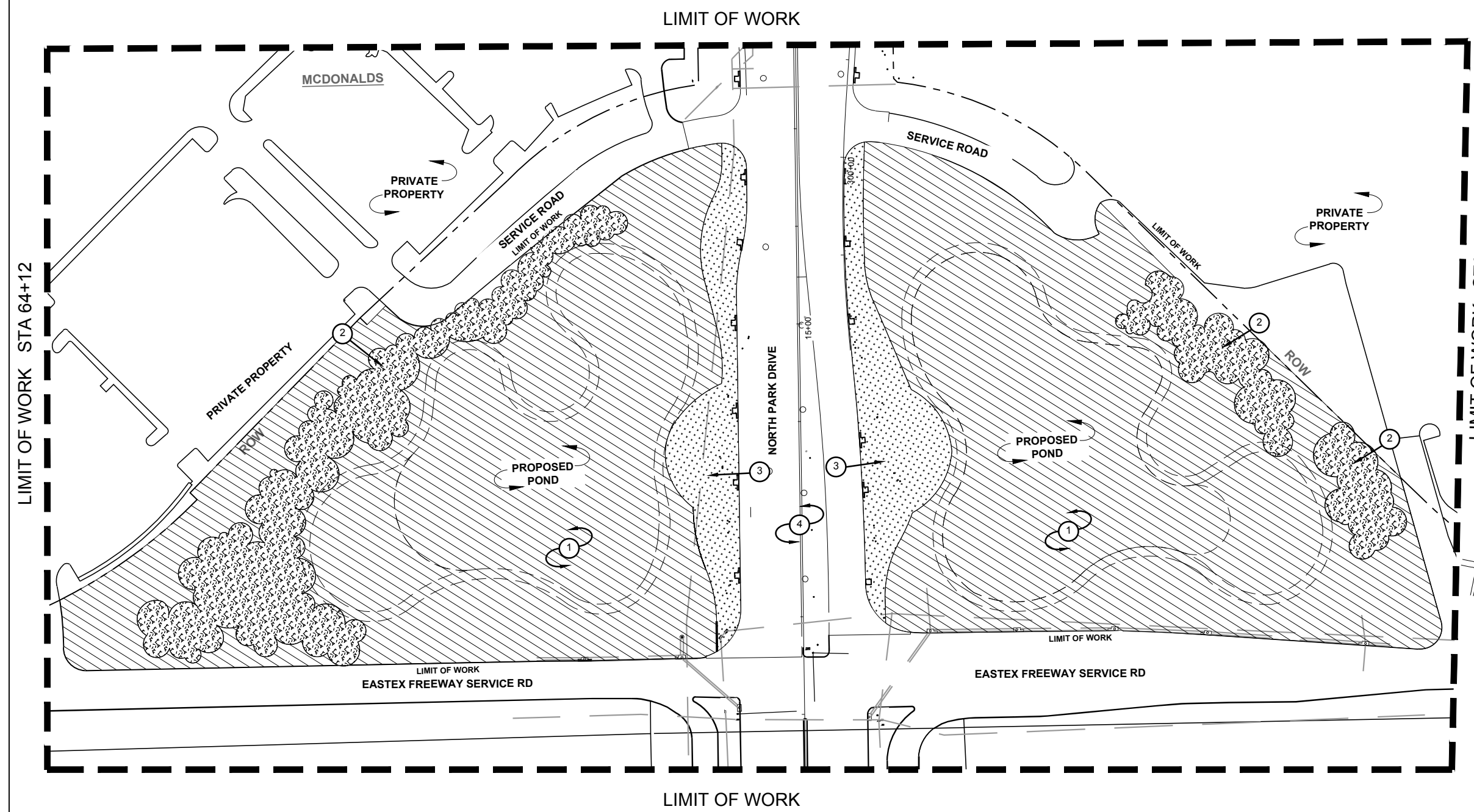




0 30 60 120  
SCALE: 1"=120'



**DRAWING LEGEND:**

SYMBOL	DESCRIPTION
	TYPE 1 PREPARING ROW (TYPE 1)
	TYPE 2 PREPARING ROW (TYPE2)
	TYPE 3 PREPARING ROW



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RESPONSIBLE LANDSCAPE ARCHITECT:  
MICHAEL MAUER  
TEXAS REGISTRATION NO. 1510  
DATE: JANUARY 2021

**SHEET QUANTITIES - CLEARING AND GRUBBING**

ITEM	DESCRIPTION	UNIT	QTY.
0100-6001	TYPE 1 PREPARING ROW (TYPE 1)	AC	8.1
0100-6015	TYPE 2 PREPARING ROW (HAND CLEARING)	AC	0.9
0100-6002	PREPARING ROW (TYPE 3)	AC	1.3

**GENERAL NOTES:**

- COORDINATE CLEARING AND GRUBBING ACTIVITIES WITH TREE PRESERVATION & TRANSPLANTING ACTIVITIES.
- SEE SITE CIVIL DRAWING FOR ROADWAY REMOVAL, GRADING AND RIGHT OF WAY PREPARATION.
- GENERAL OUTLINE OF TREE PRESERVATIONS AREAS IS APPROXIMATE. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECTURE PRIOR TO STAKE LIMITS.

**PLAN NOTES**

- PREPARING ROW (TYPE 1) - REMOVE ALL VEGETATION & STUMPS TO 2'-0" BELOW FINISH GRADE & DISPOSE OF OFF SITE.
- PREPARING ROW (HAND CLEARING) NO MECHANICAL EQUIPMENT ALLOWED. REMOVE ALL STUMPS, DEBRIS & FALLEN DEAD MATERIAL & DISPOSE OF OFF SITE.
- PREPARING ROW (TYPE 2) ALL ACTIVITIES OF TYPE 1, IN ADDITION TO IRRIGATION EQUIPMENT, LIGHTING, EDGING & STONE WALLS. (CONTRACTOR TO NOTIFY OWNER PRIOR TO DEMOLITION AS FINALS FOR POTENTIAL RESERVE. IF OWNER WANTS MATERIALS, CONTRACTOR SHALL STOCKPILE ON SITE FOR OWNER PICKUP.
- SEE CIVIL DRAWINGS FOR ROADWAY ROW PREP.

NO.	REVISIONS	BY	DATE

**M2L** M2L ASSOCIATES, INC.  
8955 KATY FWY, SUITE 300  
HOUSTON, TX 77024

**HNTB** HNTB Corporation  
The HNTB Companies  
Infrastructure Solutions  
Firm Registration Number 420

CITY OF HOUSTON  
HOUSTON PUBLIC WORKS

LAKE HOUSTON REDEVELOPMENT AUTHORITY  
200 ALLEN BOONE HUMPHRIES  
ROBINSON LLP  
3200 SOUTHWEST FREEWAY  
SUITE 2600 HOUSTON, TX 77027

<b>NORTH PARK DRIVE</b>				
<b>CLEARING AND GRUBBING</b>				
DESIGNED:	FED. RD. DIV. No.	STATE	CITY OF HOUSTON WBS	HIGHWAY No.
CHECKED:	6	TEXAS	SEE TITLE SHEET	CS
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.
CHECKED:	HOU	HARRIS	0912	37
				JOB No. 232 SHEET No. <b>614</b>

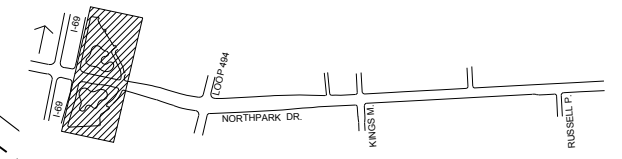
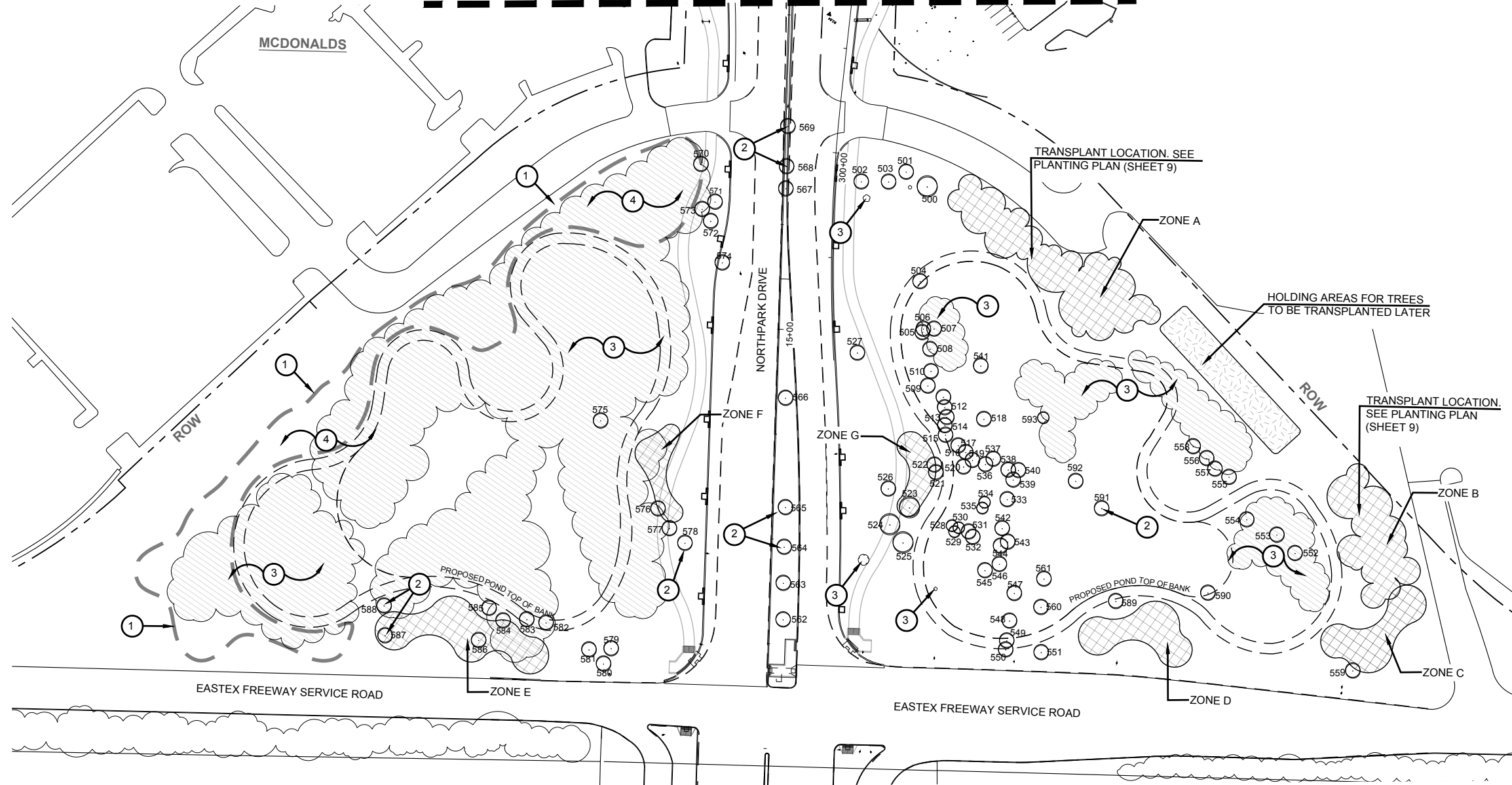
MATCH LINE A STA 18+00



0 30 60 120  
SCALE: 1"=120'

SHEET QUANTITIES - TREE PRESERVATION			
ITEM	DESCRIPTION	UNIT	QNTY.
1003-6002	TRANSPLANT PLANT MATERIAL (2-1/2"-4")	EA	25
1003-6003	TRANSPLANT PLANT MATERIAL (4"-8")	EA	4
1003-6004	TRANSPLANT PLANT MATERIAL (8"-10")	EA	27
1003-6005	TRANSPLANT PLANT MATERIAL (11"-13")	EA	34
1004-6002	TREE PROTECTION	AC	0.90

ALL TREES TO BE TRANSPLANTED IN ZONE A-G AS SHOWN ON PLAN (SEE PLANTING PLANS)

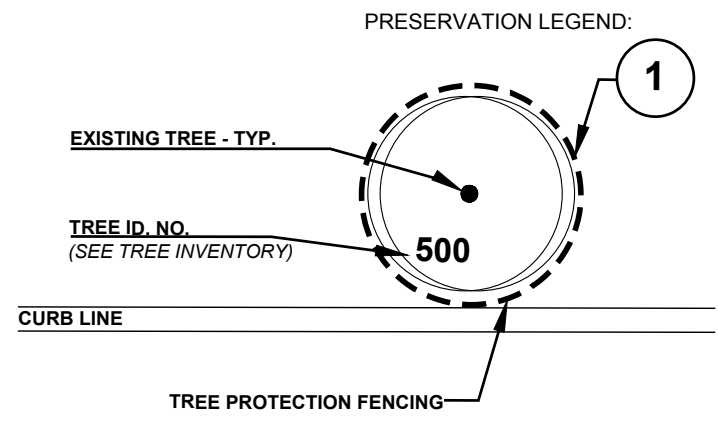


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RESPONSIBLE LANDSCAPE ARCHITECT:  
MICHAEL MAUER  
TEXAS REGISTRATION NO. 1510  
DATE: JANUARY 2021

- GENERAL NOTES:**
- LOCATIONS OF TREE PRESERVATION FENCING IS APPROXIMATE. COORDINATE WITH LANDSCAPE ARCHITECT PRIOR TO CONTACTING ARCHITECTS.
  - CONTRACTOR SHALL SEEK PRIOR APPROVAL FROM THE CONTRACTORS ARBORIST, CITY URBAN FORESTER, AND LANDSCAPE ARCHITECT PRIOR TO INITIATION OF TREE REMOVAL AND/OR TREE PROTECTION ACTIVITIES WITHIN THE PROJECT SCOPE OF WORK.
  - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT NO DAMAGE TO EXISTING TREE TO BE PROTECTED AND/OR THOSE THAT HAVE THEIR TRUNKS OUTSIDE OF THE PROJECT LIMITS BUT HAVE SIGNIFICANT BRANCH OVERHANG INTO THE PROJECT LIMITS.
  - THE CONTRACTOR SHALL NOT, AT ANY TIME, PARK CONSTRUCTION VEHICLES, MATERIALS, OR EQUIPMENT INSIDE OF THE TREE PROTECTION ZONE (TPZ) OF TREES TO BE PROTECTED.
  - SEE TREE PRESERVATION DETAILS AND SPECIFICATIONS FOR DISPOSITION AND CONDITIONAL TREATMENT OF TREES NOTED ON THE DRAWINGS
  - ALL NOTED TREES ON DRAWINGS MAY REQUIRE ADDITIONAL CONDITIONAL TREATMENT OTHER THAN NOTED ON THE PLANS. SEE TREE INVENTORY AND TREE PRESERVATION DETAILS.
  - CONTRACTOR TO PROVIDE WATER, TREATMENT FOR BORERS AND OTHER INSECTICIDE TREATMENTS FOR TREES TO BE PRESERVED AS NEEDED PER ARBORISTS RECOMMENDATIONS
  - CONTRACTOR TO EXERCISE CAUTION WHEN WORKING AROUND ALL EXISTING TREES REGARDLESS OF SPECIFIC MEASURES THAT ARE NOTED ON THESE PLANS AND DETAILS AT ALL TIMES AND TO THE EXTENT REQUIRED BY THE CONTRACT DOCUMENTS AND TECHNICAL SPECIFICATIONS.
  - CONTRACTOR TO PROVIDE ALL COSTS TO SUPPLY TEMPORARY WATERING OF TREES LOCATED IN THE TREE HOLDING AREAS.

- PLAN NOTES / LEGEND:**
- TREE PROTECTION FENCING, TYPICAL SEE TREE
  - TREE TO BE TRANSPLANTED, SEE TREE
  - TREES TO BE REMOVED TYPICAL
  - EXISTING TREES TO BE PRESERVED IN PLACE, SEE TREE PRESERVATION DETAILS
  - TRANSPLANT TREE LOCATION
  - HOLDING AREAS FOR TRANSPLANTED TREES



NO.	REVISIONS	BY	DATE

**M2L ASSOCIATES, INC.**  
 8955 KATY FWY, SUITE 300  
 HOUSTON, TX 77024  
**HNTB**  
 HNTB Corporation  
 The HNTB Companies  
 Infrastructure Solutions  
 Firm Registration Number 420  
**CITY OF HOUSTON**  
 HOUSTON PUBLIC WORKS  
**LAKE HOUSTON REDEVELOPMENT AUTHORITY**  
 24 ALLEN BOONE HUMPHRIES  
 ROBINSON LLP  
 3200 SOUTHWEST FREEWAY  
 SUITE 2600 HOUSTON, TX 77027

**NORTH PARK DRIVE**

**TREE PRESERVATION**  
SHEET 1 OF 2

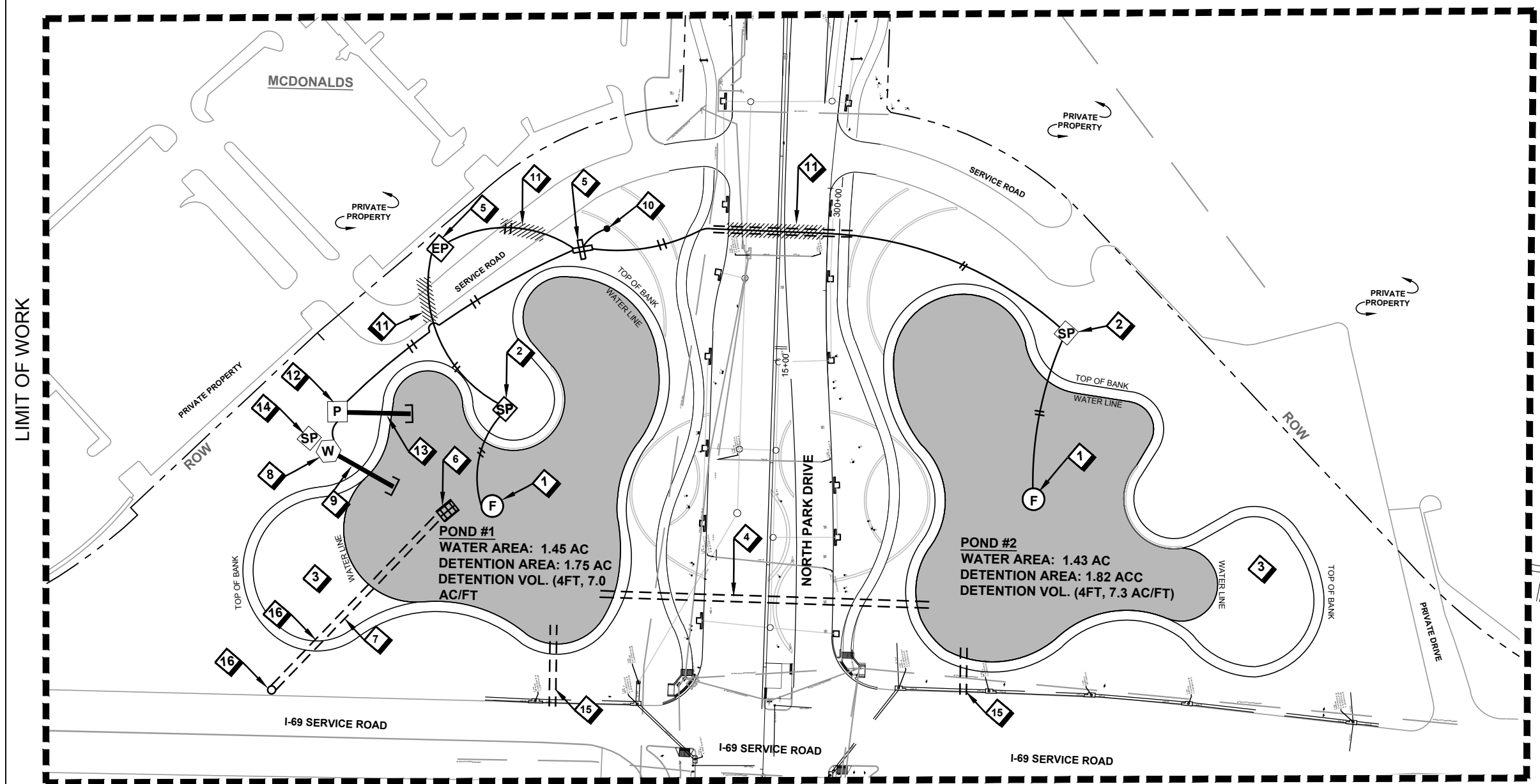
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CHECKED:	6	TEXAS	SEE TITLE SHEET	CS
DRAWN:	STATE DISTRICT	COUNTY	CONTROL SECTION No.	JOB No.
CHECKED:	HOU	HARRIS	0912 37	232

615

LIMIT OF WORK

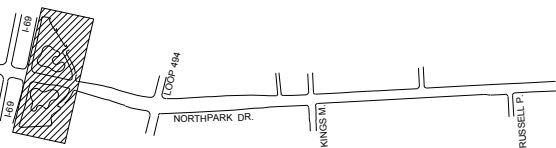


0 30 60 120  
SCALE: 1"=120'



**POND #1**  
WATER AREA: 1.45 AC  
DETENTION AREA: 1.75 AC  
DETENTION VOL. (4FT, 7.0 AC/FT)

**POND #2**  
WATER AREA: 1.43 AC  
DETENTION AREA: 1.82 ACC  
DETENTION VOL. (4FT, 7.3 AC/FT)



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RESPONSIBLE LANDSCAPE ARCHITECT:  
MICHAEL MAUER  
TEXAS REGISTRATION NO. 1510  
DATE: JANUARY 2021

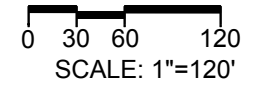
**PLAN KEY NOTES:**

1. FLOATING AERATION FOUNTAIN WITH INTEGRATED LIGHTING. **SEE POND AERATION DETAIL SHEET 1 OF 1**
2. PROPOSED AERATION ELECTRICAL SUB-PANEL. **SEE SITE MEP DRAWINGS**
3. FUTURE POND EXPANSION AREA.
4. 60" DIA. RCP POND EQUALIZATION PIPE. **SEE CIVIL DRAWINGS**
5. PROPOSED 200 AMP. SINGLE PHASE PANEL ELECTRICAL SERVICE IN NEMA 3P ENCLOSURE UPGRADE TO EXISTING POWER INLET DROP. **SEE SITE MEP DRAWINGS**
6. POND OVERFLOW STRUCTURE. **SEE CIVIL DRAWINGS.**
7. 48" RCP POND OUTFALL PIPE. **SEE CIVIL DRAWINGS**
8. POND MAKEUP WATER WELL, PROPOSED 50 AMP 120/240 V. SINGLE PHASE PUMP WITH 5 HP UNIT PRESSURE TANK. WELL SIZE T.B.D **SEE MEP DRAWINGS**
9. 4" Ø MAKE UP WATER FILL LINE FROM WELL TO POND.
10. PROPOSED ELECTRICAL SOURCE POLE AND DISCONNECT.
11. PROPOSED BORE AND ELECTRICAL CONDUIT. **SEE MEP DRAWINGS.**
12. IRRIGATION PUMP
13. WATER SUCTION PUMP PIPE FROM POND TO IRRIGATION PUMP. (SIZE TBD)
14. WELL SERVICE ELECTRICAL SUB-PANEL.
15. 48" DIA RCP. INFLOW PIPE. **SEE CIVIL DRAWINGS.**
16. EXISTING IH-69 DRAWING SYSTEM.

**GENERAL NOTE**

- A. LOCATION OF PROPOSED FOUNTAIN, ELECTRICAL, AND POND FEATURES & ARE PRELIMINARY IN NATURE.
- B. LOCATION OF POWER SOURCE TO BE DETERMINED
- C. SEE MEP DRAWINGS FOR FINAL LOCATIONS OF SERVICE CONTROL PANELS, CONDUIT & CONDUCTORS.
- D. SITE LIGHTING DRAWINGS

NO.	REVISIONS	BY	DATE
M2L ASSOCIATES, INC. 8955 KATY FWY, SUITE 300 HOUSTON, TX 77024			
HNTB Corporation The HNTB Companies Infrastructure Solutions Firm Registration Number 420			
CITY OF HOUSTON HOUSTON PUBLIC WORKS		LAKE HOUSTON REDEVELOPMENT AUTHORITY 60 ALLEN BOONE HUMPHRIES ROBINSON LLP 3200 SOUTHWEST FREEWAY SUITE 2600 HOUSTON, TX 77027	
<b>NORTH PARK DRIVE</b>			
<b>POND DEVELOPMENT PLAN</b> <b>POND-01</b>			
<b>SHEET 1 OF 7</b>			
DESIGNED:	FED. RD. DIV. No.	STATE	CITY OF HOUSTON WBS
CHECKED:	6	TEXAS	SEE TITLE SHEET
DRAWN:	STATE DISTRICT	COUNTY	CONTROL SECTION
CHECKED:	HOU	HARRIS	0912 37 232
			HIGHWAY No. CS JOB No. SHEET No. <b>619</b>



GRADING LEGEND			
+ TW	TOP OF WALL	○	MANNHOLE
+ TC	TOP OF CURB	PP□	POWER POLE
+ BC	BOTTOM OF CURB	+ TB	TOP OF BANK
+ TP	TOP OF PAVEMENT	+ BB	BOTTOM OF BANK
+ FG	FINISH GRADE	+ 75.60	EXISTING ELEVATION
+ TG	TOP OF GRATE/RIM	+ (75.60)	PROPOSED ELEVATION
+ HP	HIGH POINT	-----	TRENCH DRAIN
SWALE		→	SURFACE FLOW
HIGH BANK		(BA)	EXISTING CONTOUR LINE
PROP. INLET DRAIN, (SEE CIVIL DRAWINGS)		---	PROPOSED STORM SEWER (SEE CIVIL DRAWINGS)
JUNCTION BOX (SEE CIVIL DRAWINGS)		-----	PERFORATED DRAIN PIPE (1% FLOW LINE SLOPE)
SECTION MARKERS WITH SHEET NO.		①	PROPOSED CONTOURS



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RESPONSIBLE LANDSCAPE ARCHITECT:

MICHAEL MAUER

TEXAS REGISTRATION NO. 1510

DATE: JANUARY 2021

NO.	REVISIONS	BY	DATE

**M2L** M2L ASSOCIATES, INC.  
8955 KATY FWY, SUITE 300  
HOUSTON, TX 77024

**HNTB** HNTB Corporation  
The HNTB Companies  
Infrastructure Solutions  
Firm Registration Number 420

CITY OF HOUSTON  
HOUSTON PUBLIC WORKS

LAKE HOUSTON REDEVELOPMENT AUTHORITY  
240 ALLEN BOONE HUMPHRIES ROBINSON LLP  
3200 SOUTHWEST FREEWAY  
SUITE 2600 HOUSTON, TX 77027

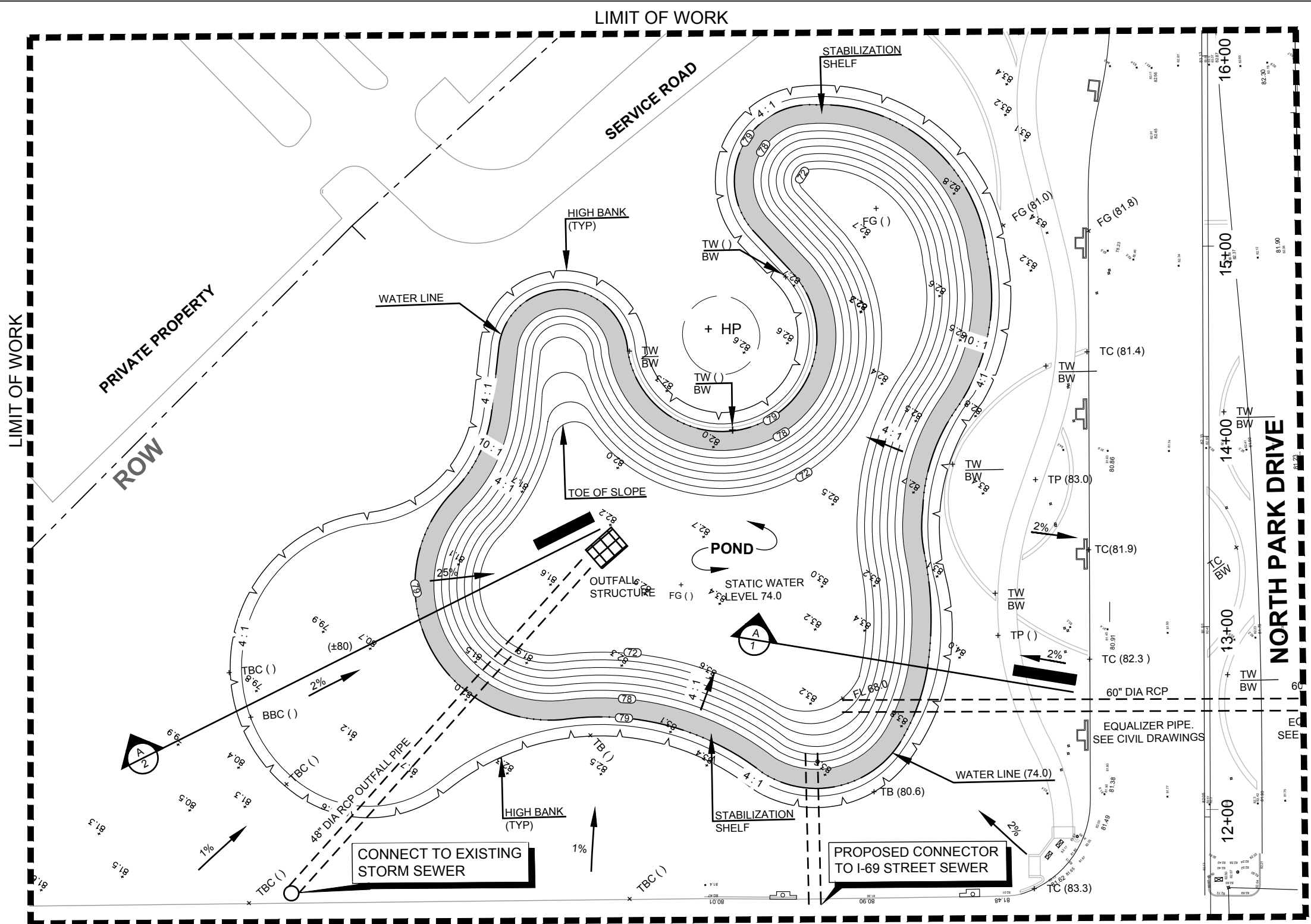
**NORTHPARK DRIVE**

**GRADING & EXCAVATION**

**POND-02**

**SHEET 2 OF 7**

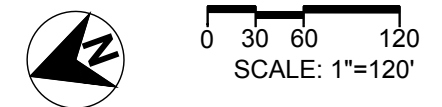
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CHECKED:	6	TEXAS	SEE TITLE SHEET	CS
DRAWN:	STATE DISTRICT	COUNTY	CONTROL SECTION No.	JOB No.
CHECKED:	HOU	HARRIS	0912 37	232
				SHEET No. 620



- GRADING NOTES**
- CONTRACTOR TO VERIFY THE LOCATION AND CONDITIONS OF ALL UNDERGROUND UTILITIES IN THE FIELD.
  - ALL LANDSCAPE BERMS SHALL BE GRADED IN A SMOOTH AND CONTINUOUS MANNER WITH NO ABRUPT GRADE TRANSITIONS.
  - LANDSCAPE BERM ROUGH GRADING ELEVATIONS SHALL BE ±2" BELOW FINISHED GRADE TO ALLOW FOR INSTALLATION OF TOPSOIL DRESSING AND TURF SODDING/HYDROSEEDING.
  - CONTRACTOR TO VERIFY EXISTING PROPERTY CORNER ELEVATIONS AND SITE BENCH MARK SPOT ELEVATIONS IN THE FIELD. NOTIFY LANDSCAPE ARCHITECT IF DISCREPANCIES ARE PRESENT THAT WOULD OTHERWISE AFFECT THE PROPOSED LANDSCAPE GRADING DESIGN.
  - LANDSCAPE AREAS SHALL DRAIN AT A MINIMUM SLOPE OF 2%, 1% FOR CONCENTRATED SWALES OR AS NOTED ON THE DRAWINGS. HARDSCAPE AREAS SHALL DRAIN AT A MINIMUM SLOPE OF 1% TO A MAXIMUM OF 5%. CROSS SLOPES FOR SIDEWALKS SHALL NOT EXCEED 2%.
  - CONSTRUCTED PAVEMENT AREAS SHALL NOT HAVE MORE THAN 1/8" HIGH STANDING WATER IN A 10'-0" AREA.
  - CONTRACTOR TO PROTECT EXISTING TREES THAT FALL WITHIN OR ADJACENT TO SITE GRADING ACTIVITIES. TREE PRESERVATION DEVICES SHALL BE INSTALLED AND MAINTAINED FOR THE DURATION OF THE CONSTRUCTION PERIOD.
  - ALL RIGHTS-OF-WAY SHALL DRAIN TO PUBLIC STREET, ALL OTHERS AREAS TO DRAIN INTERNALLY UNLESS OTHERWISE NOTED ON THE DRAWINGS.
  - CONTRACTOR SHALL IMPORT OFF-SITE FILL MATERIAL AS NECESSARY TO CREATE LANDSCAPE BERMS OR STOCKPILE FROM ON-SITE SOURCES IF PROVIDED FOR BY THE DRAWINGS AND/OR SEE SPECIFICATIONS.
  - REFER TO CIVIL ENGINEERING DRAWINGS FOR SITE INLETS, PIPING, AND CONVEYANCE TO THE REQUIRED PUBLIC STORM WATER SYSTEM.

- GENERAL NOTES:**
- COORDINATE BENTONITE POND LINER WITH GEOTECHNICAL REPORT AND SITE CIVIL DRAWING
  - SEE LANDSCAPE GENERAL NOTES SHEET 2 OF 2 FOR ADDITIONAL EXCAVATION, GRADING, AND POND LINING INFORMATION
  - WASTE DISPOSAL IS INCIDENTAL AND NOT PAID FOR SEPARATE.

SHEET QUANTITIES - POND GRADING			
ITEM	DESCRIPTION	UNIT	QNTY.
0110-6003	EXCAVATION (SPECIAL)	CY	17,923
0400-6005	POND EDGE STABILIZATION	CY	227



GRADING LEGEND			
+ TW	TOP OF WALL	○	MANNHOLE
+ TC	TOP OF CURB	PP□	POWER POLE
+ BC	BOTTOM OF CURB	+ TB	TOP OF BANK
+ TP	TOP OF PAVEMENT	+ BB	BOTTOM OF BANK
+ FG	FINISH GRADE	+ 75.60	EXISTING ELEVATION
+ TG	TOP OF GRATE/RIM	+ (75.60)	PROPOSED ELEVATION
+ HP	HIGH POINT	-----	TRENCH DRAIN
SWALE		→	SURFACE FLOW
HIGH BANK		(BA)	EXISTING CONTOUR LINE
PROP. INLET DRAIN, (SEE CIVIL DRAWINGS)		---	PROPOSED STORM SEWER (SEE CIVIL DRAWINGS)
JUNCTION BOX (SEE CIVIL DRAWINGS)		---	PERFORATED DRAIN PIPE (1% FLOW LINE SLOPE)
SECTION MARKERS WITH SHEET NO.		⑨	PROPOSED CONTOURS



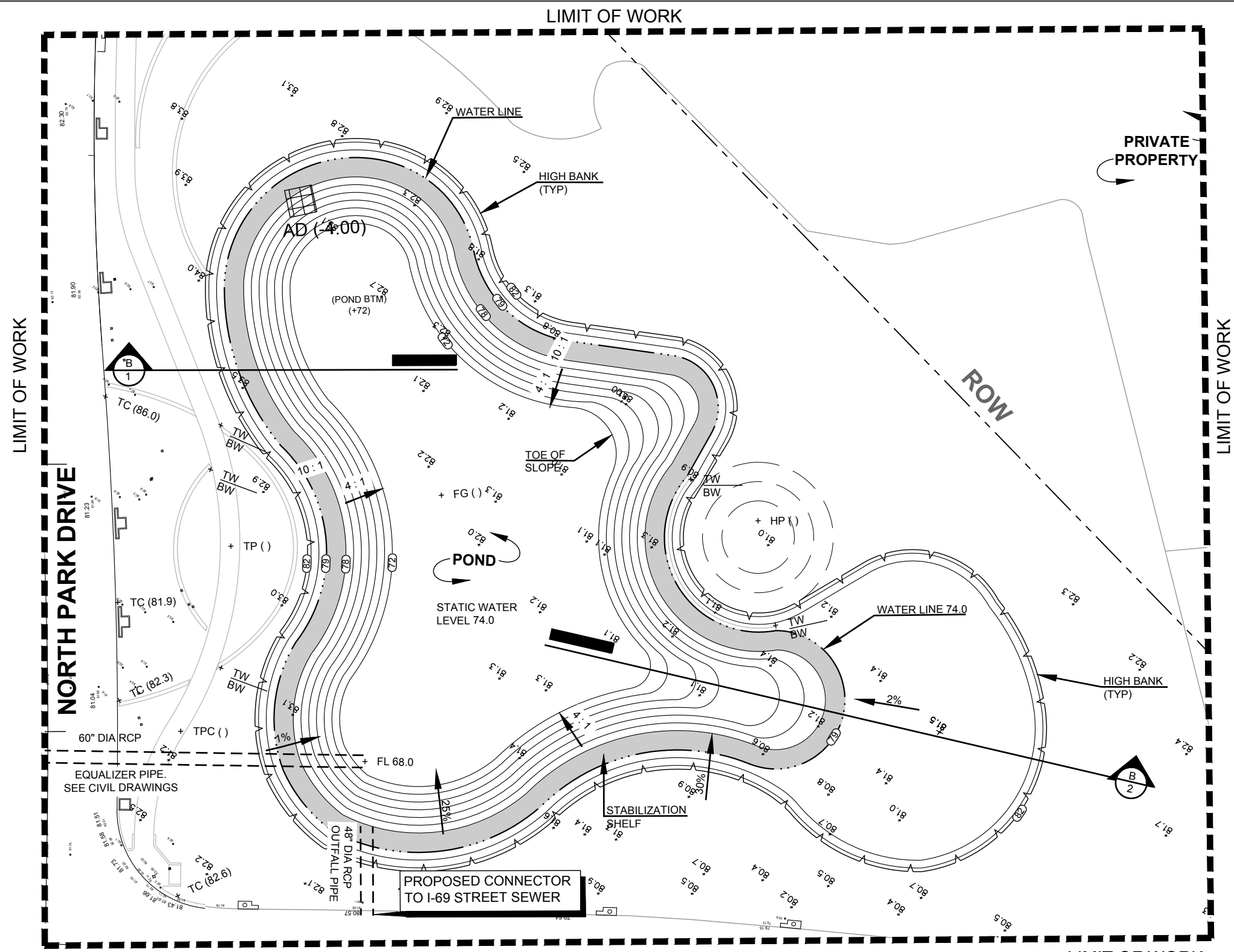
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RESPONSIBLE LANDSCAPE ARCHITECT:

MICHAEL MAUER  
TEXAS REGISTRATION NO. 1510  
DATE: JANUARY 2021



- GRADING NOTES**
- CONTRACTOR TO VERIFY THE LOCATION AND CONDITIONS OF ALL UNDERGROUND UTILITIES IN THE FIELD.
  - ALL LANDSCAPE BERMS SHALL BE GRADED IN A SMOOTH AND CONTINUOUS MANNER WITH NO ABRUPT GRADE TRANSITIONS.
  - LANDSCAPE BERM ROUGH GRADING ELEVATIONS SHALL BE ±2" BELOW FINISHED GRADE TO ALLOW FOR INSTALLATION OF TOPSOIL DRESSING AND TURF SODDING/HYDROSEEDING.
  - CONTRACTOR TO VERIFY EXISTING PROPERTY CORNER ELEVATIONS AND SITE BENCH MARKS SPOT ELEVATIONS IN THE FIELD. NOTIFY LANDSCAPE ARCHITECT IF DISCREPANCIES ARE PRESENT THAT WOULD OTHERWISE AFFECT THE PROPOSED LANDSCAPE GRADING DESIGN.
  - LANDSCAPE AREAS SHALL DRAIN AT A MINIMUM SLOPE OF 2%, 1% FOR CONCENTRATED SWALES OR AS NOTED ON THE DRAWINGS. HARDSCAPE AREAS SHALL DRAIN AT A MINIMUM SLOPE OF 1% TO A MAXIMUM OF 5%. CROSS SLOPES FOR SIDEWALKS SHALL NOT EXCEED 2%.
  - CONSTRUCTED PAVEMENT AREAS SHALL NOT HAVE MORE THAN 1/8" HIGH STANDING WATER IN A 10'-0" AREA.
  - CONTRACTOR TO PROTECT EXISTING TREES THAT FALL WITHIN OR ADJACENT TO SITE GRADING ACTIVITIES. TREE PRESERVATION DEVICES SHALL BE INSTALLED AND MAINTAINED FOR THE DURATION OF THE CONSTRUCTION PERIOD.
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  - CONTRACTOR SHALL IMPORT OFF-SITE FILL MATERIAL AS NECESSARY TO CREATE LANDSCAPE BERMS OR STOCKPILE FROM ON-SITE SOURCES IF PROVIDED FOR BY THE DRAWINGS AND/OR SEE SPECIFICATIONS.
  - REFER TO CIVIL ENGINEERING DRAWINGS FOR SITE INLETS, PIPING, AND CONVEYANCE TO THE REQUIRED PUBLIC STORM WATER SYSTEM.

- GENERAL NOTES:**
- COORDINATE BENTONITE POND LINER WITH GEOTECHNICAL REPORT AND SITE CIVIL DRAWING
  - SEE LANDSCAPE GENERAL NOTES SHEET 2 OF 2 FOR ADDITIONAL EXCAVATION, GRADING, AND POND LINING INFORMATION
  - WASTE DISPOSAL IS INCIDENTAL AND NOT PAID FOR SEPARATE.

SHEET QUANTITIES - POND GRADING			
ITEM	DESCRIPTION	UNIT	QNTY.
0110-6003	EXCAVATION (SPECIAL)	CY	26,070
0400-6005	POND EDGE STABILIZATION	CY	213

NO.	REVISIONS	BY	DATE

M2L ASSOCIATES, INC.  
8955 KATY FWY, SUITE 300  
HOUSTON, TX 77024

**HNTB**  
HNTB Corporation  
The HNTB Companies  
Infrastructure Solutions  
Firm Registration Number 420

CITY OF HOUSTON  
HOUSTON PUBLIC WORKS

LAKE HOUSTON REDEVELOPMENT AUTHORITY  
240 ALLEN BOONE HUMPHRIES ROBINSON LLP  
3200 SOUTHWEST FREEWAY  
SUITE 2600 HOUSTON, TX 77027

**NORTHPARK DRIVE**

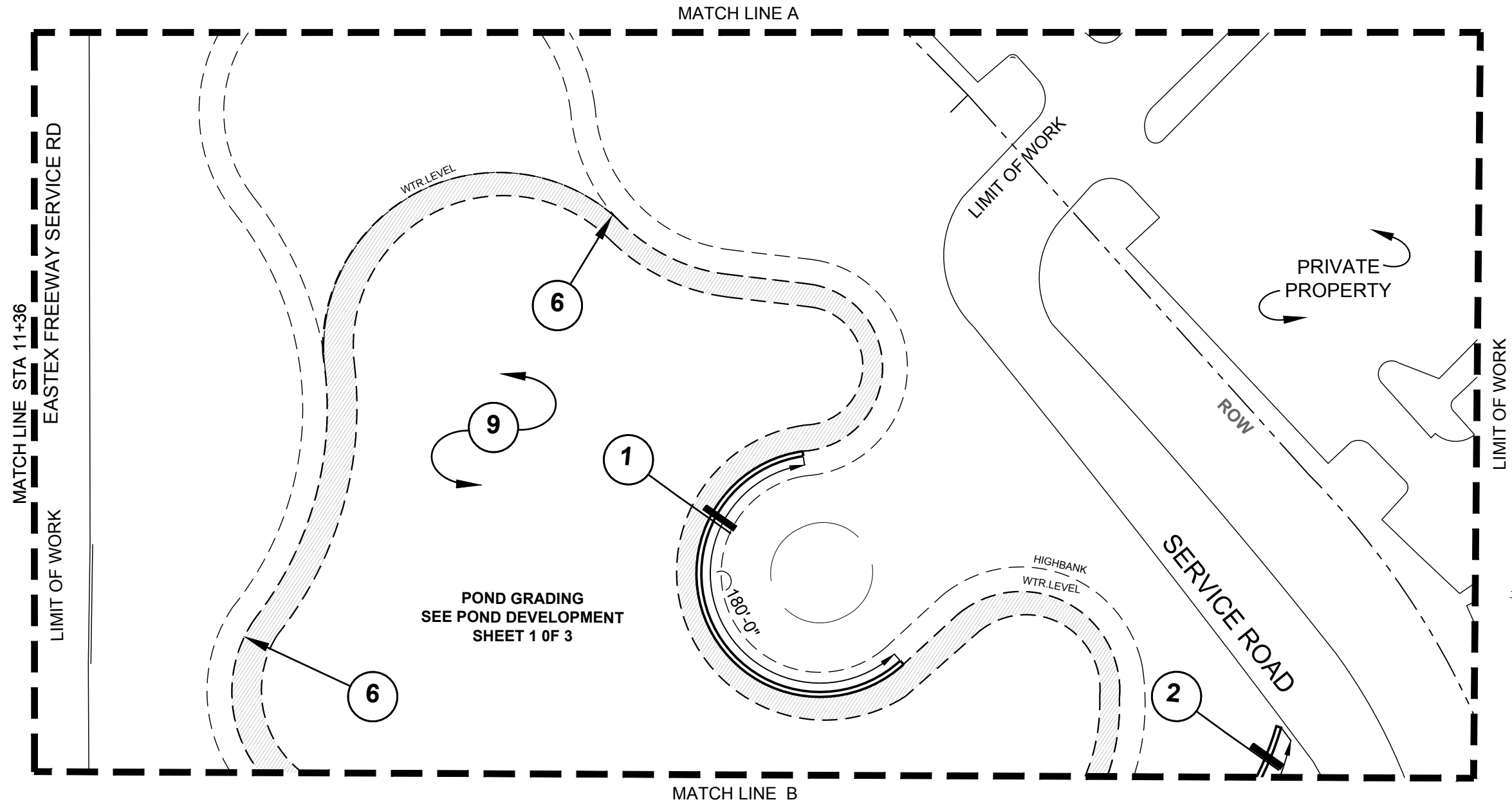
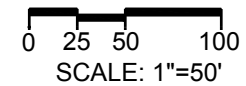
**GRADING & EXCAVATION**

**POND-03**

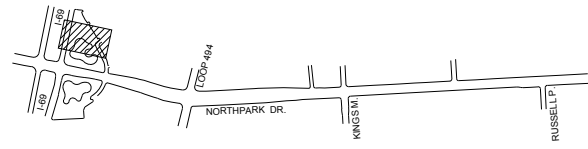
**SHEET 3 OF 7**

DESIGNED:	FED. RD. DIV. No.	STATE	CITY OF HOUSTON WBS	HIGHWAY No.
CHECKED:	6	TEXAS	SEE TITLE SHEET	CS
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.
CHECKED:	HOU	HARRIS	0912	37

JOB No. 232 SHEET No. 621



SHEET QUANTITIES - LAYOUT		
ITEM	DESCRIPTION	UNIT QNTY.
0529-6033	CONCRETE BAND (LANDSCAPE)	LF 0
5009-6001	STONE MASONRY (FREESTANDING)	LF 26
5009-6002	STONE MASONRY (RETAINING)	LF 180
5009-6003	STONE MASONRY (WITH CAP)	LF 0



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RESPONSIBLE LANDSCAPE ARCHITECT:  
MICHAEL MAUER  
TEXAS REGISTRATION NO. 1510  
DATE: JANUARY 2021

**GENERAL NOTES:**  
A. SEE LANDSCAPE GENERAL NOTES SHEET 1 OF 1 FOR ADDITIONAL LANDSCAPE LAYOUT INFORMATION


- LAYOUT PLAN NOTES:**
1. STACKED STONE WALL @ POND EDGE, SEE DETAIL #1, HARDSCAPE DETAILS SHEET 1 OF 3
  2. STACKED STONE WALL - FREESTANDING, SEE DETAIL #2, HARDSCAPE DETAILS SHEET 1 OF 3
  3. LOW STONE WALL WITH CAST STONE CAP, SEE DETAIL #3, HARDSCAPE DETAILS SHEET 1 OF 3.
  4. CONCRETE SIDE PATH, SEE CIVIL ENGINEERING DRAWINGS
  5. CONCRETE LANDSCAPE BAND, SEE DETAIL #5, HARDSCAPE DETAILS SHEET 1 OF 3
  6. POND EDGE STABILZAION, SEE DETAIL #1, HARDSCAPE DETAILS SHEET 3 OF 3
  7. ACCESS RAMP, SEE CIVIL ENGINEERING DRAWINGS.
  8. MEDIAN PAVEMENT, SEE CIVIL ENGINEERING DRAWINGS.
  9. POND LINER , SEE CIVIL ENGINEERING DRAWINGS.

NO.	REVISIONS	BY	DATE

 M2L ASSOCIATES, INC.  
8965 KATY FWY, SUITE 300  
HOUSTON, TX 77024

 HNTB Corporation  
The HNTB Companies  
Infrastructure Solutions  
Firm Registration Number 420

CITY OF HOUSTON  
HOUSTON PUBLIC WORKS

 LAKE HOUSTON REDEVELOPMENT AUTHORITY  
610 ALLEN BOONE HUMPHRIES  
ROBINSON LLP  
3200 SOUTHWEST FREEWAY  
SUITE 2600 HOUSTON, TX 77027

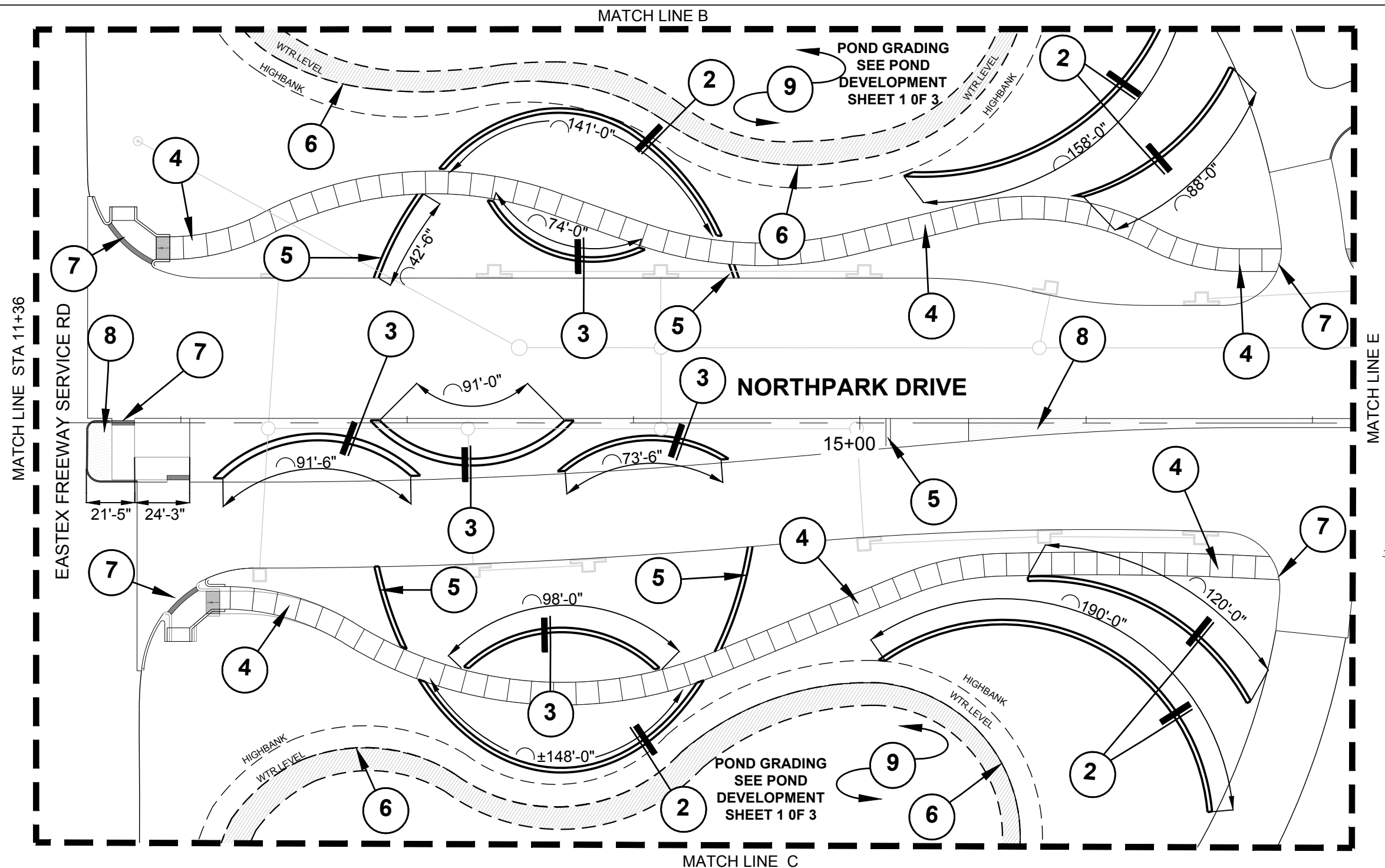
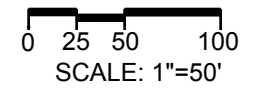
**NORTH PARK DRIVE**

**HARDSCAPE LAYOUT**

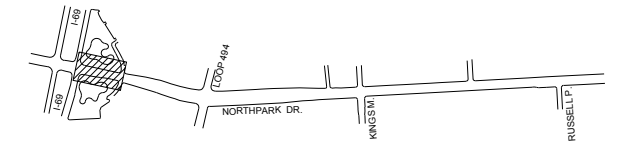
**SHEET 2 OF 17**

DESIGNED:	FED. RD. DIV. No.	STATE	CITY OF HOUSTON WBS	HIGHWAY No.
CHECKED:	6	TEXAS	SEE TITLE SHEET	CS
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.
CHECKED:	HOU	HARRIS	0912	37 232

**628**



SHEET QUANTITIES - LAYOUT		
ITEM	DESCRIPTION	UNIT QNTY.
0529-6033	CONCRETE BAND (LANDSCAPE)	LF 150
5009-6001	STONE MASONRY (FREESTANDING)	LF 845
5009-6002	STONE MASONRY (RETAINING)	LF 289
5009-6003	STONE MASONRY (WITH CAP)	LF 428



INTERIM REVIEW ONLY

90% SUBMITTAL

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RESPONSIBLE LANDSCAPE ARCHITECT:  
MICHAEL MAUER  
TEXAS REGISTRATION NO. 1510  
DATE: JANUARY 2021

- LAYOUT PLAN NOTES:**
1. STACKED STONE WALL @ POND EDGE, SEE DETAIL #1, HARDSCAPE DETAILS SHEET 1 OF 3
  2. STACKED STONE WALL - FREESTANDING, SEE DETAIL #2, HARDSCAPE DETAILS SHEET 1 OF 3
  3. LOW STONE WALL WITH CAST STONE CAP, SEE DETAIL #3, HARDSCAPE DETAILS SHEET 1 OF 3.
  4. CONCRETE SIDE PATH, SEE CIVIL ENGINEERING DRAWINGS
  5. CONCRETE LANDSCAPE BAND, SEE DETAIL #5, HARDSCAPE DETAILS SHEET 1 OF 3
  6. POND EDGE STABILIZATION, SEE DETAIL #1, HARDSCAPE DETAILS SHEET 3 OF 3
  7. ACCESS RAMP, SEE CIVIL ENGINEERING DRAWINGS.
  8. MEDIAN PAVEMENT, SEE CIVIL ENGINEERING DRAWINGS.
  9. POND LINER, SEE CIVIL ENGINEERING DRAWINGS.

**GENERAL NOTES:**

A. SEE LANDSCAPE GENERAL NOTES SHEET 1 OF 1 FOR ADDITIONAL LANDSCAPE LAYOUT INFORMATION

NO.	REVISIONS	BY	DATE

	M2L ASSOCIATES, INC. 8955 KATY FWY, SUITE 300 HOUSTON, TX 77024
	HNTB Corporation The HNTB Companies Infrastructure Solutions Firm Registration Number 420
CITY OF HOUSTON HOUSTON PUBLIC WORKS	 LAKE HOUSTON REDEVELOPMENT AUTHORITY 610 ALLEN BOONE HUMPHRIES ROBINSON LLP 3200 SOUTHWEST FREEWAY SUITE 2600 HOUSTON, TX 77027

**NORTH PARK DRIVE**

**HARDSCAPE LAYOUT**

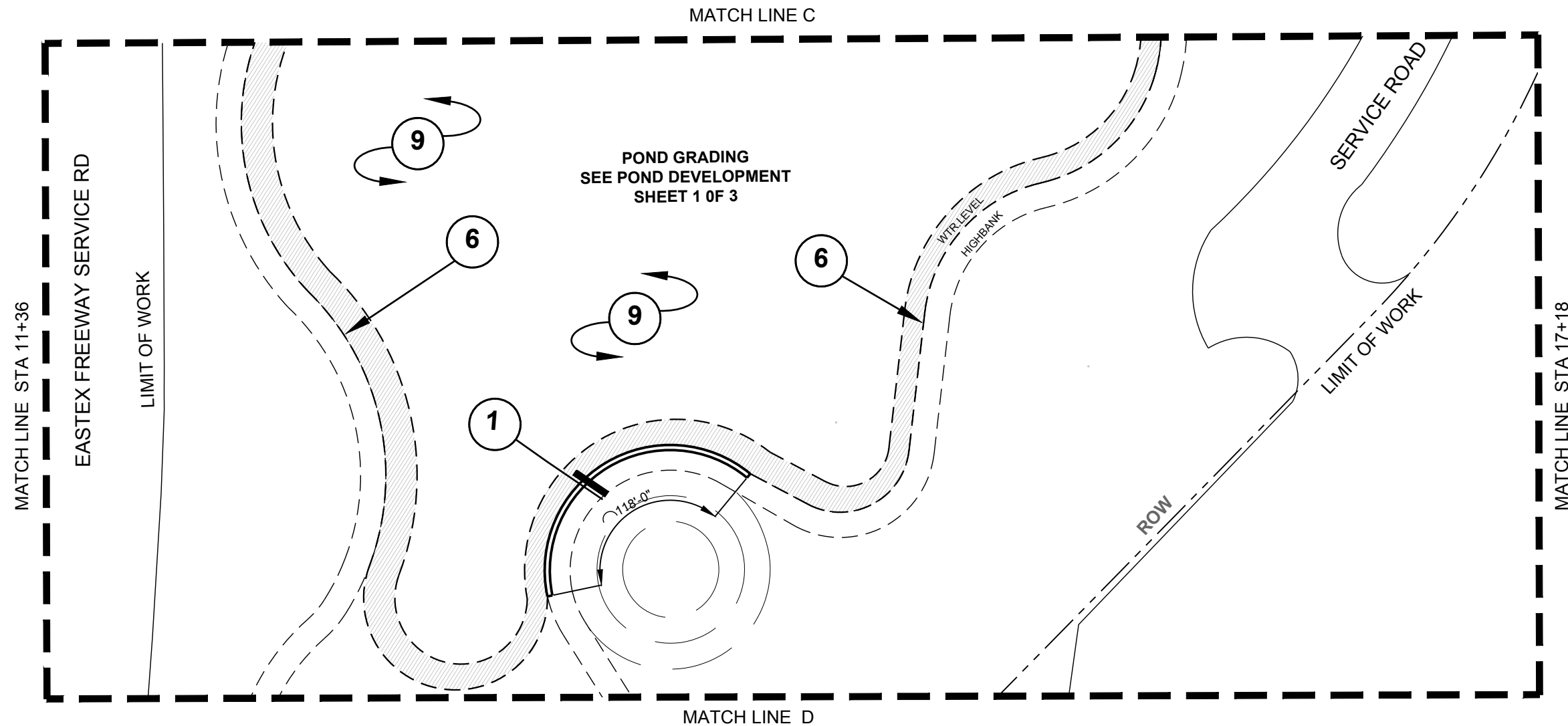
**SHEET 3 OF 17**

DESIGNED:	FED. RD. DIV. No.	STATE	CITY OF HOUSTON WBS	HIGHWAY No.
CHECKED:	6	TEXAS	SEE TITLE SHEET	CS
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.
CHECKED:	HOU	HARRIS	0912	37 232

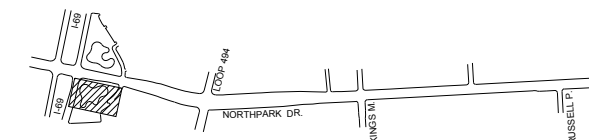
**629**



0 25 50 100  
SCALE: 1"=50'



SHEET QUANTITIES - LAYOUT			
ITEM	DESCRIPTION	UNIT	QNTY.
0529-6033	CONCRETE BAND (LANDSCAPE)	LF	0
5009-6001	STONE MASONRY (FREESTANDING)	LF	0
5009-6002	STONE MASONRY (RETAINING)	LF	118
5009-6003	STONE MASONRY (WITH CAP)	LF	0



INTERIM REVIEW ONLY

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PERMIT PURPOSES.  
RESPONSIBLE LANDSCAPE  
ARCHITECT:  
MICHAEL MAUER  
TEXAS REGISTRATION NO. 1510  
DATE: JANUARY 2021

**LAYOUT PLAN NOTES:**

1. STACKED STONE WALL @ POND EDGE, SEE DETAIL #1, HARDSCAPE DETAILS SHEET 1 OF 3
2. STACKED STONE WALL - FREESTANDING, SEE DETAIL #2, HARDSCAPE DETAILS SHEET 1 OF 3
3. LOW STONE WALL WITH CAST STONE CAP, SEE DETAIL #3, HARDSCAPE DETAILS SHEET 1 OF 3.
4. CONCRETE SIDE PATH, SEE CIVIL ENGINEERING DRAWINGS
5. CONCRETE LANDSCAPE BAND, SEE DETAIL #5, HARDSCAPE DETAILS SHEET 1 OF 3
6. POND EDGE STABILZAION, SEE DETAIL #1, HARDSCAPE DETAILS SHEET 3 OF 3
7. ACCESS RAMP, SEE CIVIL ENGINEERING DRAWINGS.
8. MEDIAN PAVEMENT, SEE CIVIL ENGINEERING DRAWINGS.
9. POND LINER , SEE CIVIL ENGINEERING DRAWINGS.

**GENERAL NOTES:**

- A. SEE LANDSCAPE GENERAL NOTES SHEET 1 OF 1 FOR ADDITIONAL LANDSCAPE LAYOUT INFORMATION

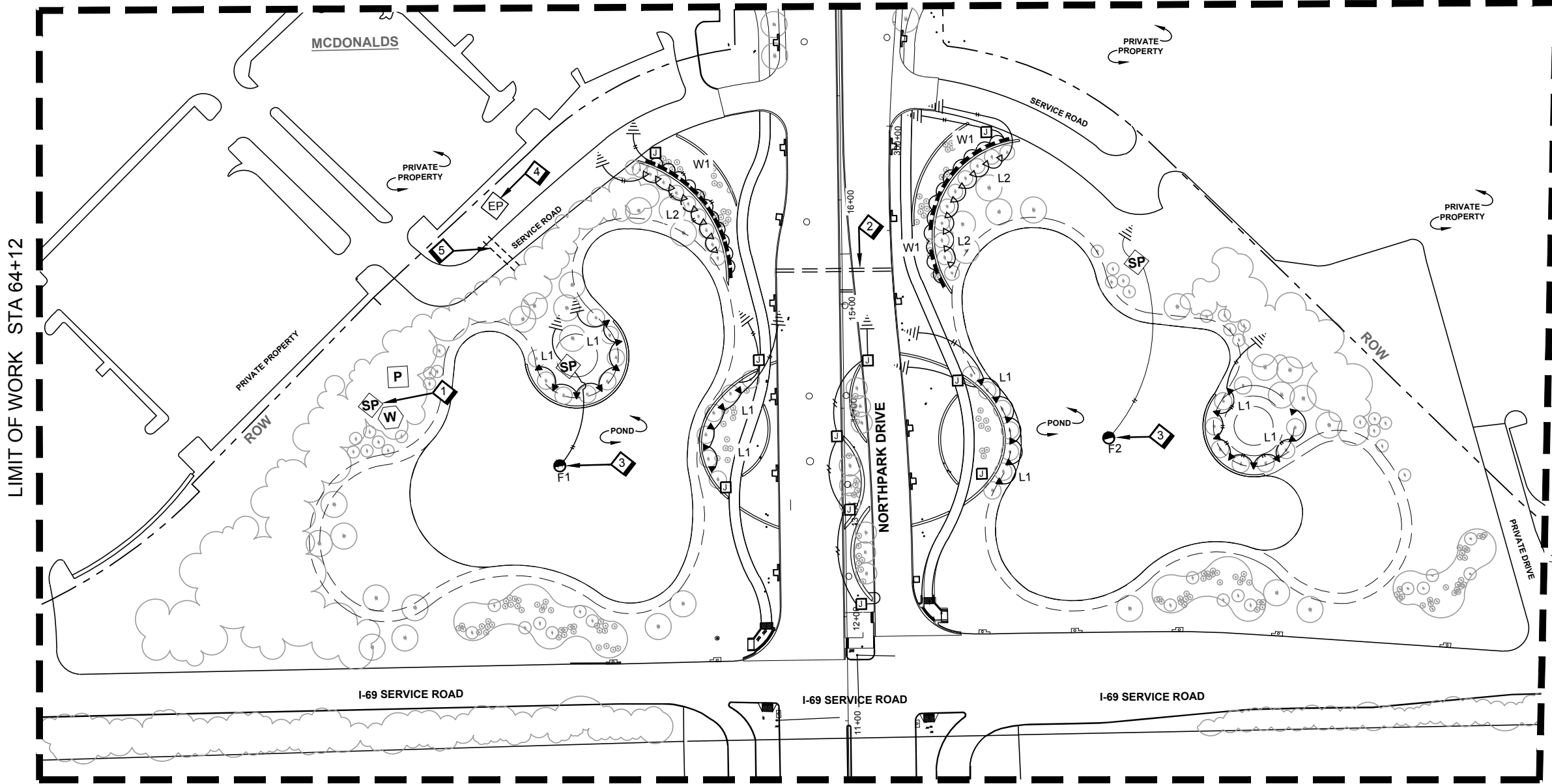
NO.	REVISIONS	BY	DATE
M2L ASSOCIATES, INC. 8955 KATY FWY, SUITE 300 HOUSTON, TX 77024			
HNTB Corporation The HNTB Companies Infrastructure Solutions Firm Registration Number 420			
CITY OF HOUSTON		LAKE HOUSTON REDEVELOPMENT AUTHORITY 60 ALLEN BOONE HUMPHRIES ROBINSON LLP 3200 SOUTHWEST FREEWAY SUITE 2600 HOUSTON, TX 77027	
HOUSTON PUBLIC WORKS			
NORTH PARK DRIVE			
HARDSCAPE LAYOUT			
SHEET 4 OF 17			
DESIGNED:	FED. RD. DIV. No.	STATE	CITY OF HOUSTON WBS
CHECKED:	6	TEXAS	SEE TITLE SHEET
DRAWN:	STATE DISTRICT	COUNTY	SECTION No.
CHECKED:	HOU	HARRIS	0912 37 232
			HIGHWAY No. CS JOB No. SHEET No. <b>630</b>



LIMIT OF WORK



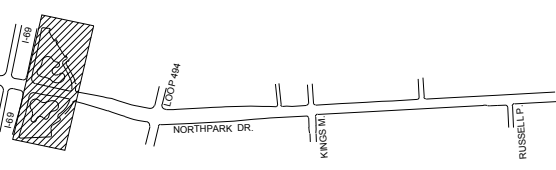
0 30 60 120  
SCALE: 1"=120'



LIMIT OF WORK STA 64+12

LIMIT OF WORK STA 70+02

SHEET QUANTITIES- LIGHTING			
ITEM	DESCRIPTION	UNIT	QNTY.
0624-2014	GROUND BOX TY0 (162922) W/ APRON	EA	20
0618-2012	CONDUIT (PVC)(SCH-40)(1")	LF	1200
0618-2024	CONDUIT (PVC)(SCH-40)(4")(BORE)	LF	40
1014-2003	LANDSCAPE AMENITY (TY1)	EA	2
1014-2004	LANDSCAPE AMENITY (TY2)	EA	27
1014-2005	LANDSCAPE AMENITY (TY3)	EA	27
1014-2006	LANDSCAPE AMENITY (TY4)	EA	35
1014-2007	LANDSCAPE AMENITY (TY5)	EA	10
1014-2008	LANDSCAPE AMENITY (TY6)	EA	1
1014-2009	LANDSCAPE AMENITY (TY7)	EA	1
1014-20010	LANDSCAPE AMENITY (TY8)	EA	1
1014-20011	LANDSCAPE AMENITY (TY9)	EA	1
0620-2012	CONDUIT (NO. 8) INSULATER	LF	12000



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LIMIT OF WORK

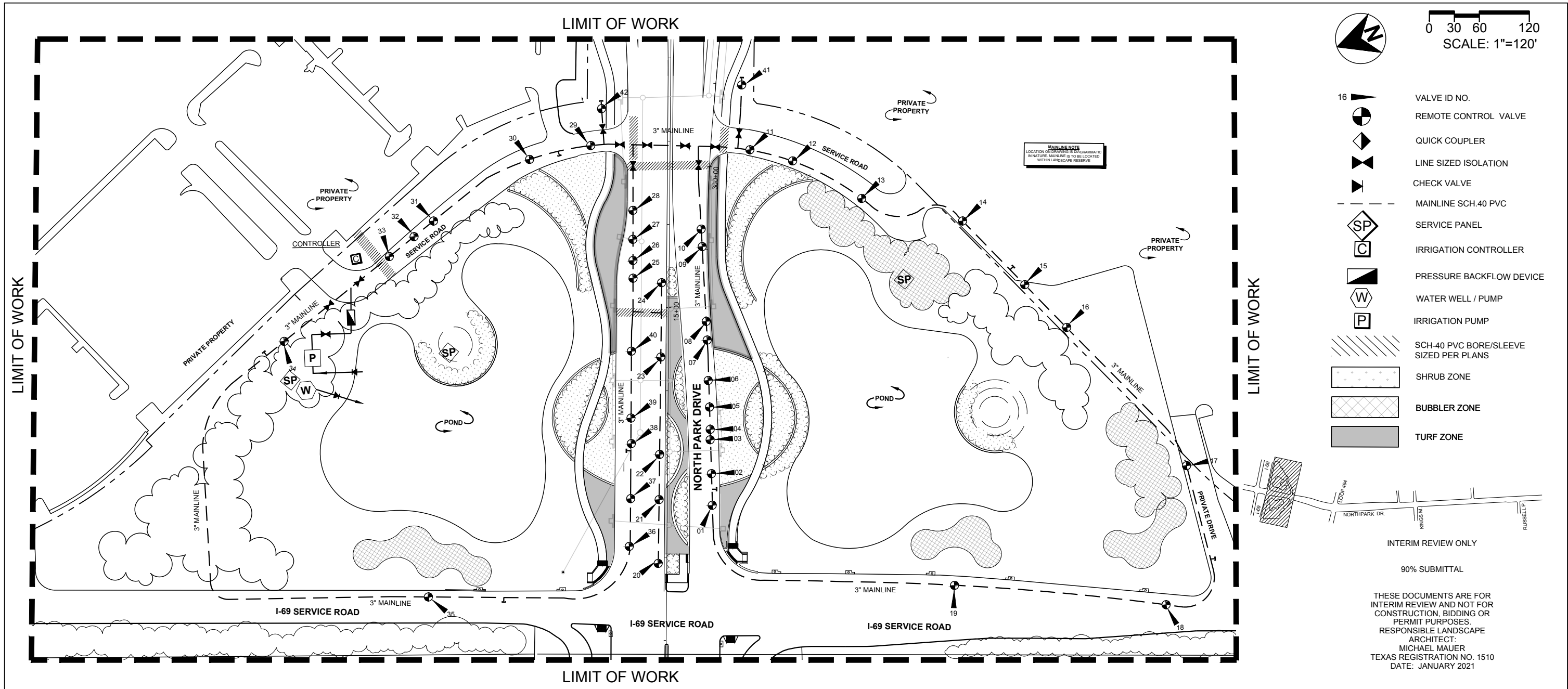
LANDSCAPE LIGHTING FIXTURE						
SYMBOL	TYPE	MODEL	MOUNTING	LAMPS	VOLTAGE	DESCRIPTION
▲	L1	DE-LED-TR-X99-FL-FINISH-9-11-A-ELV-120	POST	LED	120V	TREE UPLIGHT (TY3)
△	L2	HP2-LED-TR-E65-MFL-A9-FINISH-12-11-MT	INGROUND	LED	120V	TREE UPLIGHT (TY2)
■	W1	SA-LED-X53-WW-FINISH-13-11-CV-360SL	PP-J18-TRE20-FINISH-B-SF	LED	120V	LINEAR WALL WASHER (TY4)
□	B1	RB-18-RE1	BOLLARD	NA	120V	DUPLEX OUTLET FOR SEASONAL LIGHTS (TY5)
●	F1-F2	SEE POND AERATION	FIXED	LED	120V	*FOUNTAIN AERATOR/ LIGHTING (TY1)
⊙		SEE WELL PUMP DETAIL				**WELL PUMP (TYP 6)
⬢		ELECTRICAL SERVICE PANEL SEE SITE MAP				ELECTRICAL SERVICE PANEL (TY7)
⊠		REFERENCE IRRIGATION DETAIL SHEET 7 OF 7				IRRIGATION PUMP (TY8)
⊞		REFERENCE MEP OR OTHER DISCIPLINES				ELECTRICAL SUB PANEL (TY9)
—		NO. 8 INSULATER				ELECTRIC CONDUIT WITH CONDUCTORS
≡		SCH-40 PVC SLEEVE/BORE				ELECTRIC CONDUIT WITH CONDUCTORS IN SLEEVE OR BORE

\*NOT IN LIGHTING PACKAGE. SEE AERATION DETAILS.  
\*\* FOR POND WATER SUPPLEMENT AND DIRECT CONNECTION TO IRRIGATION SYSTEM.

PLAN NOTES:

- ① ELECTRICAL SUB PANEL. SEE SITE MEP DRAWINGS.
- ② 4" SCH 40 ELECTRICAL CONDUIT WITH PULL STRING. COORDINATE WITH S
- ③ FLOATING POND AERATION FOUNTAIN. SEE POND DEVELOPMENT PLANS.
- ④ ELECTRICAL SERVICE PANEL. SEE SITE MEP DRAWINGS.
- ⑤ 4" SCH 40 BORE & SLEEVE W/ PULL STRING. SEE IRRIGATION DETAILS.

NO.		REVISIONS		BY	DATE
M2L		M2L ASSOCIATES, INC. 8955 KATY FWY, SUITE 300 HOUSTON, TX 77024			
HNTB		HNTB Corporation The HNTB Companies Infrastructure Solutions Firm Registration Number 420			
CITY OF HOUSTON HOUSTON PUBLIC WORKS		LAKE HOUSTON REDEVELOPMENT AUTHORITY 20 ALLEN BOONE HUMPHRIES ROBINSON LLP 3200 SOUTHWEST FREEWAY SUITE 2600 HOUSTON, TX 77027			
<b>NORTH PARK DRIVE</b>					
<b>LANDSCAPE LIGHTING PLAN</b>					
<b>SHEET 1 OF 1</b>					
DESIGNED:	FED. RD. DIV. No.	STATE	CITY OF HOUSTON WBS	HIGHWAY No.	
CHECKED:	6	TEXAS	SEE TITLE SHEET	CS	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.
CHECKED:	HOU	HARRIS	0912	37	232
					<b>647</b>


















**IRRIGATION ZONE LEGEND**

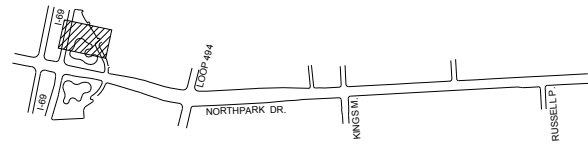
STA	DESCRIPTION	SIZE	STA	DESCRIPTION	SIZE	STA	DESCRIPTION	SIZE
01	TURF ZONE	1.5	15	SHRUB ZONE	1.5	29	TURF ZONE	1.5
02	SHRUB ZONE	1.0	16	BUBBLER ZONE	1.5	30	SHRUB ZONE	1.5
03	SHRUB ZONE	1.5	17	BUBBLER ZONE	1.5	31	SHRUB ZONE	1.5
04	SHRUB ZONE	1.5	18	BUBBLER ZONE	1.5	32	BUBBLER ZONE	1.5
05	SHRUB ZONE	1.5	19	BUBBLER ZONE	1.5	33	SHRUB ZONE	1.5
06	SHRUB ZONE	1.5	20	SHRUB ZONE	1.0	34	BUBBLER ZONE	1.5
07	BUBBLER ZONE	1.5	21	TURF ZONE	1.5	35	BUBBLER ZONE	1.5
08	TURF ZONE	1.5	22	SHRUB ZONE	1.5	36	TURF ZONE	1.5
09	TURF ZONE	1.5	23	TURF ZONE	1.0	37	TURF ZONE	1.5
10	TURF ZONE	1.5	24	SHRUB ZONE	1.5	38	SHRUB ZONE	1.5
11	SHRUB ZONE	1.5	25	BUBBLER ZONE	1.5	39	SHURB ZONE	1.0
12	SHRUB ZONE	1.5	26	SHRUB ZONE	1.5	40	SHRUB ZONE	1.5
13	BUBBLER ZONE	1.5	27	SHRUB ZONE	1.5	41	BUBBLER ZONE	1.0
14	BUBBLER ZONE	1.5	28	SHRUB ZONE	1.5	42	BUBBLER ZONE	1.5

M2L ASSOCIATES, INC. 8955 KATY FWY, SUITE 300 HOUSTON, TX 77024		HNTB Corporation The HNTB Companies Infrastructure Solutions Firm Registration Number 420	
CITY OF HOUSTON HOUSTON PUBLIC WORKS		LAKE HOUSTON REDEVELOPMENT AUTHORITY 20 ALLEN BOONE HUMPHRIES ROBINSON LLP 3200 SOUTHWEST FREEWAY SUITE 2600 HOUSTON, TX 77027	
<b>NORTH PARK DRIVE</b>			
<b>IRRIGATION MAINLINE DIAGRAM</b>			
<b>SHEET 1 OF 1</b>			
DESIGNED:	FED. RD. DIV. No. 6	STATE TEXAS	CITY OF HOUSTON WBS
CHECKED:	STATE DISTRICT HOU	COUNTY HARRIS	SECTION No. 0912
DRAWN:	CONTROL No. 37	SECTION No. 37	JOB No. 232
CHECKED:			SHEET No. 650



0 25 50 100  
SCALE: 1"=50'

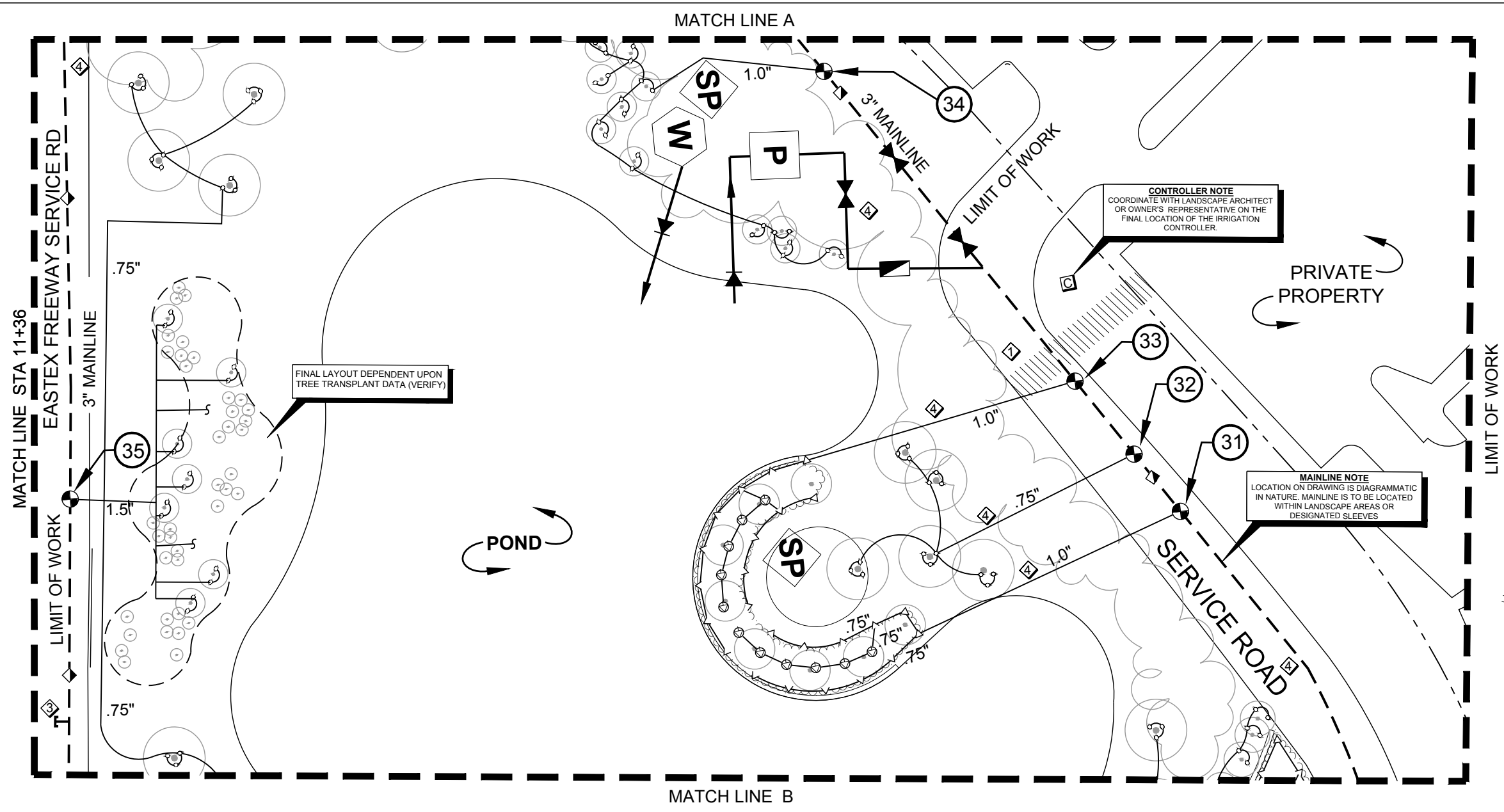
-  VALVE ID NO.
-  REMOTE CONTROL VALVE
-  QUICK COUPLER
-  LINE SIZED ISOLATION VALVE
-  CHECK VALVE (LINE SIZE)
-  MAINLINE (SCH-40 PVC)
-  LATERAL LINE
-  IRRIGATION CONTROLLER
-  PRESSURE BACKFLOW DEVICE
-  WELL PUMP (SEE MEP DRAWINGS)
-  IRRIGATION PUMP
-  SLEEVE / BORE
-  TREE WATERING BAG
-  TREE BUBBLER
-  ELECTRICAL SERVICE PANEL



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RESPONSIBLE LANDSCAPE ARCHITECT:  
MICHAEL MAUER  
TEXAS REGISTRATION NO. 1510  
DATE: JANUARY 2021



MATCH LINE STA 11+36  
EASTEX FREEWAY SERVICE RD  
3" MAINLINE  
LIMIT OF WORK

MATCH LINE A





MATCH LINE B

LIMIT OF WORK

PRIVATE PROPERTY

POND

**IRRIGATION PLAN NOTES:**

-  PROPOSED 4" SLEEVE
-  PROPOSED 6" SLEEVE
-  EXPANSION STUB, SEE DETAIL 6, SHEET 2 OF 7
-  HAND DIG ONLY WHEN WORKING WITHIN EXISTING TREE CANOPY

**IRRIGATION NOTE:**  
A. SEE LANDSCAPE GENERAL NOTES SHEET 1 OF 1 FOR ADDITIONAL IRRIGATION INFORMATION  
B. SEE IRRIGATION DETAILS SHEET 5 OF 7 FOR PLAN LEGEND

**IRRIGATION VALVE KEY  
NORTH R.O.W**

ID	SIZE	GPM	APPLICATION
31	1.5"	34.2	SHRUB ZONE
32	1.5"	8.0	BUBBLER ZONE
33	1.5"	35.3	SHRUB ZONE
34	1.5"	15.5	BUBBLER ZONE
35	1.5"	35.6	BUBBLER ZONE

\* IRRIGATION LATERAL LINES TO BE CLASS 200-PVC AND SIZED PER TABLE BELOW.

PIPE SIZING	
GPM	PIPE
0-10	.75"
11-16	1.0"
17-26	1.25"
36-55	2.0"
58-80	2.5"

NO.	REVISIONS	BY	DATE

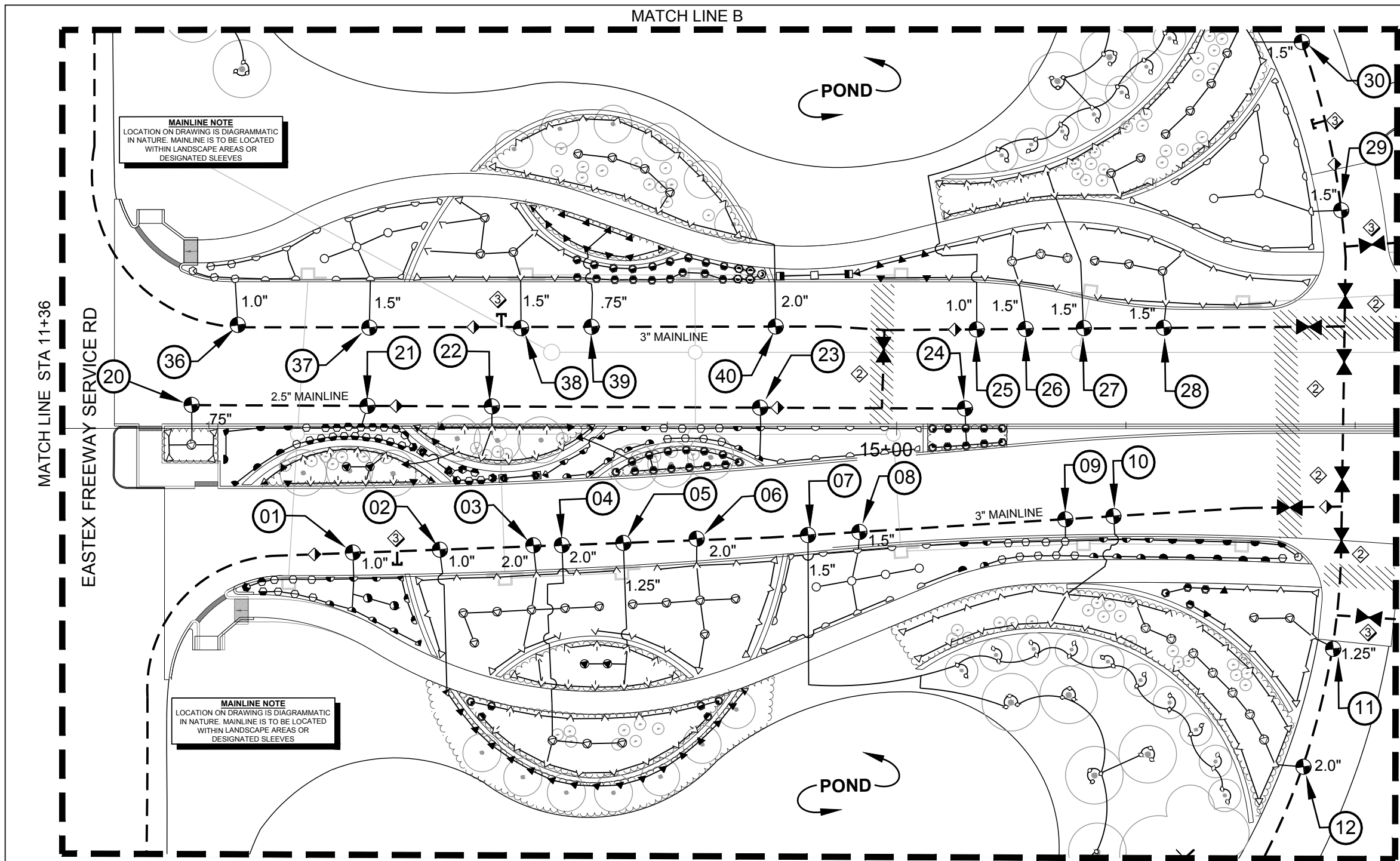
**M2L** M2L ASSOCIATES, INC.  
8965 KATY FWY, SUITE 300  
HOUSTON, TX 77024

**HNTB** HNTB Corporation  
The HNTB Companies  
Infrastructure Solutions  
Firm Registration Number 420

CITY OF HOUSTON LAKE HOUSTON REDEVELOPMENT AUTHORITY  
800 ALLEN BOONE HUMPHRIES  
ROBINSON LLP  
3200 SOUTHWEST FREEWAY  
SUITE 2600 HOUSTON, TX 77027

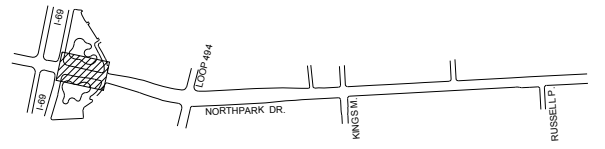
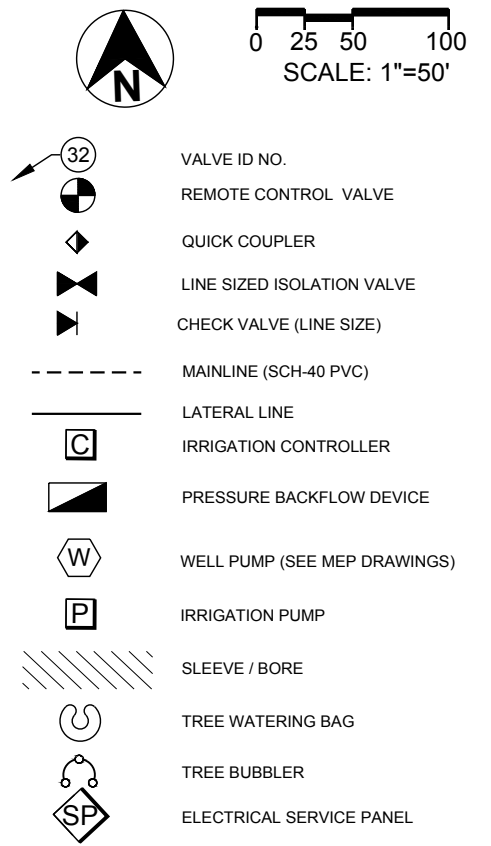
NORTH PARK DRIVE  
  
IRRIGATION PLAN  
  
SHEET 2 OF 16

DESIGNED:	FED. RD. DIV. No.	STATE	CITY OF HOUSTON WBS	HIGHWAY No.
CHECKED:	6	TEXAS	SEE TITLE SHEET	CS
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.
CHECKED:	HOU	HARRIS	0912	37
				JOB No. 232
				SHEET No. 652



**MAINLINE NOTE**  
LOCATION ON DRAWING IS DIAGRAMMATIC IN NATURE. MAINLINE IS TO BE LOCATED WITHIN LANDSCAPE AREAS OR DESIGNATED SLEEVES

**MAINLINE NOTE**  
LOCATION ON DRAWING IS DIAGRAMMATIC IN NATURE. MAINLINE IS TO BE LOCATED WITHIN LANDSCAPE AREAS OR DESIGNATED SLEEVES



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RESPONSIBLE LANDSCAPE ARCHITECT:  
MICHAEL MAUER  
TEXAS REGISTRATION NO. 1510  
DATE: JANUARY 2021

**IRRIGATION VALVE KEY**

SOUTH OF R.O.W				MEDIAN				NORTH R.O.W			
ID	SIZE	GPM	APPLICATION	ID	SIZE	GPM	APPLICATION	ID	SIZE	GPM	APPLICATION
01	1.0"	14.7	TURF ZONE	20	1.0"	7.4	SHRUB ZONE	25	1.0"	15.0	BUBBLER ZONE
02	1.0"	14.1	SHRUB ZONE	21	1.5"	21.0	TURF ZONE	26	1.5"	31.0	SHRUB ZONE
03	2.0"	40.0	SHRUB ZONE	22	2.0"	40.5	SHRUB ZONE	27	1.5"	30.0	SHRUB ZONE
04	2.0"	37.9	SHRUB ZONE	23	1.5"	27.5	TURF ZONE	28	1.5"	31.1	SHRUB ZONE
05	1.5"	18.0	SHRUB ZONE	24	1.0"	3.8	SHRUB ZONE	29	1.5"	32.6	TURF ZONE
06	2.0"	36.3	SHRUB ZONE					30	1.5"	33.5	SHRUB ZONE
07	1.5"	18.0	BUBBLER ZONE					36	1.0"	12.0	TURF ZONE
08	1.5"	33.5	TURF ZONE					37	1.5"	29.8	TURF ZONE
09	1.5"	32.0	TURF ZONE					38	1.5"	35.2	SHRUB ZONE
10	1.5"	35.0	SHRUB ZONE					39	1.0"	9.0	SHRUB ZONE
11	1.5"	26.0	SHRUB ZONE					40	2.0"	41.0	SHRUB ZONE
12	2.0"	37.2	SHRUB ZONE								

- IRRIGATION PLAN NOTES:**
- ① PROPOSED 4" SLEEVE
  - ② PROPOSED 6" SLEEVE
  - ③ EXPANSION STUB, SEE DETAIL 6, SHEET 2 OF 7
  - ④ HAND DIG ONLY WHEN WORKING WITHIN EXISTING TREE CANOPY

**IRRIGATION NOTE:**  
A. SEE LANDSCAPE GENERAL NOTES SHEET 1 OF 1 FOR ADDITIONAL IRRIGATION INFORMATION  
B. SEE IRRIGATION DETAILS SHEET 5 OF 7 FOR PLAN LEGEND

\* IRRIGATION LATERAL LINES TO BE CLASS 200-PVC AND SIZED PER TABLE BELOW.

**PIPE SIZING**

GPM	PIPE
0-10	.75"
11-16	1.0"
17-26	1.25"
36-55	2.0"
58-80	2.5"

NO.	REVISIONS	BY	DATE

MZL ASSOCIATES, INC.  
8955 KATY FWY, SUITE 300  
HOUSTON, TX 77024

**HNTB**  
HNTB Corporation  
The HNTB Companies  
Infrastructure Solutions  
Firm Registration Number 420

CITY OF HOUSTON  
HOUSTON PUBLIC WORKS

LAKE HOUSTON REDEVELOPMENT AUTHORITY  
610 ALLEN BOONE HUMPHRIES  
ROBINSON LLP  
3200 SOUTHWEST FREEWAY  
SUITE 2600 HOUSTON, TX 77027

**NORTHPARK DRIVE**

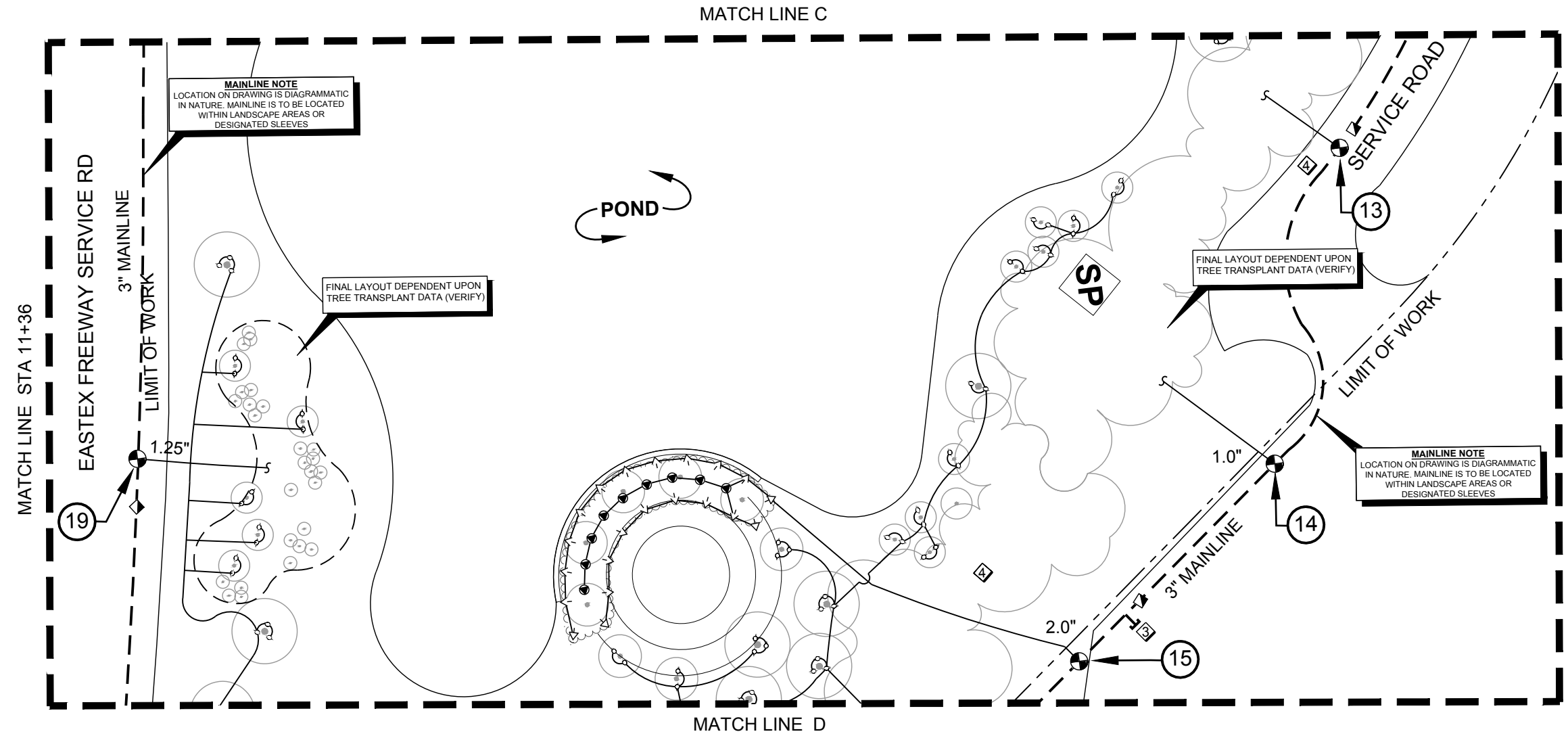
**IRRIGATION PLAN**

**SHEET 3 OF 16**

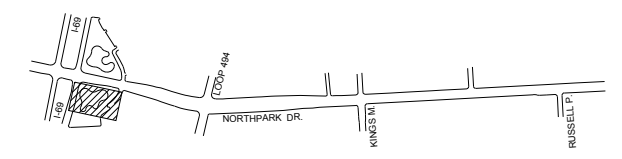
DESIGNED:	FED. RD. DIV. No.	STATE	CITY OF HOUSTON WBS	HIGHWAY No.
CHECKED:	6	TEXAS	SEE TITLE SHEET	CS
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.
CHECKED:	HOU	HARRIS	0912	37
				JOB No. 232
				SHEET No. 653



0 25 50 100  
SCALE: 1"=50'



- VALVE ID NO.
- REMOTE CONTROL VALVE
- QUICK COUPLER
- LINE SIZED ISOLATION VALVE
- CHECK VALVE (LINE SIZE)
- MAINLINE (SCH-40 PVC)
- LATERAL LINE
- IRRIGATION CONTROLLER
- PRESSURE BACKFLOW DEVICE
- WELL PUMP (SEE MEP DRAWINGS)
- IRRIGATION PUMP
- SLEEVE / BORE
- TREE WATERING BAG
- TREE BUBBLER
- ELECTRICAL SERVICE PANEL



INTERIM REVIEW ONLY  
90% SUBMITTAL

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RESPONSIBLE LANDSCAPE ARCHITECT:  
MICHAEL MAUER  
TEXAS REGISTRATION NO. 1510  
DATE: JANUARY 2021

\* IRRIGATION LATERAL LINES TO BE CLASS 200-PVC AND SIZED PER TABLE BELOW.

PIPE SIZING	
GPM	PIPE
0-10	.75"
11-16	1.0"
17-26	1.25"
36-55	2.0"
58-80	2.5"

**IRRIGATION VALVE KEY**  
SOUTH OF R.O.W

ID	SIZE	GPM	APPLICATION
13	1.5"	TBD	BUBBLER ZONE
14	1.5"	TBD	BUBBLER ZONE
15	2.0"	40.5	SHRUB ZONE
19	1.5"	22.5	BUBBLER ZONE

**IRRIGATION PLAN NOTES:**

- PROPOSED 4" SLEEVE
- PROPOSED 6" SLEEVE
- EXPANSION STUB, SEE DETAIL 6, SHEET 2 OF 7
- HAND DIG ONLY WHEN WORKING WITHIN EXISTING TREE CANOPY

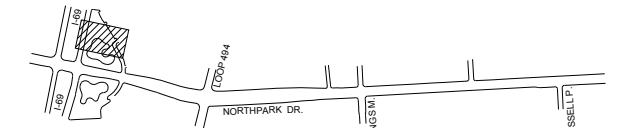
**IRRIGATION NOTE:**  
A. SEE LANDSCAPE GENERAL NOTES SHEET 1 OF 1 FOR ADDITIONAL IRRIGATION INFORMATION  
B. SEE IRRIGATION DETAILS SHEET 5 OF 7 FOR PLAN LEGEND

NO.		REVISIONS		BY	DATE
M2L		M2L ASSOCIATES, INC. 8955 KATY FWY, SUITE 300 HOUSTON, TX 77024			
HNTB		HNTB Corporation The HNTB Companies Infrastructure Solutions Firm Registration Number 420			
CITY OF HOUSTON HOUSTON PUBLIC WORKS		LAKE HOUSTON REDEVELOPMENT AUTHORITY 60 ALLEN BOONE HUMPHRIES ROBINSON LLP 3200 SOUTHWEST FREEWAY SUITE 2600 HOUSTON, TX 77027			
<b>NORTHPARK DRIVE</b>					
<b>IRRIGATION PLAN</b>					
<b>SHEET 4 OF 16</b>					
DESIGNED:	FED. RD. DIV. No.	STATE	CITY OF HOUSTON WBS	HIGHWAY No.	
CHECKED:	6	TEXAS	SEE TITLE SHEET	CS	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.
CHECKED:	HOU	HARRIS	0912	37	232
					<b>654</b>

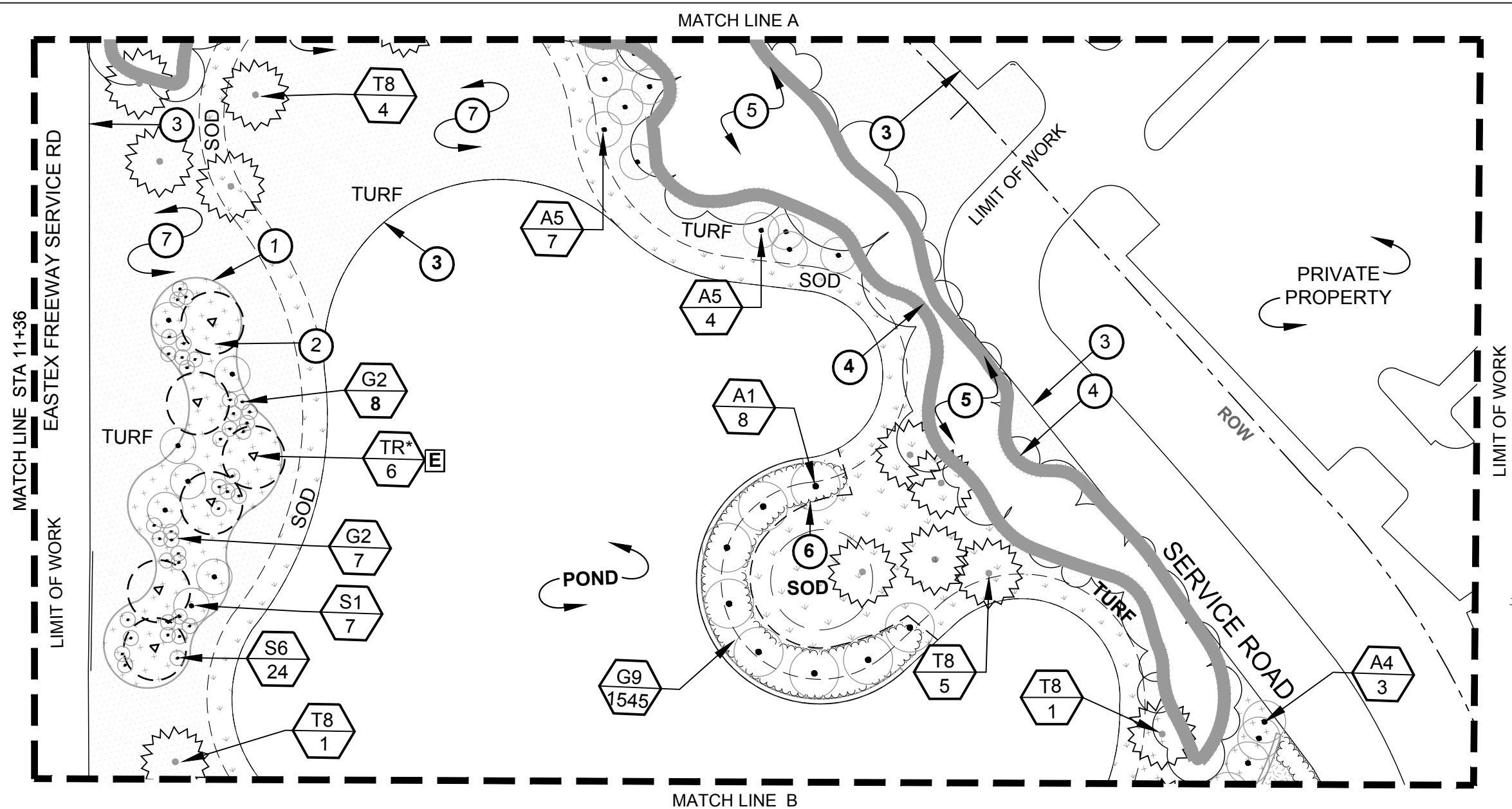


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SCALE: 1"=50'




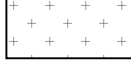
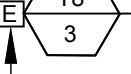
SHEET QUANTITIES - PLANTING			
ITEM	DESCRIPTION	UNIT	QNTY.
0161-6011	GENERAL USE COMPOST (1")	SY	5320
0162-2002	BLOCK SODDING	SY	4422.7
0164-6023	CELL FBR MULCH (PERM)(RURAL)(CLAY)	SY	897.3
0192-6012	MULCH (BARK)	CY	1.0
0192-6013	MULCH (PINE)	CY	202.6
0166-6001	FERTILIZER (TURF/SOD)	SY	5320
0192-6002	PLANT MATERIAL (1 GALLON)	EA	1545
0192-6003	PLANT MATERIAL (3 GALLON)	EA	46
0192-6007	PLANT MATERIAL (45 GALLON)	EA	22
0192-6008	PLANT MATERIAL (100 GALLON)	EA	11
0192-6063	PLANT BED PREP (TYPE I)	SY	33
0192-6064	PLANT BED PREP (TYPE II)	SY	4422.7
0192-6065	PLANT BED PREP (TYPE III)	SY	83
0192-6066	PLANT BED PREP (TYPE IV)	SY	897
1006-6001	LANDSCAPE SOIL AMENDMENT (TYPE I)	EA	33
1006-6002	LANDSCAPE SOIL AMENDMENT (TYPE II)	SY	897
1006-6003	LANDSCAPE SOIL AMENDMENT (TYPE III)	SY	33
1006-6004	LANDSCAPE SOIL AMENDMENT (TYPE IV)	SY	9.2
0192-6015	LANDSCAPE EDGE	LF	176.5
0192-6001	PLANT MATERIAL (4" CONT.)	EA	0



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RESPONSIBLE LANDSCAPE ARCHITECT:  
MICHAEL MAUER  
TEXAS REGISTRATION NO. 1510  
DATE: JANUARY 2021



**DRAWING LEGEND:**

-  **(TURF) TYPE A SEEDING** - CELLULOSE FIBER MULCH SEEDING GENERAL PURPOSE SEEDING (0164-6023)
-  **(SOD) BLOCK SODDING** - SOLID SODDING (0162-2002)
-  **TYPE A MULCH** - HARDWOOD BARK MULCH (0192-6012)
-  **TYPE B MULCH** - PINE STRAW MULCH (0192-6013)
-  **PLANT TYPE**  
**PLANT QUANTITY**  
**TRANSPLANT ZONE**

**PLAN NOTES:**

1. SHOVEL CUT PLANTER EDGE WITH ONE (1) ROW OF SOLID SOD CONTINUOUS. **SEE PLANTING & ESTABLISHMENT SHEET 2 OF 9**
2. 4" PINE STRAW MULCH BED CONTINUOUS
3. ONE (1) ROW OF SOLID SOD CONTINUOUS ALONG ALL PAVEMENT EDGES.
4. 6'-0" WIDE STRIP OF PINE STRAW MULCH INSIDE CANOPY DRIP LINE (FIELD VERIFY)
5. NATIVE UNDERSTORY. **SEE TREE PRESERVATION AND TRANSPLANTING PLAN**
6. METAL EDGING. **SEE PLANTING AND ESTABLISHMENT SHEET 2 OF 9**
7. CELLULAR FIBER MULCH SEEDING (0164-6023)
8. EXISTING TREES TO BE PRESERVED.
9. MOW BAND. **SEE ENGINEERING DRAWINGS.**




\* HAND SELECTED BY LA PRIOR TO TRANSPLANT FROM AVAILABLE ON-SITE TRANSPLANT STOCK.

**GENERAL NOTES:**

- A. SEE LANDSCAPE GENERAL NOTES SHEET 1 OF 2 FOR ADDITIONAL PLANTING INFORMATION
- B. SEE PLANTING & ESTABLISHMENT SHEET 3 OF 9 FOR PLANT LIST.
- C. SEE FERTILIZER, SEED, SOD, STRAW COMPOST, AND WATER FOR REQUIREMENT OF TURF INSTALLATION FOR CONSTRUCTED SURFACES.

**TREE TRANSPLANT KEY:**

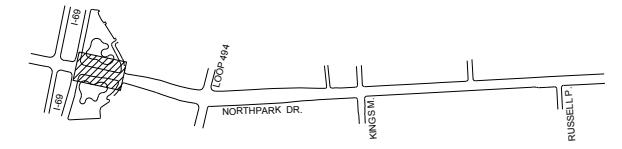
- |                 |                 |                 |
|-----------------|-----------------|-----------------|
| <b>A</b> ZONE A | <b>D</b> ZONE D | <b>G</b> ZONE G |
| <b>B</b> ZONE B | <b>E</b> ZONE E | <b>H</b> ZONE H |
| <b>C</b> ZONE C | <b>F</b> ZONE F | <b>I</b> ZONE I |

NO.	REVISIONS	BY	DATE
 <b>M2L ASSOCIATES, INC.</b> 8965 KATY FWY, SUITE 300 HOUSTON, TX 77024  <b>HNTB</b> HNTB Corporation The HNTB Companies Infrastructure Solutions Firm Registration Number 420 <b>CITY OF HOUSTON</b> HOUSTON PUBLIC WORKS  <b>LAKE HOUSTON REDEVELOPMENT AUTHORITY</b> 600 ALLEN BOONE HUMPHRIES ROBINSON LLP 3200 SOUTHWEST FREEWAY SUITE 2600 HOUSTON, TX 77027 <b>NORTH PARK DRIVE</b> <b>PLANTING PLAN</b> <b>SHEET 2 OF 17</b>			
DESIGNED:	FED. RD. DIV. No.	STATE	CITY OF HOUSTON WBS
CHECKED:	6	TEXAS	SEE TITLE SHEET
DRAWN:	STATE DISTRICT	COUNTY	CONTROL SECTION No.
CHECKED:	HOU	HARRIS	0912 37 232
			HIGHWAY No. CS
			JOB No. SHEET No. 675



0 25 50 100  
SCALE: 1"=50'

SHEET QUANTITIES - PLANTING			
ITEM	DESCRIPTION	UNIT	QNTY.
0161-6011	GENERAL USE COMPOST (1")	SY	5895.9
0162-2002	BLOCK SODDING	SY	3855
0164-6023	CELL FBR MULCH (PERM)(RURAL)(CLAY)	SY	2041
0192-6012	MULCH (BARK)	CY	215.5
0192-6013	MULCH (PINE)	CY	0
0166-6001	FERTILIZER (TURF/SOD)	SY	5895.9
0192-6002	PLANT MATERIAL (1 GALLON)	EA	9566
0192-6003	PLANT MATERIAL (3 GALLON)	EA	579
0192-6007	PLANT MATERIAL (45 GALLON)	EA	17
0192-6008	PLANT MATERIAL (100 GALLON)	EA	47
0192-6063	PLANT BED PREP (TYPE I)	SY	79.4
0192-6064	PLANT BED PREP (TYPE II)	SY	3885
0192-6065	PLANT BED PREP (TYPE III)	SY	17476.5
0192-6066	PLANT BED PREP (TYPE IV)	SY	2040.9
1006-6001	LANDSCAPE SOIL AMENDMENT (TYPE I)	EA	64
1006-6002	LANDSCAPE SOIL AMENDMENT (TYPE II)	SY	2040.9
1006-6003	LANDSCAPE SOIL AMENDMENT (TYPE III)	SY	79.4
1006-6004	LANDSCAPE SOIL AMENDMENT (TYPE IV)	SY	1941.8
0192-6015	LANDSCAPE EDGE	LF	112
0192-6001	PLANT MATERIAL (4" CONT.)	EA	1715



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RESPONSIBLE LANDSCAPE ARCHITECT:  
MICHAEL MAUER  
TEXAS REGISTRATION NO. 1510  
DATE: JANUARY 2021

NO.	REVISIONS	BY	DATE

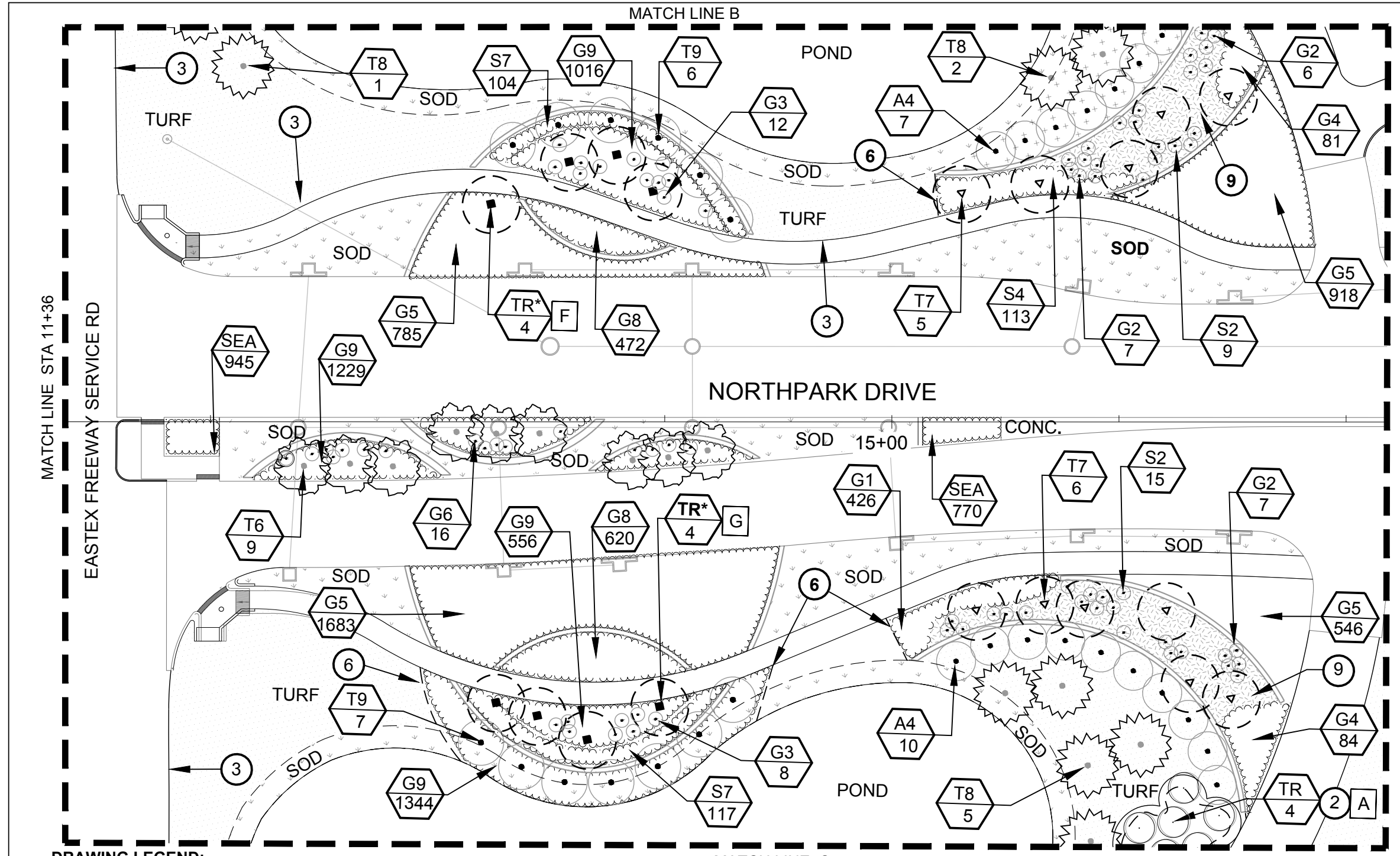
M2L M2L ASSOCIATES, INC.  
8955 KATY FWY, SUITE 300  
HOUSTON, TX 77024

**HNTB**  
HNTB Corporation  
The HNTB Companies  
Infrastructure Solutions  
Firm Registration Number 420

CITY OF HOUSTON  
HOUSTON PUBLIC WORKS  
LAKE HOUSTON REDEVELOPMENT AUTHORITY  
60 ALLEN BOONE HUMPHRIES  
ROBINSON LLP  
3200 SOUTHWEST FREEWAY  
SUITE 2600 HOUSTON, TX 77027

**NORTH PARK DRIVE**  
**PLANTING PLAN**  
**SHEET 3 OF 17**

DESIGNED:	FED. DIV. No.	RD. No.	STATE	CITY OF HOUSTON WBS	HIGHWAY No.
CHECKED:	6		TEXAS	SEE TITLE SHEET	CS
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.
CHECKED:	HOU	HARRIS	0912	37	232



**DRAWING LEGEND:**

- (TURF) TYPE A SEEDING** - CELLULOSE FIBER MULCH SEEDING GENERAL PURPOSE SEEDING (0164-6023)
- (SOD) BLOCK SODDING** - SOLID SODDING (0162-2002)
- TYPE A MULCH** - HARDWOOD BARK MULCH (0192-6012)
- TYPE B MULCH** - PINE STRAW MULCH (0192-6013)
- PLANT TYPE**
- PLANT QUANTITY**
- TRANSPLANT ZONE**

**PLAN NOTES:**

1. SHOVEL CUT PLANTER EDGE WITH ONE (1) ROW OF SOLID SOD CONTINUOUS. **SEE PLANTING & ESTABLISHMENT SHEET 2 OF 9**
2. 4" PINE STRAW MULCH BED CONTINUOUS
3. ONE (1) ROW OF SOLID SOD CONTINUOUS ALONG ALL PAVEMENT EDGES.
4. 6'-0" WIDE STRIP OF PINE STRAW MULCH INSIDE CANOPY DRIP LINE (FIELD VERIFY)
5. NATIVE UNDERSTORY. **SEE TREE PRESERVATION AND TRANSPLANTING PLAN**
6. METAL EDGING. **SEE PLANTING AND ESTABLISHMENT SHEET 2 OF 9**
7. CELLULAR FIBER MULCH SEEDING (0164-6023)
8. EXISTING TREES TO BE PRESERVED.
9. MOW BAND. **SEE ENGINEERING DRAWINGS.**

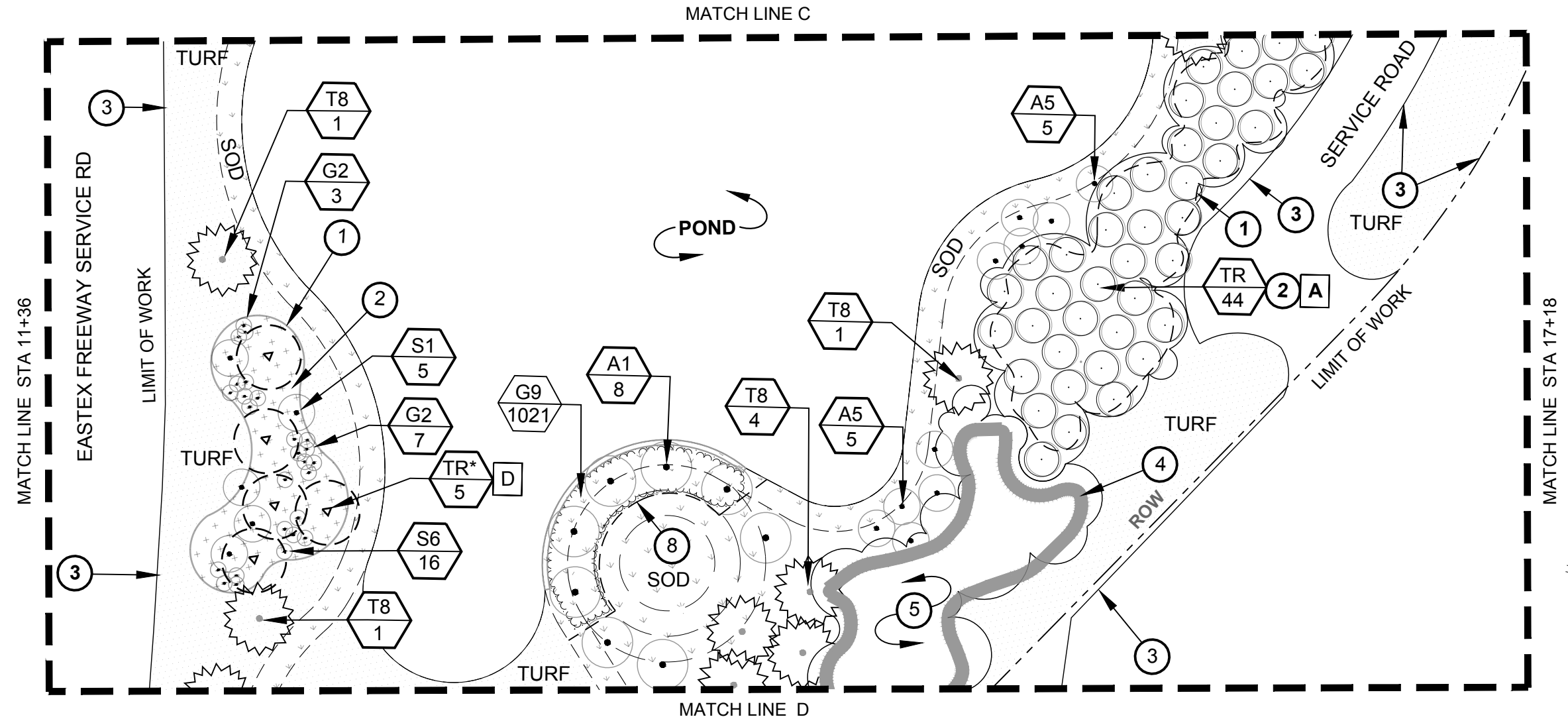
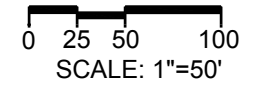
\* HAND SELECTED BY LA PRIOR TO TRANSPLANT FROM AVAILABLE ON-SITE TRANSPLANT STOCK.

**GENERAL NOTES:**

- A. SEE LANDSCAPE GENERAL NOTES SHEET 1 OF 2 FOR ADDITIONAL PLANTING INFORMATION
- B. SEE PLANTING & ESTABLISHMENT SHEET 3 OF 9 FOR PLANT LIST.
- C. SEE FERTILIZER, SEED, SOD, STRAW COMPOST, AND WATER FOR REQUIREMENT OF TURF INSTALLATION FOR CONSTRUCTED SURFACES.

**TREE TRANSPLANT KEY:**

- |                 |                 |                 |
|-----------------|-----------------|-----------------|
| <b>A</b> ZONE A | <b>D</b> ZONE D | <b>G</b> ZONE G |
| <b>B</b> ZONE B | <b>E</b> ZONE E | <b>H</b> ZONE H |
| <b>C</b> ZONE C | <b>F</b> ZONE F | <b>I</b> ZONE I |






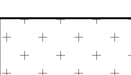
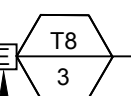
SHEET QUANTITIES - PLANTING			
ITEM	DESCRIPTION	UNIT	QNTY.
0161-6011	GENERAL USE COMPOST (1")	SY	4050.3
0162-2002	BLOCK SODDING	SY	2991.6
0164-6023	CELL FBR MULCH (PERM)(RURAL)(CLAY)	SY	1058.8
0192-6012	MULCH (BARK)	CY	0
0192-6013	MULCH (PINE)	CY	99.1
0166-6001	FERTILIZER (TURF/SOD)	SY	4050.3
0192-6002	PLANT MATERIAL (1 GALLON)	EA	1021
0192-6003	PLANT MATERIAL (3 GALLON)	EA	30
0192-6007	PLANT MATERIAL (45 GALLON)	EA	18
0192-6008	PLANT MATERIAL (100 GALLON)	EA	7
0192-6063	PLANT BED PREP (TYPE I)	SY	24.2
0192-6064	PLANT BED PREP (TYPE II)	SY	2991.6
0192-6065	PLANT BED PREP (TYPE III)	SY	0
0192-6066	PLANT BED PREP (TYPE IV)	SY	1058.8
1006-6001	LANDSCAPE SOIL AMENDMENT (TYPE I)	EA	25
1006-6002	LANDSCAPE SOIL AMENDMENT (TYPE II)	SY	1058.8
1006-6003	LANDSCAPE SOIL AMENDMENT (TYPE III)	SY	24.2
1006-6004	LANDSCAPE SOIL AMENDMENT (TYPE IV)	SY	0
0192-6015	LANDSCAPE EDGE	LF	130.5
0192-6001	PLANT MATERIAL (4" CONT.)	EA	0



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RESPONSIBLE LANDSCAPE ARCHITECT:  
MICHAEL MAUER  
TEXAS REGISTRATION NO. 1510  
DATE: JANUARY 2021

**DRAWING LEGEND:**

-  **(TURF) TYPE A SEEDING** - CELLULOSE FIBER MULCH SEEDING GENERAL PURPOSE SEEDING (0164-6023)
-  **(SOD) BLOCK SODDING** - SOLID SODDING (0162-2002)
-  **TYPE A MULCH** - HARDWOOD BARK MULCH (0192-6012)
-  **TYPE B MULCH** - PINE STRAW MULCH (0192-6013)
-  **PLANT TYPE**  
**PLANT QUANTITY**  
**TRANSPLANT ZONE**

**PLAN NOTES:**

1. SHOVEL CUT PLANTER EDGE WITH ONE (1) ROW OF SOLID SOD CONTINUOUS. **SEE PLANTING & ESTABLISHMENT SHEET 2 OF 9**
2. 4" PINE STRAW MULCH BED CONTINUOUS
3. ONE (1) ROW OF SOLID SOD CONTINUOUS ALONG ALL PAVEMENT EDGES.
4. 6'-0" WIDE STRIP OF PINE STRAW MULCH INSIDE CANOPY DRIP LINE (FIELD VERIFY)
5. NATIVE UNDERSTORY. **SEE TREE PRESERVATION AND TRANSPLANTING PLAN**
6. METAL EDGING. **SEE PLANTING AND ESTABLISHMENT SHEET 2 OF 9**
7. CELLULAR FIBER MULCH SEEDING (0164-6023)
8. EXISTING TREES TO BE PRESERVED.
9. MOW BAND. **SEE ENGINEERING DRAWINGS.**

\* HAND SELECTED BY LA PRIOR TO TRANSPLANT FROM AVAILABLE ON-SITE TRANSPLANT STOCK.

**GENERAL NOTES:**

- A. SEE LANDSCAPE GENERAL NOTES SHEET 1 OF 2 FOR ADDITIONAL PLANTING INFORMATION
- B. SEE PLANTING & ESTABLISHMENT SHEET 3 OF 9 FOR PLANT LIST.
- C. SEE FERTILIZER, SEED, SOD, STRAW COMPOST, AND WATER FOR REQUIREMENT OF TURF INSTALLATION FOR CONSTRUCTED SURFACES.

**TREE TRANSPLANT KEY:**

- |                 |                 |                 |
|-----------------|-----------------|-----------------|
| <b>A</b> ZONE A | <b>D</b> ZONE D | <b>G</b> ZONE G |
| <b>B</b> ZONE B | <b>E</b> ZONE E | <b>H</b> ZONE H |
| <b>C</b> ZONE C | <b>F</b> ZONE F | <b>I</b> ZONE I |

NO.	REVISIONS	BY	DATE

**M2L** M2L ASSOCIATES, INC.  
8955 KATY FWY, SUITE 300  
HOUSTON, TX 77024

**HNTB** HNTB Corporation  
The HNTB Companies  
Infrastructure Solutions  
Firm Registration Number 420

**CITY OF HOUSTON** LAKE HOUSTON REDEVELOPMENT AUTHORITY  
410 ALLEN BOONE HUMPHRIES  
ROBINSON LLP  
3200 SOUTHWEST FREEWAY  
SUITE 2600 HOUSTON, TX 77027

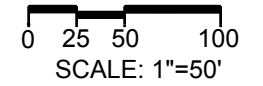
HOUSTON PUBLIC WORKS

**NORTH PARK DRIVE**

**PLANTING PLAN**  
SHEET 4 OF 17

DESIGNED:	FED. RD. DIV. No. 6	STATE TEXAS	CITY OF HOUSTON WBS	HIGHWAY No. CS
CHECKED:	STATE DISTRICT HOU	COUNTY HARRIS	CONTROL No. 0912	SECTION No. 37
DRAWN:				JOB No. 232
CHECKED:				SHEET No. 677





SHEET QUANTITIES - PLANTING			
ITEM	DESCRIPTION	UNIT	QNTY.
0161-6011	GENERAL USE COMPOST (1")	SY	3598.2
0162-2002	BLOCK SODDING	SY	3363.5
0164-6023	CELL FBR MULCH (PERM)(RURAL)(CLAY)	SY	234.7
0192-6012	MULCH (BARK)	CY	0
0192-6013	MULCH (PINE)	CY	94.4
0166-6001	FERTILIZER (TURF/SOD)	SY	3598.2
0192-6002	PLANT MATERIAL (1 GALLON)	EA	5
0192-6003	PLANT MATERIAL (3 GALLON)	EA	26
0192-6007	PLANT MATERIAL (45 GALLON)	EA	6
0192-6008	PLANT MATERIAL (100 GALLON)	EA	2
0192-6063	PLANT BED PREP (TYPE I)	SY	7.6
0192-6064	PLANT BED PREP (TYPE II)	SY	3363.5
0192-6065	PLANT BED PREP (TYPE III)	SY	0
0192-6066	PLANT BED PREP (TYPE IV)	SY	234.7
1006-6001	LANDSCAPE SOIL AMENDMENT (TYPE I)	EA	8
1006-6002	LANDSCAPE SOIL AMENDMENT (TYPE II)	SY	234.7
1006-6003	LANDSCAPE SOIL AMENDMENT (TYPE III)	SY	7.6
1006-6004	LANDSCAPE SOIL AMENDMENT (TYPE IV)	SY	0
0192-6015	LANDSCAPE EDGE	LF	0
0192-6001	PLANT MATERIAL (4" CONT.)	EA	0



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90% SUBMITTAL

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RESPONSIBLE LANDSCAPE ARCHITECT:  
MICHAEL MAUER  
TEXAS REGISTRATION NO. 1510  
DATE: JANUARY 2021

NO.	REVISIONS	BY	DATE

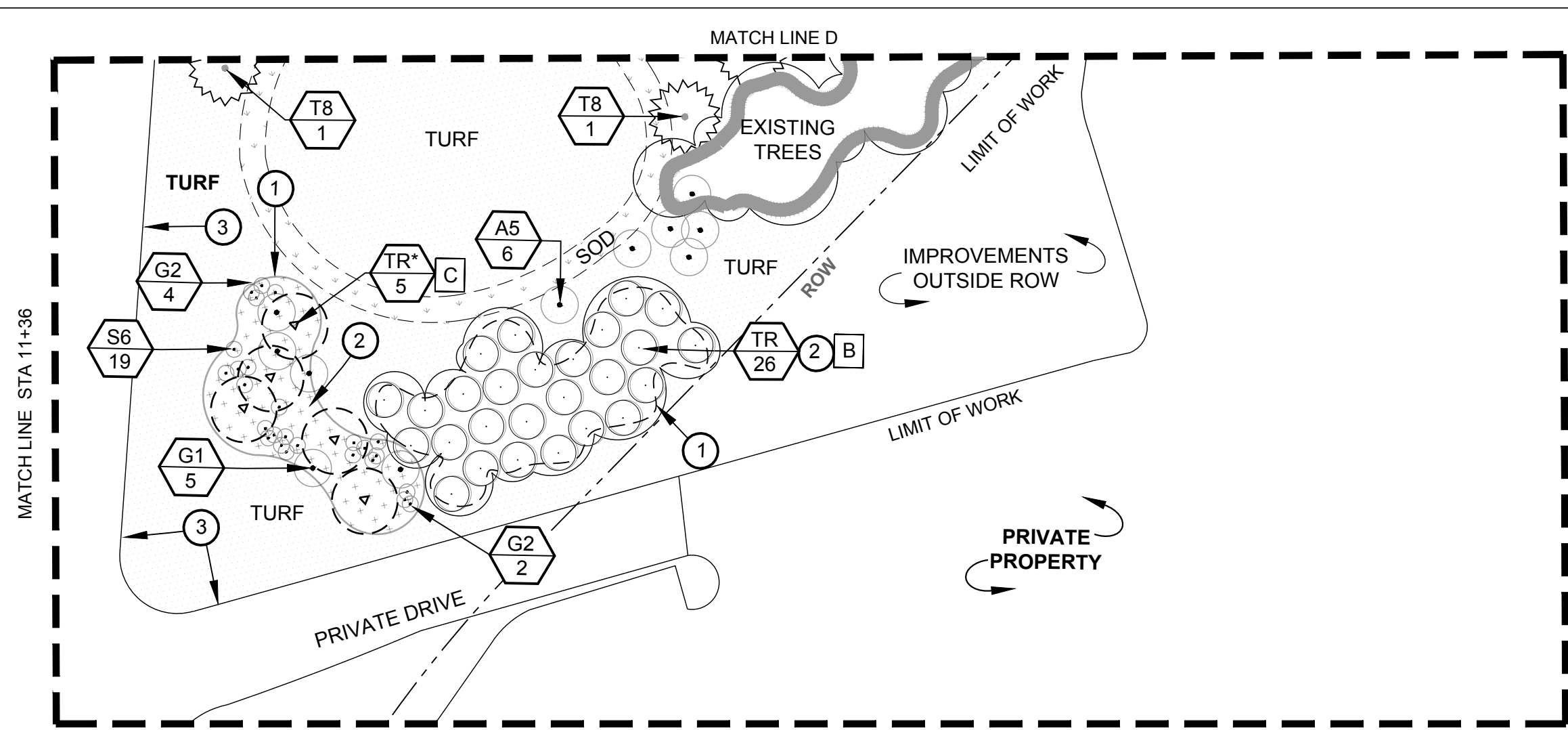
**MZL** MZL ASSOCIATES, INC.  
8955 KATY FWY, SUITE 300  
HOUSTON, TX 77024

**HNTB** HNTB Corporation  
The HNTB Companies  
Infrastructure Solutions  
Firm Registration Number 420

CITY OF HOUSTON LAKE HOUSTON REDEVELOPMENT AUTHORITY  
210 ALLEN BOONE HUMPHRIES ROBINSON LLP  
3200 SOUTHWEST FREEWAY  
SUITE 2600 HOUSTON, TX 77027

**NORTH PARK DRIVE**  
  
**PLANTING PLAN**  
**SHEET 5 OF 17**

DESIGNED:	FED. RD. DIV. No.	STATE	CITY OF HOUSTON WBS	HIGHWAY No.
	6	TEXAS	SEE TITLE SHEET	CS
CHECKED:	STATE DISTRICT	COUNTY	CONTROL SECTION No.	JOB No.
	HOU	HARRIS	0912 37	232
CHECKED:				SHEET No.
				678



MATCH LINE STA 11+36

LIMIT OF WORK

LIMIT OF WORK

**DRAWING LEGEND:**

**(TURF) TYPE A SEEDING** - CELLULOSE FIBER MULCH SEEDING GENERAL PURPOSE SEEDING (0164-6023)

**(SOD) BLOCK SODDING** - SOLID SODDING (0162-2002)

**TYPE A MULCH** - HARDWOOD BARK MULCH (0192-6012)

**TYPE B MULCH** - PINE STRAW MULCH (0192-6013)

PLANT TYPE  
PLANT QUANTITY  
TRANSPLANT ZONE

**PLAN NOTES:**

- SHOVEL CUT PLANTER EDGE WITH ONE (1) ROW OF SOLID SOD CONTINUOUS. **SEE PLANTING & ESTABLISHMENT SHEET 2 OF 9**
- 4" PINE STRAW MULCH BED CONTINUOUS
- ONE (1) ROW OF SOLID SOD CONTINUOUS ALONG ALL PAVEMENT EDGES.
- 6'-0" WIDE STRIP OF PINE STRAW MULCH INSIDE CANOPY DRIP LINE (FIELD VERIFY)
- NATIVE UNDERSTORY. **SEE TREE PRESERVATION AND TRANSPLANTING PLAN**
- METAL EDGING. **SEE PLANTING AND ESTABLISHMENT SHEET 2 OF 9**
- CELLULAR FIBER MULCH SEEDING (0164-6023)
- EXISTING TREES TO BE PRESERVED.
- MOW BAND. **SEE ENGINEERING DRAWINGS.**

\* HAND SELECTED BY LA PRIOR TO TRANSPLANT FROM AVAILABLE ON-SITE TRANSPLANT STOCK.

**GENERAL NOTES:**

- SEE LANDSCAPE GENERAL NOTES SHEET 1 OF 2 FOR ADDITIONAL PLANTING INFORMATION
- SEE PLANTING & ESTABLISHMENT SHEET 3 OF 9 FOR PLANT LIST.
- SEE FERTILIZER, SEED, SOD, STRAW COMPOST, AND WATER FOR REQUIREMENT OF TURF INSTALLATION FOR CONSTRUCTED SURFACES.

**TREE TRANSPLANT KEY:**

<b>A</b> ZONE A	<b>D</b> ZONE D	<b>G</b> ZONE G
<b>B</b> ZONE B	<b>E</b> ZONE E	<b>H</b> ZONE H
<b>C</b> ZONE C	<b>F</b> ZONE F	<b>I</b> ZONE I