

CITY OF HOUSTON

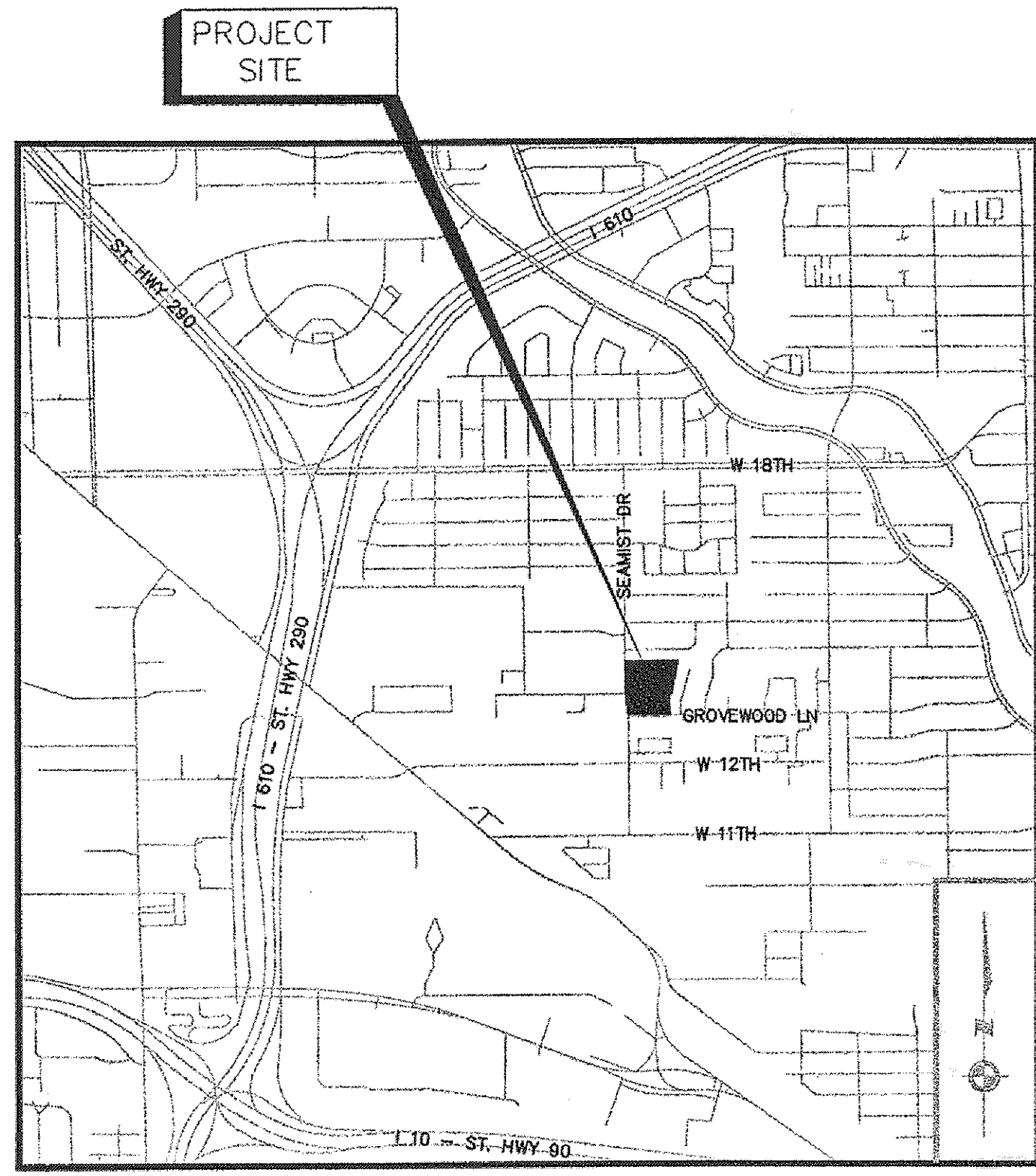
GENERAL SERVICES DEPARTMENT

PARKS CAPITAL IMPROVEMENT PROGRAM

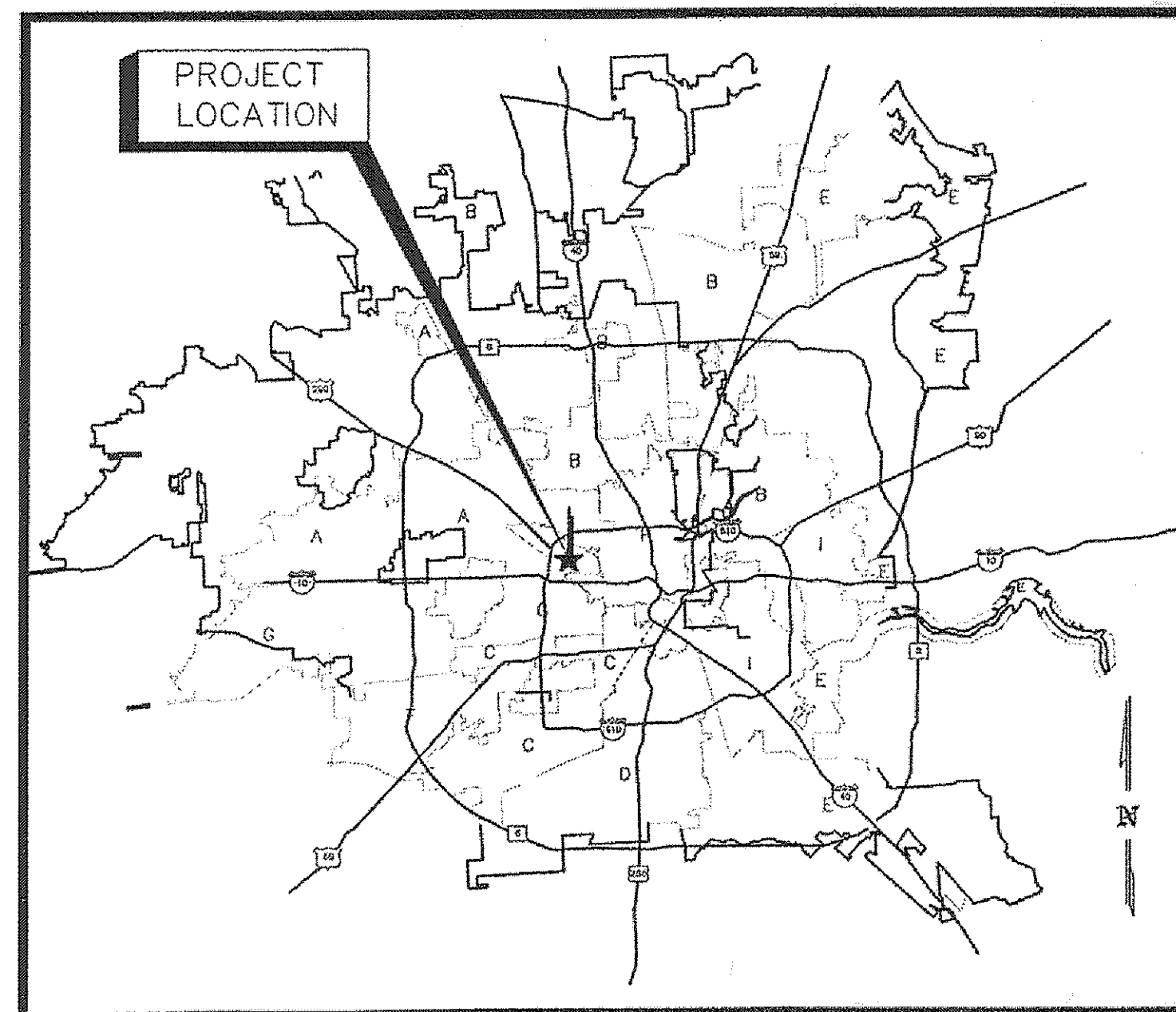
JAYCEE PARK LIGHTING

1300 SEAMIST ST.
WBS No. F-000758-0001-4

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VICINITY MAP
N.T.S. KEYMAP: 452 U



LOCATION MAP



MAYOR
ANNISE D. PARKER

CONTROLLER
RONALD C. GREEN

DISTRICT COUNCIL MEMBERS

- | | | |
|---------------------------------|-------------------------------|-------------------------------|
| BRENDA STARDIG
DISTRICT A | JERRY DAVIS
DISTRICT B | ELLEN COHEN
DISTRICT C |
| DWIGHT BOYKINS
DISTRICT D | DAVE MARTIN
DISTRICT E | RICHARD NGUYEN
DISTRICT F |
| OLIVER PENNINGTON
DISTRICT G | EDWARD GONZALEZ
DISTRICT H | ROBERT GALLEGOS
DISTRICT I |
| MIKE LASTER
DISTRICT J | | LARRY GREEN
DISTRICT K |

AT-LARGE COUNCIL MEMBERS

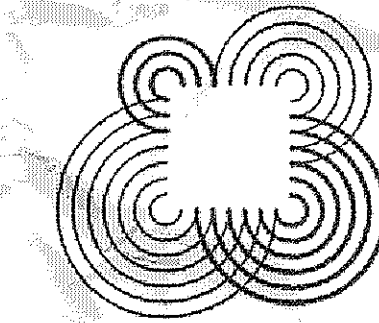
- | | |
|----------------------------------|------------------------------------|
| STEVEN C. COSTELLO
POSITION 1 | DAVID ROBINSON
POSITION 2 |
| MICHAEL KUBOSH
POSITION 3 | C.O. "BRAD" BRADFORD
POSITION 4 |
| JACK CHRISTIE
POSITION 5 | |

JOE TURNER - DIRECTOR
PARKS & RECREATION DEPARTMENT

APPROVED
FOR BUILDING PERMIT ONLY
CITY OF HOUSTON
CODE ENFORCEMENT DIVISION

The owner is responsible for compliance with the Building Code. Such approved plans and specifications shall not be changed, modified or altered without authorizations from the building official, and all work shall be done in accordance with the approved plans

NO. 386



CLARK CONDON ASSOCIATES
LANDSCAPE ARCHITECTURE

10401 Stella Link Road Houston, Texas 77025
TEL 713.871.1414 FAX 713.871.0888
www.clarkcondon.com

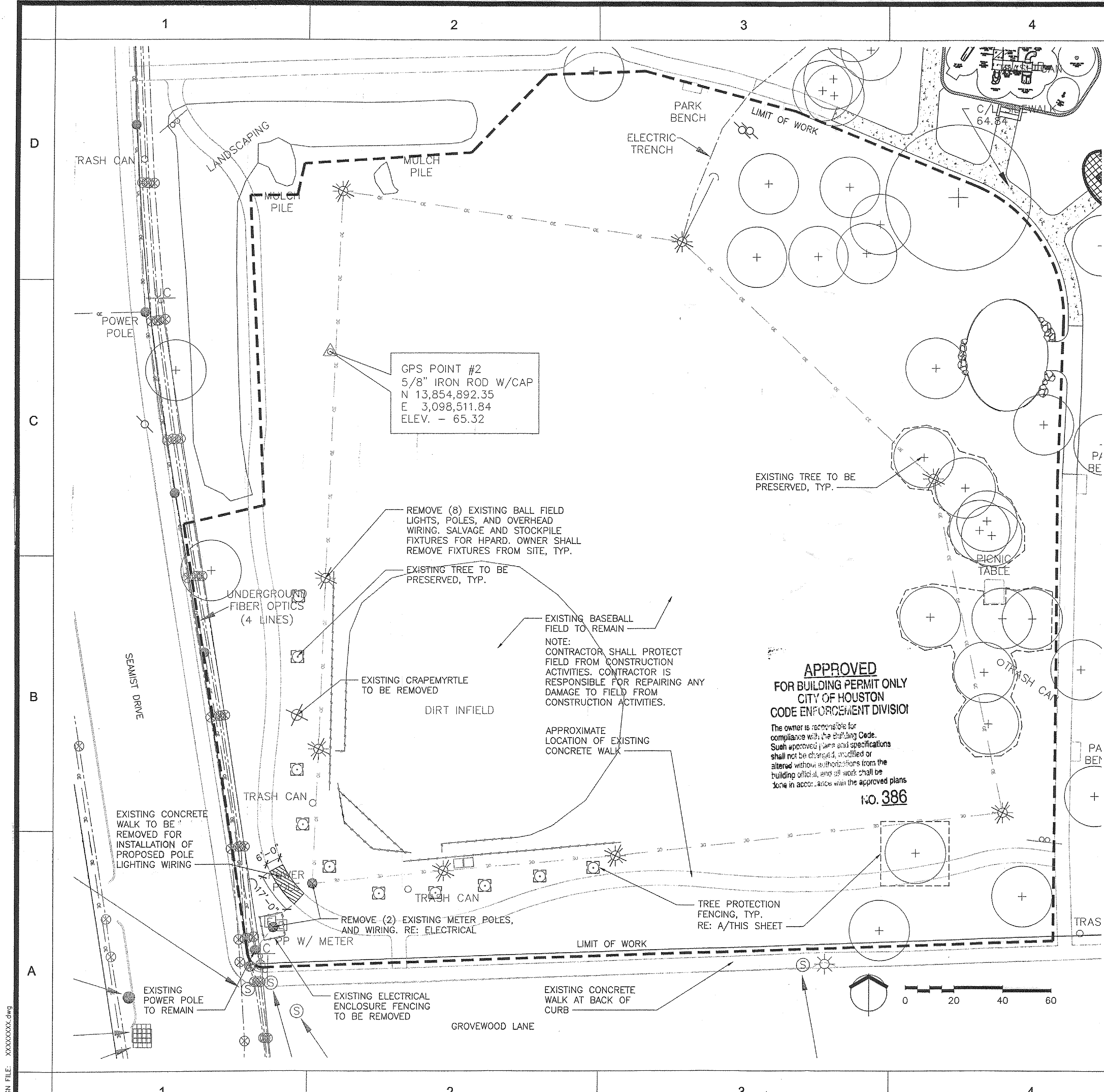


HUNT & HUNT ENGINEERING CORP.
HOUSTON, TEXAS 77215
TSPS FIRM NO. F-3448

WATER _____	CONSTRUCTION _____
WASTEWATER _____	TRAFFIC AND TRANSPORTATION _____
STORM WATER _____	SPONSOR DEPARTMENT _____
STREET & BRIDGE _____	CHIEF ENGINEER _____
CITY ENGINEER _____ DATE _____	
DIRECTOR OF PUBLIC WORKS AND ENGINEERING _____	

CONTRACTING AUTHORITY
FOR THE
CITY OF HOUSTON:
GENERAL SERVICES DEPARTMENT
SCOTT MINNIX, DIRECTOR
CITY DWG. No: _____
SHEET No. 1 OF 9 SHEETS

15072212

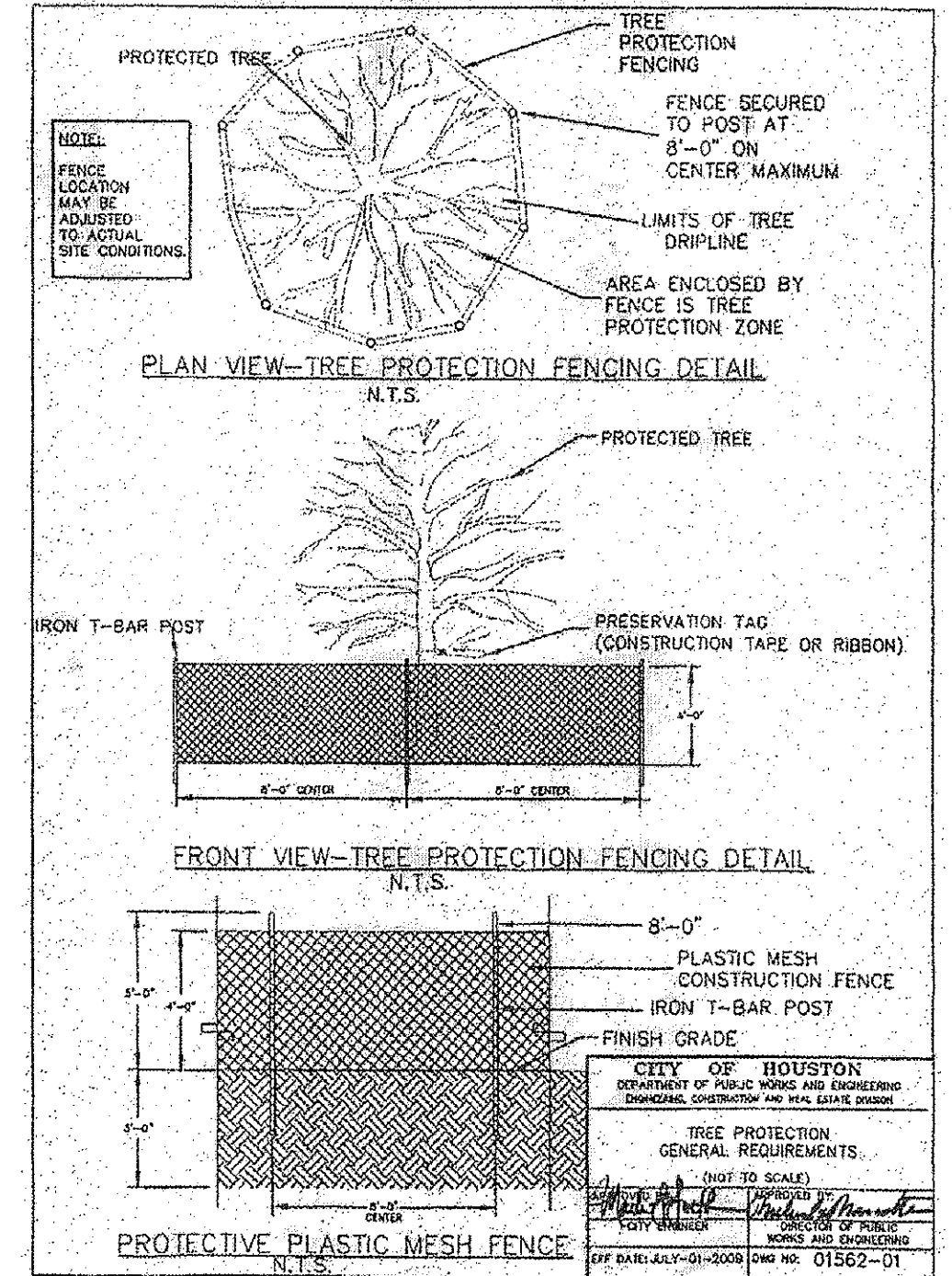


DEMOLITION NOTES:

1. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITIES PRIOR TO COMMENCING WORK. NOTIFY VARIOUS UTILITY COMPANIES A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OF ANY UTILITIES DAMAGED DURING CONSTRUCTION.
3. CONTRACTOR SHALL CONTACT OWNER FOR FIRST RIGHT TO REFUSAL FOR SALVAGE OF MATERIALS. ALL OTHER DEMOLISHED MATERIALS SHALL BE DISPOSED OF IN A LEGAL FASHION.
4. CONTRACTOR SHALL REPAIR AT NO COST TO THE OWNER ANY DAMAGE TO CURBS OR STREETS CAUSED BY CONSTRUCTION. REPAIRS TO BE IN ACCORDANCE WITH CITY OF HOUSTON STANDARDS.
5. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL EXISTING TREES ON SITE.
6. CONTRACTOR SHALL NOT PARK VEHICLES OR EQUIPMENT OR STOCKPILE MATERIALS UNDER THE DRIP LINE OF EXISTING TREES.
7. CONTRACTOR SHALL PROVIDE FOR ROUTINE MAINTENANCE IN AREAS OF CONSTRUCTION.
8. CONTRACTOR SHALL REPAIR DAMAGE TO GRADES AND LAWN CAUSED BY DEMOLITION.

TREE PROTECTION NOTES:

1. CONTRACTOR SHALL NOT ALLOW ANY VEHICULAR TRAFFIC, PARKING OF VEHICLES, OR STOCKPILING OF EXCAVATED MATERIAL OR CONSTRUCTION MATERIALS INSIDE OF TREE PROTECTION FENCING OR THE DRILINE OF TREES INDICATED TO BE PRESERVED.
2. CONSTRUCTION EQUIPMENT MAY OPERATE WITHIN THE DRIP LINE OF A TREE WHEN NECESSARY FOR THE PERFORMANCE OF INDICATED WORK. SUCH OPERATIONS SHALL BE CONDUCTED WITH SPECIAL CARE TO AVOID DAMAGING THE TREE.
3. WATER TREES INDICATED TO BE PRESERVED AS REQUIRED TO MAINTAIN THEIR HEALTHY GROWTH DURING THE COURSE OF CONSTRUCTION OPERATIONS.
4. PROTECT TREE ROOT SYSTEMS FROM DAMAGE DONE BY STRIPPING AND REGRADING. ALL EXCAVATION AND GRADING WORK SHALL BE DONE BY HAND TOOLS WHILE WORKING WITHIN TREE DRILINES.
5. PROTECT TREE ROOT SYSTEMS FROM DAMAGE DUE TO NOXIOUS MATERIALS IN SOLUTION CAUSED BY RUN-OFF OR SPILLAGE DURING MIXING AND PLACEMENT OF CONSTRUCTION MATERIALS, OR DRAINAGE FROM STORED MATERIALS.
6. MAINTAIN TREE PROTECTION FENCING IN GOOD CONDITION AT ALL TIMES. TREE PROTECTION FENCING SHALL BE IN PLACE PRIOR TO BEGINNING ANY WORK AND SHALL NOT BE REMOVED UNTIL ALL CONSTRUCTION WORK IS COMPLETE.

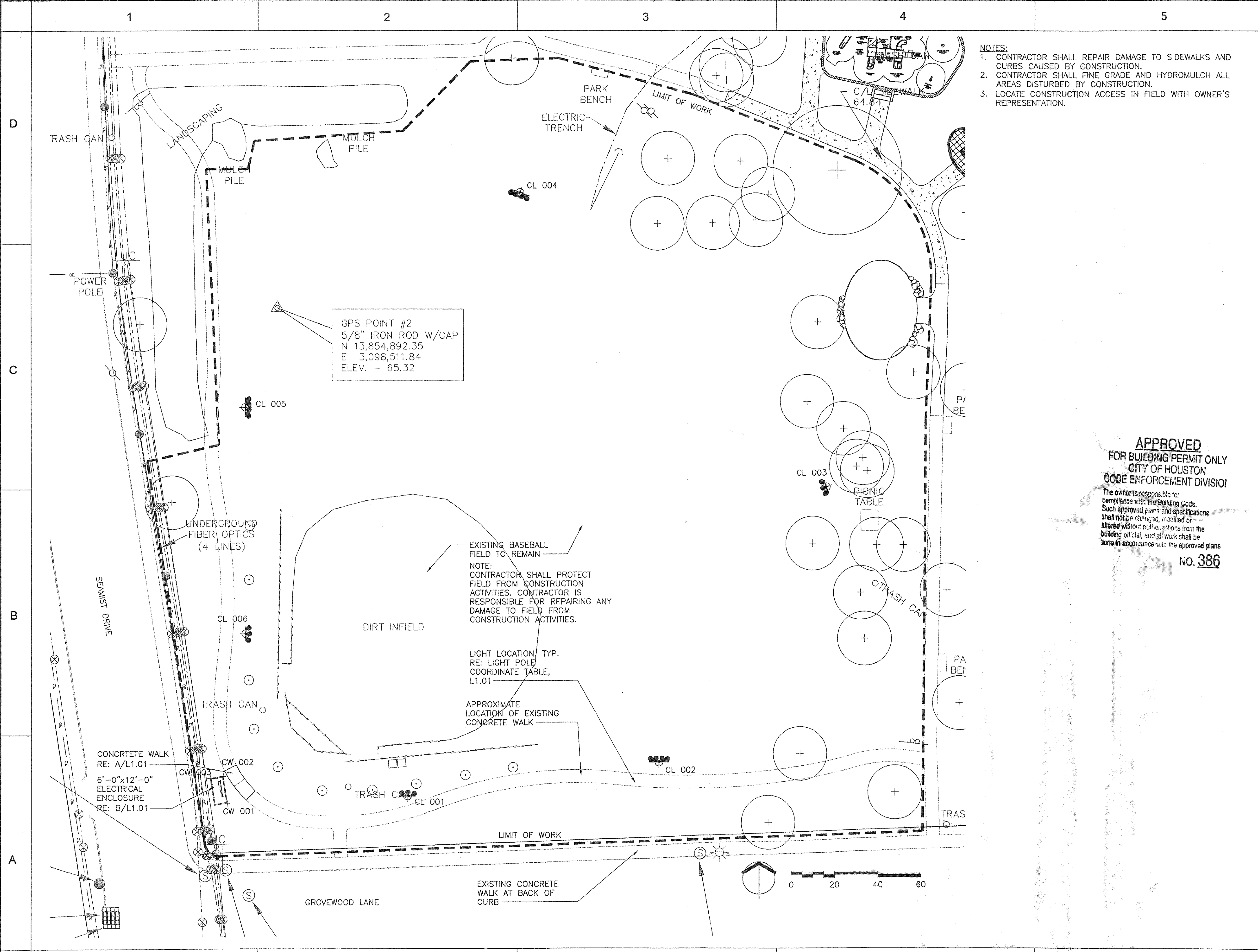


A TREE PROTECTION

ISSUE LOG		
NO.	DATE	DESCRIPTION
1	06/19/2015	FOR PERMIT
CONSULTANT(S):		
 10401 Stella Link Road Houston, Texas 77035 TEL 713.871.1414 FAX 713.871.6888 www.clarkcondon.com		
 HOUSTON, TEXAS 77215 TSP# FIRM NO. F-3448		
SEAL(S):		
PROJECT NAME:		
JAYCEE PARK LIGHTING 1300 SEAMIST ST. 77008		
 CITY OF HOUSTON GENERAL SERVICES DEPARTMENT		
REVIEWED:		
PROGRAM MANAGER	SPONSORING DEPARTMENT	
PROJECT MANAGER		
CITY ENGINEER - BSD		
OTHER APPROVALS:		
WATER ENGINEERING	TRAFFIC AND TRANSPORTATION	
WASTEWATER ENGINEERING	STREET, BRIDGE & ROW ENGINEERING	
STORMWATER ENGINEERING	PLANNING & DEVELOPMENT	
CITY ENGINEER - PWE	DATE	
DIRECTOR, DEPT. OF PUBLIC WORKS & ENGINEERING	DATE	
DATE :	06/16/2015	
W.B.S. No :	F-000758-0001-4	
SCALE :		
DRAWN BY :	KWL	
CHECKED BY :	SSS	
SHEET TITLE:		
DEMOLITION AND TREE PROTECTION PLAN AND DETAILS		
SHEET NO.:		
D1.00 OF SHEETS		
CITY DWG. NO.:		

DESIGN FILE: XXXXXXXX.dwg

DESIGN FILE: XXXXXXXX.dwg



- NOTES:
1. CONTRACTOR SHALL REPAIR DAMAGE TO SIDEWALKS AND CURBS CAUSED BY CONSTRUCTION.
 2. CONTRACTOR SHALL FINE GRADE AND HYDROMULCH ALL AREAS DISTURBED BY CONSTRUCTION.
 3. LOCATE CONSTRUCTION ACCESS IN FIELD WITH OWNER'S REPRESENTATION.

APPROVED
 FOR BUILDING PERMIT ONLY
 CITY OF HOUSTON
 CODE ENFORCEMENT DIVISION

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CONSULTANT(S):

CLARK CONDON ASSOCIATES
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 10401 Stella Link Road Houston, Texas 77025
 TEL 713.871.1414 FAX 713.871.0588
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HUNT & HUNT ENGINEERING CORP.
 HOUSTON, TEXAS 77215
 TYPE FIRM NO. F-3446

SEAL(S):

PROJECT NAME:
JAYCEE PARK LIGHTING
 1300 SEAMIST ST.
 77008

CITY OF HOUSTON
 GENERAL SERVICES DEPARTMENT

REVIEWED:

PROGRAM MANAGER _____ SPONSORING DEPARTMENT _____
 PROJECT MANAGER _____
 CITY ENGINEER - BSD _____

OTHER APPROVALS:

WATER ENGINEERING _____ TRAFFIC AND TRANSPORTATION _____
 WASTEWATER ENGINEERING _____ STREET, BRIDGE & ROW ENGINEERING _____
 STORMWATER ENGINEERING _____ PLANNING & DEVELOPMENT _____

CITY ENGINEER - PWE _____ DATE _____
 DIRECTOR, DEPT. OF PUBLIC WORKS & ENGINEERING _____ DATE _____

DATE: 06/16/2015
 W.B.S. No.: F-000758-0001-4
 SCALE: _____
 DRAWN BY: KWL
 CHECKED BY: SSS

SHEET TITLE:
CONSTRUCTION AND PLANTING PLAN

SHEET NO.:
L1.00
 OF SHEETS

CITY DWG. NO.:

00 FILE :

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CONCRETE NOTES:

- ALL CONCRETE REINFORCING BARS SHALL CONFORM TO ASTM A 615, GRADE 60, EXCEPT WHERE NOTED. NO. 3 BARS SHALL CONFORM TO ASTM A615, GRADE 40.
- CONCRETE IN THE FOLLOWING AREAS SHALL HAVE SAND AND GRAVEL AGGREGATE, TYPE 1 PORTLAND CEMENT, AND THE FOLLOWING DESIGNATED COMPRESSIVE STRENGTH OF (F'C) IN 28 DAYS. UNDERREAM FOOTINGS 2500 PSI, ALL OTHER CONCRETE 3000PSI
- CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS FOLLOWS, SEE SEC. 7.7 ACI 318-89 FOR CONDITIONS NOT NOTED. CHAIR REINFORCEMENT TO ADEQUATELY SUPPORT BARS FOR PROPER CLEARANCE AS RECOMMENDED BY THE CONCRETE REINFORCING STEEL INSTITUTE. SLAB ON GRADE REINFORCEMENT SHALL BE SUPPORTED AT 48 INCH MAXIMUM INTERVALS. FOOTINGS 3" GRADE BEAMS 3" BOTTOM, 2" SIDE, 3" EARTH FORMED, 1/2" TOP.
- NO HORIZONTAL JOINTS WILL BE PERMITTED IN CONCRETE EXCEPT WHERE THEY NORMALLY OCCUR OR AT LOCATIONS APPROVED BY THE STRUCTURAL ENGINEER.
- DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI PUBLICATION 315, LATEST EDITION. ALL HOOKED BARS SHOWN IN DETAILS SHALL HAVE STANDARD HOOKS UNLESS NOTED OTHERWISE.
- REINFORCING BARS SHALL NOT BE WELDED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
- UNLESS OTHERWISE NOTED CONTINUOUS BOTTOM REINFORCING BARS SHALL BE SPLICED AT SUPPORTS AND CONTINUOUS TOP REINFORCING BARS SHALL BE SPLICED AT MID-SPAN. ALL TOP REINFORCING SHALL HAVE STD ACI 90 DEGREE BENDS AT THE END OF ALL BEAMS.
- ALL CONTINUOUS REINFORCEMENT SHALL LAP 40 BAR DIAMETER AT SPLICES.
- ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE.

CONSTRUCTION NOTES:

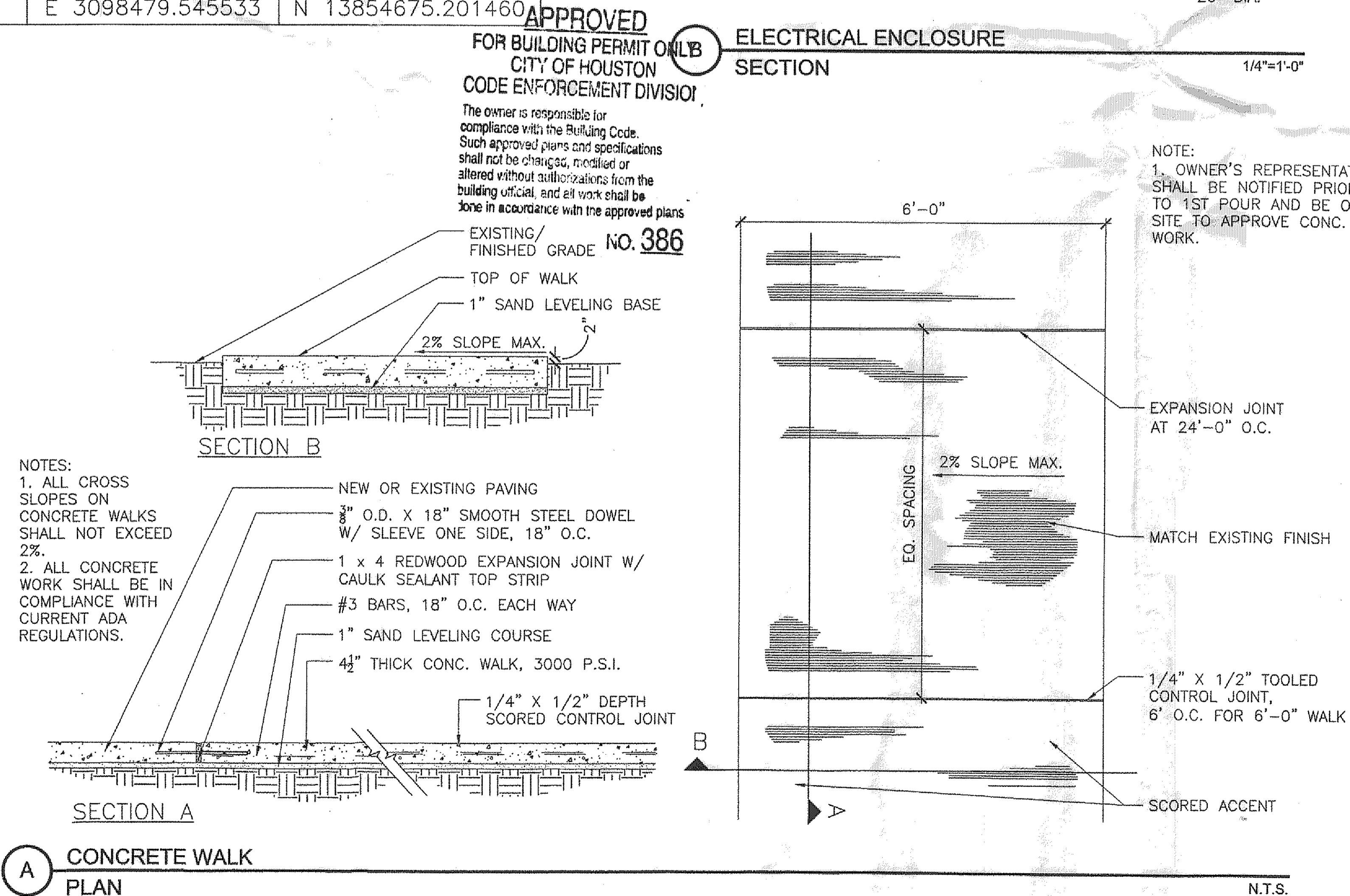
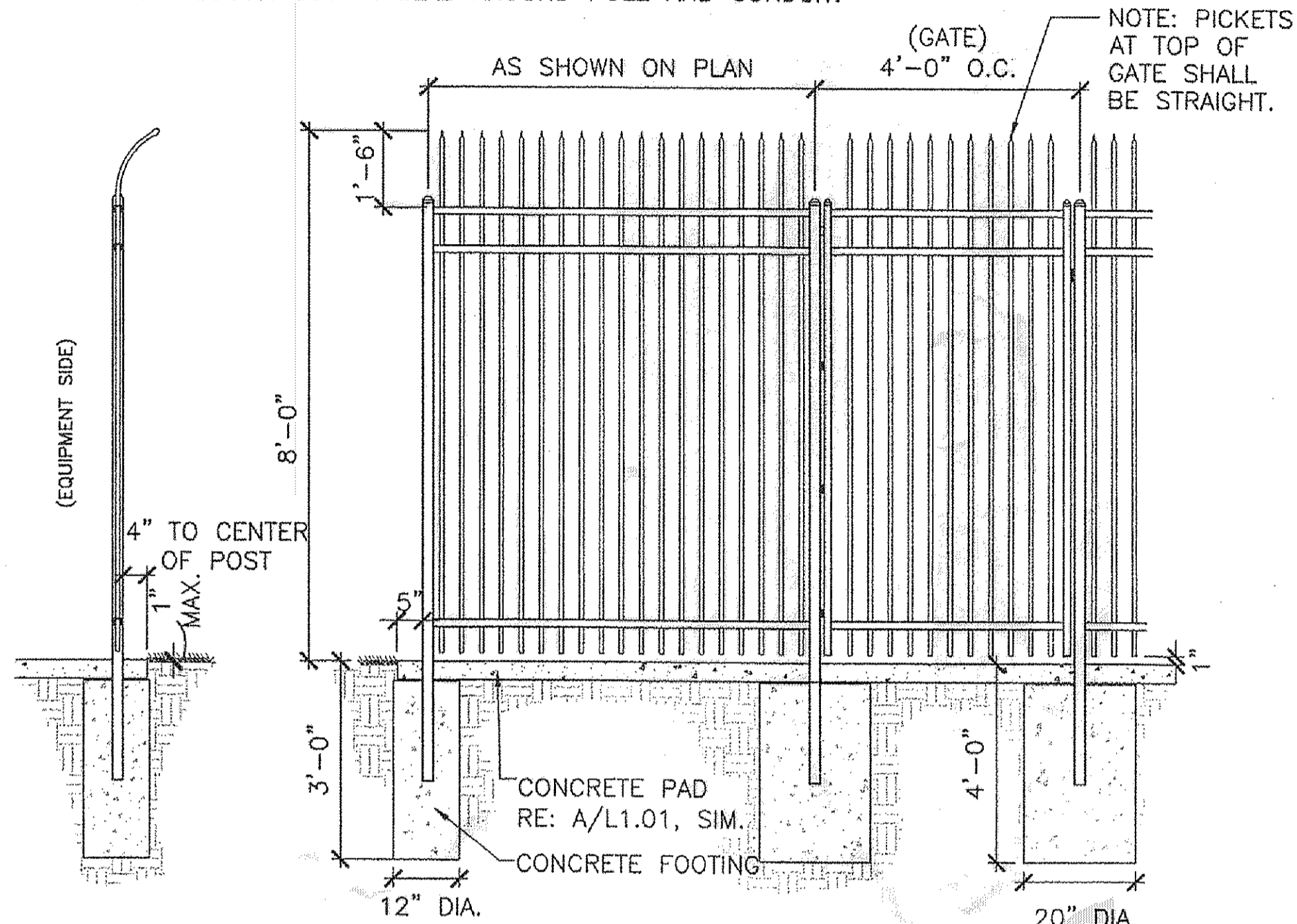
- CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL EXISTING GRADES DAMAGED DURING CONSTRUCTION.
- CONTRACTOR SHALL REPAIR DAMAGE TO EXISTING TURF AREAS CAUSED BY CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND/OR REPLACING ANY DAMAGED UTILITIES AT NO ADDITIONAL COST TO THE OWNER.
- EXISTING UNDERGROUND UTILITIES ARE NOT SHOWN. CONTRACTOR TO CONTACT 1-800-669-8344 A MIN. OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UTILITIES FIELD LOCATED.
- ALL CONSTRUCTION TO COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES.
- CONTRACTOR TO COORDINATE WORK WITH OTHER TRADES ON THE PROJECT.
- CONTRACTOR SHALL BE FAMILIAR WITH ACTUAL SITE CONDITIONS BEFORE PROCEEDING WITH WORK.
- ANY DISCREPANCIES BETWEEN ACTUAL SITE CONDITIONS AND THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF OWNER'S REPRESENTATIVE IN A TIMELY MANNER TO NOT ADVERSELY AFFECT PROGRESS OF WORK.
- CONSTRUCTION ACCESS SHALL BE APPROVED BY OWNER PRIOR TO BEGINNING WORK. CONTRACTOR SHALL PROTECT ALL EXISTING ELEMENTS INCLUDING WALKS, GRADE, UTILITIES, SITE FURNITURE, ETC. FROM DAMAGE.

ELECTRICAL ENCLOSURE NOTES:

- FINAL LOCATION TO BE APPROVED BY OWNER'S REPRESENTATIVE.
- GATE SHALL OPEN OUTWARD OF THE ENCLOSURE.
- FINAL FOOTPRINT OF FENCE SHALL BE APPROVED BY THE ELECTRICAL ENGINEER.
- CONTRACTOR SHALL PROVIDE 2 ADDITIONAL 4" PVC PIPE SLEEVES TO ALLOW FOR FUTURE EXPANSION. CAP BOTH ENDS. STUB UP THROUGH SLAB AT BOTH ENDS. LOCATION TO BE APPROVED PRIOR TO INSTALLATION.
- GATE PICKETS SHALL BE STRAIGHT AT THE TOP OF GATE.
- GATE LOCATION TO BE APPROVED PRIOR TO INSTALLATION.
- CONTRACTOR SHALL PROVIDE CHAIN AND PADLOCK AS APPROVED BY OTHER.
- PROVIDE BLOCK OUT IN SLAB AROUND POLE AND CONDUIT.

LIGHT POLE COORDINATES		
DESCRIPTION	EASTING	NORTHING
CL 001	E 3098571.053275	N 13854666.825360
CL 002	E 3098687.158038	N 13854682.471574
CL 003	E 3098764.925796	N 13854809.836180
CL 004	E 3098623.241881	N 13854946.373991
CL 005	E 3098496.053275	N 13854846.825360
CL 006	E 3098496.053273	N 13854741.825358

CONCRETE PAD COORDINATES		
DESCRIPTION	EASTING	NORTHING
CW 001	E 3098487.482559	N 13854663.607924
CW 002	E 3098485.554315	N 13854676.126962
CW 003	E 3098479.545533	N 13854675.201460



CONCRETE WALK PLAN

APPROVED
FOR BUILDING PERMIT ONLY
CITY OF HOUSTON
CODE ENFORCEMENT DIVISION

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NO. 386

- NOTES:
- ALL CROSS SLOPES ON CONCRETE WALKS SHALL NOT EXCEED 2%.
 - ALL CONCRETE WORK SHALL BE IN COMPLIANCE WITH CURRENT ADA REGULATIONS.

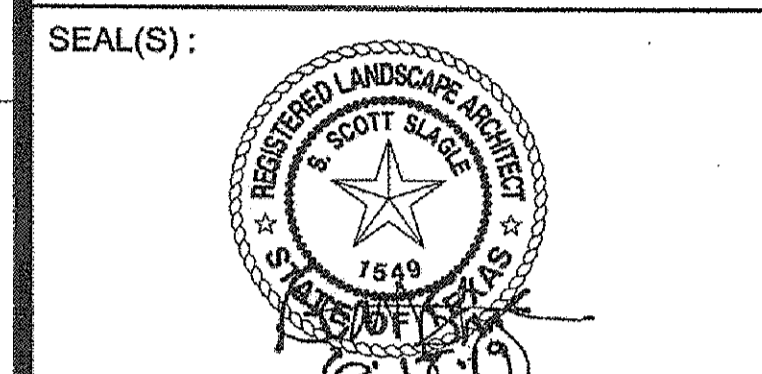
- NEW OR EXISTING PAVING
- 3/8" O.D. X 18" SMOOTH STEEL DOWEL W/ SLEEVE ONE SIDE, 18" O.C.
- 1 X 4 REDWOOD EXPANSION JOINT W/ CAULK SEALANT TOP STRIP
- #3 BARS, 18" O.C. EACH WAY
- 1" SAND LEVELING COURSE
- 4 1/2" THICK CONC. WALK, 3000 P.S.I.
- 1/4" X 1/2" DEPTH SCORED CONTROL JOINT

ISSUE LOG

NO.	DATE	DESCRIPTION
1	06/19/2015	FOR PERMIT

CONSULTANT(S):
CLARK CONDON ASSOCIATES
LANDSCAPE ARCHITECTURE
10401 Stella Link Road, Houston, Texas 77025
TEL: 713-871-1414 FAX: 713-871-0888
www.clarkcondon.com

HUNT & HUNT ENGINEERING CORP.
HOUSTON, TEXAS 77215
TELE FIRM NO. F-8448



PROJECT NAME:
JAYCEE PARK LIGHTING
1300 SEAMIST ST.
77008

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

PROGRAM MANAGER _____ SPONSORING DEPARTMENT _____

PROJECT MANAGER _____

CITY ENGINEER - BSD _____

OTHER APPROVALS:

WATER ENGINEERING _____ TRAFFIC AND TRANSPORTATION _____

WASTEWATER ENGINEERING _____ STREET, BRIDGE & ROW ENGINEERING _____

STORMWATER ENGINEERING _____ PLANNING & DEVELOPMENT _____

CITY ENGINEER - FIRE _____ DATE _____

DIRECTOR, DEPT. OF PUBLIC WORKS & ENGINEERING _____ DATE _____

DATE: 06/16/2015
W.B.S. No: F-000758-0001-4
SCALE: _____
DRAWN BY: KWL
CHECKED BY: SSS

SHEET TITLE:
CONSTRUCTION AND PLANTING DETAILS AND NOTES

SHEET NO.:
L1.01
OF SHEETS

CITY DWG. NO.:

DESIGN FILE: XXXXXXXX.dwg

CAD FILE:

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ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	LIGHT FIXTURE, SUBSCRIPT "A" DENOTES FIXTURE TYPE.
	SINGLE POLE SWITCH WITH WEATHERPROOF ENCLOSURE AND STAINLESS STEEL COVER PLATE.
	FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER, PROVIDED WITH PROPERLY RATED THERMAL ELEMENT.
	DUPLEX RECEPTACLE, WITH WEATHERPROOF ENCLOSURE, EQUAL TO TAYMAC #10150.
	JUNCTION BOX.
	DISCONNECT SWITCH.
	MOLDED CASE CIRCUIT BREAKER.
	DISCONNECT SWITCH.
	MAGNETIC MOTOR STARTER.
	COMBINATION MAGNETIC MOTOR STARTER AND DISCONNECT SWITCH.
	MOTOR.
	TRANSIENT VOLTAGE SURGE SUPPRESSOR.
	DISTRIBUTION PANEL.
	TRANSFORMER.
	QUAZITE PULL BOX.
	LIGHTING CONTACTOR.
	IRRIGATION CONTROLLER.
	CONDUIT ROUTED UNDERGROUND.
	CONDUIT ROUTED EXPOSED.
	UTILITY EASEMENT BOUNDARY.
	FENCE.
	GROUND.
(E)	EXISTING.
(N)	NEW.
(R)	RELOCATED.
(F)	FUTURE.
GFCI	GROUND FAULT CIRCUIT INTERRUPTING.
WP	WEATHERPROOF.
XFMR	TRANSFORMER.
GND	GROUND.
C	CONDUIT.
NF	NOT FUSED.
FLA	FULL LOAD AMPS.
Ø	GROUND ROD.
PB	PULL BOX.
PC	PHOTO CELL, SWIVEL MOUNT, INTERMATIC.
RGS	RIGID GALVANIZED STEEL.
RE: 1/E6.01	REFER TO DETAIL #1 ON SHEET NO. E6.01.
NOTE: ALL SYMBOLS MAY NOT BE USED.	

LIGHTING FIXTURE SCHEDULE						
TYPE	MANUFACTURER AND CATALOG NUMBER	DESCRIPTION	VOLTAGE	LAMPS	MOUNTING	REMARKS
A	MUSCO LIGHTING LIGHT-STRUCTURE GREEN	60' TALL SPORTS LIGHTING SYSTEM WITH POLE, LUMINAIRES AND CONTROLS. CONTRACTOR SHALL RETAIN MUSCO TO PROVIDE AND INSTALL POLES, LUMINAIRES AND CONTROLS.	208	3-1500W MZ	POLE	UL LISTED FOR WET LOCATIONS.
B	MUSCO LIGHTING LIGHT-STRUCTURE GREEN	70' TALL SPORTS LIGHTING SYSTEM WITH POLE, LUMINAIRES AND CONTROLS. CONTRACTOR SHALL RETAIN MUSCO TO PROVIDE AND INSTALL POLES, LUMINAIRES AND CONTROLS.	208	6-1500W MZ 1-1000W MZ	POLE	UL LISTED FOR WET LOCATIONS.
C1	MUSCO LIGHTING LIGHT-STRUCTURE GREEN	60' TALL SPORTS LIGHTING SYSTEM WITH POLE, LUMINAIRES AND CONTROLS. CONTRACTOR SHALL RETAIN MUSCO TO PROVIDE AND INSTALL POLES, LUMINAIRES AND CONTROLS.	208	3-1500W MZ 1-1000W MZ	POLE	UL LISTED FOR WET LOCATIONS.
C2	MUSCO LIGHTING LIGHT-STRUCTURE GREEN	60' TALL SPORTS LIGHTING SYSTEM WITH POLE, LUMINAIRES AND CONTROLS. CONTRACTOR SHALL RETAIN MUSCO TO PROVIDE AND INSTALL POLES, LUMINAIRES AND CONTROLS.	208	3-1500W MZ	POLE	UL LISTED FOR WET LOCATIONS.

GENERAL NOTES:

- FURNISH ALL LABOR, MATERIAL, EQUIPMENT, TOOLS, INSURANCE, SERVICES AND PERMITS NECESSARY TO CONSTRUCT AND INSTALL A COMPLETE OPERATING ELECTRICAL SYSTEM.
- ALL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE 2014 (NEC) REQUIREMENTS AND ALL APPLICABLE CODES AND ORDINANCES AS REQUIRED BY THE CITY OF HOUSTON.
- CONTRACTOR SHALL OBTAIN ALL PERMITS, EXCLUDING BUILDING PERMIT AND SHALL PAY FOR ALL ASSOCIATED EXPENSES, PRINTING AND INSPECTIONS.
- CONTRACTOR SHALL VERIFY EXISTING CONDITIONS, AND SHALL COORDINATE AND SCHEDULE HIS/HER WORK WITH THE ARCHITECT AND OTHER TRADES.
- UNLESS OTHERWISE NOTED, ALL MATERIAL SHALL BE NEW AND UL LISTED. MATERIAL SHALL BEAR THE APPROVAL LABEL OF UL, WHEN SUCH IS AVAILABLE.
- UNLESS OTHERWISE SHOWN, ALL BRANCH CIRCUIT WIRES SHALL BE THHN/THWN COPPER. MINIMUM WIRE SIZE SHALL BE NO. 12 AWG.
- PROVIDE GREEN EQUIPMENT GROUNDING CONDUCTOR WITH ALL POWER, LIGHTING AND RECEPTACLE CIRCUITS. ALL ELECTRICAL CONDUITS, RACEWAYS AND CABLES SHALL HAVE A GREEN GROUND CONDUCTOR. MINIMUM SIZE SHALL BE NO. 12 AWG.
- EXACT LOCATION AND NUMBER OF LUMINAIRES, WIRING DEVICES AND OUTLET BOXES TO ELECTRICAL EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECT, STRUCTURAL ENGINEER AND EQUIPMENT VENDORS.
- CONTRACTOR SHALL PROVIDE ADDITIONAL PULL BOXES AS REQUIRED AT SITE. PULL BOXES SHALL BE SIZED IN ACCORDANCE WITH NEC REQUIREMENTS.
- ALL OUTDOOR RECEPTACLES SHALL BE GFCI WEATHERPROOF TYPE WITH WEATHERPROOF WHILE IN USE COVER.
- ALL WIRING DEVICES SHALL BE INDUSTRIAL, HEAVY DUTY SPECIFICATION GRADE.
- IDENTIFY EACH PANELBOARD, TRANSFORMER AND SAFETY SWITCH WITH AN ENGRAVED LAMINATED NAMEPLATE.
- ALL PANELBOARDS SHALL HAVE COPPER PHASE AND GROUND BUS AND SHALL HAVE DOOR-IN-DOOR CONSTRUCTION.
- OUTLET BOXES: SHALL BE GALVANIZED STEEL SUITABLE FOR THE LOCATION.
- CONTROL CIRCUIT WIRING SIZE SHALL BE A MINIMUM OF NO. 14 AWG.
- ELECTRICAL EQUIPMENT SUCH AS CONTROL PANELS AND SECURITY SYSTEMS MAY BE FURNISHED BY OTHER DIVISIONS OR TRADE SUBCONTRACTORS FOR INSTALLATION BY DIVISION 16 CONTRACTOR. CONTRACTOR SHALL COORDINATE HIS/HER WORK WITH ALL TRADES TO PROVIDE A COMPLETE OPERATING SYSTEM.
- CONTRACTORS SHALL COORDINATE CONDUIT'S ROUTING AND METHOD OF SUPPORT WITH THE ARCHITECT. ALL CONDUIT RUNS SHALL BE INSTALLED IN A PROFESSIONAL MANNER.
- COMPLETE TYPED "AS BUILT" PANEL'S DIRECTORIES SHALL BE INSERTED IN PANELBOARD'S POCKET UPON COMPLETION OF WORK.
- ALL EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL.
- ALL UNDERGROUND CONDUITS SHALL BE PVC. FOR STUB-UPS, USE PVC COATED RIGID GALVANIZED STEEL (RGC) 90 DEGREE ELBOWS WITH RGC TO PVC THREADED FEMALE ADAPTER. ALL UNDERGROUND CIRCUITS 600V OR BELOW SHALL BE BURIED IN DUCT BANK AT A DEPTH IN ACCORDANCE WITH ARTICLE 300.5 OF NEC OR AS SHOWN ON DRAWINGS, WHICH EVER IS GREATER.
- IN DRIP ZONES OF ALL EXISTING TREES, ALL TRENCHES SHALL BE AIR SPADE TRENCHED OR HAND DUG. NO ROOTS OVER 1/2" SHALL BE CUT OR REMOVED.
- TAMPER PROOF HARDWARE SHALL BE PROVIDED FOR ALL EXPOSED SCREWS AND BOLTS ON LIGHT FIXTURES AND EQUIPMENT ACCESSIBLE TO THE PUBLIC.

APPROVED ELECTRICAL PLAN
 PLANS AND SPECIFICATIONS TO BE IN ACCORDANCE WITH CURRENT NATIONAL ELECT. CODE & CITY BUILDING CODE. THIS PLAN SHALL BE KEPT ON JOB FOR INSPECTORS. SEPARATE PERMIT FOR ELECTRICAL REQUIRED.
NO. 399

ISSUE LOG		
NO.	DATE	DESCRIPTION
1	06/19/2015	FOR PERMIT
CONSULTANT(S):		
CLARK CONDON ASSOCIATES LANDSCAPE ARCHITECTURE 10401 Sheila Link Road Houston, Texas 77025 TEL 713.871.1414 FAX 713.871.0888 www.clarkcondon.com		
HUNT & HUNT ENGINEERING CORP. HOUSTON, TEXAS 77215 TBPE FIRM NO. F-3446		
SEAL(S):		
TBPE FIRM NO. F-3446		
PROJECT NAME:		
JAYCEE PARK LIGHTING 1300 SEAMIST ST. 77008		
CITY OF HOUSTON GENERAL SERVICES DEPARTMENT		
REVIEWED:		
PROGRAM MANAGER	SPONSORING DEPARTMENT	
PROJECT MANAGER		
CITY ENGINEER - BSD		
OTHER APPROVALS:		
WATER ENGINEERING	TRAFFIC AND TRANSPORTATION	
WASTEWATER ENGINEERING	STREET, BRIDGE & ROW ENGINEERING	
STORMWATER ENGINEERING	PLANNING & DEVELOPMENT	
CITY ENGINEER - PWE	DATE	
DIRECTOR, DEPT. OF PUBLIC WORKS & ENGINEERING	DATE	
DATE:	03/31/2015	
W.B.S. No.:	F-000758-0001-4	
SCALE:	NONE	
DRAWN BY:	AH	
CHECKED BY:	RT	
SHEET TITLE:		
ELECTRICAL FIXTURE SCHEDULE, LEGEND & NOTES		
SHEET NO.:		
E0.01 OF SHEETS		
CITY DWG. NO.:		

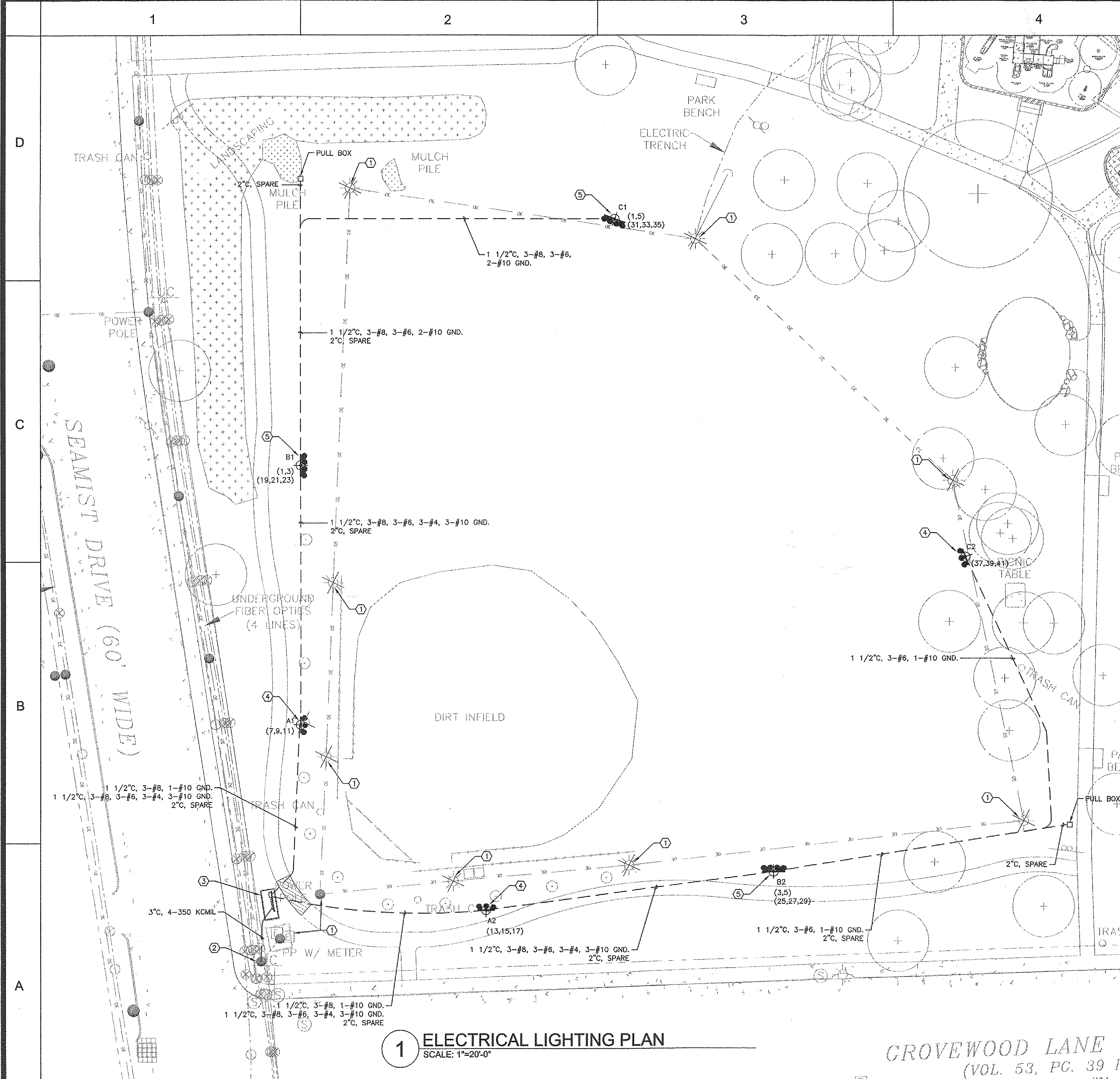
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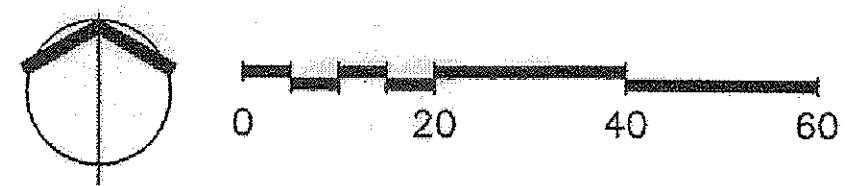
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- KEYED NOTES:**
- ① EXISTING METER POLE, SERVICE EQUIPMENT AND BASEBALL FIELD LIGHTS TO BE REMOVED, SALVAGE ELECTRICAL EQUIPMENT AND RETURN TO OWNER. REFER TO SHEET NO. D1.00 FOR ADDITIONAL INFORMATION.
 - ② PROVIDE WEATHERHEAD, RISER AND STANDOFF BRACKETS FOR NEW ELECTRICAL SERVICE. INSTALL CONDUIT AND WIRING IN ACCORDANCE WITH CENTERPOINT ENERGY (CPE) STANDARDS. COORDINATE ALL WORK WITH CPE.
 - ③ PROPOSED ELECTRICAL SERVICE ENCLOSURE. PROVIDE GROUND RODS WITH #4/0 GROUND LOOP AND #2/0 FENCE GROUND. CONTRACTOR SHALL GROUND ALL ELECTRICAL EQUIPMENT AND RACK IN ACCORDANCE WITH NEC.
 - ④ PROPOSED MUSCO BASEBALL FIELD SPORTS LIGHTING. CONTRACTOR SHALL RETAIN MUSCO TO PROVIDE AND INSTALL LIGHT FIXTURE POLES, LUMINAIRES AND CONTROLS. CONTRACTOR SHALL COORDINATE ALL WORK WITH MUSCO AND PROVIDE ALL CONDUIT AND WIRING FOR A COMPLETE AND OPERATING SYSTEM.
 - ⑤ PROPOSED MUSCO BASEBALL FIELD SPORTS LIGHTING WITH SECURITY LIGHT.

1 ELECTRICAL LIGHTING PLAN
SCALE: 1"=20'-0"

GROVEWOOD LANE (VOL. 53, PG. 39 H WM)



ISSUE LOG		
NO.	DATE	DESCRIPTION
1	06/19/2015	FOR PERMIT

CONSULTANT(S):

CLARK CONDON ASSOCIATES
LANDSCAPE ARCHITECTURE
10401 Sheila Link Road Houston, Texas 77025
TEL. 713.871.1414 FAX 713.871.0888
www.clarkcondon.com

HUNT & HUNT ENGINEERING CORP.
HOUSTON, TEXAS 77215
TBPE FIRM NO. F-3446

SEAL(S):

6/17/2015

PROJECT NAME:
JAYCEE PARK LIGHTING
1300 SEAMIST ST.
77008

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

REVIEWED:

PROGRAM MANAGER	SPONSORING DEPARTMENT
PROJECT MANAGER	
CITY ENGINEER - BSD	

OTHER APPROVALS:

WATER ENGINEERING	TRAFFIC AND TRANSPORTATION
WASTEWATER ENGINEERING	STREET, BRIDGE & ROW ENGINEERING
STORMWATER ENGINEERING	PLANNING & DEVELOPMENT
CITY ENGINEER - PWE	DATE
DIRECTOR, DEPT. OF PUBLIC WORKS & ENGINEERING	DATE

DATE: 03/31/2015
W.B.S. No: F-000758-0001-4
SCALE: 1" = 20'-0"
DRAWN BY: AH
CHECKED BY: RT

SHEET TITLE:
ELECTRICAL LIGHTING PLAN

SHEET NO.:
E1.01
OF SHEETS

CITY DWG. NO.:

SHORT CIRCUIT CALCULATIONS (Point to Point Method)

VOLTAGE "E _{LL} " (LINE TO LINE)	208V
3-PHASE CPE TRANSFORMER LET-THRU SHORT CIRCUIT CURRENT ("I" ULTIMATE)	198,300A
FAULT @ PANEL "LA" FROM CPE UTILITY TRANSFORMER:	
FEEDER LENGTH "L" (UTILITY TRANSFORMER TO PANEL)	70'
"C" VALUE FOR CONDUCTORS (4-#350 KCMIL)	16,200
"F" FACTOR (1.73 X L X I) / (C X E _{LL})	7.127
"M" MULTIPLIER (1 / 1 + F)	0.1231
I _{SCA} TOTAL SHORT CIRCUIT CURRENT @ FAULT (I X M)	24,401A
PANEL "LA" AIC RATING	42,000A

PANEL "LA"

BUS AMPS- 400A MLO- _____
 MAIN BRKR. AMPS- 300A WIRE SIZE- #350 KCMIL
 VOLTS- 120/208 AIC- 42,000
 PHASE- 3 WIRE- 4 SN- _____

NOTES:
 1. BREAKERS 1P, 20A UNLESS MARKED OTHERWISE.
 2. ADJUST CIRCUITS TO BALANCE PANEL.
 3. SURFACE MOUNT, NEMA 3R.

CKT. DESCRIPTION	WIRE	COND.	LOAD	BKR.	A			B			C			BKR.	LOAD	COND.	WIRE	CKT. DESCRIPTION
					1	2	3	4	5	6	7	8	9					
SECURITY LIGHTS- B1, B2 & C1	8	1 1/2"	1950	25	1	2	3	4	5	6	7	8	9	20	1555	3/4"	12	MUSCO LIGHTING CONTROLS
BASEBALL FIELD LIGHTS- A1	8	1 1/2"	1950	30	1	2	3	4	5	6	7	8	9	20				RECEPTACLE
			2580		10	11	12	13	14	15	SPARE							
			2580		16	17	18	19	20	21	SPARE							
			2580		22	23	24	25	26	27	SPARE							
BASEBALL FIELD LIGHTS- A2	8	1 1/2"	1950	30	1	2	3	4	5	6	7	8	9	20				SPARE
			2580		10	11	12	13	14	15	SPARE							
			2580		16	17	18	19	20	21	SPARE							
			2580		22	23	24	25	26	27	SPARE							
BASEBALL FIELD LIGHTS- B1	4	1 1/2"	1950	50	1	2	3	4	5	6	7	8	9	20				SPARE
			5160		10	11	12	13	14	15	SPARE							
			5160		16	17	18	19	20	21	SPARE							
			5160		22	23	24	25	26	27	SPARE							
BASEBALL FIELD LIGHTS- B2	4	1 1/2"	1950	50	1	2	3	4	5	6	7	8	9	20				FUTURE TRAIL LIGHTS
			5160		10	11	12	13	14	15	SPARE							
			5160		16	17	18	19	20	21	SPARE							
			5160		22	23	24	25	26	27	SPARE							
BASEBALL FIELD LIGHTS- C1	6	1 1/2"	1950	30	1	2	3	4	5	6	7	8	9	20				FUTURE TRAIL LIGHTS
			1950		10	11	12	13	14	15	SPARE							
			1950		16	17	18	19	20	21	SPARE							
			1950		22	23	24	25	26	27	SPARE							
BASEBALL FIELD LIGHTS- C2	6	1 1/2"	1950	30	1	2	3	4	5	6	7	8	9	30	3/4"	10		TVSS
			1950		10	11	12	13	14	15	SPARE							
			1950		16	17	18	19	20	21	SPARE							
			1950		22	23	24	25	26	27	SPARE							

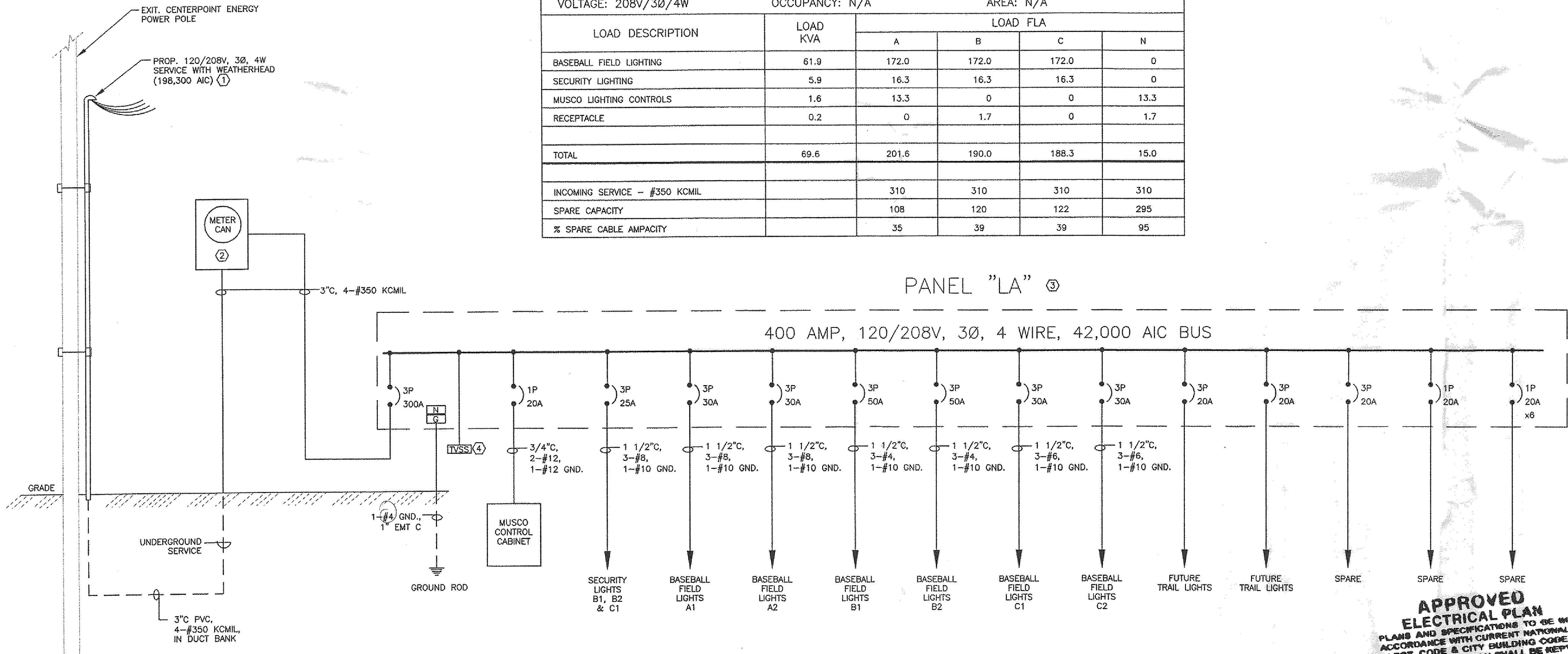
PHASE A: 24,145 VA PHASE B: 22,790 VA PHASE C: 22,590 VA TOTAL = 69,525 VA

- KEYED NOTES:**
- PROVIDE WEATHERHEAD, RISER AND STANDOFF BRACKETS FOR NEW ELECTRICAL SERVICE. INSTALL CONDUIT AND WIRING IN ACCORDANCE WITH CENTERPOINT ENERGY (CPE) STANDARDS AND COORDINATE ALL WORK WITH CPE.
 - PROVIDE AND INSTALL A 320A COMMERCIAL METER CAN, 120/240V, 3-PHASE, 4-WIRE. COORDINATE ALL WORK WITH CPE.
 - PROVIDE A PERMANENTLY AFFIXED LABEL WITH 24-401A AVAILABLE FAULT CURRENT AND DATED APRIL 29, 2015 IN ACCORDANCE WITH NEC REQUIREMENTS. THE LABEL SHALL BE 2"x3" IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND.
 - PROPOSED 120/208V, 3P, 100KA, EXTERNALLY MOUNTED TVSS TO BE PROVIDED BY MUSCO WITH CONTROLS EQUIPMENT.

ELECTRICAL LOAD ANALYSIS

VOLTAGE: 208V/3Ø/4W OCCUPANCY: N/A AREA: N/A

LOAD DESCRIPTION	LOAD KVA	LOAD FLA			
		A	B	C	N
BASEBALL FIELD LIGHTING	61.9	172.0	172.0	172.0	0
SECURITY LIGHTING	5.9	16.3	16.3	16.3	0
MUSCO LIGHTING CONTROLS	1.6	13.3	0	0	13.3
RECEPTACLE	0.2	0	1.7	0	1.7
TOTAL	69.6	201.6	190.0	188.3	15.0
INCOMING SERVICE - #350 KCMIL		310	310	310	310
SPARE CAPACITY		108	120	122	295
% SPARE CABLE AMPACITY		35	39	39	95



1 ELECTRICAL ONE-LINE DIAGRAM
SCALE: NONE

APPROVED ELECTRICAL PLAN
 PLANS AND SPECIFICATIONS TO BE IN ACCORDANCE WITH CURRENT NATIONAL ELECT. CODE & CITY BUILDING CODE. THIS PLAN SHALL BE KEPT ON JOB FOR INSPECTORS. SEPARATE PERMIT FOR ELECTRICAL REQUIRED.
NO. 399

ISSUE LOG

NO.	DATE	DESCRIPTION
1	06/19/2015	FOR PERMIT

CONSULTANT(S):

CLARK CONDON ASSOCIATES
 LANDSCAPE ARCHITECTURE
 10401 Stella Link Road Houston, Texas 77025
 TEL 713.871.1414 FAX 713.871.0888
 www.clarkcondon.com

HUNT & HUNT ENGINEERING CORP.
 HOUSTON, TEXAS 77215
 TBPE FIRM NO. F-3446

SEAL(S):

PROJECT NAME:
JAYCEE PARK LIGHTING
 1300 SEAMIST ST.
 77008

CITY OF HOUSTON
 GENERAL SERVICES DEPARTMENT

REVIEWED:

PROGRAM MANAGER _____ SPONSORING DEPARTMENT _____
 PROJECT MANAGER _____
 CITY ENGINEER - BSD _____

OTHER APPROVALS:

WATER ENGINEERING _____ TRAFFIC AND TRANSPORTATION _____
 WASTEWATER ENGINEERING _____ STREET, BRIDGE & ROW ENGINEERING _____
 STORMWATER ENGINEERING _____ PLANNING & DEVELOPMENT _____

CITY ENGINEER - PWC _____ DATE _____
 DIRECTOR, DEPT. OF PUBLIC WORKS & ENGINEERING _____ DATE _____

DATE: 03/31/2015
 W.B.S. No.: F-000758-0001-4
 SCALE: NONE
 DRAWN BY: AH
 CHECKED BY: RT

SHEET TITLE:
ELECTRICAL ONE-LINE DIAGRAM

SHEET NO.:
E6.01
 OF SHEETS

CITY DWG. NO.:

1

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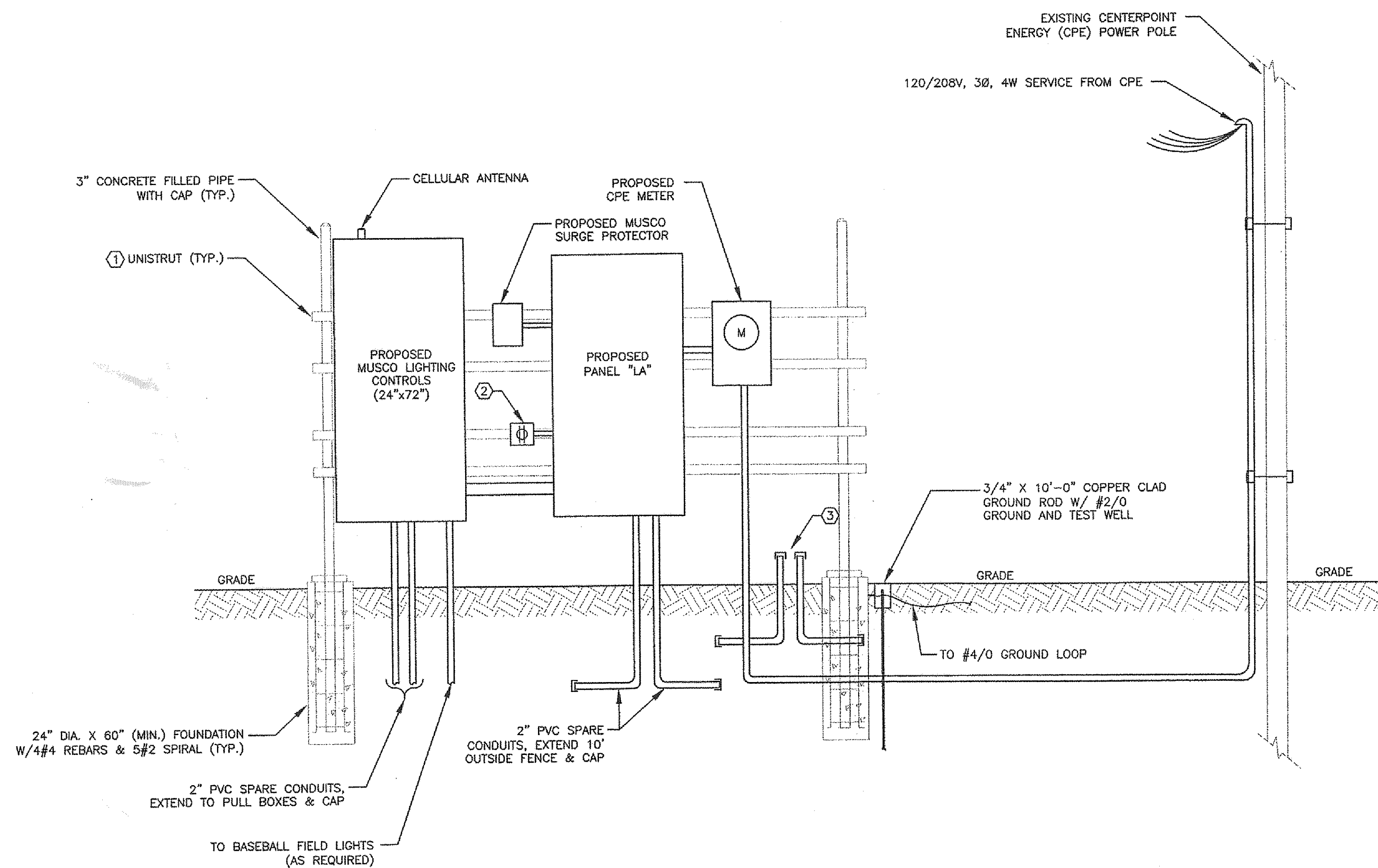
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KEYED NOTES:

- ① SECURE UNISTRUT TO POST WITH U-BOLTS. BENT ALL THREADS ARE NOT ALLOWED.
- ② PROVIDE 20A, INDUSTRIAL GRADE GFCI RECEPTACLE WITH WEATHERPROOF WHILE IN USE COVER.
- ③ PROVIDE 2-2" PVC SPARE CONDUITS FOR FUTURE IRRIGATION CONTROLLER. EXTEND CONDUITS 10' OUTSIDE FENCE AND CAP. COORDINATE EXACT LOCATIONS WITH LANDSCAPE ARCHITECT.



1 ELECTRIC SERVICE RACK DETAIL
SCALE: N.T.S.

APPROVED ELECTRICAL PLAN
PLANS AND SPECIFICATIONS TO BE IN ACCORDANCE WITH CURRENT NATIONAL ELECT. CODE & CITY BUILDING CODE. THIS PLAN SHALL BE KEPT ON JOB FOR INSPECTORS. SEPARATE PERMIT FOR ELECTRICAL REQUIRED.
NO. 399

ISSUE LOG

NO.	DATE	DESCRIPTION
1	06/19/2015	FOR PERMIT

CONSULTANT(S):
CLARK CONDON ASSOCIATES
 LANDSCAPE ARCHITECTURE
 10401 Steblo Link Road Houston, Texas 77025
 TEL: 713-871-1414 FAX: 713-871-0885
 www.clarkcondon.com
HUNT & HUNT ENGINEERING CORP.
 HOUSTON, TEXAS 77215
 TBPE FIRM NO. F-3448

SEAL(S):

 TBPE FIRM NO. F-3448

PROJECT NAME:
JAYCEE PARK LIGHTING
 1300 SEAMIST ST.
 77008

CITY OF HOUSTON
 GENERAL SERVICES DEPARTMENT

REVIEWED:
 PROGRAM MANAGER _____ SPONSORING DEPARTMENT _____
 PROJECT MANAGER _____
 CITY ENGINEER - BSD _____

OTHER APPROVALS:
 WATER ENGINEERING _____ TRAFFIC AND TRANSPORTATION _____
 WASTEWATER ENGINEERING _____ STREET, BRIDGE & ROW ENGINEERING _____
 STORMWATER ENGINEERING _____ PLANNING & DEVELOPMENT _____
 CITY ENGINEER - PWE _____ DATE _____
 DIRECTOR, DEPT. OF PUBLIC WORKS & ENGINEERING _____ DATE _____

DATE: 03/31/2015
 W.B.S. No.: F-000758-0001-4
 SCALE: NONE
 DRAWN BY: AH
 CHECKED BY: RT

SHEET TITLE:
ELECTRICAL SERVICE DETAILS

SHEET NO.:
E6.02
 OF SHEETS

CITY DWG. NO.:

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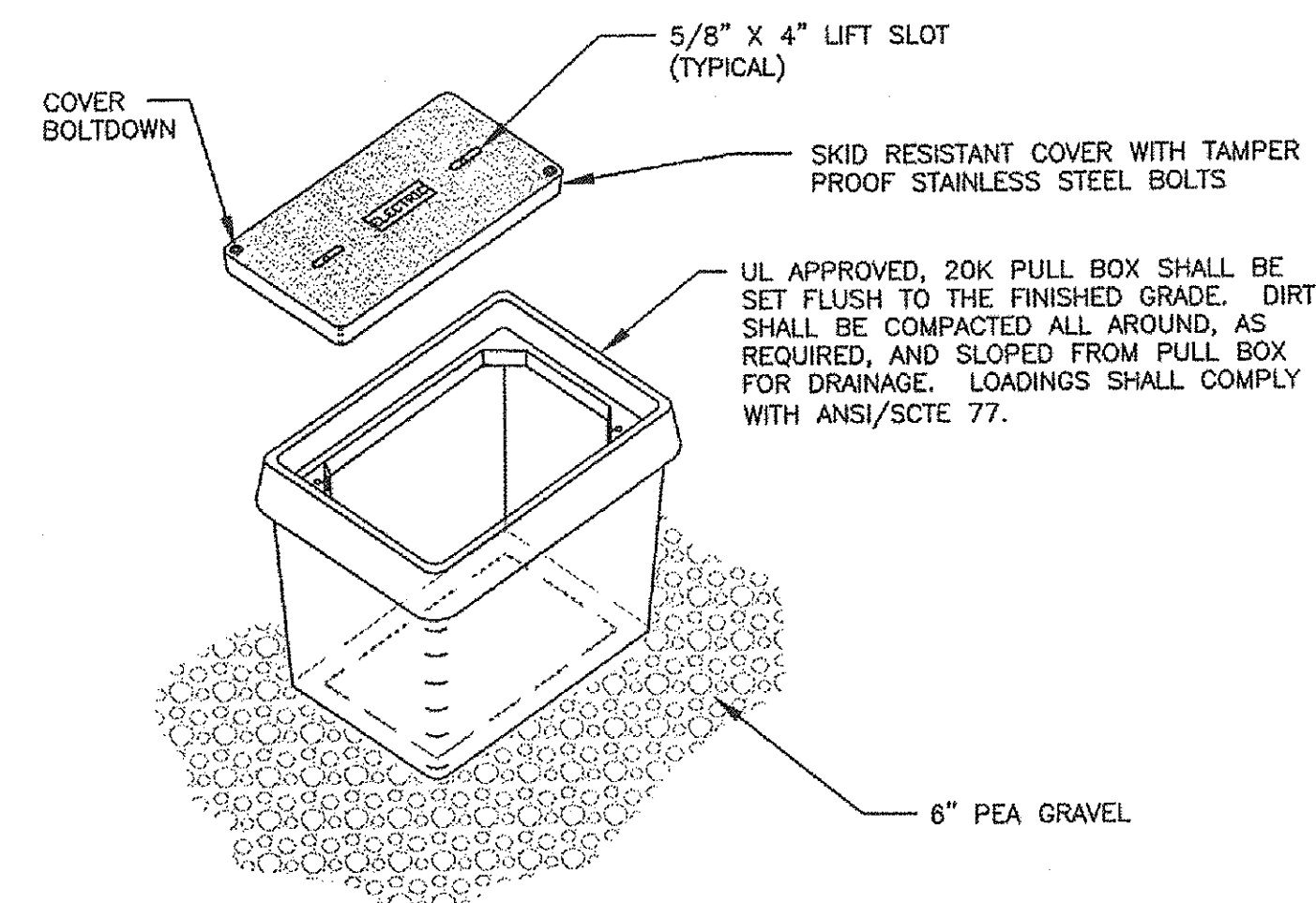
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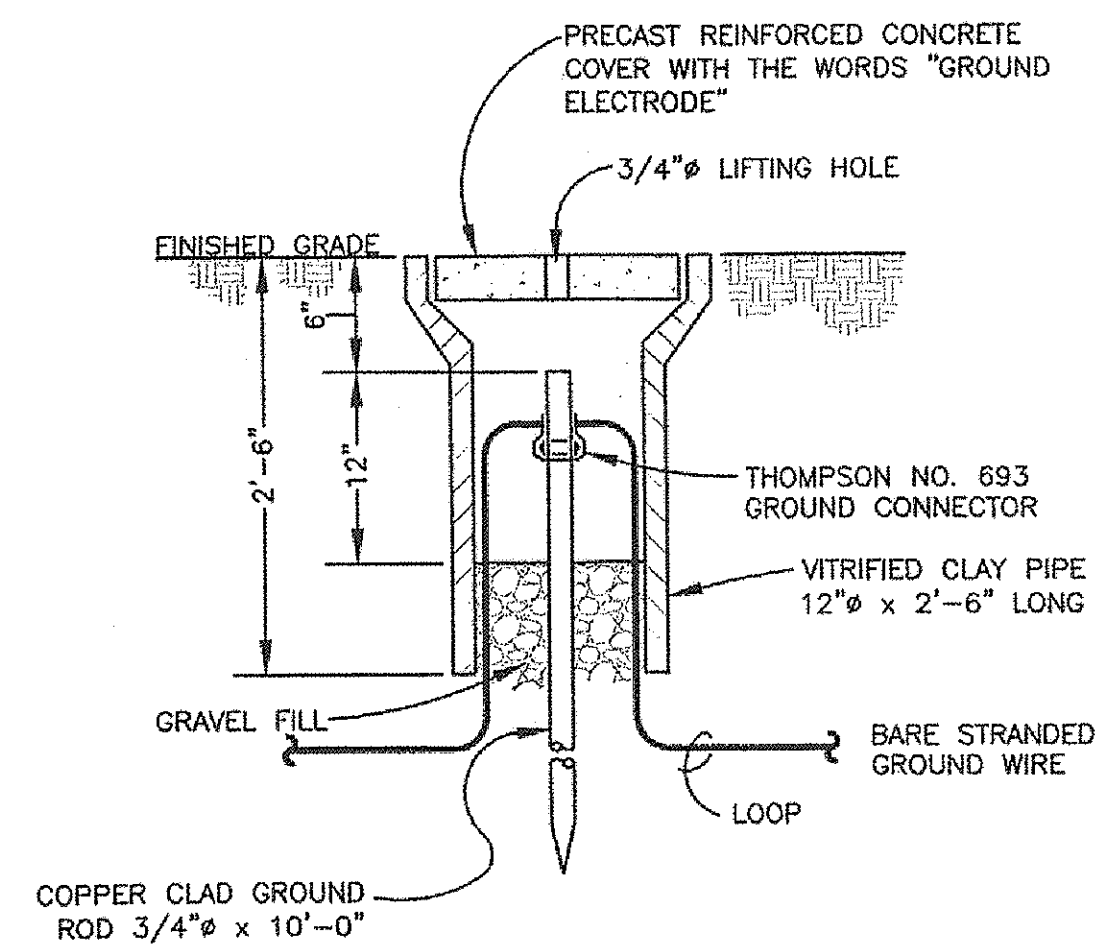
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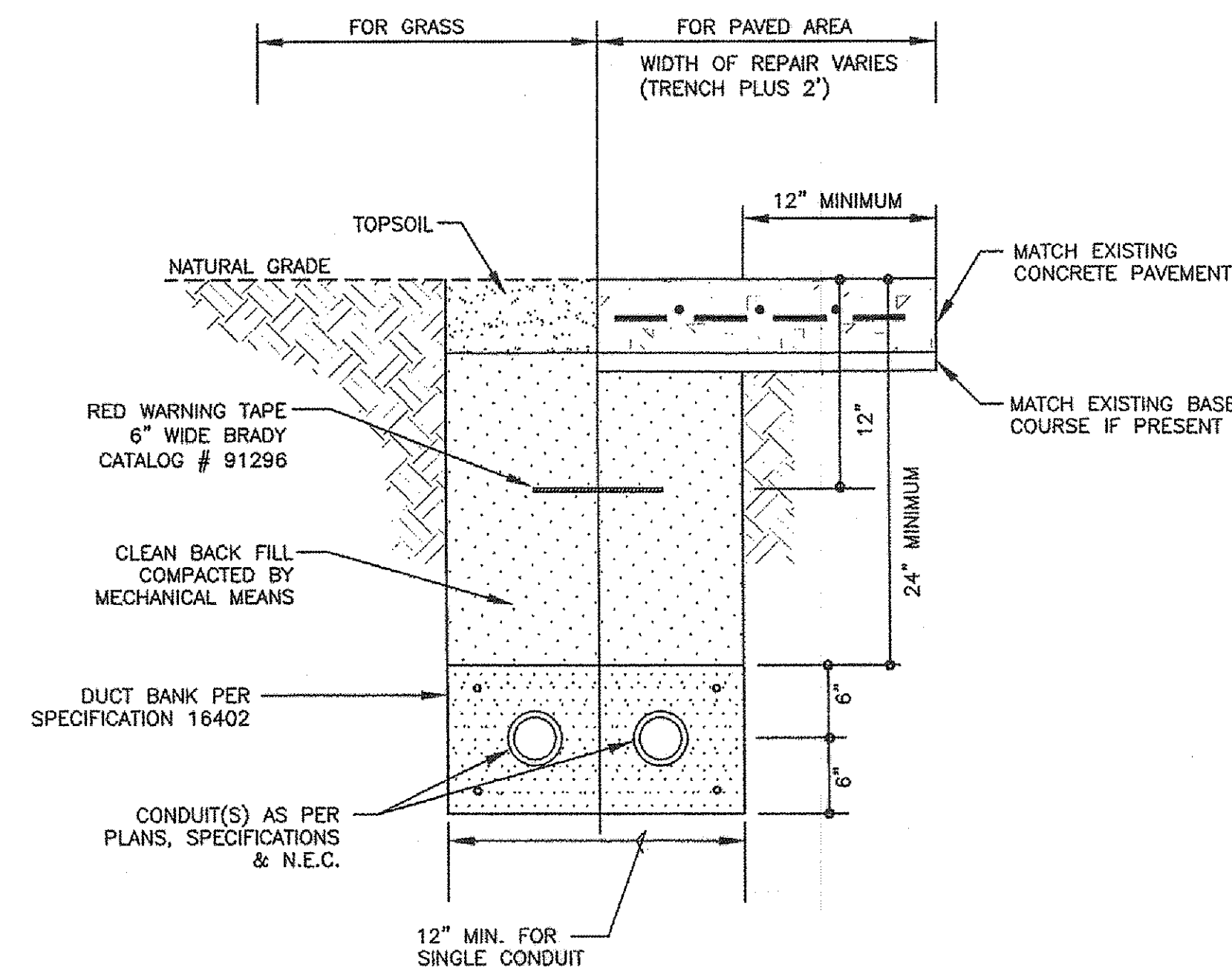
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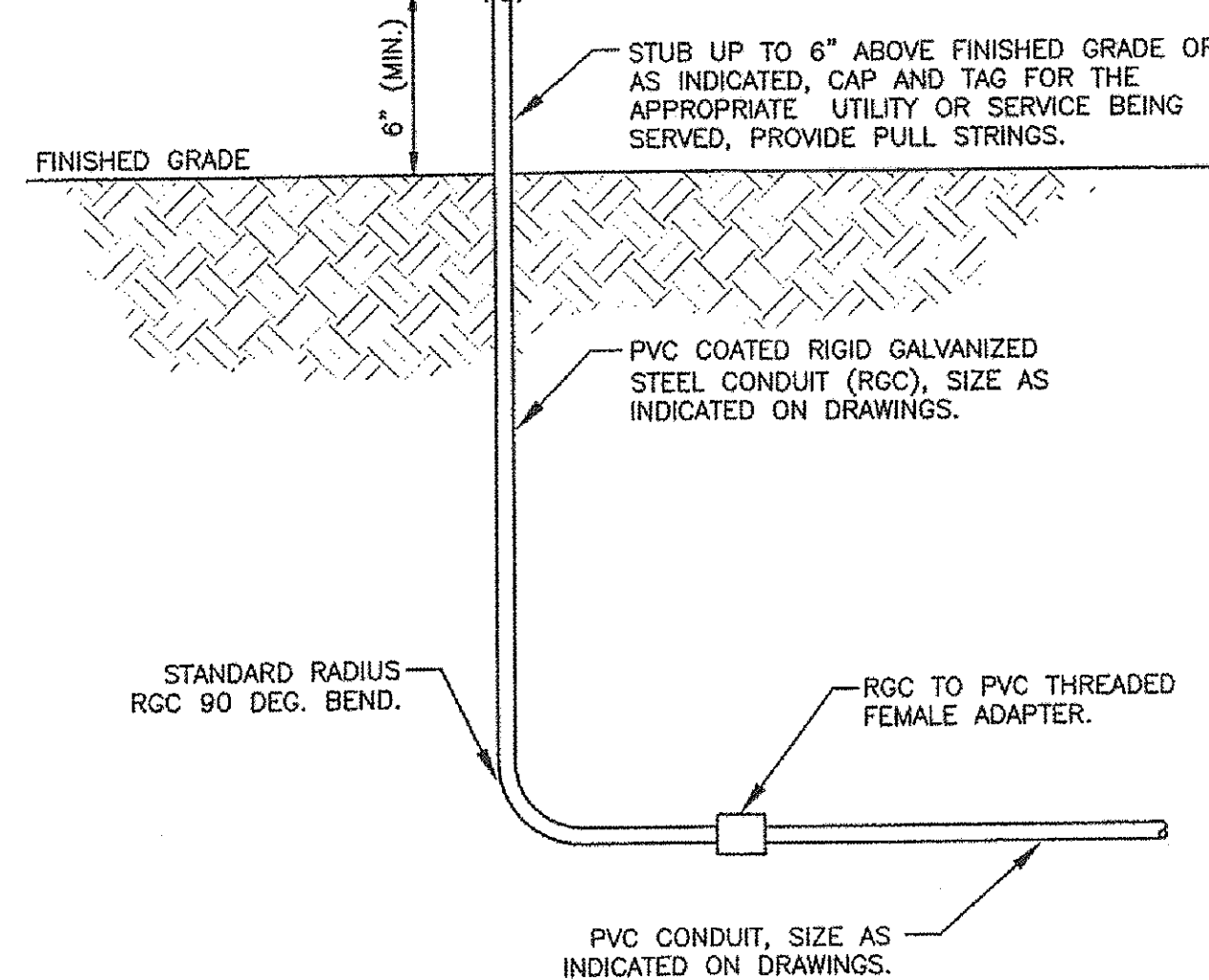
1 TYPICAL QUAZITE PULL BOX DETAIL
SCALE: N.T.S.



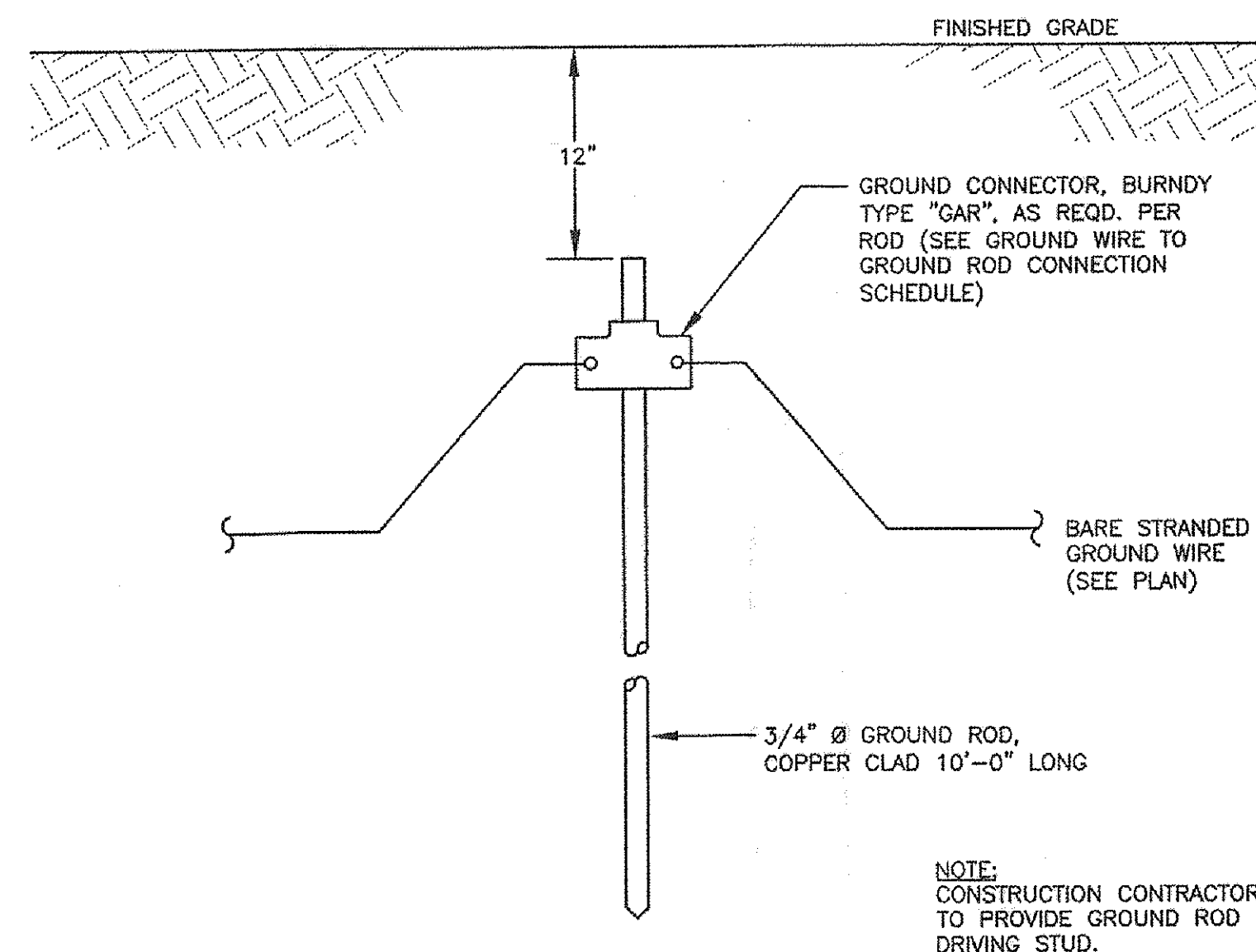
2 GROUND ROD & TEST WELL DETAIL
SCALE: N.T.S.



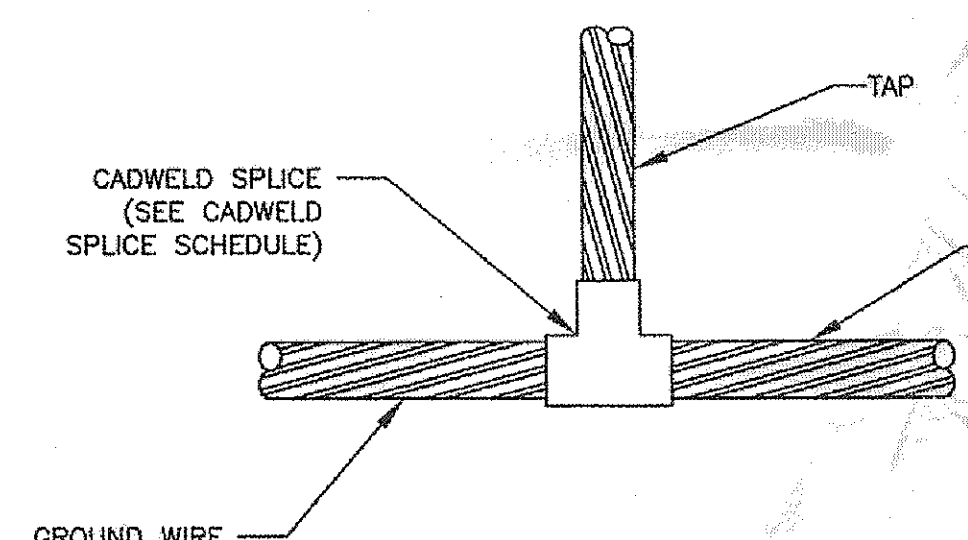
3 TYPICAL TRENCH SECTION DETAIL
SCALE: N.T.S.



4 UNDERGROUND CONDUIT STUB-UP DETAIL
SCALE: N.T.S.



5 DRIVEN GROUND ROD DETAIL
SCALE: N.T.S.



6 CADWELD SPLICE - CABLE TO CABLE DETAIL
SCALE: N.T.S.

APPROVED ELECTRICAL PLAN
PLANS AND SPECIFICATIONS TO BE IN ACCORDANCE WITH CURRENT NATIONAL ELECT. CODE & CITY BUILDING CODE. THIS PLAN SHALL BE KEPT ON JOB FOR INSPECTORS. SEPARATE PERMIT FOR ELECTRICAL REQUIRED.
NO. 399

CADWELD SPLICE SCHEDULE			
WIRE SIZE	CADWELD RUN	CADWELD TAP	CADWELD MOLD NO. / CART. SIZE
#2/0	#4	TAC-2GIL	45
#2/0	#2	TAC-2GIV	45
#2/0	#2/0	TAC-2G2G	90
#4/0	#4	TAC-2OIL	90
#4/0	#2	TAC-2OIV	90
#4/0	#2/0	TAC-2O2G	90
#4/0	#4/0	TAC-2O2G	150

GROUND WIRE TO GROUND ROD CONNECTION SCHEDULE	
WIRE RANGE	CATALOG NO.
#4 TO #2/0	BURNDY NO. GAR6426
#2/0 TO 250 MCM	BURNDY NO. GAR6429

SERVIT POST SCHEDULE			
WIRE RANGE	SERVIT POST CAT. #	STUD SIZE	
#8 TO #1	BURNDY NO. KC23	3/8" - 16	
#2 TO #2/0	BURNDY NO. KC25	1/2" - 13	
#4/0	BURNDY NO. KC28	5/8" - 11	

SERVIT CONNECTOR SCHEDULE	
WIRE SIZE	CATALOG NO.
#4	BURNDY NO. KS22
#2	BURNDY NO. KS23
#2/0	BURNDY NO. KS26

7 GROUNDING SPLICE AND CONNECTOR SCHEDULE
SCALE: N.T.S.

ISSUE LOG		
NO.	DATE	DESCRIPTION
1	06/19/2015	FOR PERMIT
CONSULTANT(S):		
CLARK CONDON ASSOCIATES LANDSCAPE ARCHITECTURE 10401 Stella Link Road Houston, Texas 77025 TEL. 713.871.1414 FAX 713.871.0888 www.clarkcondon.com		
HUNT & HUNT ENGINEERING CORP. HOUSTON, TEXAS 77215 TBPE FIRM NO. F-3446		
SEAL(S):		
TBPE FIRM NO. F-3446		
PROJECT NAME:		
JAYCEE PARK LIGHTING 1300 SEAMIST ST. 77008		
CITY OF HOUSTON GENERAL SERVICES DEPARTMENT		
REVIEWED:		
PROGRAM MANAGER	SPONSORING DEPARTMENT	
PROJECT MANAGER		
CITY ENGINEER - BSD		
OTHER APPROVALS:		
WATER ENGINEERING	TRAFFIC AND TRANSPORTATION	
WASTEWATER ENGINEERING	STREET, BRIDGE & ROW ENGINEERING	
STORMWATER ENGINEERING	PLANNING & DEVELOPMENT	
CITY ENGINEER - PRE	DATE	
DIRECTOR, DEPT. OF PUBLIC WORKS & ENGINEERING	DATE	
DATE:	04/29/2015	
W.B.S. No.:	F-000758-0001-4	
SCALE:	NONE	
DRAWN BY:	AH	
CHECKED BY:	RT	
SHEET TITLE:		
ELECTRICAL DETAILS		
SHEET NO.:		
E6.03 OF SHEETS		
CITY DWG. NO.:		

06/17/2015 5:43:53 PM

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5

D

C

B

A

ISSUE LOG

NO.	DATE	DESCRIPTION
1	06/19/2015	FOR PERMIT

CONSULTANT(S):



CLARK CONDON ASSOCIATES
LANDSCAPE ARCHITECTURE
10401 Sheila Link Road Houston, Texas 77025
TEL 713.871.1414 FAX 713.871.0888
www.clarkcondon.com

SEAL(S):

PROJECT NAME:
JAYCEE PARK LIGHTING
1300 SEAMIST ST.
77008



CITY OF HOUSTON
GENERAL SERVICES
DEPARTMENT

REVIEWED:

PROGRAM MANAGER _____ SPONSORING DEPARTMENT _____
PROJECT MANAGER _____
CITY ENGINEER - BSD _____

OTHER APPROVALS:

WATER ENGINEERING _____ TRAFFIC AND TRANSPORTATION _____
WASTEWATER ENGINEERING _____ STREET, BRIDGE & ROW ENGINEERING _____
STORMWATER ENGINEERING _____ PLANNING & DEVELOPMENT _____

CITY ENGINEER - PWE _____ DATE _____
DIRECTOR, DEPT. OF PUBLIC WORKS & ENGINEERING _____ DATE _____

DATE: 06/16/2015
W.B.S. No.: F-000758-0001-4
SCALE: _____
DRAWN BY: KWL
CHECKED BY: SSS

SHEET TITLE:
**STRUCTURAL
DETAILS**

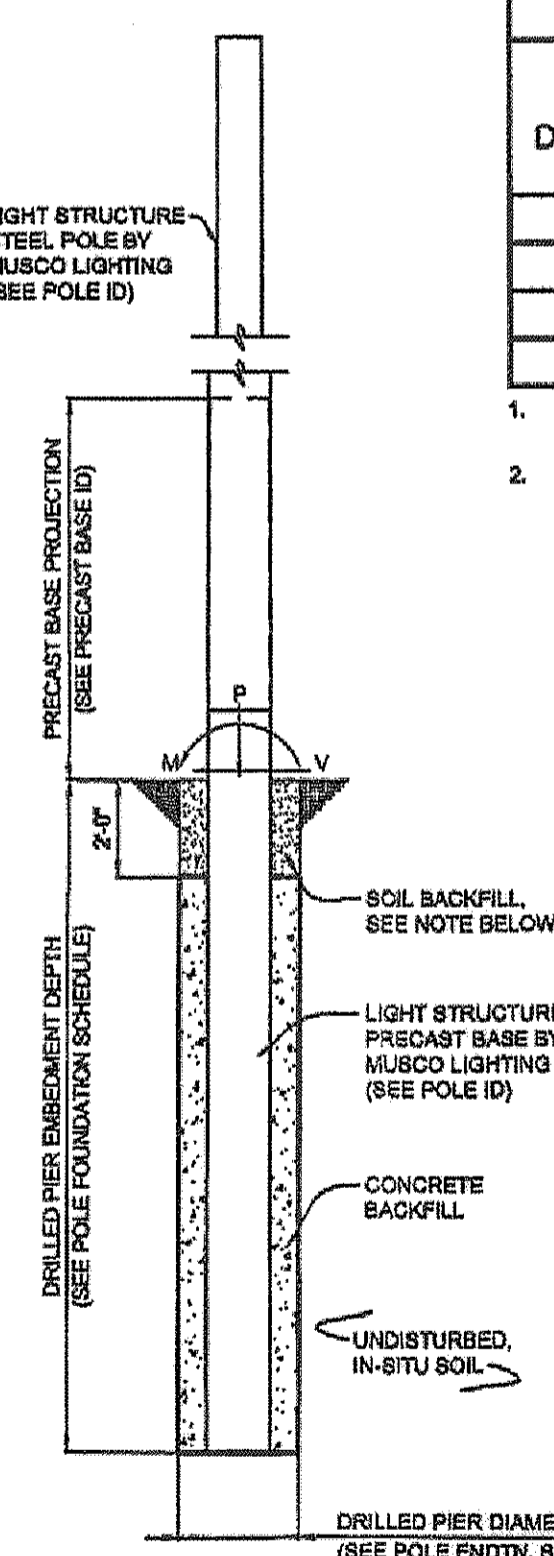
SHEET NO.:
\$1.00
OF SHEETS

CITY DWG. NO.:

APPROVED
FOR BUILDING PERMIT ONLY
CITY OF HOUSTON
CODE ENFORCEMENT DIVISION

The owner is responsible for compliance with the Building Code. Such approved plans and specifications shall not be changed, modified or altered without authorization from the building official, and all work shall be done in accordance with the approved plans

NO. 386



POLE FOUNDATION ELEV.
SCALE: NOT TO SCALE

SOIL BACKFILL NOTE:
THE TOP TWO FEET OF ANNULUS SHALL BE BACKFILLED WITH SOIL, WITH A CLASSIFICATION OF CLASS B (TABLE 1808.2) OR BETTER. COMPACTION, 95% FOR COHESIVE SOIL AND 95% FOR A COHESIONLESS SOIL BASED UPON STANDARD PROCTOR TESTING (ASTM D598).

POLE DESIGNATION	FORCES (1.)			DRILLED PIER		
	MOMENT (M) FT-LBS	SHEAR (V) LBS	VERTICAL (P) LBS	DIAMETER INCHES	EMBEDMENT DEPTH	CONCRETE BACKFILL YD ³ (2.)
A1, A2	48,704	1,247	1,089	42	10'-0"	2.7
B1, B2	77,348	1,933	2,063	30	14'-0"	1.8
C1	48,043	1,344	1,367	30	12'-0"	1.6
C2	48,372	1,228	1,089	42	10'-0"	2.7

1. ASD LOAD COMBINATION D+W.
VERTICAL FORCE IS WEIGHT OF DRESSED POLE (DOES NOT INCLUDE PRECAST BASE WEIGHT).
2. MINIMUM CONCRETE BACKFILL VOLUME, SITE CONDITIONS MAY REQUIRE ADDITIONAL BACKFILL.

DESIGN NOTES

DESIGN PARAMETERS:
WIND: 110 MPH (EXP. C, 1 = 1.0) PER IBC CODE, 2009 EDITION (ASCE 7-08)
DESIGN WIND PARAMETERS ARE AS NOTED. ACTUAL WIND SPEED AND EXPOSURE MUST BE VERIFIED FOR THE SITE BY THE PROPER GOVERNING OFFICIAL.

GEOTECHNICAL PARAMETERS:
ALLOWABLE END BEARING SOIL PRESSURE: 2,700 PSF
ALLOWABLE LATERAL SOIL BEARING PRESSURE:
(SEE APPENDIX E OF SOILS AND FOUNDATION REPORT LISTED BELOW,
IN ACCORDANCE WITH THE 2009 EDITION OF THE INTERNATIONAL BUILDING CODE, CHAPTER 18.

DESIGN SOIL PARAMETERS ARE AS NOTED. ACTUAL ALLOWABLE SOIL PARAMETERS MUST BE VERIFIED ON SITE. REFERENCE SOILS AND FOUNDATION REPORT, NO. H01415180, PREPARED BY HVJ ASSOCIATES, HOUSTON, TX.

A GEOTECHNICAL ENGINEER OR REPRESENTATIVE OF IS RECOMMENDED (NOT REQUIRED) TO BE AVAILABLE AT THE TIME OF THE FOUNDATION INSTALLATION TO VERIFY THE SOIL DESIGN PARAMETERS AND TO PROVIDE ASSISTANCE IF ANY PROBLEMS ARISE IN FOUNDATION INSTALLATION.

ENCOUNTERING SOIL FORMATIONS THAT WILL REQUIRE SPECIAL DESIGN CONSIDERATIONS OR EXCAVATION PROCEDURES MAY OCCUR. POLE FOUNDATIONS WILL NEED TO BE ANALYZED ACCORDING TO THE SOIL CONDITIONS THAT EXIST. IF ANY DISCREPANCIES OR INCONSISTENCIES ARISE, NOTIFY THE ENGINEER OF SUCH DISCREPANCIES. FOUNDATIONS WILL THEN BE REVISED ACCORDINGLY. REVISIONS WILL BE ANALYZED PER RECOMMENDATIONS DIRECTED BY A REGISTERED ENGINEER.

ALL EXCAVATIONS MUST BE FREE OF LOOSE SOIL AND DEBRIS PRIOR TO FOUNDATION INSTALLATION AND CONCRETE BACKFILL PLACEMENT. TEMPORARY CASINGS OR DRILLERS SLURRY MAY BE USED TO STABILIZE THE EXCAVATION DURING INSTALLATION. CASINGS MUST BE REMOVED DURING CONCRETE BACKFILL PLACEMENT. CONCRETE BACKFILL MUST BE PLACED WITH A TREMIE WHEN SLURRY OR WATER IS PRESENT WITHIN THE EXCAVATION OR WHEN THE FREE DROP EXCEEDS 8'-0".

CONTRACTOR MUST BE FAMILIAR WITH THE COMPLETE SOIL INVESTIGATION REPORT AND BORINGS, AND CONTACT THE GEOTECHNICAL FIRM (IF NECESSARY) TO UNDERSTAND THE SOIL CONDITIONS AND THE POSSIBILITY OF GROUND WATER PUMPING AND EXCAVATION STABILIZATION OR BRACING DURING PRECAST BASE INSTALLATION AND PLACEMENT OF CONCRETE BACKFILL.

CONCRETE:
CONCRETE SHALL BE AIR-ENTRAINED AND HAVE A MINIMUM COMPRESSIVE DESIGN STRENGTH AT 28 DAYS OF 3,000 PSI. 3,000 PSI CONCRETE SPECIFIED FOR EARLY POLE ERECTION. ACTUAL REQUIRED MINIMUM ALLOWABLE CONCRETE STRENGTH IS 1,000 PSI. ALL PIERS AND CONCRETE BACKFILL MUST BEAR ON AND AGAINST FIRM UNDISTURBED SOIL.

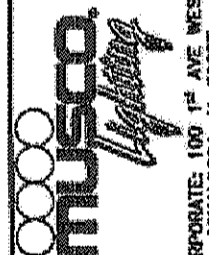
GENERAL NOTES:
FIXTURES MUST BE LOCATED TO MAINTAIN 10'-0" MINIMUM HORIZONTAL CLEARANCE FROM ANY OBSTRUCTION. ENGINEER MUST BE NOTIFIED IF FOUNDATIONS ARE NEAR ANY RETAINING WALLS OR WITHIN 10 FEET OF ANY SLOPES STEEPER THAN 3:1. V. POLES, FIXTURES, PRECAST BASES, ELECTRICAL ITEMS AND INSTALLATION PER MUSCO LIGHTING.

PRECAST BASE IDENTIFICATION					
PRECAST BASE TYPE	PRECAST BASE WEIGHT	PRECAST BASE LENGTH	PROJECTION ABOVE GRADE	STANDARD EMBEDMENT	OUTSIDE DIAMETER
2B	1,600 LBS	17'-3"	7'-3"	10'-0"	12.00"
3B	2,470 LBS	20'-0"	8'-0"	12'-0"	13.38"
4B	3,400 LBS	22'-0"	8'-0"	14'-0"	15.75"

POLE IDENTIFICATION				
POLE DESIGNATION	POLE TYPE	PRECAST BASE TYPE	FIXTURE CONFIGURATION (FIX. PER XARM)	FIXTURE AND ACCESSORIES EPA (FT)
A1, A2	LSS60A	2B	3 (3)	7.2
B1, B2	LSS60D	4B	7 (4+2)	16.8
C1	LSS60B	3B	4 (3)	8.1
C2	LSS60A	2B	3 (3)	8.8

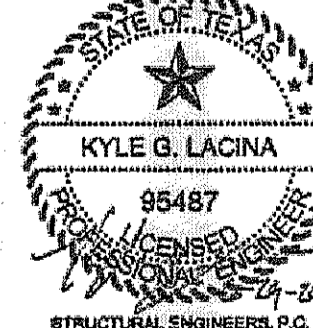
* POLES B1, B2, & C1 HAVE ONE MUSCO LSG FIXTURE AT 60°-0° AGL, INCLUDED ABOVE.

JAYCEE
PARK
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DRAWING TITLE: POLE AND FOUNDATION
SCALE: SEE PLAN
NOTES:
PROJECT NUMBER: 178732
DATE: 20 JUNE 2016
DRAWING NUMBER: C1
OF TWO

DESIGN FILE: XXXXXXXX.dwg

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