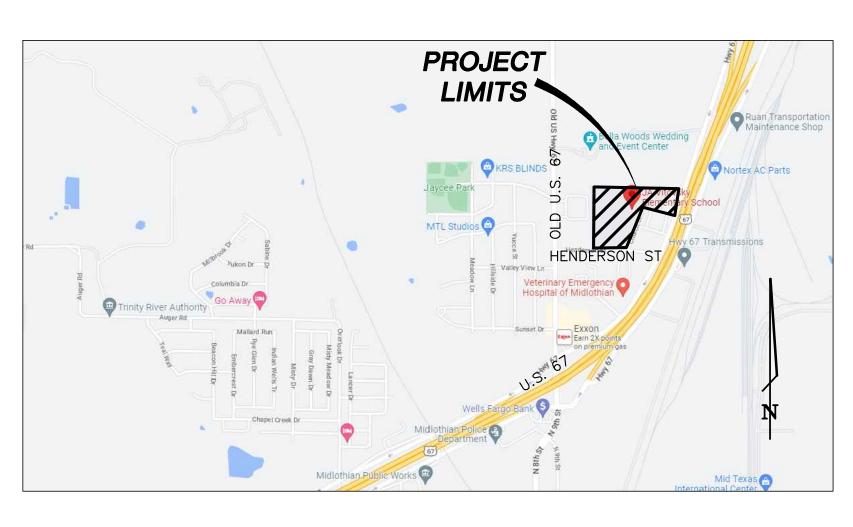
Midlothian Independent School District Parking Lot Improvements to Serve VITOVSKY ELEMENTARY SCHOOL



SUPERINTENDENT DR. JO ANN FEY



Location Map
N.T.S.



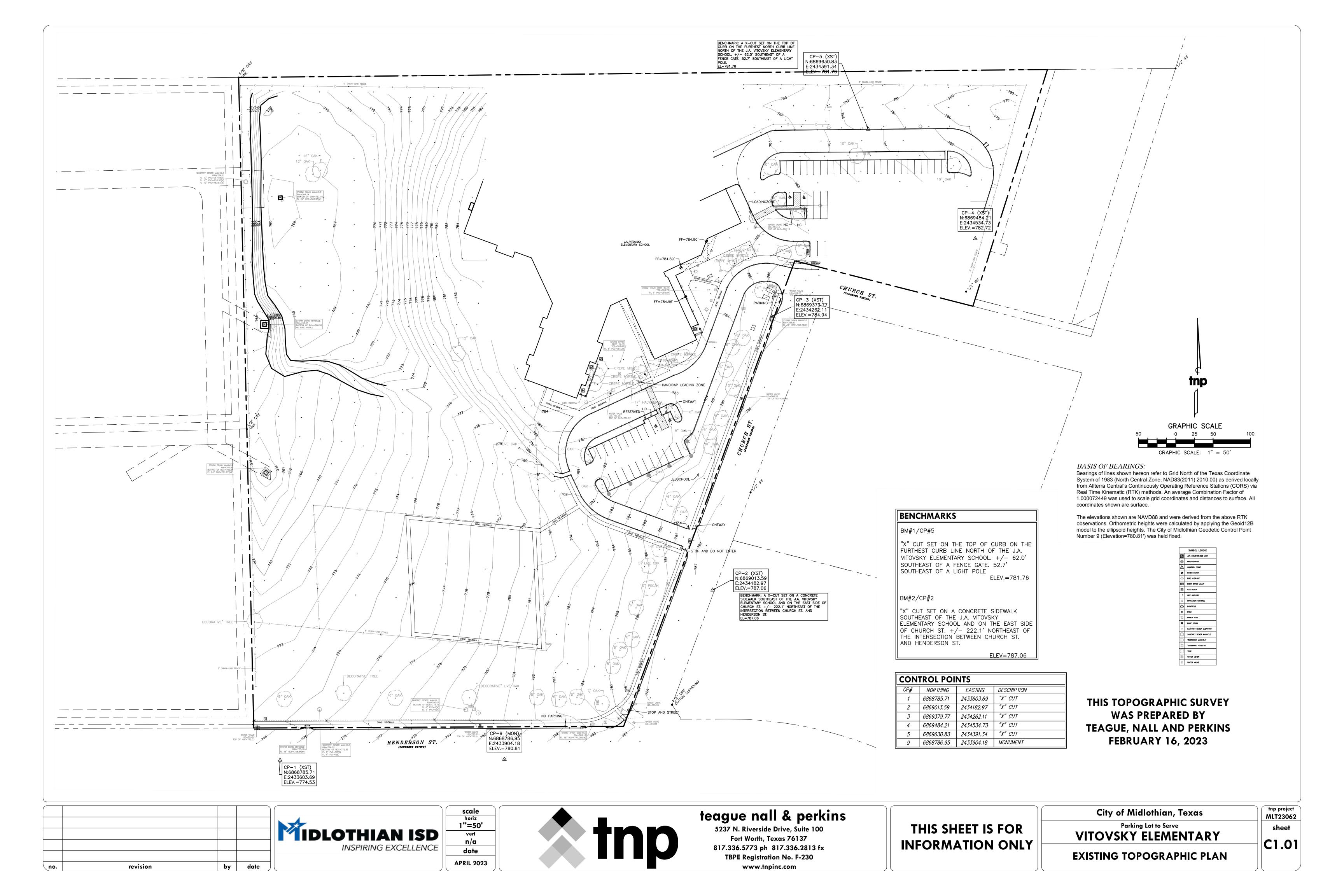


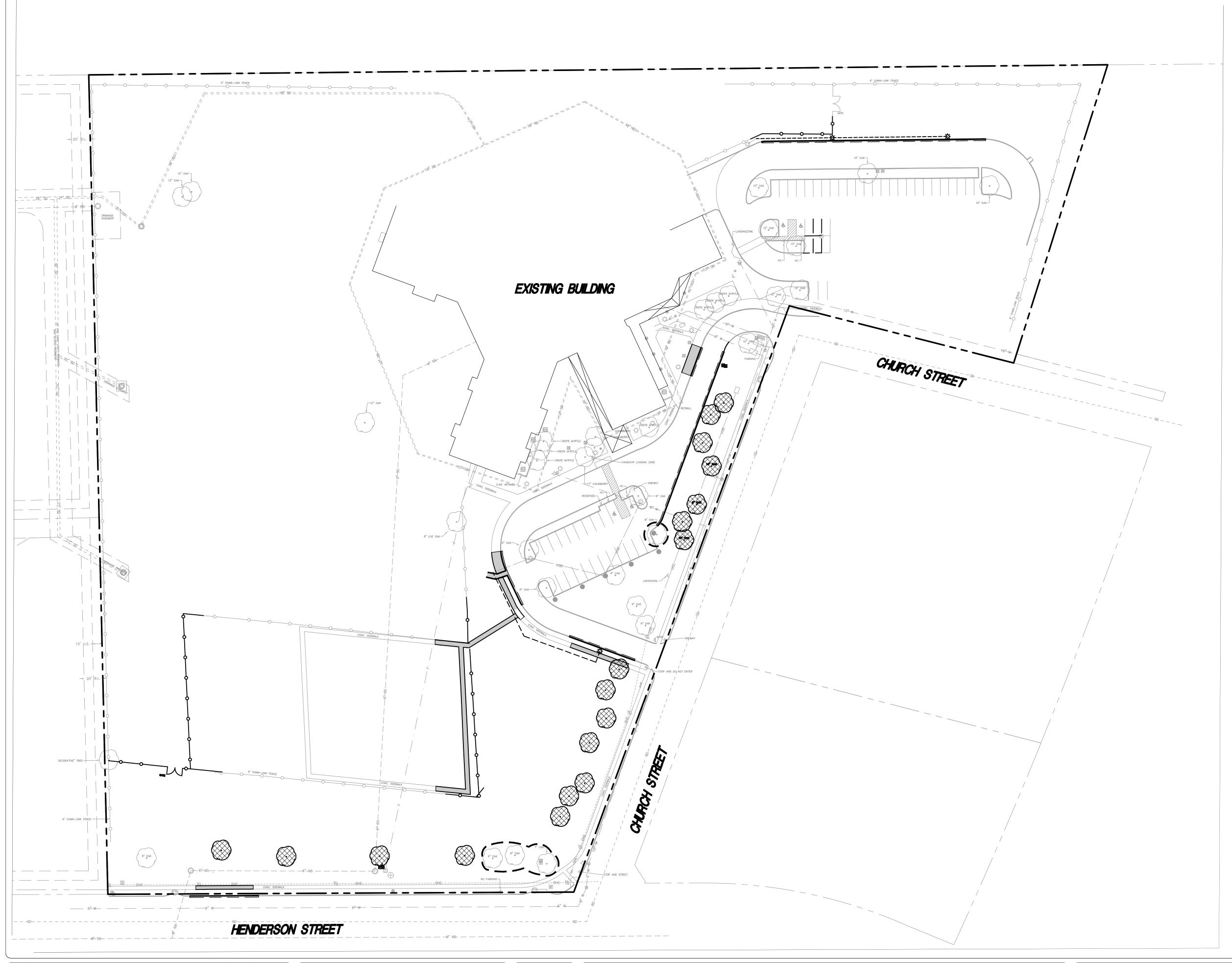
APRIL 2023

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C1.01	Existing Topographic Plan
C1.02	Overall Demolition Plan
C1.03	Demolition Plan - Section A
C1.04	Demolition Plan - Section B
C1.05	Overall Site Plan
C1.06	Site Plan - Section A
C1.07	Site Plan - Section B
C1.08	Overall Dimensional Control Plan
C1.09	Dimensional Control Plan - Section A
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C1.14	Existing Drainage Area Map
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IR1.01	Overall Irrigation Plan
IR1.02	Irrigation Plan
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IR1.11	Irrigation Details
E0.00	Specifications, Legend, & Notes
E0.01	Details & Schedule
E1.00	Site Plan
E2.00	Site Plan



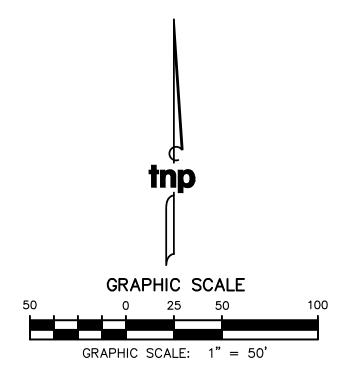


DEMOLITION NOTES

- . CONTRACTOR TO COORDINATE REMOVAL AND SALVAGE OF MISCELLANEOUS ITEMS WITH
- 2. CONTRACTOR SHALL NOTIFY OWNER OF EXISTING ITEMS IN CONFLICT WITH SITE IMPROVEMENTS NOT IDENTIFIED IN PLANS.
- 3. ALL PHASING AND METHOD OF DEMOLITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. REPLACE/REPAIR ANY IMPROVEMENTS DAMAGED OR REMOVED FOR CONSTRUCTION ACCESS.
- 5. CONTRACTOR SHALL REMOVE/REPLACE ANY FLATWORK THAT WAS DAMAGED DURING THE COURSE OF DEMOLITION AND/OR CONSTRUCTION.
- 6. EXISTING IRRIGATION SYSTEM SHALL BE RETROFITTED TO ACCOMMODATE NEW CONSTRUCTION. CONFIRM HEAD TO HEAD COVERAGE PER STATE REGULATIONS.
- 7. CONTRACTOR SHALL VERIFY EXACT LOCATION AND SIZE OF ALL UTILITIES AND USE EXTREME CAUTION DURING CONSTRUCTION.
- 8. REFERENCE ELECTRICAL PLANS FOR LIMITS OF ELECTRICAL UTILITY DEMOLITION.

UTILITY NOTE

THE UTILITIES SHOWN ON THE PLANS WERE COMPILED FROM VARIOUS SOURCES AND ARE INTENDED TO SHOW THE GENERAL EXISTENCE AND LOCATION OF UTILITIES IN THE AREA OF CONSTRUCTION. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE UTILITY INFORMATION SHOWN ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT UTILITY COMPANIES 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES IN ORDER TO DETERMINE IF THERE IS ANY CONFLICT WITH THE PROPOSED FACILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS WITH EXISTING UTILITIES ARE DISCOVERED.



DEMOLITION LEGEND

CONCRETE PAVEMENT/FLATWORK REMOVAL



TREE REMOVAL



REMOVE EXISTING UTILITIES

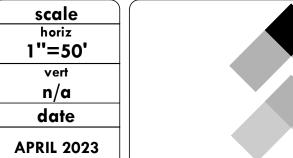


KEYPLAN

SCALE 1"=500'

by revision date





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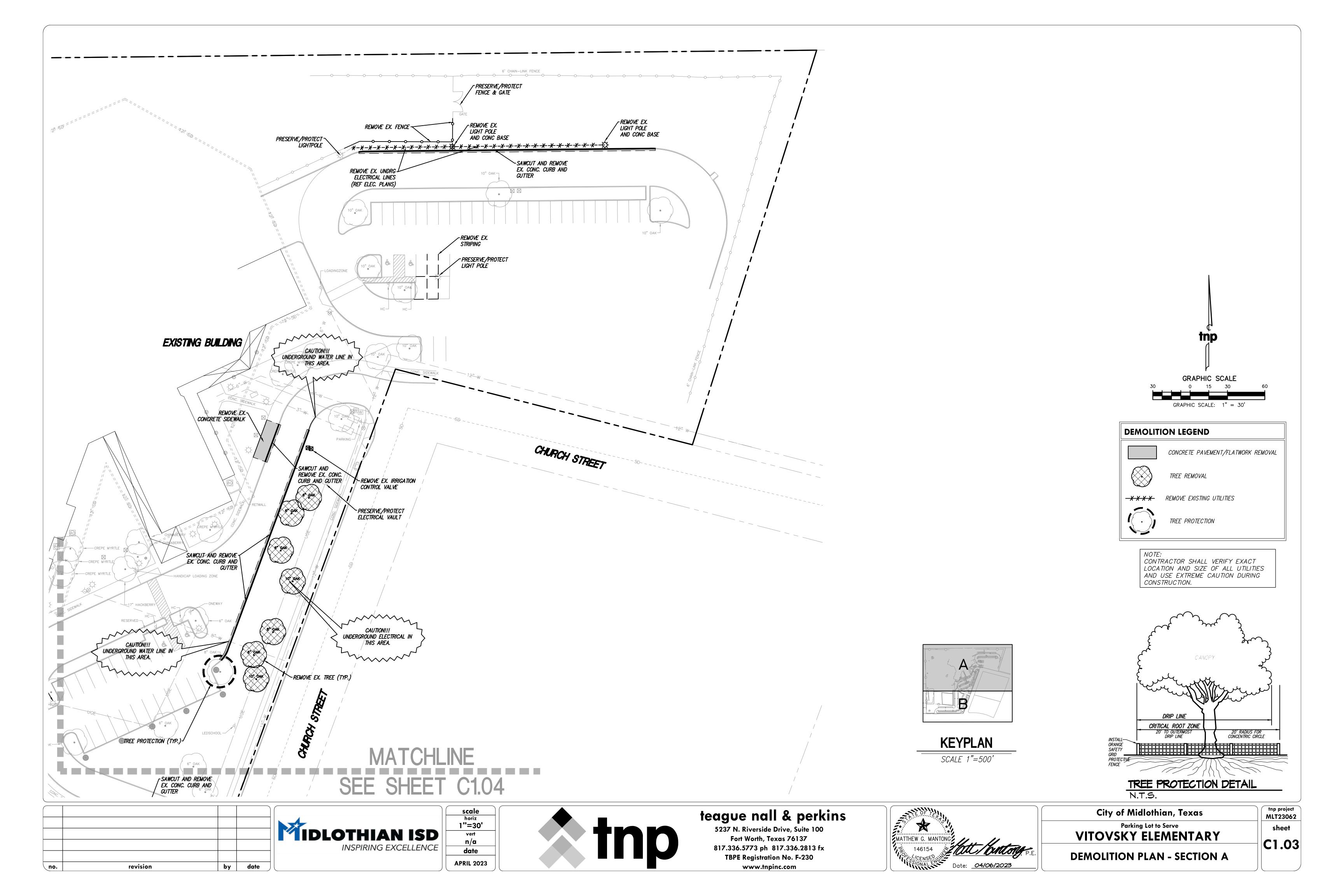
Fort Worth, Texas 76137 817.336.5773 ph 817.336.2813 fx TBPE Registration No. F-230 www.tnpinc.com

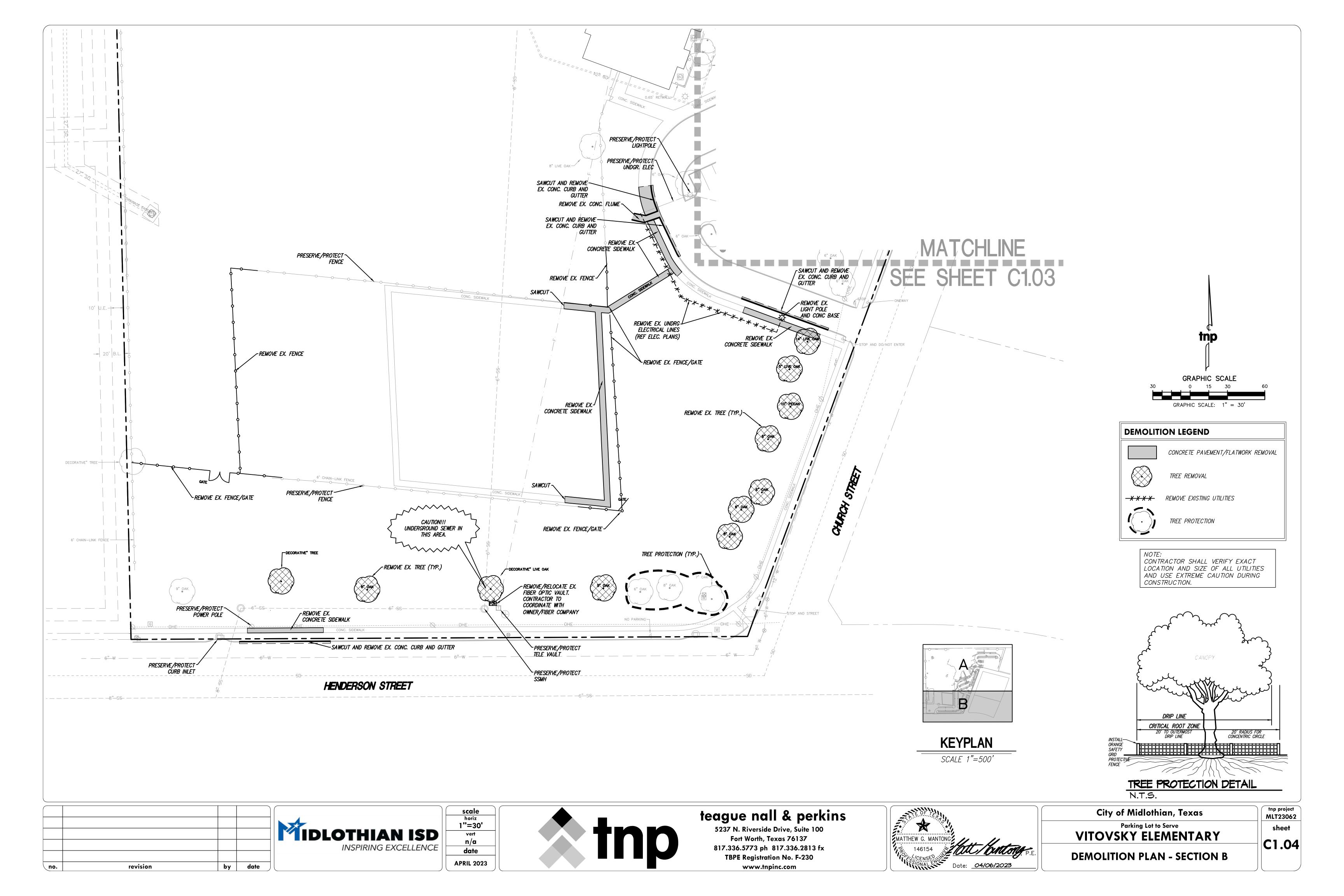


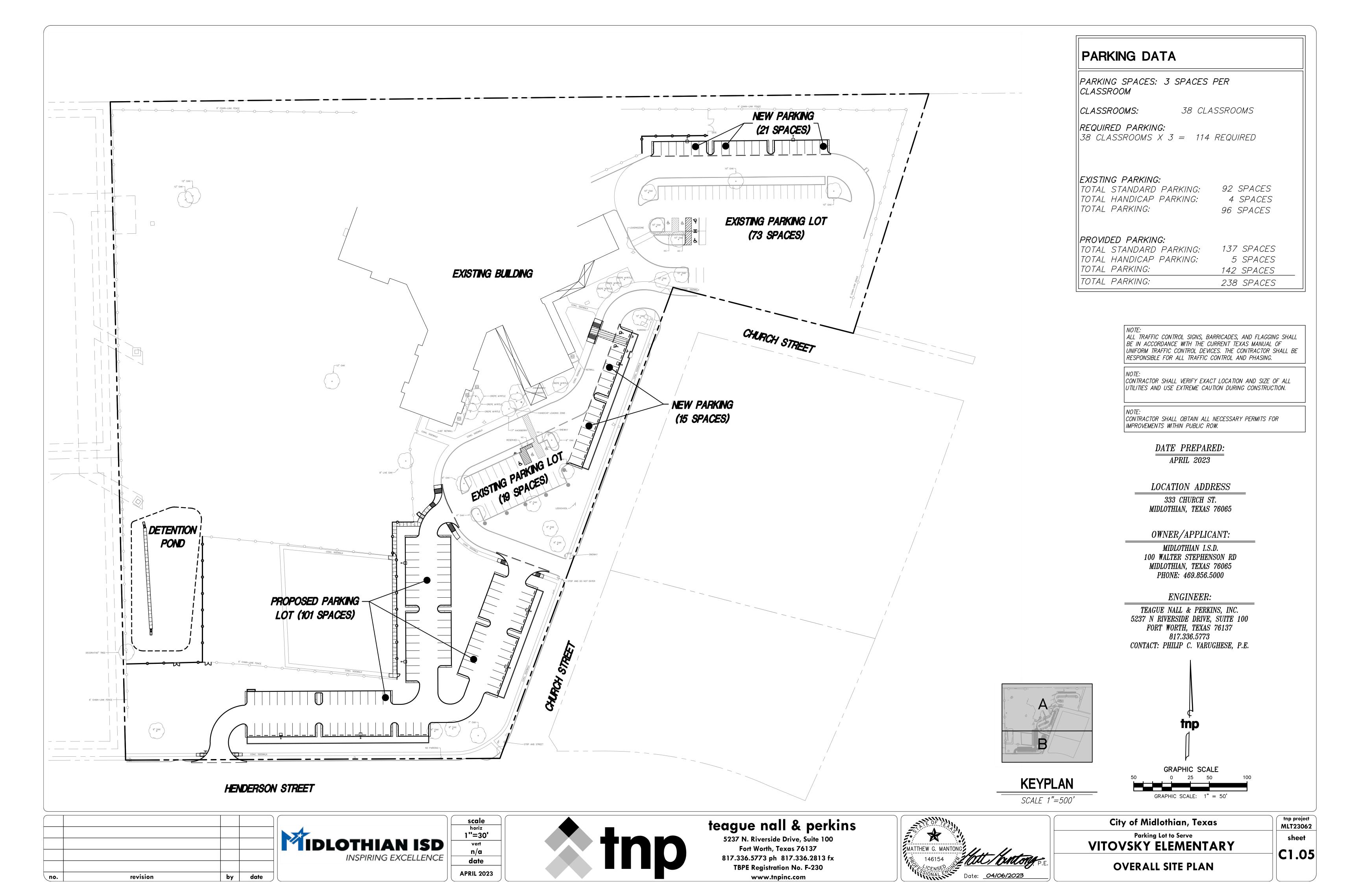
City of Midlothian, Texas

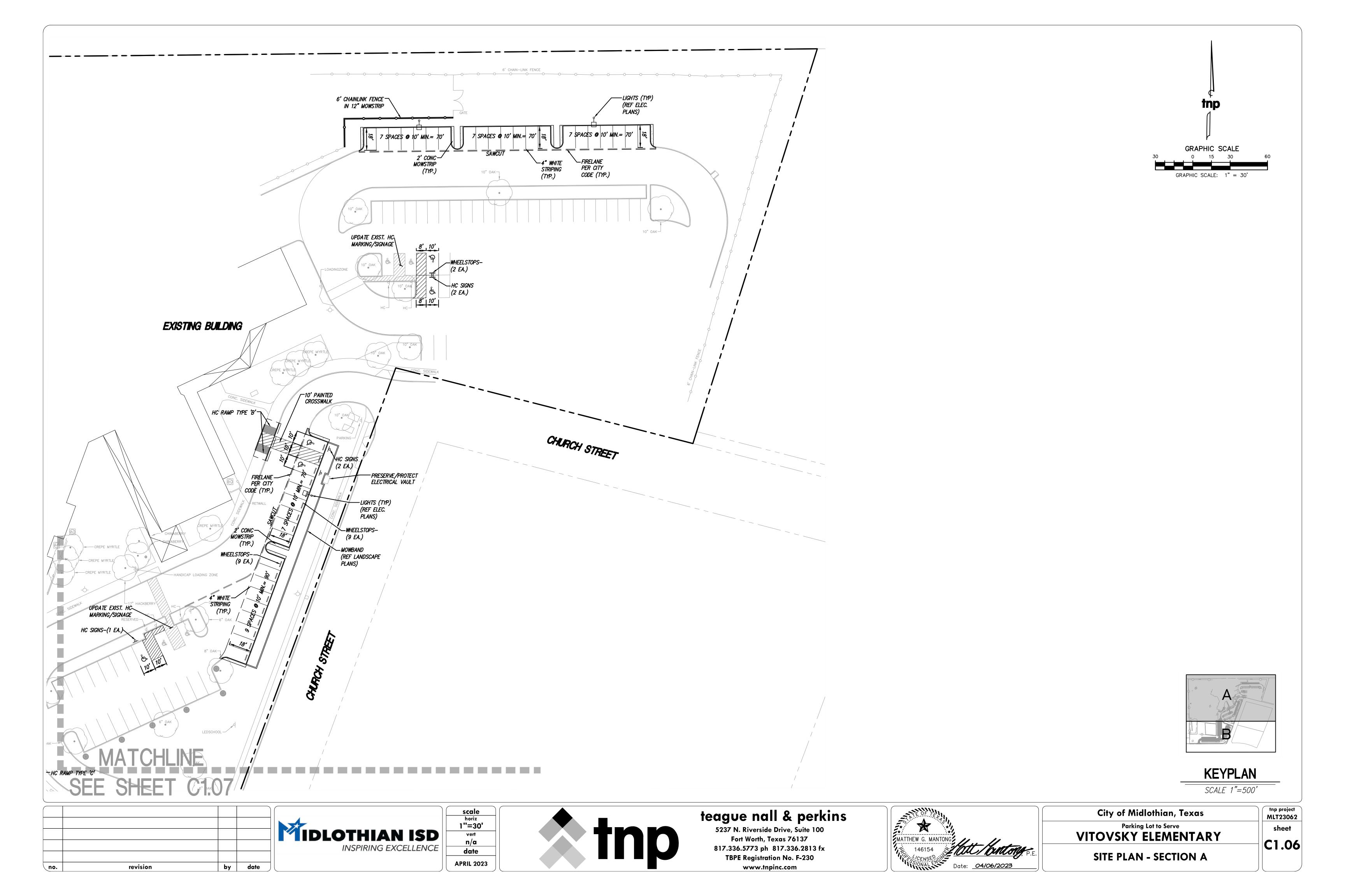
Parking Lot to Serve

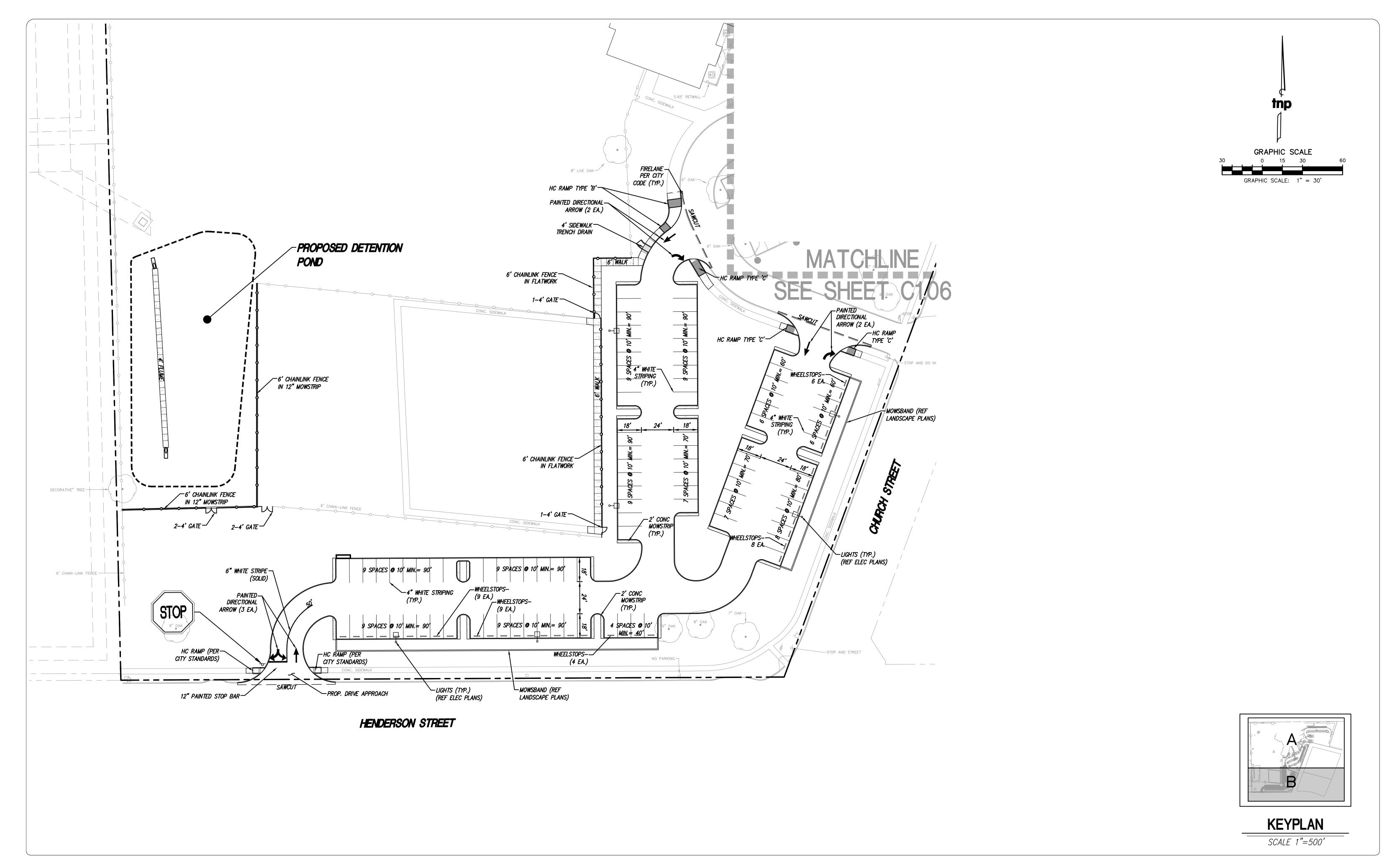
VITOVSKY ELEMENTARY OVERALL DEMOLITION PLAN MLT23062 sheet

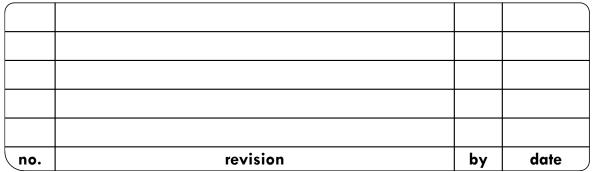






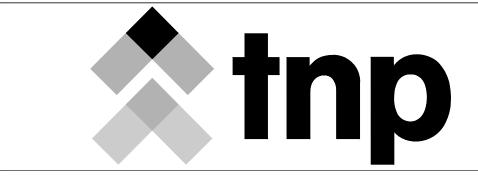








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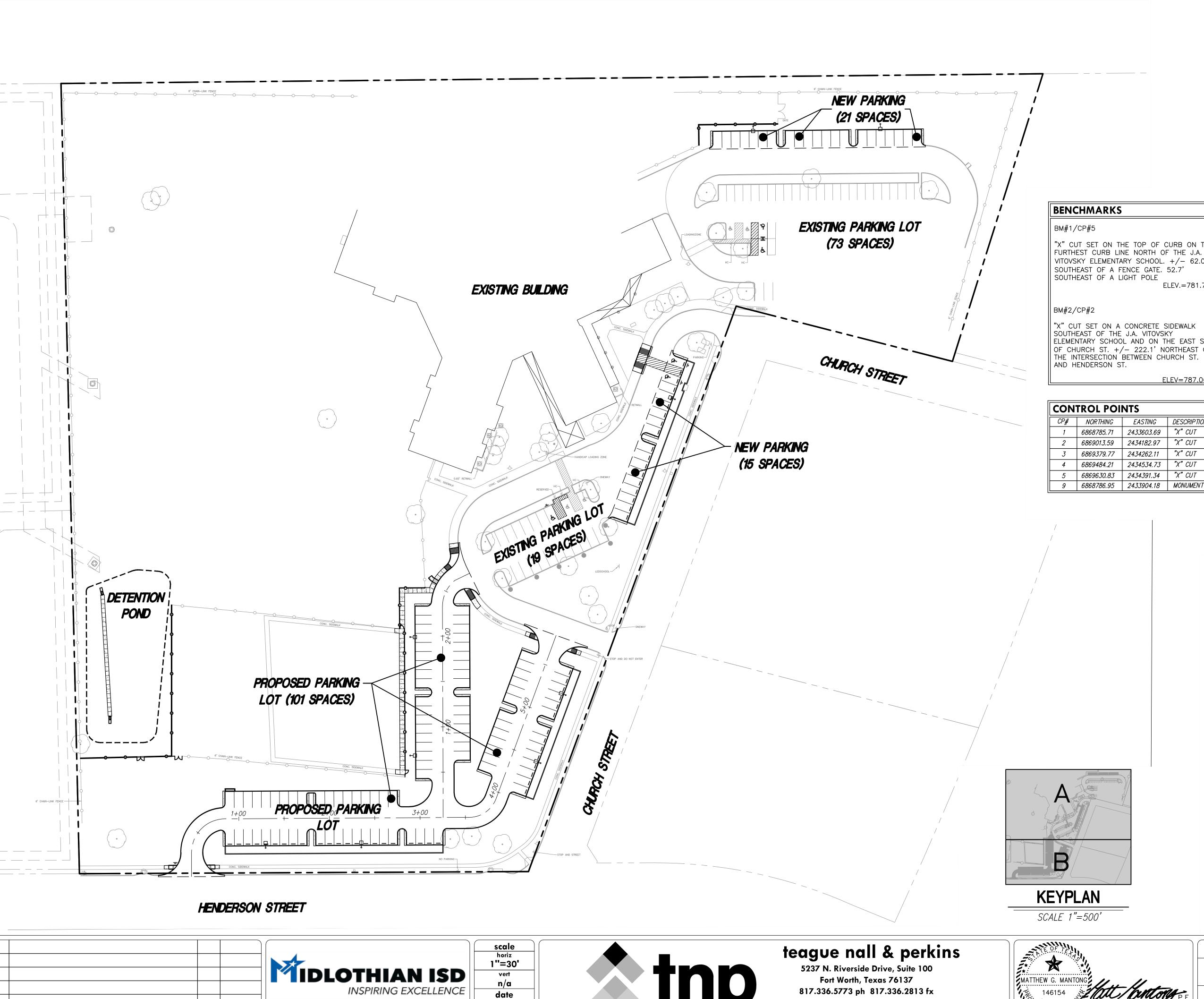
City of Midlothian, Texas

Parking Lot to Serve
VITOVSKY ELEMENTARY

SITE PLAN - SECTION B

sheet C1.07

tnp project MLT23062

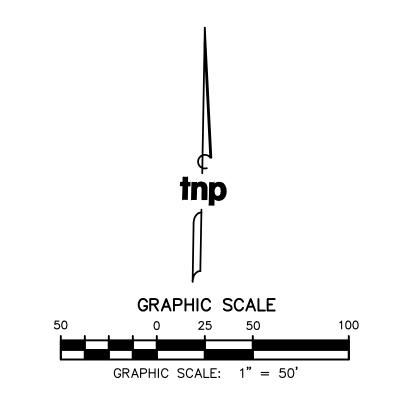


APRIL 2023

by

revision

date



"X" CUT SET ON THE TOP OF CURB ON THE FURTHEST CURB LINE NORTH OF THE J.A. VITOVSKY ELEMENTARY SCHOOL. +/- 62.0' SOUTHEAST OF A FENCE GATE. 52.7' SOUTHEAST OF A LIGHT POLE ELEV.=781.76

"X" CUT SET ON A CONCRETE SIDEWALK SOUTHEAST OF THE J.A. VITOVSKY ELEMENTARY SCHOOL AND ON THE EAST SIDE OF CHURCH ST. +/- 222.1' NORTHEAST OF THE INTERSECTION BETWEEN CHURCH ST.

ELEV=787.06

	<u> </u>		
CP#	NORTHING	EASTING	DESCRIPTION
1	6868785.71	2433603.69	"X" CUT
2	6869013.59	2434182.97	"X" CUT
3	6869379.77	2434262.11	"X" CUT
4	6869484.21	2434534.73	"X" CUT
5	6869630.83	2434391.34	"X" CUT
	6969796.05	243300419	MONIJMENT

TBPE Registration No. F-230

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NOTES

- THIS PLAN SHALL BE USED TO CONTROL THE GEOMETRICS OF THE SITE LAYOUT. DIMENSIONAL TIES AND COORDINATES ARE PROVIDED TO ASSIST IN THE LAYOUT OF THE SITE IMPROVEMENTS. THE CONTRACTOR SHALL VERIFY THE COORDINATE TIES WITH THE DIMENSIONS PROVIDED ON THE
- 2. ALL DIMENSIONS AND COORDINATES ARE TO THE FACE OF CURB.
- 3. ALL CURB RADII ARE 5' UNLESS OTHERWISE NOTED.

ALL TRAFFIC CONTROL SIGNS, BARRICADES, AND FLAGGING SHALL BE IN ACCORDANCE WITH THE CURRENT TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND PHASING.

CONTRACTOR SHALL VERIFY EXACT LOCATION AND SIZE OF ALL UTILITIES AND USE EXTREME CAUTION DURING CONSTRUCTION.

CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR IMPROVEMENTS WITHIN PUBLIC ROW.

CURVE DATA				
Curve #	Delta	Radius	Length	Tan
C1	89°32'20"	37.00	57.82	36.70
C2	69°28'31"	32.00	38.80	22.19
C3	50°56'30"	37.00	32.90	17.63

COORDINATE CONTROL TABLE Point # | Northing | Easting 6868919.51 2433729.12 PI

3	6868919.95	2433819.12	PI
4	6868920.00	2433829.11	PI
5	6868920.44	2433919.12	PI
6	6868902.51	2433932.78	PI
7	6868933.75	2433939.63	PI
8	6869023.75	2433939.20	PI
9	6869033.75	2433939.15	PI
10	6869123.74	2433938.72	PI
11	6869188.66	2433986.94	PI
12	6869136.35	2434008.71	PI
13	6869124.03	2433998.72	PI
14	6869034.03	2433999.15	PI
15	6869024.03	2433999.20	PI
16	6868954.03	2433999.53	PI
17	6868917.93	2433981.70	PI
18	6868915.89	2434016.78	PI
19	6868944.21	2434008.05	PI
20	6869009.87	2434032.32	PI
21	6869019.25	2434035.78	PI
22	6869075.53	2434056.58	PI
23	6869102.83	2434059.07	PI
24	6869077.54	2434128.61	PI
25	6869054.73	2434112.86	PI
26	6868998.45	2434092.06	PI

6868914.03 2434060.87

6868860.69 2433969.41

6868860.49 2433929.41

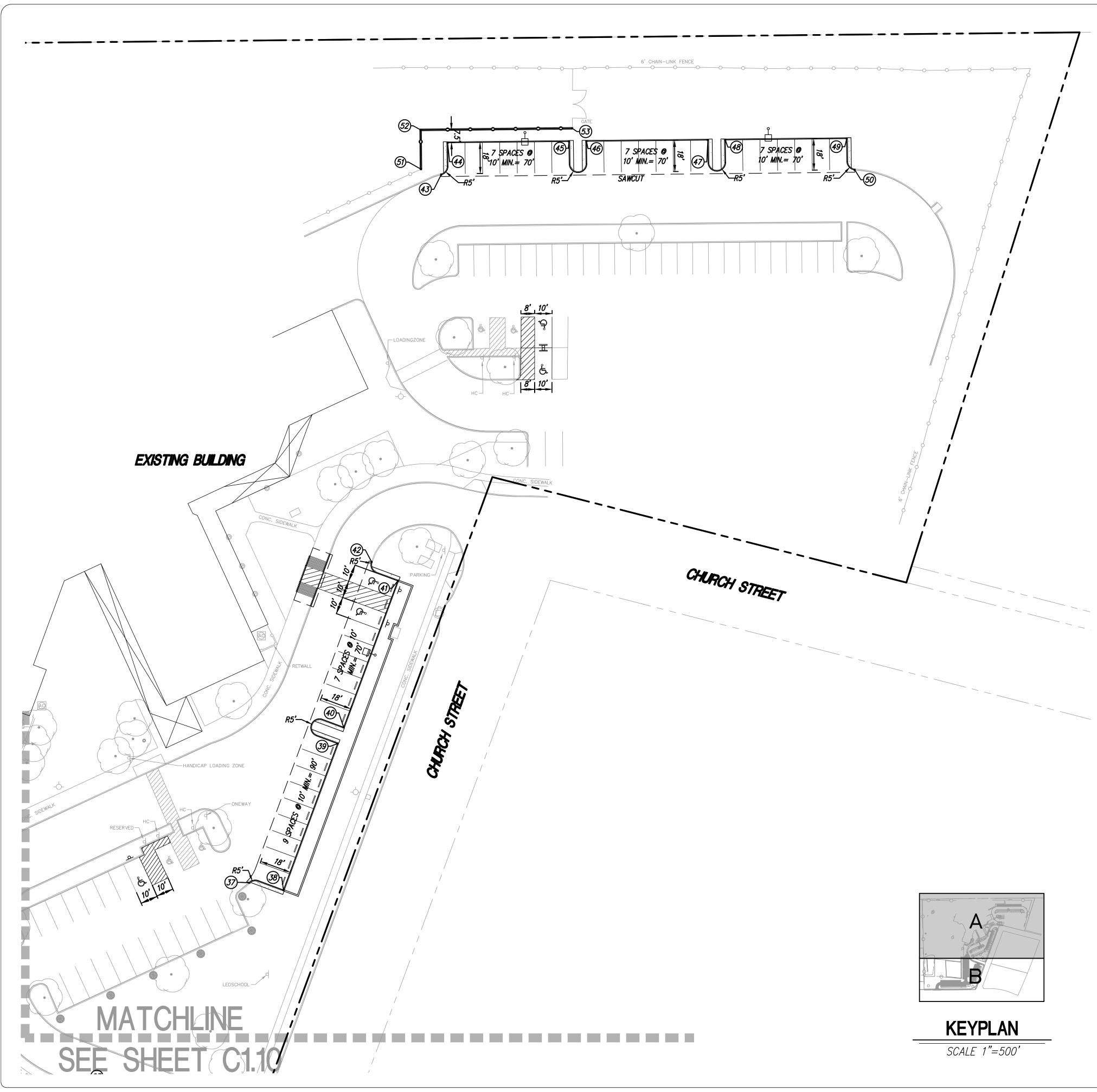
COORDINATE CONTROL TABLE				
oint #	Northing	Easting	Desc	
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33	6868860.00	2433829.41	PI	
34	6868859.95	2433819.41	PI	
35	6868859.51	2433729.41	PI	
36	6868827.19	2433728.71	PI	
37	6869220.67	2434152.86	PI	
38	6869216.45	2434172.63	PI	
39	6869300.87	2434203.82	PI	
40	6869310.25	2434207.29	PI	
41	6869394.67	2434238.49	PI	
42	6869405.59	2434223.34	PI	
43	6869628.76	2434263.46	PI	
44	6869647.21	2434267.16	PI	
45	6869647.94	2434337.14	PI	
46	6869648.04	2434347.16	PI	
47	6869648.76	2434417.14	PI	
48	6869648.87	2434427.14	PI	
49	6869649.59	2434497.15	PI	
50	6869631.54	2434501.74	PI	
51	6869631.89	2434251.82	FENCE	
52	6869654.55	2434251.59	FENCE	
53	6869655.46	2434338.99	FENCE	
54	6868956.04	2433569.45	FENCE	
55	6868958.37	2433670.12	FENCE	
56	6869125.15	2433670.12	FENCE	
57	6869144.80	2433949.71	FENCE	
58	6869143.80	2433949.72	FENCE	
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61	6868935.40	2433927.63	FENCE	

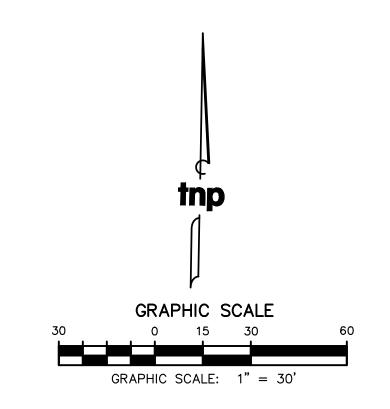
City of Midlothian, Texas

CONTROL PLAN

Parking Lot to Serve **VITOVSKY ELEMENTARY OVERALL DIMENSIONAL**

tnp project MLT23062 sheet C1.08





BENCHMARKS

BM#1/CP#5

"X" CUT SET ON THE TOP OF CURB ON THE FURTHEST CURB LINE NORTH OF THE J.A.

VITOVSKY ELEMENTARY SCHOOL. +/- 62.0'

SOUTHEAST OF A FENCE GATE. 52.7'

SOUTHEAST OF A LIGHT POLE

ELEV.=781.76

BM#2/CP#2

"X" CUT SET ON A CONCRETE SIDEWALK SOUTHEAST OF THE J.A. VITOVSKY ELEMENTARY SCHOOL AND ON THE EAST SIDE OF CHURCH ST. +/- 222.1' NORTHEAST OF THE INTERSECTION BETWEEN CHURCH ST. AND HENDERSON ST.

ELEV=787.06

CONTROL POINTS					
CP#	NORTHING	EASTING	DESCRIPTION		
1	6868785.71	2433603.69	"X" CUT		
2	6869013.59	2434182.97	"X" CUT		
3	6869379.77	2434262.11	"X" CUT		
4	6869484.21	2434534.73	"X" CUT		
5	6869630.83	2434391.34	"X" CUT		
9	6868786.95	2433904.18	MONUMENT		

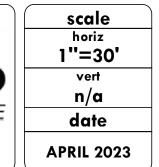
CURVE DATA				
Curve #	Delta	Radius	Length	Tan
C1	89°32'20"	37.00	57.82	36.70
C2	69°28'31"	32.00	38.80	22.19
<i>C3</i>	50°56'30"	37.00	32.90	17.63

COORDINATE CONTROL TABLE			
Point #	Northing	Easting	Desc
1	6868826.85	2433655.56	PI
2	6868919.51	2433729.12	PI
3	6868919.95	2433819.12	PI
4	6868920.00	2433829.11	PI
5	6868920.44	2433919.12	PI
6	6868902.51	2433932.78	PI
7	6868933.75	2433939.63	PI
8	6869023.75	2433939.20	PI
9	6869033.75	2433939.15	PI
10	6869123.74	2433938.72	PI
11	6869188.66	2433986.94	PI
12	6869136.35	2434008.71	PI
13	6869124.03	2433998.72	PI
14	6869034.03	2433999.15	PI
15	6869024.03	2433999.20	PI
16	6868954.03	2433999.53	PI
17	6868917.93	2433981.70	PI
18	6868915.89	2434016.78	PI
19	6868944.21	2434008.05	PI
20	6869009.87	2434032.32	PI
21	6869019.25	2434035.78	PI
22	6869075.53	2434056.58	PI
23	6869102.83	2434059.07	PI
24	6869077.54	2434128.61	PI
25	6869054.73	2434112.86	PI
26	6868998.45	2434092.06	PI
27	6868989.07	2434088.60	PI
28	6868914.03	2434060.87	PI
29	6868878.83	2433998.23	PI
30	6868860.69	2433969.41	PI
31	6868860.49	2433929.41	PI

<i>COO</i>	RDINATE CO	ONTROL TAE	BLE
Point #	Northing	Easting	Desc
32	6868860.44	2433919.41	PI
33	6868860.00	2433829.41	PI
34	6868859.95	2433819.41	PI
35	6868859.51	2433729.41	PI
36	6868827.19	2433728.71	PI
37	6869220.67	2434152.86	PI
38	6869216.45	2434172.63	PI
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42	6869405.59	2434223.34	PI
43	6869628.76	2434263.46	PI
44	6869647.21	2434267.16	PI
45	6869647.94	2434337.14	PI
46	6869648.04	2434347.16	PI
47	6869648.76	2434417.14	PI
48	6869648.87	2434427.14	PI
49	6869649.59	2434497.15	PI
50	6869631.54	2434501.74	PI
51	6869631.89	2434251.82	FENCE
52	6869654.55	2434251.59	FENCE
53	6869655.46	2434338.99	FENCE
54	6868956.04	2433569.45	FENCE
55	6868958.37	2433670.12	FENCE
56	6869125.15	2433670.12	FENCE
57	6869144.80	2433949.71	FENCE
58	6869143.80	2433949.72	FENCE
59	6869143.66	2433921.63	FENCE
60	6869099.07	2433921.84	FENCE
61	6868935.40	2433927.63	FENCE

no. revision by date







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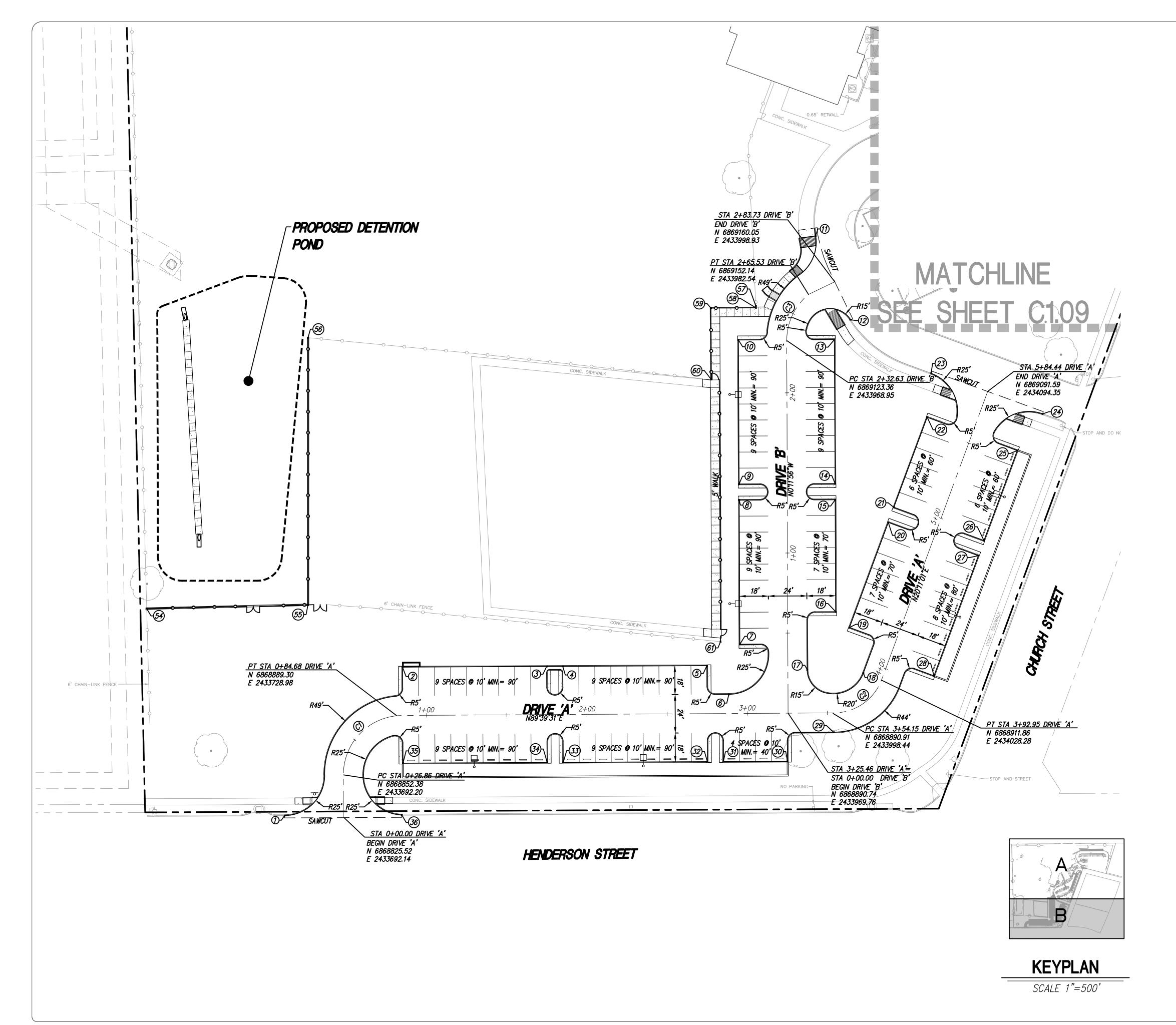


City of Midlothian, Texas

Parking Lot to Serve
VITOVSKY ELEMENTARY

DIMENSIONAL CONTROL PLAN
- SECTION A

tnp project
MLT23062
sheet
C1.09





BM#1/CP#5

"X" CUT SET ON THE TOP OF CURB ON THE FURTHEST CURB LINE NORTH OF THE J.A.

VITOVSKY ELEMENTARY SCHOOL. +/- 62.0'

SOUTHEAST OF A FENCE GATE. 52.7'

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4	6869484.21	2434534.73	"X" CUT		
5	6869630.83	2434391.34	"X" CUT		
9	6868786.95	2433904.18	MONUMENT		

GRAPHIC SCALE: 1" = 30'

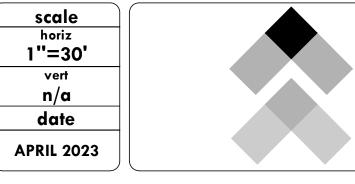
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9	6869033.75	2433939.15	PI
10	6869123.74	2433938.72	PI
11	6869188.66	2433986.94	PI
12	6869136.35	2434008.71	PI
13	6869124.03	2433998.72	PI
14	6869034.03	2433999.15	PI
15	6869024.03	2433999.20	PI
16	6868954.03	2433999.53	PI
17	6868917.93	2433981.70	PI
18	6868915.89	2434016.78	PI
19	6868944.21	2434008.05	PI
20	6869009.87	2434032.32	PI
21	6869019.25	2434035.78	PI
22	6869075.53	2434056.58	PI
23	6869102.83	2434059.07	PI
24	6869077.54	2434128.61	PI
25	6869054.73	2434112.86	PI
26	6868998.45	2434092.06	PI
27	6868989.07	2434088.60	PI
28	6868914.03	2434060.87	PI
29	6868878.83	2433998.23	PI
30	6868860.69	2433969.41	PI
31	6868860.49	2433929.41	PI

Point #	Northing	Easting	Des
32	6868860.44	2433919.41	PI
33	6868860.00	2433829.41	PI
34	6868859.95	2433819.41	PI
<i>35</i>	6868859.51	2433729.41	PI
36	6868827.19	2433728.71	PI
37	6869220.67	2434152.86	PI
38	6869216.45	2434172.63	PI
39	6869300.87	2434203.82	PI
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42	6869405.59	2434223.34	PI
43	6869628.76	2434263.46	PI
44	6869647.21	2434267.16	PI
45	6869647.94	2434337.14	PI
46	6869648.04	2434347.16	PI
47	6869648.76	2434417.14	PI
48	6869648.87	2434427.14	PI
49	6869649.59	2434497.15	PI
50	6869631.54	2434501.74	PI
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52	6869654.55	2434251.59	FENC
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55	6868958.37	2433670.12	FENC
56	6869125.15	2433670.12	FENC
57	6869144.80	2433949.71	FENC
58	6869143.80	2433949.72	FENC
59	6869143.66	2433921.63	FEN
60	6869099.07	2433921.84	FENC
61	6868935.40	2433927.63	FENC

no.	revision	by	date





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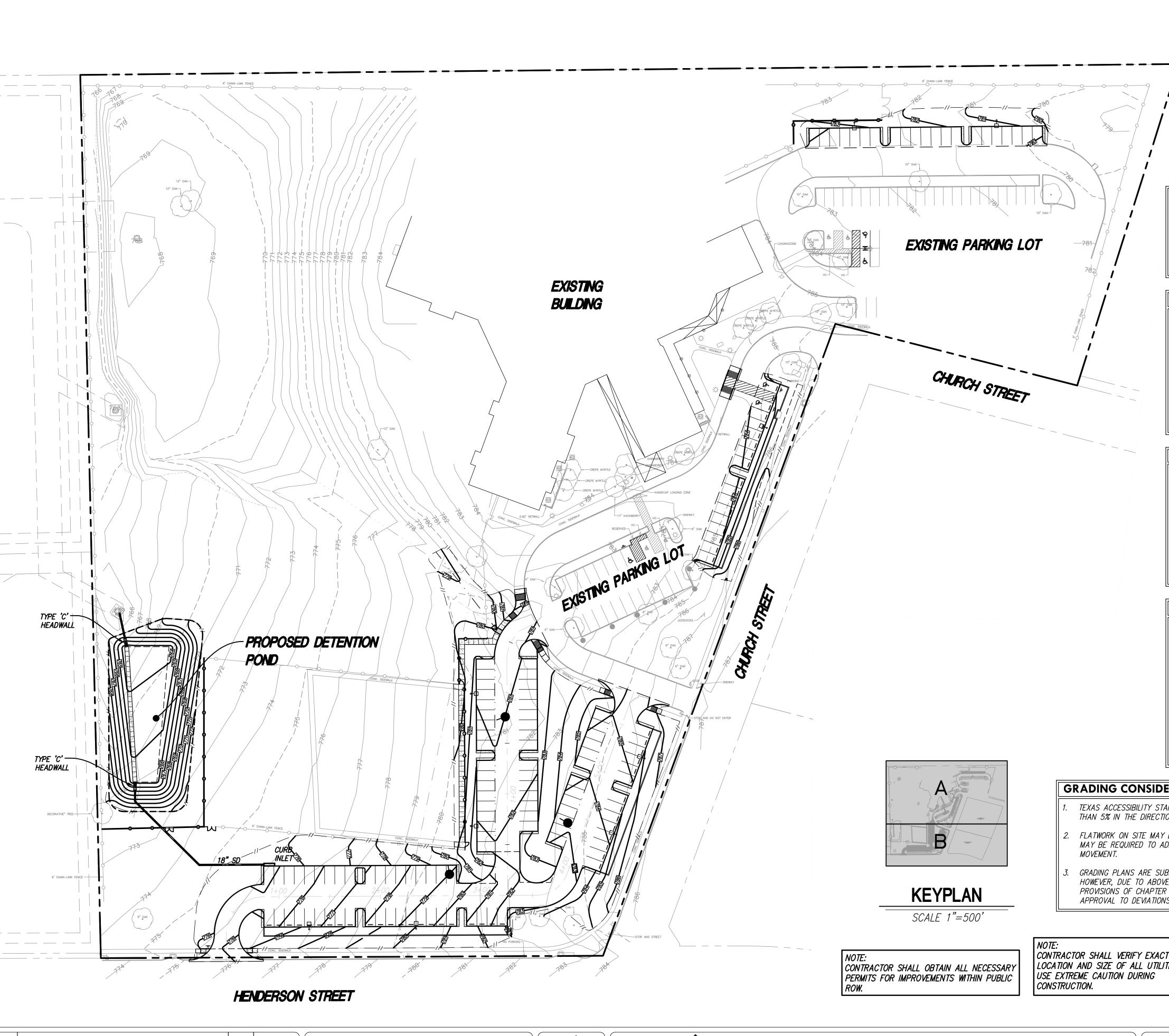


City of	Mid	lothian,	Texas
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Parking Lot to Serve
VITOVSKY ELEMENTARY
DIMENSIONAL CONTROL PLAN

- SECTION B

tnp project
MLT23062
sheet
C1.10



GRADING LEGEND

(79.20) EXISTING SPOT ELEVATION 79.20 PROPOSED SPOT ELEVATION _______ PROPOSED PERCENT OF GRADE —655— PROPOSED CONTOUR — — — GRADE BREAK/RIDGE LINE

----- PROPOSED SWALE LINE — — //— — PROPOSED DAYLIGHT LINE ——633—— EXISTING CONTOURS

ALL CURB INLETS TOPS AND **CATCH BASINS IN PAVEMENT AREAS SHALL BE CAST-IN-PLACE** ONLY. PRECAST BOTTOMS ARE **ALLOWED IN PAVED AREAS.**

DRAINAGE NOTES

- . ALL DIMENSIONS ARE TO FACE OF BUILDING.
- 2. REFER TO THE GRADING PLAN FOR THE FINISH FLOOR ELEVATIONS AND THE PERIMETER GRADES.
- 3. ALL STORM DRAIN LINES ARE TO BE HDPE/RCP UNLESS OTHERWISE NOTED.

4. CONTRACTOR SHALL UTILIZE NECESSARY MEASURES, INCLUDING TEMPORARY PUMPING IN THE ORDER TO DRAIN STORM WATER OFFSITE UNTIL THE PUBLIC DRAINAGE IMPROVEMENTS ARE INSTALLED AND OPERATIONAL.

DRAINAGE SPECIFICATIONS

- HDPE SHALL BE HEAVY WALL MEETING THE REQUIREMENTS OF ASTM 2648 AND ASTM F477. HDPE SHALL BE ADS N-12 (WATERTIGHT) OR EQUAL, CORRUGATED EXTERIOR W/ SMOOTH LINED INTERIOR.
- . HP PIPE SHALL BE ADS HP STORM POLYPROPYLENE PIPE (DUAL WALL) MEETING THE REQUIREMENTS OF AASHTO M330, ASTM F2736 AND ASTM F2881 WITH SMOOTH INNER WALL AND ANNULAR EXTERIOR CORRUGATIONS OR APPROVED EQUAL.
- 3. ALL PIPE, COUPLINGS, TEES, & BENDS SHALL BE HDPE WATERTIGHT SEWER GRADE GASKETED PVC FITTINGS.

UTILITY NOTE

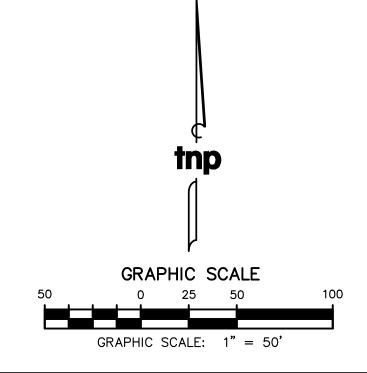
THE UTILITIES SHOWN ON THE PLANS WERE COMPILED FROM VARIOUS SOURCES AND ARE INTENDED TO SHOW THE GENERAL EXISTENCE AND LOCATION OF UTILITIES IN THE AREA OF CONSTRUCTION. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE UTILITY INFORMATION SHOWN ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT UTILITY COMPANIES 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES IN ORDER TO DETERMINE IF THERE IS ANY CONFLICT WITH THE PROPOSED FACILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS WITH EXISTING UTILITIES ARE DISCOVERED.

GRADING CONSIDERATIONS

- TEXAS ACCESSIBILITY STANDARDS (TAS) REQUIRE ACCESSIBLE ROUTES SLOPE NO MORE THAN 5% IN THE DIRECTION OF TRAVEL WITH A MAXIMUM OF 2% CROSS-SLOPE.
- FLATWORK ON SITE MAY BE SUBJECT TO POTENTIAL VERTICAL MOVEMENT. MAINTENANCE MAY BE REQUIRED TO ADDRESS FLATWORK CHANGES DUE TO POTENTIAL VERTICAL
- GRADING PLANS ARE SUBMITTED IN ACCORDANCE WITH INDUSTRY STANDARD OF CARE. HOWEVER, DUE TO ABOVE THE ABOVE TAS RESTRICTIONS, MAY NOT COMPLY WITH ALL PROVISIONS OF CHAPTER 18 OF THE IBC. APPROVAL OF THESE PLANS IS CONSIDERED APPROVAL TO DEVIATIONS FROM CHAPTER 18 OF THE IBC ASSOCIATED WITH SITE GRADING.

CONTRACTOR SHALL VERIFY EXACT LOCATION AND SIZE OF ALL UTILITIES AND

ALL TRAFFIC CONTROL SIGNS, BARRICADES, AND FLAGGING SHALL BE IN ACCORDANCE WITH THE CURRENT TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND PHASING.



GRADING NOTES

- THE GRADING OF THE DIFFERENT AREAS SHOWN ON THE SITE SHALL BE COMPACTED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS WHICH SHALL BE CONSIDERED AS PART OF THESE DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINE GRADING TO THE SUBGRADE OF ALL PAVED AREAS TO ALLOW FOR THE PAVEMENT SECTIONS. CONTRACTOR SHALL GRADE AND COMPACT ALL AREAS UNDER PAVEMENT TO ALLOW FOR THE RESPECTIVE PAVING SECTIONS AND SHALL MAINTAIN THESE FINISHED GRADES AS SHOWN UNTIL FINAL ACCEPTANCE.
- CONTRACTOR IS REQUIRED TO INSTALL AND MAINTAIN EROSION CONTROL AT ALL TIMES THROUGHOUT THE PROJECT.
- THE SPREADING AND COMPACTION OF ANY WASTE OR EXCESS MATERIAL NOT SUITABLE FOR FILLING, SUCH AS LARGE ROCK, CONCRETE, TREES, TRASH AND VEGETATION, SHALL BE DISPOSED OFFSITE AT THE CONTRACTOR'S EXPENSE ONLY IN THOSE AREAS APPROVED FOR DISPOSING OF WASTE MATERIAL. THE CONTRACTOR SHALL NOT DISPOSE OF ANY WASTE MATERIAL ON ADJACENT PROPERTY OWNER'S OR OTHER AREAS WHICH ARE NOT LEGALLY ACCEPTED BY THE CITY. NO BURNING OF ANY MATERIAL AT ANY TIME SHALL BE ALLOWED ON THIS SITE UNLESS PERMITTED BY CITY ORDINANCES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SAFETY LAWS IN ACCORDANCE WITH THE CITY, STATE AND FEDERAL LAWS WHICH GOVERN CONSTRUCTION.
- ALL AREAS TO BE FILLED SHALL BE FILLED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS. ALL VEGETATION, TREES, ROCKS AND OBJECTIONABLE MATERIALS SHALL BE REMOVED BY THE CONTRACTOR FROM THE SURFACE OF WHICH THE FILL IS PLACED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE, SPREAD, WATER AND COMPACT THE FILL IN STRICT ACCORDANCE WITH THE SPECIFICATIONS FOR THIS PROJECT.
- ALL DRIVE, PARKING AREAS, CUT AND FILL SLOPES, BUILDING PADS AND OPEN SPACE AREAS SHALL BE TRIMMED AND COMPACTED TO THE FINISHED GRADE TO PRODUCE SMOOTH SURFACES AND UNIFORM CROSS-SECTIONS. THE SLOPES OF ALL EXCAVATIONS AND EMBANKMENTS SHALL BE LEFT IN A NEAT AND ORDERLY CONDITION. ALL STONES, ROOTS, TREES, AND OTHER WASTE MATERIAL SHALL BE REMOVED AND DISPOSED OFF SITE. ALL VOIDS SHALL BE FILLED AND ANY SOFT SPOTS OCCURRING ON THIS SITE SHALL BE RECOMPACTED PER THE SPECIFICATIONS. VERIFY ALL GRADES TO AVOID PONDING OF WATER.
- NO ADJUSTMENT OF GRADES WILL BE PERMITTED TO ANY STRUCTURES. PAVEMENT OR WALK SURFACES. SHOULD THE CONTRACTOR DETERMINE THERE IS A DEFICIENCY OF MATERIAL, THEN ALLOWANCE WILL MADE IN THE CONTRACT TO IMPORT A CLEAN MATERIAL SUITABLE FOR FILLING. THE OWNER'S LABORATORY WILL BE ALLOWED TO TEST AND INSPECT THE BORROW SITE PRIOR TO BEGINNING HIS FILLING OPERATIONS. EXCESS EXCAVATED MATERIAL SHALL BE DISPOSED OFFSITE AS REQUIRED.
- THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT SCOPE OF WORK. THE CONTRACTOR SHALL REMOVE ALL VEGETATION FROM THE LIMITS OF THE PROPOSED IMPROVEMENTS. ALL TREES OUTSIDE THE LIMITS OF CONSTRUCTION SHALL REMAIN UNLESS NOTED ON THE PLANS TO BE REMOVED OR APPROVED BY THE OWNER.
- 10. ALL WALKS SHALL NOT EXCEED THE MAXIMUM SLOPES ALLOWED BY THE TEXAS ACCECCIBILITY STANDARDS (TAS), UNLESS INDICATED. THE MAXIMUM CROSS SLOPE IS 2% AND THE MAXIMUM DIRECTIONAL SLOPE IS 5%.
- 11. ALL SPOT GRADES ARE FOR PROPOSED EDGE OF PAVEMENT OR GUTTER

ELEVATIONS. UNLESS INDICATED OTHERWISE.

- ALL AREAS SHALL BE TRIMMED AND COMPACTED TO THE FINISHED GRADE TO PRODUCE SMOOTH SURFACES AND UNIFORM CROSS— SECTIONS. THE SLOPES OF ALL EXCAVATIONS AND EMBANKMENTS SHALL BE LEFT IN A NEAT AND ORDERLY CONDITION. ALL STONES, ROOTS, TREES, AND OTHER WASTE MATERIAL SHALL BE REMOVED AND DISPOSED OFF SITE. ALL VOIDS SHALL BE FILLED AND ANY SOFT SPOTS OCCURRING ON THIS SITE SHALL BE RECOMPACTED PER THE SPECIFICATIONS. VERIFY ALL GRADES TO AVOID PONDING OF WATER.
- EXISTING DEPRESSED AREAS, WHICH HOLD SURFACE WATER, SHALL BE PUMPED DRY. EXISTING SOGGY MATERIALS SHALL BE EXCAVATED AND REMOVED UNTIL A STABILE DRY MATERIAL IS AVAILABLE. THIS EXPOSED MATERIAL SHALL BE COMPACTED TO 95% STD PROCTOR. ON SITE MATERIAL SHALL BE PLACED IN 8" MAX LIFTS AND COMPACTED TO MAX 95% STD PROCTOR AT OPTIMUM MOISTURE CONTENT.
- IN THE EVENT THE CONTRACTOR WILL BE STOCKPILING DIRT ON SITE, THE LOCATION OF THE STOCKPILE SHALL BE PLACED IN A LOCATION SO AS NOT TO CAUSE A DIVERSION OR CHANGE OF THE DRAINAGE PATTERNS THAT WILL IMPACT OFFSITE PROPERTIES.
- REFERENCE LANDSCAPE PLANS FOR LIMITS OF LANDSCAPE AND SEEDING/SODDING. IN THE EVENT AN AREA IS DISTURBED DUE TO CONSTRUCTION OR GRADING AND IS NOT CALLED OUT FOR TREATMENT UNDER THE LANDSCAPE PLAN, THEN THE MINIMUM REQUIRED TREATMENT SHALL BE HYDRO MULCH SEEDING. IN SOME INSTANCES THE PLANS WILL REQUIRE BLOCK SODDING TO STABILIZE SLOPES.

no.	revision	bv	date
1	GRADING/STORM DRAIN REVISIONS		06/06/2022







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City of Midlothian, Texas

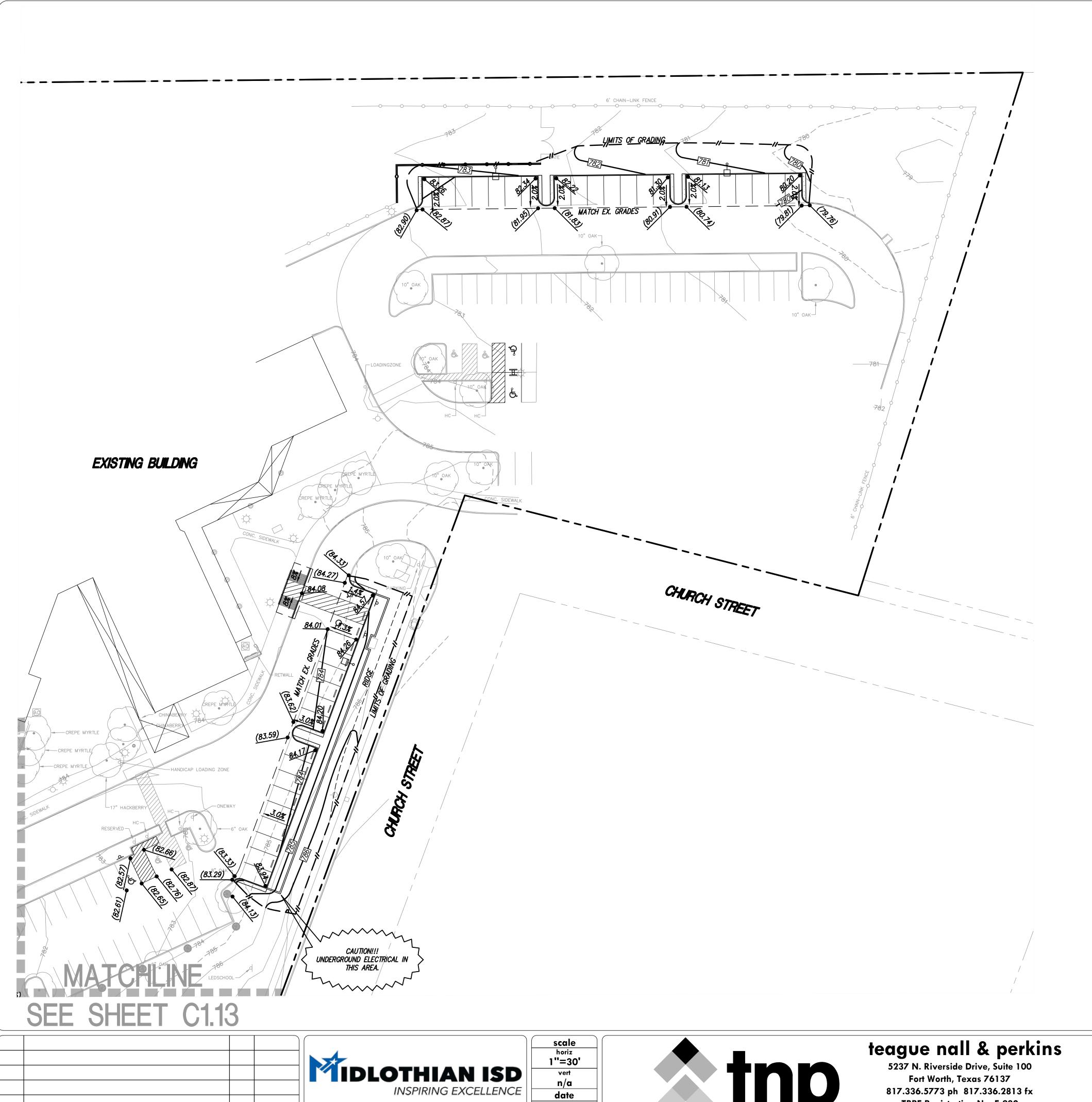
Parking Lot to Serve

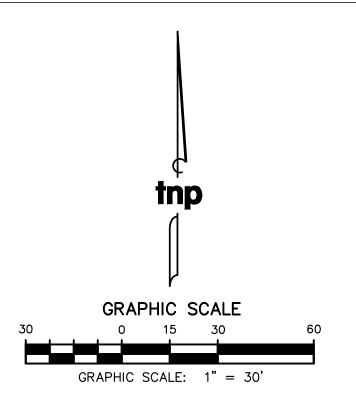
VITOVSKY ELEMENTARY OVERALL GRADING &

STORM DRAIN PLAN

sheet C1.11

MLT23062



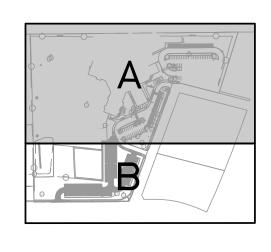


GRADING LEGEND

(79.20) EXISTING SPOT ELEVATION 79.20 PROPOSED SPOT ELEVATION PROPOSED PERCENT OF GRADE

—655 — PROPOSED CONTOUR — — — GRADE BREAK/RIDGE LINE ----- PROPOSED SWALE LINE

— —//— — PROPOSED DAYLIGHT LINE ——633—— EXISTING CONTOURS



KEYPLAN

SCALE 1"=500'

by date revision





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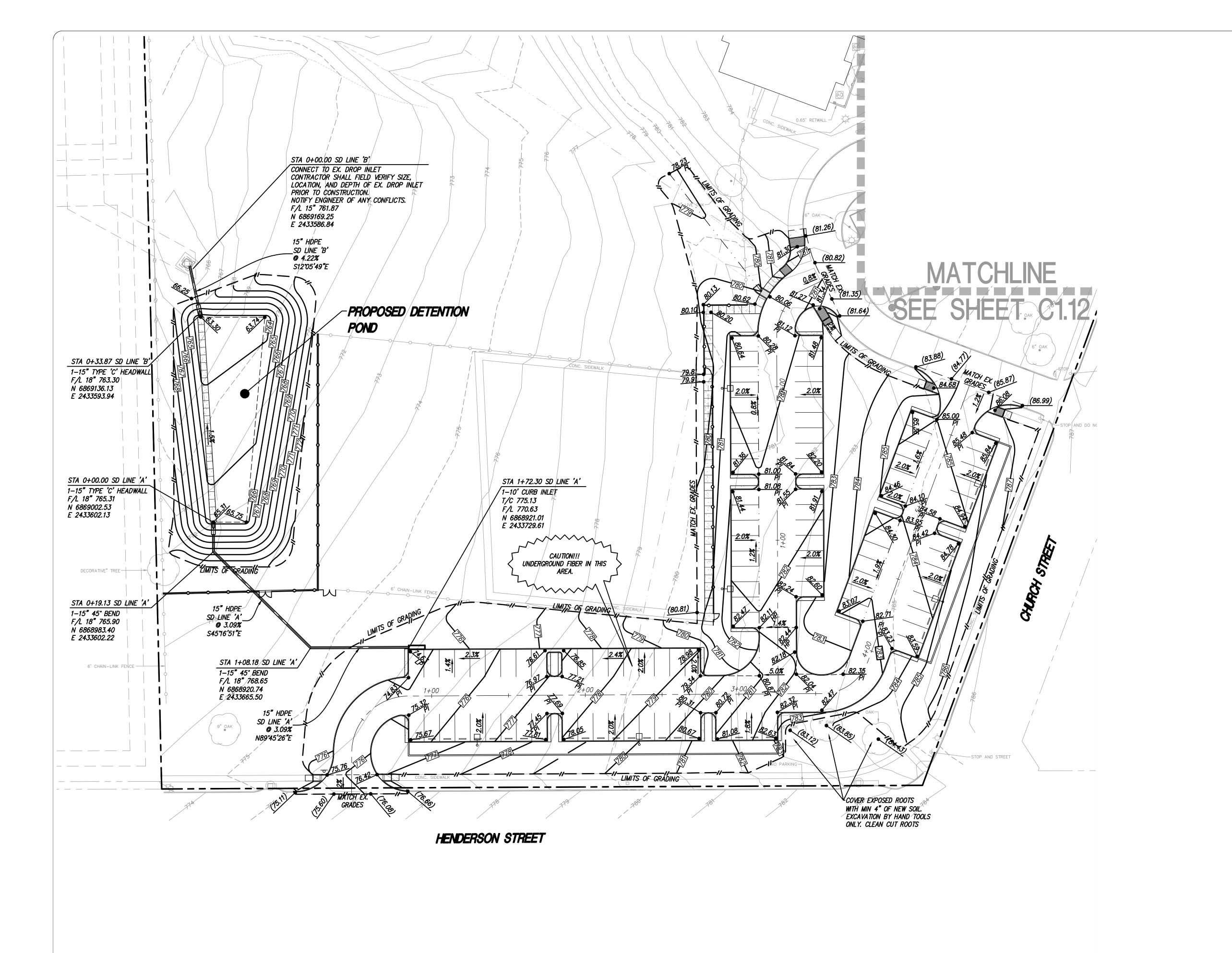
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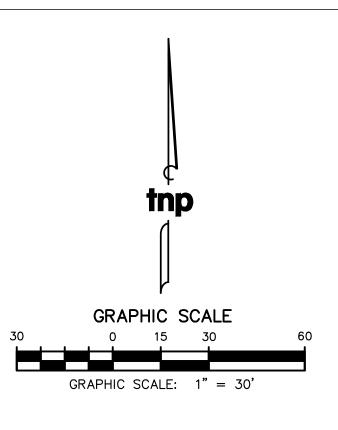


City	of	Mid	lothi	ian,	Texas

Parking Lot to Serve
VITOVSKY ELEMENTARY **GRADING AND STORM DRAIN PLAN - SECTION A**

tnp project
MLT23062 sheet



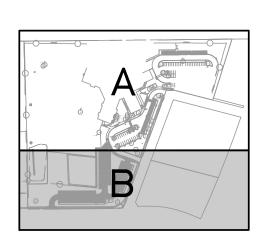


GRADING LEGEND

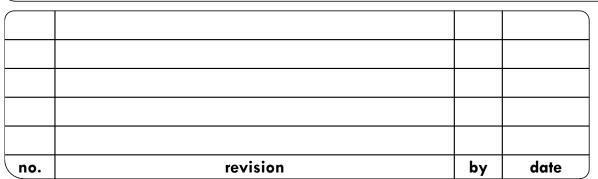
(79.20) EXISTING SPOT ELEVATION 79.20 PROPOSED SPOT ELEVATION

PROPOSED PERCENT OF GRADE —655 PROPOSED CONTOUR — — — GRADE BREAK/RIDGE LINE

----- PROPOSED SWALE LINE — —//— — PROPOSED DAYLIGHT LINE — 633— EXISTING CONTOURS



KEYPLAN SCALE 1"=500'





vert n/a

date

APRIL 2023



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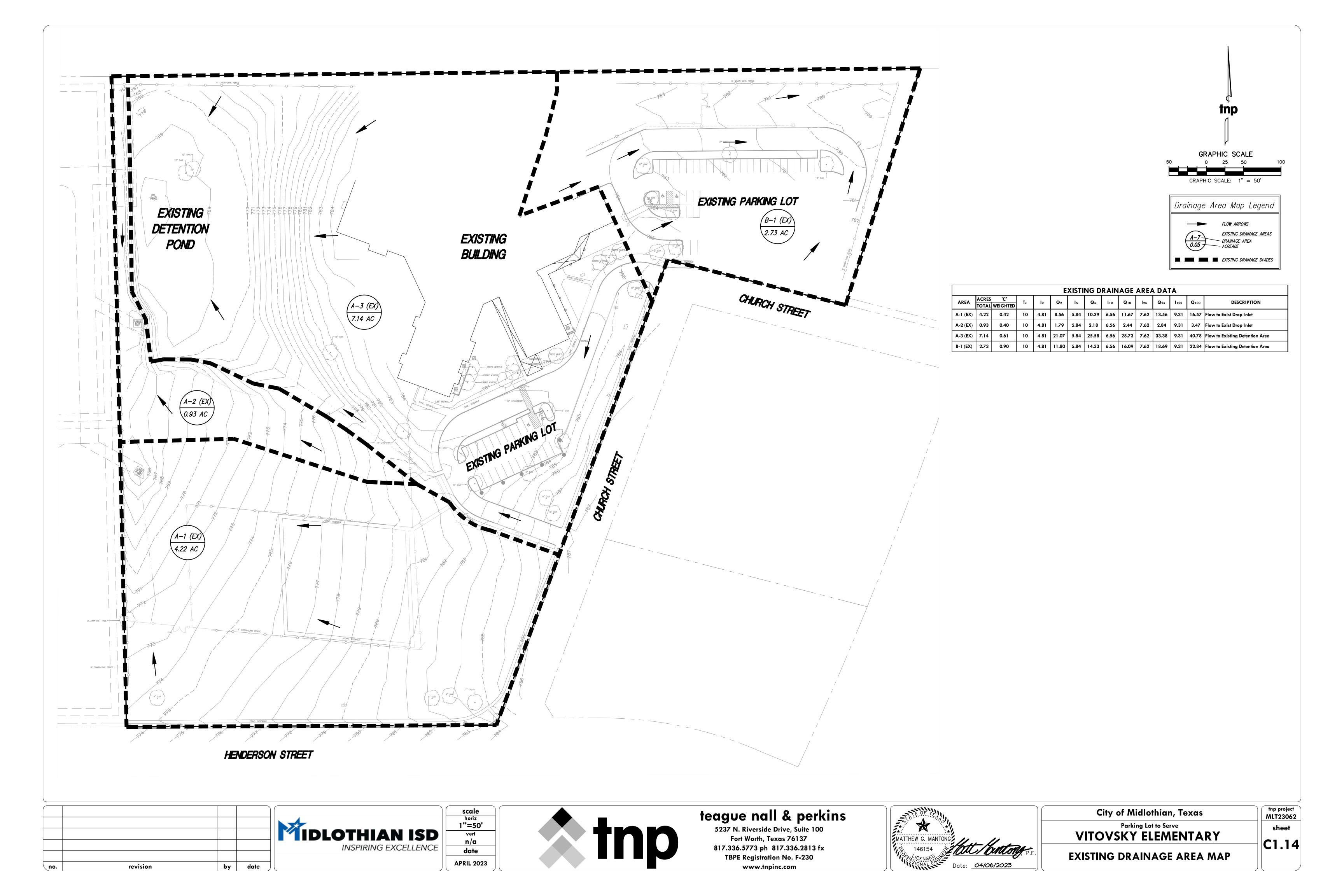
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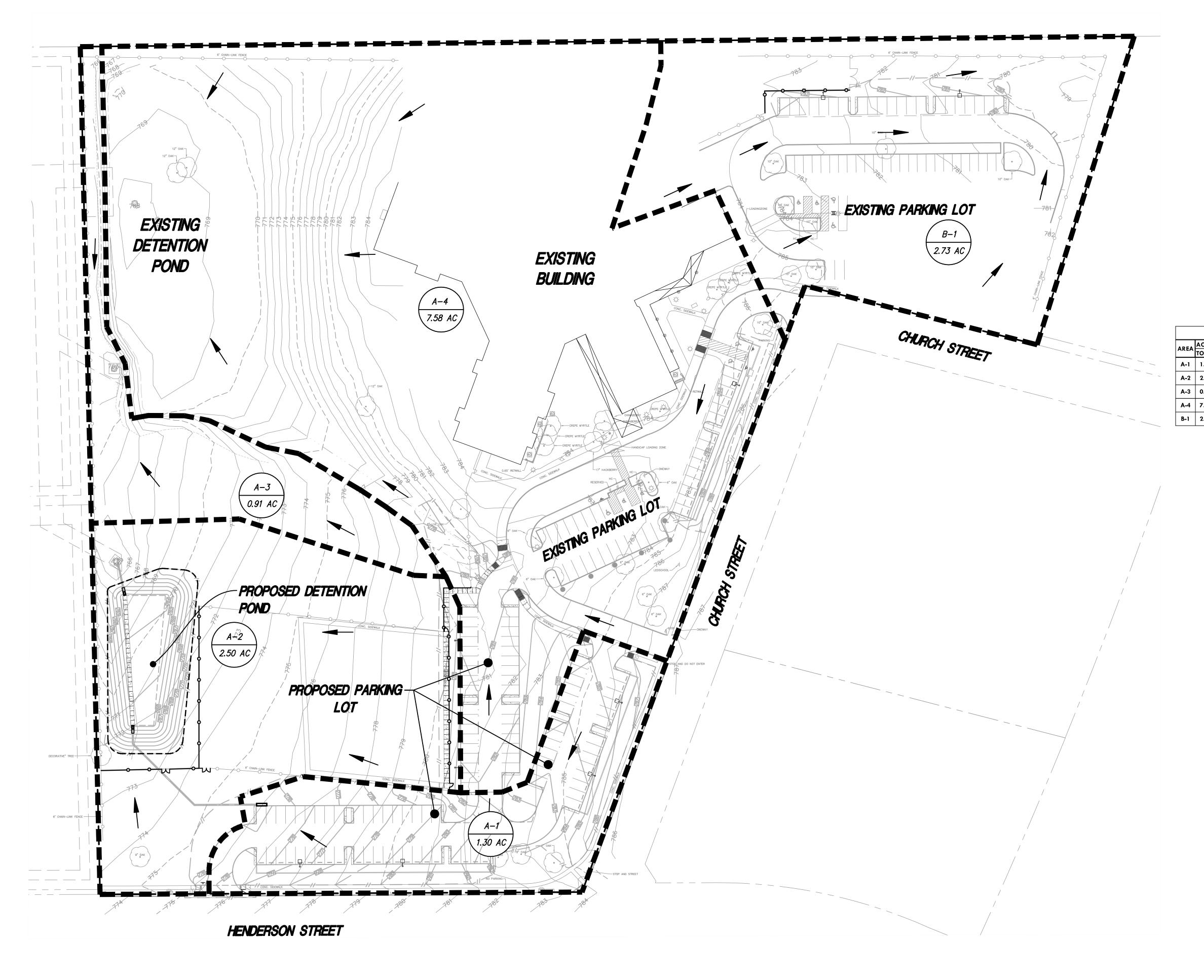


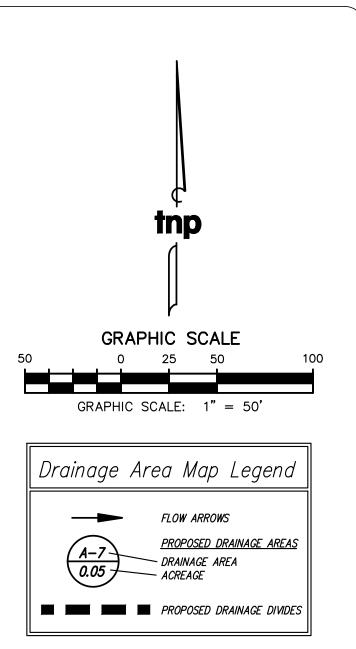
City	of	Midlothian, Texas	
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Parking Lot to Serve **VITOVSKY ELEMENTARY GRADING AND STORM DRAIN PLAN - SECTION B**

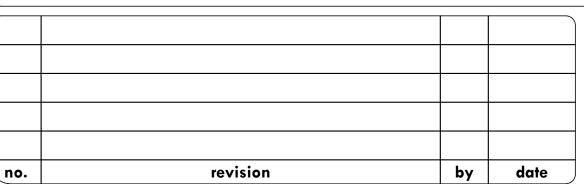
MLT23062 sheet







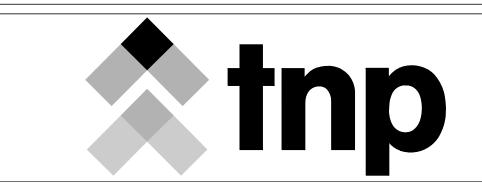
	PROPOSED DRAINAGE AREA DATA													
REA	ACRES TOTAL	'C' WEIGHTED	Tc	l ₂	Q ₂	15	Q ₅	l10	Q 10	125	Q ₂₅	I100	Q100	DESCRIPTION
A- 1	1.30	0.71	10	4.81	4.42	5.84	5.37	6.56	6.03	7.62	7.00	9.31	8.56	Flow to Proposed Curb Inlet
A-2	2.50	0.42	10	4.81	5.08	5.84	6.17	6.56	6.93	7.62	8.05	9.31	9.83	Flow to Proposed Detention Pond
A-3	0.91	0.40	10	4.81	1.76	5.84	2.13	6.56	2.40	7.62	2.78	9.31	3.40	Flow to Existing Drop Inlet
A-4	7.58	0.63	10	4.81	22.80	5.84	27.68	6.56	31.09	7.62	36.12	9.31	44.13	Flow to Existing Detention Area
B-1	2.73	0.90	10	4.81	11.80	5.84	14.33	6.56	16.09	7.62	18.69	9.31	22.84	Flow to Existing Detention Area





scale horiz 1"=50'

vert n/a date



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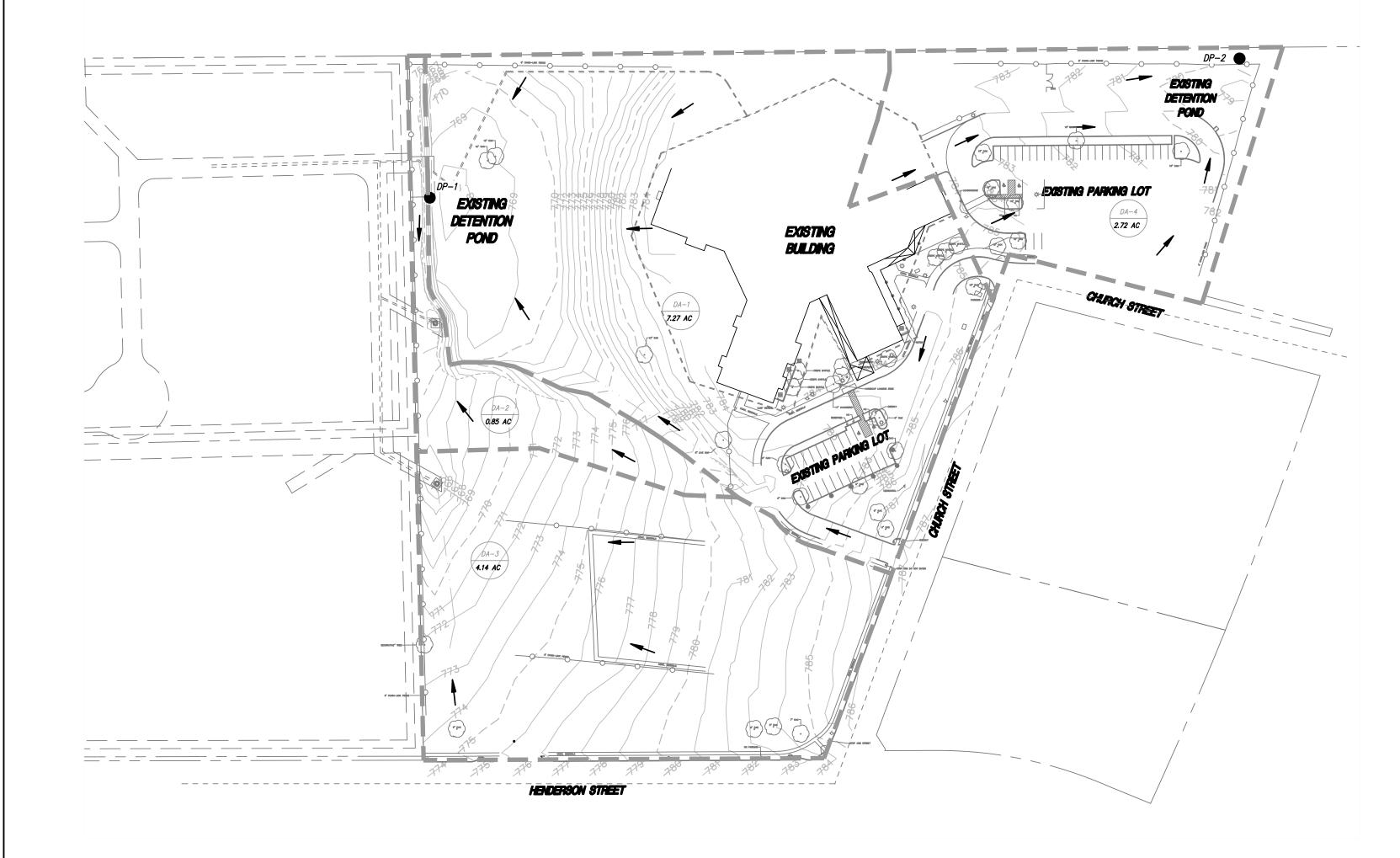
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City	of	Mid	lothian,	Texas
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Parking Lot to Serve
VITOVSKY ELEMENTARY PROPOSED DRAINAGE AREA MAP tnp project
MLT23062 sheet

EXISTING DRAINAGE AREA MAP



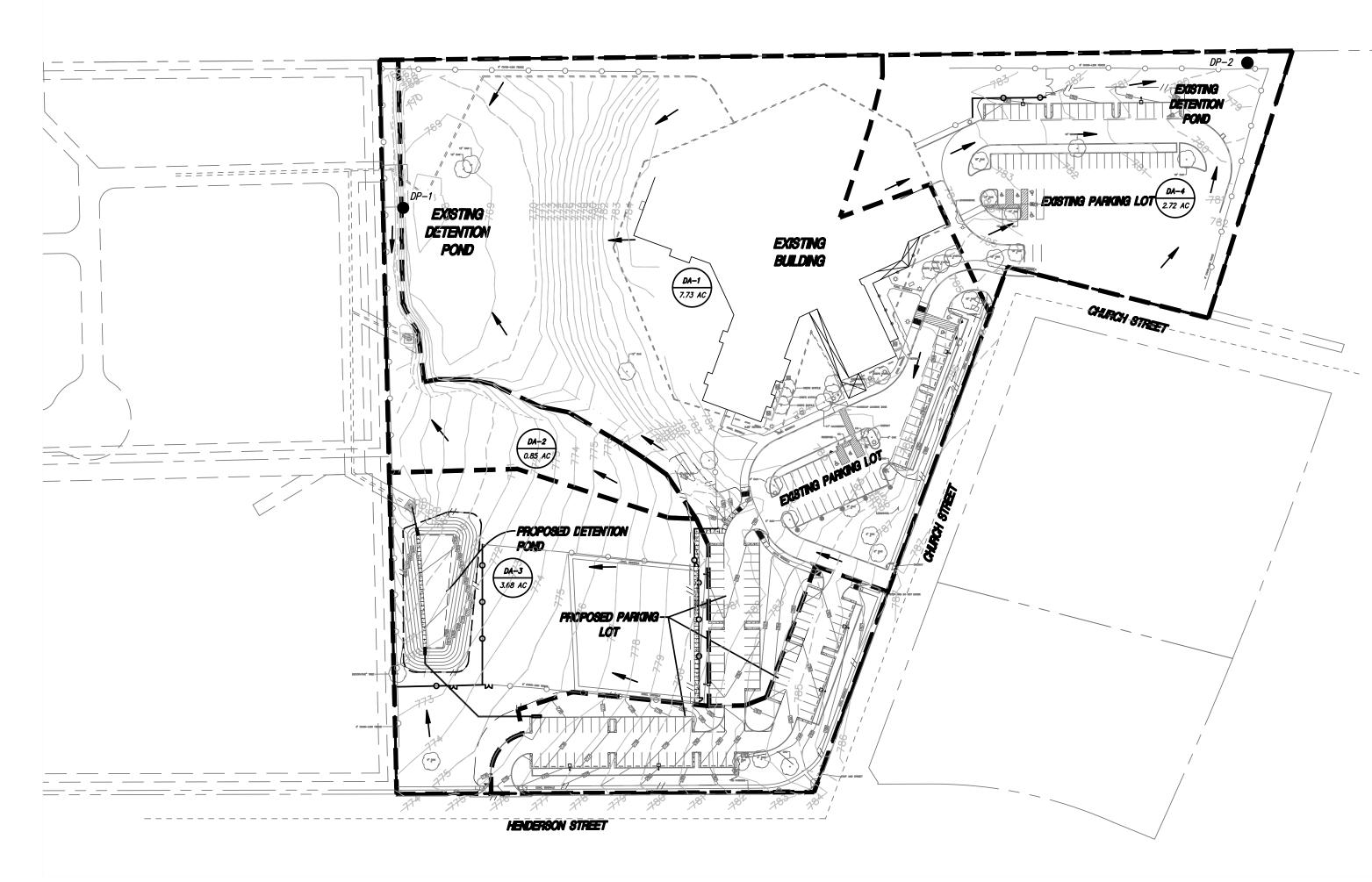
PRE-PROJECT HYDROLOGIC SUMMARY

Basin ID Area (ac) Runo		D eff 'C'	TC (main)	Intensity (in/hr)					Outflows (cfs)				
basin ib	Area (ac)	KUNOTT C	(min)	i2	i5	i10	i25	i100	Q2	Q 5	Q10	Q25	Q100
DA-1	7.27	0.55	18	3.50	4.56	5.37	6.42	7.99	13.99	18.23	21.47	25.67	31.95
DA-2	0.85	0.35	11	4.32	5.63	6.63	7.95	9.96	1.29	1.67	1.97	2.37	2.96
DA-3	4.14	0.35	11	4.32	5.63	6.63	7.95	9.96	6.26	8.16	9.61	11.52	14.43
DA-4	2.72	0.64	15	3.73	4.86	5.72	6.84	8.5 1	6.49	8.46	9.96	11.91	14.81

DESIGN POINT SUMMARY

Design	2 Year		5 Year		10 Year		25 Year		100 Year	
Point	Existing	Proposed								
DP-1	13.91	12.72	21.14	18.66	26.09	24.32	32.24	30.88	41.17	40.68
DP-2	5.30	5.46	6.32	6.43	6.97	7.12	7.96	8.16	9.33	9.33

PROPOSED DRAINAGE AREA MAP

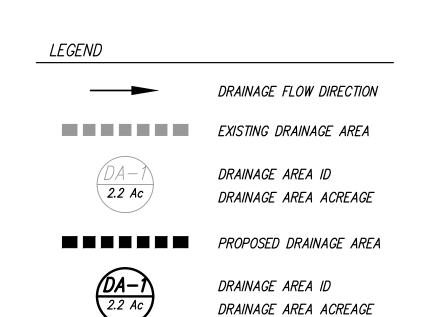


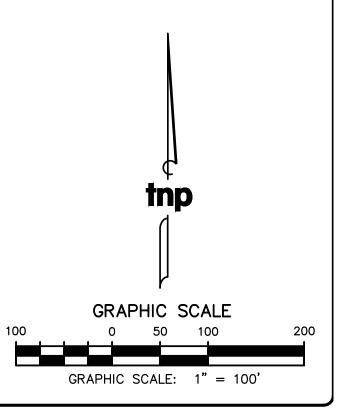
POST-PROJECT HYDROLOGIC SUMMARY

Parsin ID Are	A ** 0 ** (** 0 *)	Runoff 'C'	TC (min)	Intensity (in/hr)						Outflows (cfs)				
basin ib	Area (ac)			i2	i5	i10	i25	i100	Q2	Q5	Q10	Q25	Q100	
DA-1	7.73	0.56	18	3.50	4.56	5.37	6.42	7.99	15.15	19.74	23.25	27.79	34.59	
DA-2	0.85	0.35	11	4.32	5.63	6.63	7.95	9.96	1.29	1.67	1.97	2.37	2.96	
DA-3	3.68	0.46	11	4.32	5.63	6.63	7.95	9.96	<i>7</i> .31	9.53	11.22	13.46	16.86	
DA-4	2.72	0.66	15	3.73	4.86	5.72	6.84	8.51	6.70	8.72	10.27	12.28	15.28	

- <u>NOTES:</u>
 1. Additional information and calculations can
 be found in the Vitovsky Elementary Drainage
- Study (March 2023).

 2. Per City criteria, Pond routing was completed using the rational method and the PondPack Software.
- Increases in discharge due to proposed site development are anticipated to be mitigated using the existing and proposed detention
- At least 1.00' of freeboard is provided in the detention ponds for the 100-year storms. 5. The times of concentration were computed
- as the sum of sheet, shallow, and channelized flow times and were then used to determine the intensities from the 2010 iSWM Technical Manual. 6. Post—Project hydrology accounts for the development of proposed parking lots with a detention pond in DA-3





tnp project

MLT23062

sheet

C1.16

no.	revision	bv	date



scale

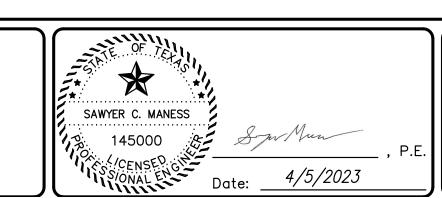
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City of Midlothian, Texas
Parking Lot to Serve VITOVSKY ELEMENTARY
PROPOSED DETENTION POND (1 OF 2)

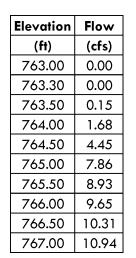
PROPOSED POND VOLUME SUMMARY

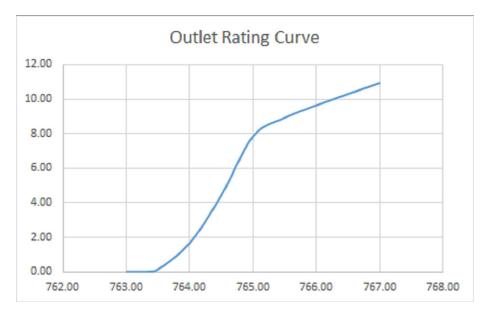
Elevation	Area	Incr. Volume *	Cuml. Volume	Commonto
(ft)	(acres)	(acre-ft)	(acre-ft)	Comments
763.00	0.00	0.000	0.000	Outfall Flowline
764.00	0.04	0.012	0.012	
765.00	0.11	0.067	0.079	
766.00	0.16	0.132	0.211	
766.25	0.19	0.044	0.255	Top of Pond

PROPOSED POND SUMMARY

Return E∨ent	Pond Inflow	Pond Outflow	WSEL	Freeboard	Pond Storage
(years)	(cfs)	(cfs)	(ft)	(ft)	(ac-ft)
2	6.69	4.70	764.54	1.68	0.04
5	8.75	5.86	764.71	1.51	0.05
10	10.29	6.74	764.84	1.38	0.06
25	12.34	7.88	<i>7</i> 65.01	1.21	0.08
100	15.46	8.40	765.25	1.00	0.11

PROPOSED POND OUTLET **RATING CURVE 15" ORIFICE PLATE**

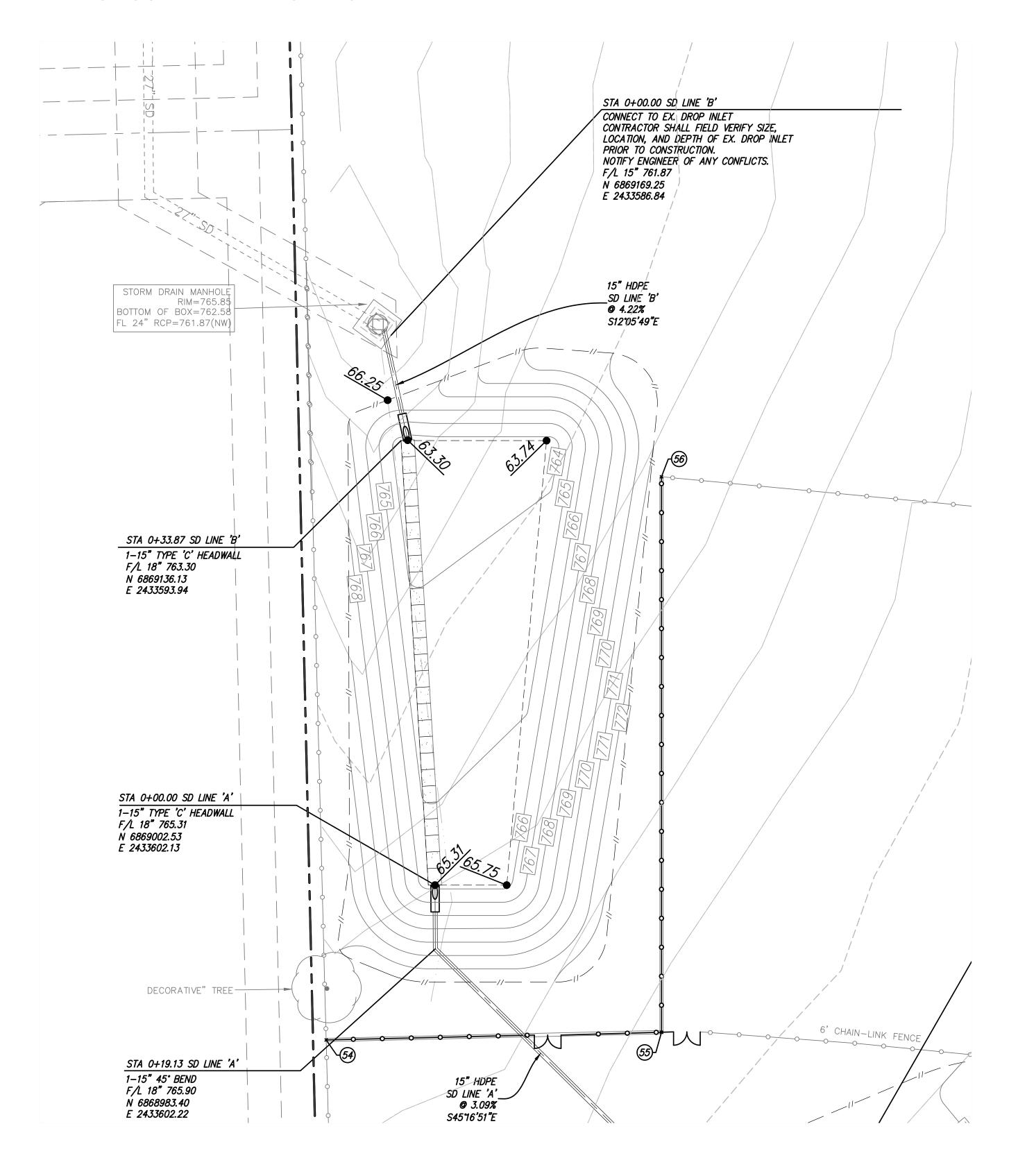


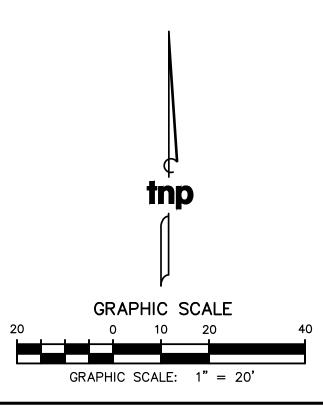


NOTES:
1. Additional information and calculations can be found in the Vitovsky Elementary Drainage

- Study (March 2023).
 2. Per City criteria, Pond routing was completed using the rational method and the PondPack Software.
- 3. Increases in discharge due to proposed site development are anticipated to be mitigated using the existing and proposed detention ponds.
- 4. At least 1.00' of freeboard is provided in the detention ponds for the 100-year storms.
- 5. The times of concentration were computed as the sum of sheet, shallow, and channelized flow times and were then used to determine the intensities from the 2010 iSWM Technical Manual.
- 6. Post—Project hydrology accounts for the development of proposed parking lots with a detention pond in DA-3

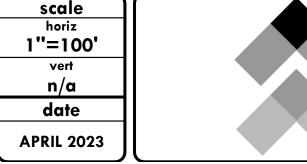
PROPOSED DETENTION POND





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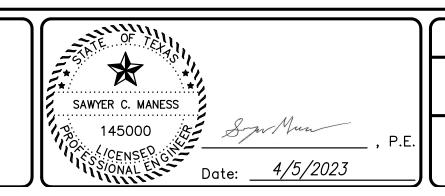








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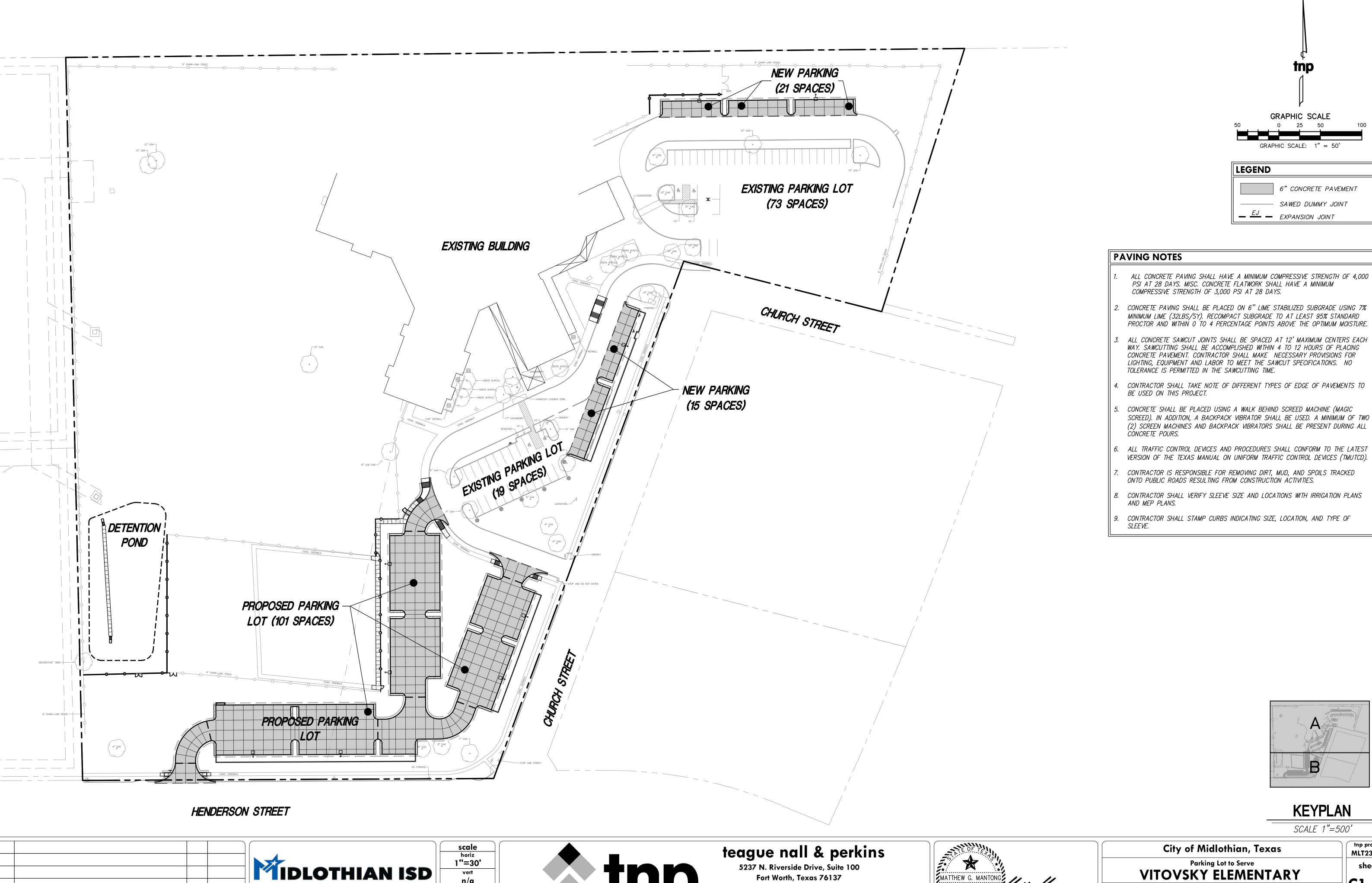


City of Midlothian, Texas

Parking Lot to Serve **VITOVSKY ELEMENTARY**

PROPOSED DETENTION POND (2 OF 2)

MLT23062 sheet



vert

n/a

date

APRIL 2023

INSPIRING EXCELLENCE

by

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revision

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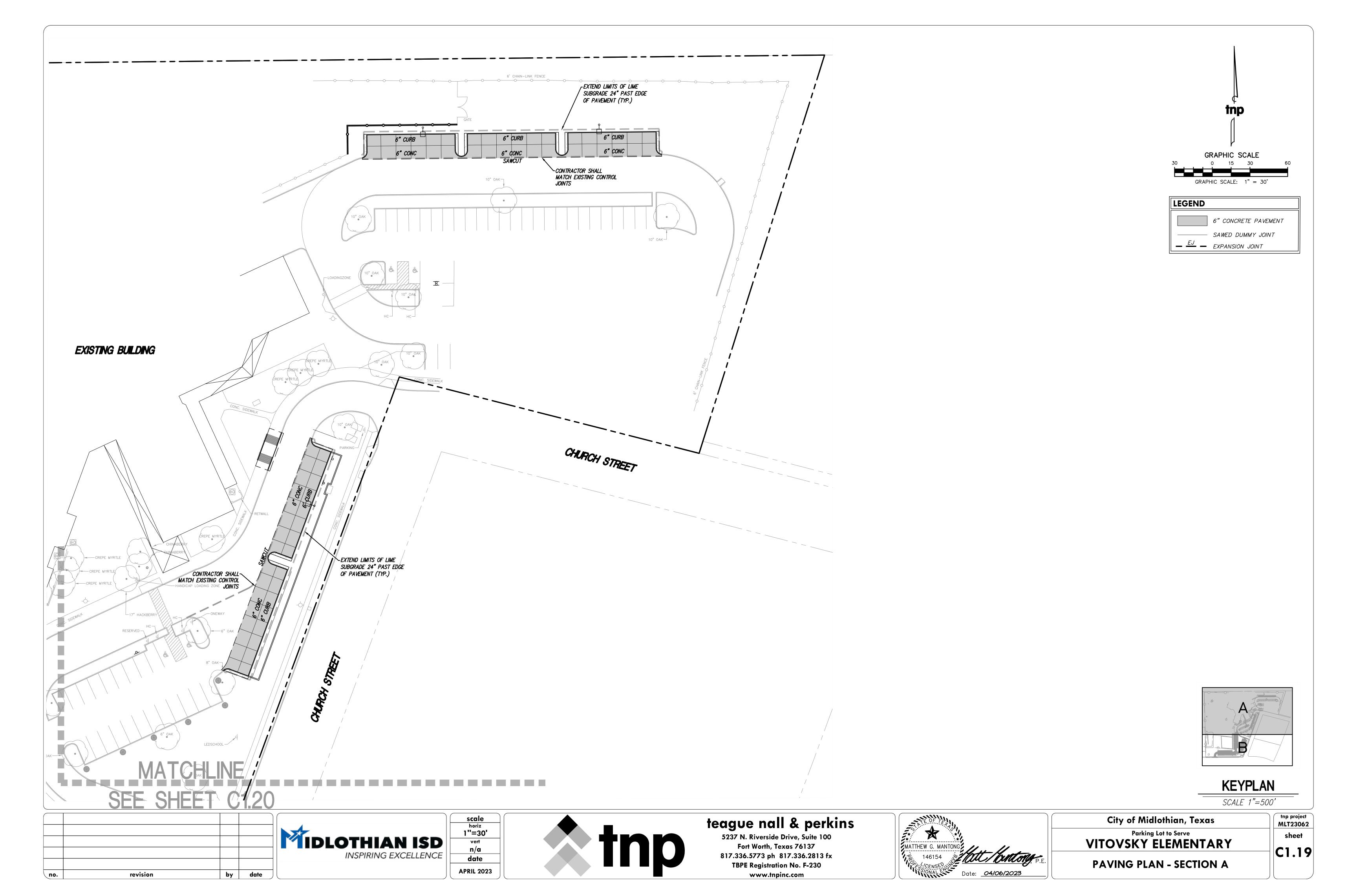
Parking Lot to Serve

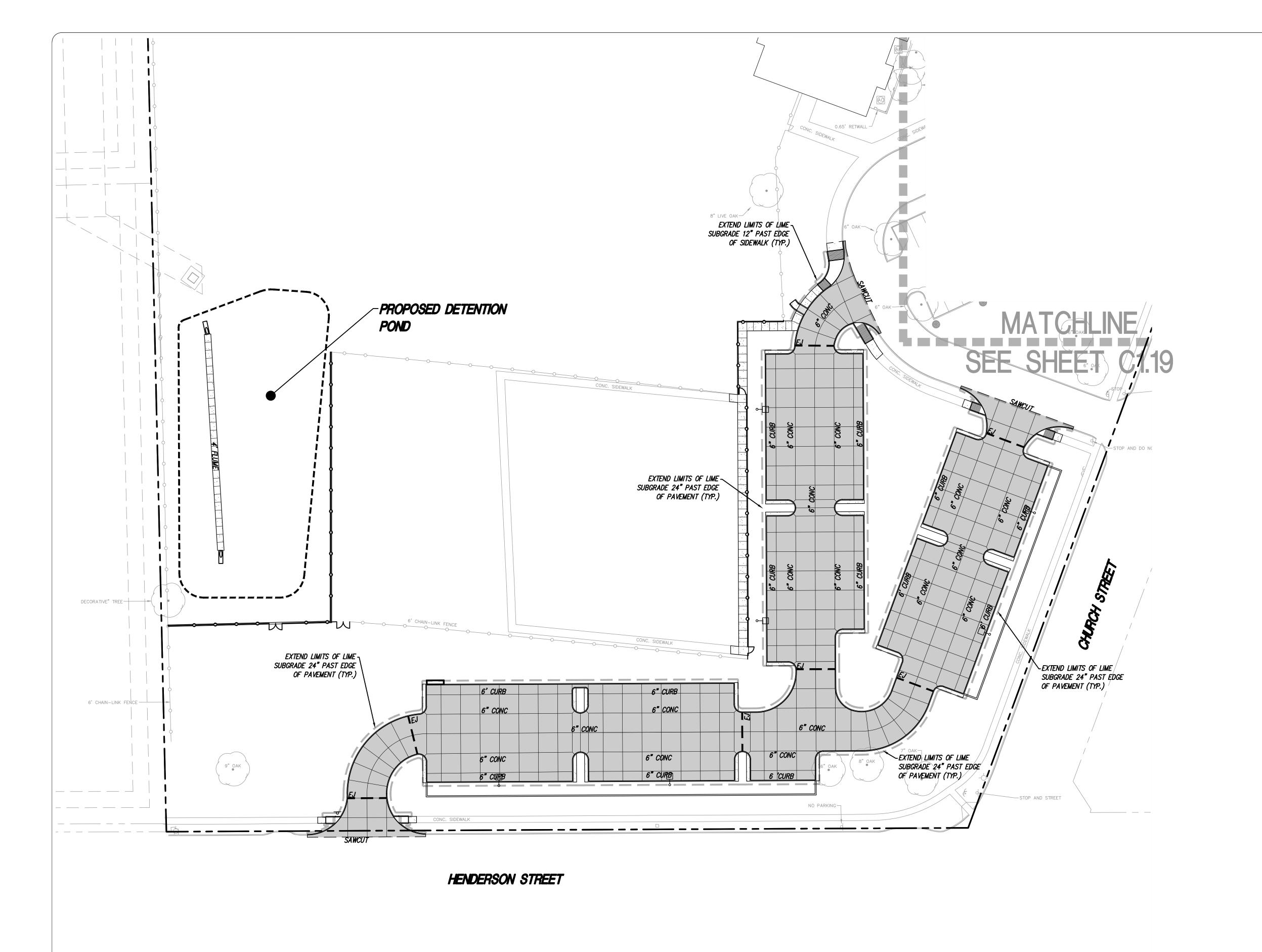
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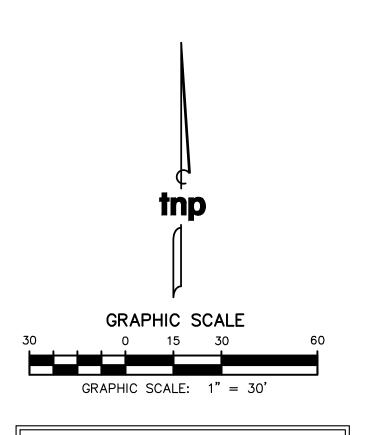
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VITOVSKY ELEMENTARY OVERALL PAVING PLAN





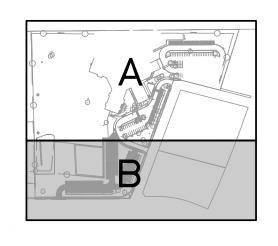


LEGEND

6" CONCRETE PAVEMENT

SAWED DUMMY JOINT

____EJ __ EXPANSION JOINT



KEYPLAN

SCALE 1"=500'

by date

revision

IDLOTHIAN ISD
INSPIRING EXCELLENCE



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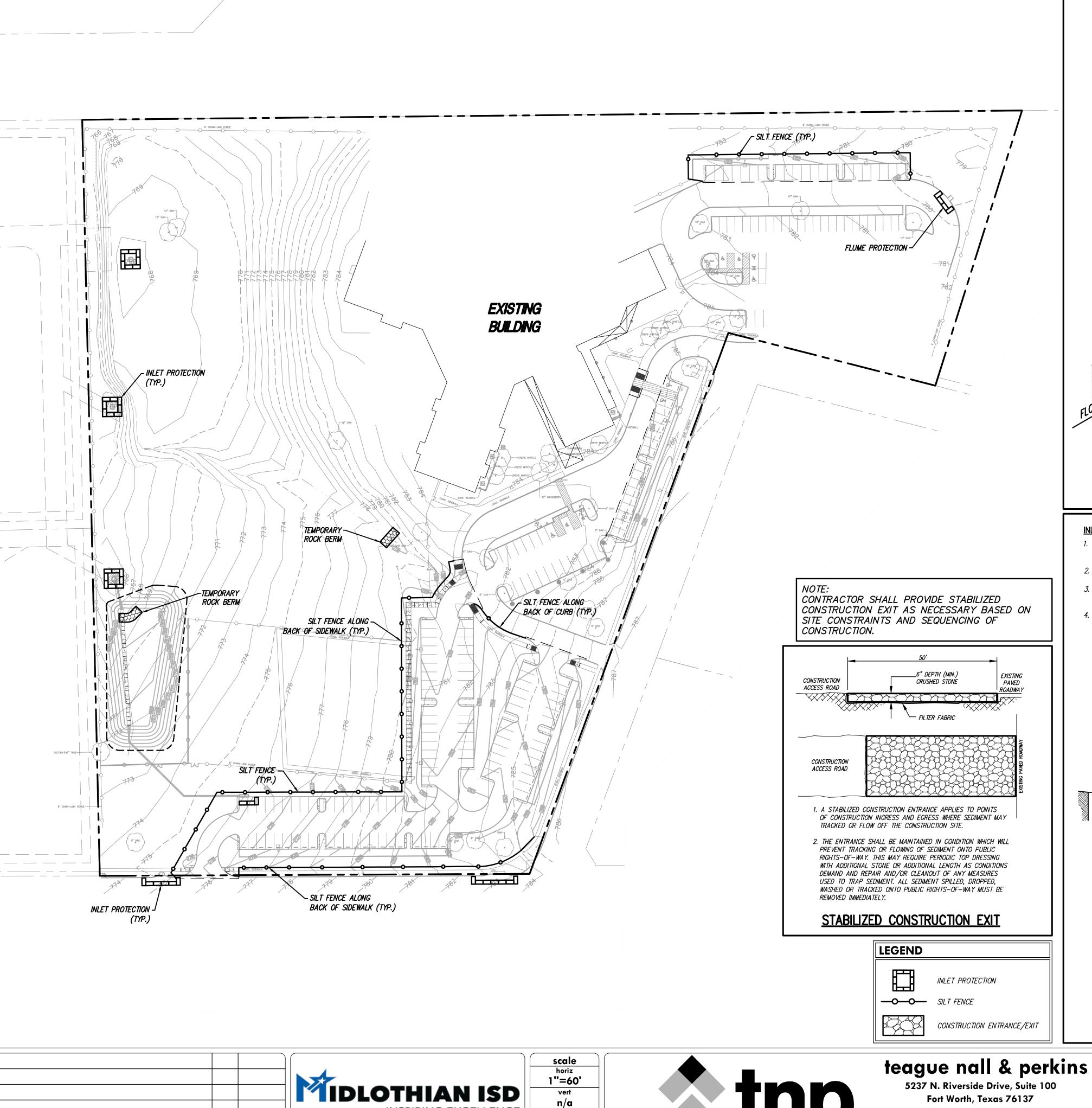
City	of	Mid	lothi	ian,	Texas
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Parking Lot to Serve
VITOVSKY ELEMENTARY

PAVING PLAN - SECTION B

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MLT23062



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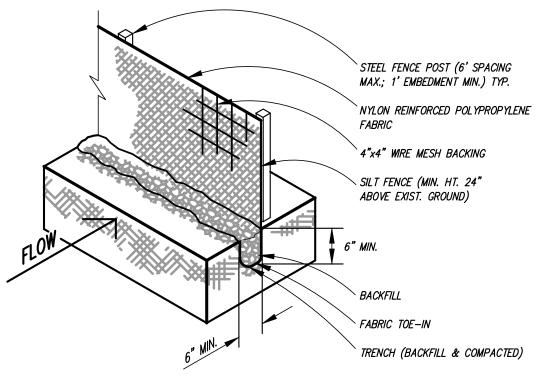
APRIL 2023

SILT FENCE NOTES

- 1. SILT FENCE MAY BE USED WHERE THE GROUND SLOPES ACROSS A DITCH
- 2. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. THE POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
- 3. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF THE FLOW. 4. THE TRENCH MUST BE A MINIMUM OF 6" DEEP AND 6" WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND
- THE SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST. ALTERNATIVELY, SILT FENCE SHALL BE FASTENED TO WOVEN WIRE WHICH IS FASTENED TO THE STEEL POST. THE ENDS OF FABRIC SHALL OVERLAP THREE FEET.

BACKFILLED WITH COMPACTED MATERIAL.

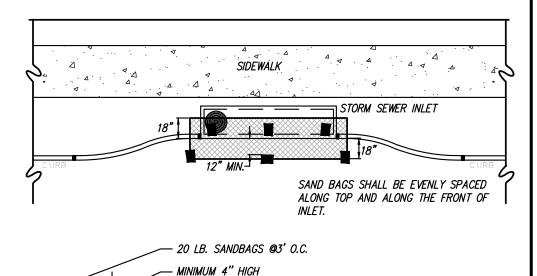
- 6. INSPECTION SHALL BE MADE WEEKLY AND AFTER EACH RAINFALL REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- 7. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO THAT NATURAL DRAINAGE IS NOT BLOCKED OR IMPEDED.
- ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE EIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT A SITE APPROVED BY THE OWNER AND IN SUCH A MANNER AS TO PREVENT ADDITIONAL SILTATION.
- 9. CONTRACTOR TO MAINTAIN SILT FENCING AND ALL OTHER EROSION CON-TROL MEASURES AT ALL TIMES DURING THE DURATION OF THE PROJECT.
- THE SILT FENCE LOCATION SHOWN IS APPROXIMATE. CONTRACTOR SHALL INSTALL SILT FENCE AS NECESSARY TO PRESERVE AND PROTECT EXISTING TREES, FENCES, AND VEGETATION ALONG PROPERTY LINES.
- 11. CONTRACTOR SHALL STAKE THE PROPERTY LINE BEFORE SETTING SILT FENCE

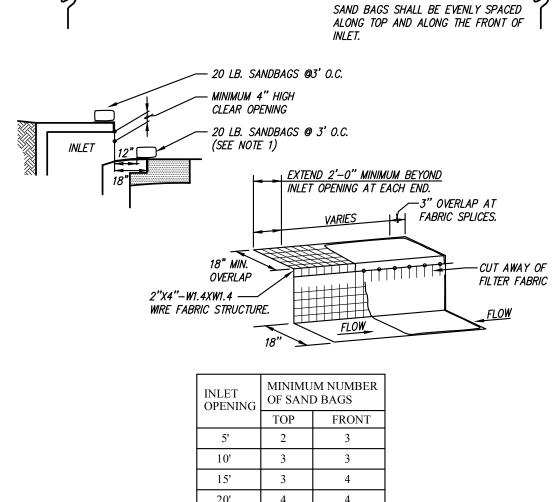


SILT FENCE

INLET PROTECTION NOTES

- 1. A SECTION OF FILTER FABRIC SHALL BE REMOVED AS SHOWN ON THIS DETAIL TO PROVIDE A 4" MINIMUM CLEAR OPENING. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR HOG RINGS AT THIS LOCATION.
- 2. INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2".
- CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY REMOVE THE INLET PROTECTIONS IF
- THE STORM—WATER BEGINS TO OVERTOP THE CURB. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF





CURB INLET PROTECTION DETAIL

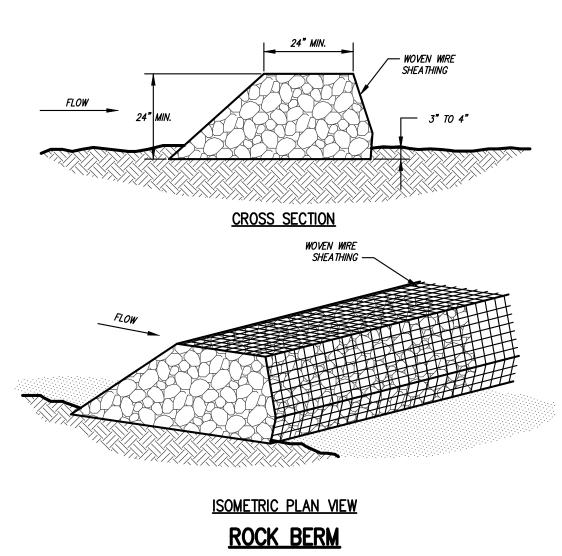
EROSION CONTROL NOTES (TNP)

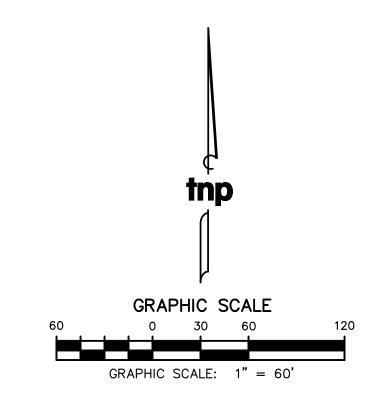
- STABILIZED CONSTRUCTION EXITS SHALL BE USED BY ALL PROJECT VEHICLES LEAVING THE CONSTRUCTION AREA. WHEEL WASHING EQUIPMENT SHALL BE USED TO REMOVE EARTHEN MATERIALS FROM WHEELS AND VEHICLES.
- CONTRACTOR SHALL ENSURE THAT NO STORMWATER RUNOFF ENTERS DRAINAGE SYSTEMS OR EXITS THE CONSTRUCTION AREA WITHOUT PASSING THROUGH ROCK BERMS/EROSION CONTROL DEVICES.
- CONTRACTOR SHALL PROVIDE STREET CLEANING ON ADJACENT STREETS AS NECESSARY TO REMOVE EARTHEN MATERIALS TRANSPORTED FROM THE CONSTRUCTION AREA.
- 4. NO OIL OR HAZARDOUS MATERIALS SHALL BE STORED IN THE CONSTRUCTION AREA.
- 5. THESE PLANS SHALL BE USED IN CONJUNCTION WITH THE ACCOMPANYING DOCUMENT ENTITLED, "POLLUTION PREVENTION PLAN".
- 6. ALL EROSION CONTROL DEVICES ARE TO BE REMOVED BY THE CONTRACTOR AFTER THE PROJECT IS COMPLETE AND SUBSTANTIAL STABILIZATION IS ACHIEVED.

ALL INLETS SHALL HAVE TEMPORARY INLET PROTECTION UNTIL ESTABLISHMENT PER LOCAL, STATE AND FEDERAL REGULATION.

ROCK BERM NOTES

- USE ONLY OPEN GRADED ROCK 4-8 INCHES IN DIAMETER FOR STREAM FLOW
- 2. THE ROCK BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING A MAXIMUM OPENING OF 1" AND A MINIMUM WIRE SIZE OF 20 GAUGE AND SHALL BE BURIED IN A TRENCH APPROXIMATELY 3 TO 4 INCHES DEEP.
- THE ROCK BERM SHALL BE INSPECTED WEEKLY OR AFTER EACH RAIN EVENT AND SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
- WHEN SILT REACHES A DEPTH EQUAL TO ONE—THIRD OF THE HEIGHT OF THE BERM OR ONE FOOT, WHICH EVER IS LESS, THE SILT SHALL BE REMOVED AND DISPOSED OF
- WHEN THE SITE IS COMPLETELY STABILIZED, THE BERM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.
- ROCK BERM SHOULD BE USED AS CHECK DAMS FOR CONCENTRATED FLOW AND ARE NOT INTENDED FOR USE IN PERIMETER PROTECTION.





INSPIRING EXCELLENCE

by

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City of Midlothian, Texas

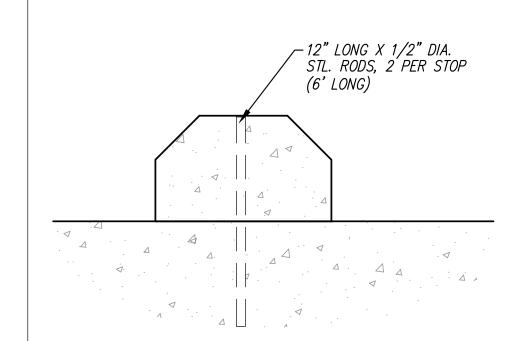
Parking Lot to Serve

VITOVSKY ELEMENTARY EROSION CONTROL PLAN

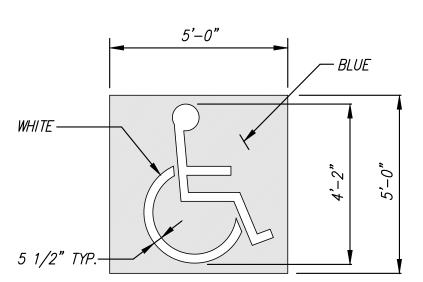
sheet C1.21

tnp project

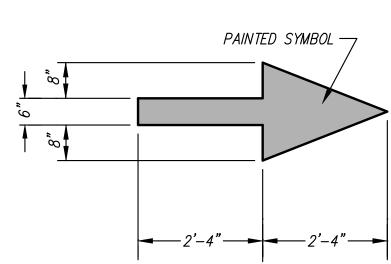
MLT23062



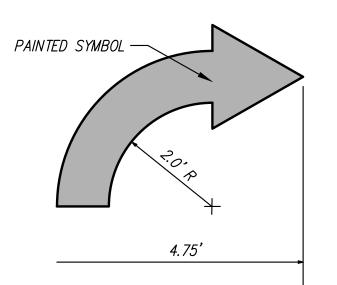
WHEEL STOP DETAIL



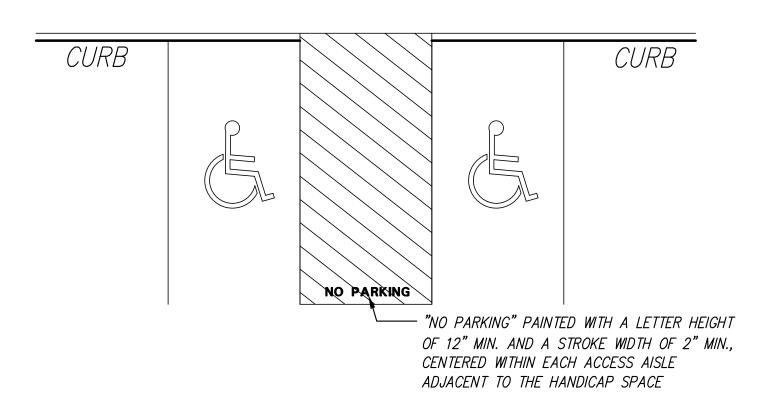
PAINTED HANDICAP PARKING LOGO N.T.S.

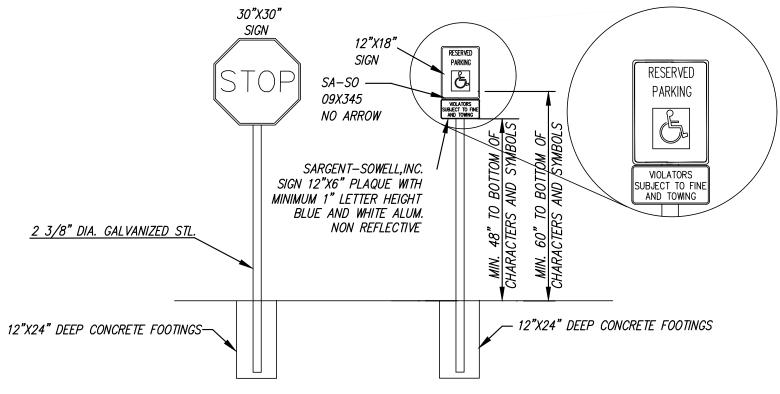


ARROW DETAIL



TRAFFIC FLOW ARROW N.T.S.





N.T.S.

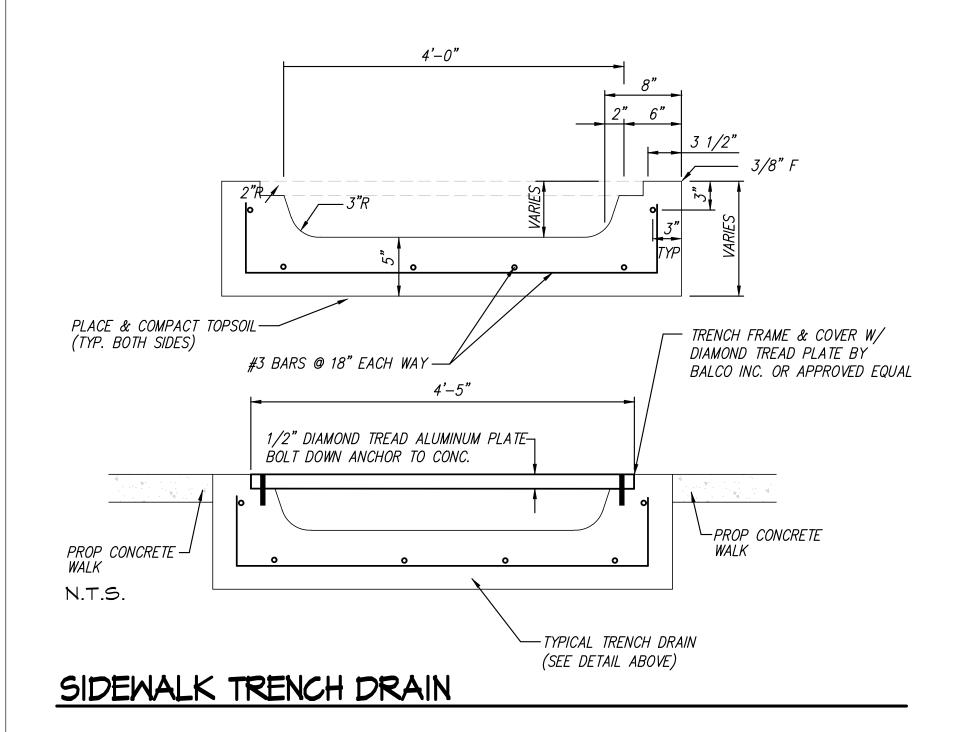
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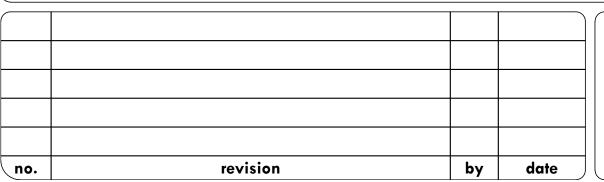
APRIL 2023

HANDICAP LOADING ZONE STRIPING DETAIL

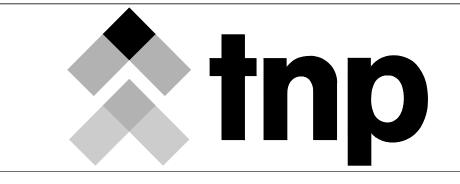
N.T.S.

TRAFFIC SIGN DETAILS



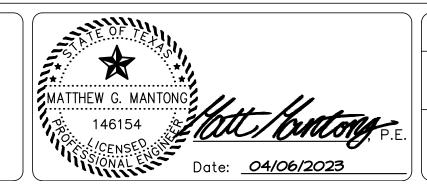






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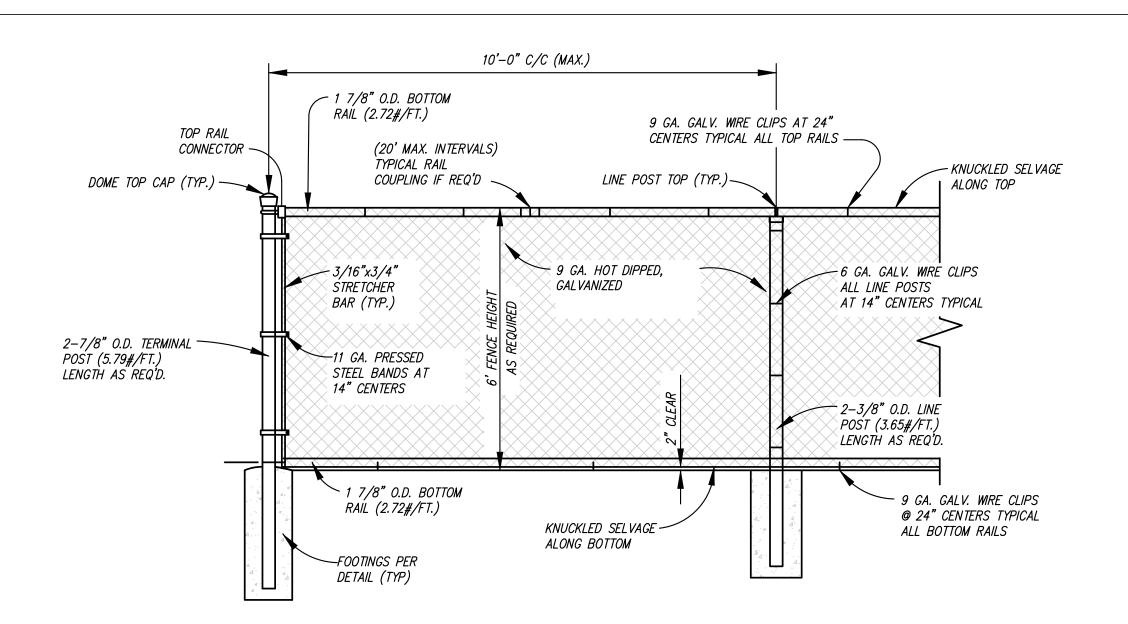
City of	Midlothian	, Texas
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Parking Lot to Serve

VITOVSKY ELEMENTARY SITE DETAILS (1 OF 2)

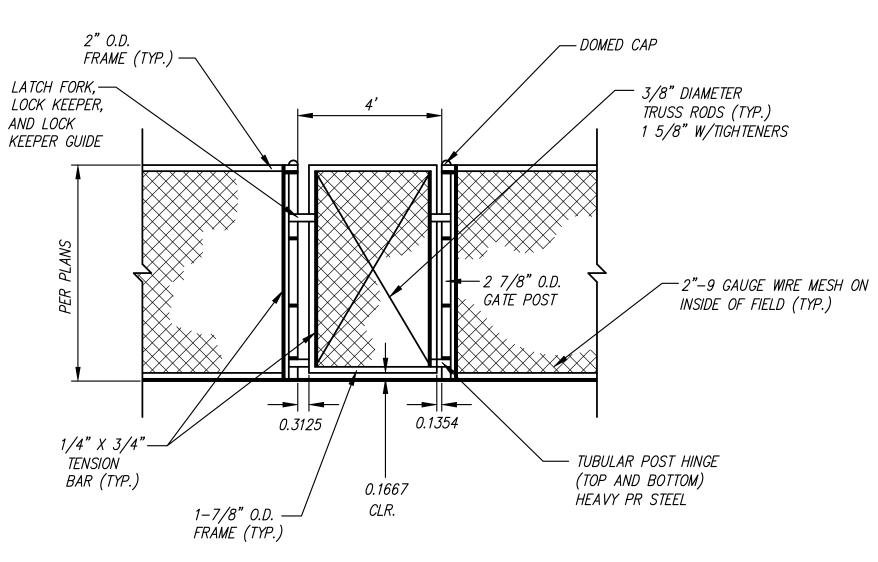
sheet C1.22

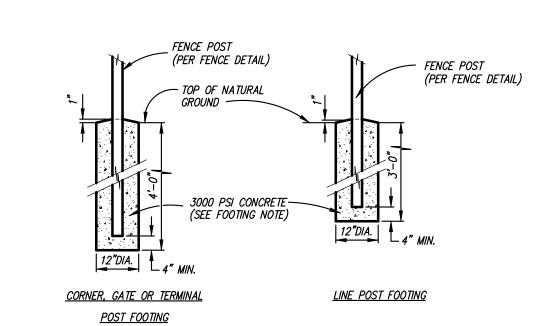
tnp project MLT23062



6' HIGH CHAIN-LINK FENCE

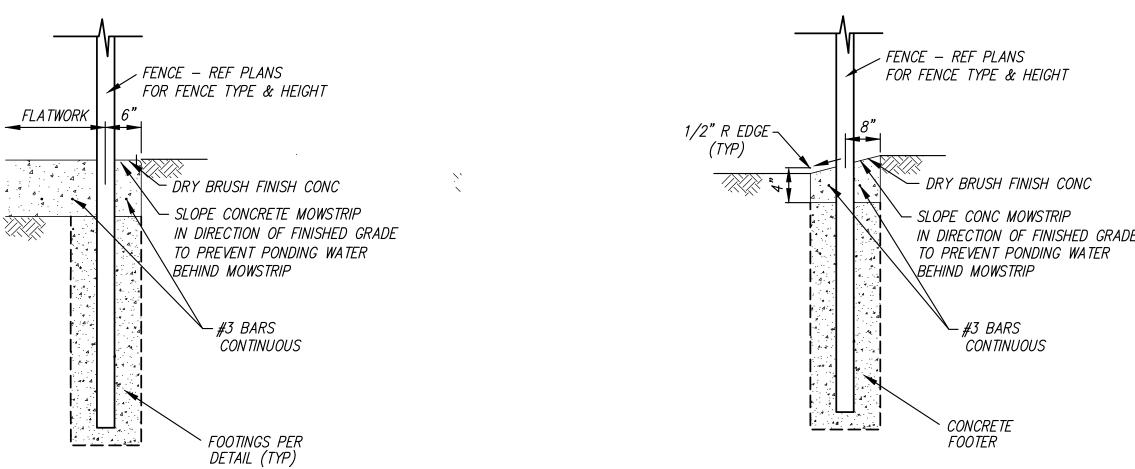
N.T.S.





4' WIDE CHAIN LINK (SINGLE)

N.T.S.



IN DIRECTION OF FINISHED GRADE

FOOTING DETAILS

FENCE ADJACENT TO FLATWORK

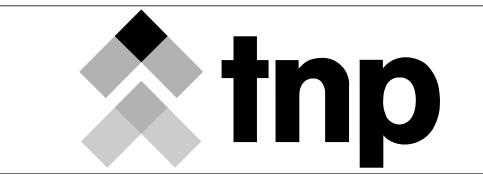
revision

by

date

FENCE W/ MOWSTRIP

scale horiz IDLOTHIAN ISD vert INSPIRING EXCELLENCE date **APRIL 2023**



FOOTING NOTE: THE CORNER, GATE & LINE

POST FOOTINGS SHALL BE CONSIDERED

SUBSIDIARY TO THE RESPECTIVE FENCE CONSTRUCTION. NO SEPARATE PAY.

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CHAIN LINK DOUBLE GATE

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VITOVSKY ELEMENTARY SITE DETAILS (2 OF 2)

-BERMED LANDSCAPE AREA SEE NOTE 2 LCITY OF MIDLOTHIAN CAPITAL IMPROVEMENT PROJÉ I I/2" ACCENT STRIPE WHITE IN COLOR PROJECT NAME DETAIL HELVETICA MEDIUM L4" WIDE PARKING STRIPING 4"X4" POSTS MEDIAN WITH 2' PERIMETER BAND MEDIAN WITH 2' TRAFFIC STRIPING FOR 4"X4" POSTS I. 2' PERIMETER BAND TO BE CONSTRUCTED WITH 4" REINFORCED CONCRETE, NOTES:

1. SIGN SHALL BE MOUNTED ON TWO (2) 4"X4"X8'-0" LONG TIMBER POSTS.

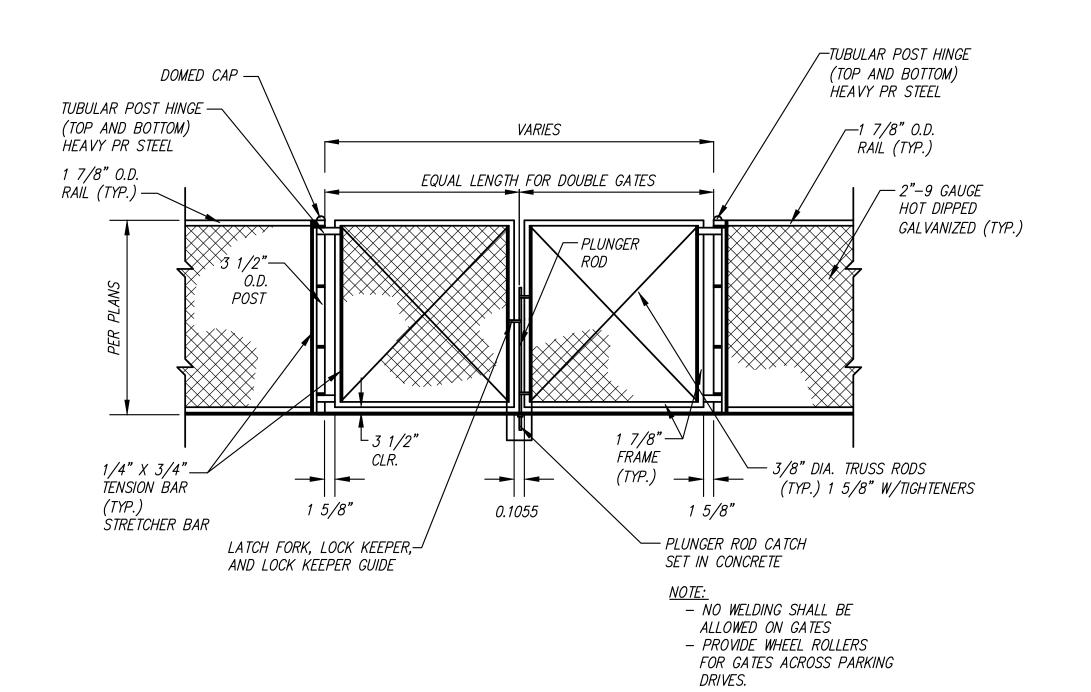
2. TIMBER POSTS ARE TO BE BURIED A MINIMUM OF THREE (3) FEET IN

THE GROUND WITH CONCRETE ENCASEMENT FOR SUPPORT ANCHORAGE
OR ATTACHED TO A MOVEABLE SKID BASE. OR DECOMPOSED GRANITE ON COMPACTED BASE WITH 20 mm WEED BARRIER. 2. MEDIAN LANDSCAPE AREAS SHALL MAINTAIN FULL COVERAGE WITH LIVING LANDSCAPE MATERIAL. BERMS SHALL BE CONSTRUCTED TO PROVIDE AN ELEVATION CHANGE OF ½"-2" FOR EVERY I' OF LANDSCAPE AREA WIDTH. OR ATTACHED TO A MOVEABLE SHID BASE.

3. SIGN SHALL BE MOUNTED PLUMB AND LEVEL TWO (2) FEET CLEAR ABOVE GRADE.

4. A MINIMUM OF TWO (2) SIGNS WILL BE REQUIRED FOR EACH PROJECT UNLESS OTHERWISE STATED ON THE PROJECT DRAWINGS.

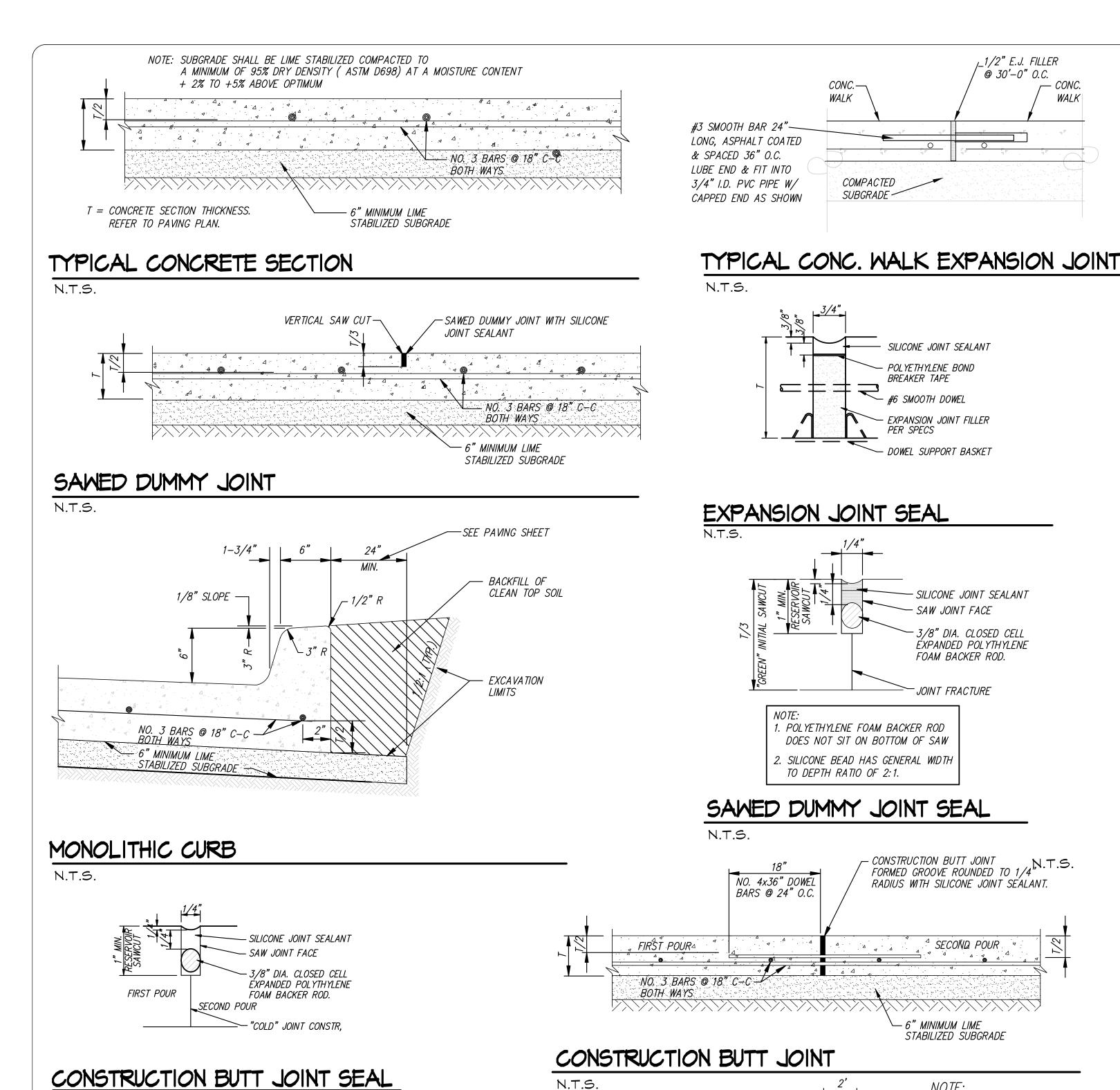
5. ALL COLORS SHALL MATCH CITY ENGINEER'S COLOR DRAWING. TYPICAL PARKING LAYOUTS SIGNAGE AND PAVEMENT MARKING NOTES: CAPITAL IMPROVEMENTS PROJECT SIGN I. ALL REGULATORY AND STREET SIGNS, TRAFFIC CONTROL DEVICES AND PAVEMENT MARKINGS SHALL CONFORM TO THE FUNDAMENTAL USE AND DESIGN REQUIREMENTS SET FORTH IN THE LATEST VERSION ATTACH SIGN TO POST WITH RIVETS, NO BOLTS 10 SQUARE FEET MAXIMUM 2. STREET NAME SIGNS SHALL CONFORM TO CITY REQUIREMENTS RELATING TO THE SIGN BLADE AND LETTERING HEIGHTS AND TYPES, COLOR SCHEME, SIGN AREA CORNER BOLT, FLANGED
WASHER NUT OR RIVETS
AS REQUIRED 3. PAVEMENT MARKINGS SHALL COMPLY WITH THE LATEST VERSION OF TXDOT'S "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES." MARKINGS SHALL BE THERMOPLASTICS (TYPE I MARKING MATERIALS WITH TYPE II MARKING AS A SEALER FOR CONCRETE ROADS AND TYPE III SECTION A-A DROP-ON GLASS BEADS). UNLESS OTHERWISE PERMITTED BY THE CITY. IF TRAFFIC PAINT IS PERMITTED, IT SHALL CONSIST OF TYPE II MARKING CORNER BOLT, FLANGED — WASHER NUT OR RIVETS AS REQUIRED 6" WHITE SOLID -THERMOPLASTIC STRIPE (TYP) MATERIALS WITH TYPE III DROP-ON GLASS BEADS. NOTE: THIS IS SHT. <u>SD-8</u> OF THE STANDARD CONSTRUCTION DETAILS ORDINANCE NO. 2013-51 EFFECTIVE DATE: JANUARY I, 201 © OF CROSSWALK CENTERED ON BARRIER FREE RAMPS-ON EACH END CITY OF MIDLOTHIAN, TEXAS DEPARTMENT OF ENGINEERING, SOIL, NON-REINFORCED CONCRETE / FOOTING, APPROVED FOAM BACKFILL OR CEMENT STABILIZED SOIL UTILITIES. AND PUBLIC WORKS TANDARD CONSTRUCTION DETAIL 2 I/4" ANCHOR STUB PAVING PERFORATED SQUARE METAL TUBING (TYPE U) PROJECT SIGN & PAVEMENT TYPICAL CROSSWALK & STOP BAR DETAIL MARKING DETAILS



City of Midlothian, Texas

MLT23062 sheet **C1.23**

tnp project



NO. 6 x 24" SMOOTH DOWEL @ 24" C-C

DOWEL SUPPORT -

OR BASKET

by

date

6" MINIMUM LIME — STABILIZED SUBGRADE

TRANSVERSE EXPANSION JOINT

revision

16" DOWEL COATING

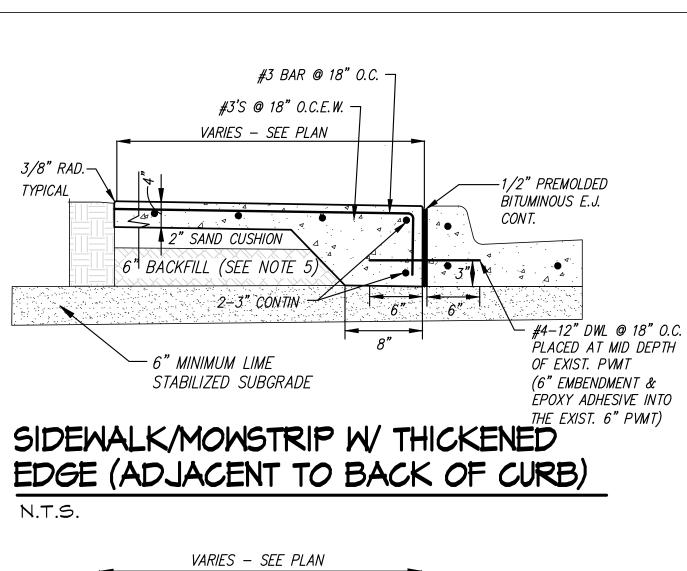
TRANSVERSE EXPANSION JOINT FORMED

GROOVE ROUNDED TO 1/4" RADIUS WITH

NO. 3 BARS @ 18" C-C BOTH WAYS

SILICONE JOINT SEALANT PER SPECS

— SILICONE JOINT SEALANT SAW JOINT FACE 3/8" DIA. CLOSED CELL ÉXPANDED POLYTHYLENE FOAM BACKER ROD. JOINT FRACTURE 1. POLYETHYLENE FOAM BACKER ROD DOES NOT SIT ON BOTTOM OF SAW 2. SILICONE BEAD HAS GENERAL WIDTH TO DEPTH RATIO OF 2:1. SAWED DUMMY JOINT SEAL - CONSTRUCTION BUTT JOINT FORMED GROOVE ROUNDED TO 1/4"N.T.S. RADIUS WITH SILICONE JOINT SEALANT. NO. 4x36" DOWEL BARS @ 24" O.C. -6" MINIMUM LIME STABILIZED SUBGRADE CONSTRUCTION BUTT JOINT N.T.S. EXTEND LIMITS OF LIME SUBGRADE 24" PAST CURB (TYP) CLÉARANCE PARKING LOT/DRIVE



⊢#3'S @ 18" O.C.E.W. −3/8" RAD. TYPICAL *−2" SAND CUSHION* -COMPACTED SUBGRADE

TYPICAL SIDEWALK

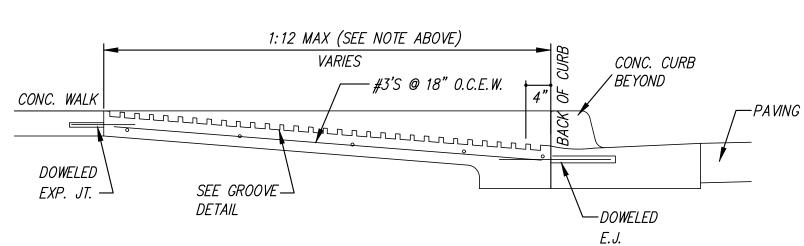
CONTRACTOR SHALL NOTE GRADE ELEVATIONS OF ALL CURB RAMPS ON

N.T.S.

NOTE:

N.T.S.

THE GRADING PLAN.



SIDEWALK RAMP SECTION

EXTEND LIMITS OF LIME SUBGRADE 12" PAST SIDEWALK UP TO 6' MAX. (TYP) PARKING LOT/DRIVE

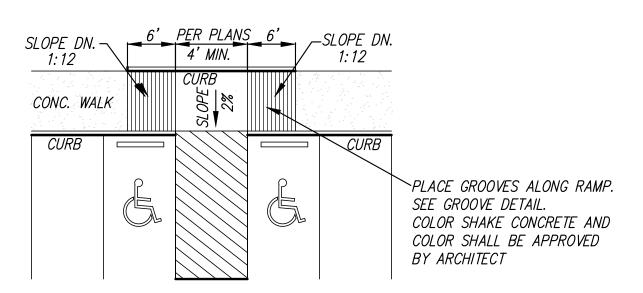
VARIES LIMITS OF LIME STABILIZATION

SIDEWALK & BACK OF CURB

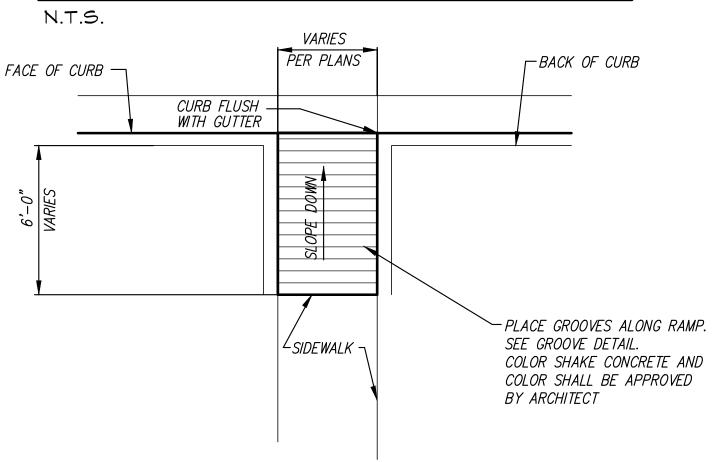
N.T.S.

SIDEWALK GENERAL NOTES:

- 1. ALL CONSTRUCTION MATERIALS, METHODS AND PLACEMENT NOT DETAILED BELOW SHALL MEET OR EXCEED THE STANDARD SPECIFICATIONS OF THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS UNLESS SUPERCEDED BY CITY STANDARD SPECIFICATIONS.
- 2. REINFORCED CONCRETE SIDEWALK SHALL BE A MINIMUM 4 FEET WIDE, A MINIMUM OF 4 INCHES THICK AND SHALL BE CLASS "A" CONTAINING A MINIMUM OF 5 SACKS OF TYPE I CEMENT PER YARD. AGGREGATE SHALL CONSIST OF A MINIMUM OF 50% CRUSHED STONE. ALL CONCRETE PLACED SHALL CONTAIN SUFFICIENT AIR ENTRAINING AGENT TO YIELD 5% ± 1% AIR
- 3. CHAMFER ALL EXPOSED EDGES OF CONCRETE 3/8 INCH.
- 4. ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A-615 GRADE 60. REINFORCING STEEL SHALL BE PLACED WITH A MINIMUM OF 1-1/2" OF COVER FOR #5 BARS OR SMALLER. WHÉRE REINFORCING BARS ARE SPLICED. A 30 DIAMETER LAP SHALL BE USED.
- 5. SUBGRADE SHALL CONSIST OF NATIVE SOIL COMPACTED TO A DENSITY NOT LESS THAN 95% ASTM D698 WITHIN 0 TO +4% OF OPTIMUM.
- 6. SIDEWALKS SHALL BE FINISHED BY LIGHTLY BROOMING SURFACE TRANSVERSELY TO DIRECTION OF MAIN TRAFFIC OR WHERE ADJACENT SIDEWALKS DIFFER FROM FROM THIS STANDARD, NEW SIDEWALKS SHALL CONFORM TO ADJACENT SIDEWALK (E.G. EXPOSED AGGREGATE).
- 7. AN APPROVED CURING COMPOUND SHALL BE APPLIED TO THE SURFACE OF THE PAVEMENT AS SOON AS IT HAS BEEN PLACED AND FINISHED.

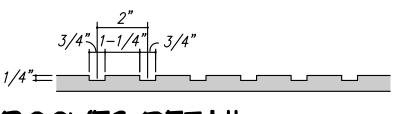






TYPE 'C' (TY 'C')

N.T.S.



GROOVES DETAIL

LIMITS OF LIME ADJACENT TO

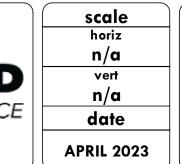
IDLOTHIAN ISD INSPIRING EXCELLENCE

– BAR STOP

OR CAP TO FIT

#6 DOWEL & BE SECURED

└─ NO. 3 BARS @ 18" C-C



N.T.S.



LIMITS OF LIME STABILIZATION

LIMITS OF LIME ADJACENT

TO BACK OF CURB

_1/2" E.J. FILLER @ 30'-0" O.C.

WALK

CONC.-

WALK

COMPACTED SUBGRADE ~

SILICONE JOINT SEALANT

POLYETHYLENE BOND

#6 SMOOTH DOWEL

EXPANSION JOINT FILLER

DOWEL SUPPORT BASKET

BREAKER TAPE

PER SPECS

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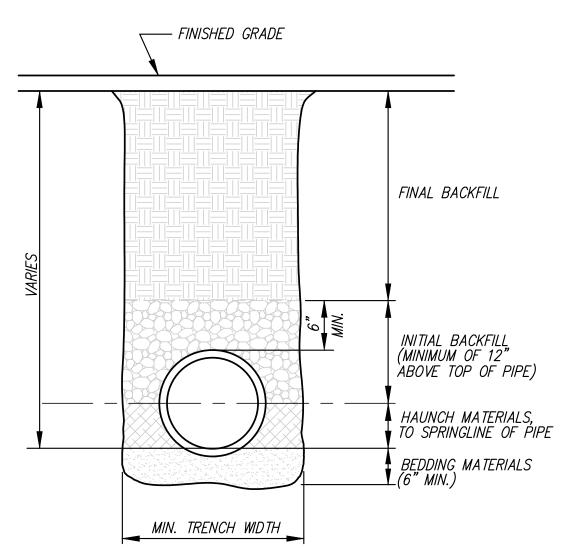
Parking Lot to Serve

VITOVSKY ELEMENTARY PAVING DETAILS

C1.24

MLT23062 sheet

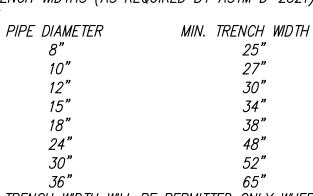
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- 1. BEDDING MATERIALS SHALL BE CLASS IB (1/2" 3/4" CRUSHED STONE) MATERIALS AS DEFINED IN TABLE 1, ASTM D-2321. INSTALLATION OF THESE MATERIALS SHALL BE AS PER TABLE 2. 2. HAUNCH MATERIALS SHALL BE CLASS IB (1/2" - 3/4" CRUSHED
- D-2321, TABLE 2. 3. INITIAL BACKFILL MATERIALS SHALL BE CLASS IB (1/2" - 3/4" CRUSHED STONE) MATERIALS AS REQUIRED ABOVE, RESTRICTED

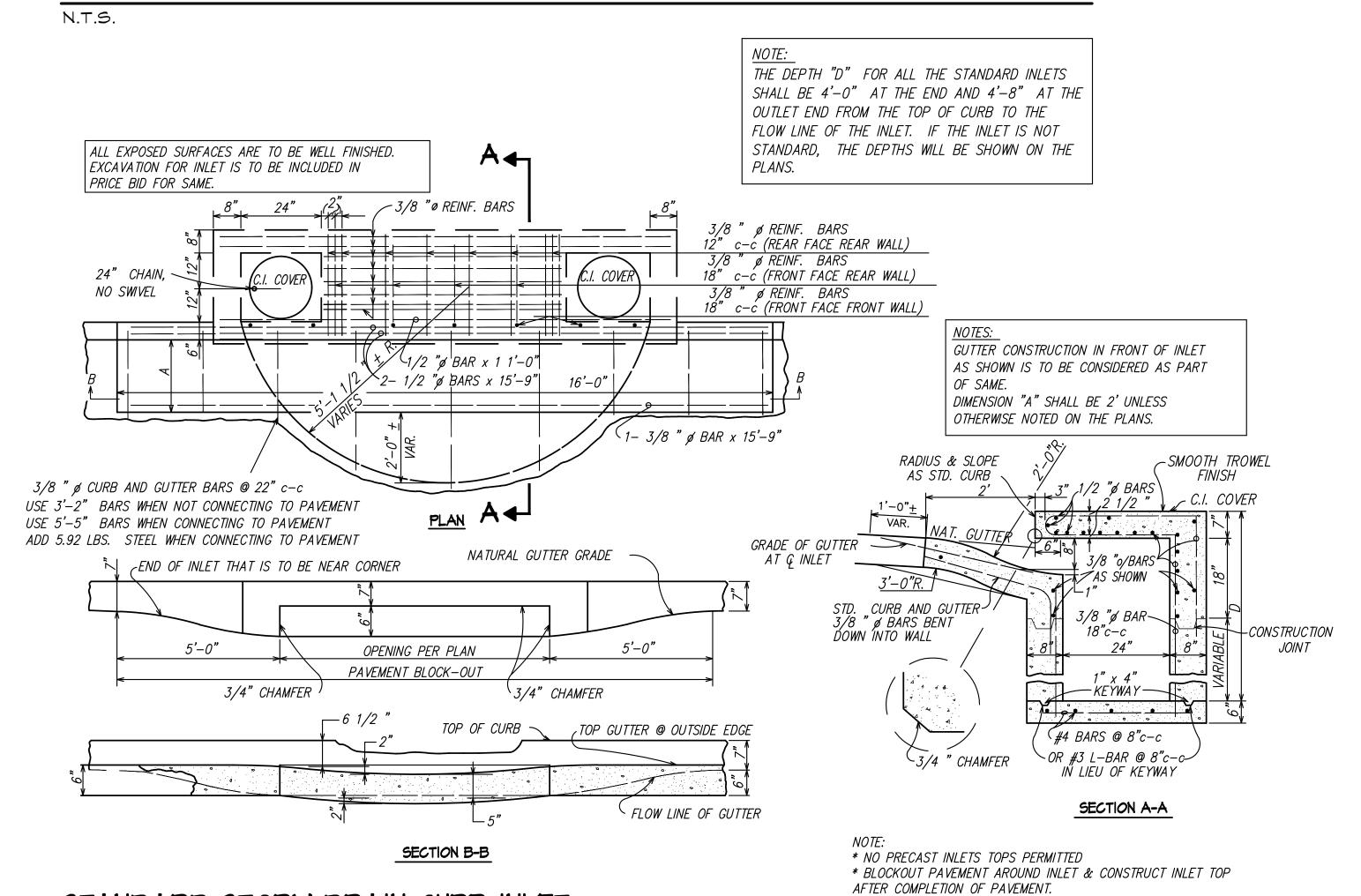
STONE) MATERIALS AS REQUIRED ABOVE, RESTRICTED AS PER

AS PER D-2321, TABLE 2. 4. MIMIMUM TRENCH WIDTHS (AS REQUIRED BY ASTM D-2321) ARE AS FOLLOWS



- * A LESSER TRENCH WIDTH WILL BE PERMITTED ONLY WHERE IT IS DETERMINED THE CONTRACTOR CAN UTILIZE EQUIPMENT CAPABLE OF MEETING THE REQUIRED INSTALLED DENSITIES. WHERE THE TRENCH BOTTOM IS UNSTABLE, CONTRACTOR SHALL EXCAVATE TO A DEPTH AS REQUIRED BY THE ENGINEER AND REPLACE WITH A FOUNDATION OF CLASS I OR II MATERIALS; AS AN ALTERNATIVE. TRENCH BOTTOM MAY BE STABILIZED
- USING A GEOFABRIC. 6. FINAL BACKFILL SHALL BE NATIVE TRENCH MATERIAL (NO ROCKS OVER 3" IN DIA.) PLACE IN 12" MAX. LIFTS TO THE FINAL GRADE WITH EACH LIFT. COMPACT TO A MIN. 95% OF STANDARD PROCTOR DENSITY AT A MOISTURE CONTENT BETWEEN -1% BELOW TO 3% ABOVE $(-1 \ TO +3)$ OPTIMUM MOISTURE CONTENT.

STORM DRAIN PIPE (PE OR PVC) EMBEDMENT & TRENCH BACKFILL DETAILS



STANDARD STORM DRAIN CURB INLET

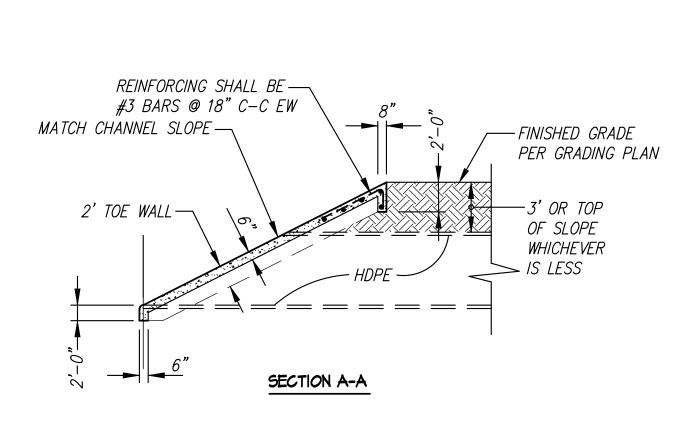
NOTE: NO PRECAST INLET TOPS WILL BE ALLOWED

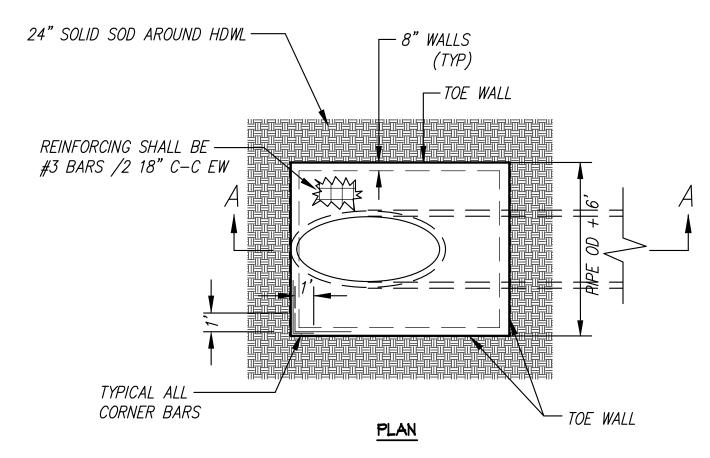
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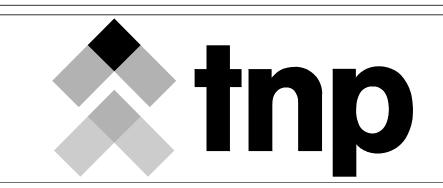


TYPE 'C' HEADWALL DETAIL

by date revision

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City	of Midl	othian,	Texas
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Parking Lot to Serve VITOVSKY ELEMENTARY

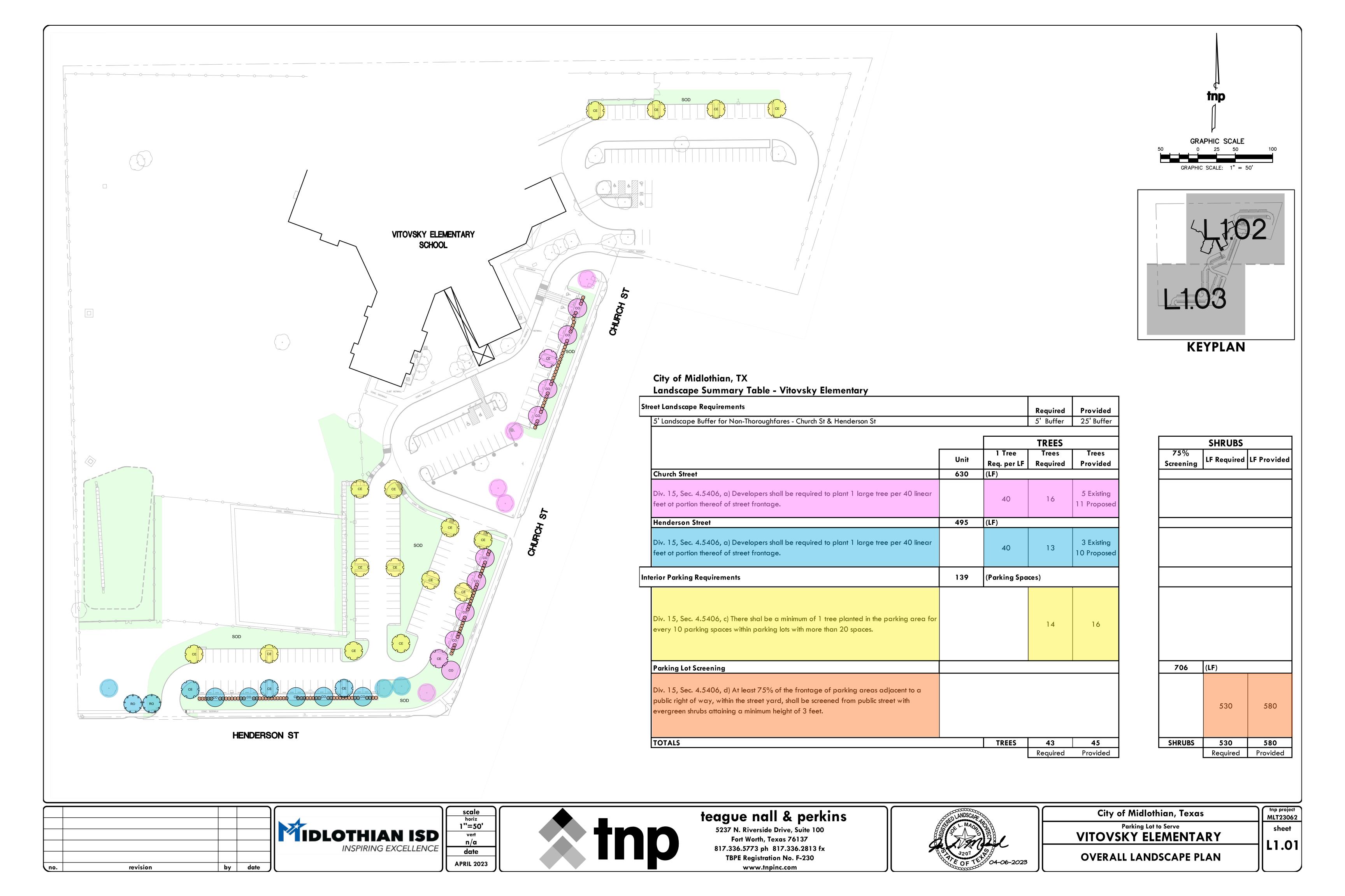
STORM DRAIN DETAILS

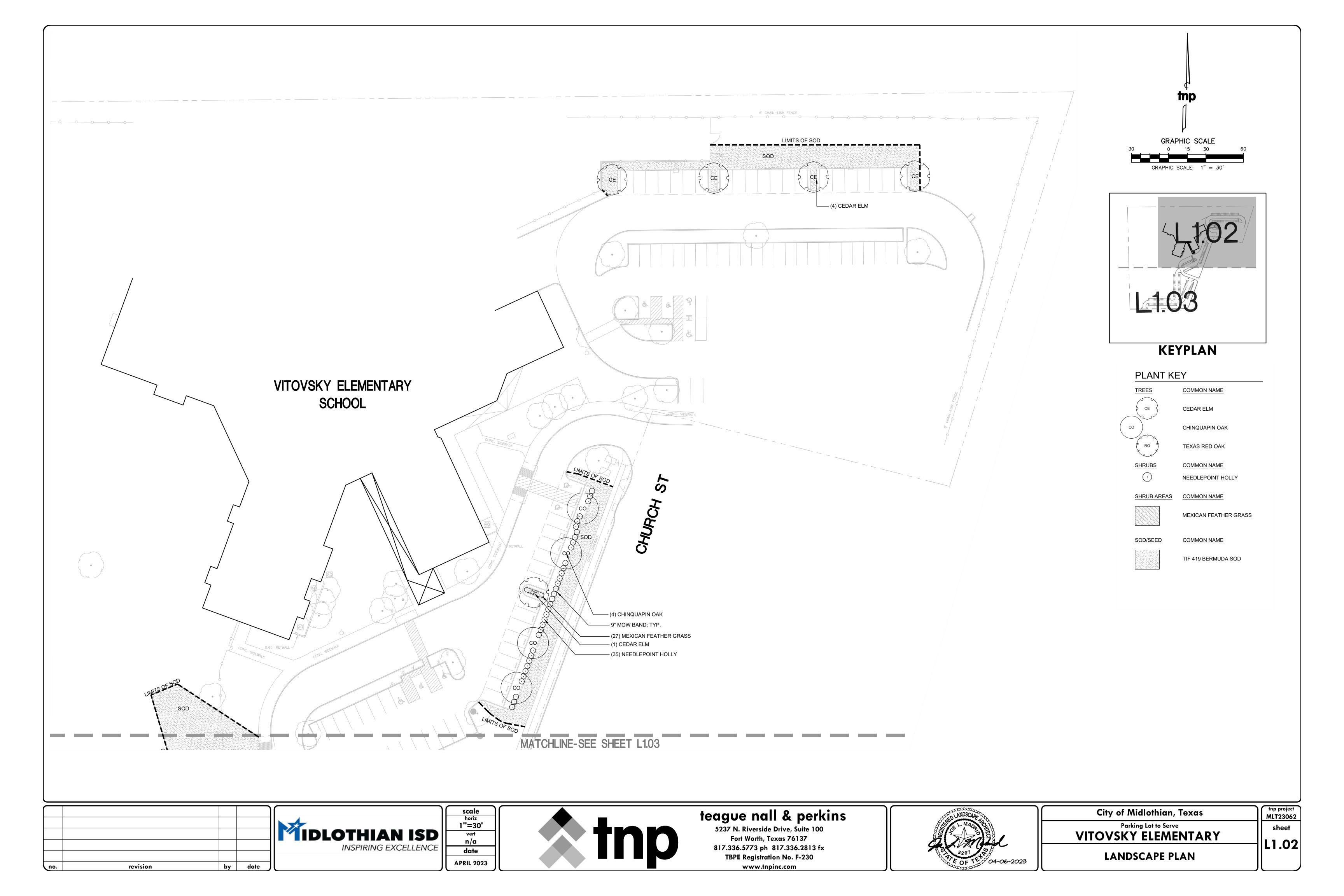
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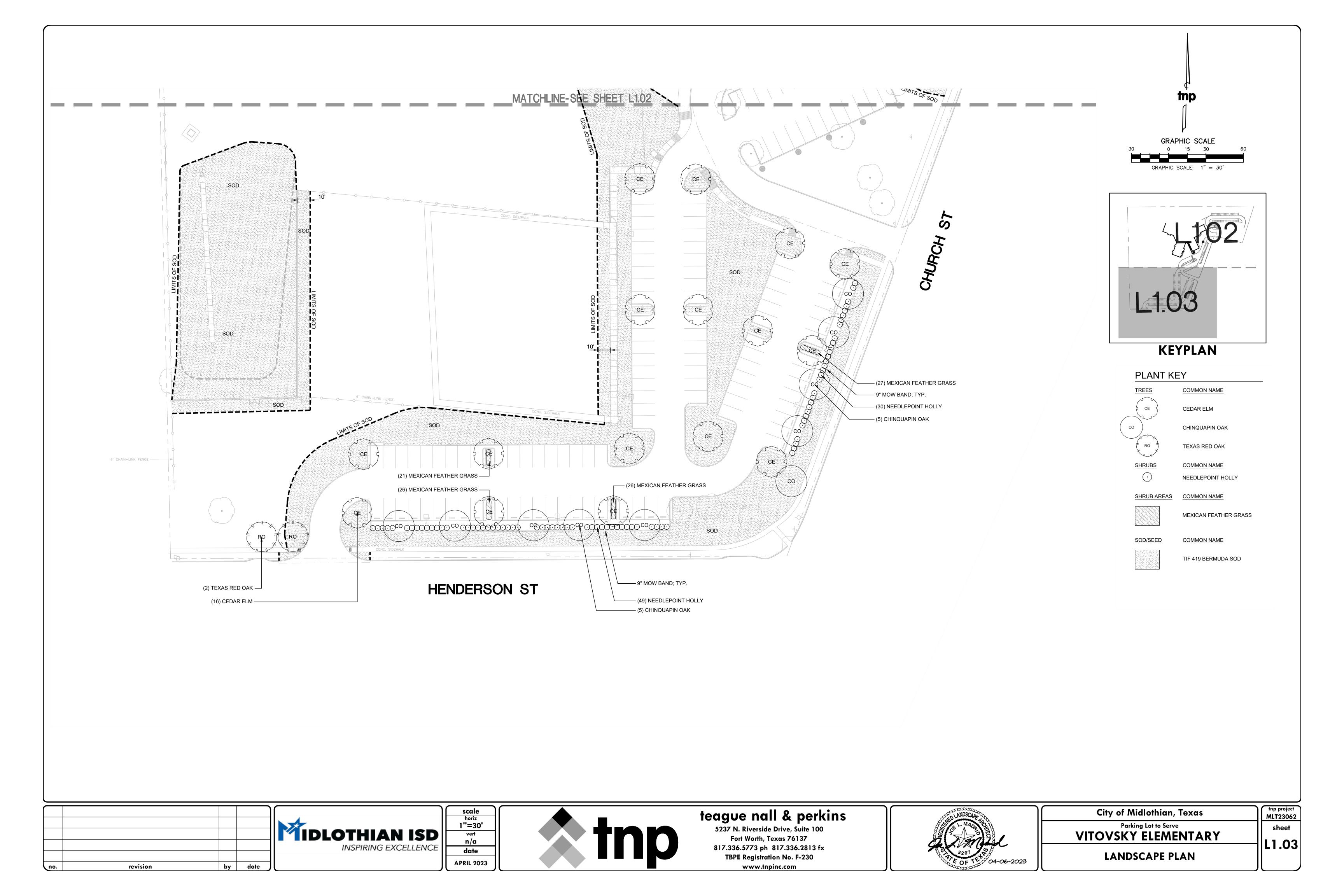
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MLT23062







	PLANT SCHEDULE								
	TREES	QTY	COMMON NAME	BOTANICAL NAME	SIZE	HEIGHT	SPREAD	SPACING	REMARKS
	CE	21	CEDAR ELM	Ulmus crassifolia	4" Cal.	14`-16`	6`-8`	As shown	CONTAINER GROWN, FULL DENSE HEAD, SYMMETRICAL, SINGLE, STRAIGHT TRUNK
co		14	CHINQUAPIN OAK	Quercus muehlenbergii	4" Cal.	12`-14`	5`-6`	As shown	CONTAINER GROWN, FULL DENSE HEAD, SYMMETRICAL, SINGLE, STRAIGHT TRUNK
	RO	2	TEXAS RED OAK	Quercus buckleyi	4" Cal.	12`-14`	6`-8`	As shown	CONTAINER GROWN, FULL DENSE HEAD, SYMMETRICAL, SINGLE, STRAIGHT TRUNK.
	SHRUBS	<u>QTY</u>	COMMON NAME	BOTANICAL NAME	SIZE	<u>HEIGHT</u>	SPREAD	SPACING	REMARKS
	\odot	114	NEEDLEPOINT HOLLY	llex cornuta `Needlepoint`	10 Gal.	36" Min.	20"-24"	48" O.C.	CONTAINER GROWN, MATURE ROOT SYSTEM BUT NOT ROOT BOUND. FULL BROAD TOP.
	SHRUB AREAS	QTY	COMMON NAME	BOTANICAL NAME	SIZE	<u>HEIGHT</u>	SPREAD	SPACING	REMARKS
		127	MEXICAN FEATHER GRASS	Nassella tenuissima	1 Gal.	12"-15"	10"-12"	18" O.C.	CONTAINER GROWN, MATURE ROOT SYSTEM BUT NOT ROOT BOUND. FULL BROAD TOP.
	SOD/SEED	QTY	COMMON NAME	BOTANICAL NAME	SIZE	<u>HEIGHT</u>	SPREAD	SPACING	REMARKS
		65,945 sf	TIF 419 BERMUDA SOD	Cynodon dactylon `TIF 419`	Rolled sod	n/a	n/a	n/a	REF PLANTING NOTES AND SPECIFICATIONS

PLANTING NOTES

SECTION 1 - GENERAL

- 1. These notes are intended as a field reference for the Contractor. The Contractor will thoroughly review these notes, specifications and the drawings prior to start of any work. The Contractor shall visit the site prior to submitting his bid and prior to start of work to become completely familiar with site conditions.
- 2. It is the responsibility of the contractor to advise the Landscape Architect (hereinafter, LA) of any condition found on the site which prohibits installation as shown on these drawings.
- 3. Prior to submitting a bid, the Contractor shall verify any discrepancies between the notes, specifications, or the drawings with the LA for clarification. If there is a discrepancy between the quantity of materials shown on the plans and the quantity of materials shown in the materials legends, the greater quantity will take precedence for bidding purposes. All quantities listed are for information only. It is the contractor's responsibility to provide full coverage of materials in all areas.
- 4. Written dimensions prevail over scaled dimensions. Notify landscape architect of any discrepancies
- 5. The Contractor bears all responsibility for obtaining all licenses and permits required by federal, state, and local agencies to accomplish the work of this project.
- 6. Contractor shall complete soil test in all planting areas to determine soil amendment requirements and submit test results to LA for approval. Contractor shall adjust pH and fertility based upon these results. No addition to or placement of soil is to be done prior to initial soil test report approval. Testing shall be done by LA approved laboratory. No planting shall begin until results and proper adjustment have been made. It is the Contractor's responsibility to ensure proper drainage and fertility of all planting areas.
- Coordinate all work with the project's building contractor or owner.
- 8. Warning! Call toll-free 811 before you dig! The contractor bears all responsibility for verifying all underground utilities, pipes, and structures in the field prior to construction. Any damage to utilities that are to remain shall be repaired immediately at no expense to the owner. The Contractor shall contact the building contractor and all utility authorities to mark location of site utilities. Install flags or stakes and maintain them in place throughout the project. Damage to utilities or other work shall be repaired at the expense of the contractor responsible for the damage. The locations of existing utilities as shown on these plans are approximate. There may be other underground utilities within the project area that are not shown. Landscape Architect and/or Engineer assumes no responsibility for any utilities not shown on plans.
- 9. Due to existing vegetation and other site conditions, the Contractor should anticipate field adjustments by the LA and should understand such adjustments are not a change order.
- 10. The Contractor shall give the LA 48 hours' notice of required inspections upon completion of each of the following phases:
- A. Pre-Construction Conference after award of bid (on-site)
- B. Construction debris/ weed clean-up (before any grading, fill, or irrigation)
- C. Rough Grading (within 2" of finish grade), Utility Marking, and Tree Staking
- D. Fine Grading and Tree Staking (before any tree pits are dug) E. Tree Planting
- F. Staking of Bedlines and/or Edging
- G. Shrub Planting
- H. Substantial Completion I. Final Acceptance
- 11. Contractor shall guarantee all plant material for one (1) full year from date of final acceptance. The cutting off of water or electricity by other trades or persons shall not void the warranty.
- 12. It is the contractor's responsibility to insure the availability of water to the plants at all times until final acceptance. The contractor shall reject and replace all trees with tip-dieback of more than one (1) inch over the entire canopy of the tree and replace all shrubs or plants with any dieback. All rejected plant material shall be replaced with specified plant material within 14 calendar days at the contractor's expense.
- 13. LA assumes no responsibility for damages, liabilities, or cost resulting from changes or alterations made to the plan without the express written consent of LA.
- 14. All materials, locations, and workmanship are subject to approval or refusal by the LA. All materials, locations, and workmanship rejected by the LA shall be remedied at the Contractor's expense.

SECTION 2 - MATERIALS

15. The Contractor shall check all material for specified requirements, shipping damage, pests, and diseases and shall reject all unsatisfactory materials. All plant material is to be carefully handled by the root ball, not the trunk, branches, and/or foliage of the plant. Mishandled material will be rejected. B&B material shall be 'hardened off' after digging for at least 90 days and have at least 10" of rootball for every caliper inch. All material rejected by the LA shall be removed from the site and replaced with acceptable material at the Contractor's expense

- 16. Plants shall be well formed, vigorous, growing specimens with growth typical of variety specified and shall be free from injury, insects, and diseases. All plant material is to be well rooted, not root bound, such that the root ball remains intact throughout the planting process. The Contractor shall reject all cracked root balls. All plant material shall conform to the specifications and sizes shown in the plant list and shall be nursery grown in accordance with the latest edition (ANSI Z60.1) of "American Standard for Nursery Stock." Any plant substitution shall be approved by landscape architect prior to purchase. Trees with co-dominant stems shall be rejected.
- 17. Do not make substitutions. If specified material is not available, submit proof of non-availability to LA.
- 18. All planting areas shall have organic topsoil that is natural, well-drained, friable, fertile, sandy-loam. Sandy-loam is to be pH 6.5-7.5. Heavy clays, limestone, poorly drained bottomland soil, silt, or alluvial soils are not allowed in any planting areas. Topsoil shall be free of harmful insects or nematodes, soil-borne diseases, toxins, select fill, inorganic subsoils, heavy metals, trash, petroleum by-products, rocks over 1/2" in diameter, rubble, roots, and weeds or weed seeds. Contractor shall submit a 2-cup sample in a gallon-size baggie to Landscape Architect before delivery of any soil to the site or placement of any soil in planting areas.
- 19. Sod shall consist of live growing plants secured from sources which have dense, thickly matted root system throughout the soil of the sod for a minimum of one inch. Sod shall be free of weeds or other varieties of grasses.
- 20. Sod shall not be used where the roots are dried because of sun or wind. The landscape architect has the right to reject any or all of sod due to lack of care, improper cutting, or other agronomic problems.

SECTION 3 - EXECUTION

- 21. The Contractor shall thoroughly remove from the construction site all limestone larger than 1/2" in diameter and all heavy clay to these depths: 6" minimum in turf and seed areas, and 18" minimum in planting beds. The LA shall verify that this is complete before the Contractor is authorized to proceed with fill of specified topsoil or grading. Scarify subsoil after removal of rock or heavy clay before adding topsoil so as to break up any surface tension.
- 22. The Contractor shall thoroughly remove from the construction site all the following particles that are larger than 3/4" in diameter: inorganic select fill, heavy clay, limestone, and construction debris, mortar, concrete, paint, chemicals, weeds, plastic, paper, steel, mortar, masonry, construction debris, and other substances that are harmful to plant growth. Remove items to these depths: 6" minimum in turf and seed areas, and 18" minimum in planting beds. The LA shall verify that the above items are removed before the Contractor is authorized to proceed with fill with specified topsoil or grading. DO NOT PLACE ANY FILL ON CONSTRUCTION DEBRIS.
- 23. Mow curbs shall be used at all planting bed edges when they are adjacent to lawn (see detail). Unless otherwise shown on plans, mow curbs shall intersect curbs, sidewalks, and buildings at 90 degrees (square). Mow curbs shall have expansion joints every 50' and at all abutments to other hardscape elements. Construction joints shall be saw cut at 10' on center. Mow curbs shall be straight. All formwork shall be within a ¼" tolerance of drawings. No mow curb shall have a radius smaller than 72" unless specifically called out on drawings.
- 24. Contractor shall fine grade all areas for approval by LA. Contractor shall be responsible for providing 2% positive drainage in all planting or mulching will take place until all construction, clean-up, fine grading, and irrigation is complete in the immediate area. Final finish grading shall be reviewed by the LA before any planting takes place. Contractor shall be responsible for any additional topsoil required to create a smooth condition prior to planting.
- 25.All planting beds shall be amended as per plans details and specs. Submit trip tickets to L.A. for approval of quantity and type of materials.
- 26. All sod and seed areas shall be amended as per plans and specifications.
- 27. Scarify all rootballs (#1 and larger) to prevent plants from remaining pot-bound. This is to be done by hand or with a 3-prong cultivator but never with a shovel or machete.
- 28. Place shrubs and groundcovers so that the top of the rootball is 1/4" to 3/4" above finish grade Trees shall be set 1" above finish grade for each caliper inch of trunk. Example: A 3" tree shall be set 3" above finish grade.
- 29. Water in and compact planting backfill to prevent formation of air pockets.
- 30. Plants shall be set plumb, unless otherwise directed by LA.
- 31. Back row of shrubs shall be planted 36" from face of building wall, groundcovers shall be 12" from building or as required by conditions. Front row of shrubs shall be planted a minimum of 24" behind (12" for ground cover) bed lines at lawns or walks and minimum 36" back from curbs, driveways, and parking areas.
- 32. After planting, remove strapping, wire "ears" and string, cords, burlap, etc. from top of B&B rootballs.
- 33. All planting beds and trees shall be mulched with 3" of mulch (2.5" after settlement).
- 34. All trees are to be stabilized per detail and specs immediately after planting.
- 35. All sod areas shall be thoroughly graded and smoothed with at least 8 passes in different directions using a drag-behind system such as a bunker rake or other device until very smooth and within 1/4" of specified grade (see civil sheets for grading plans).
- 36. Prior to sod installation, a fertilizer shall be applied and tilled into the prepared soil. Application must be done no longer than 24 hours prior to installation of sod. Do not apply fertilizer when a possibility of rain might occur before sod is installed. Reference specifications for specific type of fertilizer to be used.
- 37. Lay sod in parallel rows with tight joints. All sod must be placed perpendicular to slopes and staggered no less than 12" on each row. Slopes greater than 4:1 must be held in place with galvanized sod pins, wood pegs, or other method approved by LA. All sod shall be rolled with a 5-ton mechanical roller in at least two directions within 24 hours of laying. All sod areas shall be barricaded with wood stakes and ribbon for no less than 7 days.
- 38. Plant material shall be pruned as necessary to control size but not to disrupt the natural growth pattern or characteristic form of the plant except as necessary to achieve height clearance for visibility and pedestrian passage or to achieve a continuous opaque hedge if required.
- 39. All plant material shall be fully-maintained in a healthy and growing condition until final acceptance, and must be replaced with plant material of same variety and size if damaged, destroyed, or removed. This includes mowing, pruning, watering, and weeding.
- 40. Landscaped areas shall be kept free of trash, weeds, debris, and dead plant material until final acceptance. Any damage to landscape areas shall be repaired at no cost to owner.

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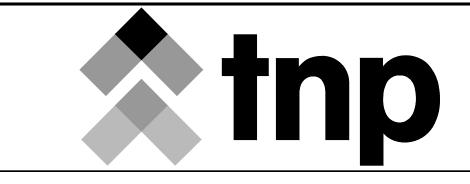


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City of Midlothian, Texas

Parking Lot to Serve

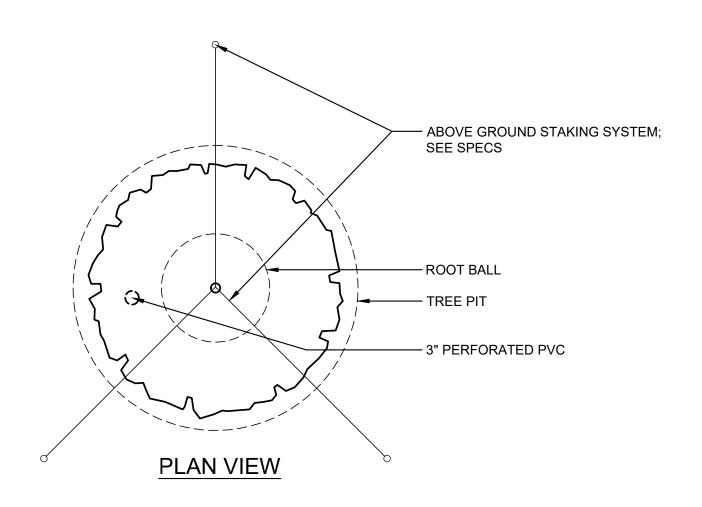
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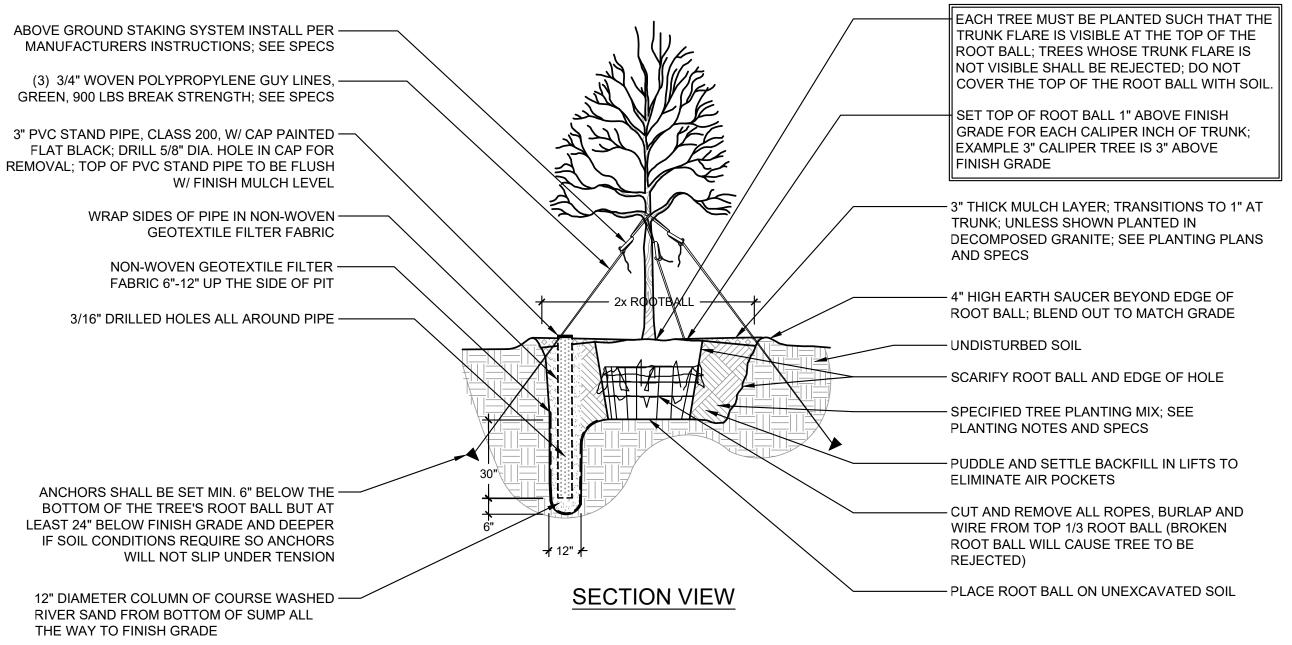
LANDSCAPE SCHEDULE & NOTES

tnp project

MLT23062

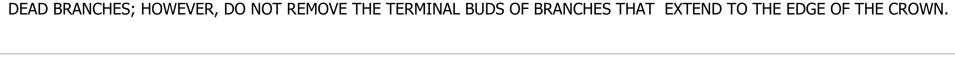
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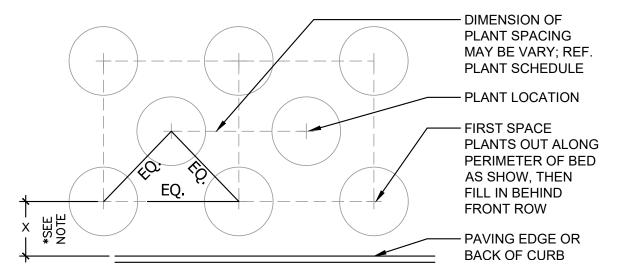




TREE PLANTING

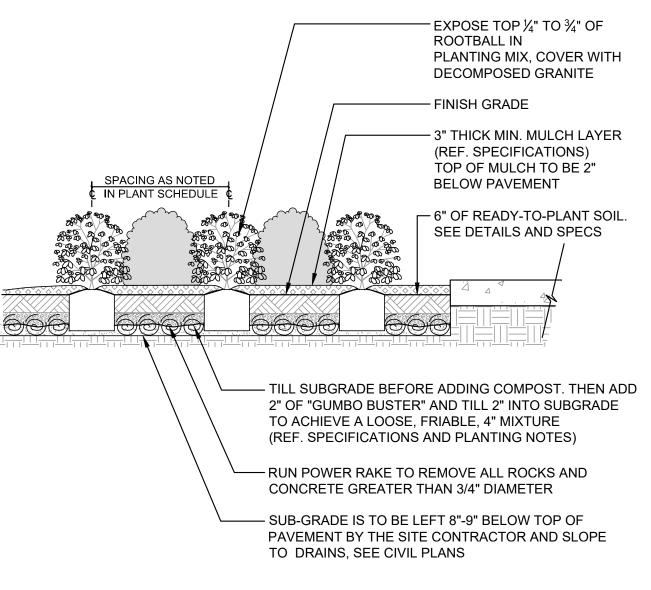
- 1. ROOT BALL SIZE SHALL CONFORM TO THE LATEST EDITION OF AMERICAN STANDARD FOR NURSERY STOCK.
- 2. ROOT BALL WIDTH SHOULD BE DETERMINED BY THE FOLLOWING; 10" OF ROOT BALL FOR EACH CALIPER INCH OF TREE TRUNK.
- 3. ROOT BALL DEPTH IS 2/3 OF DIAMETER.
- 4. DO NOT HEAVILY PRUNE THE TREE AT PLANTING; PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR





- 1. X = 12" MIN. FOR GROUNDCOVER
- 2. X = 24" MIN. FOR SHRUBS
- 3. SPACING DIAGRAM REFERS TO ALL PLANTING UNLESS OTHERWISE NOTED

PLAN VIEW



SECTION VIEW

В

TNP-ST-01

SHRUB AND GROUNDCOVER PLANTING DETAIL

— LIGHT BROOM FINISH, SLOPE TO DRAIN — 1/2" CHAMFER - #3 CROSSBAR @24" OC, TYP (1.5" CLEARANCE FROM TOP) – MULCH, GRAVEL, OR DECOMPOSED GRANITE; REFERENCE PLAN AND SPECS. - PLANTING MEDIA OR 4,000 PSI CONCRETE COMPACTED SUBGRADE FOR DECOMPOSED GRANITE (2) #3 REBAR, CONT. -SUBGRADE 8" DEEP x 12" WIDE, 95% PROCTOR MOW CURBS SHALL HAVE EXPANSION AND CONTROL JOINTS.

- EXPANSION JOINTS SHALL BE LOCATED EVERY 50' O.C. AND TOOLED CONTROL JOINTS SHALL BE LOCATED EVERY 10' O.C.
- 2. PROVIDE POSITIVE DRAINAGE FROM PLANTING BED WITH MAX. 0.5% CROSS SLOPE, TYP.

9" WIDE CONCRETE MOW CURB

TNP-ST-07

TNP-ST-06

- FINISH GRADE FOR TURF

IS 1.5" - 2" BELOW CURB

by date revision



scale

n/a

vert

n/a

date





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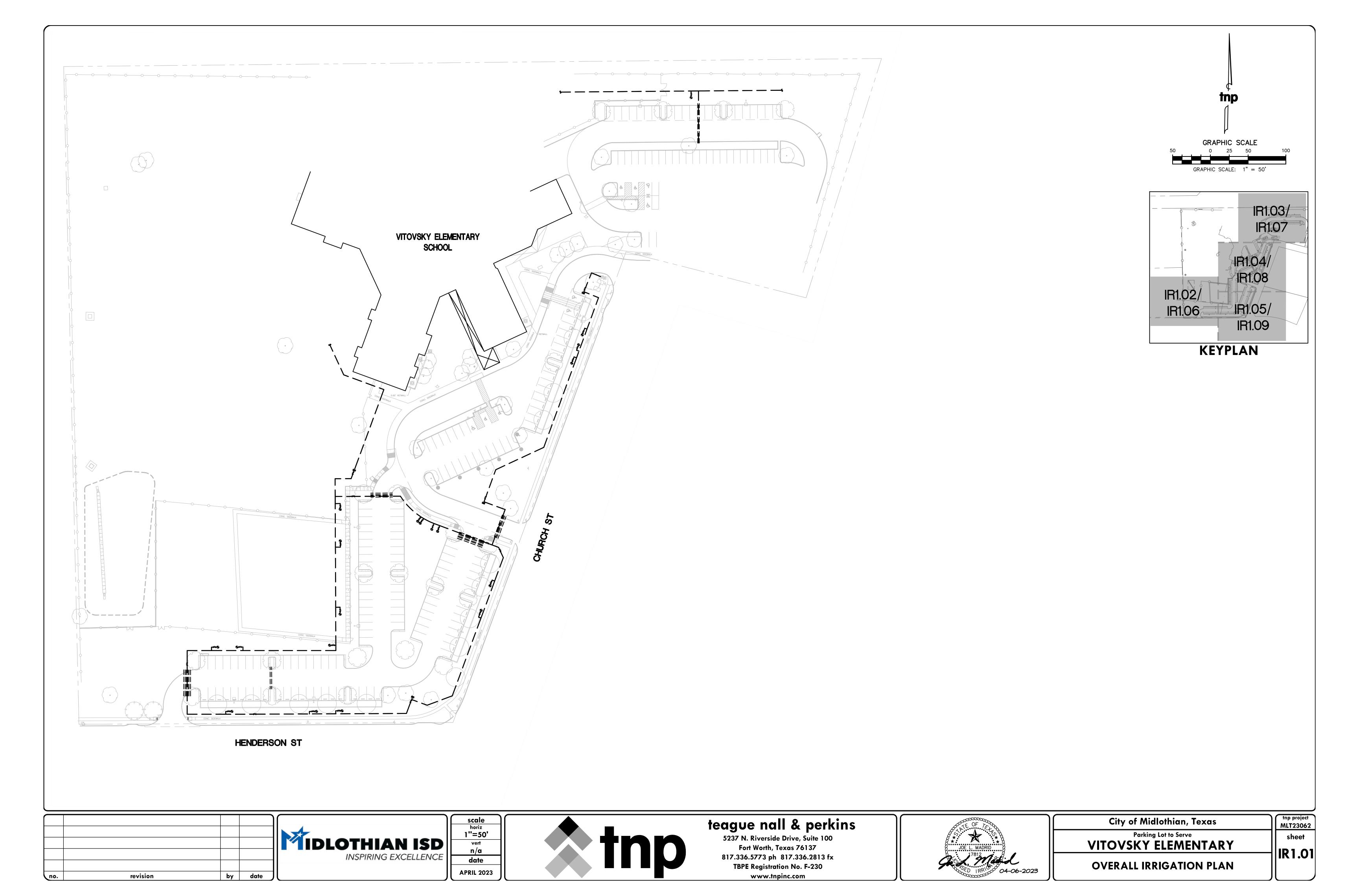
City	of	Midlothian,	Texas
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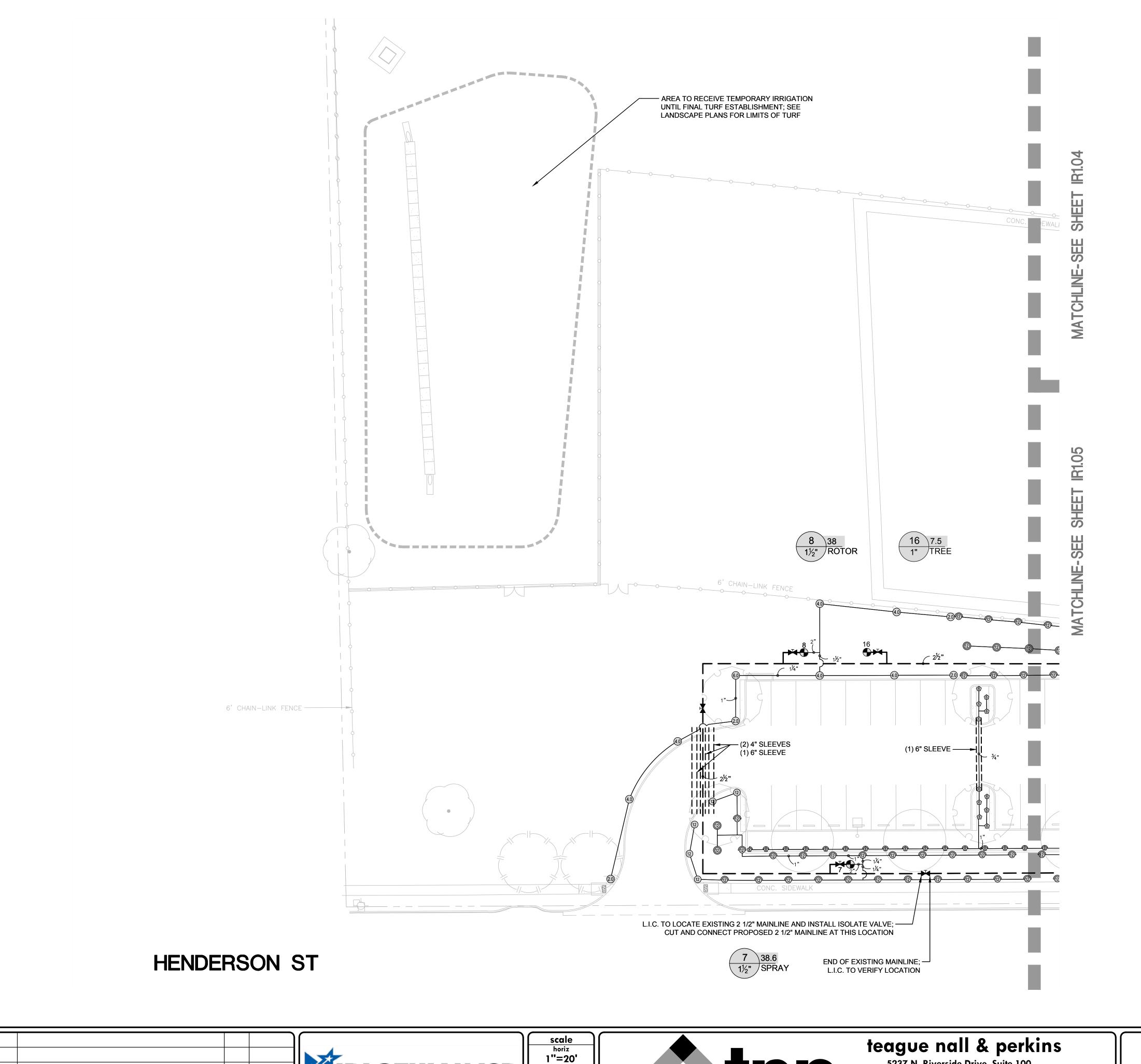
Parking Lot to Serve **VITOVSKY ELEMENTARY**

LANDSCAPE DETAILS

MLT23062 sheet L1.05

tnp project





vert

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date

IRRIGATION KEY

MANUFACTURER/MODEL Hunter PROS-06-PRS30-CV Strip Series Hunter PROS-06-PRS30-CV 8 Series

Hunter PROS-06-PRS30-CV 10 Series

®®®®®® Hunter PROS-06-PRS30-CV 12 Series ® ® ® © © © Hunter PROS-06-PRS30-CV 15 Series

4 6 8 10 12 15 17 Hunter PROS-06-PRS30-CV Adj Series

Hunter PROS-12-PRS30-CV 5` radius Hunter PROS-12-PRS30-CV 8` radius

4 6 8 10 12 15 17 Hunter PROS-12-PRS30-CV Adjustable Arc

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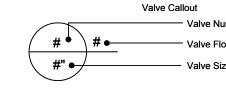
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MANUFACTURER/MODEL Hunter ICV-G Ball Valve

Irrigation Lateral Line: PVC Class 200 SDR 21

— — Irrigation Mainline: PVC Class 200 SDR 21

Pipe Sleeve: PVC Schedule 40



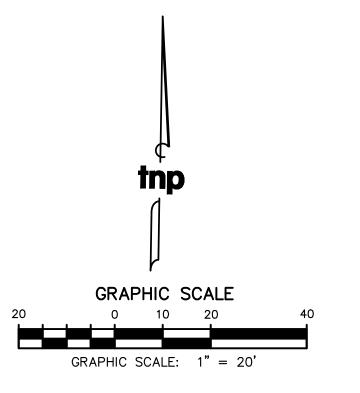
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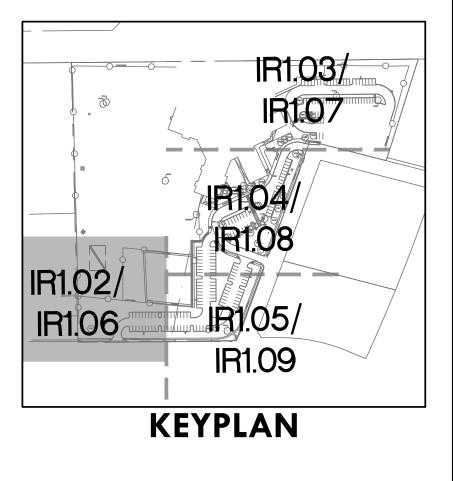
EXISTING VALVES, VALVES BOXES, AND IRRIGATION HEADS THAT ARE WITHIN CONSTRUCTION ZONES TO BE SALVAGED. PARTS TO BE REUSED OR GIVEN TO OWNER FOR INVENTORY

RETROFIT EXISTING IRRIGATION SYSTEM TO NEW SITE CONDITIONS

L.I.C. TO REUSE EXISTING CONTROL WIRES FROM REMOVED OR RELOCATED CONTROL CONTROLLERS; CONTROLLER TO BE UPGRADED IF NOT CAPABLE TO BE USED WITH NEW VALVES; COORDINATE WITH OWNER FOR CONTROLLER SIZE AND

L.I.C. TO VERIFY PROPER OPERATION OF ENTIRE IRRIGATION SYSTEM POST CONSTRUCTION



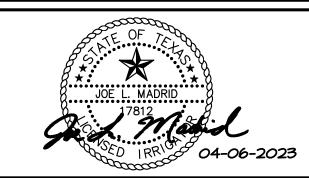


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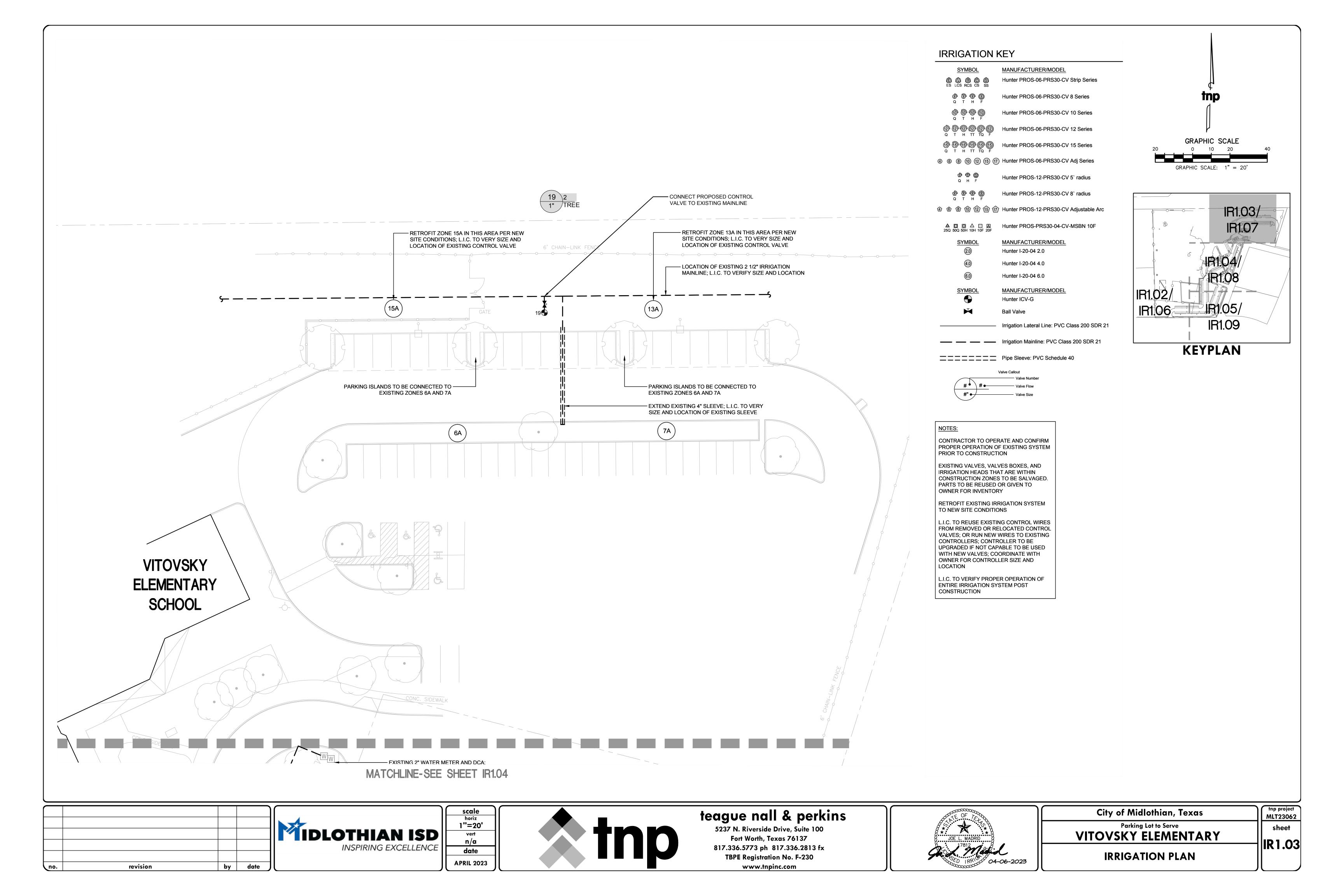
City of Midlothian, Texas

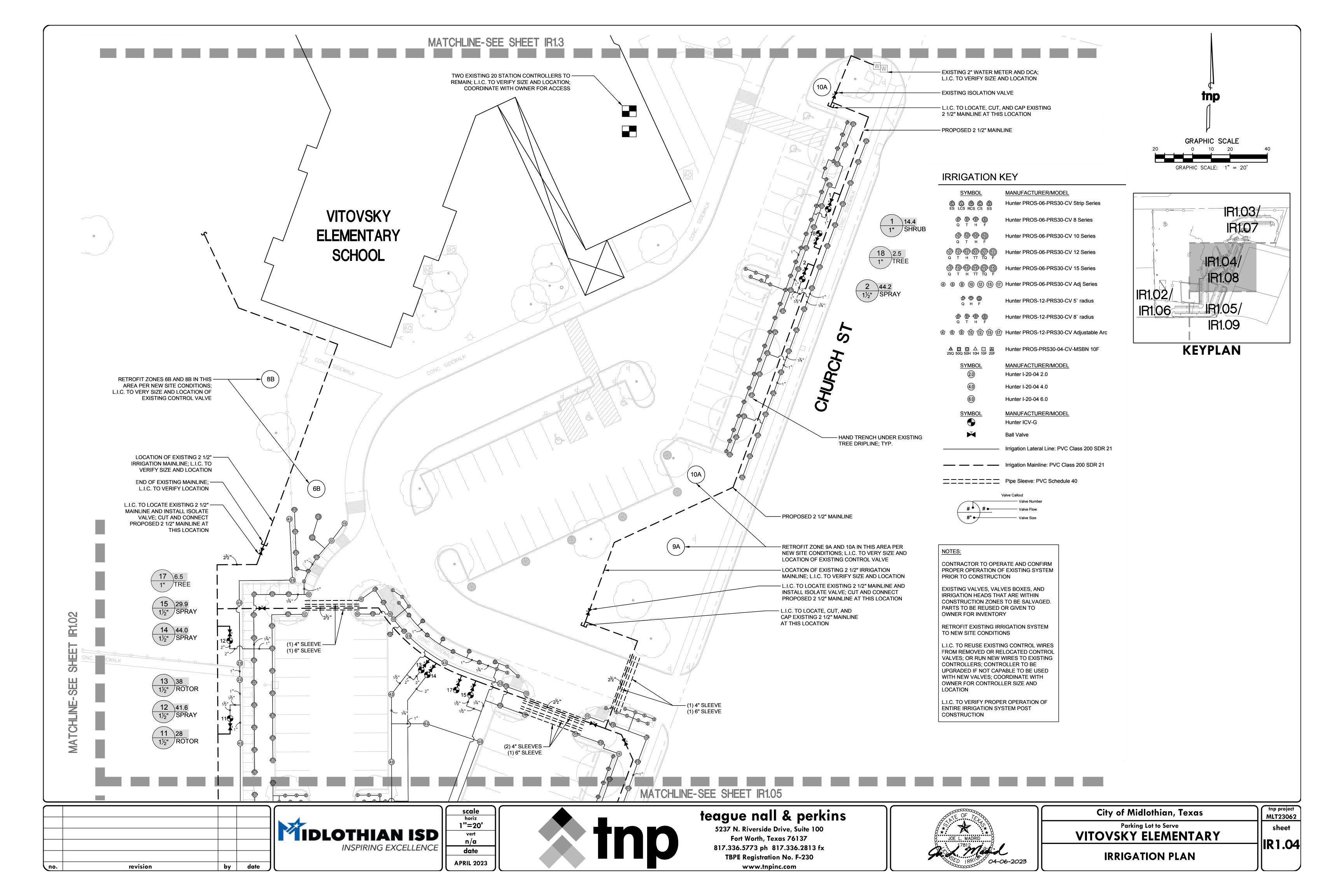
Parking Lot to Serve **VITOVSKY ELEMENTARY**

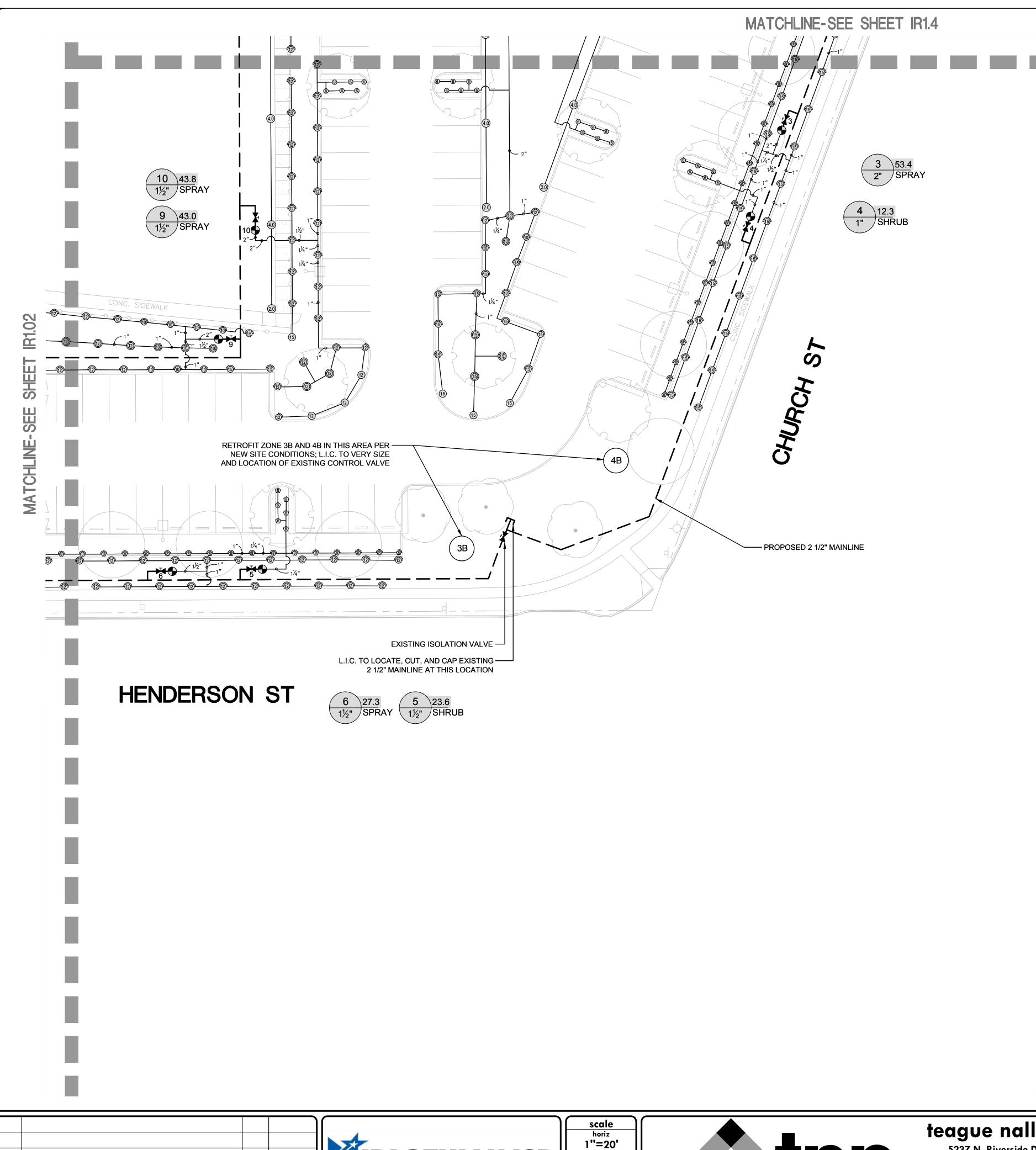
IRRIGATION PLAN

MLT23062 sheet IR1.02

tnp project







IRRIGATION KEY

MANUFACTURER/MODEL ES LCS RCS CS SS Hunter PROS-06-PRS30-CV Strip Series Hunter PROS-06-PRS30-CV 8 Series Hunter PROS-06-PRS30-CV 10 Series Hunter PROS-06-PRS30-CV 12 Series

Hunter PROS-06-PRS30-CV 15 Series

(4) (6) (8) (10) (12) (15) (17) Hunter PROS-06-PRS30-CV Adj Series

Hunter PROS-12-PRS30-CV 5` radius

Hunter PROS-12-PRS30-CV 8' radius

(a) (b) (a) (d) (d) (d) (d) (d) Hunter PROS-12-PRS30-CV Adjustable Arc

Hunter PROS-PRS30-04-CV-MSBN 10F

MANUFACTURER/MODEL Hunter I-20-04 2.0 Hunter I-20-04 4.0

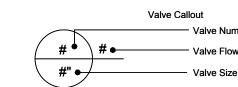
Hunter I-20-04 6.0 MANUFACTURER/MODEL Hunter ICV-G

Ball Valve

Irrigation Lateral Line: PVC Class 200 SDR 21

— Irrigation Mainline: PVC Class 200 SDR 21

Pipe Sleeve: PVC Schedule 40



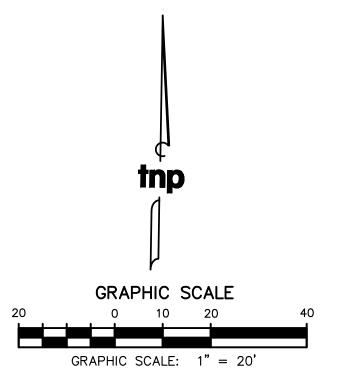
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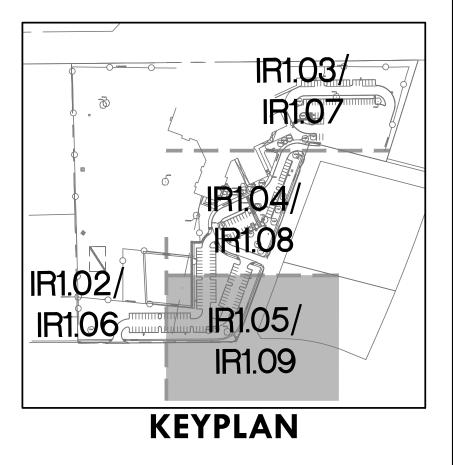
EXISTING VALVES, VALVES BOXES, AND IRRIGATION HEADS THAT ARE WITHIN CONSTRUCTION ZONES TO BE SALVAGED. PARTS TO BE REUSED OR GIVEN TO OWNER FOR INVENTORY

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L.I.C. TO VERIFY PROPER OPERATION OF ENTIRE IRRIGATION SYSTEM POST CONSTRUCTION





City of Midlothian, Texas

Parking Lot to Serve

VITOVSKY ELEMENTARY

tnp project MLT23062 sheet IR1.05

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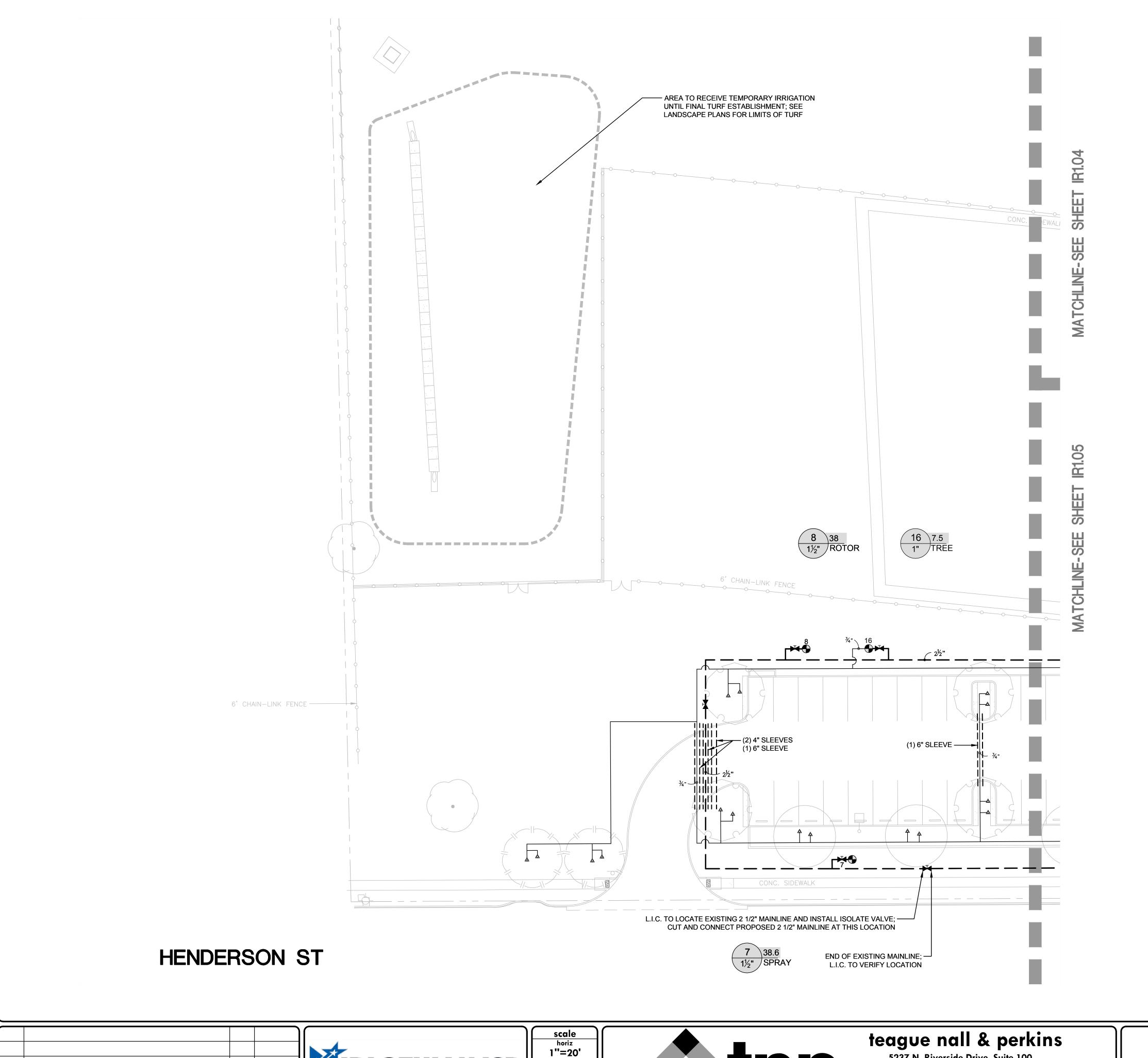
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IRRIGATION KEY

SYMBOL MANUFACTURER/MODEL

MANUFACTURER/MODEL

Hunter PROS-06-PRS30-CV Strip Series

B B B B B B B Hunter PROS-06-PRS30-CV 8 Series

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4 6 8 10 12 15 17 Hunter PROS-06-PRS30-CV Adj Series

Hunter PROS-12-PRS30-CV 5` radius

B B B B B B Hunter PROS-12-PRS30-CV 8` radius

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△ □ □ △ □ △ Hunter PROS-PRS30-04-CV-MSBN 10F

 SYMBOL
 MANUFACTURER/MODEL

 (2.0)
 Hunter I-20-04 2.0

 (4.0)
 Hunter I-20-04 4.0

 (6.0)
 Hunter I-20-04 6.0

SYMBOL MANUFACTURER/MODEL
Hunter ICV-G

Ball Valve

Irrigation Lateral Line: PVC Class 200 SDR 21

--- -- Irrigation Mainline: PVC Class 200 SDR 21

Pipe Sleeve: PVC Schedule 40

Valve Callout

Valve N

Valve F

NOTES

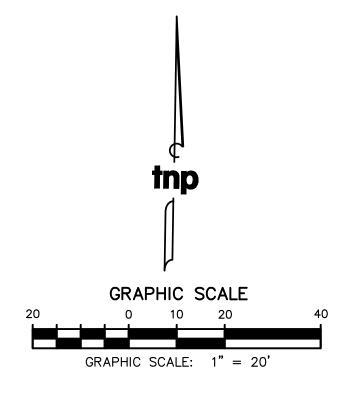
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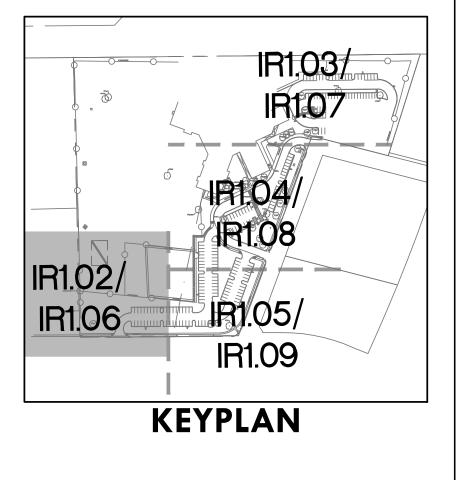
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L.I.C. TO VERIFY PROPER OPERATION OF ENTIRE IRRIGATION SYSTEM POST CONSTRUCTION





City of Midlothian, Texas

Parking Lot to Serve
VITOVSKY ELEMENTARY

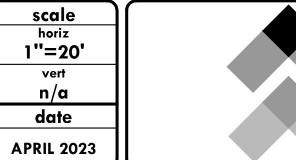
TREE IRRIGATION PLAN

tnp project MLT23062 sheet

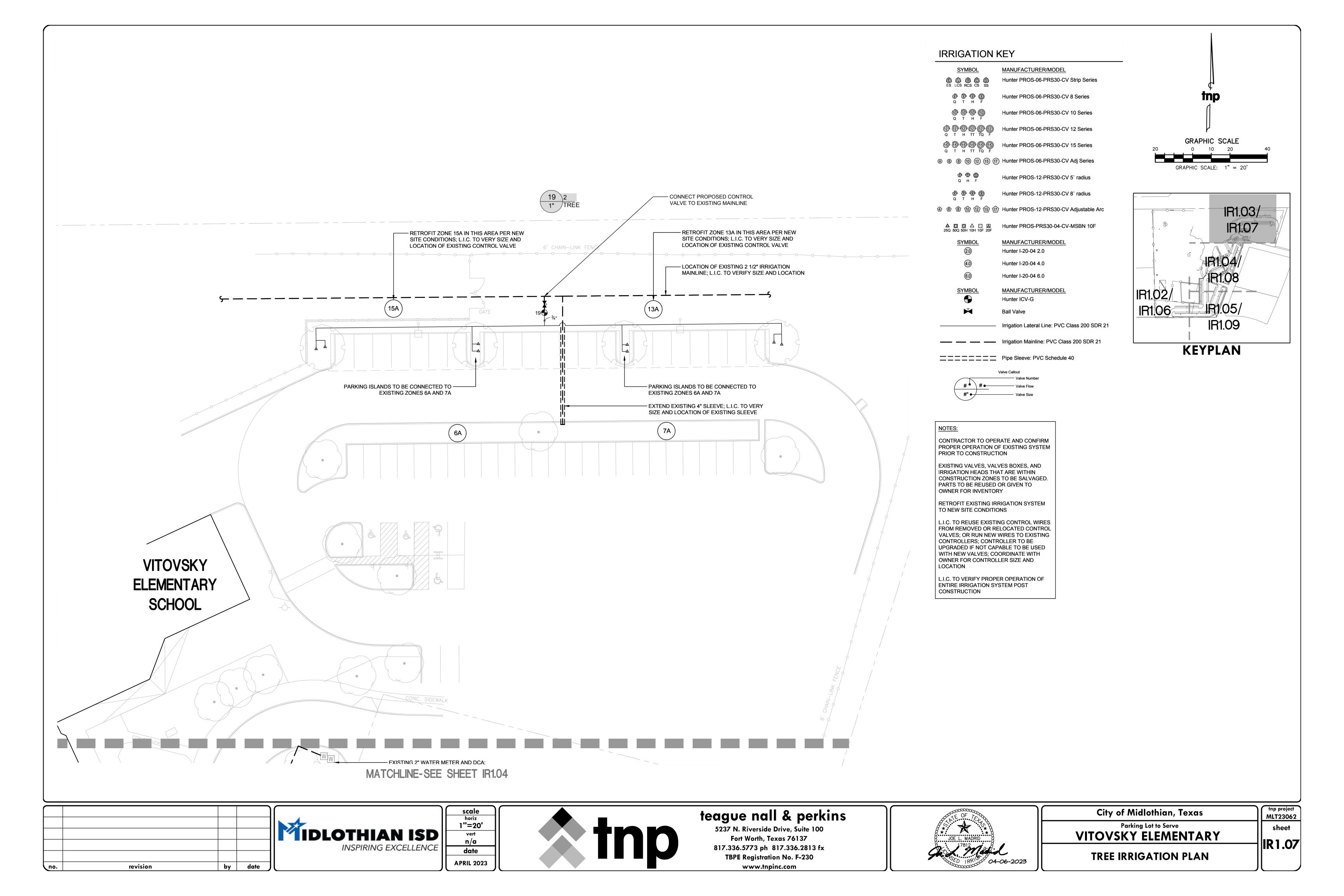


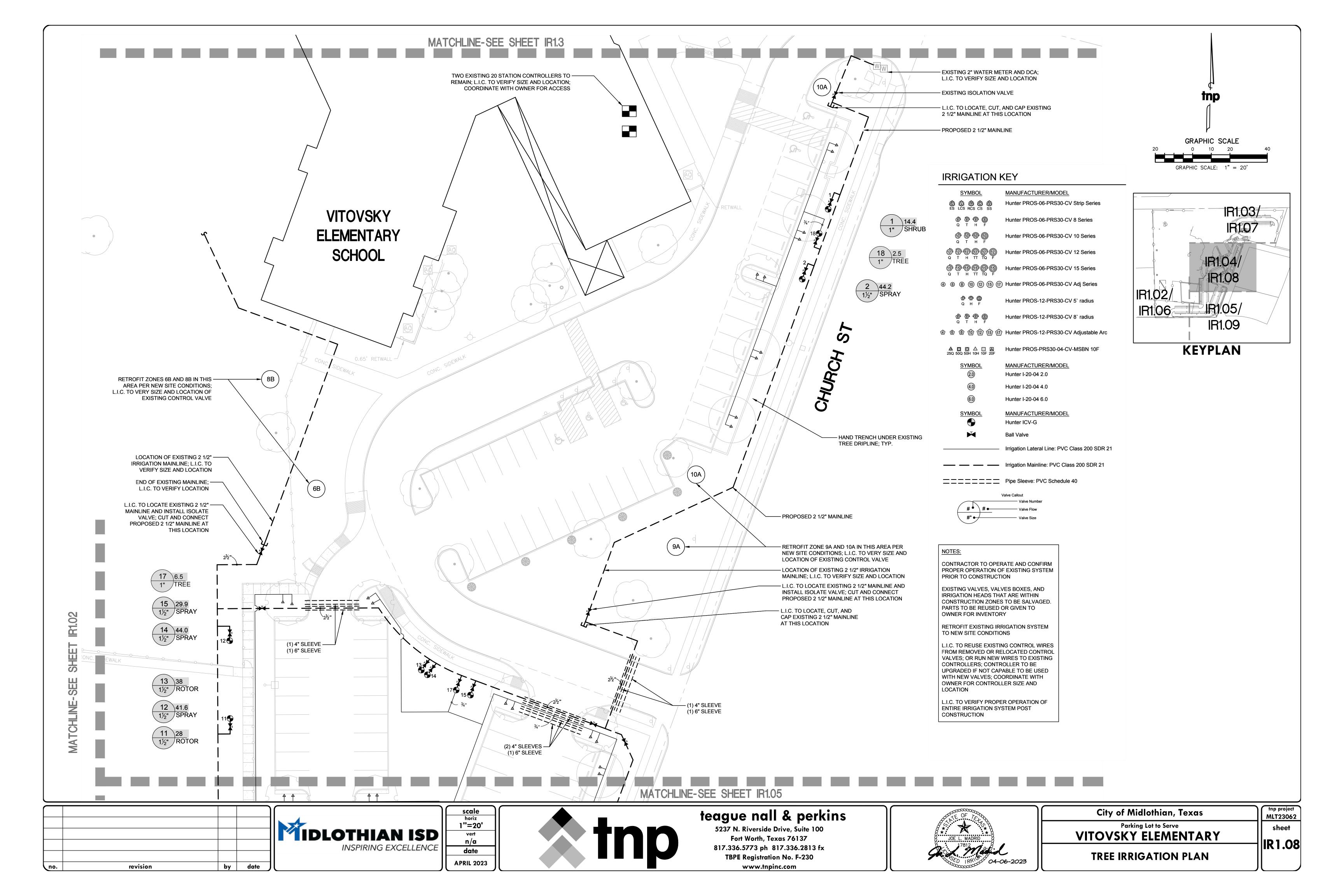
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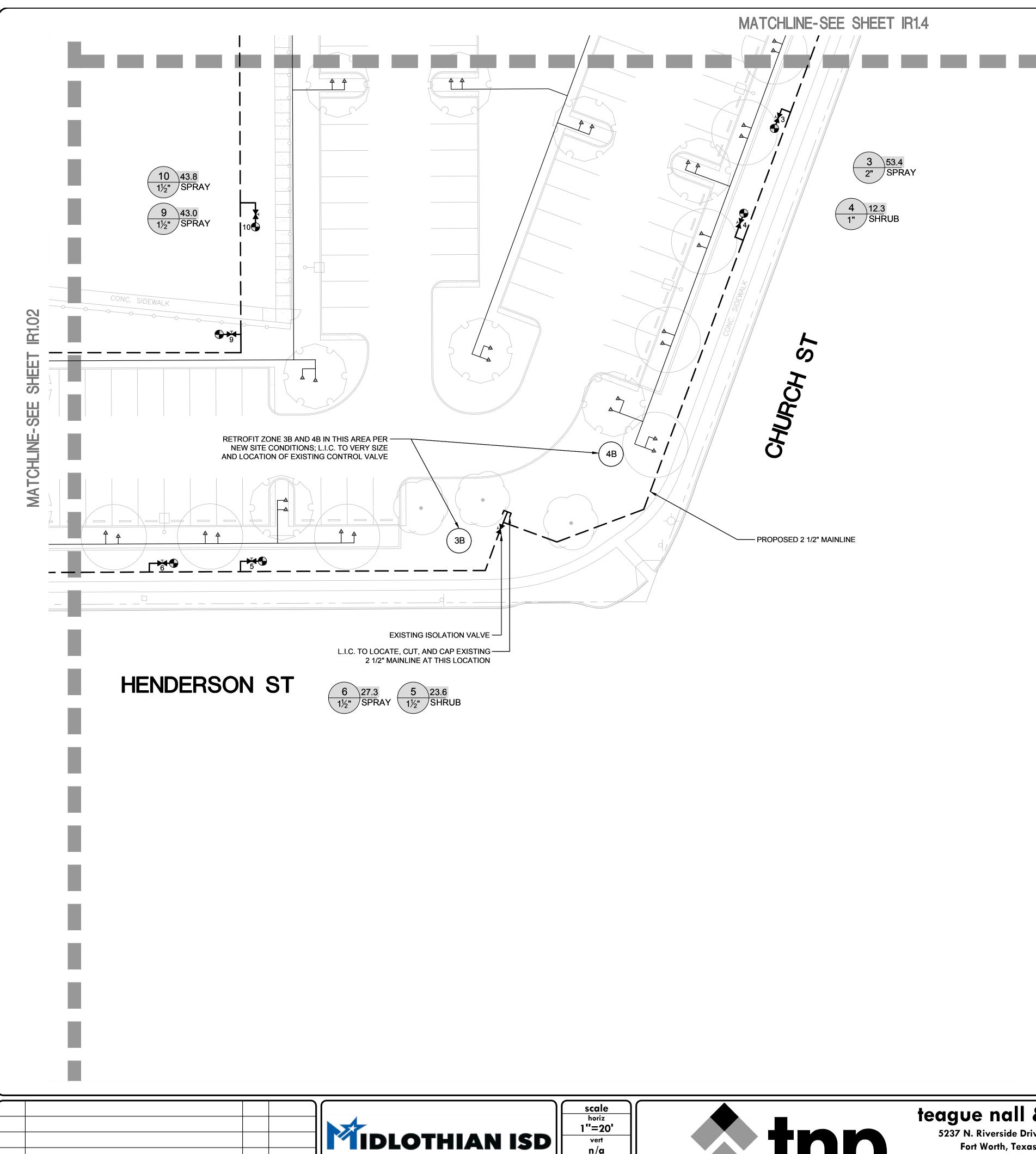
revision











n/a

date

APRIL 2023

INSPIRING EXCELLENCE

revision

by date

IRRIGATION KEY

MANUFACTURER/MODEL ES LCS RCS CS SS Hunter PROS-06-PRS30-CV Strip Series Hunter PROS-06-PRS30-CV 8 Series Hunter PROS-06-PRS30-CV 10 Series

Hunter PROS-06-PRS30-CV 12 Series

Hunter PROS-06-PRS30-CV 15 Series

(4) (6) (8) (10) (12) (15) (17) Hunter PROS-06-PRS30-CV Adj Series

Hunter PROS-12-PRS30-CV 5' radius Hunter PROS-12-PRS30-CV 8' radius

(a) (b) (a) (d) (d) (d) (d) Hunter PROS-12-PRS30-CV Adjustable Arc

Hunter PROS-PRS30-04-CV-MSBN 10F

MANUFACTURER/MODEL Hunter I-20-04 2.0 Hunter I-20-04 4.0

Hunter I-20-04 6.0

MANUFACTURER/MODEL Hunter ICV-G

Ball Valve

Irrigation Lateral Line: PVC Class 200 SDR 21

---- Irrigation Mainline: PVC Class 200 SDR 21

Pipe Sleeve: PVC Schedule 40

Valve Callout

CONTRACTOR TO OPERATE AND CONFIRM PROPER OPERATION OF EXISTING SYSTEM PRIOR TO CONSTRUCTION

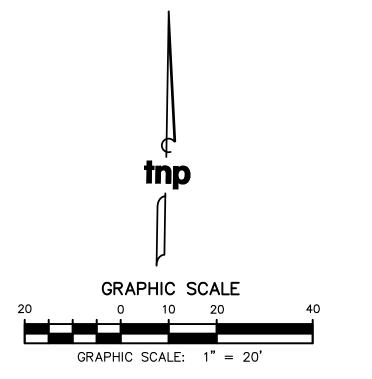
EXISTING VALVES, VALVES BOXES, AND IRRIGATION HEADS THAT ARE WITHIN CONSTRUCTION ZONES TO BE SALVAGED. PARTS TO BE REUSED OR GIVEN TO OWNER FOR INVENTORY

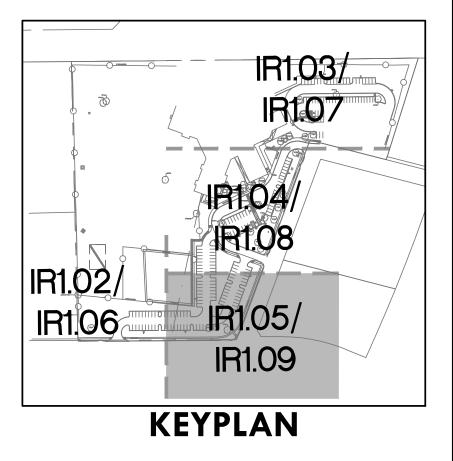
RETROFIT EXISTING IRRIGATION SYSTEM

TO NEW SITE CONDITIONS

L.I.C. TO REUSE EXISTING CONTROL WIRES FROM REMOVED OR RELOCATED CONTROL VALVES; OR RUN NEW WIRES TO EXISTING CONTROLLERS; CONTROLLER TO BE UPGRADED IF NOT CAPABLE TO BE USED WITH NEW VALVES; COORDINATE WITH OWNER FOR CONTROLLER SIZE AND

L.I.C. TO VERIFY PROPER OPERATION OF ENTIRE IRRIGATION SYSTEM POST CONSTRUCTION





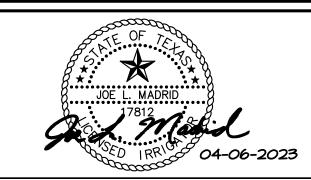
City of Midlothian, Texas

Parking Lot to Serve **VITOVSKY ELEMENTARY**

TREE IRRIGATION PLAN

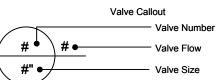
tnp project MLT23062 sheet IR1.09

teague nall & perkins



IRRIGATION SCHEDULE

IRRIGATION S	SCHEDULE				
<u>SYMBOL</u>	MANUFACTURER/MODEL/DESCRIPTION	QTY	<u>PSI</u>		
ES LCS RCS CS SS	Hunter PROS-06-PRS30-CV Strip Series Turf Spray, 30 psi regulated 6in. Pop-Up. With factory installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.	8	30		
(8) (8) (8) Q T H F	Hunter PROS-06-PRS30-CV 8 Series Turf Spray, 30 psi regulated 6in. Pop-Up. With factory installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.	2	30		
(a) (b) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	Hunter PROS-06-PRS30-CV 10 Series Turf Spray, 30 psi regulated 6in. Pop-Up. With factory installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.	18	30		
(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	Hunter PROS-06-PRS30-CV 12 Series Turf Spray, 30 psi regulated 6in. Pop-Up. With factory installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.	145	30		
(3) (3) (3) (3) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	Hunter PROS-06-PRS30-CV 15 Series Turf Spray, 30 psi regulated 6in. Pop-Up. With factory installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.	43	30		
4 6 8 10 12 15 17	Hunter PROS-06-PRS30-CV Adj Series Turf Spray, 30 psi regulated 6in. Pop-Up. With factory installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.	61	30		
® ® ® Q H F	Hunter PROS-12-PRS30-CV 5` radius Shrub Spray, 30 psi regulated 12.0" Pop-Up. With Factory Installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.	1	30		
	Hunter PROS-12-PRS30-CV 8' radius Shrub Spray, 30 psi regulated 12.0" Pop-Up. With Factory Installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.	76	30		
4 6 8 10 12 15 17	Hunter PROS-12-PRS30-CV Adjustable Arc Shrub Spray, 30 psi regulated 12.0" Pop-Up. With Factory Installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.	29	30		
▲ □ ○ △ □ △ 25Q 50Q 50H 10H 10F 20F	Hunter PROS-PRS30-04-CV-MSBN 10F Multi-Stream Bubbler, 4" pop-up, factory installed drain check valve, 25=.25gpm, 50=0.5gpm, 10=1.0gpm, 20=2.0gpm.	66	30		
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	<u>PSI</u>	<u>GPM</u>	<u>RADIUS</u>
2.0	Hunter I-20-04 2.0 Turf Rotor, 4.0" Pop-Up. Adjustable and Full Circle. Plastic Riser. Drain Check Valve. Standard Nozzle.	12	45	2	34'
4.0	Hunter I-20-04 4.0 Turf Rotor, 4.0" Pop-Up. Adjustable and Full Circle. Plastic Riser. Drain Check Valve. Standard Nozzle.	17	45	4	40'
6.0	Hunter I-20-04 6.0 Turf Rotor, 4.0" Pop-Up. Adjustable and Full Circle. Plastic Riser. Drain Check Valve. Standard Nozzle.	2	45	6	43'
<u>SYMBOL</u>	MANUFACTURER/MODEL/DESCRIPTION	QTY			
•	Hunter ICV-G 1", 1-1/2", 2", and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	18			
×	Ball Valve LASCO, Same size as mainline	25			
	Irrigation Lateral Line: PVC Class 200 SDR 21	7,198 l.f.			
	Irrigation Mainline: PVC Class 200 SDR 21	1,799 l.f.			
=======	Pipe Sleeve: PVC Schedule 40	408.4 l.f.			
,	Valve Callout				



VALVE SCHEDULE

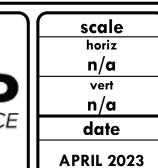
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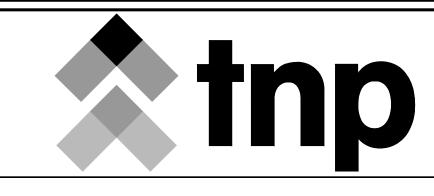
NUMBER	MODEL	SIZE	TYPE	<u>GPM</u>	<u>PSI</u>	PRECIP
1	Hunter ICV-G	1"	Shrub Spray	14.39	35.2	0.89 in/h
2	Hunter ICV-G	1-1/2"	Turf Spray	44.2	34.0	1.45 in/h
3	Hunter ICV-G	2"	Turf Spray	53.45	34.1	1.59 in/h
4	Hunter ICV-G	1"	Shrub Spray	12.27	33.8	0.93 in/h
5	Hunter ICV-G	1-1/2"	Shrub Spray	23.63	35.3	1.05 in/h
6	Hunter ICV-G	1-1/2"	Turf Spray	27.3	32.9	1.5 in/h
7	Hunter ICV-G	1-1/2"	Turf Spray	38.56	33.9	1.58 in/h
8	Hunter ICV-G	1-1/2"	Turf Rotor	38	49.9	0.82 in/h
9	Hunter ICV-G	1-1/2"	Turf Spray	43.01	33.6	1.52 in/h
10	Hunter ICV-G	1-1/2"	Turf Spray	43.84	34.5	1.58 in/h
11	Hunter ICV-G	1-1/2"	Turf Rotor	28	50.4	0.68 in/h
12	Hunter ICV-G	1-1/2"	Turf Spray	41.58	34.2	1.45 in/h
13	Hunter ICV-G	1-1/2"	Turf Rotor	38	50.8	0.76 in/h
14	Hunter ICV-G	1-1/2"	Turf Spray	44.0	35.5	1.63 in/h
15	Hunter ICV-G	1-1/2"	Turf Spray	29.87	34.2	1.85 in/h
16	Hunter ICV-G	1"	Bubbler	7.5	36.5	30.64 in/h
17	Hunter ICV-G	1"	Bubbler	6.5	34.8	30.64 in/h
18	Hunter ICV-G	1"	Bubbler	2.5	32.4	30.64 in/h

TIDLOTHIAN ISD INSPIRING EXCELLENCE

date

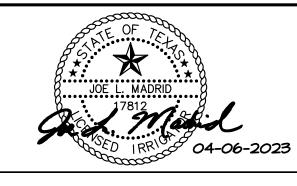
by







5237 N. Riverside Drive, Suite 100
Fort Worth, Texas 76137
817.336.5773 ph 817.336.2813 fx
TBPE Registration No. F-230
www.tnpinc.com



City of Midlothian, Texas

Parking Lot to Serve

/SKY FIFMFNTAR

VITOVSKY ELEMENTARY

IRRIGATION SCHEDULE & NOTES

sheet

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tnp project

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IRRIGATION NOTES

*The following notes are provided as a courtesy to the landscape contractor. Please note that the contractor should refer to all relevant sections provided in the plans.

SECTION 1 - GENERAL

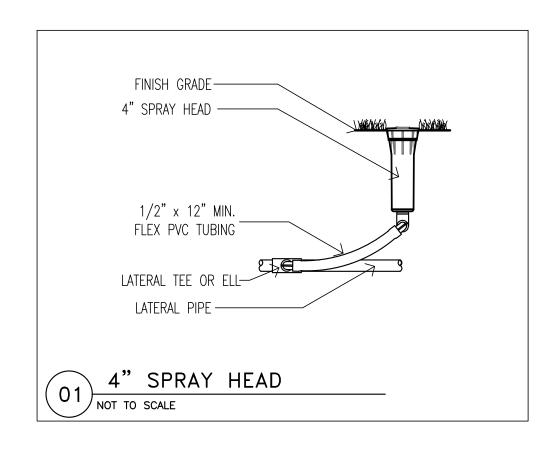
- 1. These notes are intended as a field reference for the Contractor. The Contractor will thoroughly review these notes, as well as the specifications, and drawings prior to start of any work. The Contractor shall visit the site prior to submitting his bid and prior to start of work to become completely familiar with site conditions.
- 2. Contractor shall provide a complete, functioning automatic irrigation system. This includes all materials, labor, fees, taxes, equipment, and other costs incidental to accomplishing the end.
- 3. Contractor shall be a licensed irrigator/installer in the State of Texas.
- 4. It is the responsibility of the Contractor to advise the Licensed Irrigator (hereinafter, LI) of any condition found on the site which prohibits installation as shown on these drawings. The term of "Licensed Irrigator" shall refer to Teague Nall and Perkins, Inc., 5237 N. Riverside Drive, Suite 100, Fort Worth, Texas 76137
- 5. Prior to submitting a bid, the Contractor shall verify any discrepancies between the notes, specifications, or the drawings with the LI for clarification. If there is a discrepancy between the number or quality of materials shown on the plans and the number of materials shown in
- materials legend, the greater number of and greater quality materials will take precedence for bidding purposes. All quantities listed are for information only.
- 6. Written dimensions prevail over scaled dimensions. Notify LI of any discrepancies.
- 7. The Contractor bears all responsibility and costs for obtaining all licenses and permits required by federal, state, and local agencies to accomplish the work of this project. All work shall be installed in accordance with applicable codes and ordinances.
- 8. Contractor shall be responsible for coordinating their work with project's building contractor, other trades, and owner.
- 9. Warning! Call toll-free 811 before you dig! The contractor bears all responsibility for verifying all underground utilities, pipes, and structures in the field prior to construction. Any damage to utilities that are to remain shall be repaired immediately at no expense to the owner. The Contractor shall contact the building contractor and all utility authorities to mark location of site utilities. Install flags or stakes and maintain them in place throughout the project. Damage to utilities or other work shall be repaired at the expense of the contractor responsible for the damage. The locations of existing utilities as shown on these plans are approximate. There may be other underground utilities within the project area that are not shown. LI and/or Engineer and/or Surveyor assumes no responsibility for any utilities not shown on plans.
- 10. The design water pressure necessary for this system's proper operation is 65 p.s.i. Contractor shall verify static water pressure prior to commencement of construction/installation. Should a discrepancy occur between the design pressure and the actual pressure contact the LI before proceeding with the work. Failure to do so should a discrepancy occur will result in the Contractor making necessary changes to the irrigation system to the satisfaction of the LI without additional cost to the Owner or LI.
- 11. Contractor shall operate the existing irrigation system prior to the commencement of installation of the proposed work. Existing heads and mainline shall be located, and the proposed system adjusted to insure adequate irrigation coverage between the two systems.
- 12. Due to existing vegetation, utilities, and other site conditions, the Contractor should anticipate field adjustments by the LI and should understand such adjustments are not eligible for a change order.
- 13. The irrigation system shall have 100% coverage of all planting areas, head-to-head spacing, and matched precipitation rates on each zone. Contractor shall be responsible for the supply and installation of additional heads needed to cover "dry spots" or slight variations from the plan.
- 14. The Contractor shall give the LI notice of required inspections upon completion of each of the following phases:
- A. Pre-Job Conference 7 days.
- B. Pressure supply line installation & testing 48 hours
- C. Automatic controller installation 48 hoursD. Control wire installation 48 hours
- E. Lateral line and irrigation installation 48 hours
- F. Coverage test 48 hoursG. Final inspection 7 days
- 15. The entire system shall be unconditionally guaranteed by the Contractor against defective work and materials for a period of one year after final acceptance. Damage to the irrigation system or cutting off of water or electricity by other trades or persons shall not void the warranty.
- 16. It is the contractor's responsibility to insure the availability of water to the plants at all times until final acceptance.
- 17. LI assumes no responsibility for damages, liabilities, or cost resulting from changes or alterations made to the plan without the express written consent of LI.

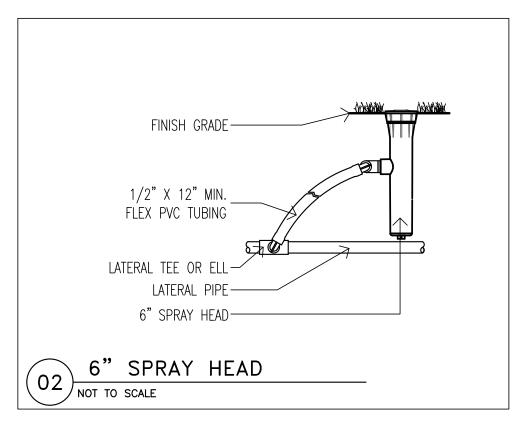
SECTION 2 - MATERIALS

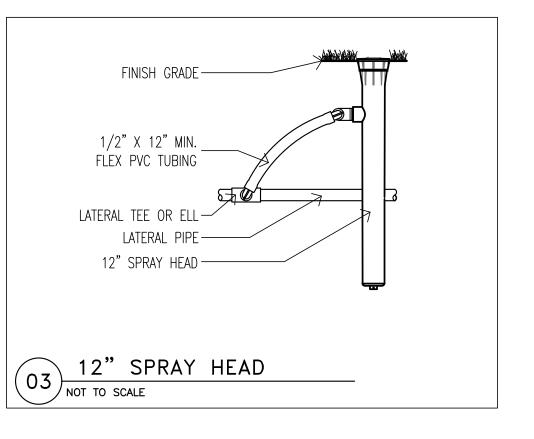
- 18. All materials are subject to approval or refusal by the LI. All material rejected by the LI shall be removed from the site and replaced with acceptable material at the Contractor's expense. All material to be new and first quality. The Contactor shall check all material for specified requirements, shipping damage, manufacturing defects, and shall reject all unsatisfactory materials.
- 19. Contractor shall install anti-drain devices (check valves) where necessary to prevent low head drainage and shall install pressure compensating devices where necessary to prevent overspray or misting.
- 20. Do not make substitutions. If specified material is not available, submit proof of non-availability to LI. If contractor wishes to use substitute equipment he shall submit cut sheets and detailed calculations for the LI's approval or rejection. All substitutions shall have written approval form the LI 30 days prior to installation.
- 21. Contractor shall install one extra control wire, routed with the common wire to each control valve, with the installation of the pilot and common wires. (for bidding clarity, consider the extra control wire as a second common wire, different color. The length of the extra control wire is equal to the length of the common wire).
- 22. All control wire shall be direct burial, 600 volt, single conductor solid copper, plastic insulated cable, rated for direct burial applications, U.F., U.L. approved 14 gauge (minimum) pilot and common ground return wire.
- Pilot Wire: red (color)
- Common Ground Wire: white (color)Extra Control Wire: blue (color)
- 23. Install all wire connections to valves with wire nuts inside DBY weather-sealed connectors.

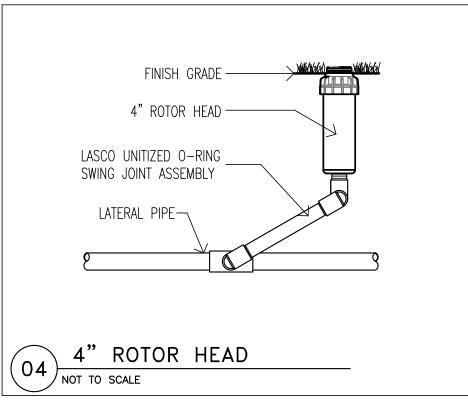
SECTION 3 - EXECUTION

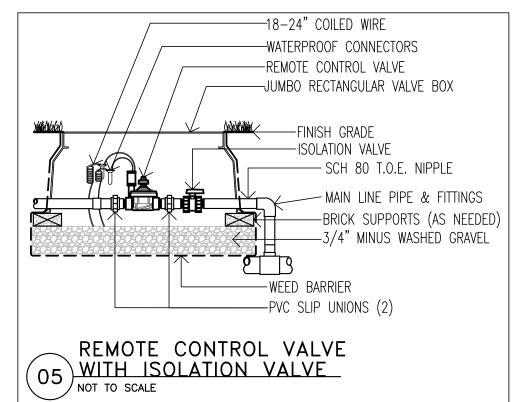
- 24. All locations and workmanship are subject to approval or refusal by the LI. All locations and workmanship rejected by the LI shall be remedied at the Contractor's expense. All piping and head layout is shown diagrammatically and is to be located in planting areas where possible. Locate lines in such a way so as to cause the least conflict with other built and natural features.
- 25. The Irrigation Contractor shall be responsible for the final electrical connection of the controller. This shall include all necessary fuse boxes or other electrical requirements.
- 26. No installation (except sleeving) of any piping will take place until all clean-up and rough grading (to within 2" of finish grade) is complete in the immediate area.
- 27. If an irrigation pump is specified, the Contractor shall test the pump in presence of LI to verify it meets specified flow at the specified pressure and submit test results to LI for approval. No irrigation work shall begin until specified water quality, pressure, and flow is provided.
- 28. Installation of irrigation sleeves under paving as indicated on the drawings, shall be the responsibility of the Irrigation Contractor, unless otherwise noted. Provide 12" to top of sleeve from bottom of pavement when going under pavement. All sleeves shall be PVC schedule 40 with #12 pull wire wherever electrical conduit, lateral irrigation lines, or main irrigation lines pass through or go under masonry, paving, etc. It is the responsibility of the Irrigation Contractor to locate and mark the sleeve ends.
- 29. Contractor to provide minimum cover of 18" for pressure mainline and 12" for lateral lines. Lateral lines may be installed over mainlines.
- 30. Contractor shall hand trench through the root zone (within the dripline) of existing trees taking care not to cut any roots larger than one (1") inch Where possible contractor shall trench around trees to avoid cutting roots. Where possible contractor shall trench directly towards tree trunk rather than across the root zone to minimize damage to tree roots. Irrigation trenches shall be routed to avoid proposed tree locations by a minimum of 5'-0". See landscape planting plans prior to trenching and installation and coordinate work with Landscape Contractors.
- 31. All heads shall be straight and plumb to grade and evenly spaced to provide for uniform distribution. All heads shall be adjusted to provide even coverage and to keep water in landscaped areas and off of walls and pavement.
- 32. Contractor shall flush all lines prior to nozzle installation for pop-up spray heads and prior to head installation for rotor heads and bubblers.
- 33. Prior to installation, the final location of the automatic controller shall be determined by the Owner and LI.
- 34. Provide the LI and Owner a reproducible, As-Built Record Drawings (same size as drawing) and a reduced, laminated copy for the inside of the controller. As-built drawings shall show valves, controller, and sleeves dimensionally located from two permanent points of reference. Contractor shall also provide all irrigation product information and controller operating manuals.
- 35. All limestone, rocks, and building materials dug up during trenching shall be removed from the site and not put back into trenches.
- 36. Contractor is to test water for staining potential and submit results to LI. Install LI approved filtration system to prevent staining.
- 37. Contractor shall make every effort to prevent staining of walls, walks, driveways, vehicles, or other structures. Contractor guarantees job against such staining for thirty (30) days. Contractor shall install a suitable rust prevention system if required to prevent staining.
- 38. The entire irrigation system shall be fully-maintained until final acceptance by continuously checking the system to ensure that plants are receiving the proper amount of water. Any broken or defective materials shall be immediately replaced with material originally specified.

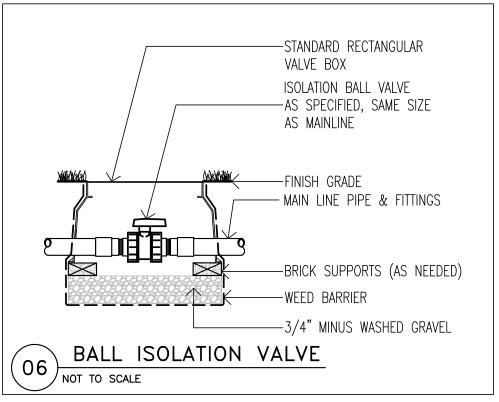


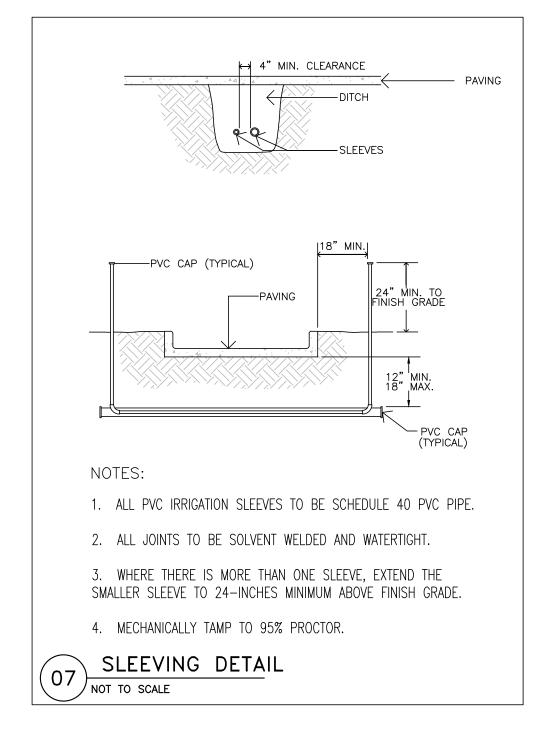


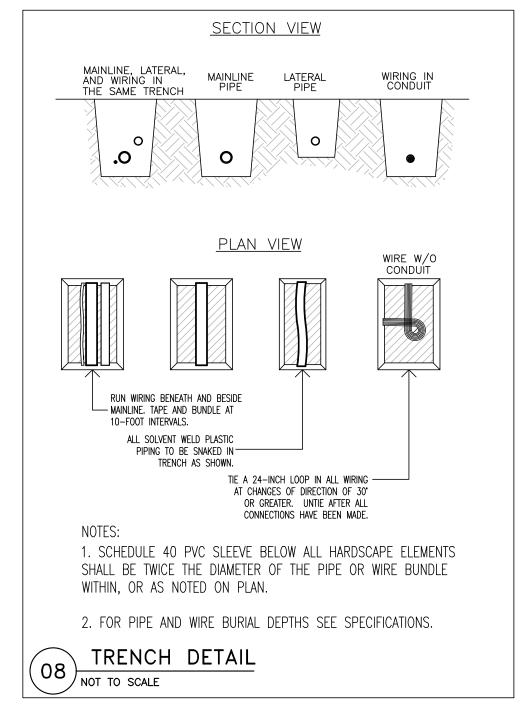


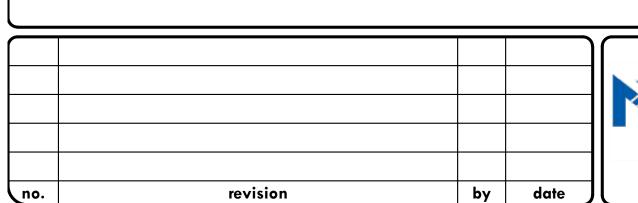














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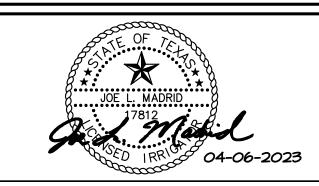
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Fort Worth, Texas 76137 817.336.5773 ph 817.336.2813 fx TBPE Registration No. F-230 www.tnpinc.com



City of Mic	dlothian, '	Texas
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Parking Lot to Serve

VITOVSKY ELEMENTARY IRRIGATION DETAILS

MLT23062 sheet |IR1.11

tnp project

DIVISION 26 ELECTRICAL SPECIFICATIONS

- PROVIDE ALL EQUIPMENT MATERIALS, LABOR, SUPERVISION AND SERVICES NECESSARY FOR, OR INCIDENTAL TO, THE INSTALLATION OF A COMPLETE AND OPERATING ELECTRICAL SYSTEM AS SHOWN OR INDICATED ON THE DRAWINGS AND/OR SPECIFIED. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO PROTECT ALL EXISTING OPERATIONS AND PROPERTY ADJACENT, WITH WHICH WORK COMES IN CONTACT, MOVE MATERIALS, EQUIPMENT, DEBRIS, ETC., AND SHALL SATISFACTORILY REPAIR ALL DAMAGE CAUSED DURING CONSTRUCTION. THE CONTRACTOR SHALL REPLACE FAILING MATERIALS AND/OR EQUIPMENT WITH NEW MATERIALS AND/OR EQUIPMENT TO GIVE SATISFACTORY SERVICE DURING THE GUARANTEE PERIOD. THE CONTRACTOR SHALL COORDINATE AND NOTIFY THE OWNER FOR APPROVAL AND SCHEDULING OF ANY EXISTING BUILDING SYSTEM INTERRUPTIONS.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED RECOMMENDATIONS FOR INTENDED USE, AS INTERPRETED BY THE ARCHITECT. THE INSTALLATION OF ALL EQUIPMENT SHALL BE MADE BY EXPERIENCED CRAFTSMEN IN A NEAT, WORKMANLIKE MANNER. ALL MATERIALS, TOOLS, COSTS, AND SERVICES NECESSARY TO COMPLETELY INSTALL ALL ELECTRICAL WORK SHALL BE FURNISHED BY THE CONTRACTOR.
- MATERIALS AND WORKMANSHIP SHALL COMPLY WITH CONTRACT DOCUMENTS, APPLICABLE CODES & STANDARDS. IN CASE OF DIFFERENCE BETWEEN APPLICABLE CODES & STANDARDS AND THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT IN WRITING OF SUCH DIFFERENCE, SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF APPLICABLE CODES AND STANDARDS, THE CONTRACTOR SHALL BEAR ALL COSTS RELATED TO THE CORRECTION OF SUCH CONFLICTS.
- THE CONTRACTOR SHALL VISIT THE PREMISES TO BECOME THOROUGHLY FAMILIAR WITH ALL DETAILS OF THE WORK, WORKING CONDITIONS AND VERIFY ALL DIMENSIONS IN THE FIELD, AND SHALL ADVISE THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO
- 5. IT IS THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS THAT THE CONTRACTOR SHALL PROVIDE AN ELECTRICAL INSTALLATIONS THAT ARE COMPLETE AND INCLUDE ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLY INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFICALLY CALLED OUT OR SHOWN.
- CONTRACTOR SHALL COORDINATE ALL MECHANICAL AND PLUMBING EQUIPMENT, SIZES AND LOCATIONS WITH MECHANICAL & PLUMBING DRAWINGS AND SPECIFICATIONS. PROVIDE REQUIRED ELECTRICAL DISCONNECT SWITCHES, FUSES, CIRCUIT BREAKERS, BRANCH CIRCUITS, CONTROL CONDUITS AND CONDUCTORS NECESSARY FOR PROPER OPERATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL MATERIALS AND LABOR TO INSTALL FULLY FUNCTIONAL SYSTEMS IN ACCORDANCE WITH THE INTENT DISPLAYED IN THESE DOCUMENTS AND TO COMPLY WITH ALL CODES.

B. CODES AND STANDARDS

CONTRACTOR SHALL COMPLY WITH LATEST INDUSTRY STANDARDS, CODES, OR ORDINANCES, RULES, REGULATIONS, ORDERS AND OTHER LEGAL REQUIREMENTS.

C. SUBMITTAL DATA

- SUBMITTAL DATA SHALL INCLUDE BUT IS NOT LIMITED TO, THE FOLLOWING:
- a. BUSHINGS: LOCKNUTS AND CONNECTORS; WIREWAYS, RACEWAYS, JUNCTION, PULL AND OUTLET BOXES.
- CONDUCTORS 600V OR LESS. FIRE STOPPING.
- GROUNDING CONDUCTORS AND CONNECTORS.
- IDENTIFICATION NAMEPLATES.
- SUPPORTING DEVICES.
- 600V AND BELOW: PANELBOARDS, CIRCUIT BREAKERS, MOTOR STARTERS AND DISCONNECTS.

D. TEMPORARY WORKING ACCESS

- REMOVE EXISTING WIRES, CONDUIT, EQUIPMENT, FIXTURES, AND OTHER ITEMS AS REQUIRED TO PROVIDE ACCESS FOR WORK IN
- REINSTALL AND REFINISH ITEMS TO REMAIN THAT WERE REMOVED, OR OTHERWISE DAMAGED, TO MATCH EXISTING ADJACENT SURFACES UPON COMPLETION OF THE WORK.

E. DISRUPTION OF EXISTING FUNCTIONS

- ACCESS: ACCESS TO AND USE OF THE EXISTING FACILITIES AND SITE WILL BE RESTRICTED, AND SHALL BE UNDER THE DIRECTION AND CONTROL OF THE OWNER OR SITE MANAGER.
- DISRUPTIONS: MAINTAIN EXISTING ELECTRICAL, COMMUNICATIONS, ALARM, AND OTHER EXISTING SYSTEMS, AND MAINTAIN EXISTING FUNCTIONS IN SERVICE EXCEPT FOR SCHEDULED DISRUPTIONS.
- SCHEDULING OF DISRUPTIONS: SEEK AND OBTAIN APPROVAL THREE DAYS IN ADVANCE OF EVENT FOR DATE, STARTING TIME, AND DURATION OF EACH REQUIRED DISRUPTION.
- NOTICE OF DISRUPTION: DATE, TIME AND DURATION OF EACH DISRUPTION SHALL BE SUBJECT TO THE OWNER OR SITE MANAGER'S PRIOR APPROVAL, AND SHALL INCLUDE THE ABOVE INFORMATION IN THE FORM OF A MEMORANDUM SUBMITTED BY THE CONTRACTOR TO THE OWNER OR SITE MANAGER FOR APPROVAL.

F. MOUNTING SUPPORTS

- PROVIDE APPROPRIATE MOUNTING SUPPORTS WITHIN THE BUILDING ELEMENTS AS REQUIRED FOR INSTALLATION OF PANELBOARDS, ACCESS PANELS, JUNCTION BOXES, CONDUITS, PULL BOXES, AND OTHER DEVICES AND CABINETS WHICH INSTALL SURFACE AND/OR RECESSED INTO WALLS, FLOORS AND CEILINGS. NO PERFORATED STRAPS OR TIE WIRES SHALL BE PERMITTED.
- 2. PROVIDE UNISTRUT BEHIND PANELS MOUNTING TO CMU WALLS.
- 3. USE CAST "C" CLAMPS, "U" STRAPS OR RING HANGERS ATTACHED TO RODS, AND/OR BRACKETS FASTENED TO STRUCTURE FOR
- 4. SUPPORT GROUPED RACEWAYS TOGETHER IN HORIZONTAL RUNS ON TRAPEZE HANGERS CONSTRUCTED OF UNISTRUT OR EQUAL SUSPENDED FROM CAD-PLATED STEEL RODS.

G. FIRESTOPPING

- PROVIDE FIRESTOPPING AND SEALING OF PENETRATIONS IN FIRE-RATED CONSTRUCTION, HORIZONTAL AND VERTICAL, UTILIZING THE FOLLOWING MATERIALS:
- a. FOAM: DOW CORNING FIRESTOP SILICONE RTV FOAM, CAT #2001 OR EQUAL.
- b. SEALANT: DOW CORNING FIRESTOP RTV SILICONE SEALANT, CAT #2000 OR EQUAL. DAMMING MATERIALS: MINERAL FIBERBOARD, MINERAL FIBER MATTING, MINERAL FIBER PUTTY, PLYWOOD OR PARTICLE BOARD, AS SELECTED BY THE APPLICATOR.

H. IDENTIFICATION

- 1. PROVIDE THE NECESSARY MEANS TO CLEARLY AND PERMANENTLY IDENTIFY EACH ITEM OF EQUIPMENT.
- 2. PROVIDE EQUIPMENT WITH PLASTIC NAMEPLATES, CORRELATED TO THE DESIGNATION USED ON THE DRAWINGS.
- 3. LABEL ALL JUNCTION BOXES WITH CIRCUIT INFORMATION OR ITS USE. I.E.: F/A, TELECOM.

I. CONDUIT

- PROVIDE COMPLETE RACEWAY SYSTEM FOR ALL WIRING UNLESS SPECIFICALLY NOTED OTHERWISE. THIS INCLUDES, BUT IS NOT LIMITED TO, BRANCH CIRCUIT WIRING, CONTROL WIRING, AND AUXILIARY SYSTEMS WIRING, UNLESS SPECIFIED TO THE CONTRARY HEREIN OR ON DRAWINGS. PROVIDE ADEQUATE AND STURDY SUPPORT FOR ALL PARTS OF RACEWAY SYSTEM. INSTALL NYLON PULL CORD IN ALL EMPTY ELECTRICAL RACEWAYS.
- 2. RACEWAYS SHALL BE SIZED AS INDICATED ON THE DRAWINGS AND AS REQUIRED BY THE NEC TO PREVENT DAMAGE TO THE CONDUCTORS. DO NOT USE RACEWAYS SIZED LESS THAN 3/4" UNLESS SPECIFIED OTHERWISE.

- 3. PROVIDE GALVANIZED RIGID METAL RACEWAYS FOR ALL USES IN DAMP AND WET LOCATIONS, IN CRAWL SPACES, IN HAZARDOUS AREAS, AND IN LOCATIONS SUBJECT TO PHYSICAL DAMAGE.
- 4. PROVIDE GALVANIZED ELECTRIC METALLIC TUBING WITH STEEL, WATERTIGHT, COMPRESSION TYPE FITTINGS FOR ALL OTHER USES
- 5. PROVIDE SCHEDULE 40 PVC CONDUITS BELOW GROUND FOR SITE LIGHTING AND OTHER OUTDOOR APPLICATIONS AS MAY BE
- 6. ALL EMT ENTERING BOXES SHALL BE SECURED WITH INSULATING THROAT CONNECTORS AND LOCKNUTS.
- 7. NO RACEWAY SHALL BE LOCATED IN PROXIMITY OF HOT WATER LINES OR EXCESSIVE HEAT.
- 8. PROVIDE LIQUIDTIGHT FLEXIBLE CONDUIT CONNECTION FOR FINAL CONNECTION TO EACH MOTOR NOT TO EXCEED 24 INCHES IN
- 9. COORDINATE ROUTING OF CONDUITS IN EXISTING CONSTRUCTION WITH THE OWNER.
- 10. ALL EXPOSED RACEWAYS SHALL BE INSTALLED WITH RUNS PARALLEL AND/OR PERPENDICULAR WITH BUILDING WALLS.
- 11. PENETRATIONS OF WALLS, FLOORS, AND ROOF FOR THE PASSAGE OF ELECTRICAL RACEWAYS SHALL BE APPROVED BY THE ARCHITECT. ALL SUCH PENETRATIONS SHALL BE PROPERLY SEALED OFF AFTER INSTALLATION OF RACEWAYS SO AS TO MAINTAIN THE STRUCTURAL, WATERPROOF, AND FIREPROOF INTEGRITY OF THE WALL, FLOOR, OR ROOF SYSTEM PENETRATED.

J. JUNCTION AND PULL BOXES

1. JUNCTION AND PULL BOXES 100 CUBIC INCHES IN VOLUME AND SMALLER SHALL BE STANDARD OUTLET BOXES. THOSE LARGER THAN 100 CUBIC INCHES SHALL BE CONSTRUCTED AS SPECIFIED FOR CABINET CONSTRUCTION AND SHALL BE FURNISHED WITH COVERS. BOXES SHALL BE FACTORY-FABRICATED FROM GALVANIZED STEEL TO PREVENT CORROSION.

- 1. AT EACH OUTLET SHOWN, PROVIDE A BOX OF SUITABLE SIZE AND CONSTRUCTION.
- 2. CEILING OUTLETS SHALL BE 4-INCH SQUARE BOXES OF THE APPROPRIATE DEPTH.

1. PROVIDE IN EACH EMPTY CONDUIT A NYLON PULL CORD TO FACILITATE THE FUTURE INSTALLATION OF CONDUCTORS.

M. SYSTEMS OF CONDUCTORS

- 1. PROVIDE NEW CONDUCTORS HAVING "THWN" OR "THHN" INSULATION RATED NOT LESS THEN 600 VOLTS. CONDUCTORS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC FOR THE ELECTRICAL SERVICES AND DISTRIBUTION INVOLVED.
- 2. NO WIRE SMALLER THAN NO. 12 AWG SHALL BE UTILIZED FOR LIGHTING OR POWER CIRCUIT, AND NONE SMALLER THAN NO. 14 SHALL BE UTILIZED FOR ANY CONTROL CIRCUIT.
- 3. CONDUCTORS NO. 10 AND SMALLER SHALL BE SOLID UNLESS OTHERWISE SPECIFIED OR INDICATED.
- 4. FOR HOME RUNS OVER 60 FEET LONG, USE MINIMUM #10 CONDUCTORS.
- 5. FOR HOME RUNS OVER 100 FEET LONG, USE MINIMUM #8 CONDUCTORS.
- 6. MAKE ALL CONNECTIONS WITH U.L. APPROVED SOLDERLESS PRESSURE TYPE INSULATED CONNECTORS: SCOTCHLOCK, OR AN

N. WIRING DEVICES AND ACCESSORIES

- WIRING DEVICES SHALL BE FURNISHED IN GRAY WITH STAINLESS STEEL FACEPLATES, EXCEPT FOR DEVICES ON EMERGENCY POWER, WHICH SHALL BE RED IN COLOR.
- 2. WALL SWITCHES: LIGHTING CIRCUITS SHALL BE PROVIDED WITH SPECIFICATION GRADE HP RATED, UL LISTED, SIDE AND BACK-WIRED, FLUSH TUMBLER SWITCHES RATED 20- AMP, 120-VOLTS, UNLESS OTHERWISE NOTED.
- 3. STANDARD WALL RECEPTACLES SHALL BE SPECIFICATION GRADE, RATED 20-AMP, 120-VOLT, 3-WIRE, GROUNDING TYPE, BACK AND
- 4. PROVIDE A DEVICE PLATE FOR EACH OUTLET INSTALLED.

PANELBOARDS

1. RE-USE EXISTING PANELBOARDS AND PROVIDE UPDATED TYPED PANEL LABEL CARDS FOR ALL EXISTING PANELS.

P. MOTOR AND HVAC WIRING AND CONNECTIONS:

- 1. PROVIDE ALL NECESSARY CONDUIT, BOXES, SUPPORTS, AND WIRING FOR THESE ITEMS.
- 2. REFER TO THE MECHANICAL DRAWINGS FOR THE EXTENT AND SCOPE OF THIS WORK.
- 3. PROVIDE NEC DISCONNECT SWITCH FOR EACH MOTOR OR HVAC UNIT AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.
- 4. INSTALL ALL CONDUCTORS AND PROTECTIVE DEVICES IN STRICT CONFORMANCE WITH APPLICABLE CODES, REGARDLESS OF ANY PLAN DISCREPANCIES AND/OR MECHANICAL EQUIPMENT SIZE VARIATIONS.

Q. GROUNDING

- 1. GROUNDING SYSTEM SHALL COMPLY WITH APPLICABLE STATE AND LOCAL CODES AND ORDINANCES, WITH THE REQUIREMENTS OF OTHER AUTHORITIES HAVING JURISDICTION WITH THE NEC, AND APPLICABLE NFPA STANDARDS.
- 2. PROVIDE SEPARATE GROUND WIRE FOR ALL CIRCUITS.

R. LIGHTING

- 1. CONTRACTOR SHALL FURNISH AND INSTALL ALL LIGHTING FIXTURES AS SPECIFIED AND WHERE SHOWN.
- 2. CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING AND POWER AS REQUIRED.

S. CUTTING AND PATCHING

1. CONTRACTOR SHALL DO ALL NECESSARY CUTTING AND DRILLING OF WALLS, FLOORS, CEILINGS, ETC. FOR THE INSTALLATION OF WORK; ALL EXPOSED BUILDING SURFACES DAMAGED BY INSTALLATION OF ELECTRICAL WORK SHALL BE PATCHED AND FINISHED IN THE SAME MATERIALS AND MANNER AS ADJACENT AREAS.

T. GUARANTEE

1. THE CONTRACTOR SHALL GUARANTEE THE ENTIRE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER THE DATE OF FINAL ACCEPTANCE.

ELECTRICAL LEGEND POLE MOUNTED OUTDOOR AREA LIGHT FIXTURE (SINGLE OR MULTIPLE HEADS PER POLE) WALL JUNCTION BOX ELECTRICAL PANELBOARD DISCONNECT SWITCH \Box

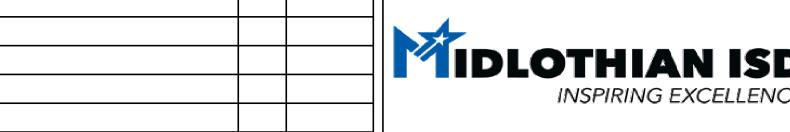
GENERAL POWER NOTES:

- 1. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, REGULATIONS AND REQUIREMENTS OF THE SERVICE UTILITY
- 2. ALL WORK SHALL COMPLY WITH THE BUILDING OWNER'S CONSTRUCTION GUIDELINES.
- 3. ALL CIRCUITS SHOWN SHALL BE 120V, 20A CIRCUITS UNLESS NOTED OTHERWISE.
- 4. ALL CONDUCTORS SHALL BE #12 AWG UNLESS NOTED OTHERWISE.
- 5. ALL 120V RUNS LONGER THAN 60' SHALL BE #10 AWG UNLESS NOTED OTHERWISE ON THE PLANS.
- 6. ALL CONDUCTORS SHALL BE COPPER (#10 AND SMALLER SHALL BE SOLID).
- 7. WHERE CONDUCTOR SIZES ARE NOTED ON DRAWINGS, THAT CONDUCTOR SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS NOTED OTHERWISE.
- 8. PANELBOARD DIRECTORIES SHALL BE COMPLETELY FILLED OUT TO ACCURATELY IDENTIFY EACH CIRCUIT (EXISTING AND NEW CIRCUITS) IN ALL PANELS WITHIN SCOPE OF WORK. DIRECTORIES SHALL BE TYPEWRITTEN.
- 9. ELECTRIC CONNECTIONS TO PANELBOARDS AND BUS DUCTS SHALL BE MADE ONLY WHEN PANELBOARD OR BUS DUCT HAS BEEN DE-ENERGIZED.



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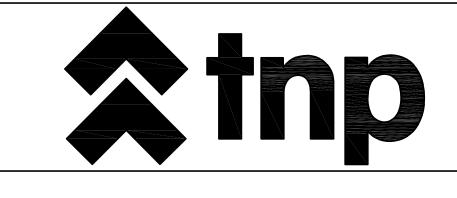
by date



1"=50'

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APRIL 2023

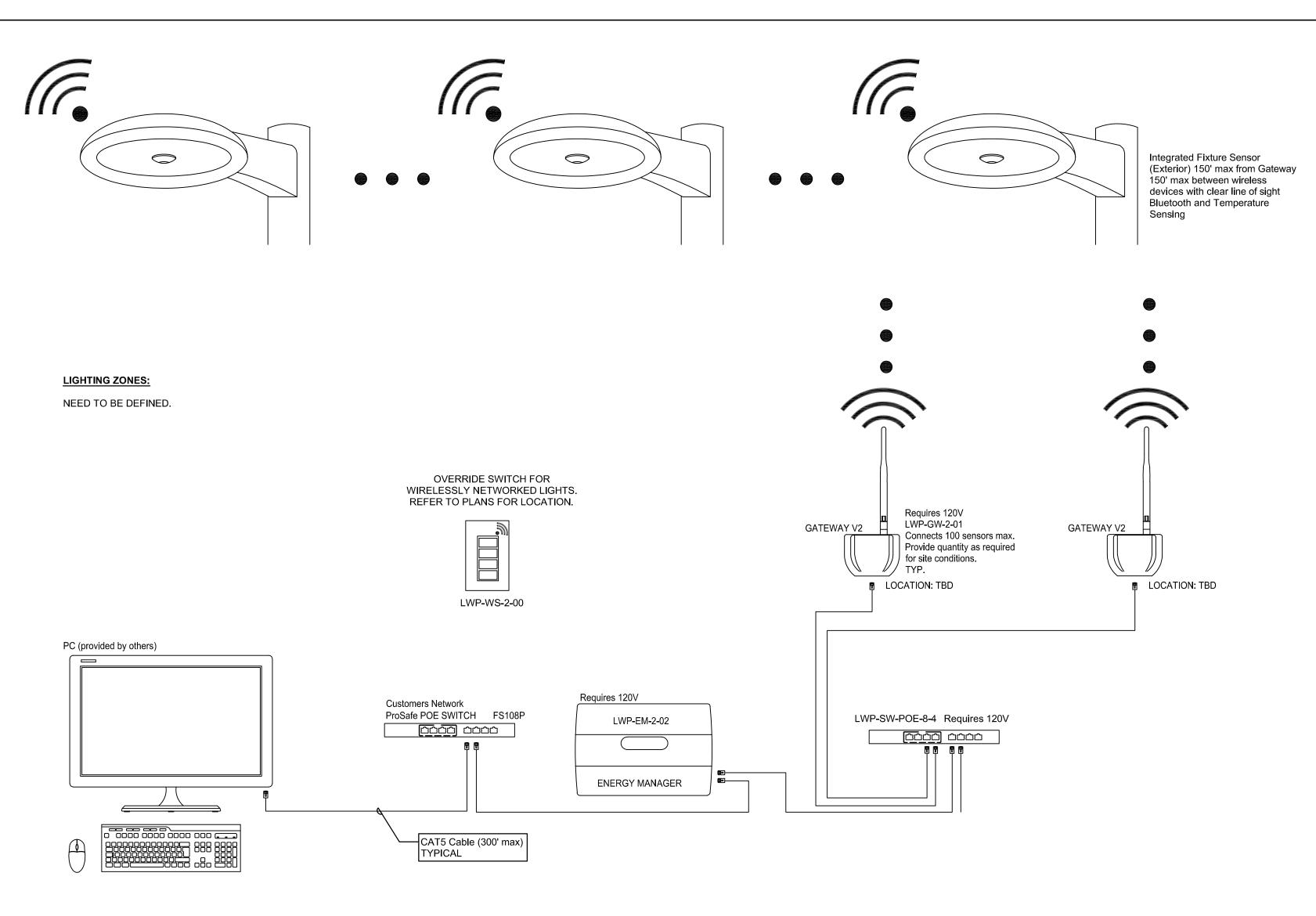


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Midlothian ISD Parking Lot to Serve VITOVSKY ELEMENTARY SPECIFICATIONS, LEGEND, & NOTES

tnp project MLT23062



WIRELESS CONTROL RISER DIAGRAM - SITE LIGHTING NOT TO SCALE

TYPE	DESCRIPTION	VOLTAGE	WATTAGE	LAMPS		MODEL
S 1	NEW LED AREA SITE LIGHTING FIXTURE, DIE-CAST ALUMINUM HOUSING, POLYESTER FINISH, DIMMING DRIVER, TYPE 4 FORWARD THROW DISTRIBUTION, 30' POLE. WIRELESS SENSOR, 30' SQUARE STEEL POLE	277	279	LED	MC GRAW-EDISON	LIGHT FIXTURE: GLEON-SA5C-740-U-T4FT-HSS-X-LWR-LN-ZWSWPD5 ; POLE- SSS-5-M-30-S-X-N-1
S2	NEW LED AREA SITE LIGHTING FIXTURE, DIE-CAST ALUMINUM HOUSING, POLYESTER FINISH, DIMMING DRIVER, TYPE 2 DISTRIBUTION, 30' POLE. WIRELESS SENSOR, 30' SQUARE STEEL POLE	277	279	LED	MC GRAW-EDISON	LIGHT FIXTURE: GLEON-SA5C-740-U-T2-X-LWR-LN-ZWSWPD5 ; POLE- SSS-5-M-30-S-X-N-1
S2	NEW LED AREA SITE LIGHTING FIXTURE, DIE-CAST ALUMINUM HOUSING, POLYESTER FINISH, DIMMING DRIVER, TYPE 2 DISTRIBUTION WITH HOUSE SIDE SHIELD, 30' POLE. WIRELESS SENSOR, 30' SQUARE STEEL POLE	277	279	LED	MC GRAW-EDISON	LIGHT FIXTURE: GLEON-SA5C-740-U-T2-HSS-X-LWR-LN-ZWSWPD5 ; POLE- SSS-5-M-30-S-X-N-1

LIGHTING CONTROLS NARRATIVE

PARKING LOT LIGHTING

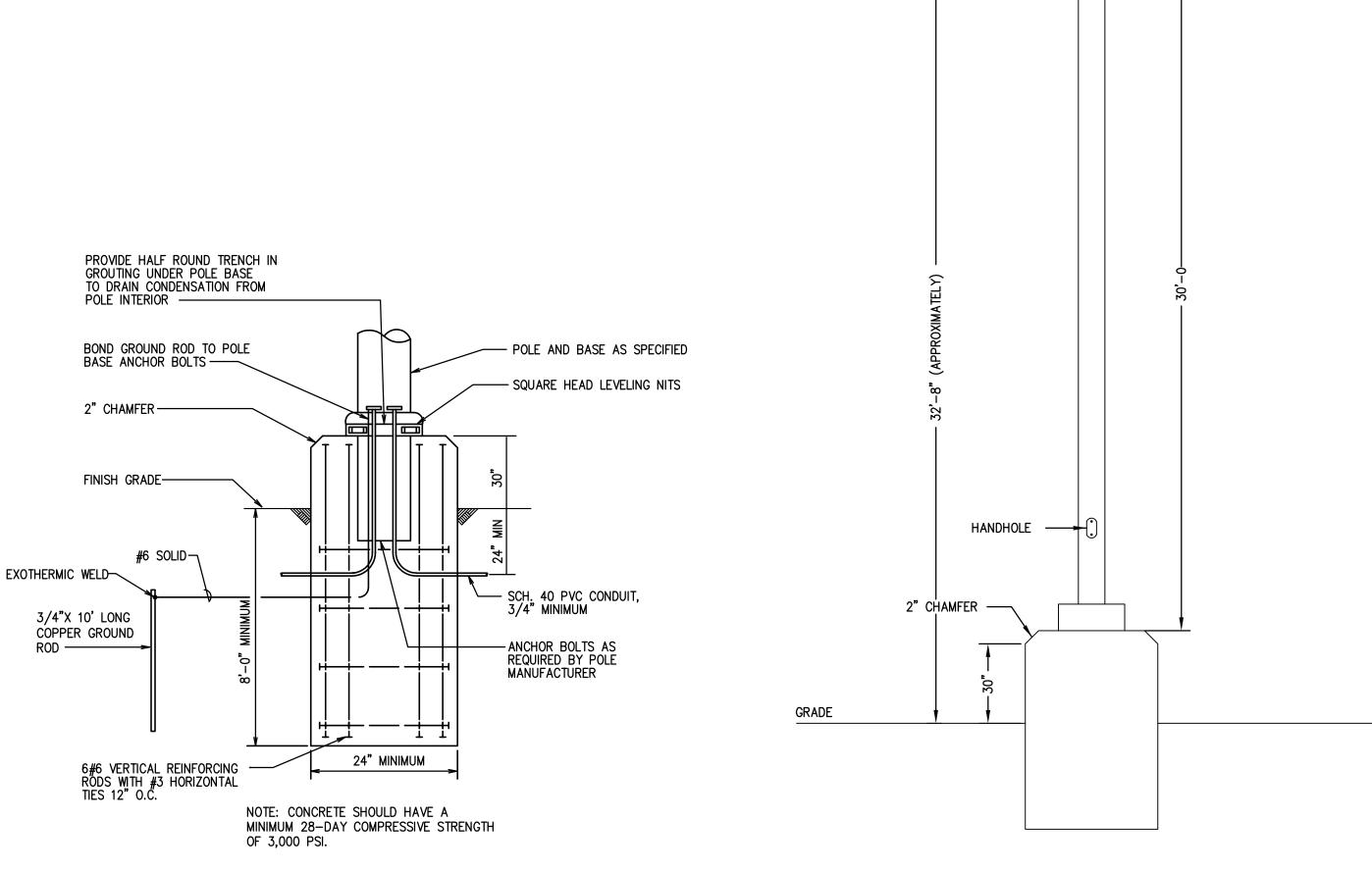
PARKING LOT LIGHT FIXTURES WILL BE CONTROLLED BY A WIRELESS NETWORK LIGHTING CONTROL SYSTEM.

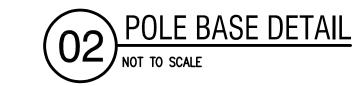
PARKING LOT LIGHT FIXTURES WILL BE TURNED 'ON 'WITH A CENTRAL PHOTOCELL, AND THE LIGHTING LEVEL WILL BE AUTOMATICALLY REDUCED AT MIDNIGHT BY 30%, UNTIL 6 AM, AT WHICH TIME THE LIGHTING MAY BE SCHEDULED TO TURN 'ON '. THE LIGHTING WILL REMAIN ON UNTIL TURNED 'OFF' AT DUSK BY

THERE IS MANUAL OVERRIDE SWITCH LOCATED IN EXISTING BUILDING FOR DISTRICT STAFF USE ONLY.

GENERAL NOTES:

- 1. CONTROLS CONTRACTOR TO COORDINATE SETUP OF SCHEDULE WITH OWNER.
- CONTRACTOR SHALL PROVIDE FACTORY AUTHORIZED FIELD STARTUP, PROGRAMMING AND TRAINING, AND INCLUDE AT LEAST ONE SERVICE CALL, FOR AFTERCARE.
- 3. INCLUDE 2 HOURS OF OWNERS TRAINING.
- 4. COORDINATE OBTAINING REQUIRED NETWORK DROP WITH OWNER AND THEIR TECHNOLOGY
- 5. FIELD VERIFY LOCATION OF CONTROLS COMPONENTS ON EACH SITE PRIOR TO INSTALLATION.

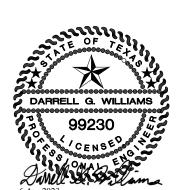






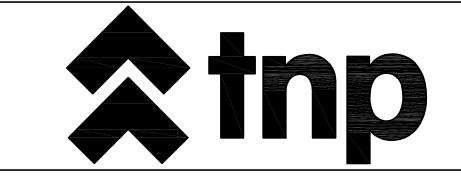


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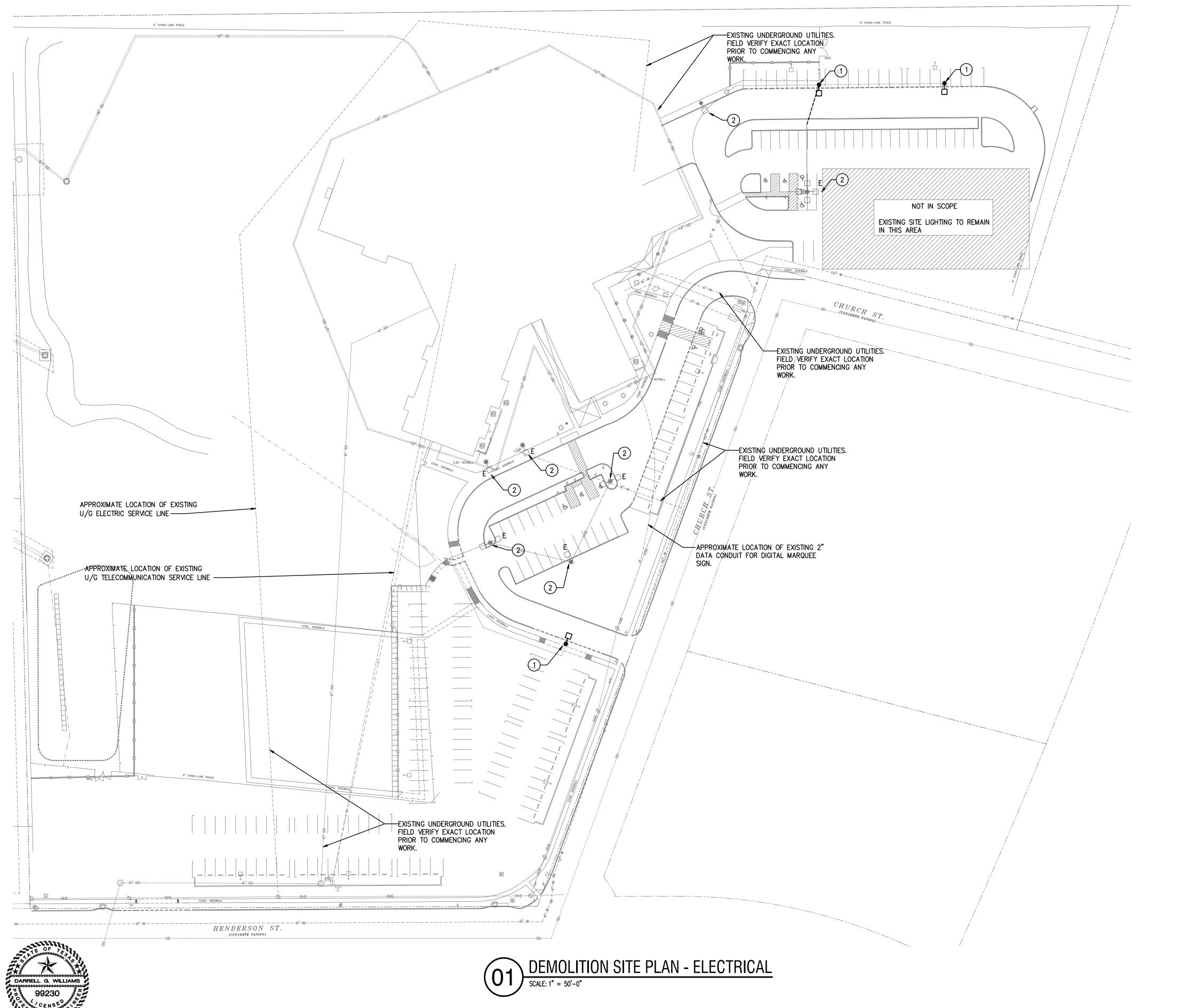
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Midlothian ISD
Parking Lot to Serve VITOVSKY ELEMENTARY

DETAILS & SCHEDULE

E0.01

MLT23062



GENERAL LIGHTING NOTES:

- 1. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES,
- 2. ALL WORK SHALL COMPLY WITH THE BUILDING OWNER'S CONSTRUCTION GUIDELINES.
- 3. ALL POLE BASES TO BE STAKED WITH OWNER FOR FINAL LOCATION.
- 4. PROVIDE NEW SOD TO MATCH EXISTING SOD AT ALL LOCATIONS WHERE CONDUIT IS TRENCHED. COMPACT EXCAVATED AREAS AFTER SOIL REPLACEMENT. THE CONTRACTOR SHALL WALK THE SITE AND MATCH EXISTING CONDITIONS INCLUDING SOD TYPE FOR ALL LANDSCAPE REPLACEMENT.
- 5. PATCH, REPAIR AND RETURN TO FUNCTIONAL STATUS ALL IRRIGATION PIPING AND CONTROL WIRING AFFECTED BY THIS PROJECT.
- 6. A NEW SITE LIGHTING CONTROL SYSTEM, TYPE EATON WAVELINX WIRELESS CONTROLS, SHALL BE PROVIDED FOR ALL NEW POLE MOUNTED LIGHTING FIXTURES AS PART OF THIS PROJECT. ALL LIGHTING CONTROLS WORK NECESSARY TO PROVIDE A FULLY FUNCTIONAL LIGHTING AND LIGHTING CONTROL SYSTEM INCLUDING BUT NOT LIMITED TO LIGHTING FIXTURES, LIGHT POLE BASES, NETWORK CONNECTIONS, WIRELESS WATERWAYS, WIRELESS ANTENNAS, WIRELESS NODES, WIRING AND PROGRAMMING SHALL BE PROVIDED UNDER THIS CONTRACT.
- 7. CONTRACTOR INCLUDE ALL COST FOR THE LOCATING, AND TRACING OF ALL EXISTING SITE LIGHTING CIRCUITS, INCLUDING IDENTIFICATION AND LABELING OF THE EXISTING CIRCUIT BREAKERS SERVING THESE FIXTURE, AND UPDATING PANEL SCHEDULES.
- 8. CONTRACTOR TO DISCONNECT THE EXISTING SITE LIGHTING CONTROLS, AND PREPARE FOR NEW WIRELESS LIGHTING CONTROLS. COORDINATE THE EXACT LOCATION OF THE NEW WIRELESS CONTROLS GATEWAY WITH OWNER, AND PROVIDE REQUIRED POWER FOR GATEWAY. COORDINATE CONNECTION OF GATEWAY TO THEIR NETWORK WITH MIDLOTHIAN ISD TECHNOLOGY.
- 9. ALL EXISTING UTILITIES TO BE FLAGGED AND MARKED PRIOR TO CONSTRUCTION. THESE FLAGS ARE TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION. ALL UTILITIES ARE TO REMAIN ACTIVE UNLESS NOTED OTHERWISE IN THESE CONSTRUCTION DOCUMENTS.
- 10. GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF CONFLICTS OCCUR BETWEEN LIGHTING AND ANY OTHER TRADE. DO NOT PROCEED WITH INSTALLATION IN THAT AREA UNTIL CONFLICT HAS BEEN RESOLVED TO THE SATISFACTION OF THE ENGINEER.
- 11. WHEN SPECIFIC LIGHT FIXTURE TYPE HAS BEEN SPECIFIED IN THE FIXTURE INFORMATION, ELECTRICAL CONTRACTOR SHALL PROVIDE COMPLETE ASSEMBLY INCLUSIVE OF ALL PARTS AND
- 12. WHERE CONDUCTOR SIZES ARE NOTED ON DRAWINGS, THAT WIRE SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS NOTED OTHERWISE.

NOTES BY SYMBOL 'O':

- 1) EXISTING SITE LIGHTING FIXTURE, POLE, AND WIRE SHALL BE REMOVED. REMOVE WIRE BACK TO SOURCE OF POWER.
- 2 EXISTING SITE LIGHTING FIXTURE TO REMAIN.

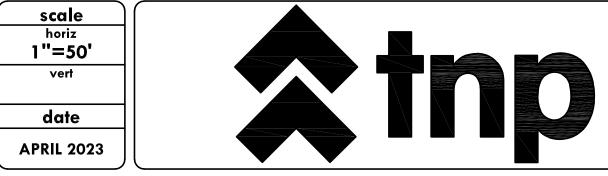
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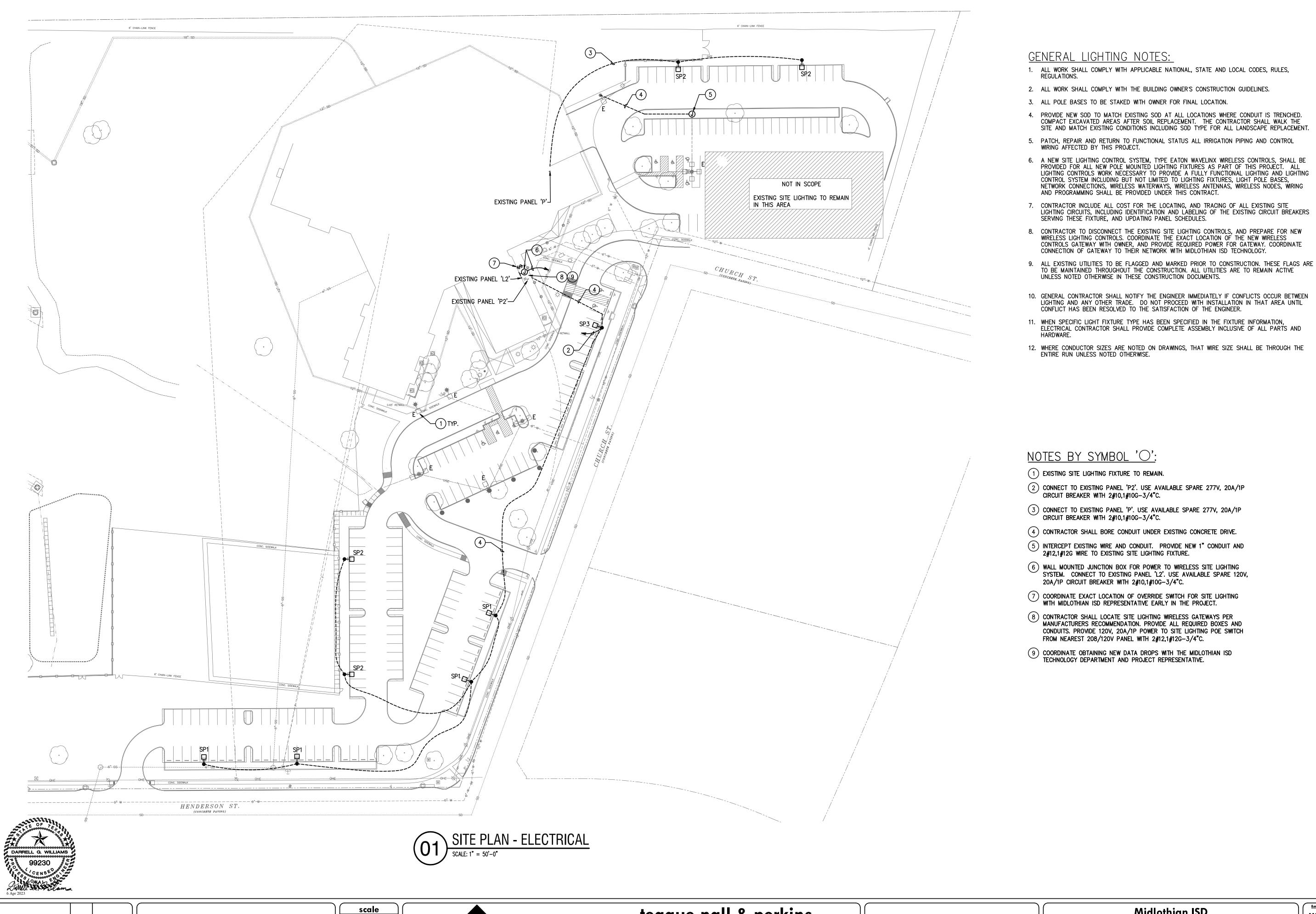
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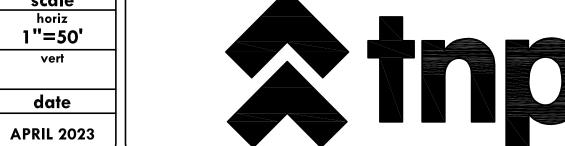
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SITE PLAN

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