holman Street TCP.dwg Plotted: Jun 02, 2011 11:30am by lloyd



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(713) 680-0090 FAX (713) 680-0738
TYPE FIRM NO. F-002518

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HOUSTON, TEXAS 77058
281-799-1513 p 281-799-1723 fx

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LIGHTING DESIGNER
15405 FESIBLE BEND DR.
HOUSTON, TEXAS 77060

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**Central Campus
Parking Lot Improvements**
1300 Holman Street
Houston, TX 77004

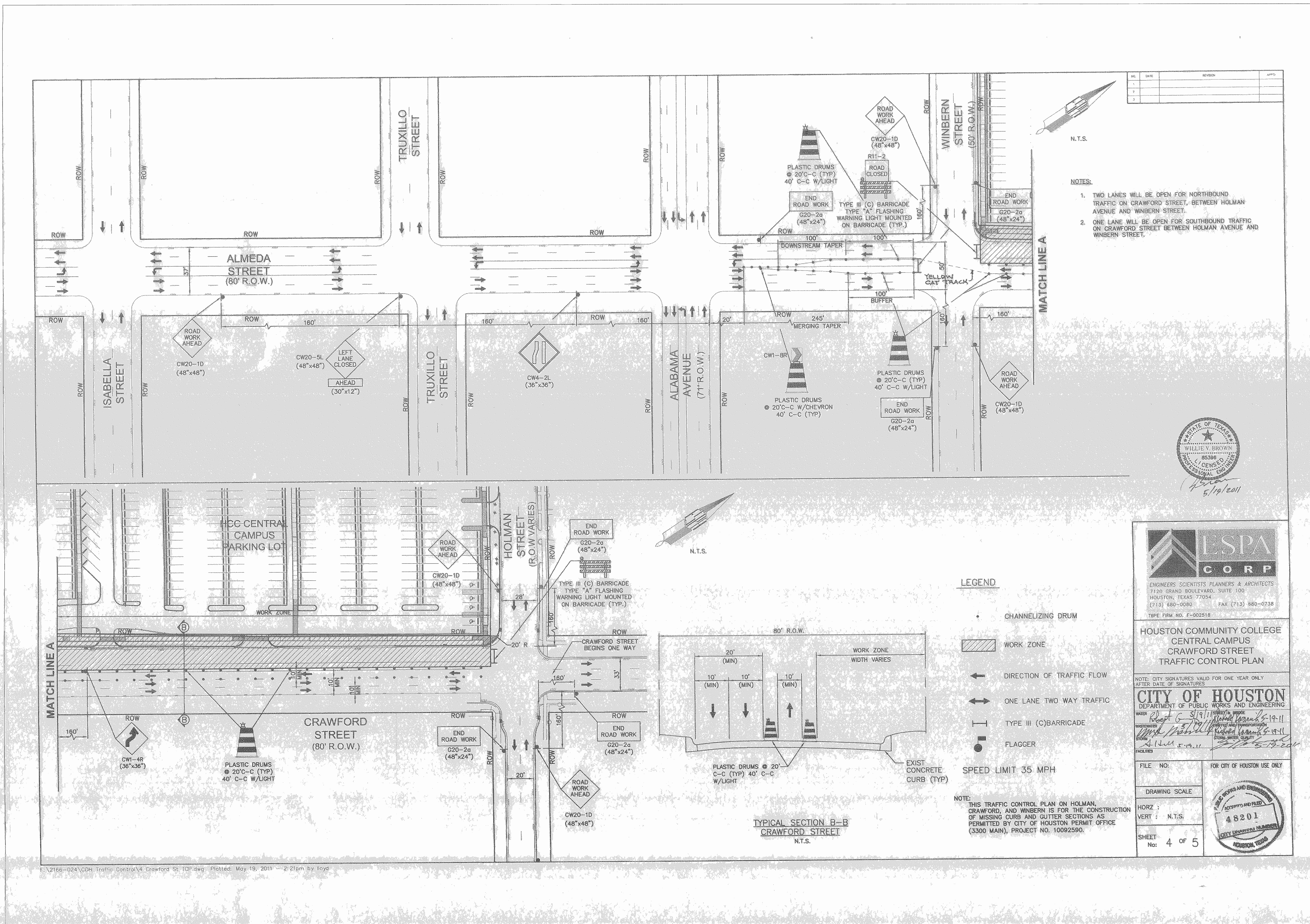
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**CRAWFORD STREET
TRAFFIC CONTROL PLAN**

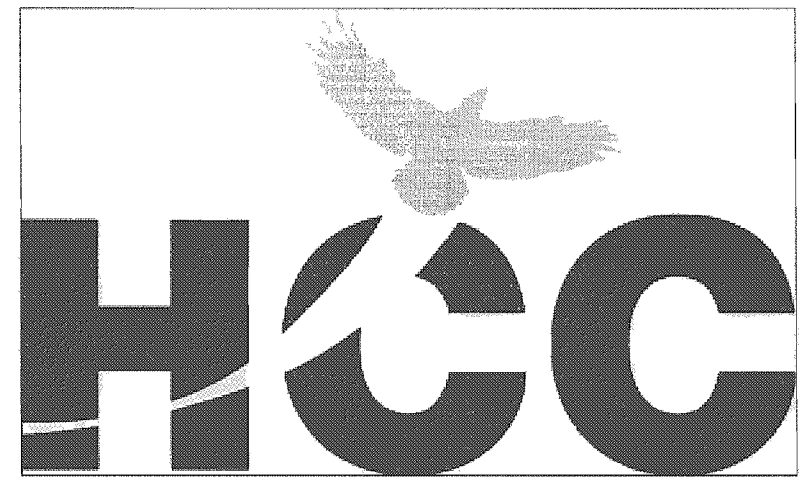
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C-16.0



F:\2166-024\CDH Traffic Control\4 Crawford St TCF.dwg Plotted: May 19, 2011 2:21pm by Iloyd

F:\2166-024\C16.0 Crawford Street TCF.dwg Plotted: Jun 02, 2011 11:26am by Iloyd



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Issue/Revision:

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR BID & CONSTRUCTION	05/09/11	JA

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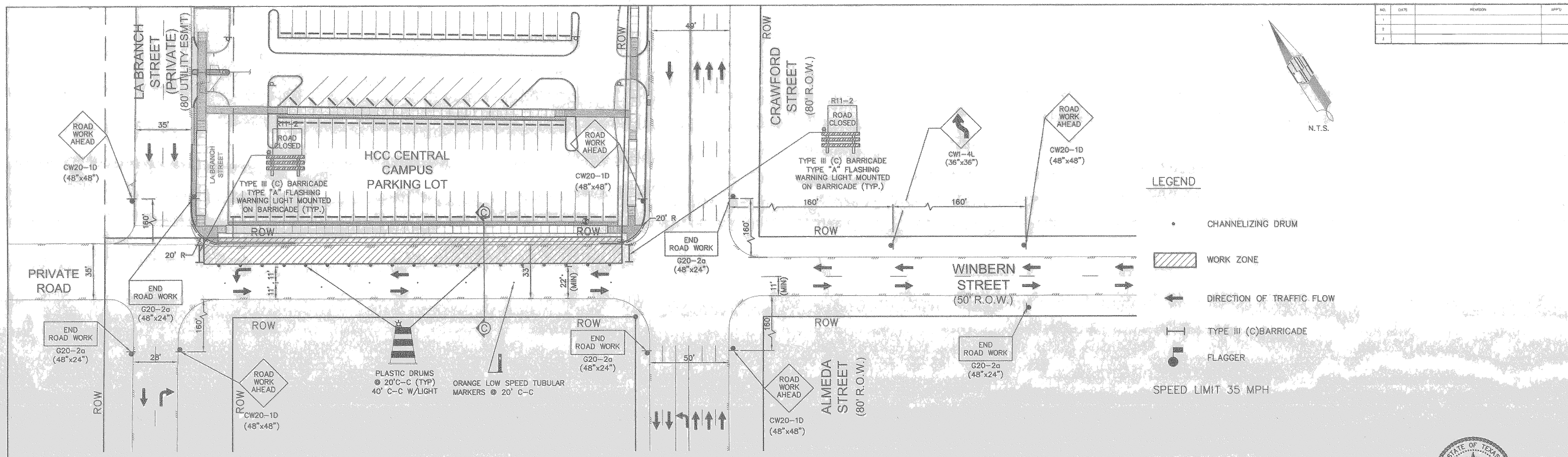
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WINBERN STREET
TRAFFIC CONTROL PLAN

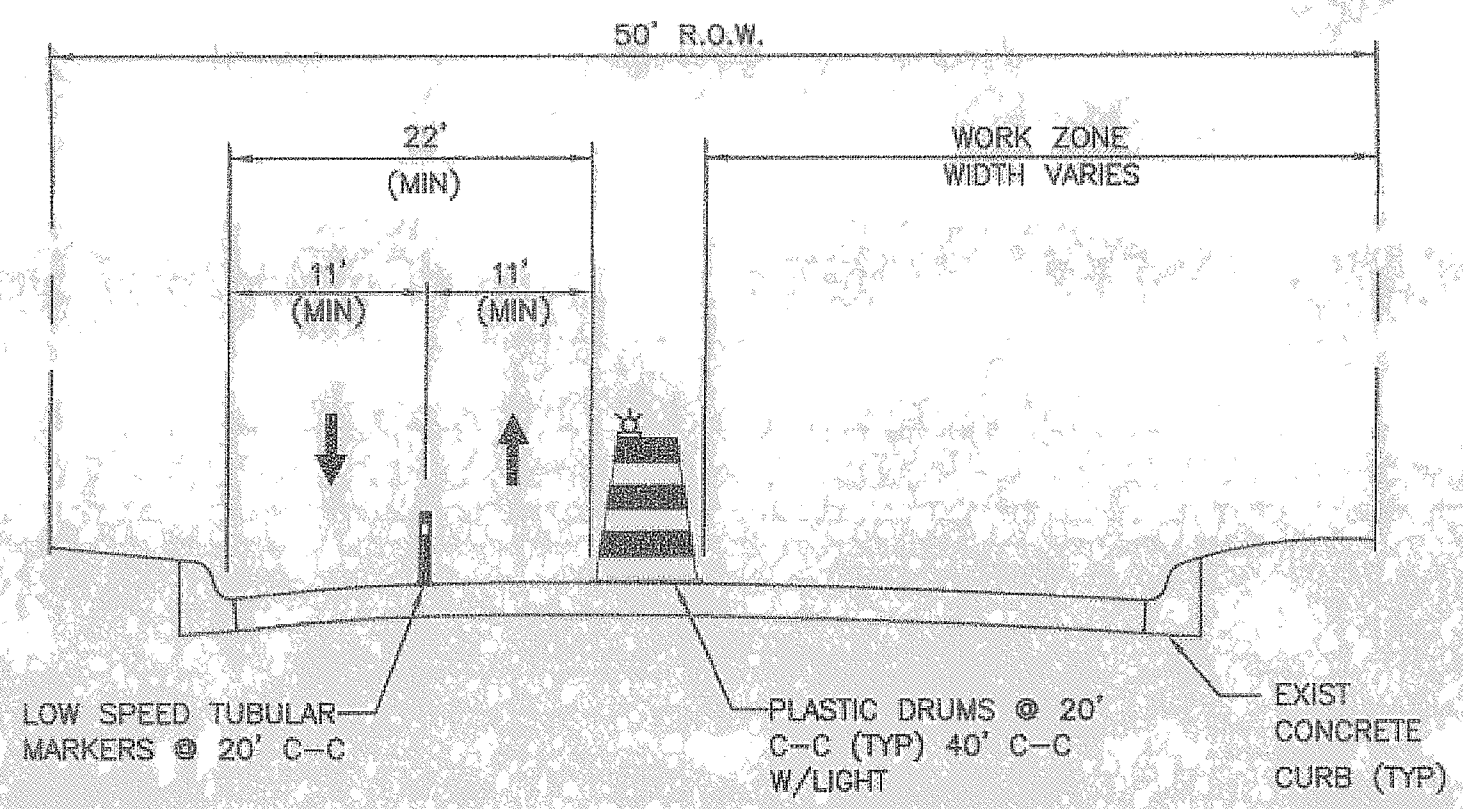
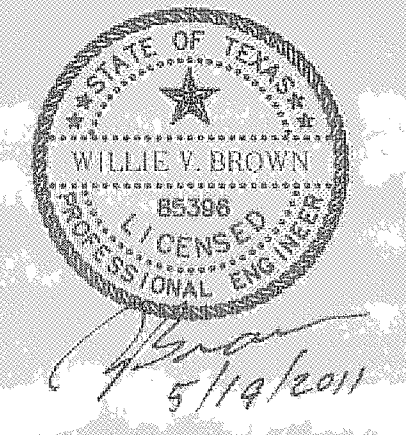
Scale: NTS

C-17.0



- LEGEND**
- CHANNELIZING DRUM
 - ▨ WORK ZONE
 - ← DIRECTION OF TRAFFIC FLOW
 - TYPE III (C) BARRICADE
 - ⚡ FLAGGER
- SPEED LIMIT 35 MPH

NOTE: THIS TRAFFIC CONTROL PLAN ON HOLMAN, CRAWFORD, AND WINBERN IS FOR THE CONSTRUCTION OF MISSING CURB AND GUTTER SECTIONS AS PERMITTED BY CITY OF HOUSTON PERMIT OFFICE (3300 MAIN), PROJECT NO. 10092590.



TYPICAL SECTION C-C
WINBERN STREET
N.T.S.

C:\2166-024\CDH Traffic Control\5 Winbern St TCP.dwg Plotted: May 19, 2011 - 2:29pm by Ilayd

C:\2166-024\C17.0 Winbern Street TCP.dwg Plotted: Jun 02, 2011 - 11:29am by Ilayd

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HOUSTON COMMUNITY COLLEGE
CENTRAL CAMPUS
WINBERN STREET
TRAFFIC CONTROL PLAN

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
WATER: [Signature] 5/19/11
SEWER: [Signature] 5/19/11
STORM WATER QUALITY: [Signature] 5/19/11

FILE NO.: FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE:
HORZ: N.T.S.
VERT: N.T.S.
SHEET No: 5 OF 5



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Table with columns: REV, DESCRIPTION, DATE, BY. Row 1: 1 ISSUED FOR BID & CONSTRUCTION, 05/08/11, JA

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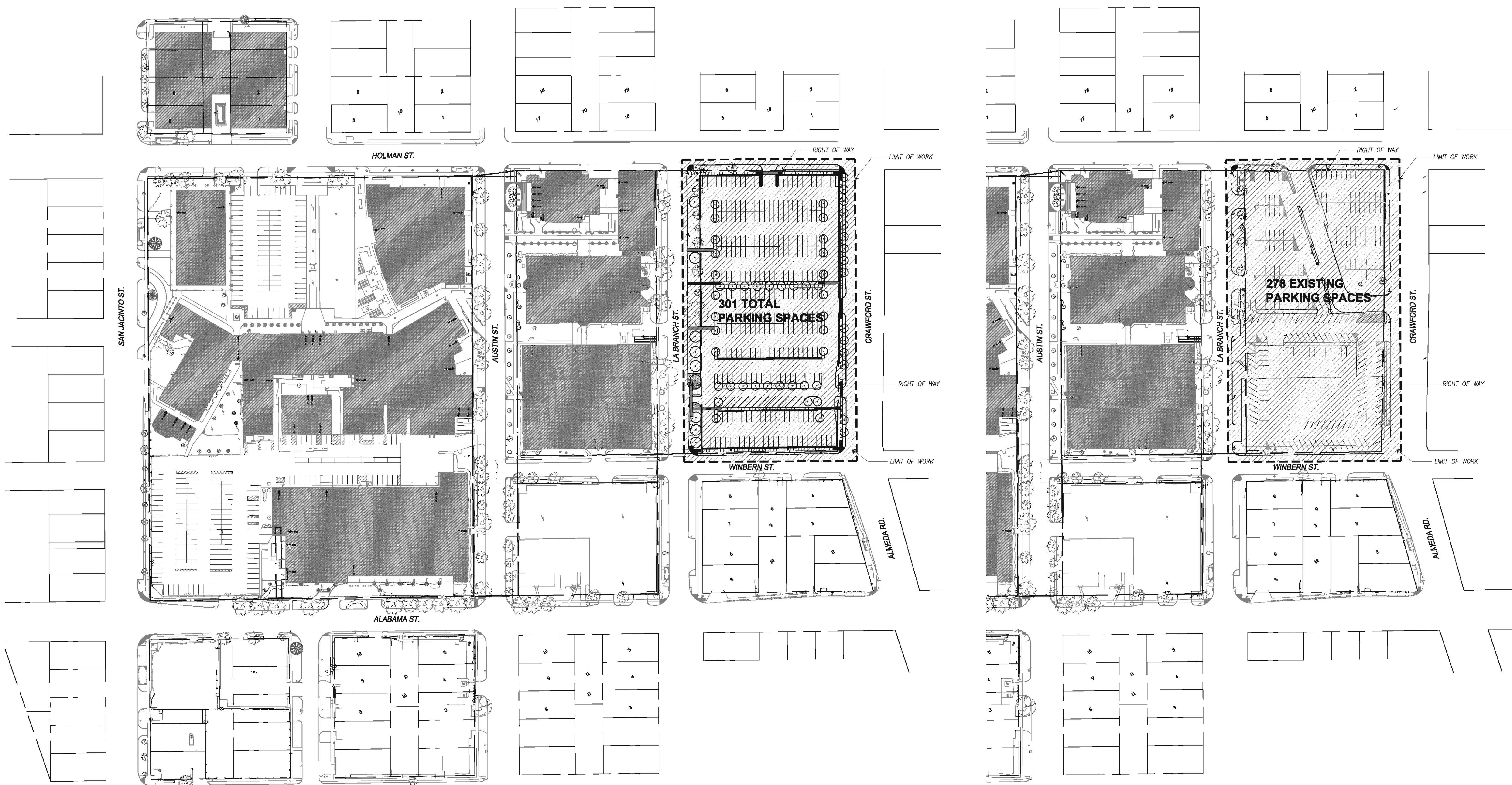
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Site Development
Plan

Scale: 1" = 80'-0"

AS-1.00



18 Site Development Plan
SCALE: 1"=80'-0"

SITE PLAN KEYNOTES
SEE A-51.02 FOR NOTES
AREA IN CONTRACT

7 Existing Parking Lot
SCALE: 1"=80'-0"

GENERAL NOTES:

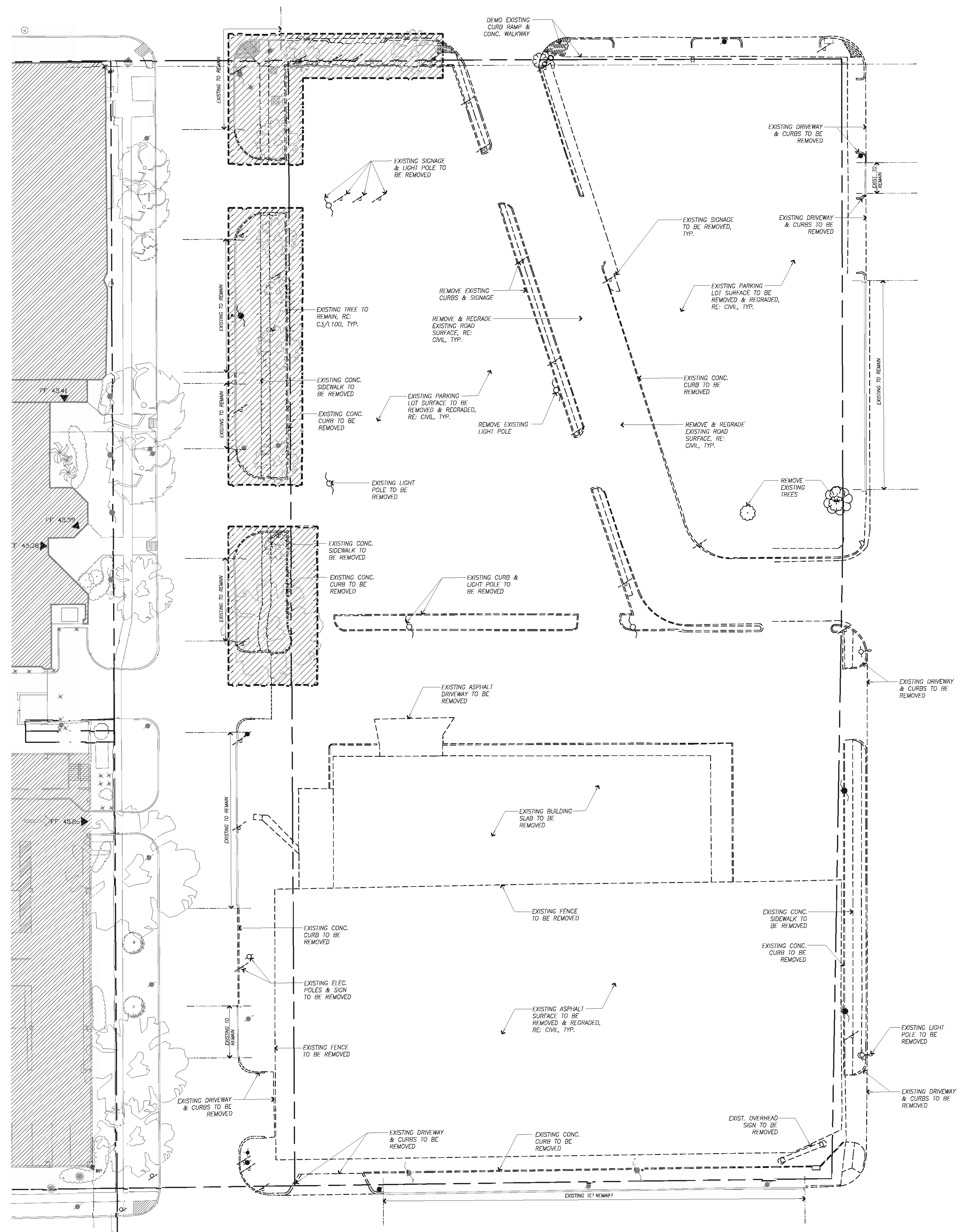
- 1. CONTRACTOR TO NOTIFY ARCHITECT OF ANY DIMENSIONAL DISCREPANCY FOUND IN FIELD THAT CONTRADICTS WHAT IS IN THE DOCUMENTS.
2. REFER TO IT/AV PACKAGE DRAWINGS SET FOR PHONE/DATA EXACT LOCATIONS. ALL CONSTRUCTION MUST CONFORM TO THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND TEXAS ACCESSIBILITY STANDARDS, WHICHEVER IS MOST STRINGENT. RE: 25A6.01
3. REFER TO MEP DRAWINGS FOR LIFE SAFETY DEVICE LOCATIONS.
4. ALL DETAILS OF CONSTRUCTION SHALL CONFORM WITH 2003 INTERNATIONAL BUILDING CODE AND ALL LOCAL PRESIDING CODES AND AMENDMENTS AND LEGAL DOCUMENTS.
5. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, AND TEMPORARY SUPPORTS, ETC.
6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE PRIOR TO THE APPLICATION OF ALL SHEAR WALLS, ROOF SHEATHING, STRUCTURAL ELEMENTS, AND FINISH MATERIALS.
7. ALL WORK RELATED TO EXISTING SOILS MUST FOLLOW HEALTH & SAFETY REPORT

LANDSCAPE REQUIREMENTS:

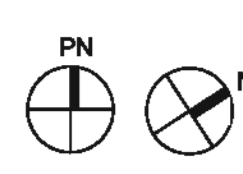
- Sec. 33-126, 127 AND 128.
A. STREET TREES: Length of property line in lineal feet as measured along each street separately.
1. HOLMAN STREET = 285 lineal feet/20=5.70 Street trees required along street TAKEN FOR PROVIDING 4" CALIPER TREES, 6 STREET TREES PROVIDED.
2. CRAWFORD STREET = 212 lineal feet/30=7.07 Street trees required along street TAKEN FOR PROVIDING 4" CALIPER TREES, 13 STREET TREES PROVIDED.
3. WINBERN STREET = 350 lineal feet/20=17.50 Street trees required along WINBERN STREET; 2 CREDITS TAKEN FOR PROVIDING 4" CALIPER TREES, 8 STREET TREES PROVIDED.
4. LA BRANCH STREET = 213 lineal feet/30=7.10 Street trees required along LA BRANCH STREET; 7 CREDITS TAKEN FOR PROVIDING 4" CALIPER TREES, 10 STREET TREES PROVIDED.
TOTAL NUMBER OF STREET TREES REQUIRED: 54
37 PROVIDED / 54 REQUIRED = 69% PROVIDED
B. PARKING LOT TREES: Number of parking stalls to be constructed 306/10 = 30.6 = 31 Parking LOT TREES REQUIRED: 50% MUST BE LARGE PARKING LOT TREE TYPES:
41 TREES PROVIDED, 41 PROVIDED / 31 REQUIRED = 132%
C. SHRUBS: Total number of street trees required, from A. above = 10 = 540 shrubs, 75% (405) MUST BE PLANTED ALONG THE PERIMETER OF THE PARKING LOT, 442 SHRUBS PROVIDED.
D. LANDSCAPE BUFFER: 6' high screening fence, or 15' wide evergreen planting strip.
Total length of property line adjacent to existing single-family residential, or limit of expansion adjacent to existing single-family residential. SCREEN FENCE NOT REQUIRED.
Sec. 33-122 (c) PROTECTED TREE REPLACEMENT: NOT APPLICABLE. NO TREES BEING REMOVED.
Sec. 33-123 (a) TREE PLANTING EQUIVALENCY CREDITS:
1. Proposed Street and Parking Lot trees equal to or exceeding 4" caliper times
1. 78 x 1 = 78 TREE CREDITS POSSIBLE; 17 CREDITS TAKEN
2. Depositing of monies with Parks and Recreation Department.
\$135 per fifteen gallon container grown tree. Proposed credits can not exceed 30% of C. above. Amount to be deposited = proposed credits from D.2 x \$135.00. \$0.
3. Preservation of on-site trees credit values per the following schedule in caliper:
minimum 4" to 8" cal. = 2 tree credits; D2L=0
greater than 8" but less than 12" cal. = 3 tree credits; D2L=0
12" and greater cal. = 4 tree credits; D2L=0
4. Credit for preserving existing right-of-way street trees. 0 credits
5. Proposed total number of tree credits: 1+2+3+4 = 78 AVAILABLE
17 trees requested for credit.

GENERAL NOTES:

1. CONTRACTOR TO NOTIFY ARCHITECT OF ANY DIMENSIONAL DISCREPANCY FOUND IN FIELD THAT CONTRADICTS WHAT IS IN THE DOCUMENTS.
2. ALL WORK RELATED TO EXISTING SOILS MUST FOLLOW HEALTH & SAFETY REPORT.
3. FOR SHADED AREAS ON DRAWING 9/AS-1.01, SEE 10/AS-6.00 & TREE PROTECTION DETAIL D3/1.1.00.
4. FOR SHADED AREAS ON DRAWING 9/AS-1.01 & 10/AS-6.00, DEMOLITION TO BE DONE BY HAND, SEE TREE PROTECTION DETAIL D3/1.1.00.
5. BREAK UP AND TEST SOIL IN ALL AREAS WHERE NEW PARKING LOT & STREET TREES ARE TO BE PLANTED.
6. AMEND SOIL AS REQUIRED BY SOIL TESTING RESULTS IN ALL AREAS WHERE NEW PARKING LOT & STREET TREES ARE TO BE PLANTED.
7. SHADED AREAS ON DRAWING 9/AS-1.01 ARE SHOWN FOR TYPICAL EXTENT OF SOIL WORK IN LOCATIONS UNDER NEW STREET & PARKING LOT TREES. SOIL WORK TO BE PERFORMED WHERE ALL NEW TREES ARE LOCATED.



9 Site Demolition Plan
SCALE: 1"=20'-0"



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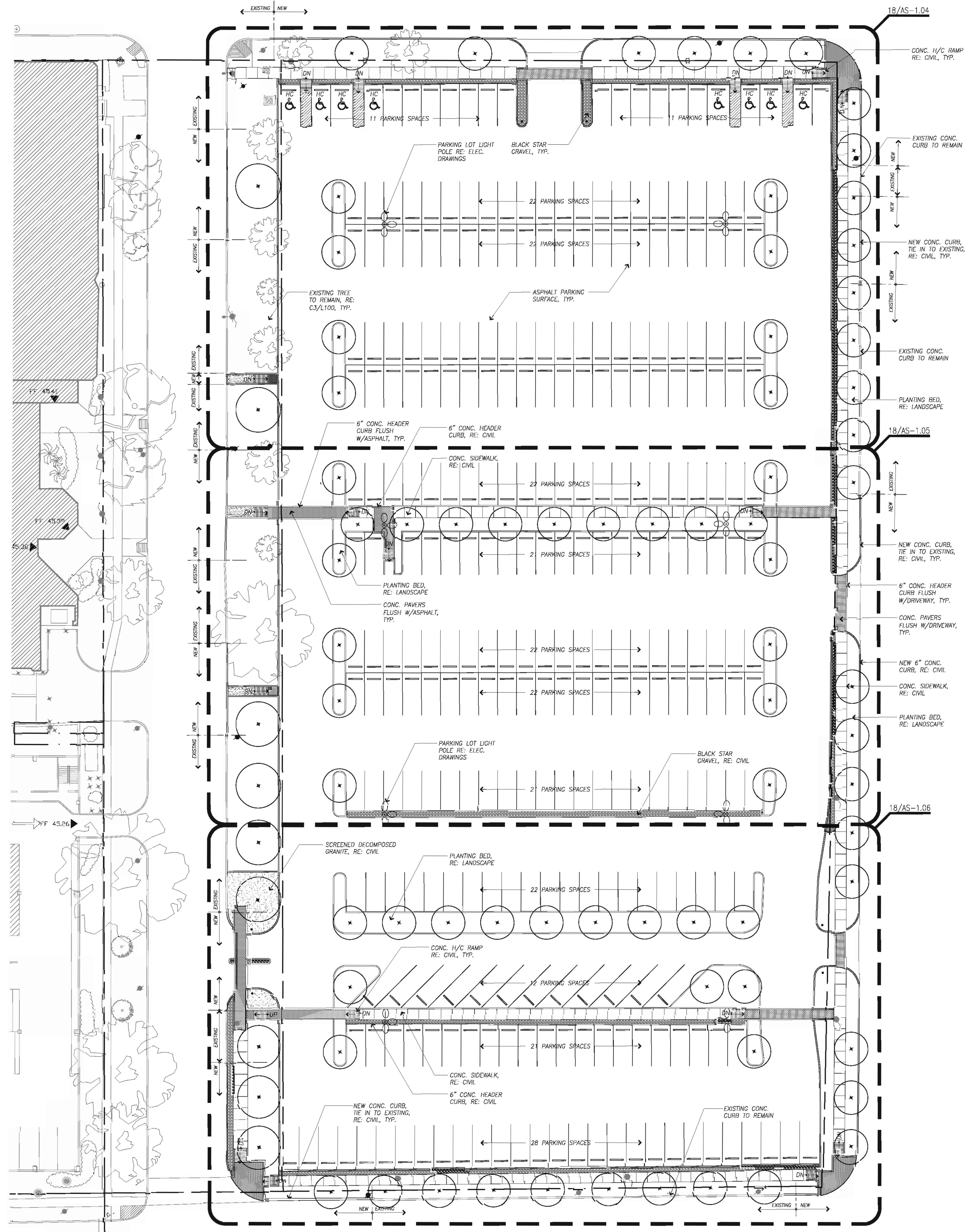
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**Site Demolition
Plan**

Scale: 1" = 20'-0"

AS-1.01



9 Architectural Site Plan
SCALE: 1"=20'-0"



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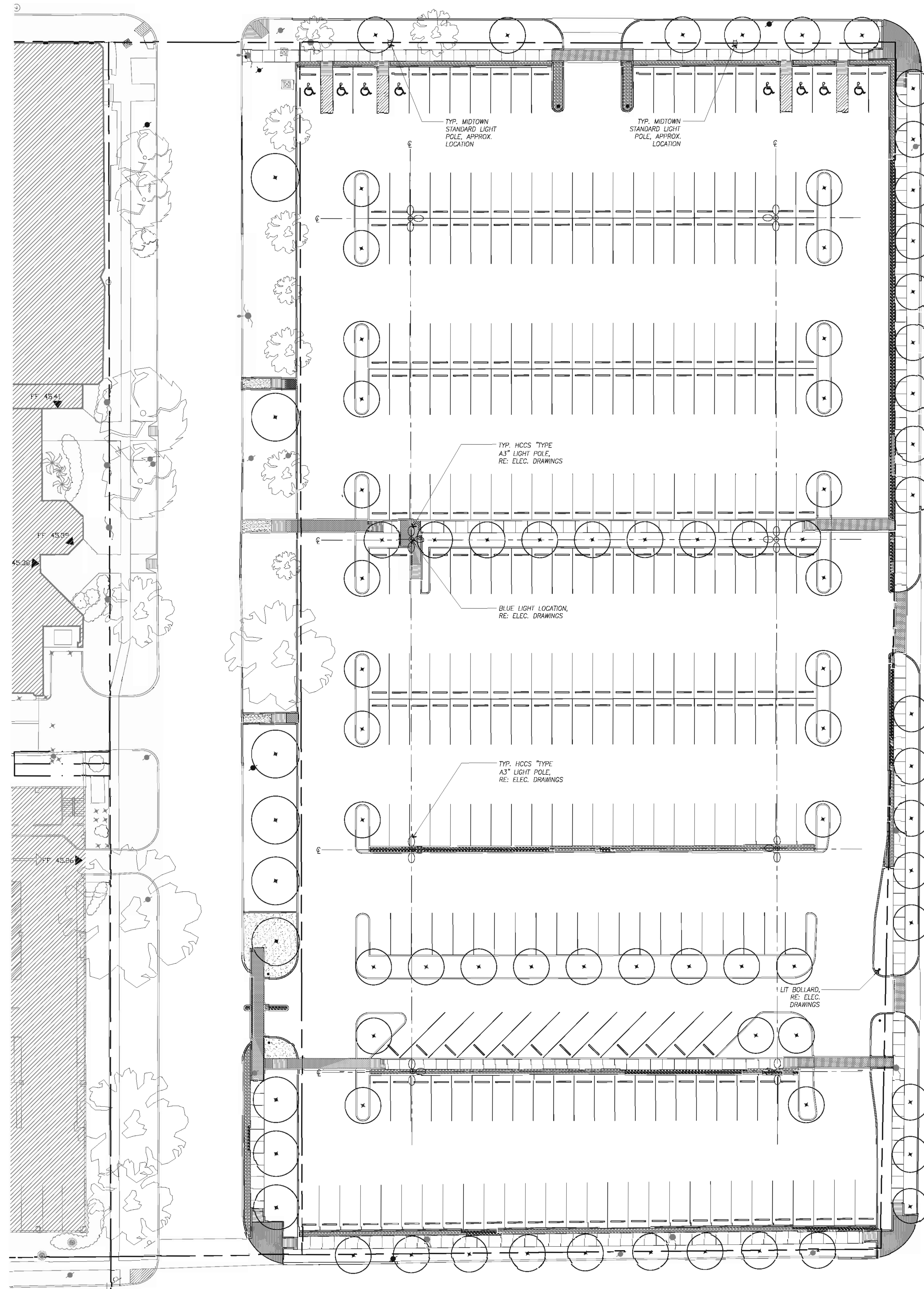
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Architectural
Site Plan

Scale: 1" = 20'-0"

AS-1.02



9 Architectural Lighting Plan
 SCALE: 1"=20'-0"
 PN



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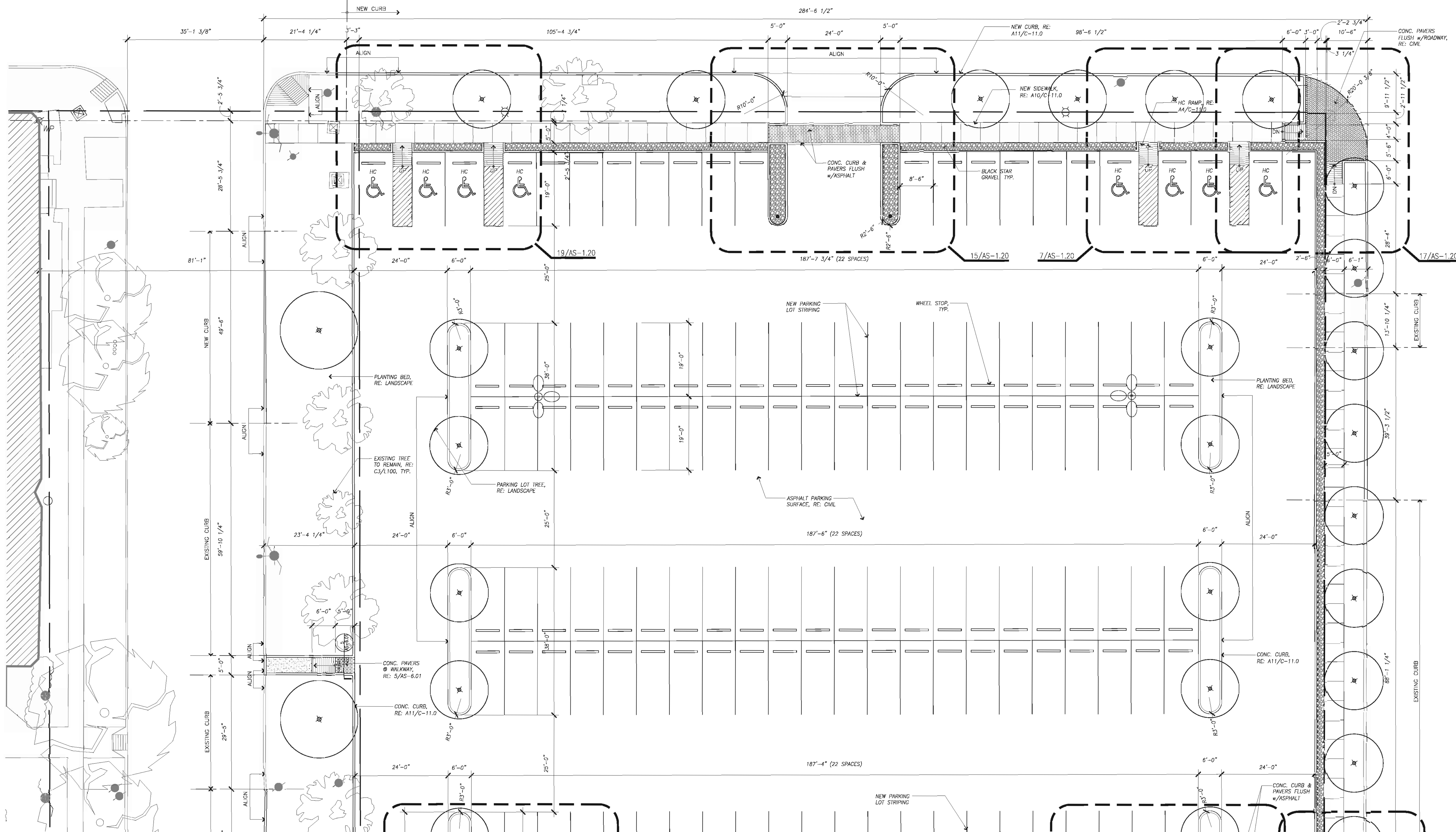
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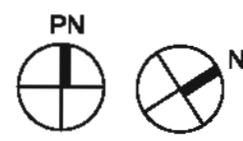
**Architectural
 Lighting Plan**

Scale: 1" = 20'-0"

AS-1.03



18 Enlarged Site Plan
 SCALE: 3/32" = 1'-0"



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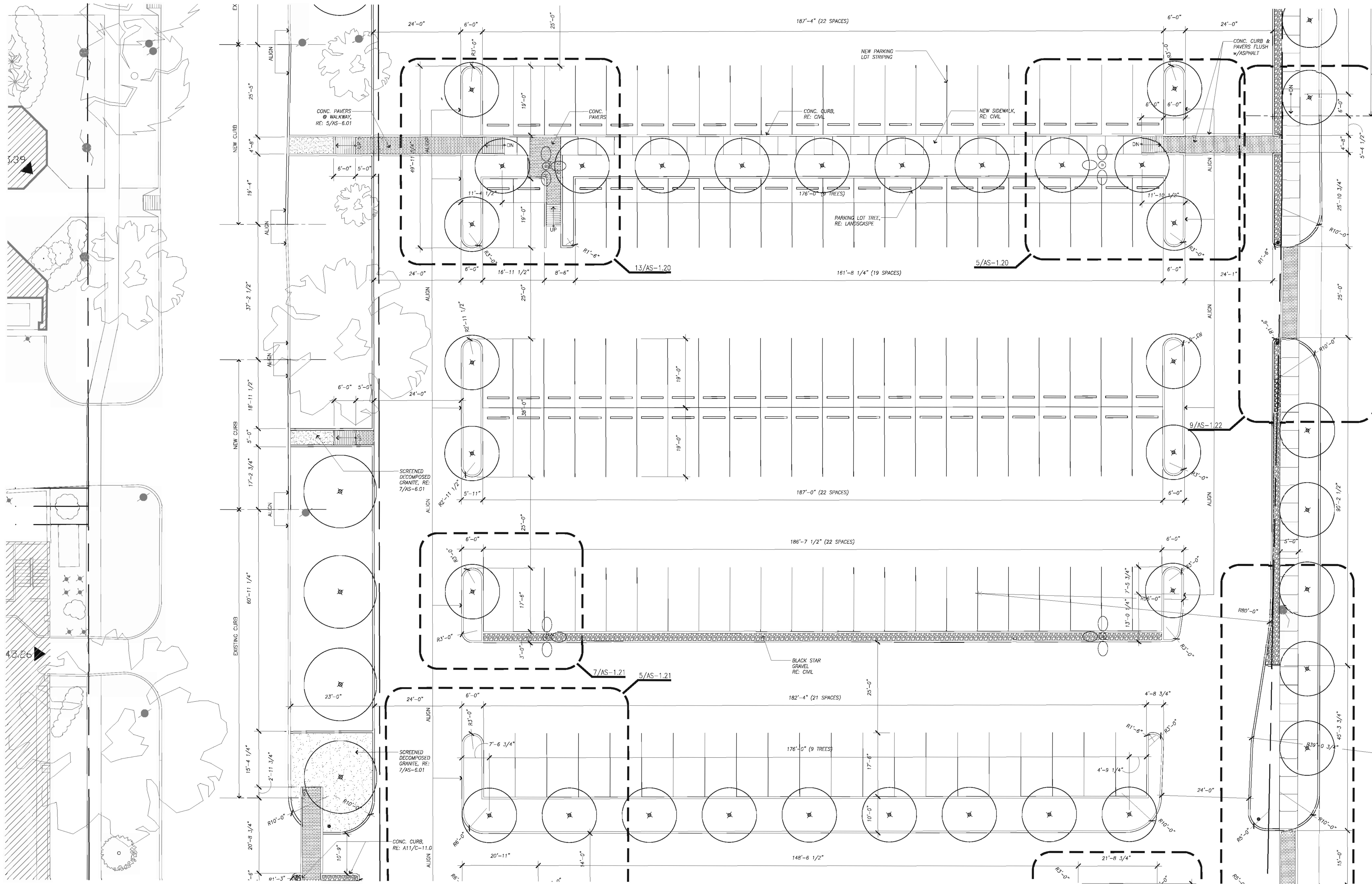
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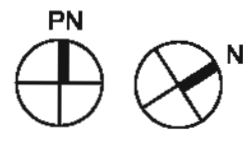
**Enlarged
 Site Plan**

Scale: 3/32" = 1'-0"

AS-1.04



18 Enlarged Site Plan
 SCALE: 3/32" = 1'-0"



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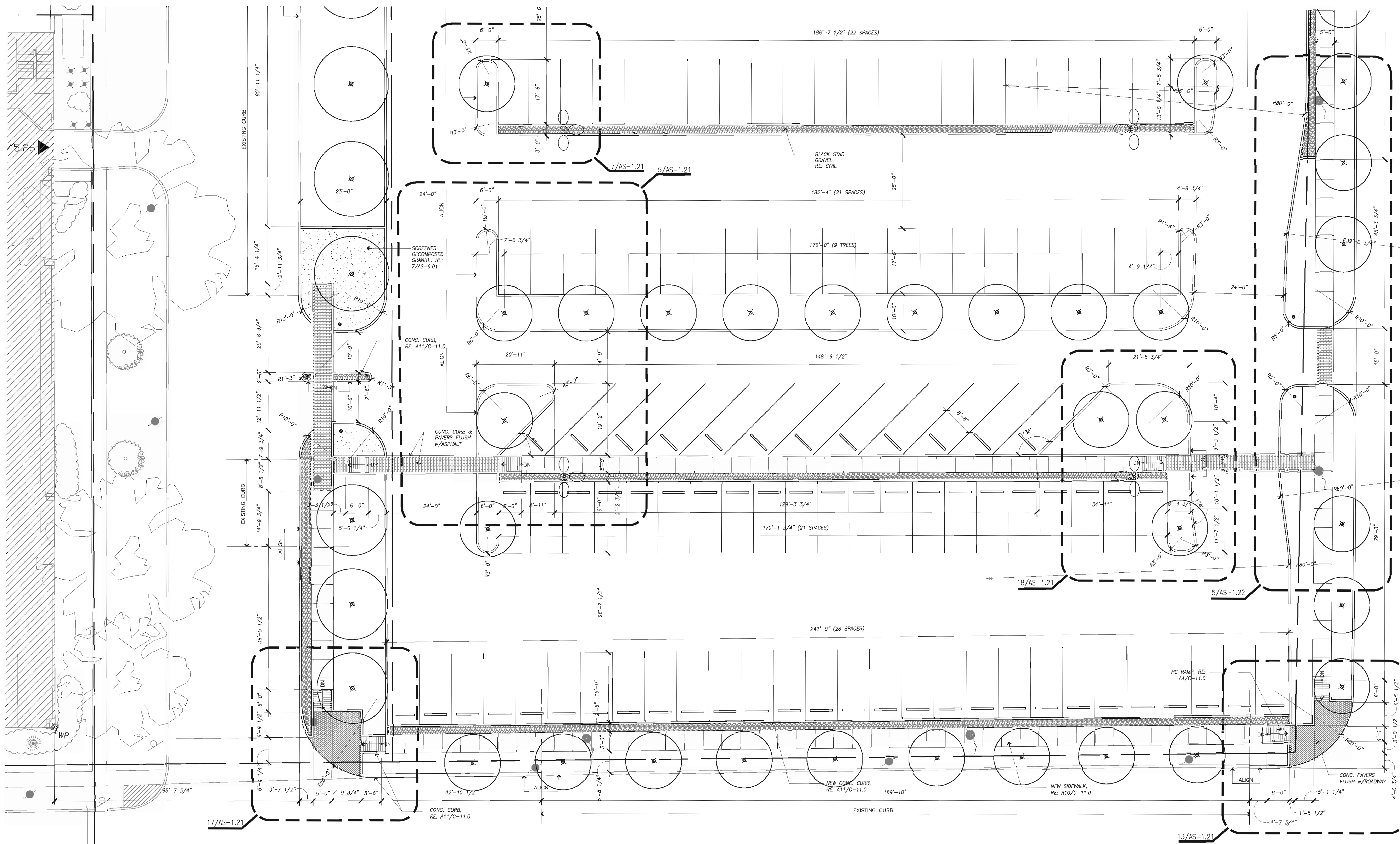
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**Enlarged
 Site Plan**

Scale: 3/32" = 1'-0"

AS-1.05



18 Enlarged Site Plan
 SCALE: 3/32" = 1'-0"
 PN



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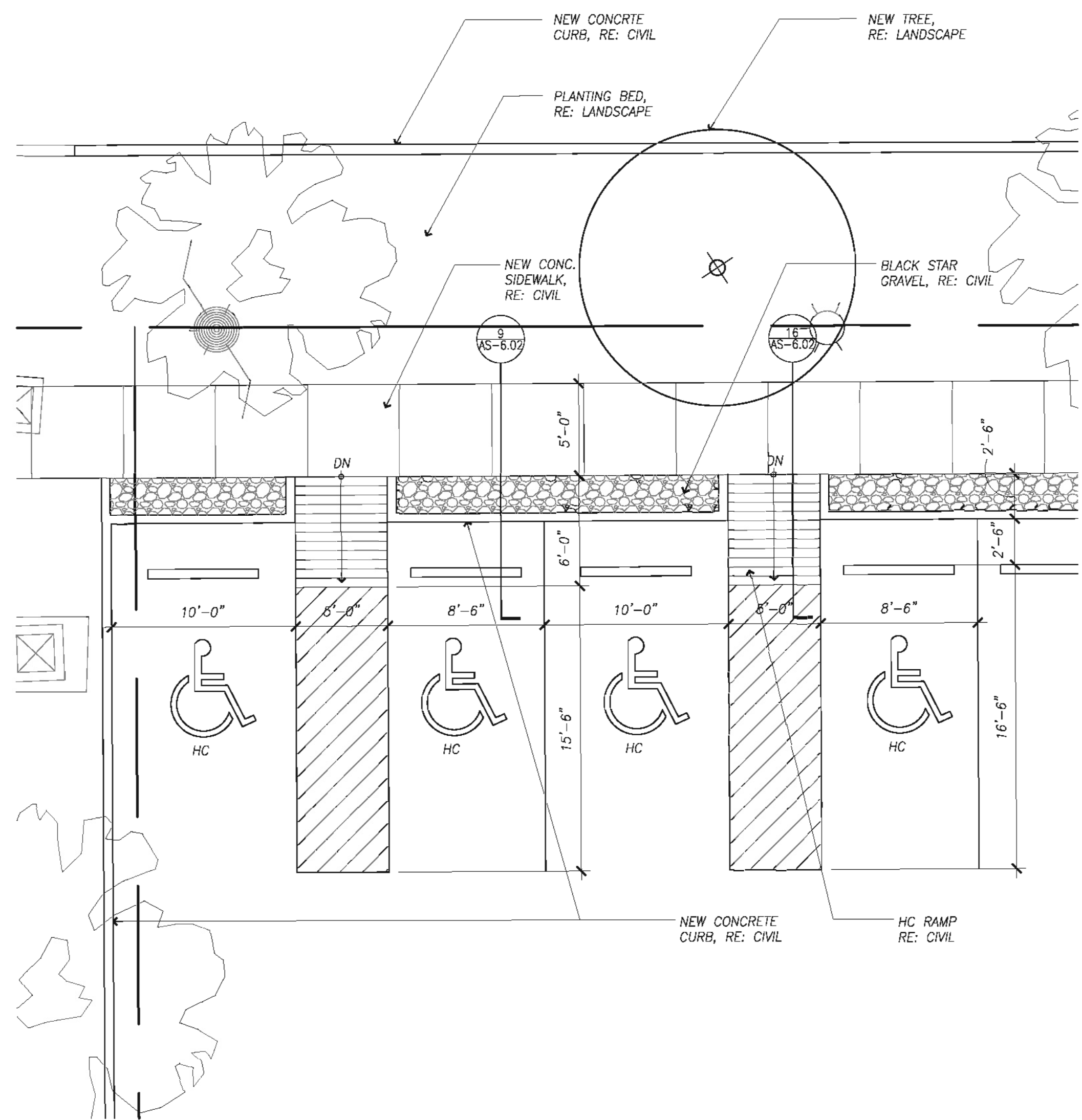
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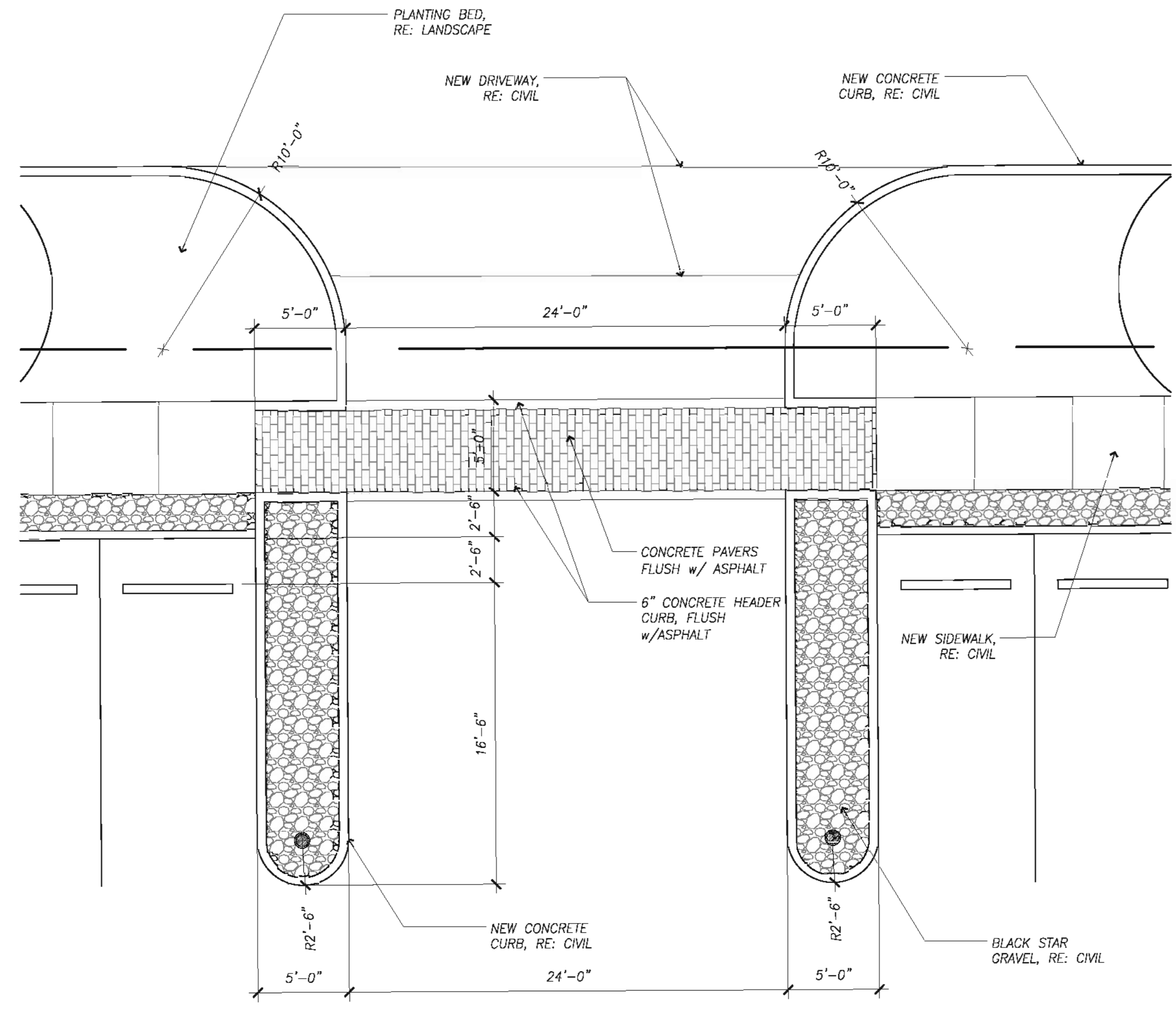
Enlarged
Site Plan

Scale: 3/32" = 1'-0"

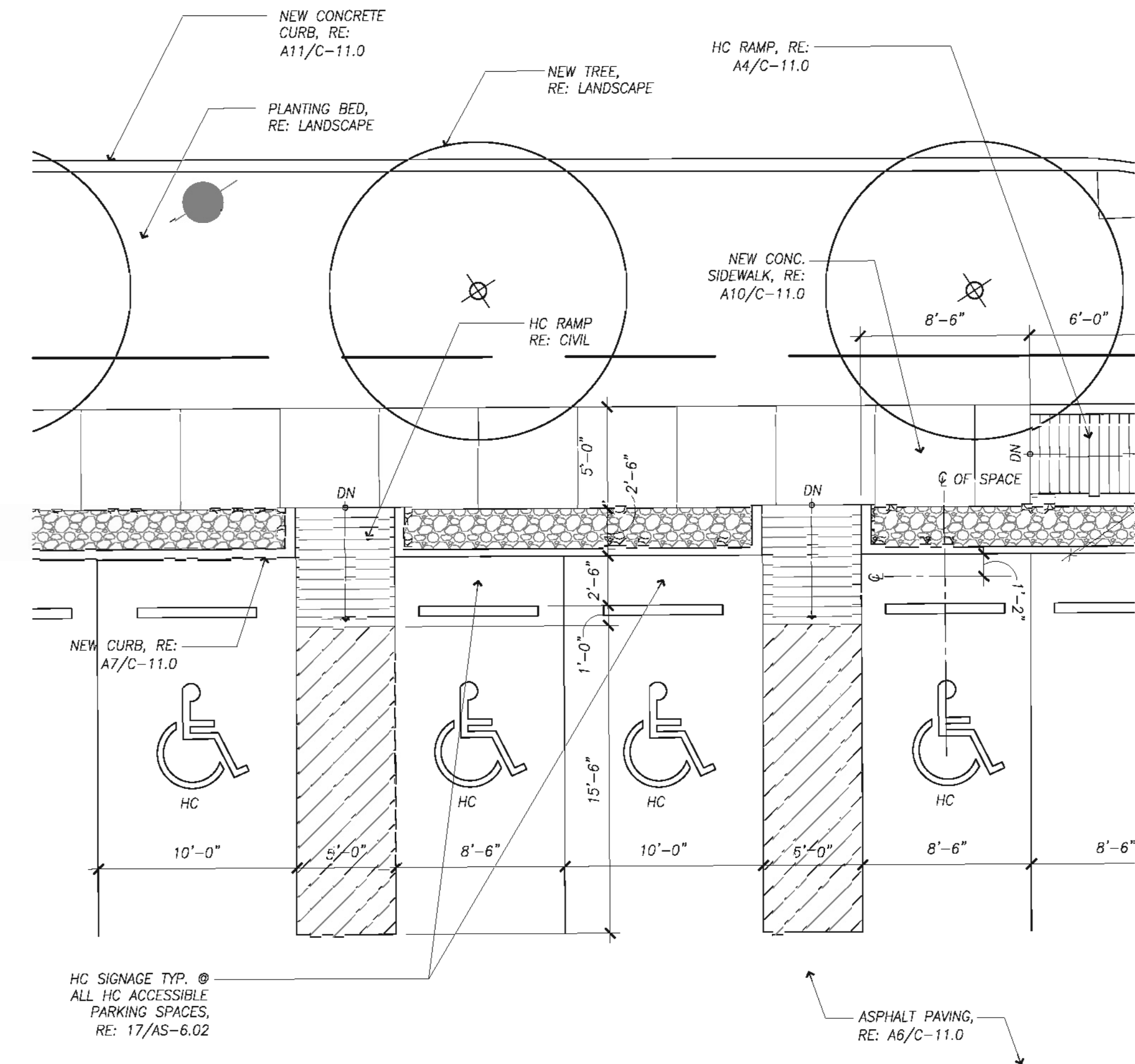
AS-1.06



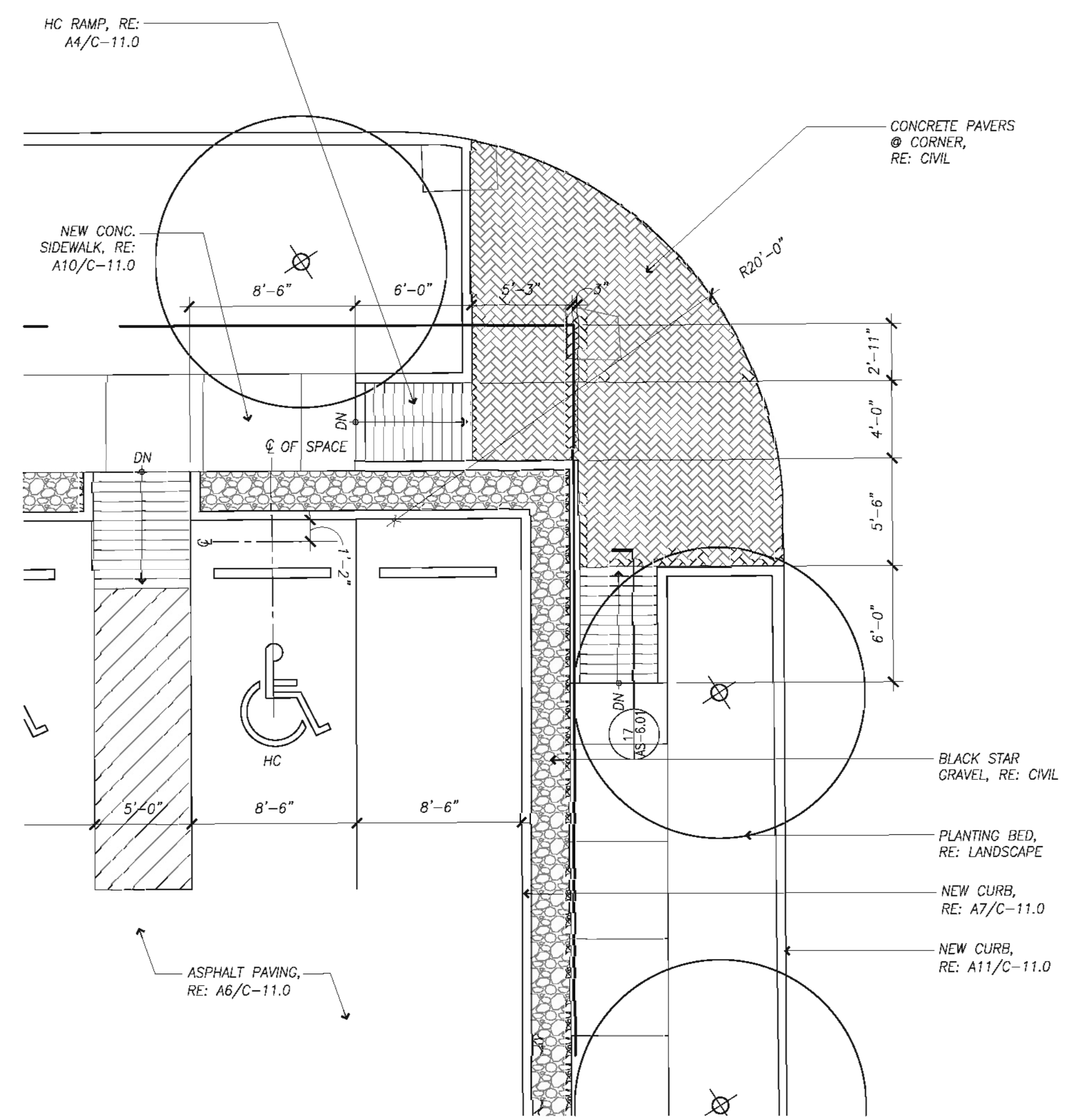
19 Detail Plan
SCALE: 3/16"=1'-0"
PN N



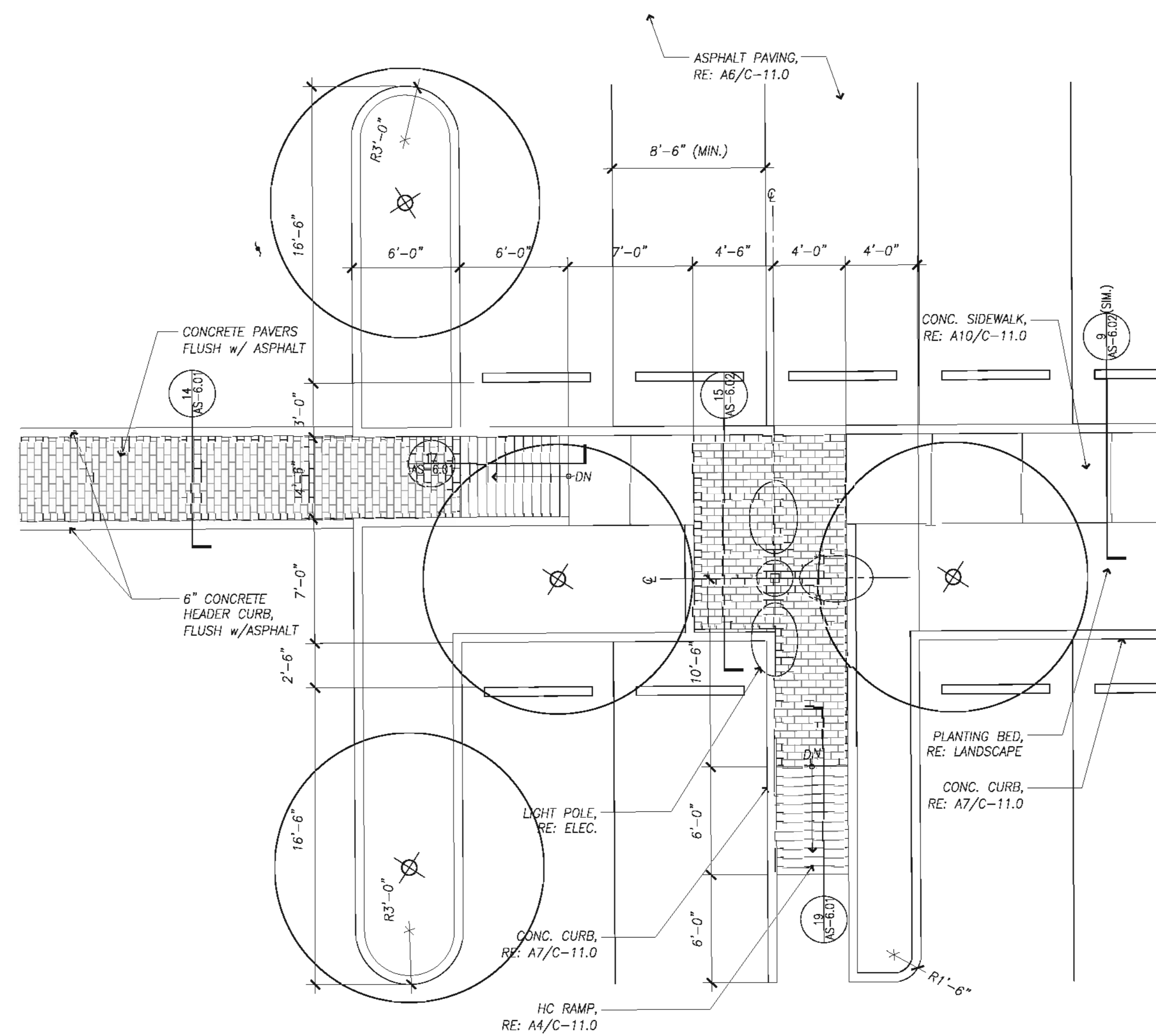
15 Detail Plan
SCALE: 3/16"=1'-0"
PN N



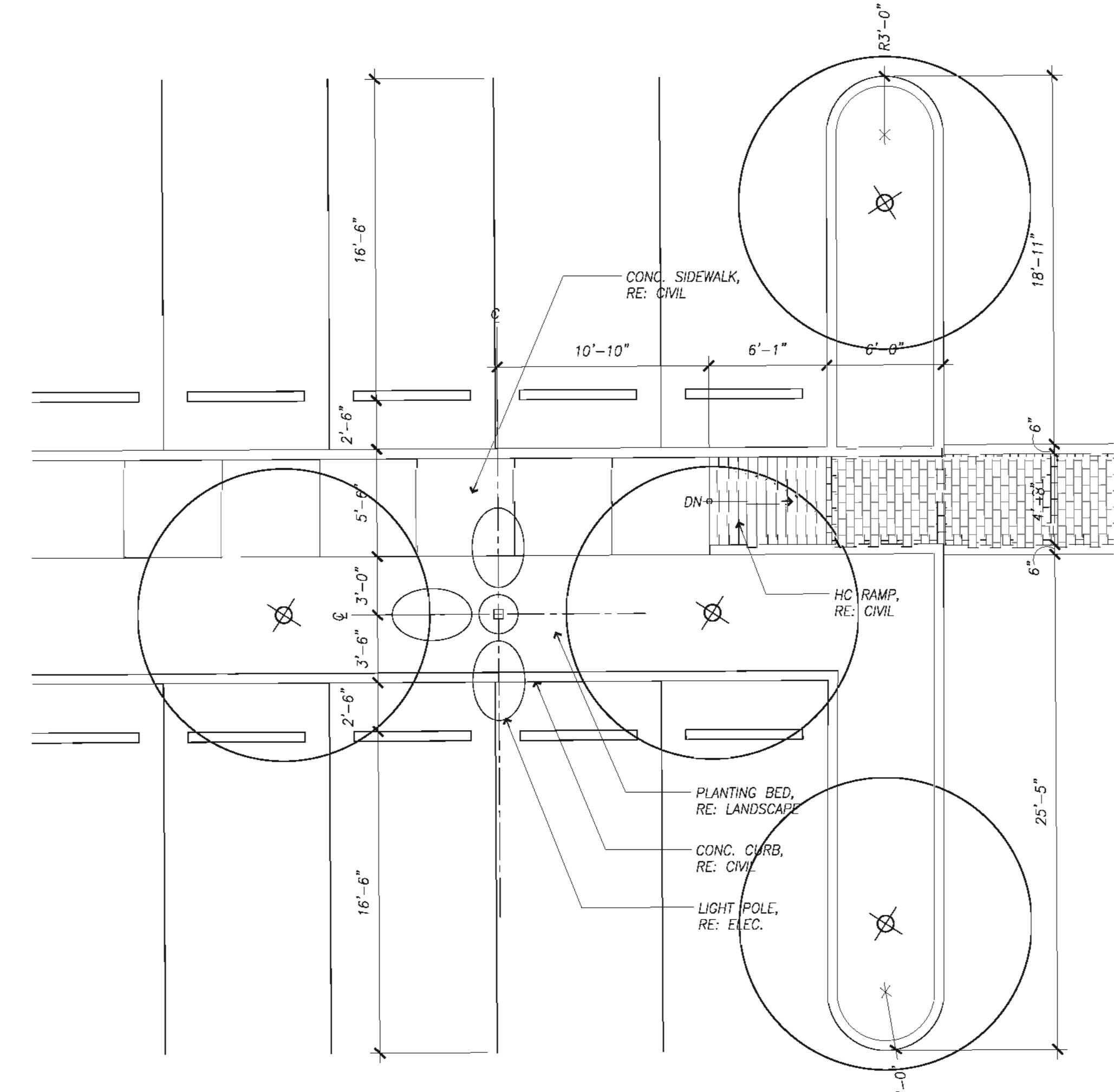
7 Detail Plan
SCALE: 3/16"=1'-0"
PN N



17 Detail Plan
SCALE: 3/16"=1'-0"
PN N



13 Detail Plan
SCALE: 3/16"=1'-0"
PN N

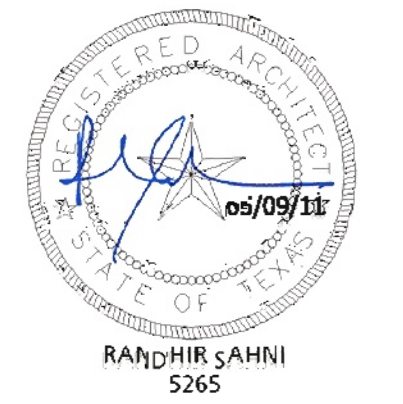


5 Detail Plan
SCALE: 3/16"=1'-0"
PN N



**Houston
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Issue/Revision:

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR BID & CONSTRUCTION	05/08/11	JA

Ilwelyn-davies sahn
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Houston, Texas 77002
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**Central Campus
Parking Lot Improvements**
1300 Holman Street
Houston, TX 77004

Contract No.: AVE Project No.:
Drawn By: XX Date: XXXX/XX
Checked By: Date:
Approved By: Date:

Ownership of Instruments of Service:
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**Detail
Plans**

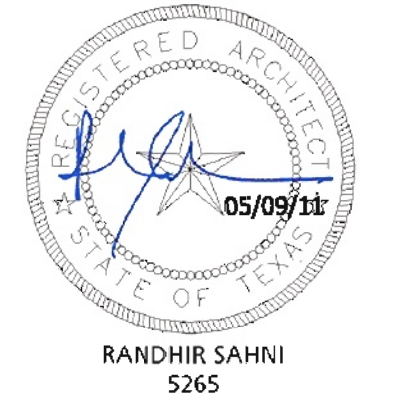
Scale: 3/16" = 1'-0"

AS-1.20



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**Central Campus
Parking Lot Improvements**
1300 Holman Street
Houston, TX 77004

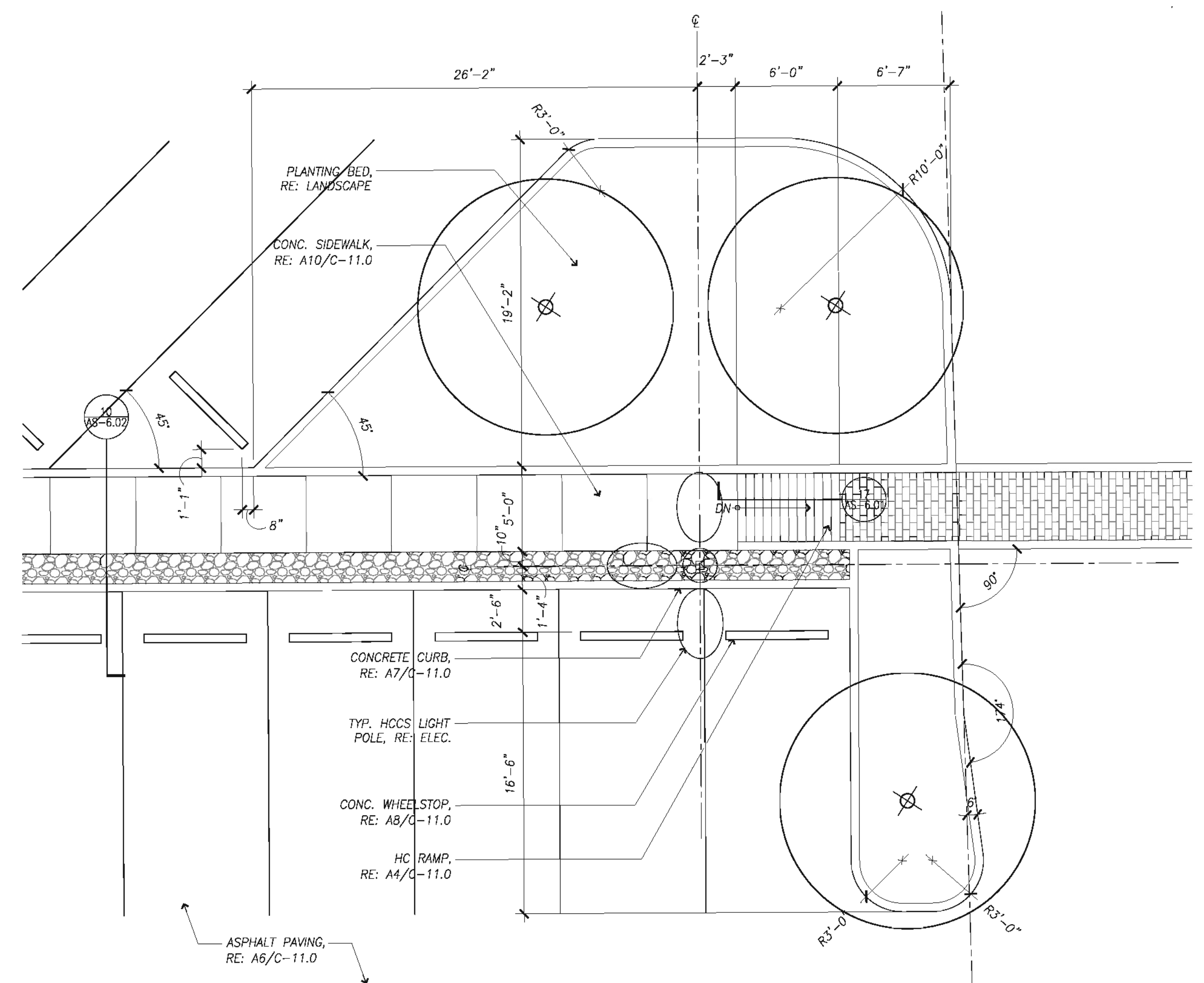
Contract No.: A/E Project No.:
Drawn By: XX Date: XXX/XX/XX
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Approved By: Date:

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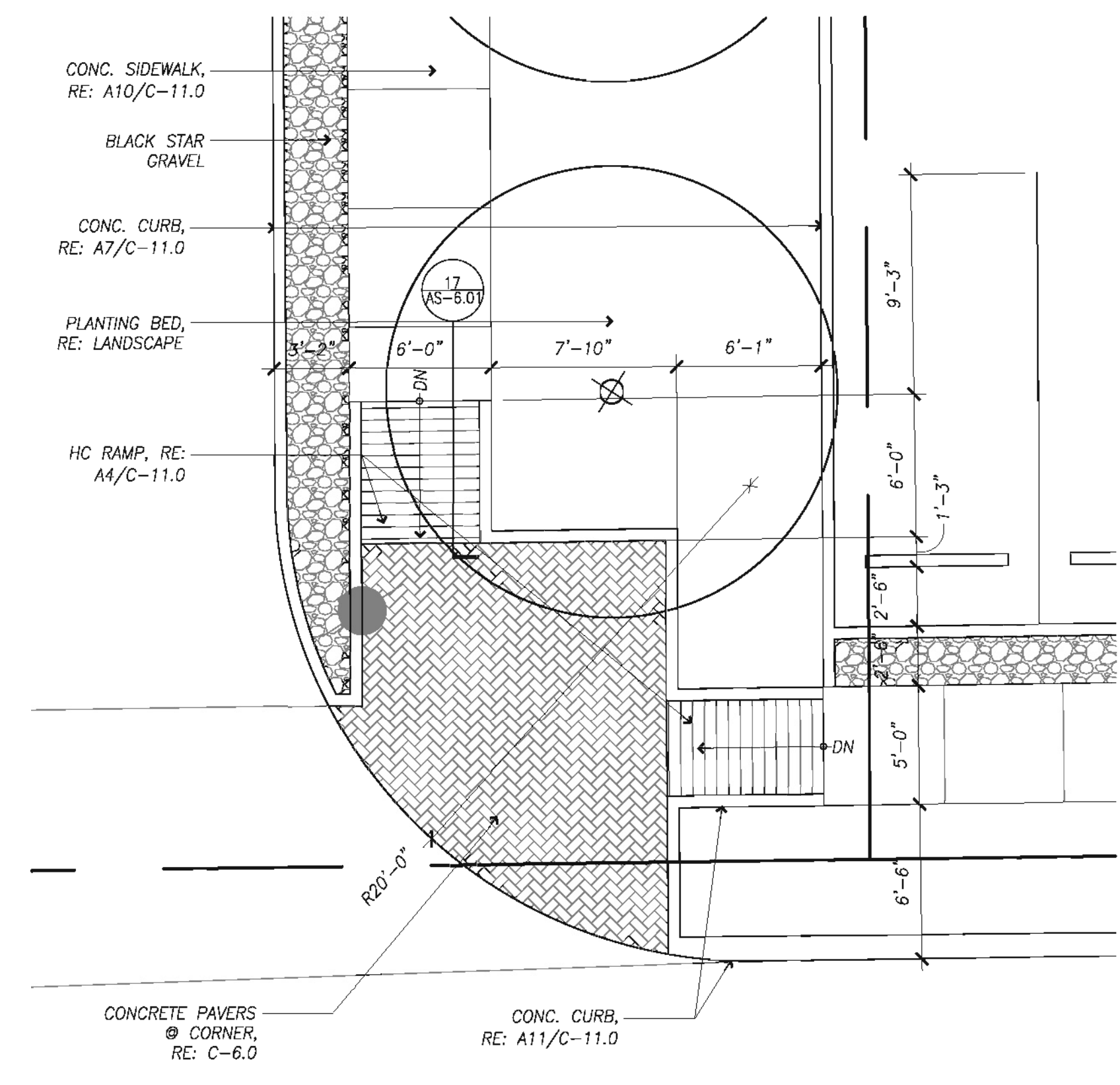
**Detail
Plans**

Scale: 3/16" = 1'-0"

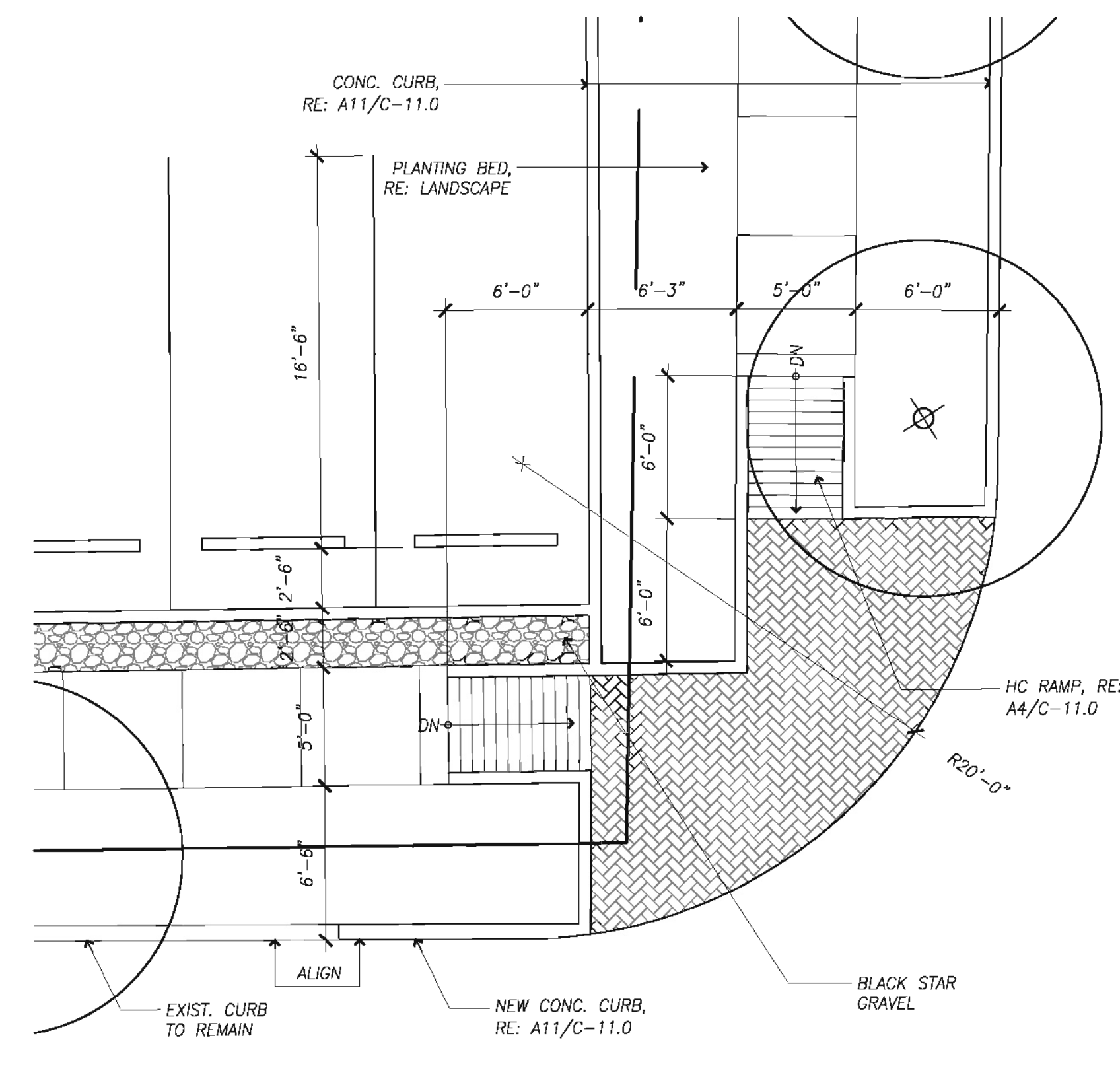
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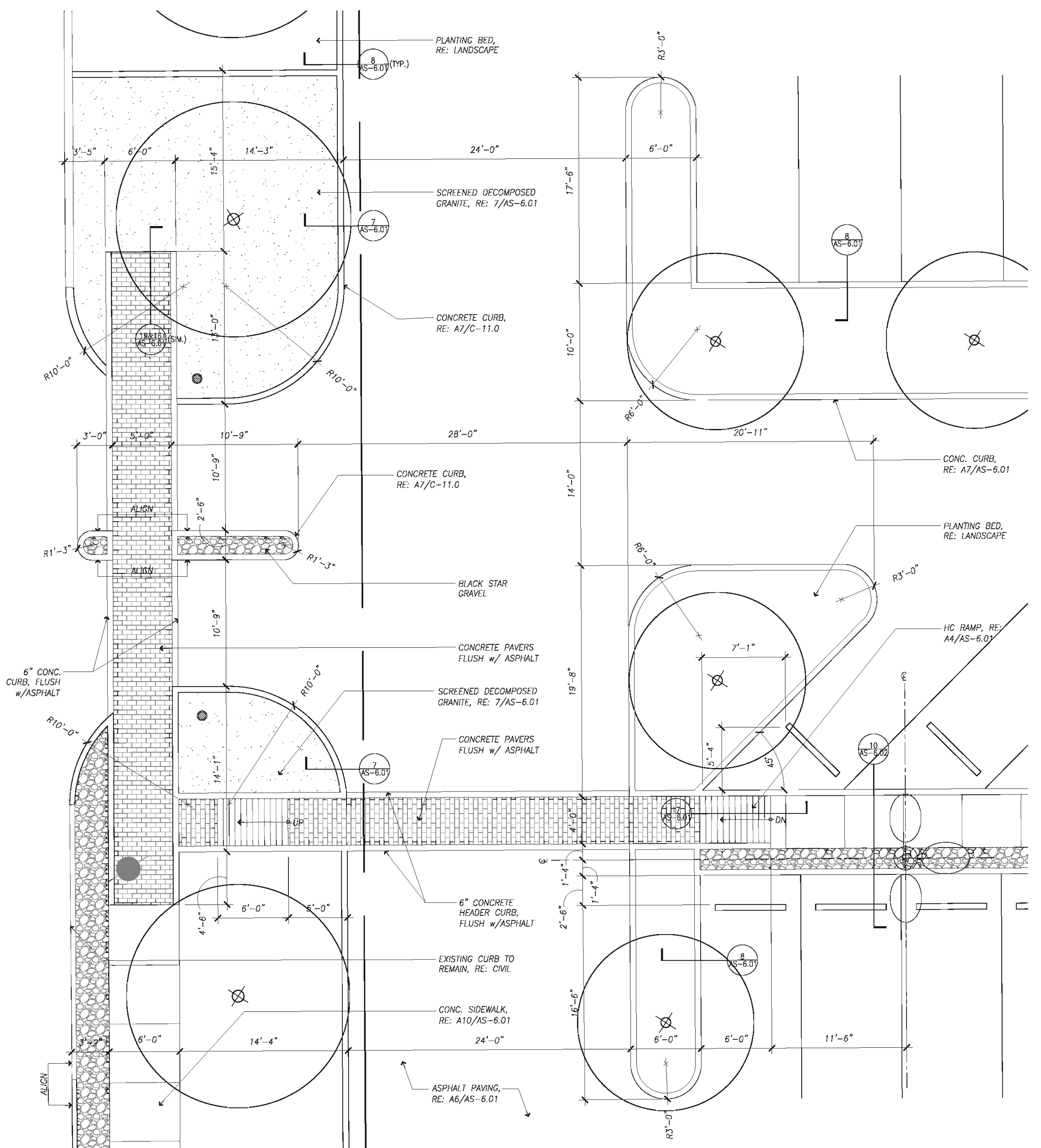
18 Detail Plan
SCALE: 3/16"=1'-0"



17 Detail Plan
SCALE: 3/16"=1'-0"



13 Detail Plan
SCALE: 3/16"=1'-0"



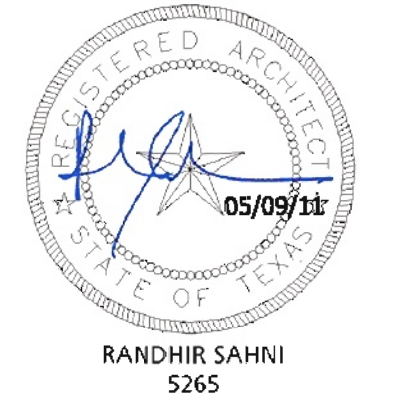
7 Detail Plan
SCALE: 3/16"=1'-0"

5 Detail Plan
SCALE: 3/16"=1'-0"



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1	ISSUED FOR BID & CONSTRUCTION	05/08/11	JA

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TYPE F PER NO. F-20024-B

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**Central Campus
Parking Lot Improvements**
1300 Holman Street
Houston, TX 77004

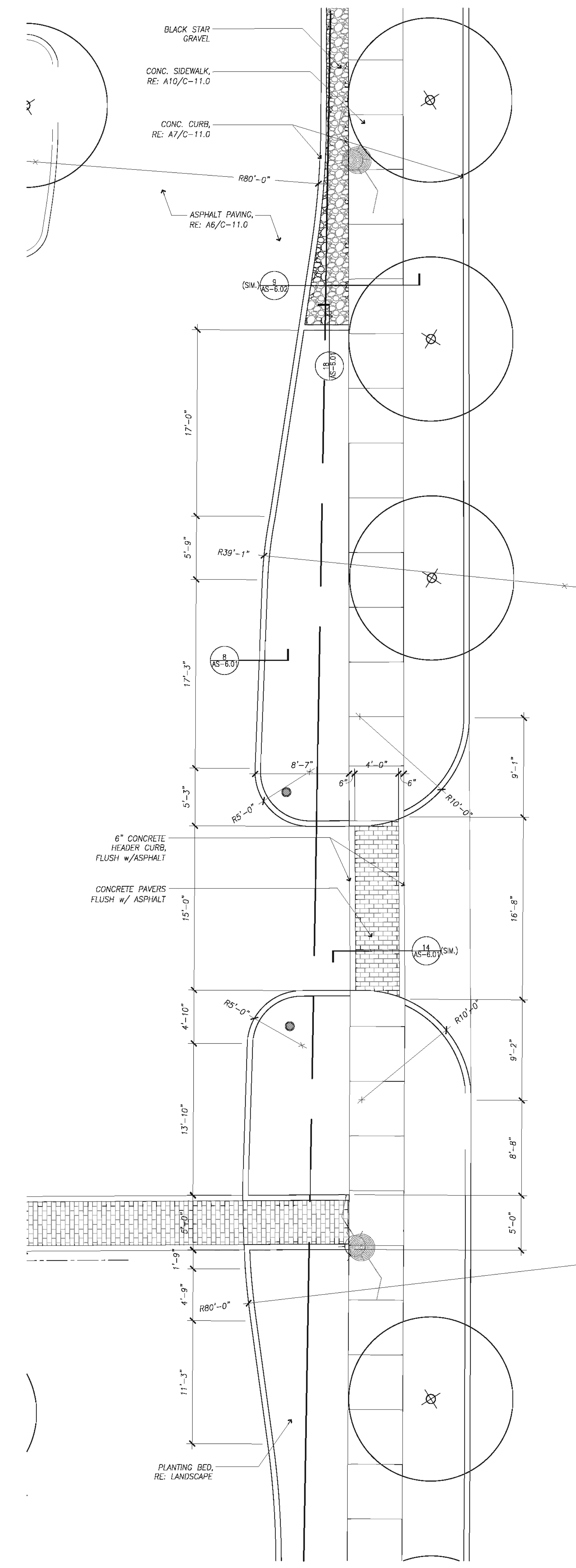
Contract No.: A/E Project No.:
Drawn By: XX Date: XXX/XX/XX
Checked By: Date:
Approved By: Date:

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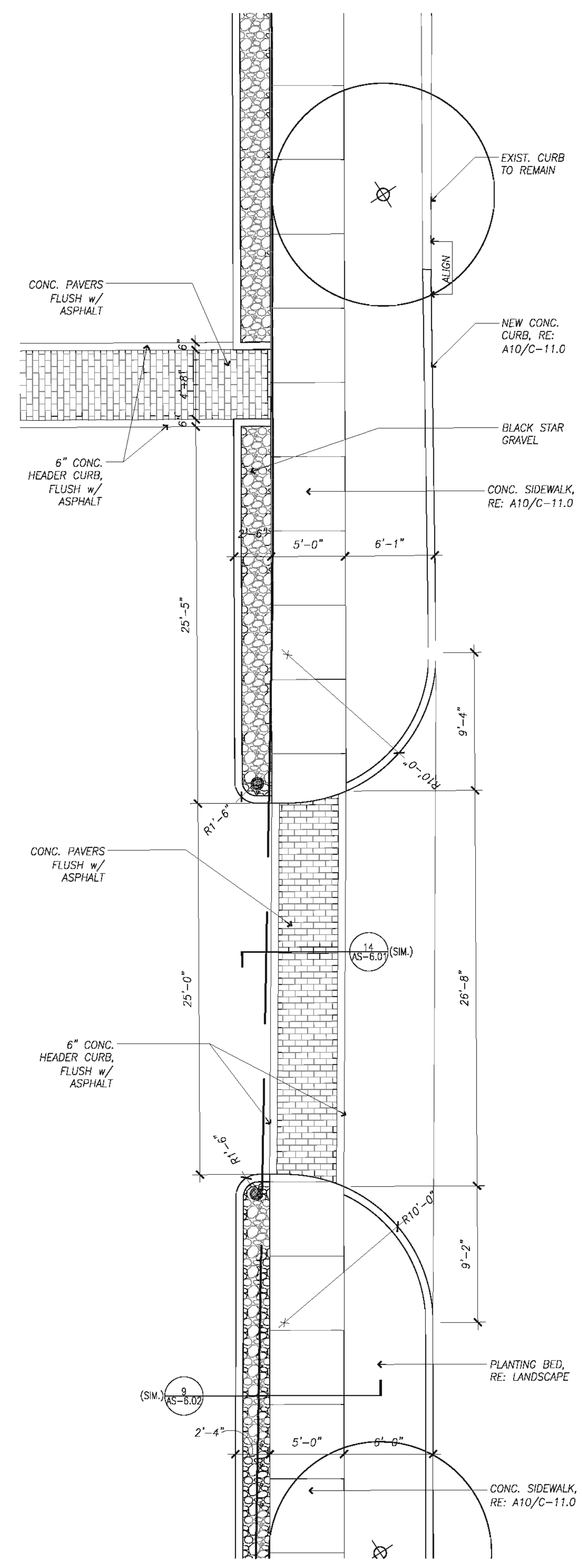
**Detail
Plans**

Scale: 3/16" = 1'-0"

AS-1.22



5 Detail Plan
SCALE: 3/16" = 1'-0"
PN



9 Detail Plan
SCALE: 3/16" = 1'-0"
PN



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**Central Campus
Parking Lot Improvements**
1300 Holman Street
Houston, TX 77004

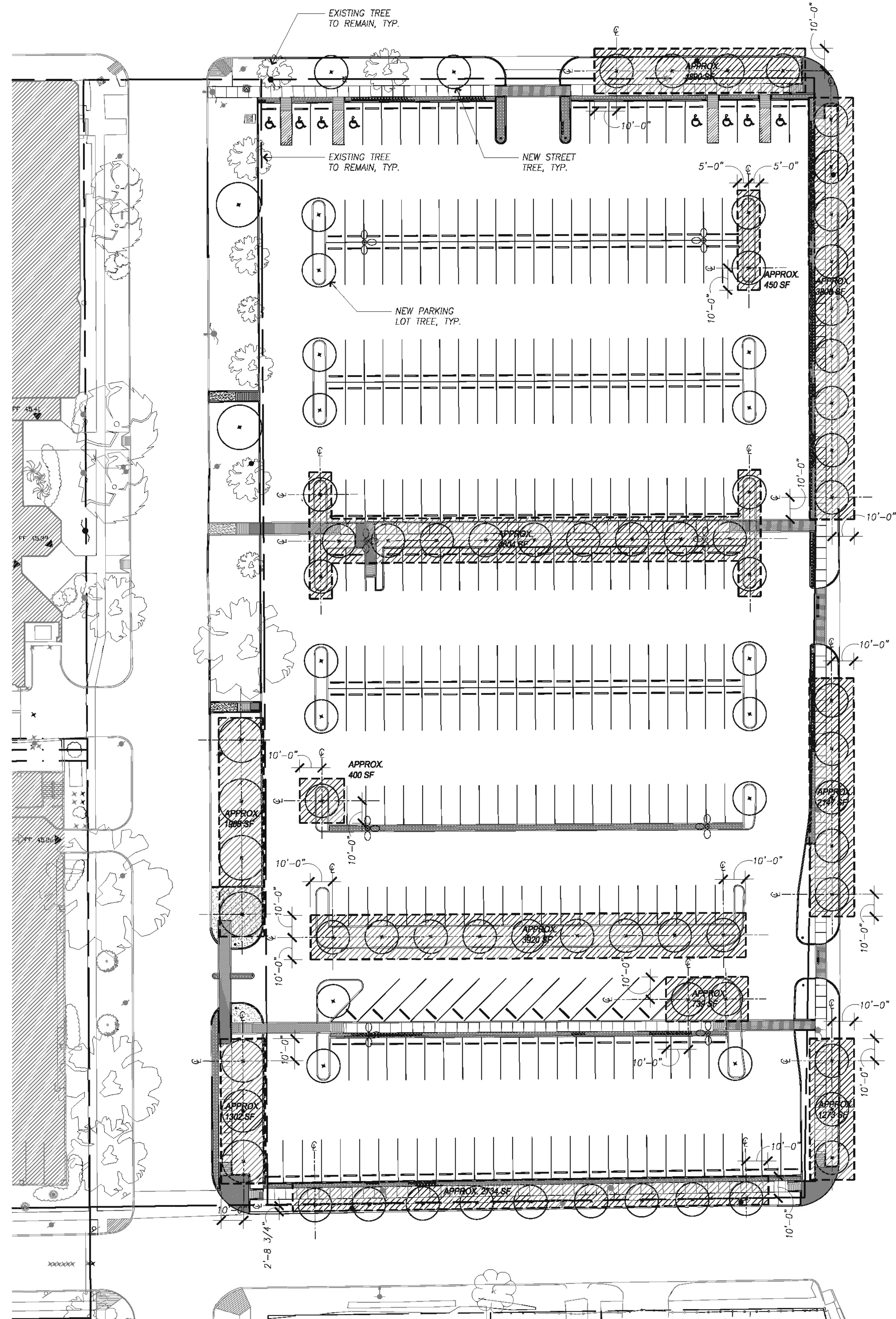
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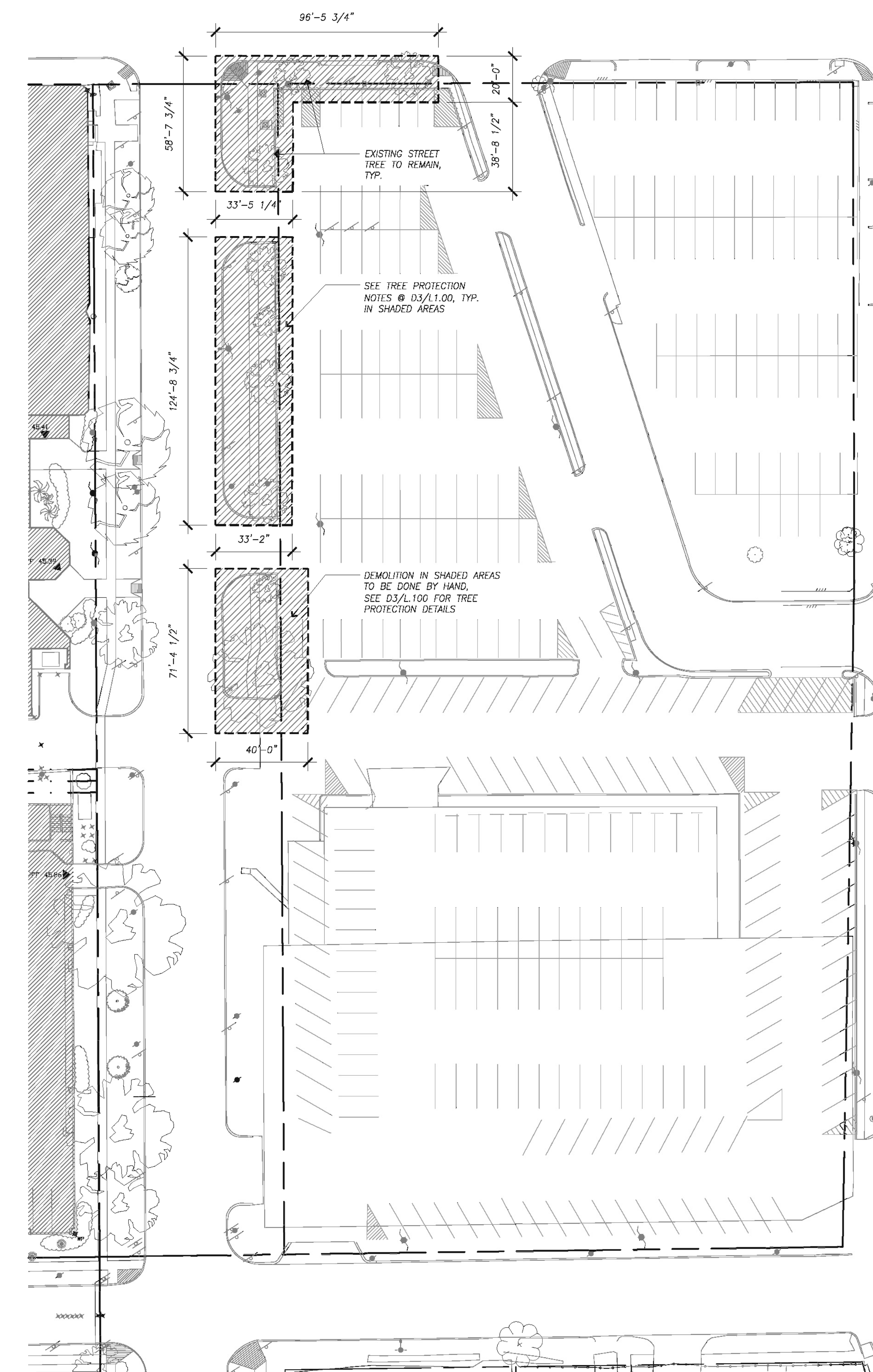
**Soil Amendment &
Tree Protection Plan**

Scale: 1" = 20'-0"

AS-6.00



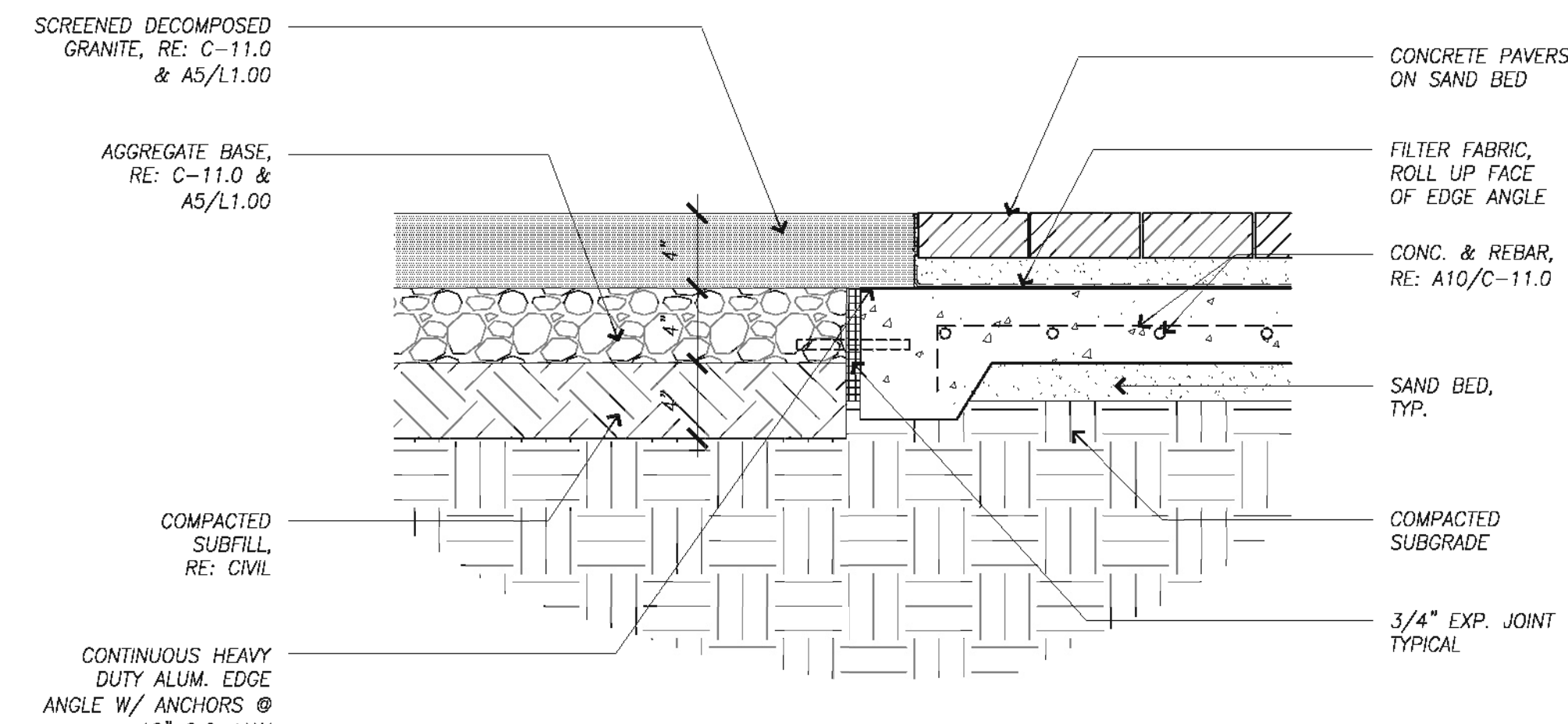
18 Proposed Site Plan
SCALE: 1" = 30'-0"



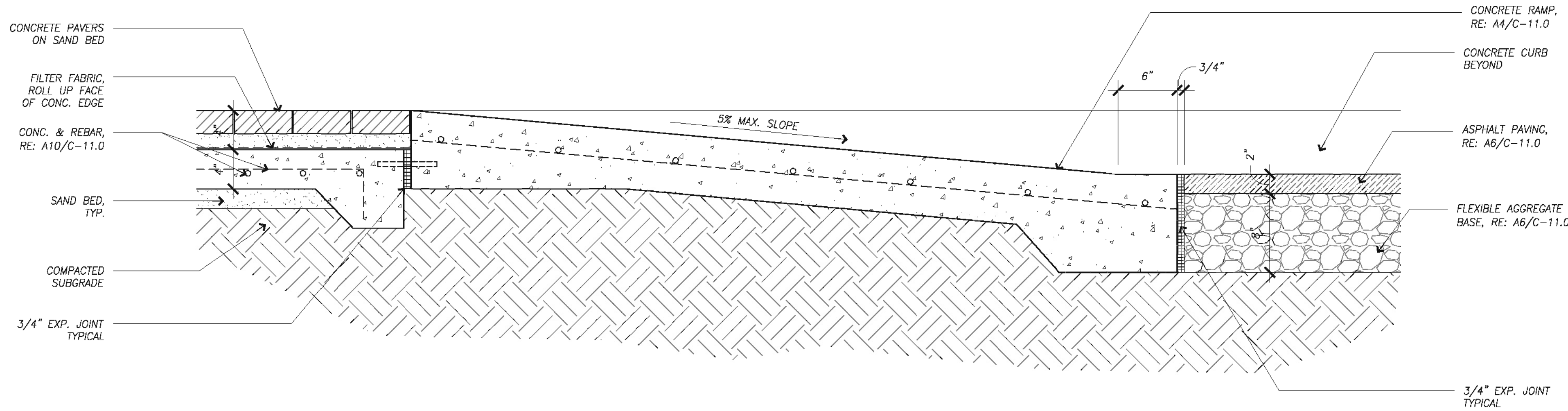
10 Existing Site Plan
SCALE: 1" = 30'-0"

GENERAL NOTES:

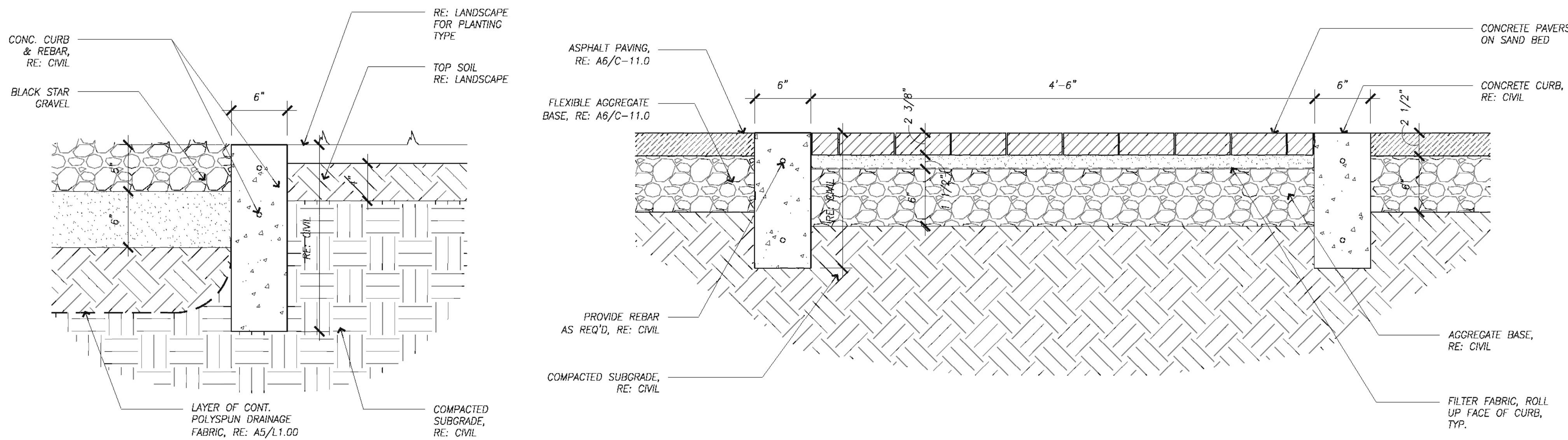
- CONTRACTOR TO NOTIFY ARCHITECT OF ANY DIMENSIONAL DISCREPANCY FOUND IN FIELD THAT CONTRADICTS WHAT IS IN THE DOCUMENTS.
- ALL WORK RELATED TO EXISTING SOILS MUST FOLLOW HEALTH & SAFETY REPORT
- FOR SHADED AREAS ON DRAWING 10/AS-6.00, SEE TREE PROTECTION DETAIL D3/L1.00.
- FOR SHADED AREAS ON DRAWING 10/AS-6.00, DEMOLITION TO BE DONE BY HAND, SEE TREE PROTECTION DETAIL D3/L1.00.
- BREAK UP AND TEST SOIL IN ALL AREAS WHERE NEW PARKING LOT & STREET TREES ARE TO BE PLANTED.
- AMEND SOIL AS REQUIRED BY SOIL TESTING RESULTS IN ALL AREAS WHERE NEW PARKING LOT & STREET TREES ARE TO BE PLANTED.
- SHADED AREAS ON DRAWING 18/AS-6.00 ARE SHOWN FOR TYPICAL EXTENT OF SOIL WORK IN LOCATIONS UNDER NEW STREET & PARKING LOT TREES. SOIL WORK TO BE PERFORMED WHERE ALL NEW TREES ARE LOCATED.



16 PAVER DETAIL
SCALE: 1 1/2"=1'-0"

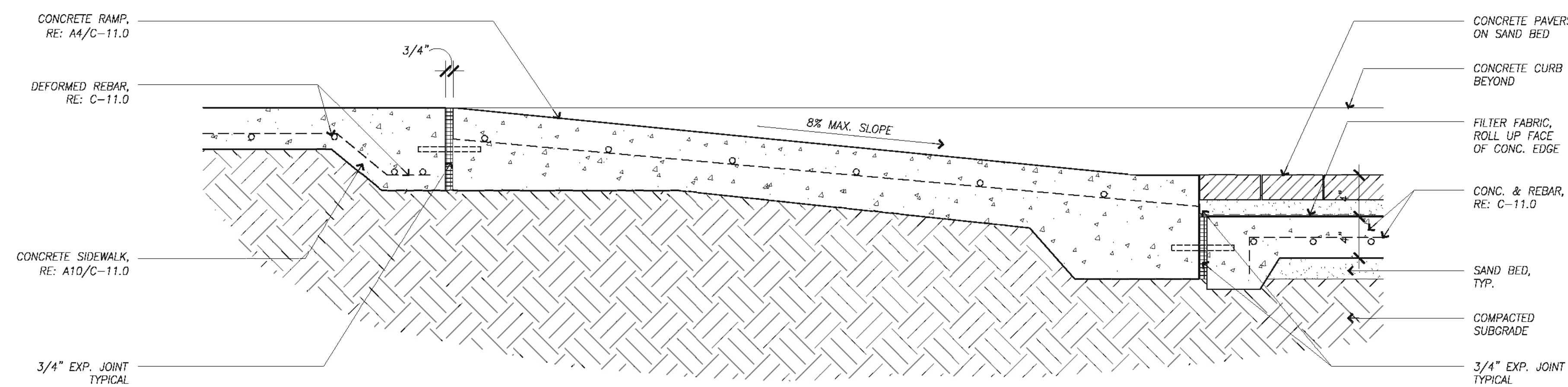


19 RAMP DETAIL
SCALE: 1 1/2"=1'-0"

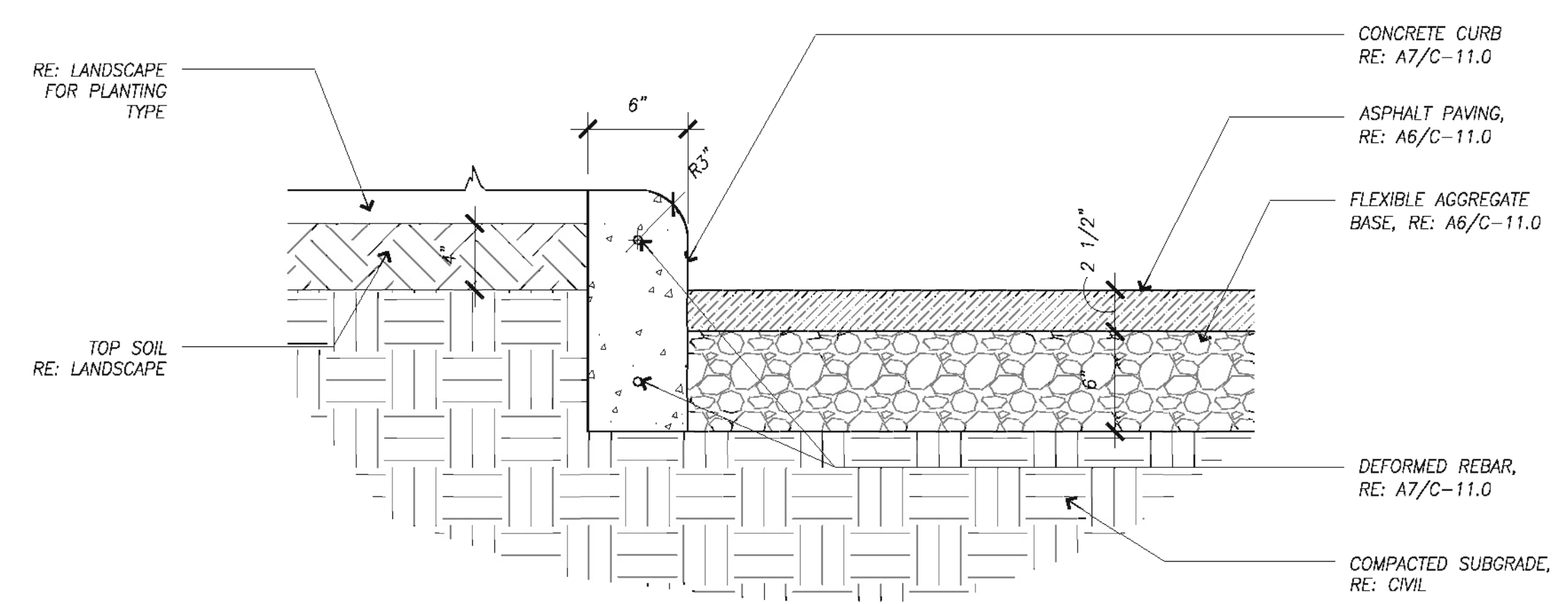


18 LANDSCAPE BED DETAIL
SCALE: 1 1/2"=1'-0"

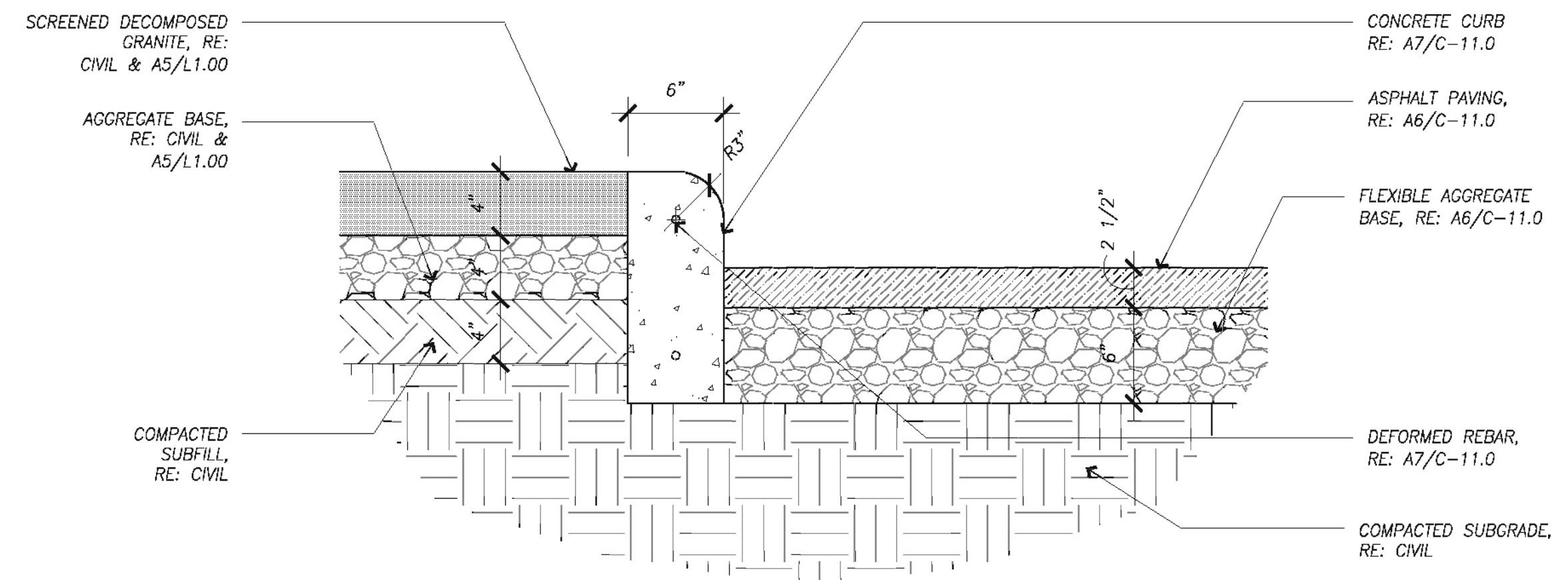
14 PAVER WALKWAY DETAIL
SCALE: 1 1/2"=1'-0"



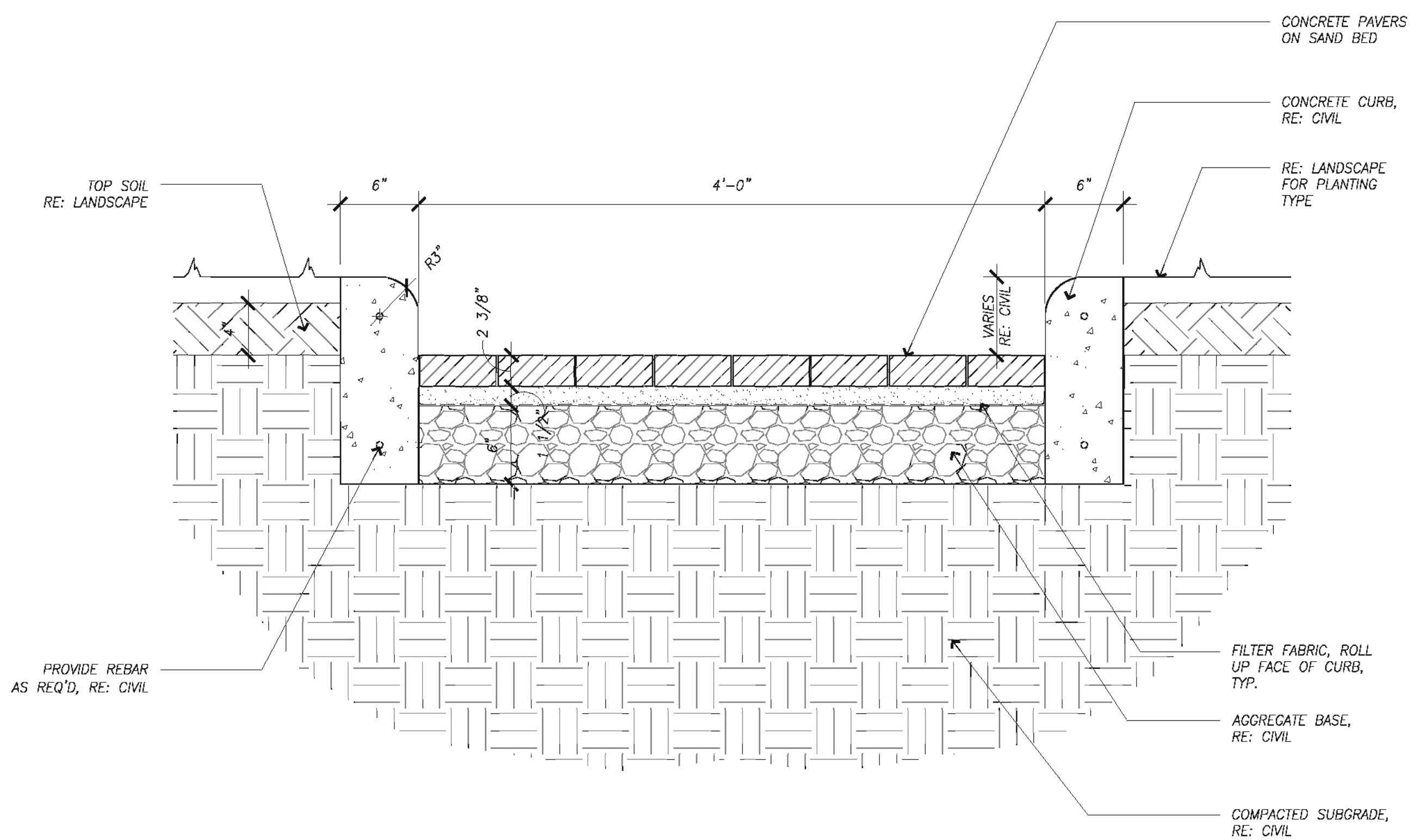
17 RAMP DETAIL
SCALE: 1 1/2"=1'-0"



8 LANDSCAPE BED DETAIL
SCALE: 1 1/2"=1'-0"



7 DECOMPOSED GRANITE DETAIL
SCALE: 1 1/2"=1'-0"



5 PAVER WALKWAY DETAIL
SCALE: 1 1/2"=1'-0"



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1	ISSUED FOR BID & CONSTRUCTION	05/08/11	JA

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713.580.8998 Fax

**Central Campus
Parking Lot Improvements**
1300 Holman Street
Houston, TX 77004

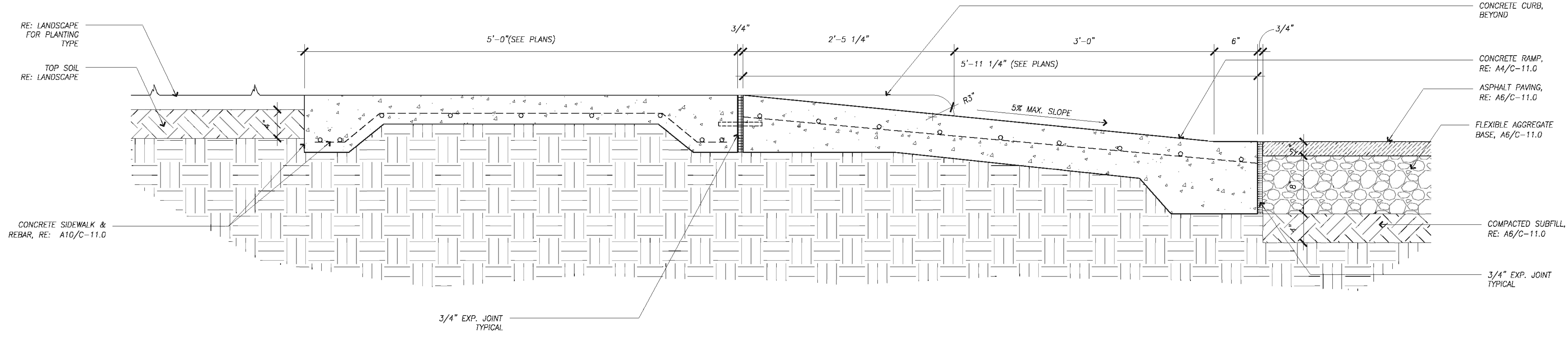
Contract No.: A/E Project No.:
Drawn By: XX Date: XX/XX/XX
Checked By: Date:
Approved By: Date:

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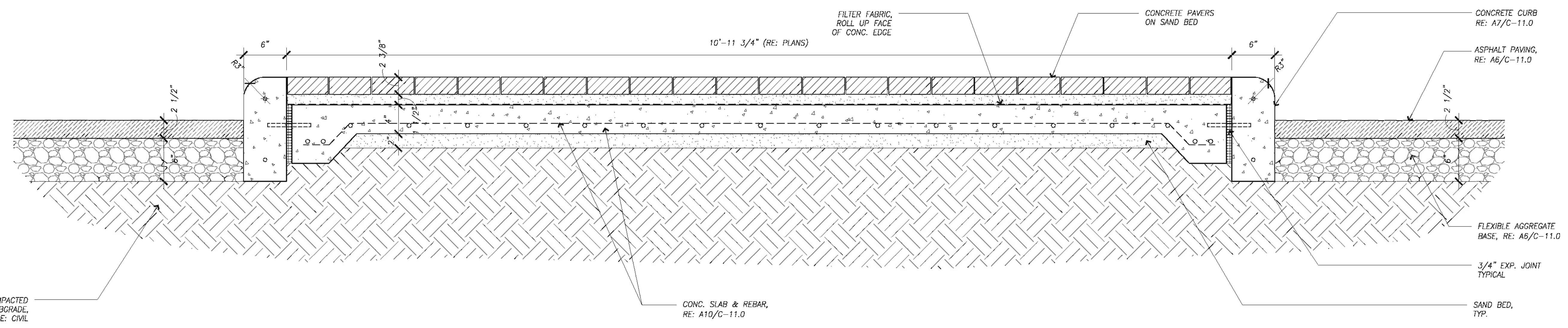
Site Details

Scale: As Noted

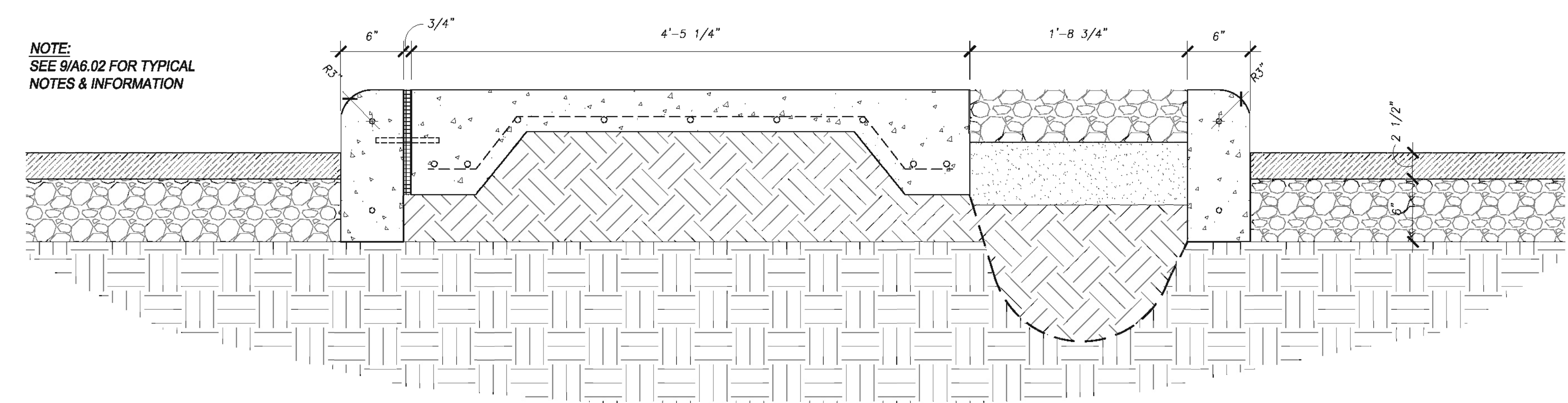
AS-6.01



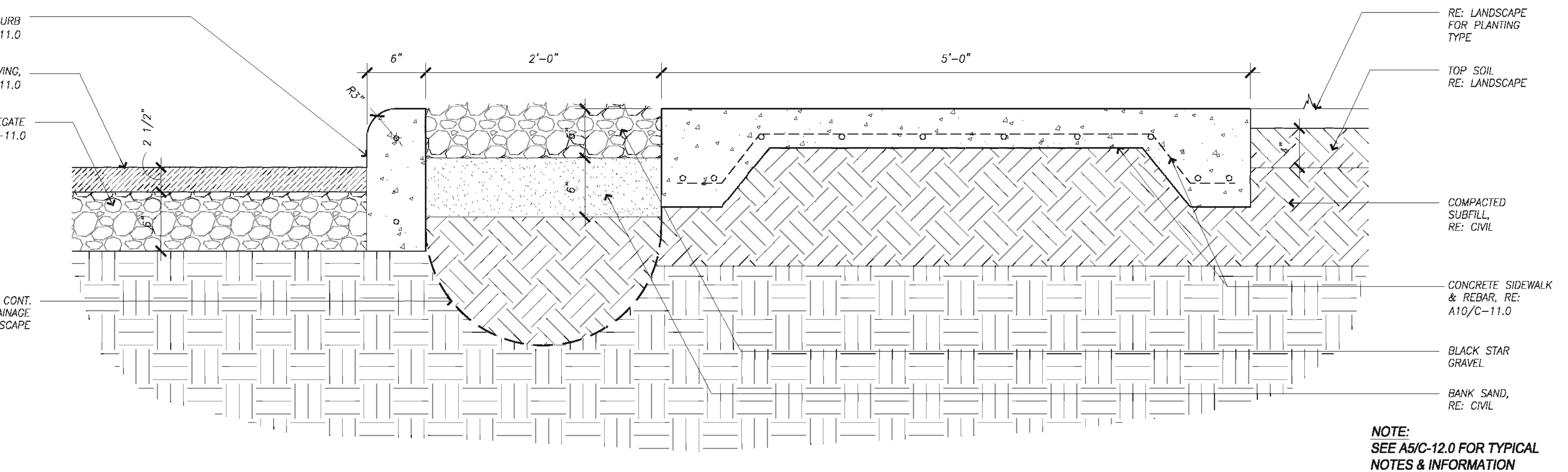
16 RAMP DETAIL
SCALE: 1/12"=1'-0"



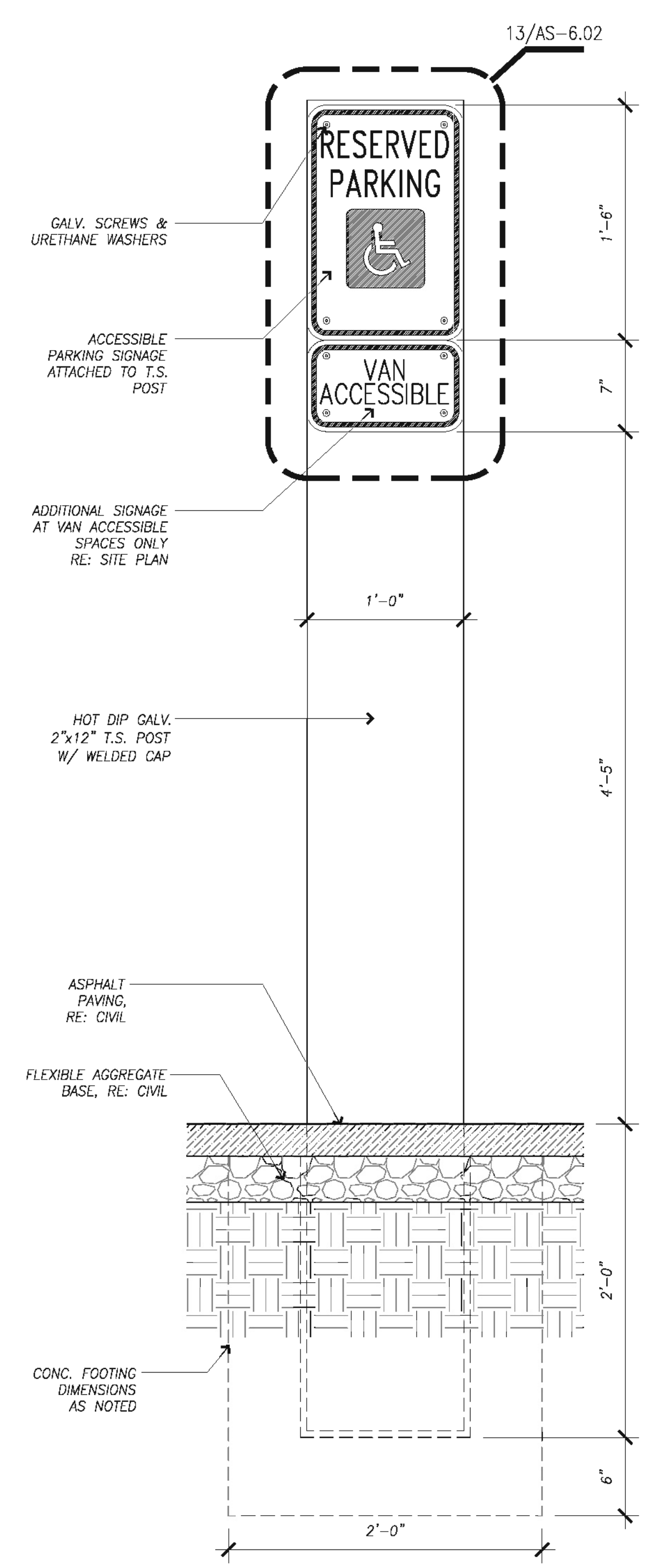
15 PAVER WALKWAY DETAIL
SCALE: 1/12"=1'-0"



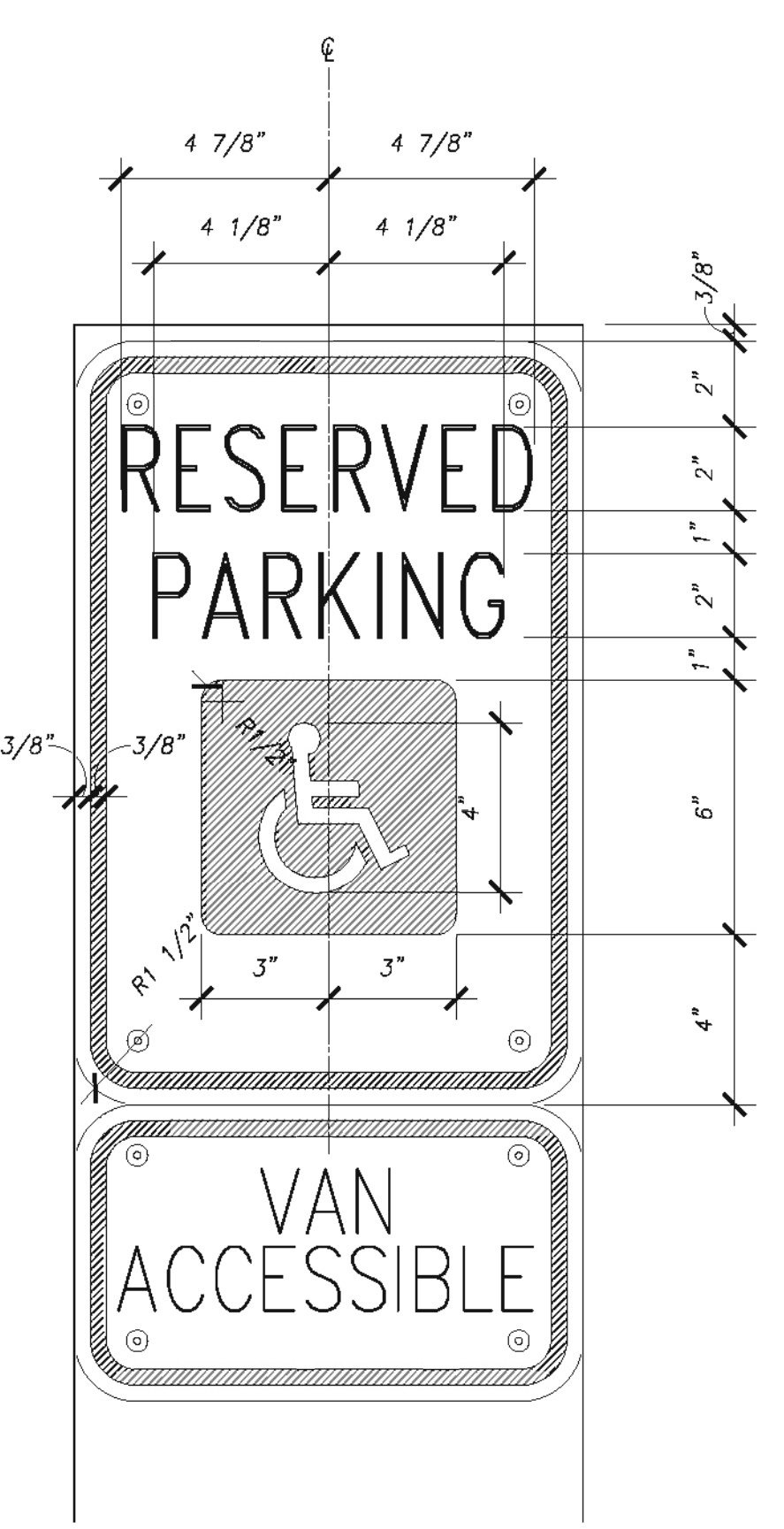
10 CONCRETE WALKWAY DETAIL
SCALE: 1/12"=1'-0"



9 CONCRETE WALKWAY DETAIL
SCALE: 1/12"=1'-0"



17 HC SIGNAGE DETAIL
SCALE: 1/12"=1'-0"



13 HC SIGNAGE DETAIL
SCALE: 1/12"=1'-0"



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**Central Campus
Parking Lot Improvements**
1300 Holman Street
Houston, TX 77004

Contract No.: A/E Project No.:
Drawn By: XX Date: XXXXXX
Checked By: Date:
Approved By: Date:

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Site Details

Scale: As Noted

AS-6.02

ABBREVIATIONS

Table of abbreviations with columns for symbol, description, and units. Includes terms like AMP, AREA, ALTERNATING CURRENT, AIR COMPRESSOR, AIR CONDITIONING, AIR COOLED CONDENSING UNIT, ACCESS DOOR, AIR DRYER, ADJUSTER, AIR FILTER, AIR PRESSURE DROP, ARCHITECT, ARCHITECTURAL, AMERICAN NATIONAL STANDARDS, AMERICAN SOCIETY OF HEATING AND REFRIGERATION ENGINEERS, etc.

ELECTRICAL SYMBOLS

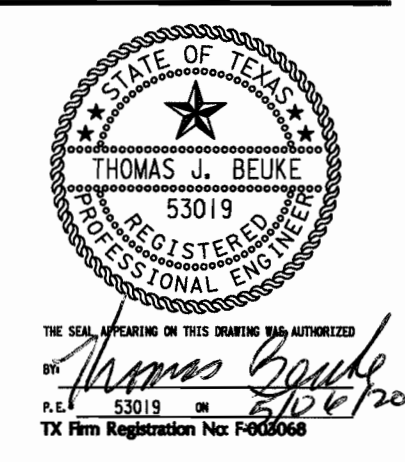
Table of electrical symbols and their descriptions. Includes sections for ONE LINE/RISER DIAGRAMS, RECEPTACLES/OUTLETS, ELECTRICAL EQUIPMENT/CIRCUITING, FIRE ALARM, COMMUNICATIONS, LIGHTING/SWITCHES, and PANEL DESIGNATIONS. Symbols include transformer, switch, circuit breaker, shunt trip, ground fault relay, etc.

Table of general notes and drawing list. Includes notes like 'ALL ELECTRICAL WORK SHALL COMPLY WITH APPLICABLE STATE & LOCAL BUILDING CODES & REQUIREMENTS', 'REFER TO THE SPECS FOR MATERIALS & METHODS FOR ELECTRICAL CONSTRUCTION', and a drawing list with symbols, descriptions, and quantities.



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Issue/Revision table with columns for REV, DESCRIPTION, DATE, and BY. Includes entry 1: ISSUED FOR BID & CONSTRUCTION, 05/09/11, JA.

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Central Campus Parking Lot Improvements 1300 Holman Street Houston, TX 77004 Contract No.: A/E Project No.: 264.3.00

Drawn By: MHS Date: 2011-05-06 Checked By: TJB Date: 2011-05-06 Approved By: MHS Date: 2011-05-06 Ownership of Instruments of Service: All reports, plans, specifications, computer files, field data, notes & other documents and instruments prepared for Houston Community College as instruments of service shall become the property of Houston Community College...

Electrical Symbols and Abbreviations

Scale: SE000

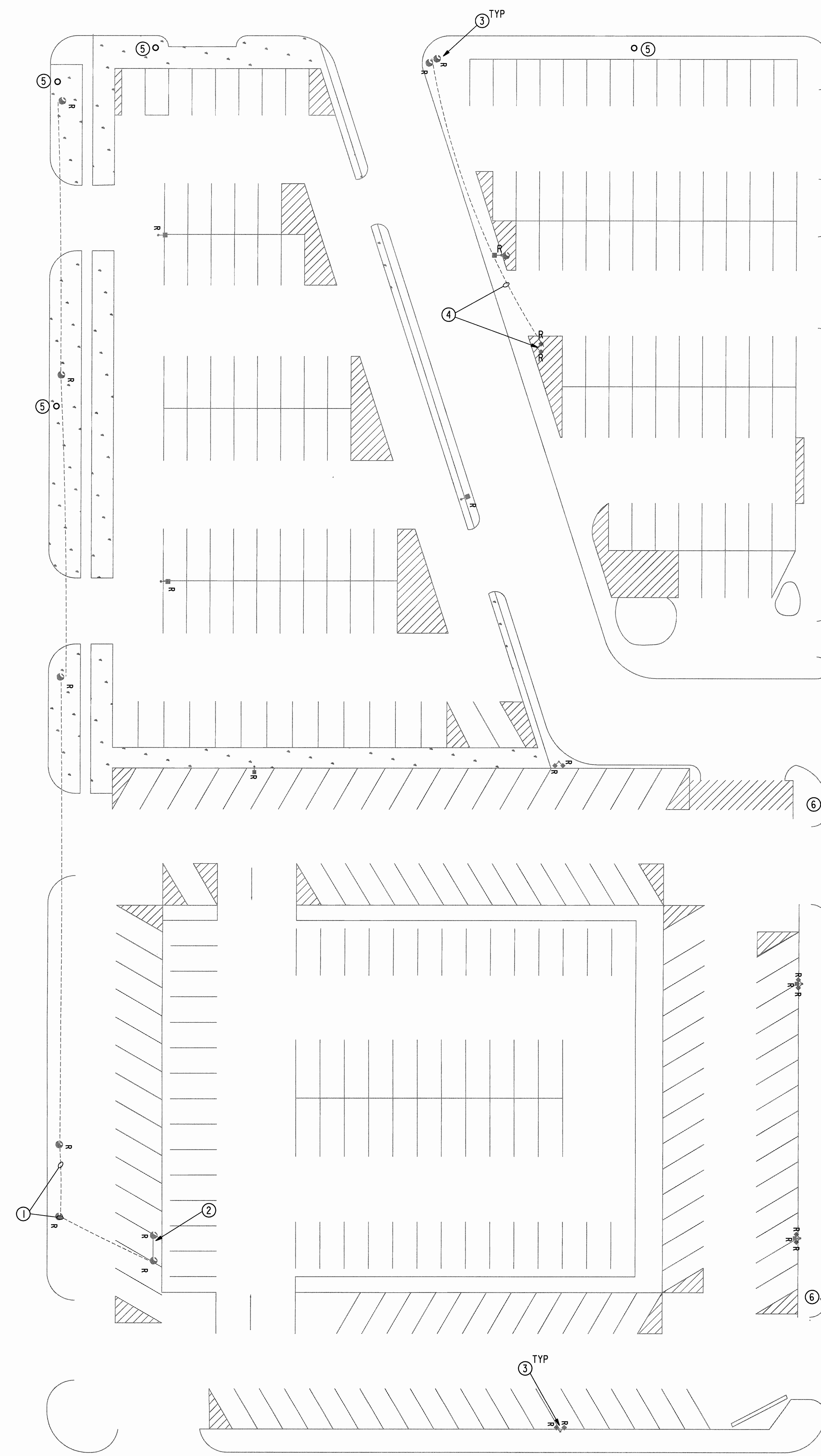
PN:2600\2643\Southwest Parking Lot\2643esa.dgn 5/9/2011

GENERAL NOTES:

A. REFER TO SE000 FOR SYMBOLS AND ABBREVIATIONS.

DRAWING NOTES:

- ① EXISTING ELECTRICAL SERVICE TO BE REMOVED, COORDINATE WITH CENTERPOINT ENERGY FOR THE REMOVAL OF THE POLE MOUNTED TRANSFORMERS, SERVICE POLES AND TRANSMISSION LINES.
- ② REMOVE EXISTING ELECTRICAL RACK WITH METER AND DISCONNECTS.
- ③ REMOVE THE EXISTING POLE MOUNTED LIGHT AND ASSOCIATED CONDUIT AND WIRING.
- ④ STREET BEING ABANDONED, COORDINATE WITH CENTERPOINT TO REMOVE STREET LIGHTS AND OVERHEAD SERVICE.
- ⑤ EXISTING CENTERPOINT TIRZ STANDARD FIXTURE STREET LIGHT TO REMAIN.
- ⑥ COORDINATE WITH CENTERPOINT TO REMOVE THE EXISTING COBRA HEAD FIXTURE AND REPLACE WITH TIRZ STANDARD.

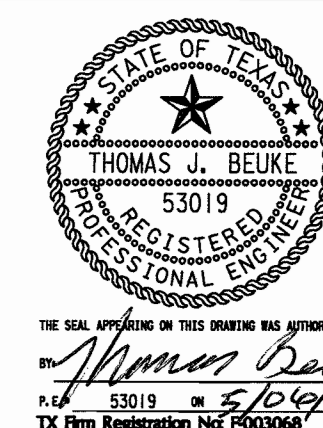


1 ELECTRICAL DEMOLITION SITE PLAN
SCALE: 1" = 20'-0"



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**Central Campus
Parking Lot Improvements**

1300 Holman Street
Houston, TX 77004

Contract No.: A/E Project No.: 2643.00
Drawn By: MHS Date: 2011-05-06
Checked By: TJB Date: 2011-05-06
Approved By: MHS Date: 2011-05-06

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**ELECTRICAL
DEMOLITION
SITE PLAN**

Scale:

SE100

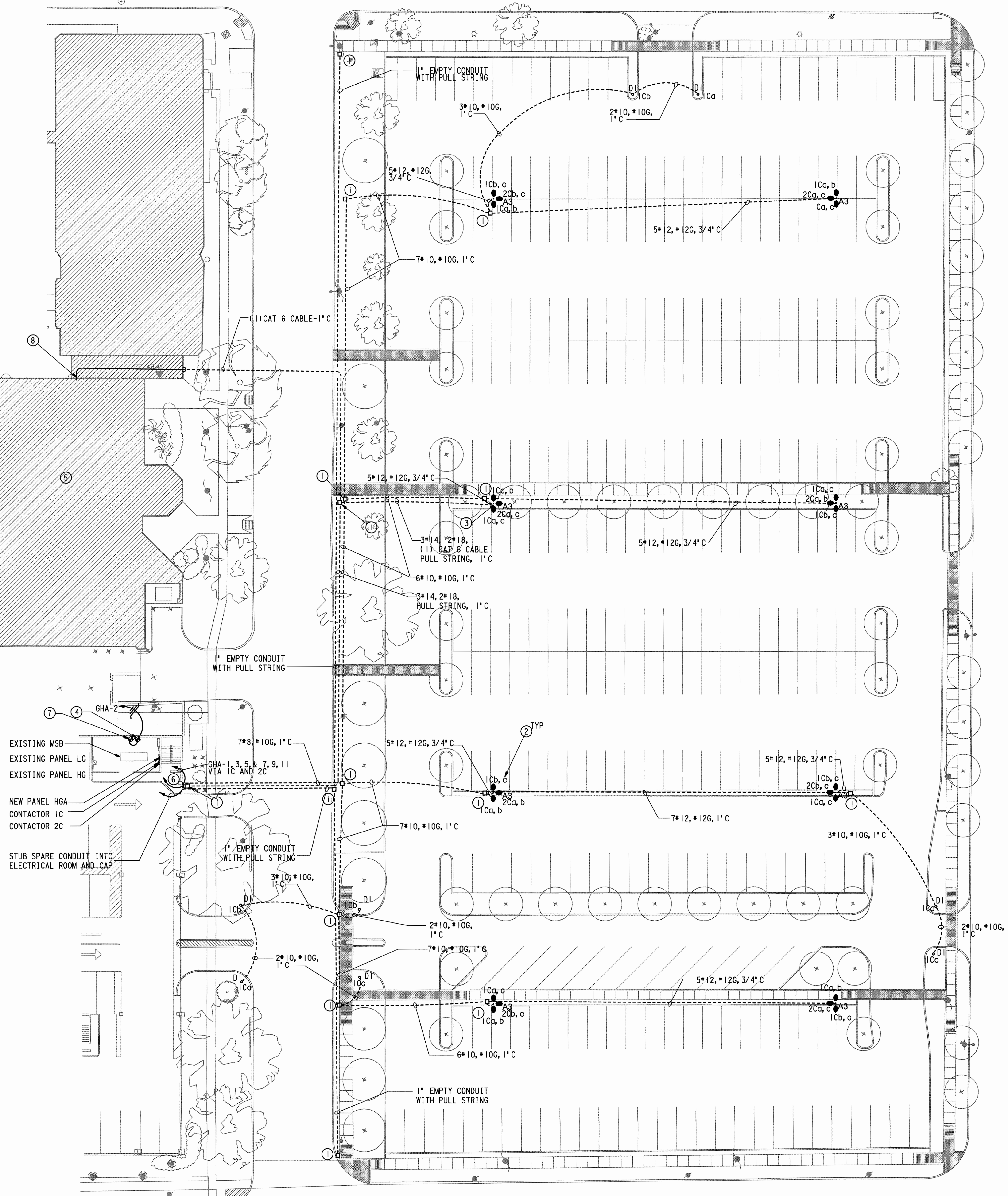
GENERAL NOTES:

- A. RE: SE,000 FOR ADDITIONAL GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
- B. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONAL LOCATIONS OF CONDUITS.
- C. CIRCUITING SHOWN DOES NOT INDICATE ACTUAL LOCATION OF UNDERGROUND CONDUITS. CONTRACTOR SHALL TRENCH AND ROUTE CONDUITS AS REQUIRED.
- D. ALL LIGHT POLE AND PULL BOX LOCATIONS SHALL BE STAKED AND REVIEWED BY THE ARCHITECT, LIGHTING DESIGNER AND HCC PROJECT MANAGER PRIOR TO INSTALLING PULL BOXES OR LIGHT POLES.
- E. WHERE CONDUIT AND WIRE SIZE ARE NOT INDICATED, CONTRACTOR SHALL EXTEND LAST SHOWN SIZE TO END OF RUN.

DRAWING NOTES:

- ① PROVIDE IN-GROUND PRECAST CONCRETE PULL BOX MANUFACTURED BY BROOKS. 24" X 24" BY 12" DEEP. MAKE ALL CONNECTIONS WATERTIGHT. PROVIDE STEEL COVER WITH ELECTRICAL ON COVER, PROVIDE TRAFFIC RATED COVER WHEN INSTALLED IN TRAFFIC AND PARKING AREAS.
- ② INDICATES CONTACTOR NUMBER, SMALL LETTERS INDICATE PHASE, RE: 4SE301 FOR ADDITIONAL INFORMATION.
- ③ STUB 1" CONDUIT WITH 2#12, #12G, 1 CAT 6 CABLE (CAT 6) AND 1 TWISTED SHIELDED PAIR, 22AWG (TSP) UP INTO POLE FOR SECURITY AND COMMUNICATIONS TO THE POLE MOUNTED BLUE LIGHT. POLE MOUNTED CODE BLUE COMMUNICATION UNIT WITH REMOTE LED BEACON MOUNTED HIGH ON POLE, EQUAL TO CODE BLUE CB-4-F. ROUTE 3#14 AWG FROM THE COMMUNICATION UNIT TO THE REMOTE LED BEACON VIA LOW VOLTAGE RACEWAY MANUFACTURED AS PART OF POLE. RE: DETAIL 2/SE3.00. INSTALL 3/4" X 10' GROUND ROD AT UNIT AND EXTEND #8G TO GROUND LUG. EXTEND THE CAT 6 CABLE FOR COMMUNICATIONS FROM THE UNIT TO THE IDF ROOM AND A 22AWG SHIELDED TWISTED PAIR CABLE FROM THE UNIT TO THE LIGHTING PANEL VIA THE IDF ROOM FOR "ALL ON" SIGNAL TO THE LIGHTING PANEL. EXTEND 3#12 AWG FOR LOW VOLTAGE POWER TO THE UNIT. ALL CABLING, SPLICES AND TERMINATIONS SHALL BE RATED FOR OUTDOOR USE.
- ④ ANDOVER CONTINUUM MODULAR PANEL FOR CONTROL OF THE SITE LIGHTING, RE: 4SE301. COORDINATE WITH KRATOS TIEING IN TO THE EXISTING CAMPUS ANDOVER BUILDING AUTOMATION SYSTEM.
- ⑤ PULL BOX FOR CODE BLUE COMMUNICATIONS. EXTEND 1" CONDUIT WITH CABLING UP TO THE DEMARC PANEL, ALLOW 250'. CONFIRM LOCATION WITH HOUSTON COMMUNITY COLLEGE IT REPRESENTATIVE (HCC). COIL 25' OF CABLING FOR TERMINATION BY HCC.

- ⑥ 1" CONDUIT WITH LOW VOLTAGE POWER FOR THE BLUE LIGHT SYSTEM, EXTEND CONDUIT TO THE CODE BLUE POWER SUPPLY, RE: NOTE 7.
- ⑦ PROVIDE CODE BLUE DISTRIBUTED 24 VAC POWER SUPPLY (CLASS 2) FOR TERMINATION OF ALL POWER CABLES FROM THE COMMUNICATION UNITS. INSTALL A GROUND BUS IN AN ENCLOSURE FOR TERMINATING ALL POWER CONDUCTOR GROUNDS. CONNECT EQUIPMENT GROUNDING CONDUCTOR TO GROUND ROD. COORDINATE EXACT LOCATION IN FIELD, PRIOR TO INSTALLING CABLING.
- ⑧ PROVIDE A GROUND ROD FOR THE BLUE LIGHT COMMUNICATIONS CABLING LIGHTNING PROTECTORS GROUND THE COMMUNICATIONS MOV' S TO THE GROUND ROD. TERMINATE ALL SHIELDED TWISTED PAIR CABLES FROM COMMUNICATION CABLING.

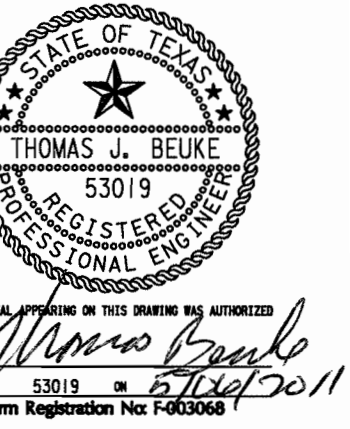


1 ELECTRICAL ALTERATION SITE PLAN
SCALE: 1" = 20'-0"



Houston
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REV	DESCRIPTION	DATE	BY
1	ISSUED FOR BID & CONSTRUCTION	05/09/11	JA

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713.580.8888 Fax

**Central Campus
Parking Lot Improvements**
1300 Holman Street
Houston, TX 77004

Contract No.:	MHS	A/E Project No.:	2643.00
Drawn By:	MHS	Date:	2011-05-06
Checked By:	TJB	Date:	2011-05-06
Approved By:	MHS	Date:	2011-05-06

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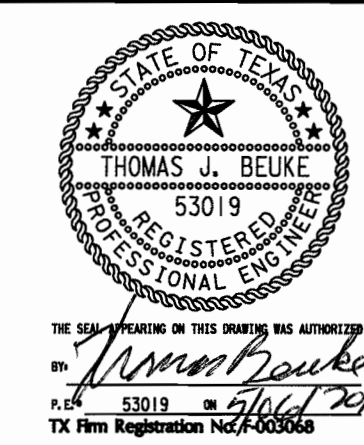
**ELECTRICAL
ALTERATION
SITE PLAN**

Scale:
SE200



Houston
Community
College

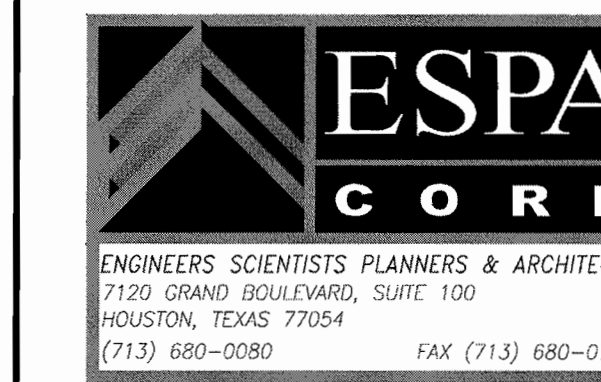
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Issue/Revision:

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR BID & CONSTRUCTION	05/08/11	JA

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**Central Campus
Parking Lot Improvements**
1300 Holman Street
Houston, TX 77004

Contract No.: A/E Project No.: 2643.00
Drawn By: MHS Date: 2011-05-06
Checked By: TJB Date: 2011-05-06
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**Electrical One Line
and Schedules**

Scale:

SE300

Panel		HGA (NEW)		Project - Central Campus Parking Lot Lighting						
Location - ELECTRICAL ROOM		E&C No. 2643		Phase A Phase B Phase C Total						
Panel Information		Panel Loads		Phase A Phase B Phase C Total						
Voltage: 277/480V, 3P, 4W		Panel Lighting VA		3910 4140 3910 11960						
Panel Type: Panelboard		Panel Receptacle VA		0 0 0 0						
Bus Amps: 100A, 100% Neutral		Panel Equipment VA		100 0 0 100						
Bus Type: Copper/AL/ALUMINUM		FTL VA		0 0 0 0						
Panel Main: 100A MLO		Total Connected VA		4010 4140 3910 12060						
Breaker Mtg: Bolt-In		Total Connected Amps		14 15 14 15						
Enclosure: NEMA 3R Surface		NEC VA		4698 5175 4888 15060						
Accessories: Ground Bus		NEC Amps		18 19 18 18						
Ckt.	Bkr.	Circuit Use	Load	Type	Ph.	Ckt.	Bkr.	Circuit Use	Load	Type
1	-	-	2830	2	A	2	15/1	Lighting Control Power	100	1
3	203	Site Lighting Zone 1	2830	2	B	4	20/1	Space		
5	-	-	2300	2	C	6	20/1	Space		
7	-	-	1380	2	A	8	-	Space		
9	203	Site Lighting Zone 2 (Security)	1610	2	B	10	-	Space		
11	-	-	1610	2	C	12	-	Space		
13	-	Space	-	-	A	14	-	Space		
15	-	Space	-	-	B	16	-	Space		
17	-	Space	-	-	C	18	-	Space		
19	-	Space	-	-	A	20	-	Space		
21	-	Space	-	-	B	22	-	Space		
23	-	Space	-	-	C	24	-	Space		

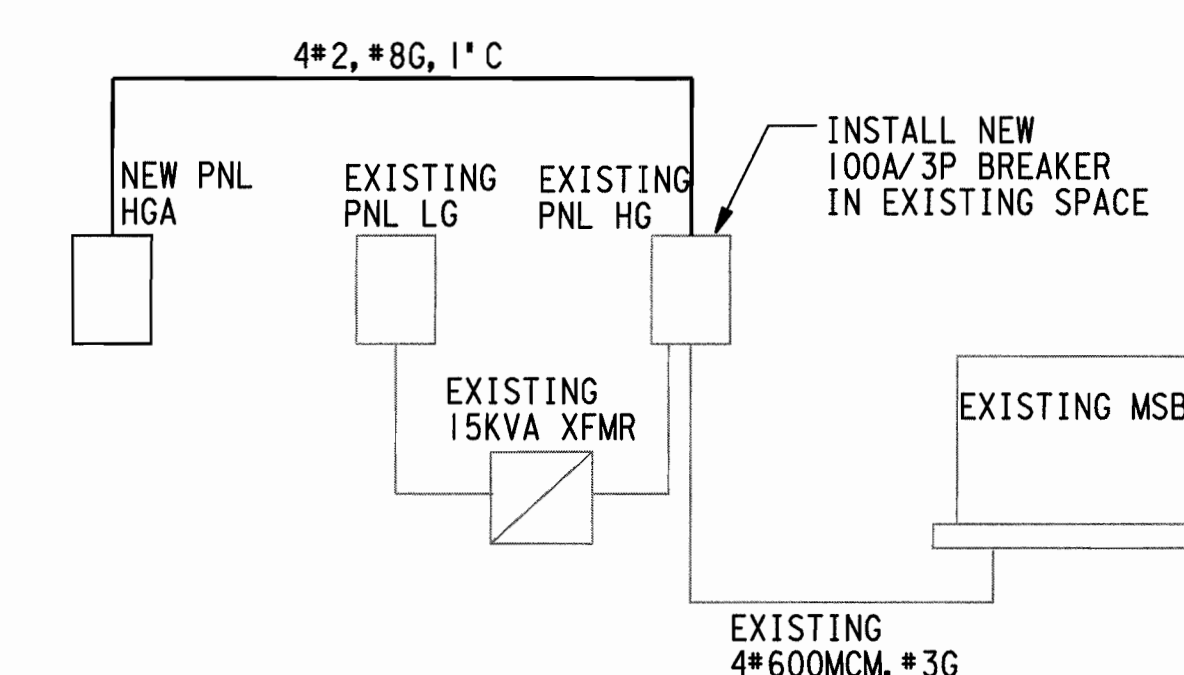
Load Types: 0 = Recept (per NEC), 1 = Equip. (100%), 2 = Lighting (100%), 3 = AC (100%), 4 = Heating (100%), 5 = Lght. Motor (125%), 6 = Kitchen Equip. (per NEC)

Notes:
(1) Provide new breaker.

Panel		HG (Existing)		Project: HCC Central Campus Parking Lot						
Location: 1st Floor Electrical Room		E&C No. 2643		Panel Loads						
Panel Information		Panel Loads		Phase A Phase B Phase C Total						
Voltage: 277/480V, 3P, 4W		FTL VA		0						
Panel Type: Panelboard		Panel Lighting VA		65164						
Bus Amps: 400A, 100% Neutral		Panel Receptacle VA		0						
Bus Type: Copper/AL/ALUMINUM		Panel Equipment VA		77300						
Panel Main: 400A MLO		Total Connected VA		142464						
Breaker Mtg: Bolt-In		Total Connected Amps		171						
Enclosure: NEMA 1 Surface		NEC VA		158755						
Accessories: Ground Bus		NEC Amps		191						
Ckt.	Bkr.	Circuit Use	Load	Type	Ph.	Ckt.	Bkr.	Circuit Use	Load	Type
1	201	Existing Circuit	3989	2	A	2	20/1	Existing Circuit	3989	2
3	201	Existing Circuit	3457	2	B	4	20/1	Existing Circuit	3989	2
5	201	Existing Circuit	3989	2	C	6	20/1	Existing Circuit	3989	2
7	201	Existing Circuit	3989	2	A	8	20/1	Existing Circuit	3989	2
9	201	Existing Circuit	3457	2	B	10	20/1	Existing Circuit	3989	2
11	201	Existing Circuit	3989	2	C	12	20/1	Existing Circuit	3989	2
13	201	Existing Circuit	3250	1	A	14	20/1	Existing Circuit	3989	2
15	201	Existing Circuit	2670	2	B	16	20/1	Existing Circuit	3250	1
17	201	Existing Circuit	3250	1	C	18	-	Space	4500	1
19	-	-	3250	1	A	20	60/3	Existing Circuit	4500	1
21	203	Existing Circuit	3250	1	B	22	-	Space	4500	1
23	-	-	3250	1	C	24	20/1	Existing Circuit	3250	1
25	-	-	3250	1	A	26	20/1	Existing Circuit	3250	1
27	203	Existing Circuit	3250	1	B	28	20/1	Space		
29	-	-	3250	1	C	30	20/1	Space		
31	-	-	4888	1	A	32	20/1	Existing Circuit	3250	1
33	100/3	New Panel HGA (1)	6175	1	B	34	20/1	Existing Circuit	3250	1
35	-	-	4888	1	C	36	20/1	Existing Circuit	3250	1
37	201	Existing Circuit	3723	2	A	38	20/1	Existing Circuit	3250	1
39	201	Existing Circuit	3989	2	B	40	20/1	Space		
41	201	Existing Circuit	3989	2	C	42	20/1	Space		

Load Types: 0 = Recept (per NEC), 1 = Equip. (100%), 2 = Lighting (125%), 3 = AC (100%), 4 = Heating (100%), 5 = Lght. Motor (125%), 6 = Kitchen Equip. (per NEC)

Notes:
(1) Provide new breaker.

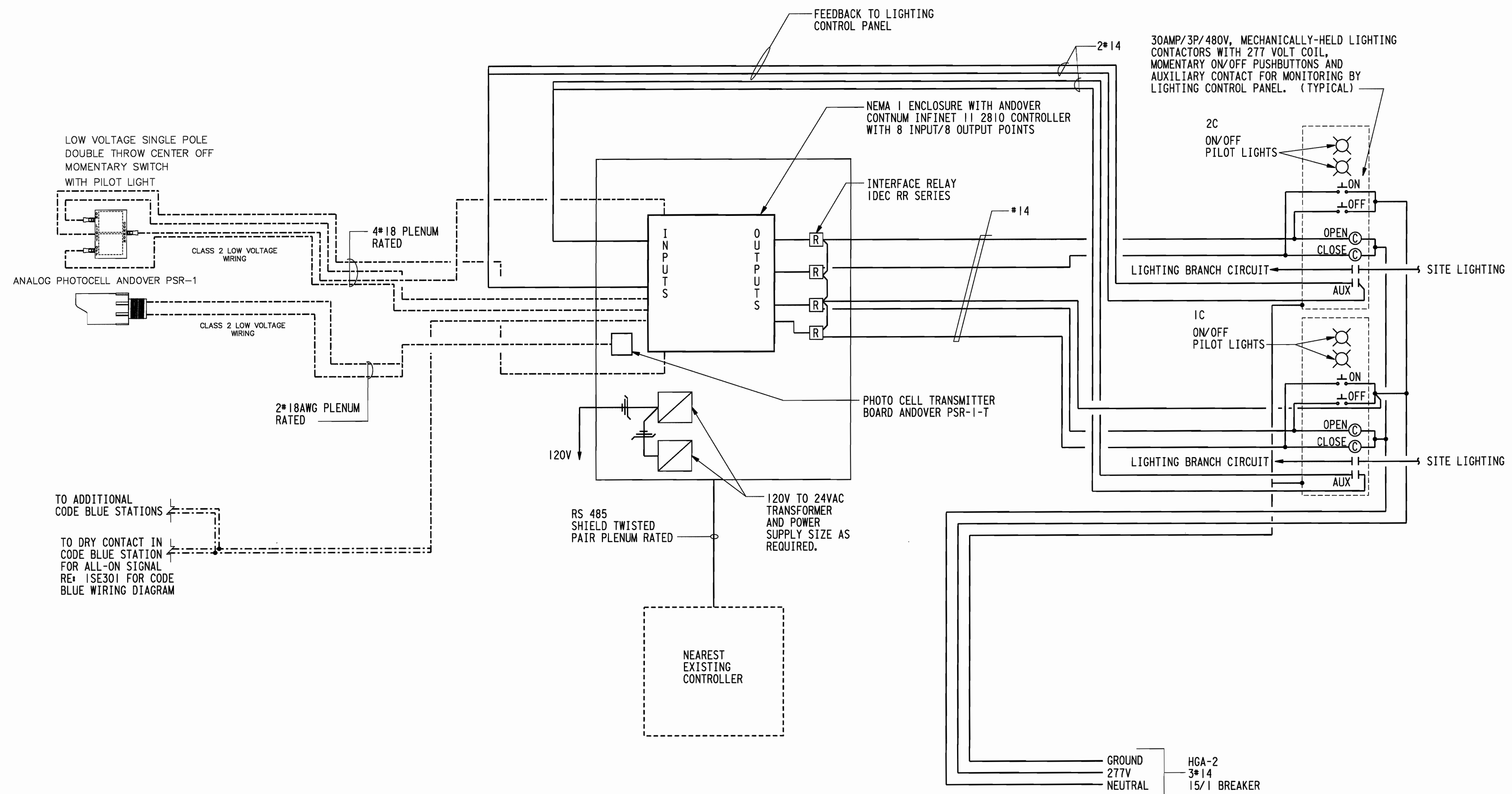


1 PARTIAL ONE LINE DIAGRAM
NO SCALE

	kVA	Amps
Existing One Year Peak Demand from CenterPoint Energy	62.0	62.6
+25%	13.0	15.6
New Lighting Load	15.1	18.1
+25%	3.8	4.5
Total	100.9	
Existing Service	2000.0	
Spare Capacity	1899.1	

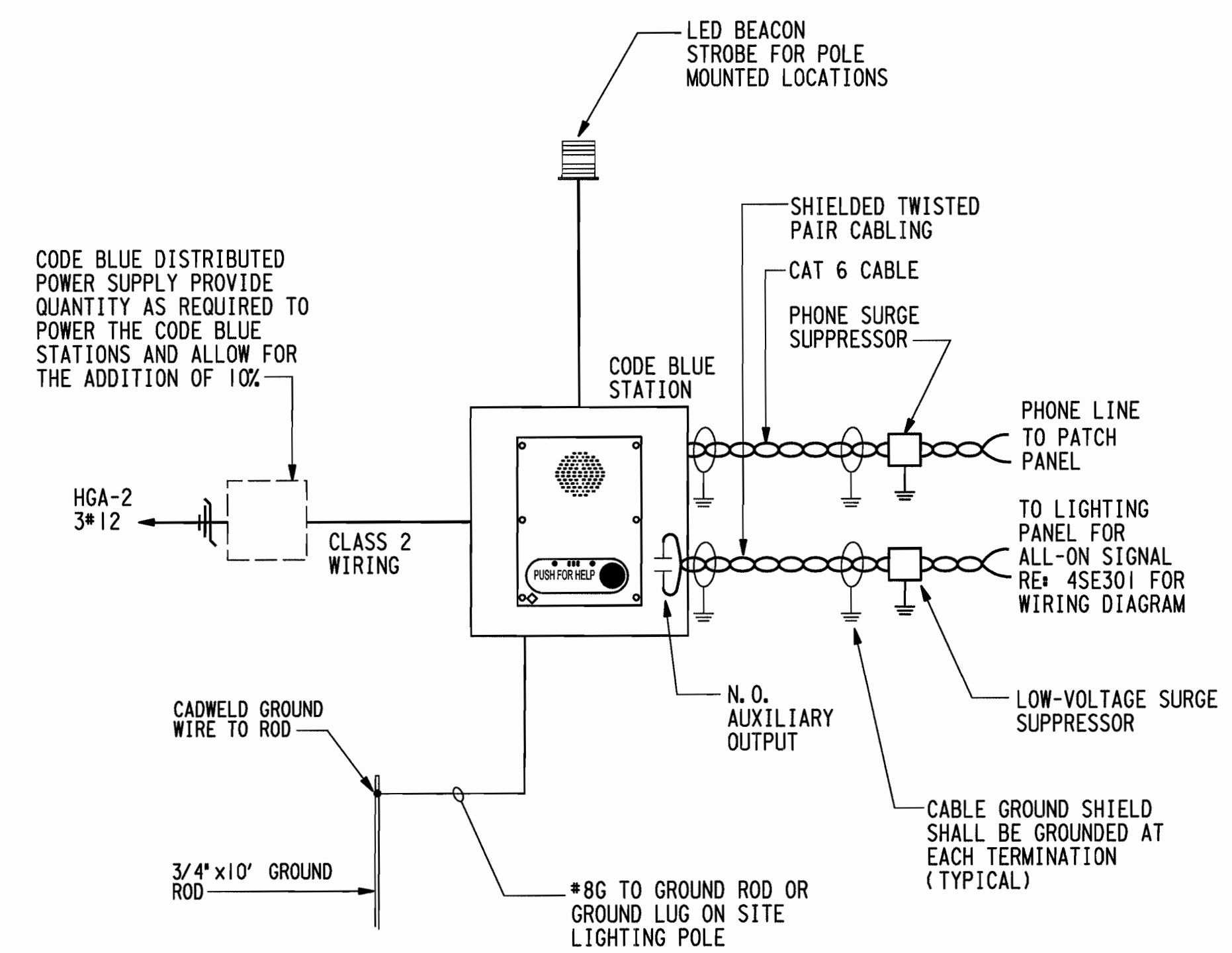
LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION
A3	<p>FIXTURE: MOONGOOSE PARKING AREA LIGHT WITH INTEGRAL ARCHITECTURAL ARM SUITABLE FOR SITE LINK MOUNTING. (3) VERTICAL 400W PULSE START METAL HALIDE LAMP, 480V, SINGLE PHASE, ENERGY SAVING LOW LOSS BALLAST, TEMPERED FLAT GLASS LENS, SYMMETRICAL IES FULL CUT-OFF DISTRIBUTION, GRAPHITE POWDER COAT (TIGER DRYLAC METALLIC #PS 48/80180-C), ARCHITECTURAL ARM MOUNTING.</p> <p>MANUFACTURER: (3) HOLOPHANE G400PM48L5FAA-SL-HCCA MOONGOOSE WITH ARCHITECTURAL ARM-(4)NUT3/8-10TPD5+13EC-1167-1(1) SITELINK STL23000D90-SPGL-HCCA+STL3POLEKITD90+AB-27-4+TMP40000A</p> <p>POLE: MEDIUM DUTY POLE, 30' HIGH, EXTRUDED ALUMINUM SHAFT, ALUMINUM ALLOY POLE TOP AND BASE WITH NUT COVERS, HAND HOLE WITH STAINLESS STEEL TAMPER RESISTANT SCREEN, GRAPHITE POWDER COAT (TIGER DRYLAC METALLIC #PS 48/80180-C), WITH ANCHOR BOLT SET, LAMP(3) SYLVANIA 64189 LAMP -MS400PSBU-ONLYBT28</p>
D1	<p>FIXTURE: VERTICAL 100W METAL HALIDE LAMP, 277V, 42" HEIGHT (NOMINAL), CLEAR BOROSILICATE GLASS LENS WITH BLACK IMPACT RESISTANT DIE-CAST ALUMINUM LOUVERS WITH WHITE UNDERSIDES, SYMMETRICAL CUT-OFF DISTRIBUTION, ROUND HEAVY-DUTY VANDAL RESISTANT PILLAR INCLUDING WELDED REINFORCED TOP AND BOTTOM PLATES, HAND HOLE WITH TAMPER RESISTANT COVER, DOMED TOP, HIGH POWER FACTOR BALLAST, GRAPHITE POWDER COAT FINISH (TIGER DRYLAC METALLIC #PS 48/80180-C), INTERNALLY ACCESSIBLE INTEGRAL, ACCESSIBLE INTERNAL LEVELING PADS, INCLUDES SINGLE FUSING, LAMP AND ANCHOR BOLTS. FIXTURE SHALL BE PROPERLY GROUNDED, 277V.</p> <p>MANUFACTURER: HOLOPHANE H10142100CM277SYMSFGH BOLLARD</p> <p>LAMP:(1) SYLVANIA MP100CU/UMED 100W METAL HALIDE 2800K</p>

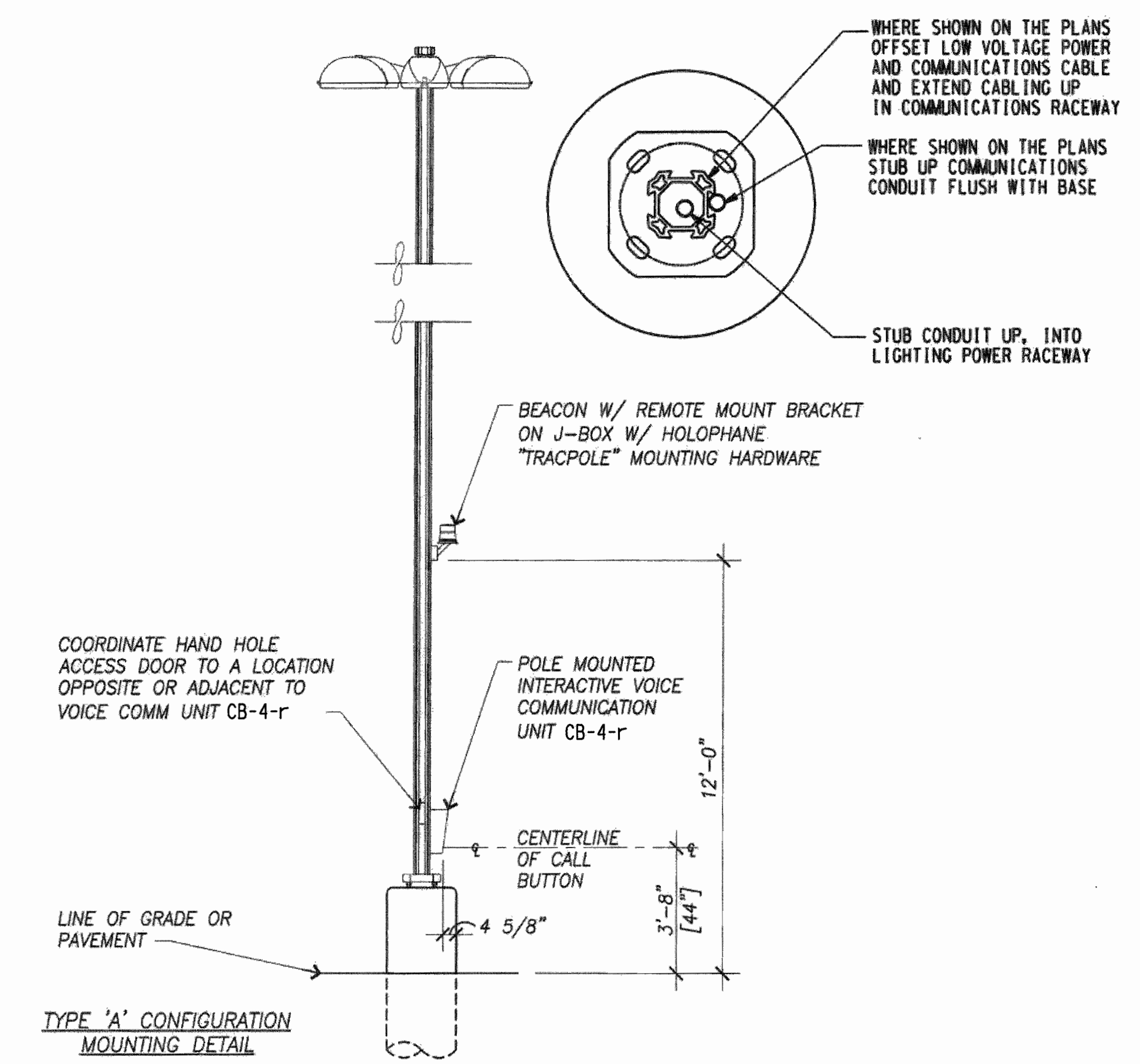


- NOTES:**
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING BUILDING CONTROLS CONTRACTOR KRATOS SOUTHEAST LP (CONTACT ROBERT OLDROYD (832) 724-8168) CONTROLS CONTRACT SHALL PROVIDE ALL COMPONENTS, PROGRAM LIGHTING SCHEDULES AND UPDATE EXISTING GRAPHIC PACKAGE TO ADD NEW POINTS INDICATING RELAYS CONTROLLER LIGHTING LEVELS.
 - PLENUM RATED WIRING MAY BE USES FOR MLOW VOLTAGE WIRING ABOVE ACCESSIBLE CEILINGS. PROVIDE CONDUIT WHERE EXPOSED.

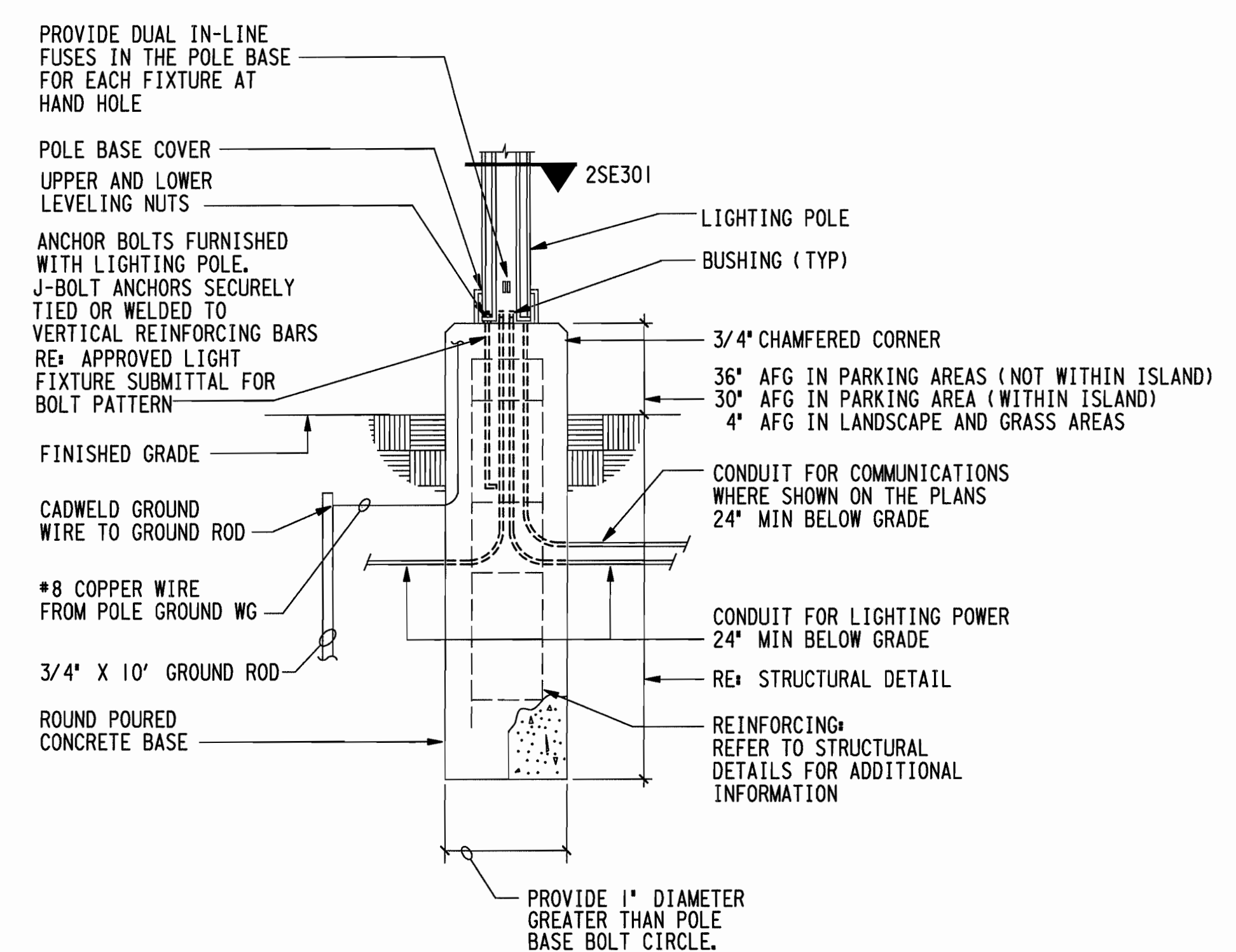
4 LIGHTING CONTROL PANEL WIRING DIAGRAM
NOT TO SCALE



3 CODE BLUE STATION WIRING DIAGRAM
NOT TO SCALE



2 LIGHTING POLE SECTION
NOT TO SCALE

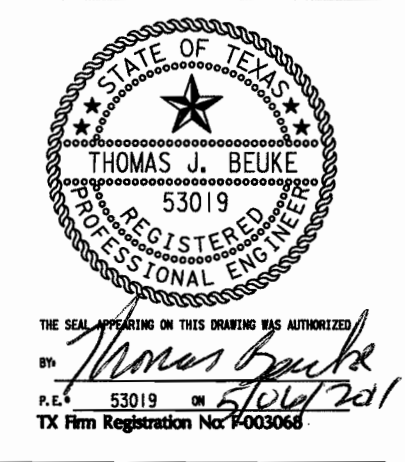


1 TYPICAL SITE LIGHTING POLE BASE DETAIL
NOT TO SCALE



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Issue/Revision:

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR BID & CONSTRUCTION	05/09/11	JA

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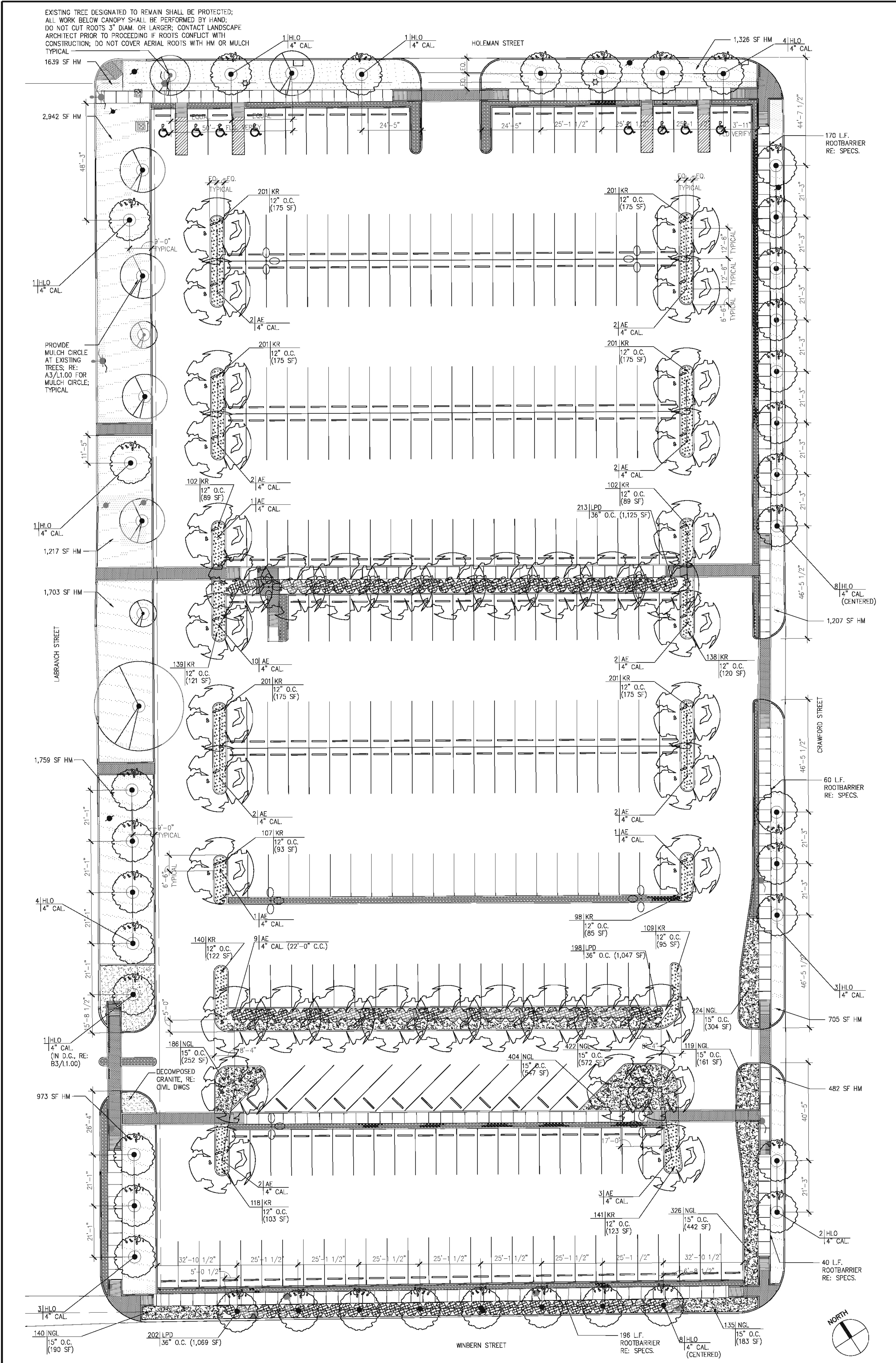
Contract No.:	A/E Project No.: 2643.00
Drawn By: MHS	Date: 2011-05-06
Checked By: T.J.B	Date: 2011-05-06
Approved By: MHS	Date: 2011-05-06

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ELECTRICAL DETAILS

Scale:

SE301



A1 LANDSCAPE PLAN - PARKING LOT NO SCALE

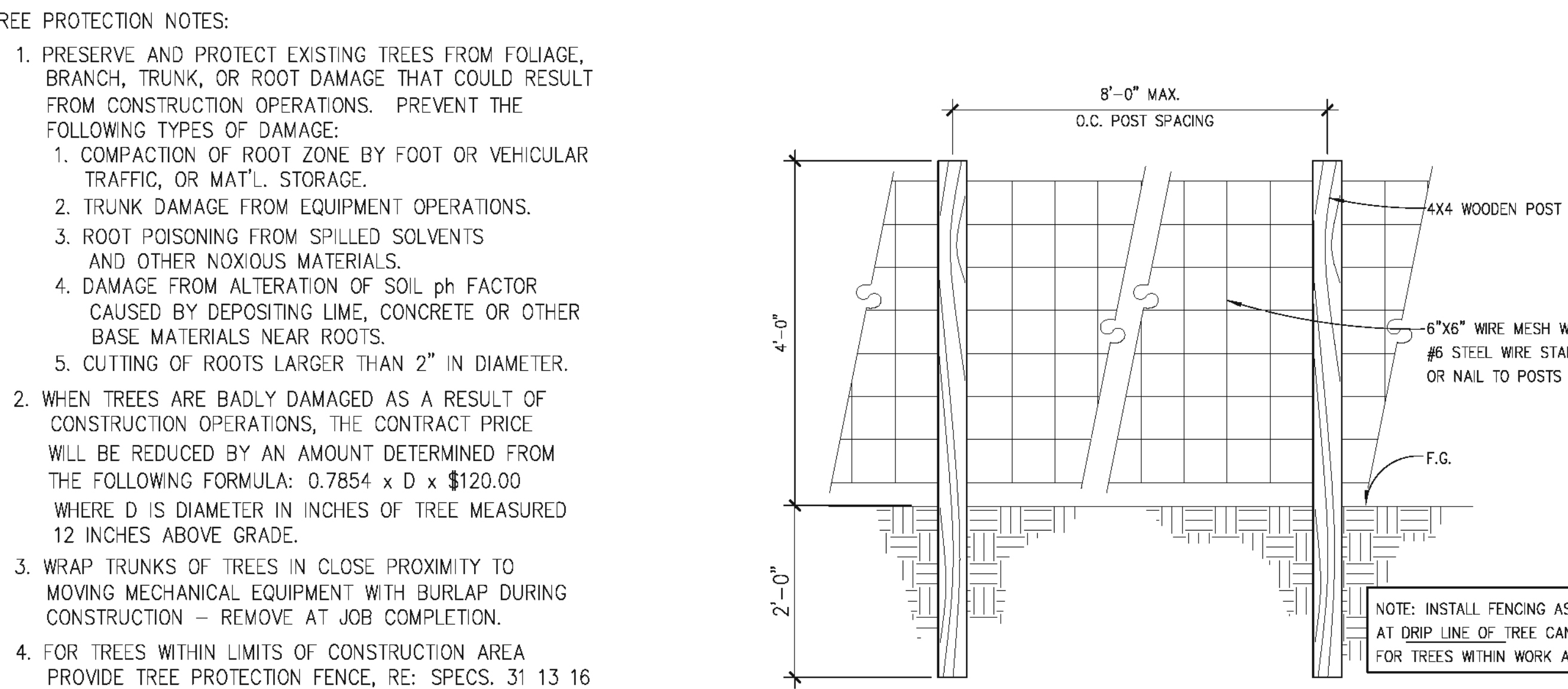
TREES KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	REMARKS
HLO	37	Quercus virginiana 'QVIA ps11219'	HIGHRISE LIVE OAK	4" CALIPER, 100 GAL	CONTAINER	15 FT. HT. MIN., 8 FT. SPREAD MIN., 7 FT. CLEAR TRUNK
AE	41	Ulmus parviflora Elmer II Plant Patent No. 7552	ALLEE CHINESE ELM	4" CALIPER, 100 GAL	CONTAINER	10 FT. HT., 6 FT. SPREAD, 6 FT. CLEAR TRUNK
SHRUBS KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	REMARKS
LPD	442	Loropetalum chinensis var. rubrum 'Hines Purpleleaf'	LOROPETALUM 'PLUM DELIGHT'	3 GAL	CONTAINER	15-18" HT., 12"-15" MIN. SPREAD, FULL TO GROUND
GROUNDCOVER KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	REMARKS
NGL	1,956	Lantana x 'New Gold'	NEW GOLD LANTANA	1 GAL.	CONTAINER	12"-15" HT., 8"-10" SPREAD, FULL TO GROUND, WELL ROOTED.
KR	2,500	Ruellia brittanianana	DWARF MEXICAN PETUNIA/KATIE'S RUELLIA	1 GAL.	CONTAINER	
HM	12,656 sf	-	NATIVE SUN TURFGRASS	-	(100% PURE)	HYDRO-MULCH WITH "HM" SEED MIX, SEE SPECIFICATIONS

CONTRACTOR TO ALSO PROVIDE 740 SF NATIVE MULCH FOR TREE RINGS AND FOR SHRUB PLANTING BEDS, PROVIDE 7,877 SF NATIVE MULCH OVER PRO 3" WEED BARRIER. PLANTING BED SQUARE FOOTAGE IS INDICATED ON PLAN.

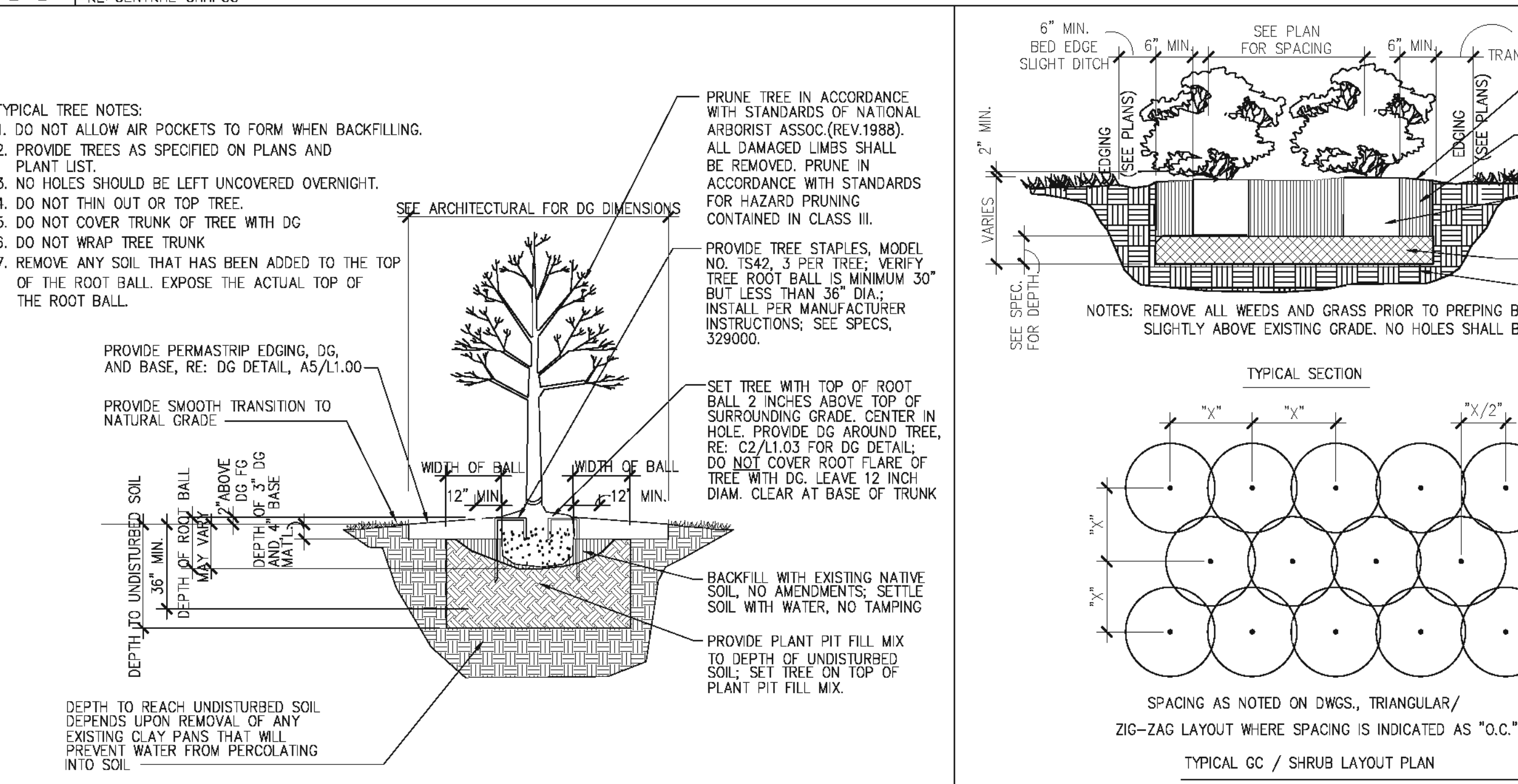
GENERAL NOTES:

- CONTRACTOR SHALL LOCATE UNDERGROUND UTILITIES PRIOR TO EXCAVATING OR TRENCHING. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, AS REQUIRED, ANY DAMAGED UTILITY AT NO ADDITIONAL COST TO OWNER.
- BED EDGES AND TREE LOCATIONS SHALL BE STAKED FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO ANY BED PREPARATION. BED EDGES SHALL HAVE SMOOTH, WELL DEFINED, EVEN AND CONSISTENT CURVES AS SHOWN ON THE DRAWINGS.
- THE QUANTITIES SHOWN ON THE PLANT SCHEDULE ARE FOR THE CONTRACTOR'S CONVENIENCE; VERIFY ALL QUANTITIES AND REPORT ANY DISCREPANCIES TO THE OWNER'S REP. PRIOR TO ORDERING MAT'L. DISCREPANCIES WITH THE PLAN SHALL NOT ENTITLE THE CONTRACTOR TO ADDITIONAL REMUNERATION.
- REFER TO TREE TRANSPLANT SPECIFICATION FOR TRANSPLANTED TREE INFORMATION.
- ALL PLANTS ARE TO BE SPECIMEN QUALITY, FULL POT AND HEAD, SYMMETRICAL FOLIAGE AND BRANCHING STRUCTURE. SHRUBS SHALL BE FULL TO GROUND.
- TREES SHALL HAVE CLEAR TRUNKS A MIN. OF 4 FT. ABOVE THE GROUND, UNLESS SPECIFIED OTHERWISE. PROVIDE SAMPLES OF MATERIALS FOR APPROVAL BY OWNER'S REP. PRIOR TO DELIVERY TO THE SITE. PLANT MATERIALS OF THE SAME SPECIES SHALL BE OBTAINED FROM THE SAME SOURCE. INTENT OF DRAWINGS AND SPECIFICATIONS ARE TO PROVIDE LANDSCAPING WITH PLANTS IN VIGOROUS GROWTH, READY FOR OWNER'S USE. ITEMS NOT SPECIFICALLY INDICATED ON THE DRAWINGS OR SPECIFIED BUT REQUIRED TO CONFORM WITH SUCH INTENT, ARE TO BE CONSIDERED AS PART OF THE WORK.
- ALTERNATE / TRIANGULAR SPACING OF PLANT MATERIALS ARE REQUIRED FOR SHRUBS AND GROUNDCOVER WHERE SHOWN AS "O.C." ON PLANS.
- SLOPE ALL BED AND TURF AREAS FOR POSITIVE DRAINAGE. DRAIN AWAY FROM THE BUILDING AND DRAIN TOWARDS THE INLETS. COORDINATE WITH CIVIL FOR FINAL GRADING REQUIRED.
- CONTRACTOR MUST SUBMIT WRITTEN CONFIRMATION FROM THE SUPPLIER THAT THE HIGHRISE OAKS ARE OF THE SPECIFIED PATENTED VARIETY OF OAKS.

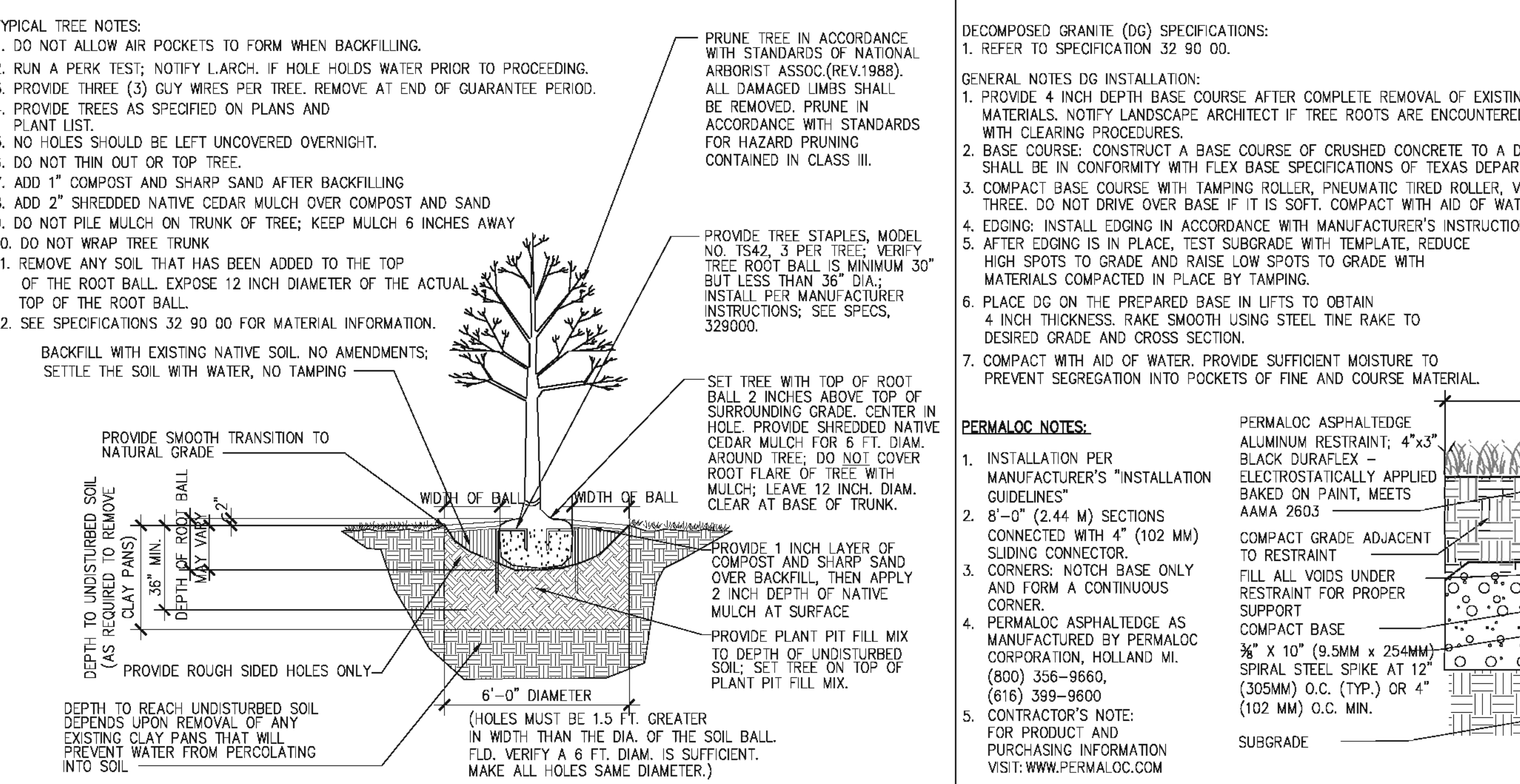
D3 PLANT SCHEDULE NO SCALE



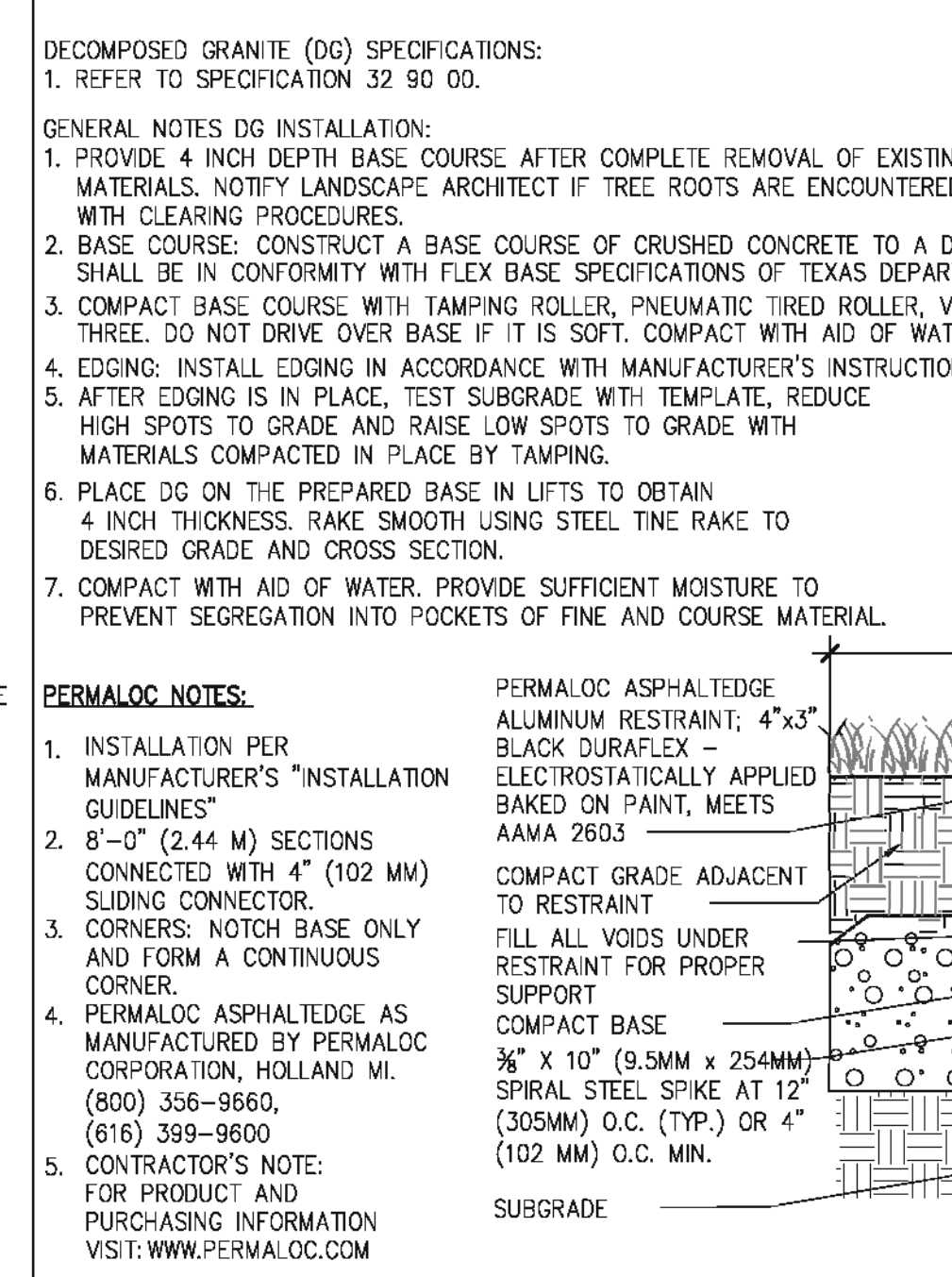
G3 TREE PROTECTION NOTES AND FENCING DETAIL NO SCALE



B3 TREE PLANTING DTL. @ DG NO SCALE



A3 TREE PLANTING DTL. NO SCALE



B5 GC/SHRUB DTL. NO SCALE

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1300 Holman Street
Houston, TX 77004

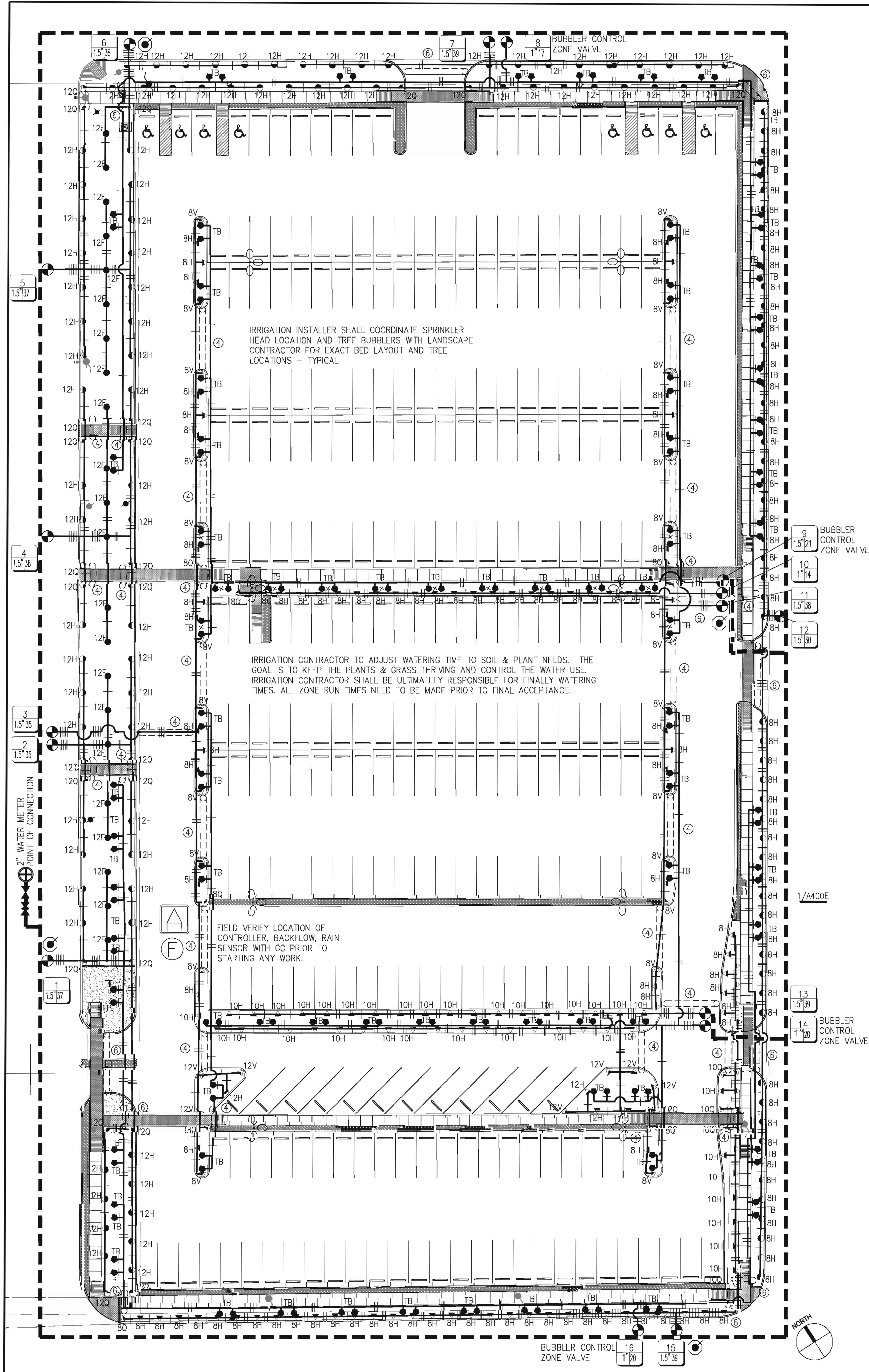
Contract No.: AVE Project No.: 724
Drawn By: CLP Date: 05/9/2011
Checked By: MSM Date: 05/9/2011
Approved By: CLP Date: 05/09/11

Ownership of Instruments of Service:
All reports, plans, specifications, computer files, field data, notes & other documents and instruments prepared for Houston Community College as instruments of service shall become the property of Houston Community College. Houston Community College shall gain all common law, statutory and other reserved rights, including the copyright thereto.

Landscape Plan and Details

Scale: VARIES

L1.00



IRRIGATION EQUIPMENT

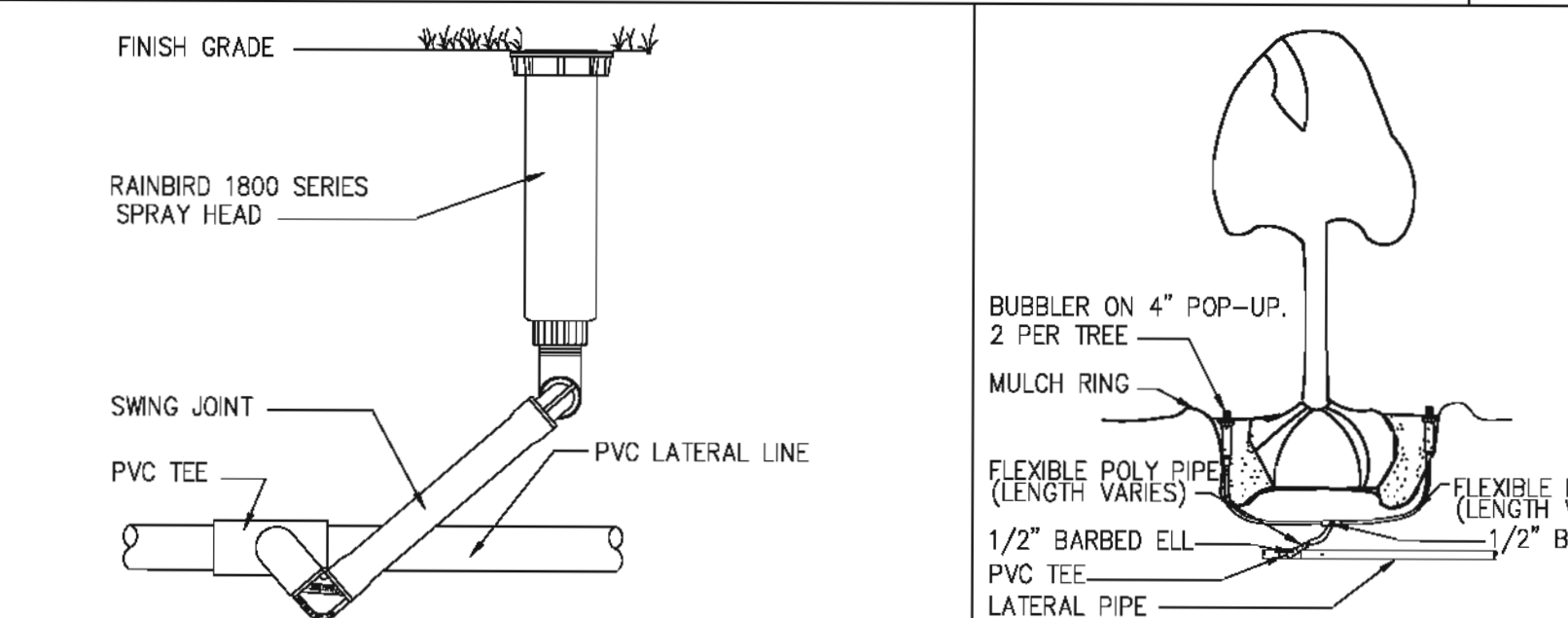
QUANTITY	SYMBOL	DESCRIPTION	SIZE
1	[Symbol]	2" FERCO 765 BACKFLOW PREVENTER	2"
1	[Symbol]	HUNTER ACC-990-PED SET ON CONCRETE PAD REF:DETAIL	-
5	[Symbol]	RB-33DR-QUICK COUPLE VALVE	3/4"
1	[Symbol]	MINI-CLICK RAIN SENSOR	-
4	[Symbol]	2" SERVICE VALVE (BALL TYPE)	LINE SIZE
1	[Symbol]	2" WATER METER - POINT OF CONNECTION	2"
-	[Symbol]	RAINBIRD XCZ-100-B-COM FOR TREE BUBBLERS 5-20 GPM	-
-	[Symbol]	RAINBIRD XCZ-150-B-COM FOR TREE BUBBLER WITH GPM'S>20	-
-	[Symbol]	RAINBIRD PEB REMOTE CONTROL VALVE (SIZED ON DWG.)	-

Irrigation Heads

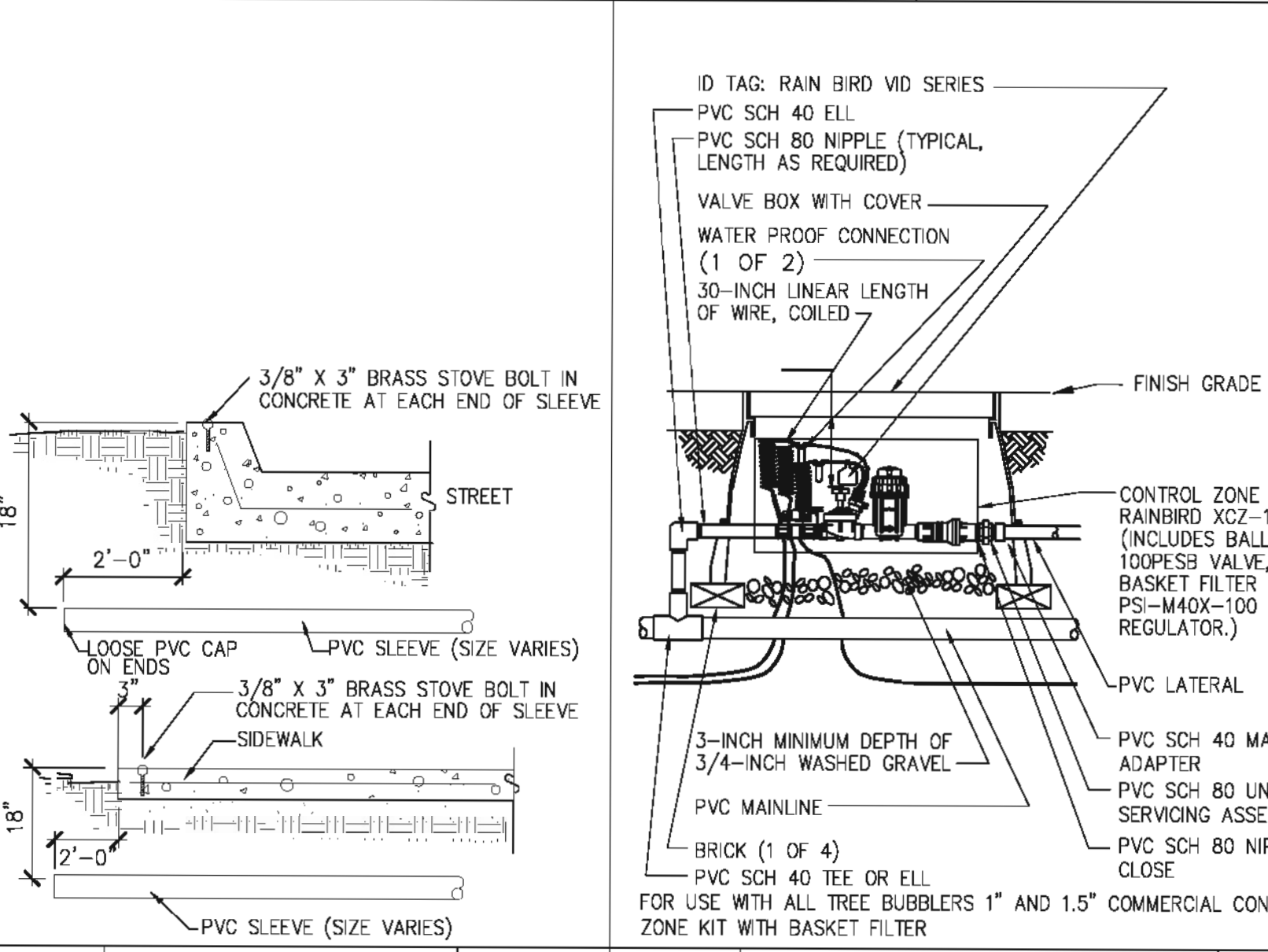
Symbol	Description
[Symbol]	RAINBIRD 1400 SERIES 1402 .5 GPM BUBBLERS ON 1804 BODY
[Symbol]	RAINBIRD 1804 SERIES Nozzle Size on Drawing - deg 360°
[Symbol]	RAINBIRD 1804 SERIES Nozzle Size on Drawing - deg 180°
[Symbol]	RAINBIRD 1804 SERIES Nozzle Size on Drawing - deg 90°
[Symbol]	RAINBIRD 1812 SERIES Nozzle Size on Drawing - deg 90°
[Symbol]	RAINBIRD 1812 SERIES Nozzle Size on Drawing - deg 180°
[Symbol]	RAINBIRD 1812 SERIES Nozzle Size on Drawing - deg 360°

Quantity	Symbol	Description	Size
-	[Symbol]	200 PSI SDR 21 PVC PIPE	1/2"
-	[Symbol]	200 PSI SDR 21 PVC PIPE	3/4"
-	[Symbol]	200 PSI SDR 21 PVC PIPE	1"
-	[Symbol]	200 PSI SDR 21 PVC PIPE	1-1/4"
-	[Symbol]	200 PSI SDR 21 PVC PIPE	1-1/2"
-	[Symbol]	SCHEDULE 40 PVC PIPE - MAINLINE	2"
-	[Symbol]	4" SCHEDULE 40 PVC PIPE - SLEEVE MATERIAL	4"
-	[Symbol]	6" SCHEDULE 40 PVC PIPE - SLEEVE MATERIAL	6"

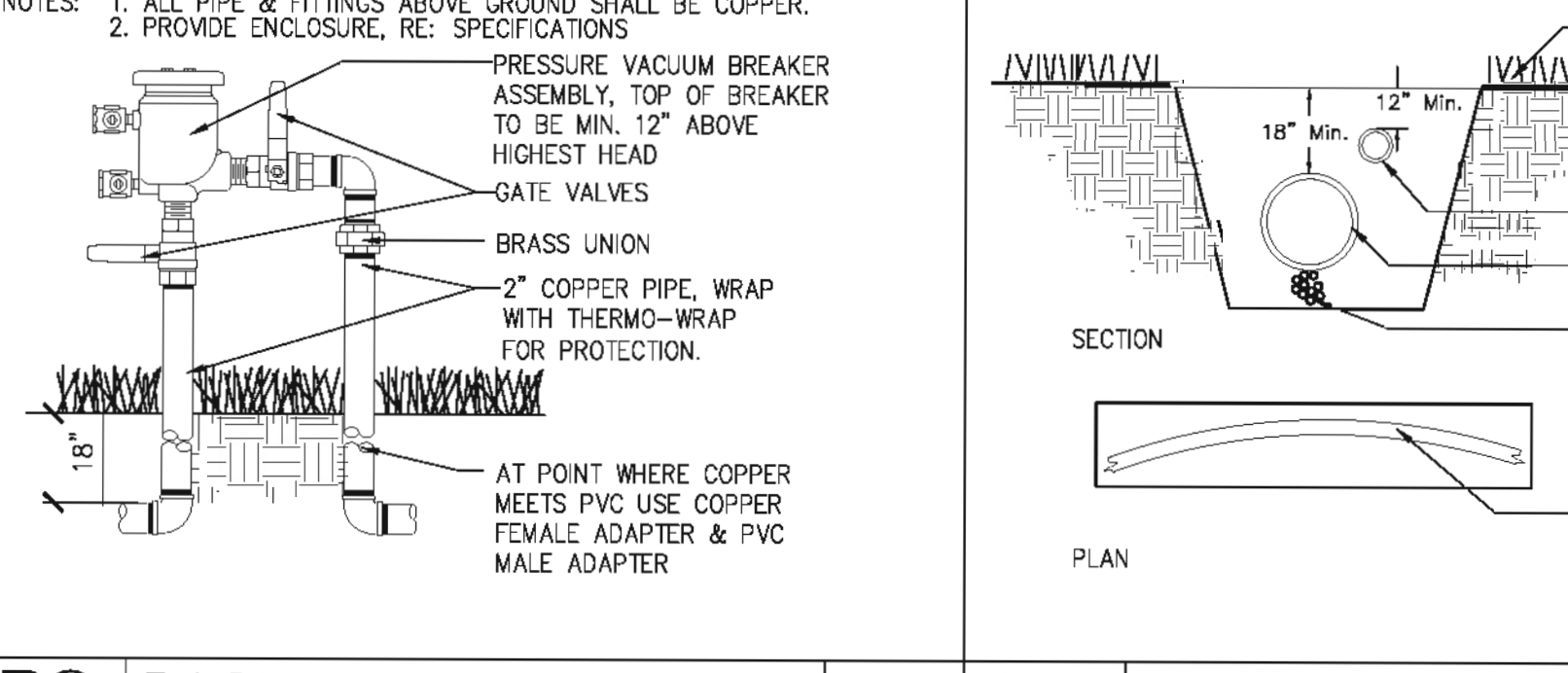
E3 IRRIGATION WATERING SCHEDULE NO SCALE



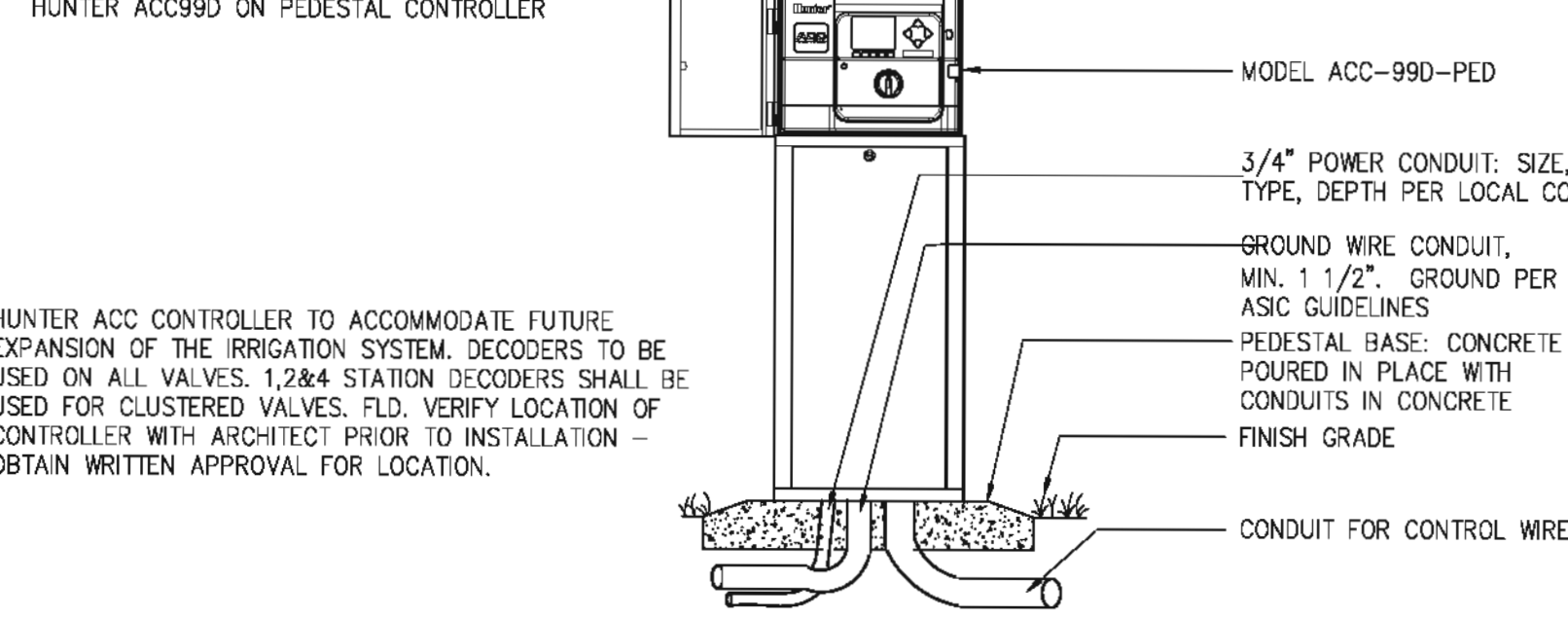
D3 POP-SPRINKLER DTL. NO SCALE



D4 TREE BUBBLER NO SCALE



C3 SLEEVE DTL. NO SCALE



B3 BACKFLOW PREVENTER NO SCALE

IRRIGATION WATERING SCHEDULE NO SCALE

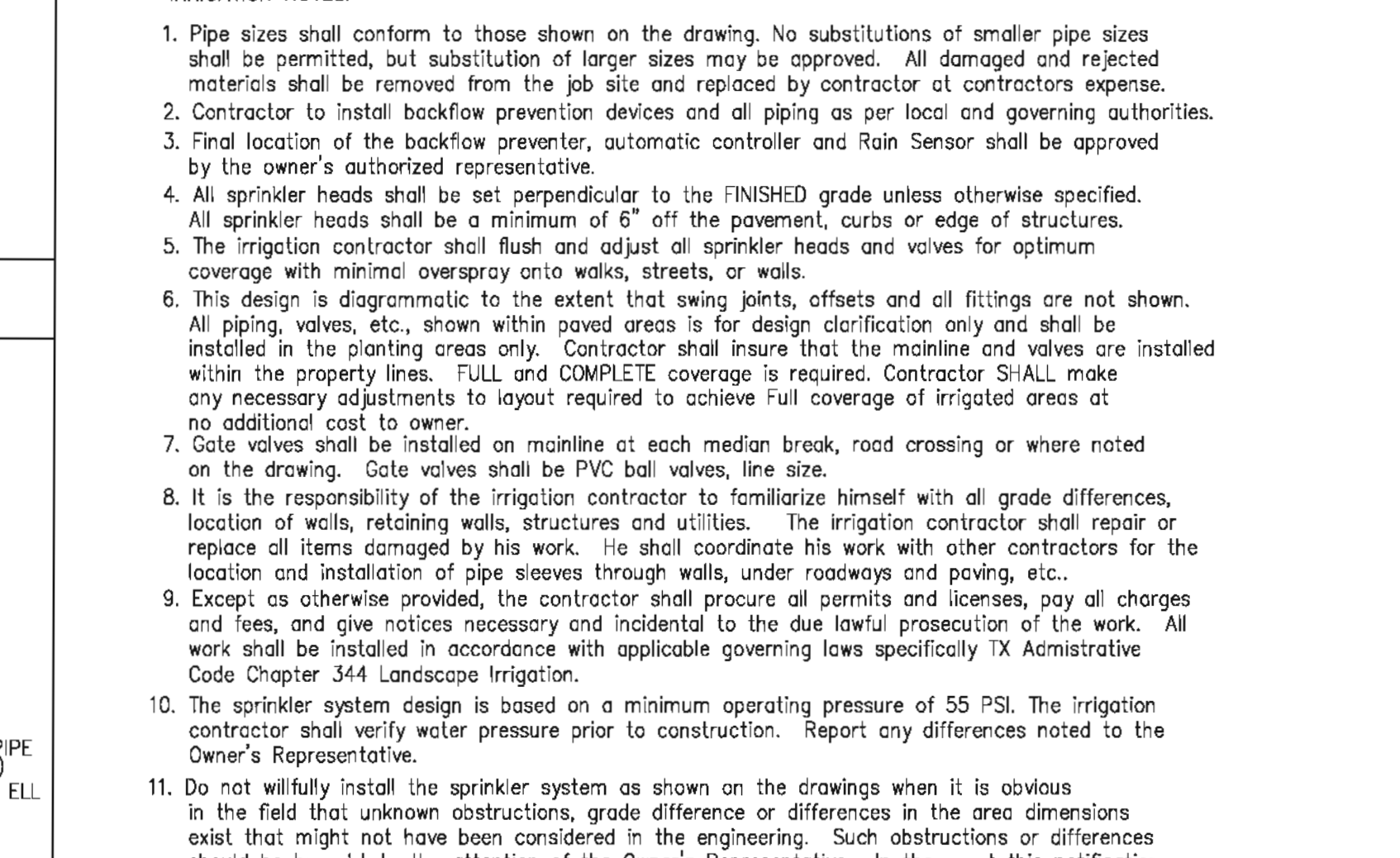
WATERING SCHEDULE / MONDAY, WEDS & FRIDAY
HCCS CENTRAL CAMPUS PARKING LOT - 1" OF WATER PER WEEK

Zone	Precipitation Rate (in/hr)	Flow Demand (gpm)	Weekly Run Time (min/week)	Weekly Water Usage (gal/week)	Average Daily Water Usage (gal/day)
1	1.10	37	54.40	202.80	670.93
2	1.10	35	54.40	190.4	634.66
3	1.10	35	54.40	190.4	634.66
4	1.10	38	54.40	206.72	689.27
5	1.10	37	54.40	202.80	670.93
6	1.10	38	54.40	206.72	689.27
7	1.10	39	54.40	212.16	707.2
8	BUBBLERS	17	-	-	-
9	BUBBLERS	21	-	-	-
10	0.85	14	70.58	888.25	329.42
11	0.89	38	67.41	2561.58	853.86
12	0.85	30	70.58	2117.4	705.80
13	1.02	39	54.40	2121.6	707.2
14	BUBBLERS	20	-	-	-
15	.89	39	67.41	2628.90	876.33
16	BUBBLERS	20	-	-	-
			708.18	24,507.93	

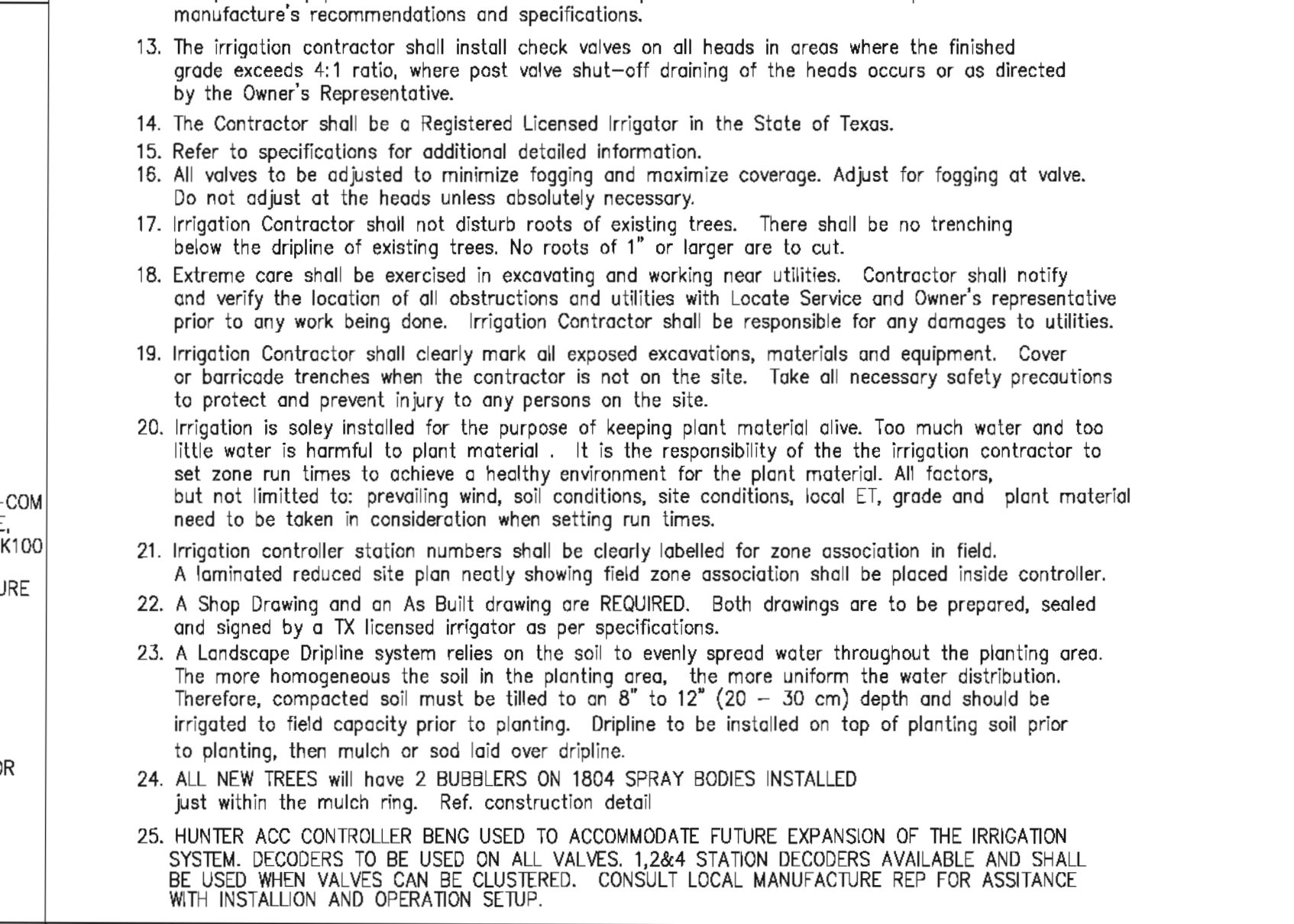
IRRIGATION NOTES:

- Pipe sizes shall conform to those shown on the drawing. No substitutions of smaller pipe sizes shall be permitted, but substitution of larger sizes may be approved. All damaged and rejected material shall be replaced from the job site and replaced by the contractor at contractor's expense.
- Contractor to install backflow prevention devices and all piping as per local and governing authorities.
- Final location of the backflow preventer, automatic controller and Rain Sensor shall be approved by the owner's authorized representative.
- All sprinkler heads shall be set perpendicular to the FINISHED GRADE unless otherwise specified. All sprinkler heads shall be a minimum of 6" off the pavement, curbs or edge of structures.
- The irrigation contractor shall flush and adjust all sprinkler heads and valves for optimum coverage with minimal overspray onto walks, streets, or walls.
- This design is diagrammatic to the extent that swing joints, offsets and all fittings are not shown. All piping, valves, etc., shown within paved areas is for design clarification only and shall be installed in the planting areas only. Contractor shall insure that the mainline and valves are installed within the property lines. FULL and COMPLETE coverage is required. Contractor SHALL make any necessary adjustments to layout required to achieve full coverage of irrigated areas at no additional cost to owner.
- Gate valves shall be installed on mainline at each median break, road crossing or where noted on the drawing. Gate valves shall be PVC ball valves, line size.
- It is the responsibility of the irrigation contractor to familiarize himself with all grade differences, location of walls, retaining walls, structures and utilities. The irrigation contractor shall repair or replace all items damaged by his work. He shall coordinate his work with other contractors for the location and installation of pipe sleeves through walls, under roadways and paving, etc.
- Except as otherwise provided, the contractor shall procure all permits and licenses, pay all charges and fees, and give notice in full and complete coverage is required. Contractor SHALL make any necessary adjustments to layout required to achieve full coverage of irrigated areas at no additional cost to owner.
- The sprinkler system design is based on a minimum operating pressure of 55 PSI. The irrigation contractor shall verify water pressure prior to construction. Report any differences noted to the Owner's Representative.
- Do not willfully install the sprinkler system as shown on the drawings when it is obvious in the field that unknown obstructions, grade difference or differences in the area dimensions exist that might not have been considered in the engineering. Such obstructions or differences should be brought to the attention of the Owner's Representative. In the event this notification is not performed, the irrigation contractor shall assume full responsibility for any revisions necessary.
- All sprinkler equipment not otherwise detailed or specified shall be installed as per manufacturer's recommendations and specifications.
- The irrigation contractor shall install check valves on all heads in areas where the finished grade exceeds 4:1 ratio, where post valve shut-off draining of the heads occurs or as directed by the Owner's Representative.
- The Contractor shall be a Registered Licensed Irrigator in the State of Texas.
- Refer to specifications for additional detailed information.
- All valves to be adjusted to minimize fogging and maximize coverage. Adjust for fogging at valve. Do not adjust at the heads unless absolutely necessary.
- Irrigation Contractor shall not disturb roots of existing trees. There shall be no trenching below the drip line of existing trees. No roots of 1" or larger are to cut.
- Extreme care shall be exercised in excavating and working near utilities. Contractor shall notify and verify the location of all obstructions and utilities with Locust Service and Owner's representative prior to any work being done. Irrigation Contractor shall be responsible for any damages to utilities.
- Irrigation Contractor shall clearly mark all exposed excavations, materials and equipment. Cover or barricade trenches when the contractor is not on the site. Take all necessary safety precautions to protect and prevent injury to any persons on the site.
- Irrigation is solely installed for the purpose of keeping plant material alive. Too much water and too little water is harmful to plant material. It is the responsibility of the irrigation contractor to set zone run times to achieve a healthy environment for the plant material. All factors, but not limited to prevailing wind, soil conditions, site conditions, local ET, grade and plant material need to be taken in consideration when setting run times.
- Irrigation controller station numbers shall be clearly labeled for zone association in field. A laminated reduced size plan neatly showing field zone association shall be placed inside controller.
- A Shop Drawing and an As-Built drawing are REQUIRED. Both drawings are to be prepared, sealed and signed by a TX Licensed Irrigator as per specifications.
- A Landscape Drip line system relies on the soil to evenly spread water throughout the planting area. The more homogeneous the soil in the planting area, the more uniform the water distribution. Therefore, compacted soil must be tilled to an 8" to 12" (20 - 30 cm) depth and should be irrigated to field capacity prior to planting. Drip line to be installed on top of planting soil prior to planting, then mulch or sod laid over drip line.
- ALL NEW TREES will have 2 BUBBLERS ON 1804 SPRAY BODIES INSTALLED just within the mulch ring. Ref: contractor detail.
- HUNTER ACC CONTROLLER BEING USED TO ACCOMMODATE FUTURE EXPANSION OF THE IRRIGATION SYSTEM. DECODERS TO BE USED ON ALL VALVES. 1.284 STATION DECODERS AVAILABLE AND SHALL BE USED WHEN VALVES CAN BE CLUSTERED. CONSULT LOCAL MANUFACTURE REP FOR ASSISTANCE WITH INSTALLATION AND OPERATION SETUP.

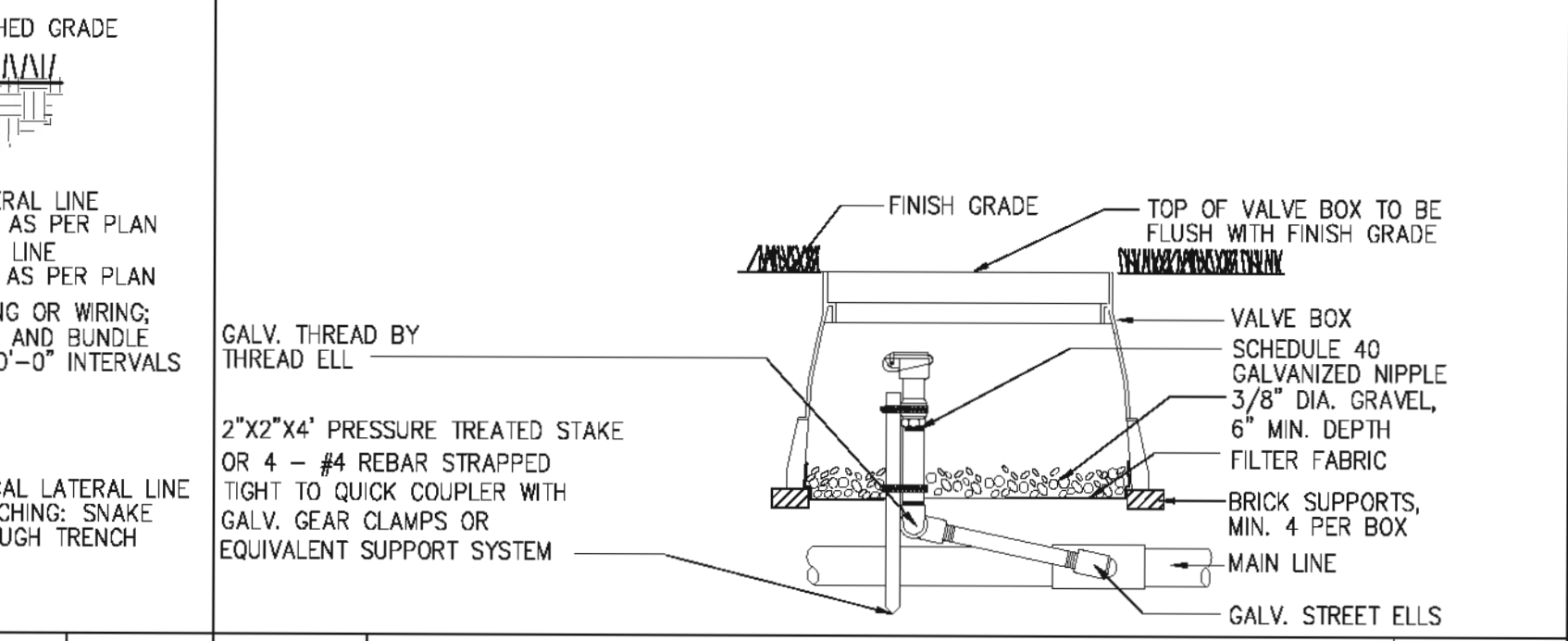
E5 IRRIGATION WATERING SCHEDULE NO SCALE



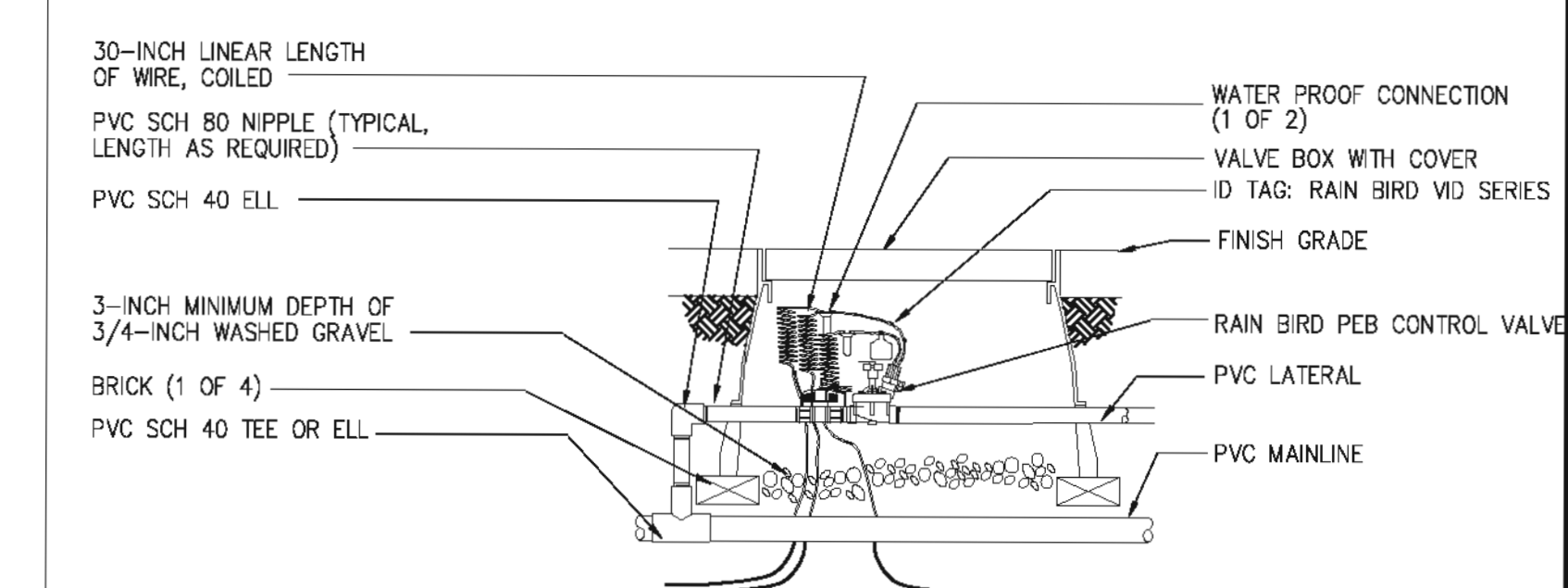
D4 TREE BUBBLER NO SCALE



B5 POP-SPRINKLER DTL. NO SCALE



B4 PIPE TRENCH DTL. NO SCALE



A5 ZONE VALVE CONTROL NO SCALE

A1 IRRIGATION PLAN - PARKING LOT

A3 IRRIG CONTROLLER ACC99D NO SCALE

A5 ZONE VALVE CONTROL NO SCALE



Houston Community College

HCC - Construction Department
3100 Main, 12th Floor
Houston, Texas, 77002
Voice: 713.718.5168
reynaldo.pradia@hccs.edu



Issue/Revision:

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR BID & CONSTRUCTION	05/09/11	JA

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5120 Woodway, Suite 8010
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f: 713.850.1023
e: info@ihdnet.net

ESPA CORP
ENGINEERS SCIENTISTS PLANNERS & ARCHITECTS
11000 DALLAS ROAD, SUITE 500
HOUSTON, TEXAS 77054
713.860.0800
713.860.0750

ENVIRONMENTAL
ARCHITECTURE + INTERIORS + LANDSCAPE + PLANNING
2150 PROVED ROAD, BLDG 4 #411
HOUSTON, TEXAS 77058
713.860.7745
281-799-1812

STUDIO OF RICHARD JETER MFA
1840 REBBLE BEND DR
HOUSTON, TEXAS 77058

EAC Engineers & Consultants, Inc.
1010 Lamar, #650
Houston, Texas 77002
713.580.8900
713.580.8888 Fax

Central Campus Parking Lot Improvements
1300 Holman Street
Houston, TX 77004

Contract No.: A/E Project No.: 724
Drawn By: PJ Date: 05/09/2011
Checked By: CLP Date: 05/09/2011
Approved By: CLP Date:

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Irrigation Plan and Details

Scale: VARIES

L1.01