CITY OF FOUNTAINS
HEART OF THE NATION
KANSAS CITY
MISSOURI

ADDENDUM NUMBER 3

Project Number **89008230**

Project Title **NW 72nd Street Improvements**
Federal STP-3451(401)

ISSUE DATE: **12/27/2018**

Bidders are hereby notified that the Bidding and Contract Documents for the above project, for which Bids are to be received on **January 8, 2019**, are amended as follows:

Information to Bidders The following is provided to Bidders for information only:

Q1.	Bid item #96, trench and Backfill, 223 cy. Can you explain how this calculation was made. If the contractor bores or plows the new lighting conduit will this item still be paid?
A1.	**The unit of measurement and payment has been changed to linear feet.**
Q2.	Is the 2" conduit on the south side to be relocated adjacent to the new 3" conduit to remain in service during the relocation
A2.	**The existing 2" conduit does not need to be relocated adjacent to the new 3" empty conduit. The location of any relocated portions of the 2" conduit will need to be coordinated with project requirements, existing utilities, and proposed improvements.**
Q3.	Does the 2" conduit to be relocated contain a tracer wire.
A3.	**Exact location and extents of tracer wire is unkown at this time.**
Q4.	Are there any pull boxes to be installed with the 3" conduit.
A4.	**Type II pull boxes are to be installed at no more than 1,000 feet apart. Contractor is to coordinate exact locations with the City prior to installation. New 3" conduit is to include tracer wire and pull rope.**
Q5.	Can you clarify the following sentence from the special Job Provisions: *No measurement or payment will be made for relocation of the existing 2" conduit which does is not necessary to construct the work"*
A5.	**The sentence is revised as follows:** ***No measurement or payment will be made for relocation of the existing 2" conduit which is not required to construct the work shown on the Plans.***
Q6.	Are there any asbuilt drawings available for the existing 2" conduit.
A6.	**There are no asbuilt drawings available.**

Q7.	Is the 2" fiber conduit to be relocated in place (elevation changes only) or is it to be relocated outside the proposed sidewalk and roadway.
A7.	**The location of any relocated portions of the 2" conduit will need to be coordinated with project requirements, existing utilities, and proposed improvements.**
Q8.	Does KCMO want the dowel baskets sized per KCMO standards? #4 dowel baskets for 10" pavement seems undersized for industry standards. Typically we install 1 ¼" dowel baskets for 10" pavement.
A8.	**Concrete pavement joints and reinforcement requirements shall follow KCMO standards on standard drawing J-1.**
Q9.	Are there any erosion control plans or erosion control bid items other than the sediment basins.
A9.	**No, there are no other erosion control plans or erosion control bid items other than the sediment basins.**
Q10.	Is a field office required.
A10.	**Yes, a field office is required.**
Q11.	Is there a maintenance bond or warranty period?
A11.	**As per the contract documents.**
Q12.	Is the asphalt indexed.
A12.	**No, the asphalt is not indexed.**
Q13.	Addendum # 2 appears to place the proposed waterline in the same footprint of the proposed 2" fiber conduit relocation and the 3" conduit for future use. Is there a detail showing the amount of separation between the new waterline and the conduit work.
A14.	**The plans do not show the extent or location of necessary relocations of the existing 2" conduit. There is no detail showing separation between the conduits and new water main. The Contractor is to locate the new 3" conduit and the 2" conduit to meet applicable City separation requirements.**

Bidding Requirements

1. Revise the proposed pavements markings to include on-street bike lanes and roundabout signing update as shown on Addendum #3 drawings. Updated sheets include quantity sheet, typical sections, plan and profile sheets, and signing and pavement marking sheets.
2. Remove details 10 and 11 on sheet 057 from the plan set.
3. Replace section 00412 Unit Prices in the Project Manual.
4. Add Variable Message Signs to list of Bid Item descriptions (JSP V) in the Project Manual.

Drawings:

1. Replace the following drawings:
   - 002, 005, 006, 007, 008, 009, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020, 057, 101, 102, 103.

NOTE: Bidders must acknowledge receipt of this Addendum by listing the number and date, where provided, on the Bid Form - Document 00410.

CITY OF FOUNTAINS
HEART OF THE NATION
KANSAS CITY
MISSOURI

UNIT PRICES

Project Number: 8900008230

Project Title: NW 72nd Street Improvements

NOTE: IN THE EVENT OF DISCREPANCY, UNIT PRICE SHALL GOVERN.

Item No.	Unit	Quantity	Item Description:	Unit	Extension
1	LS	1	Mobilization		
2	LS	1	Construction Staking		
3	AC	4.9	Clearing & Grubbing		
4	LS	1	Removal of Improvements		
5	CY	10185	Unclassified Excavation		
6	CY	10042	Embankment		
7	SY	11649	Type 5-01 Asphaltic Concrete Surface (2”)		
8	SY	11649	Type 1-01 Asphaltic Concrete Base (9”)		
9	SY	1774	Type 1-01 Asphaltic Concrete Base (5”)		
10	SY	201	Aspaltic Concrete Transition (9” +2”) Type 1-01 & 5-01		
11	SY	1535	Concrete Roundabout Pavement (10”)		
12	SY	294	Concrete Roundabout Apron (8” Colored, Stamped)		
13	SF	2511	Concrete Median (4” Colored, Stamped)		
14	SY	16760	Untreated Compacted Aggregate (6”)		
15	SY	17420	Subgrade Stabilization (9”, Fly Ash)		
16	LF	6205	Concrete Curb & Gutter (All Types)		
17	LF	258	3” Concrete Curb (Roundabout)		
18	LF	180	Concrete Straight Curb (Roundabout)		
19	LF	640	Concrete Doweled Curb		
20	SF	18762	Concrete Residential Drive (6”, MCIB WA610)		
21	SF	8627	Concrete Commercial Drive (8”, MCIB WA610)		
22	SF	513	Asphalt Commercial Drive (6” + 2”) Type 1-01 & 5-01		

23	SF	679	Asphalt Residential Drive (4”+2”) Type 1-01 & 5-01		
24	SF	1644	Asphalt Residential Drive (2” Overlay) Type 5-01		
25	SF	12725	4” Concrete Sidewalk		
26	SF	657	6” Concrete Sidewalk Ramp		
27	VSF	112	Small Block Retaining Wall		
28	VSF	2045	Large Block Retaining Wall		
29	EA	10	Curb Inlet C1-1 (5’x3’)		
30	EA	1	Curb Inlet C1-1 (5’x4’)		
31	EA	4	Curb Inlet C1-1 (8’x3’)		
32	EA	1	Curb Inlet C1-1 (11’x3’)		
33	EA	1	Storm Sewer Manhole MH-1 (5’ Diameter)		
34	EA	2	Junction Box JB-1 (4’x4’)		
35	EA	2	Junction Box JB-1 (4’x4’ Shallow)		
36	EA	1	Junction Box JB-1 (5’x5’)		
37	EA	2	Field Inlet (4’x4’)		
38	EA	3	Field Inlet (5’x5’)		
39	LF	767	15” RCP (Class III)		
40	LF	543	18” RCP (Class III)		
41	LF	402	24” RCP (Class III)		
42	LF	278	30” RCP (Class III)		
43	LF	335	36” RCP (Class III)		
44	LF	87	12” PVC Storm Sewer		
45	EA	1	12” RCP End Section		
46	EA	2	15” RCP End Section		
47	EA	1	18” RCP End Section		
48	EA	1	24” RCP End Section		
49	EA	1	36” RCP End Section		
50	EA	2	Connect to Existing Storm Sewer Structure		
51	SY	7	Rip-Rap (14”, Ungrouted)		
52	SY	33	Rip-Rap (22”, Ungrouted)		
53	SY	9	Turf Reinforcement Mat		

54	CY	2728	Temporary Sediment Basin		
55	M	8	Storm Sewer Trench Drain		
56	EA	2	Sanitary Sewer Manhole MH-1 (4’ Diameter)		
57	LF	47	8” PVC Sanitary Sewer		
58	LF	27	4” PVC Sanitary Sewer Service Line		
59	EA	9	Manhole Adjustment		
60	LF	253	Fencing (All Types)		
61	EA	2	Private Signage and Landscaping		
62	EA	2	Project Signs		
63	SF	628	Temporary Traffic Control Signage		
64	EA	30	Type III Barricade		
65	SF	166	Permanent Traffic Control Signage (Direct Screen)		
66	SF	67	Permanent Traffic Control Signage (Reverse Screen)		
67	LF	462	Permanent Traffic Control Sign Posts (Posts)		
68	LF	117	Permanent Traffic Control Sign Posts (Sleeve)		
69	LF	59	Permanent Traffic Control Sign Posts (Anchor)		
70	LF	6045	4” Yellow Lane Line		
71	LF	110	4" White Lane Line		
72	LF	3935	6” White Lane Line		
73	LF	125	12” Yellow Lane Line		
74	LF	44	12" White Lane Line		
75	LF	80	24" White Lane Line		
76	EA	17	Left Turn Arrow		
77	EA	4	Sharrow Symbol		
78	EA	9	Bicycle Lane Symbol		
79	EA	3	Roundabout Symbol		
80	EA	21	Type “A” 130 Watt LED Light Fixture		
81	EA	21	Type “A” Pole (35’-0”)		
82	EA	21	Type “A” Arm (6’-0”)		
83	LF	2250	1 #10 RHW/USE Internal Pole Wire		
84	LF	900	2 #6 RHH/RHW/USE, 1 #6 CU GND, 2” CID		

85	LF	1900	2 #8 RHH/RHW/USE, 1 #8 CU GND, 2” CID		
86	LF	200	3” HDPE Conduit for KCP&L Feed		
87	LF	200	1 #6 AWG Bare Copper Wire		
88	EA	2	4 Circuit Lighting Controller		
89	EA	2	Ground Rod		
90	EA	42	Fuse Kits		
91	EA	21	Non-Fused Fuse Kites		
92	EA	21	Cable Retainers		
93	EA	21	Screw In Light Pole Base		
94	EA	23	ID Tag		
95	EA	2	Concrete Foundations for Lighting Controller		
96	EA	2	KCP&L Service		
97	LF	3000	Trench and Backfill		
98	EA	16	Luminaire and Arm Removal		
99	EA	2	Power Hookups for KCP&L Power Sources		
100	EA	3	State Street Maple		
101	EA	6	Crimson Sunset Maple		
102	EA	3	American Hophornbeam		
103	EA	3	Swamp White Oak		
104	EA	12	Shawnee Brave Bald Cypress		
105	EA	3	Eastern Red Cedar		
106	EA	13	Canaerti Juniper		
107	EA	2	Colorado Spruce		
108	EA	10	Shrubs TBD by Homeowner		
109	EA	258	Sideoats Grama		
110	EA	311	Walkers Low Catmint		
111	SY	16272	Turf Sod		
112	LF	191	Steel Edging		
113	EA	27	Tree Watering Bags		
114	CY	2148	Topsoil (6” Depth)		
115	LF	2314	12” Class 52 DIP		

116	LF	104	8” Class 52 DIP		
117	LF	72	6” Class 52 DIP		
118	LF	7	1 1/2” Type K Copper		
119	LF	49	1” Type K Copper		
120	LF	190	3/4” Type K Copper		
121	LF	212	3/4” Type G Copper		
122	EA	5	5” KC-1 Spec Hydrant Type A		
123	EA	6	12” Gate Valve		
124	EA	1	8” Gate Valve		
125	EA	8	6” Gate Valve		
126	EA	1	12”x8” Tee		
127	EA	8	12”x6” Tee		
128	EA	1	12” 90° Bend		
129	EA	6	12” 45° Bend		
130	EA	4	12” 22.5° Bend		
131	EA	2	8” 22.5° Bend		
132	EA	5	6” 90° Bend		
133	EA	4	6” 45° Bend		
134	EA	2	12”x8” Reducer		
135	EA	2	12”x2” Tapped Plug		
136	EA	1	6”x2” Tapped Plug		
137	EA	1	12” Solid Sleeve		
138	EA	3	8” Solid Sleeve		
139	EA	3	6” Solid Sleeve		
140	EA	11	Straddle Block		
141	EA	1	1” Service Tap		
142	EA	9	3/4" Service Tap		
143	EA	10	Curb Stop		
144	EA	8	3/4” Meter & Pit		
145	EA	1	1 1/2" Dielectric Coupling		
146	EA	3	2” Galvanized Pipe (Flushing Assembly)		

147	EA	1	12” Air Release Valve with Vault		
148	EA	1	Adjust Grade of Air Release Valve Cover		
149	LF	2600	Relocate KCMO Fiber		
150	EA	2	Variable Message Signs		
			Total Unit Prices: (LAST PAGE ONLY)		TOTAL $

Note: May be printed, for manual fill-in, or filled in on electronic excel spreadsheet version.

GENERAL NOTES:

1. THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE CURRENT "CITY STANDARDS" AND SPECIFICATIONS OF THE PUBLIC WORKS DEPARTMENT, KANSAS CITY, MISSOURI, EXCEPT AS NOTED.
2. THIS PROJECT WAS BASED ON BOUNDARY AND TOPOGRAPHIC SURVEY PROVIDED BY THE CITY OF KANSAS CITY, MISSOURI AND SCHMITZ, KING & ASSOCIATES.
3. ALL MANHOLES, CATCH BASINS, UTILITY VALVES, AND METER PITS SHALL BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED.
4. ASPHALTIC CONCRETE SURFACE COURSE SHALL CONTAIN ONLY VIRGIN MATERIALS. BASE COURSE MAY CONTAIN RECYCLED CONTENT.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL DOWNSTREAM EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION. EROSION CONTROL SYSTEMS AND PROCEDURES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATIONS.
6. PRIOR TO ORDERING PRE-CAST STRUCTURES, SHOP DRAWINGS ARE TO BE SUBMITTED TO THE DESIGN ENGINEER FOR APPROVAL.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING ROCK ELEVATIONS AT 25 FOOT (MAXIMUM) INTERVALS WHERE ENCOUNTERED, AND FURNISHING THIS INFORMATION TO THE DESIGN ENGINEER FOR USE ON "AS-BUILT" PLANS.
8. THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES.
9. SUBSURFACE EXPLORATION FOR THE DETERMINATION OF AND/OR THE LOCATION OF EXISTING ROCK HAS BEEN MADE AND IS INCLUDED IN THE PROJECT SPECIFICATIONS.
10. THE CITY OF KANSAS CITY, MISSOURI SHALL PROVIDE EARTHWORK AND MATERIAL TESTING SERVICES.
11. UTILITIES CROSSING PUBLIC STREETS SHALL CONFORM TO THE FLOWABLE FILL REQUIREMENTS AS PER THE REVISED STANDARD SPECIFICATIONS SECTION 2602.2I; WITH SUPPLEMENT.
12. CONSTRUCTION STAKING SHALL BE PROVIDED BY THE CONTRACTOR AS OUTLINED IN THE SPECIFICATIONS.
13. CONTRACTOR SHALL CONTACT AND COORDINATE WITH APPROPRIATE UTILITY COMPANY FOR REMOVALS OR RELOCATIONS OF UNDERGROUND MAINS, UNDERGROUND SERVICE LINES AND ABOVE GROUND UTILITY APPURTENANCES (SUCH AS POWER POLES) SEEN OR UNSEEN WITHIN THE GRADING LIMITS THAT ARE IN CONFLICT WITH PROPOSED CONSTRUCTION.
14. ALL EXISTING ROADWAY SURFACES WITHIN THE GRADING LIMITS ARE TO BE REMOVED UNLESS INDICATED OTHERWISE.
15. ALL EXISTING STORM SEWER PIPE AND STRUCTURES SEEN OR UNSEEN WITHIN THE GRADING LIMITS SHALL BE REMOVED UNLESS INDICATED ON PLANS TO REMAIN.
16. ALL EXISTING DRIVEWAYS WITHIN THE GRADING LIMITS ARE TO BE REMOVED AND REPLACED AS INDICATED ON THE PLANS.
17. ALL EXISTING SIDEWALKS WITHIN THE GRADING LIMITS ARE TO BE REMOVED UNLESS INDICATED ON THE PLANS TO REMAIN IN PLACE.
18. ALL LANDSCAPING, INCLUDING SHRUBS, WITHIN THE GRADING LIMITS SHALL BE REMOVED AS NECESSARY FOR PROPOSED CONSTRUCTION UNLESS INDICATED ON THE PLANS TO LEAVE IN PLACE. SALVAGE ITEMS TO PROPERTY OWNERS AS REQUESTED.
19. SAWCUT EXISTING PAVEMENT, INCLUDING SIDEWALKS, FULL DEPTH WHERE IT MEETS NEW PAVEMENT.
20. CONTRACTOR SHALL RESET ALL PROPERTY SURVEY MONUMENTS, INCLUDING PROPERTY CORNERS, SECTION CORNERS, AND KCMO BENCHMARKS, DESTROYED OR REMOVED DUE TO CONSTRUCTION.
21. EXISTING WATER SERVICE LINES AND WATER MAINS WITHIN THE PROJECT ARE TO BE REPLACED. REFER TO SEPARATE PLAN SET TITLED "WATER MAIN REPLACEMENT ALONG NW 72ND STREET FROM I-29 TO N OVERLAND DRIVE" FOR NEW WATER MAIN AND WATER SERVICE DESIGN INFORMATION.
22. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETING THE REMAINING PORTIONS OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR WHICH HE IS RESPONSIBLE PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND UPDATING THE SWPPP AS REQUIRED BY FEDERAL, STATE, AND CITY REGULATIONS. REFER TO PROJECT SPECIFICATION SECTION 01563 FOR ADDITIONAL INFORMATION.
23. ANY CONTRACTOR HAULING DEBRIS SHALL OBTAIN A HAULING PERMIT FROM THE PUBLIC WORKS DEPARTMENT, 816-513-2670, BY MAKING APPLICATION FIVE DAYS IN ADVANCE.
24. IN THE EVENT OF CONFLICTS OR DISCREPANCIES AMONG THE SPECIFICATIONS, INTERPRETATIONS WILL BE BASED ON THE FOLLOWING ORDER: APWA-KCMO, MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2017 EDITION), AND THEN MISSOURI STANDARD PLANS FOR HIGHWAY CONSTRUCTION (2017 EDITION).

SUMMARY OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	APPROXIMATE QUANTITY	UNIT
1	Mobilization	1	LS
2	Construction Staking	1	LS
3	Clearing & Grubbing	4.9	AC
4	Removal of Improvements	1	LS
5	Unclassified Excavation	10185	CY
6	Embankment	10042	CY
7	Type 5-01 Asphaltic Concrete Surface (2")	11649	SY
8	Type 1-01 Asphaltic Concrete Base (9")	11649	SY
9	Type 1-01 Asphaltic Concrete Base (5")	1774	SY
10	Aspaltic Concrete Transition (9" +2") Type 1-01 & 5-01	201	SY
11	Concrete Roundabout Pavement (10")	1535	SY
12	Concrete Roundabout Apron (8" Colored, Stamped)	294	SY
13	Concrete Median (4" Colored, Stamped)	2511	SF
14	Untreated Compacted Aggregate (6")	16760	SY
15	Subgrade Stabilization (9", Fly Ash)	17420	SY
16	Concrete Curb & Gutter (All Types)	6205	LF
17	3" Concrete Curb (Roundabout)	258	LF
18	Concrete Straight Curb (Roundabout)	180	LF
19	Concrete Doweled Curb	640	LF
20	Concrete Residential Drive (6", MCIB WA610)	18762	SF
21	Concrete Commercial Drive (8", MCIB WA610)	8627	SF
22	Asphalt Commercial Drive (6" + 2") Type 1-01 & 5-01	513	SF
23	Asphalt Residential Drive (4"+2") Type 1-01 & 5-01	679	SF
24	Asphalt Residential Drive (2" Overlay) Type 5-01	1644	SF
25	4" Concrete Sidewalk	12725	SF
26	6" Concrete Sidewalk Ramp	657	SF
27	Small Block Retaining Wall	112	VSF
28	Large Block Retaining Wall	2045	VSF
29	Curb Inlet C1-1 (5'x3')	10	EA
30	Curb Inlet C1-1 (5'x4')	1	EA
31	Curb Inlet C1-1 (8'x3')	4	EA
32	Curb Inlet C1-1 (11'x3')	1	EA
33	Storm Sewer Manhole MH-1 (5' Diameter)	1	EA
34	Junction Box JB-1 (4'x4')	2	EA
35	Junction Box JB-1 (4'x4' Shallow)	2	EA
36	Junction Box JB-1 (5'x5')	1	EA
37	Field Inlet (4'x4')	2	EA
38	Field Inlet (5'x5')	3	EA
39	15" RCP (Class III)	767	LF
40	18" RCP (Class III)	543	LF
41	24" RCP (Class III)	402	LF
42	30" RCP (Class III)	278	LF
43	36" RCP (Class III)	335	LF
44	12" PVC Storm Sewer	87	LF
45	12" RCP End Section	1	EA
46	15" RCP End Section	2	EA
47	18" RCP End Section	1	EA
48	24" RCP End Section	1	EA
49	36" RCP End Section	1	EA
50	Connect to Existing Storm Sewer Structure	2	EA
51	Rip-Rap (14", Ungrouted)	7	SY
52	Rip-Rap (22", Ungrouted)	33	SY
53	Turf Reinforcement Mat	9	SY
54	Temporary Sediment Basin	2728	CY
55	Storm Sewer Trench Drain	8	M
56	Sanitary Sewer Manhole MH-1 (4' Diameter)	2	EA
57	8" PVC Sanitary Sewer	47	LF
58	4" PVC Sanitary Sewer Service Line	27	LF
59	Manhole Adjustment	9	EA
60	Fencing (All Types)	253	LF
61	Private Signage and Landscaping	2	EA
62	Project Signs	2	EA
63	Temporary Traffic Control Signage	628	SF
64	Type III Barricade	30	EA
65	Permanent Traffic Control Signage (Direct Screen)	166	SF
66	Permanent Traffic Control Signage (Reverse Screen)	67	SF
67	Permanent Traffic Control Sign Posts (Posts)	462	LF
68	Permanent Traffic Control Sign Posts (Sleeve)	117	LF
69	Permanent Traffic Control Sign Posts (Anchor)	59	LF
70	4" Yellow Lane Line	6045	LF
71	4" White Lane Line	110	LF
72	6" White Lane Line	3935	LF
73	12" Yellow Lane Line	125	LF
74	12" White Lane Line	44	LF
75	24" White Lane Line	80	LF

SUMMARY OF QUANTITIES (CONT.)

ITEM NO.	ITEM DESCRIPTION	APPROXIMATE QUANTITY	UNIT
76	Left Turn Arrow	17	EA
77	Sharrow Symbol	4	EA
78	Bicycle Lane Symbol	9	EA
79	Roundabout Symbol	3	EA
80	Type "A" 130 Watt LED Light Fixture	21	EA
81	Type "A" Pole (35'-0")	21	EA
82	Type "A" Arm (6'-0")	21	EA
83	1 #10 RHW/USE Internal Pole Wire	2250	LF
84	2 #6 RHH/RHW/USE, 1 #6 CU GND, 2" CID	900	LF
85	2 #8 RHH/RHW/USE, 1 #8 CU GND, 2" CID	1900	LF
86	3" HDPE Conduit for KCP&L Feed	200	LF
87	1 #6 AWG Bare Copper Wire	200	LF
88	4 Circuit Lighting Controller	2	EA
89	Ground Rod	2	EA
90	Fuse Kits	42	EA
91	Non-Fused Fuse Kites	21	EA
92	Cable Retainers	21	EA
93	Screw In Light Pole Base	21	EA
94	ID Tag	23	EA
95	Concrete Foundations for Lighting Controller	2	EA
96	KCP&L Service	2	EA
97	Trench and Backfill	3000	LF
98	Luminaire and Arm Removal	16	EA
99	Power Hookups for KCP&L Power Sources	2	EA
100	State Street Maple	3	EA
101	Crimson Sunset Maple	6	EA
102	American Hophornbeam	3	EA
103	Swamp White Oak	3	EA
104	Shawnee Brave Bald Cypress	12	EA
105	Eastern Red Cedar	3	EA
106	Canaerti Juniper	13	EA
107	Colorado Spruce	2	EA
108	Shrubs TBD by Homeowner	10	EA
109	Sideoats Grama	258	EA
110	Walkers Low Catmint	311	EA
111	Turf Sod	16272	SY
112	Steel Edging	191	LF
113	Tree Watering Bags	27	EA
114	Topsoil (6" Depth)	2148	CY
115	12" Class 52 DIP	2314	LF
116	8" Class 52 DIP	104	LF
117	6" Class 52 DIP	72	LF
118	1 1/2" Type K Copper	7	LF
119	1" Type K Copper	49	LF
120	3/4" Type K Copper	190	LF
121	3/4" Type G Copper	212	LF
122	5" KC-1 Spec Hydrant Type A	5	EA
123	12" Gate Valve	6	EA
124	8" Gate Valve	1	EA
125	6" Gate Valve	8	EA
126	12"x8" Tee	1	EA
127	12"x6" Tee	8	EA
128	12" 90° Bend	1	EA
129	12" 45° Bend	6	EA
130	12" 22.5° Bend	4	EA
131	8" 22.5° Bend	2	EA
132	6" 90° Bend	5	EA
133	6" 45° Bend	4	EA
134	12"x8" Reducer	2	EA
135	12"x2" Tapped Plug	2	EA
136	6"x2" Tapped Plug	1	EA
137	12" Solid Sleeve	1	EA
138	8" Solid Sleeve	3	EA
139	6" Solid Sleeve	3	EA
140	Straddle Block	11	EA
141	1" Service Tap	1	EA
142	3/4" Service Tap	9	EA
143	Curb Stop	10	EA
144	3/4" Meter & Pit	8	EA
145	1 1/2" Dielectric Coupling	1	EA
146	2" Galvanized Pipe (Flushing Assembly)	3	EA
147	12" Air Release Valve with Vault	1	EA
148	Adjust Grade of Air Release Valve Cover	1	EA
149	Relocate KCMO Fiber	2600	LF
150	Variable Message Signs	2	EA

WALTER P MOORE

MO PE Corporation No. 1999141112

WALTER P. MOORE AND ASSOCIATES, INC.
920 MAIN STREET, TENTH FLOOR
KANSAS CITY, MISSOURI 64105.2008

PHONE: 816.701.2100 FAX: 816.701.2200

IN ASSOCIATION WITH

PROJECT NAME

CITY OF KANSAS CITY, MISSOURI
CITY PROJECT # 89008230
FEDERAL PROJECT # STP-3451(401)
NW 72ND STREET IMPROVEMENTS

STATE OF MISSOURI
MICHAEL JOSEPH HAAKE
NUMBER PE-2014007265
PROFESSIONAL ENGINEER
6/22/2018

NO.	DATE	SUBMITTALS
1	12/21/2018	ADDENDUM NO. 3

DESIGNED BY M.J.H.
REVIEWED BY D.L.B.
DRAWN BY D.M.B.
PROJECT NUMBER C08-13003-00
DATE 22 JUNE 2018
SHEET TITLE

GENERAL NOTES & SUMMARY OF QUANTITIES

SHEET NUMBER

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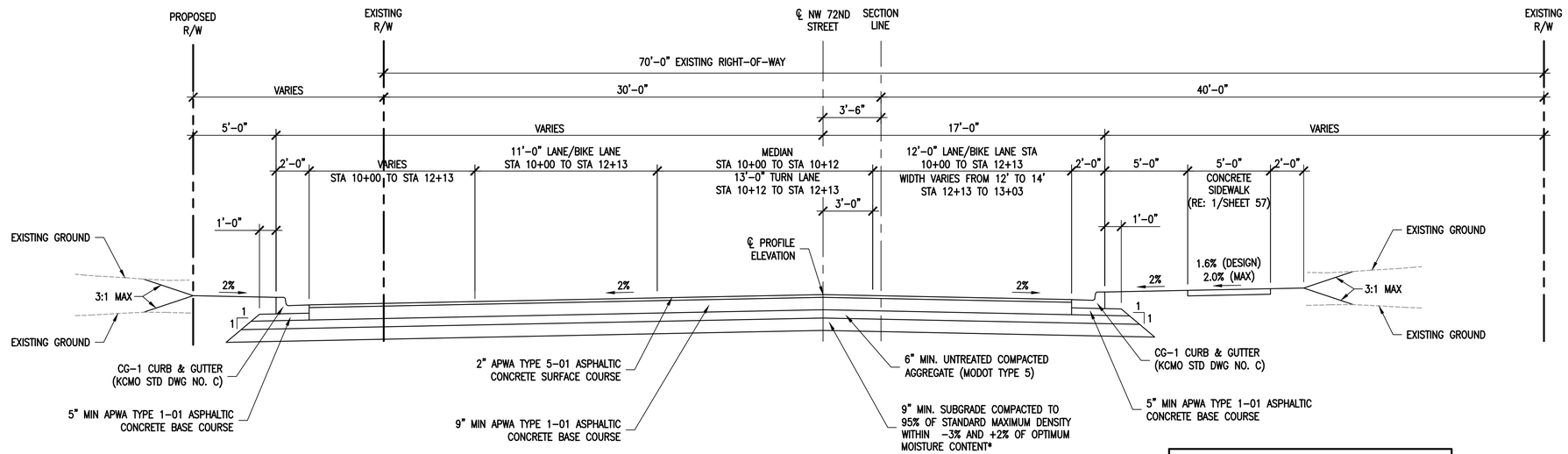


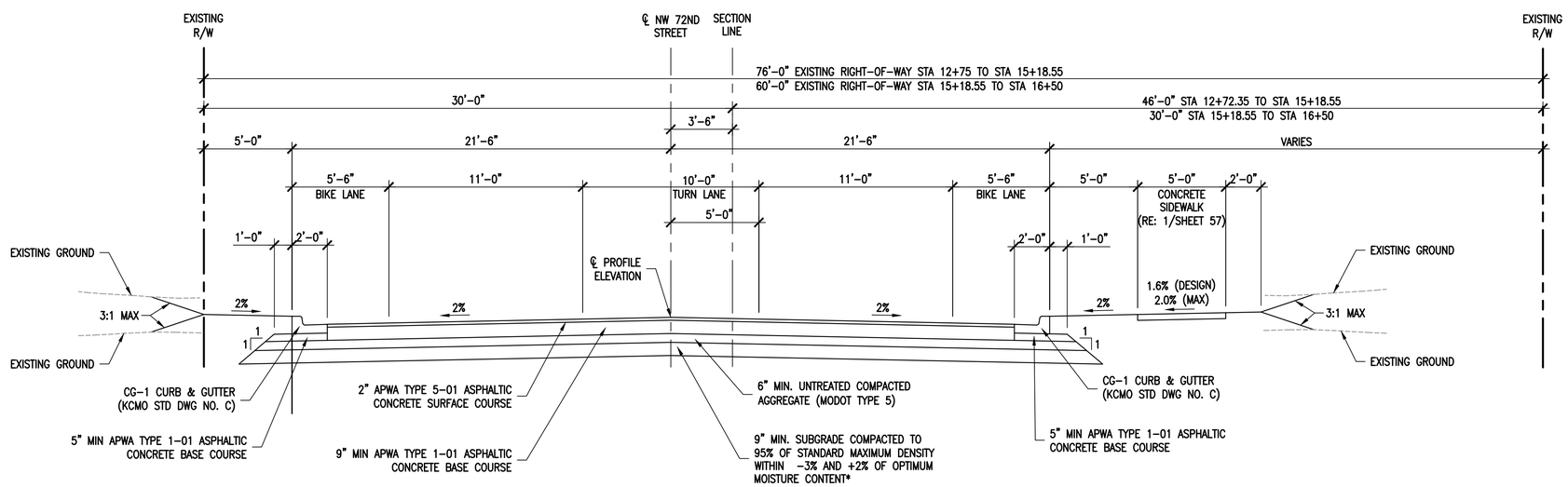
TYPICAL SECTION
STA 10+00 ~ STA 12+75

1

1/4" = 1'-0"

NOTES:

1. REFER TO SHEET 11 FOR NEW WORK WEST OF STA. 10+00 ALONG NORTH SIDE ROADWAY.
2. REFER TO SHEET 11 FOR LAYOUT OF NEW WORK WEST OF STA 10+80.04 ALONG SOUTH SIDE OF ROADWAY.



TYPICAL SECTION
STA 12+75 ~ STA 16+50

2

1/4" = 1'-0"

SUBGRADE NOTE

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WALTER P MOORE

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920 MAIN STREET, TENTH FLOOR
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PHONE: 816.701.2100 FAX: 816.701.2200

IN ASSOCIATION WITH

PROJECT NAME

CITY OF KANSAS CITY, MISSOURI
CITY PROJECT # 89008230
FEDERAL PROJECT # STP-3451(401)
NW 72ND STREET IMPROVEMENTS

STATE OF MISSOURI
MICHAEL JOSEPH HAAKE
NUMBER PE-2014007266
PROFESSIONAL ENGINEER
6/22/2018

NO.	DATE	SUBMITTALS
1	12/21/2018	ADDENDUM NO. 3

DESIGNED BY M.J.H.
REVIEWED BY D.L.B.
DRAWN BY D.M.B.
PROJECT NUMBER C08-13003-00
DATE 22 JUNE 2018
SHEET TITLE

TYPICAL SECTIONS

SHEET NUMBER

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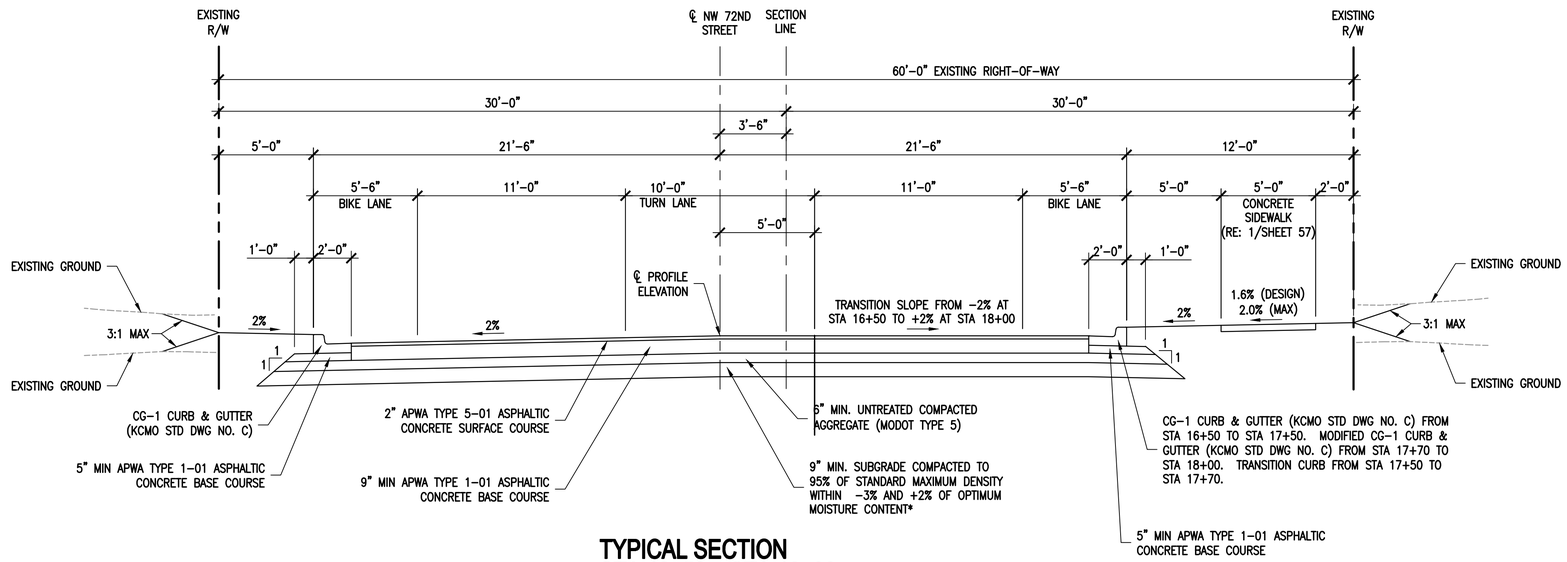
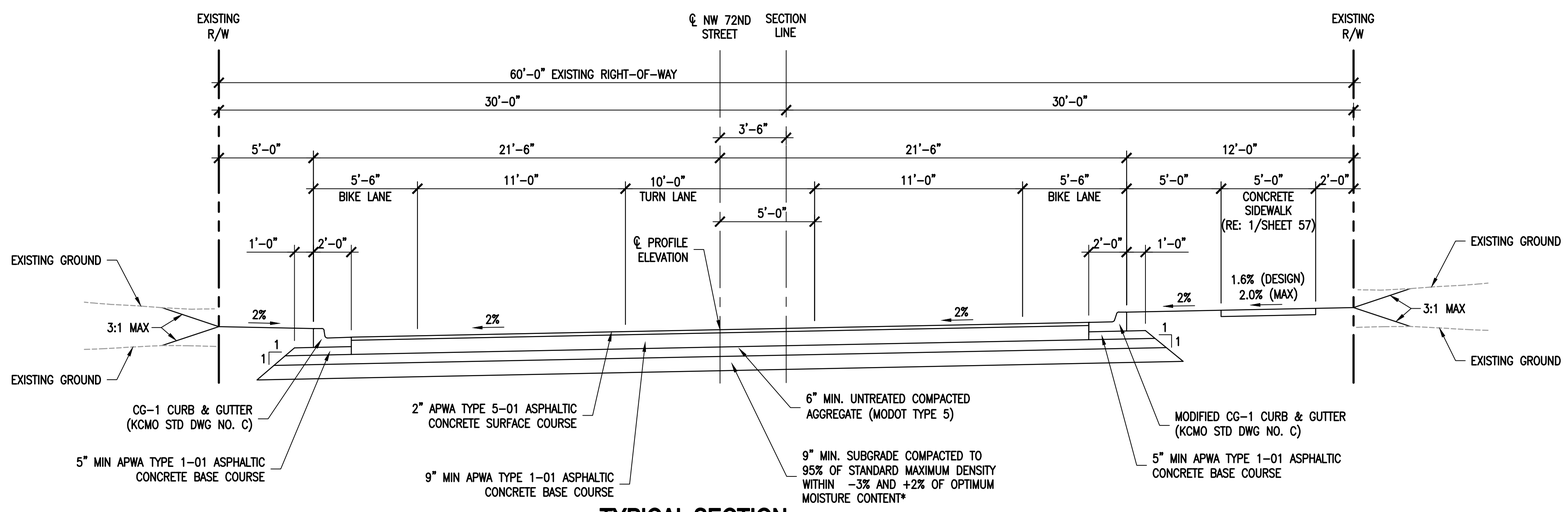


1 TYPICAL SECTION STA 16+50 ~ STA 18+00

1/4" = 1'-0"



2 TYPICAL SECTION STA 18+00 ~ STA 20+75 STA 22+00 ~ STA 22+50

1/4" = 1'-0"

SUBGRADE NOTE

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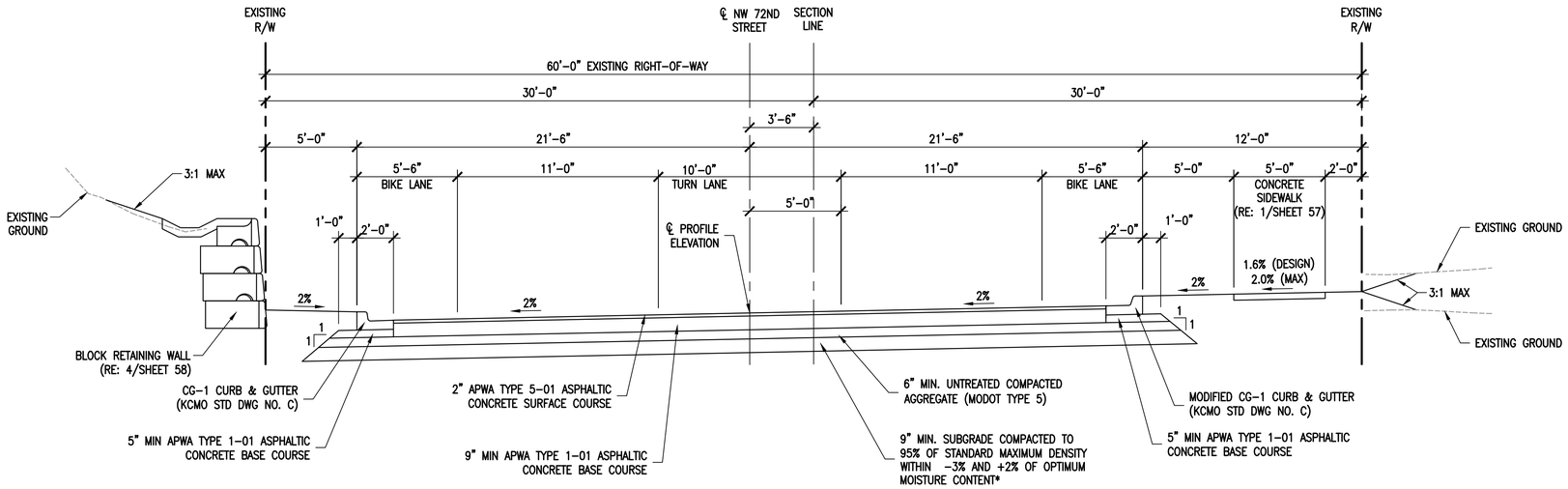
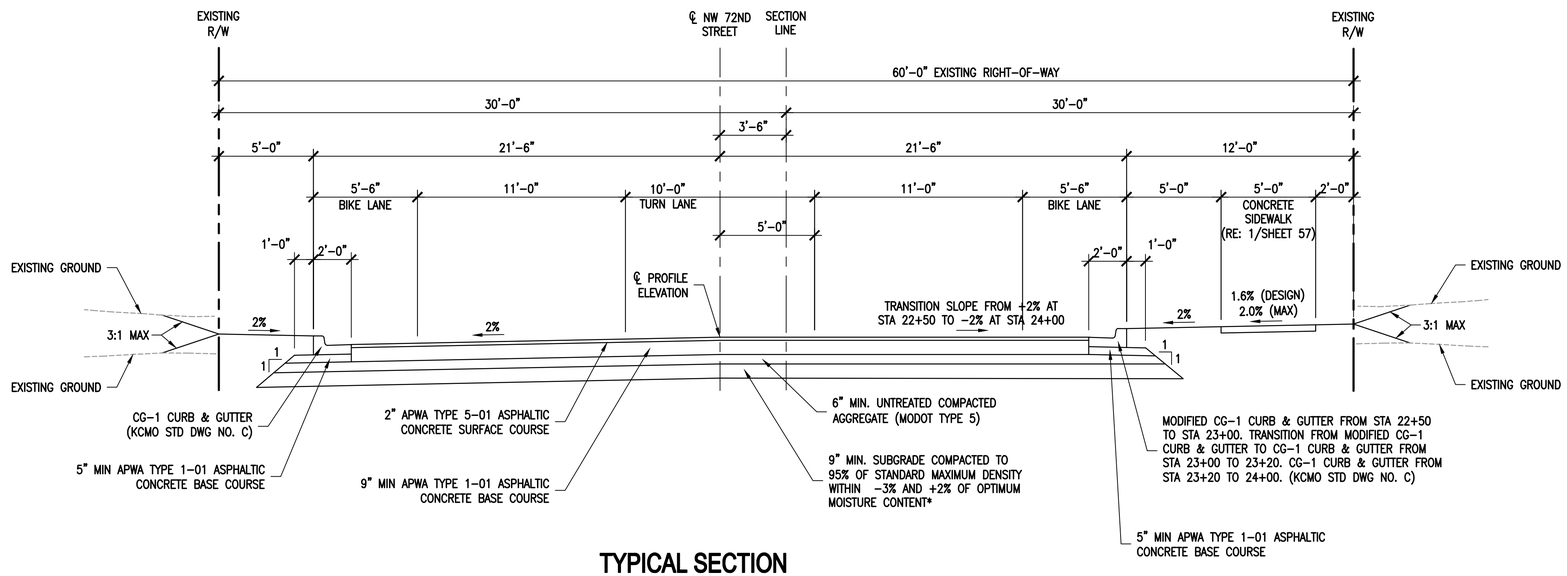


1 TYPICAL SECTION STA 20+75 ~ STA 22+00

1/4" = 1'-0"



2 TYPICAL SECTION STA 22+50 ~ STA 24+00

1/4" = 1'-0"

SUBGRADE NOTE

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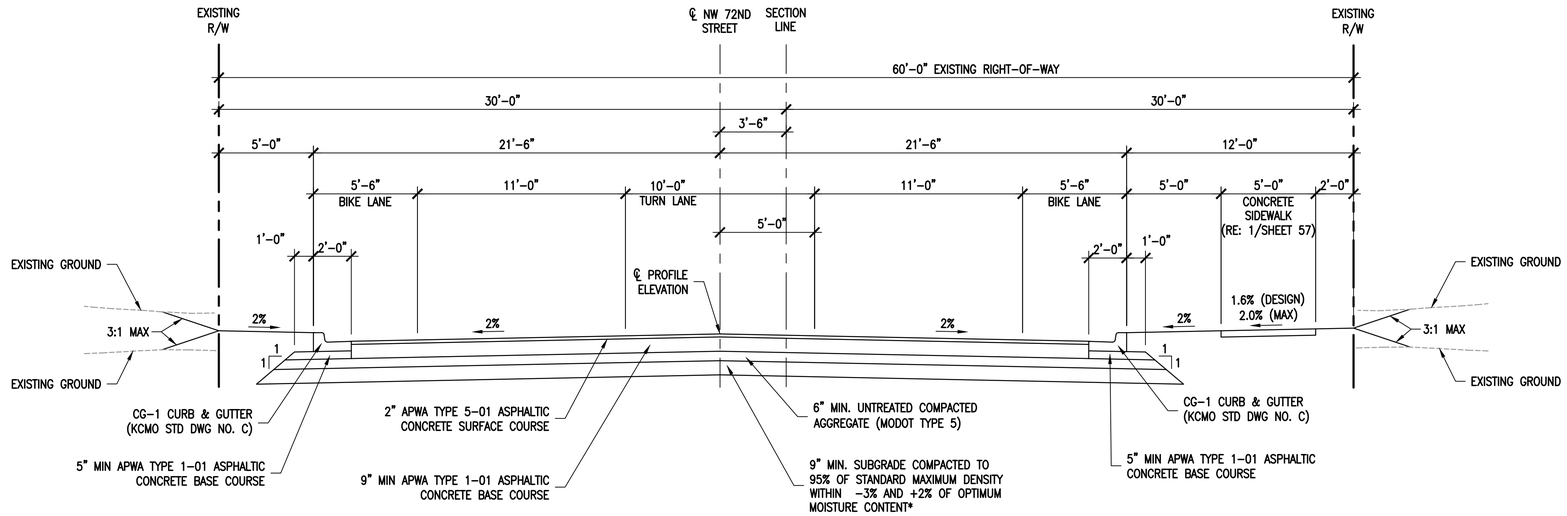
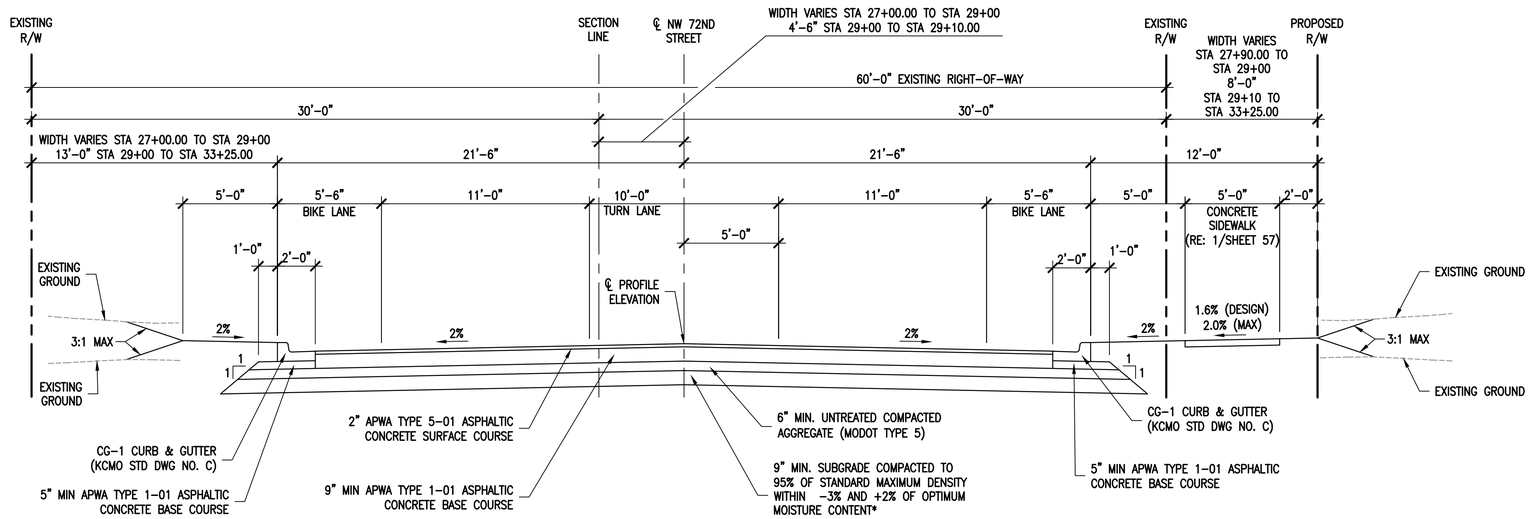


1 TYPICAL SECTION STA 24+00 ~ STA 27+00

1/4" = 1'-0"



2 TYPICAL SECTION STA 27+00 ~ STA 27+90 STA 29+10 ~ STA 33+25

1/4" = 1'-0"

NOTE:

1. NO TYPICAL SECTION FROM STA 33+25.00 TO STA 36+50.00 DUE TO PROPOSED ROUNDABOUT, REFER TO N. OVERLAND ROUNDABOUT PLAN SHEET FOR LAYOUT INFORMATION.

SUBGRADE NOTE

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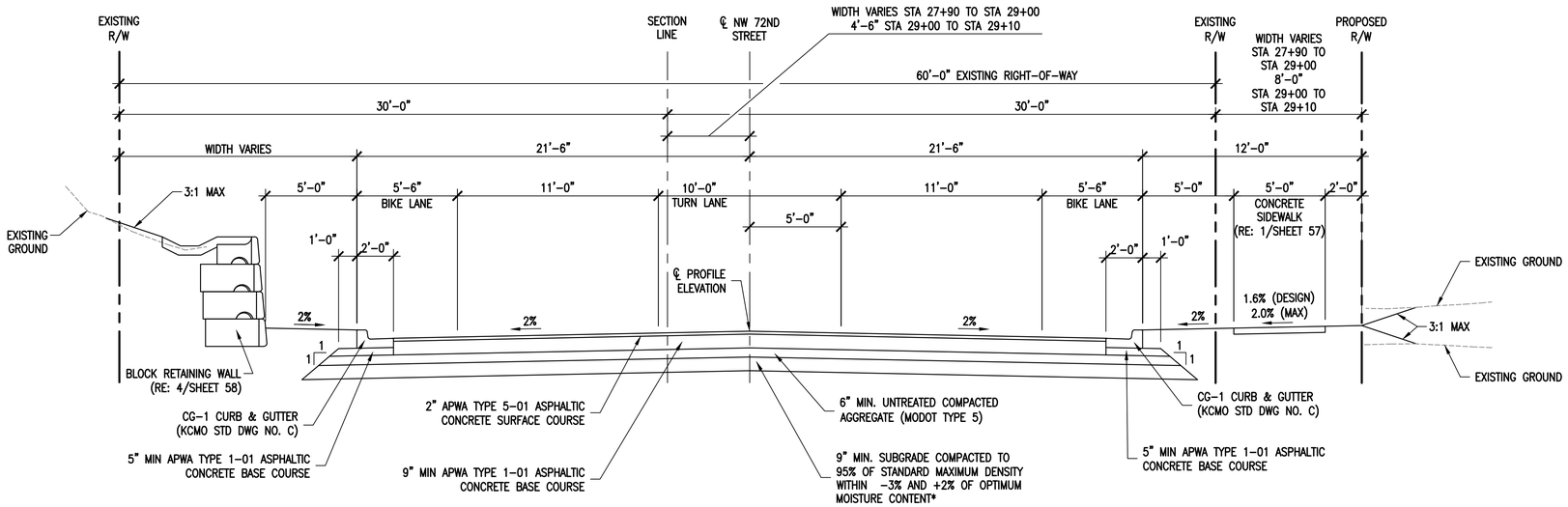
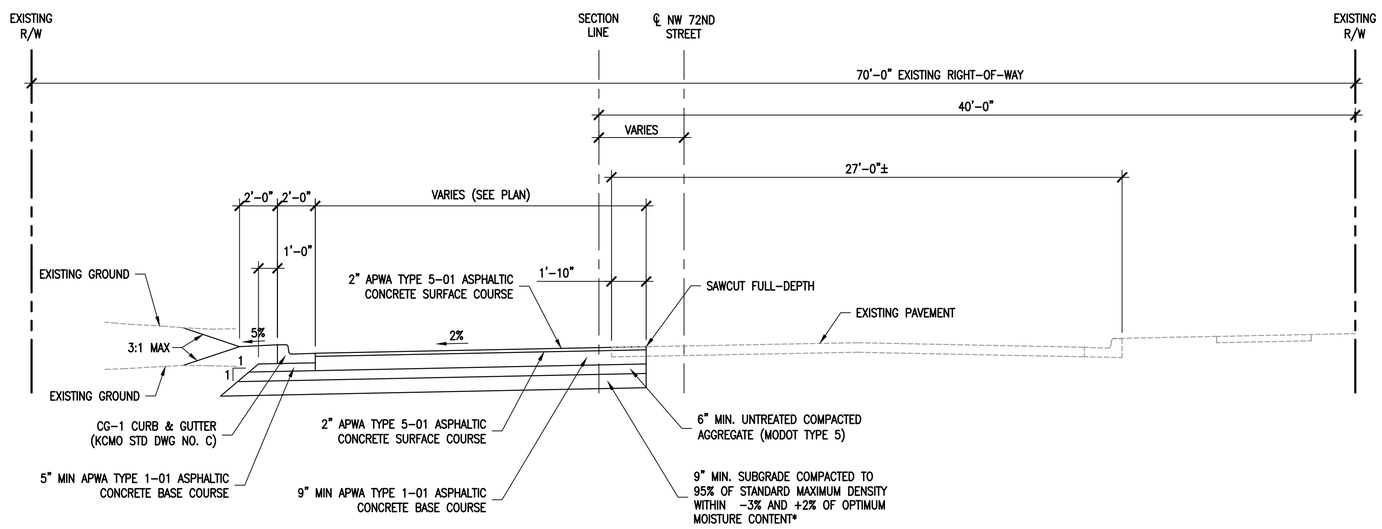


1 TYPICAL SECTION STA 27+90 ~ STA 29+10

1/4" = 1'-0"



2 TYPICAL SECTION STA 36+50 ~ STA 38+45.78

1/4" = 1'-0"

NOTE:

1. NO TYPICAL SECTION FROM STA 33+25.00 TO STA 36+50.00 DUE TO PROPOSED ROUNDABOUT, REFER TO N. OVERLAND ROUNDABOUT PLAN SHEET FOR LAYOUT INFORMATION.

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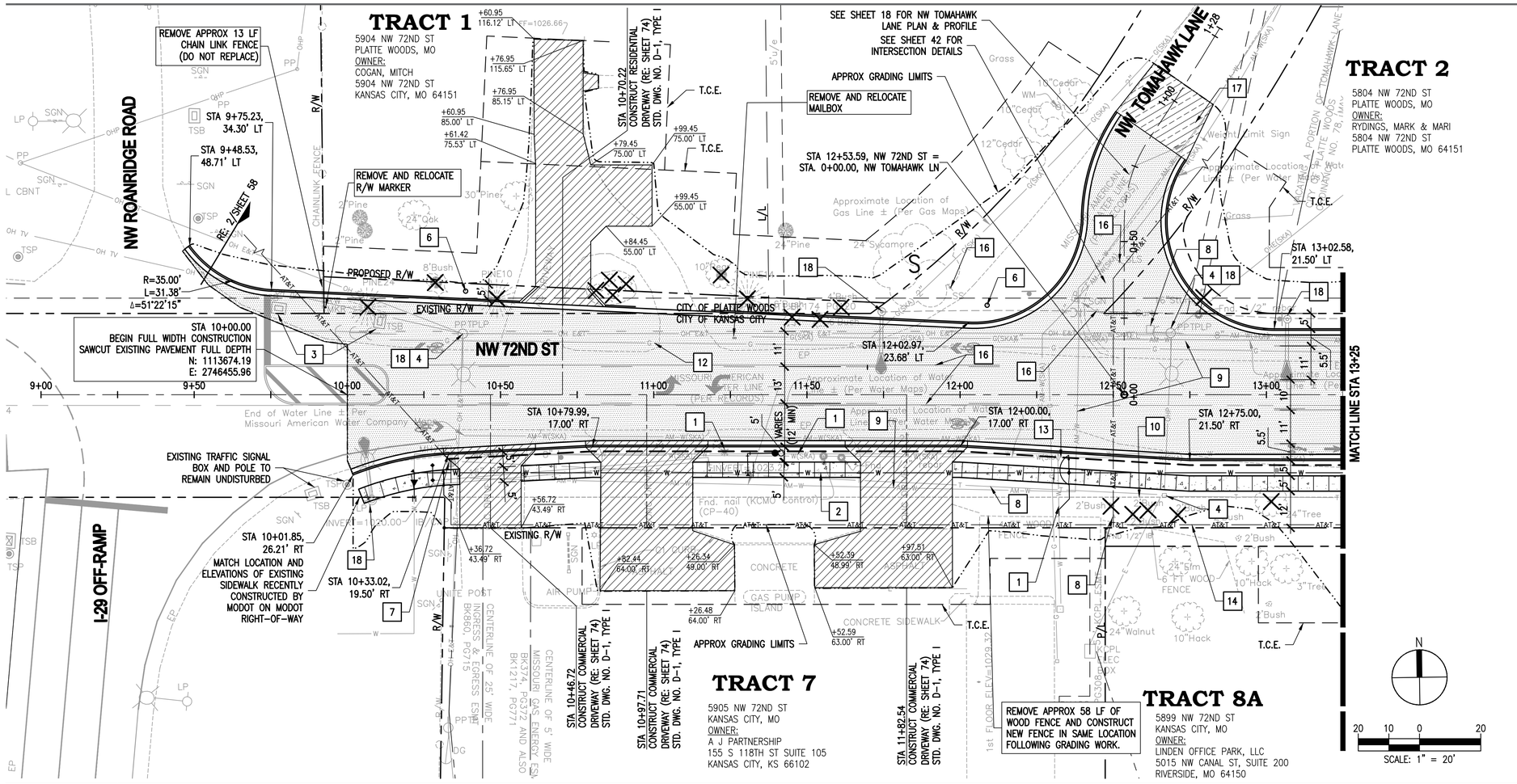

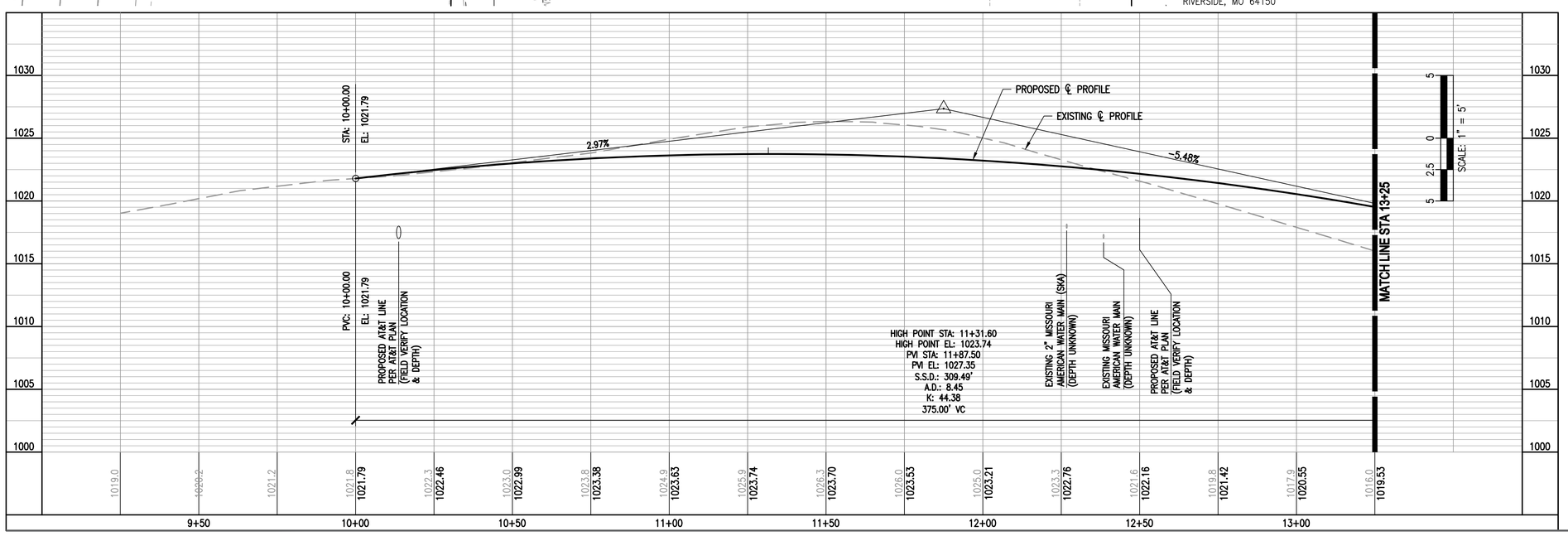

KEYNOTES:

1. EXISTING KCMO WATER MAIN SYSTEM (INCLUDING WATER LINE, VALVES, FIRE HYDRANTS, ETC.) TO BE REMOVED AND/OR ABANDONED. REFER TO SEPARATE PLAN SET TITLED "WATER MAIN REPLACEMENT ALONG NW 72ND STREET I-29 TO N. OVERLAND DRIVE" FOR DESIGN INFORMATION.
2. NEW WATER MAIN SYSTEM. REFER TO SEPARATE PLAN SET TITLED "WATER MAIN REPLACEMENT ALONG NW 72ND STREET FROM I-29 TO OVERLAND DRIVE" FOR DESIGN INFORMATION.
3. CONTRACTOR TO ADJUST TOP OF MANHOLE OR UTILITY STRUCTURE TO PROPOSED GRADE.
4. KCP&L TO REMOVE AND RELOCATE POWER POLE.
5. KCP&L TO REMOVE AND RELOCATE UNDERGROUND UTILITY SYSTEMS.
6. APPROXIMATE LOCATION OF PROPOSED KCP&L POWER POLE.
7. AT&T TO ADJUST TOP OF UTILITY MANHOLE TO PROPOSED GRADE.
8. AT&T TO REMOVE AND/OR ABANDON UNDERGROUND UTILITY SYSTEMS.
9. MISSOURI AMERICAN TO ABANDON EXISTING WATER MAIN.
10. CONTRACTOR TO RELOCATE EXISTING KCMO FIBER OPTIC SYSTEM.
11. UNITE TO REMOVE AND RELOCATE UNDERGROUND UTILITY SYSTEMS.
12. MGE TO REMOVE AND RELOCATE UNDERGROUND UTILITY SYSTEMS.
13. APPROXIMATE LOCATION OF PROPOSED KCMO FIBER OPTIC SYSTEM.
14. APPROXIMATE LOCATION OF PROPOSED AT&T UNDERGROUND UTILITY SYSTEM.
15. REFER TO SHEETS 75 THROUGH 84 FOR STORM SEWER INFORMATION.
16. REFER TO PAVEMENT MARKINGS AND SIGNING PLANS
17. CONSTRUCT ASPHALT PAVEMENT TRANSITION (RE: 6/SHEET 57)
18. REFER TO STREET LIGHTING PLANS.

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PLAN & PROFLE - NW 72ND ST

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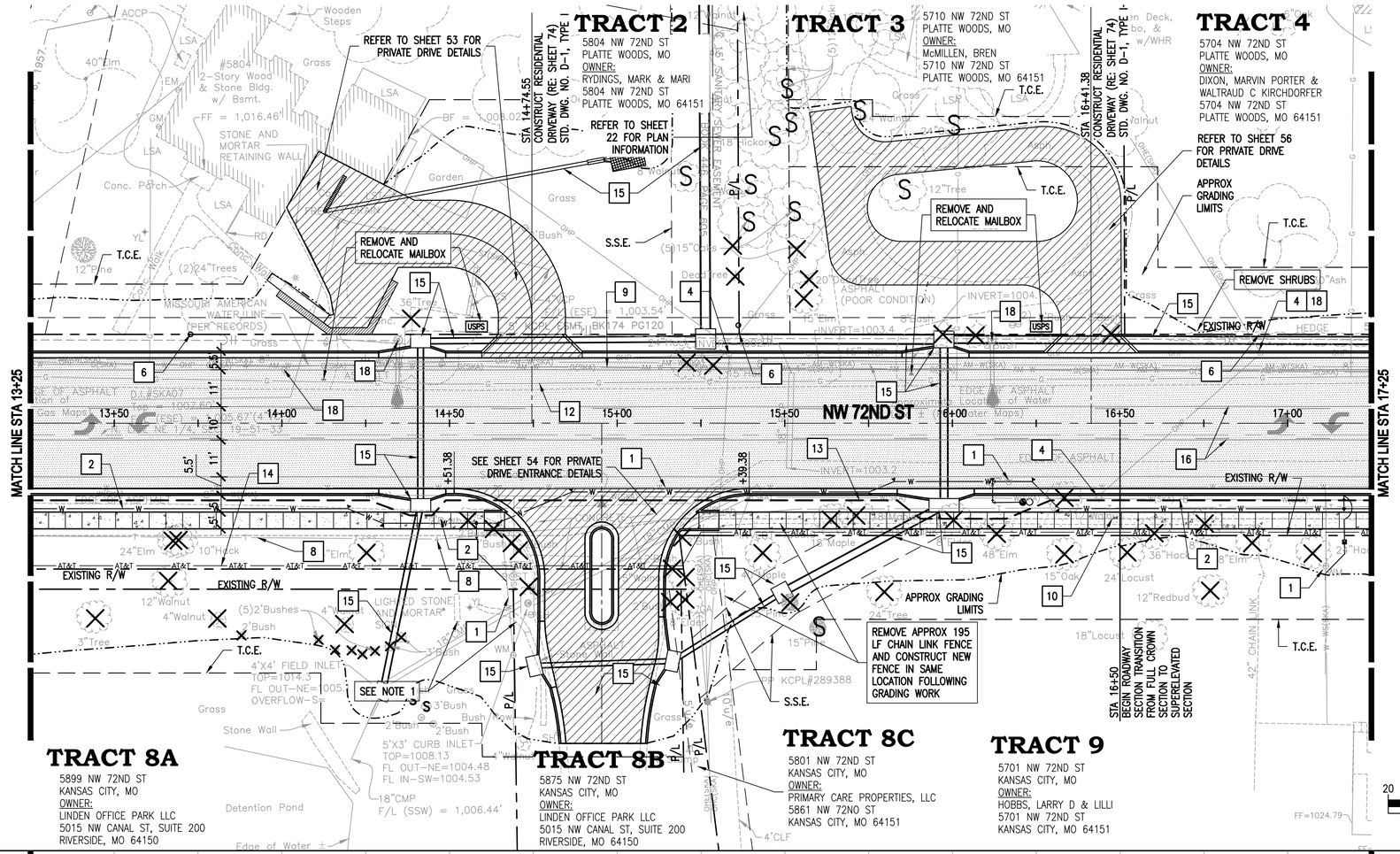

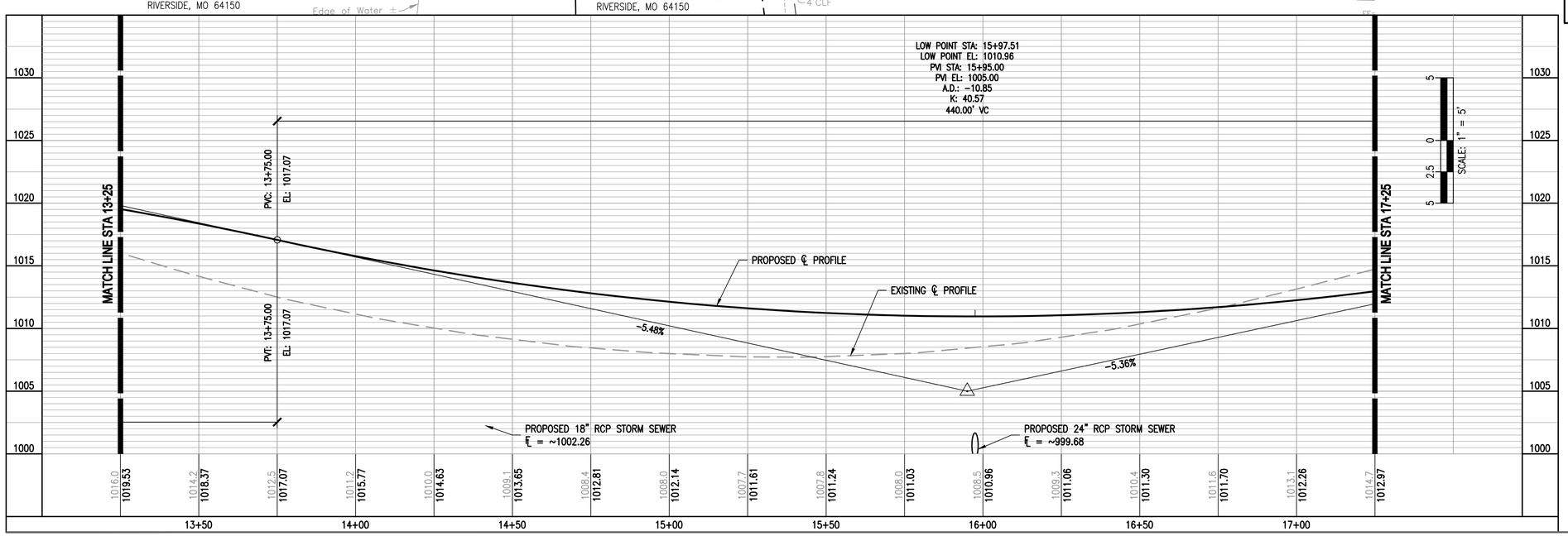

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2. NEW WATER MAIN SYSTEM. REFER TO SEPARATE PLAN SET TITLED "WATER MAIN REPLACEMENT ALONG NW 72ND STREET FROM I-29 TO OVERLAND DRIVE" FOR DESIGN INFORMATION.
3. CONTRACTOR TO ADJUST TOP OF MANHOLE OR UTILITY STRUCTURE TO PROPOSED GRADE.
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10. CONTRACTOR TO RELOCATE EXISTING KCMO FIBER OPTIC SYSTEM.
11. UNITE TO REMOVE AND RELOCATE UNDERGROUND UTILITY SYSTEMS.
12. MGE TO REMOVE AND RELOCATE UNDERGROUND UTILITY SYSTEMS.
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16. REFER TO PAVEMENT MARKINGS AND SIGNING PLANS
17. CONSTRUCT ASPHALT PAVEMENT TRANSITION (RE: 6/SHEET 57)
18. REFER TO STREET LIGHTING PLANS.

NOTES:

1. REMOVE AND SALVAGE EXISTING SIGNAGE ITEMS FOR REINSTALLATION. COORDINATE WITH PROPERTY OWNER AND ENGINEER PRIOR TO REINSTALLATION.

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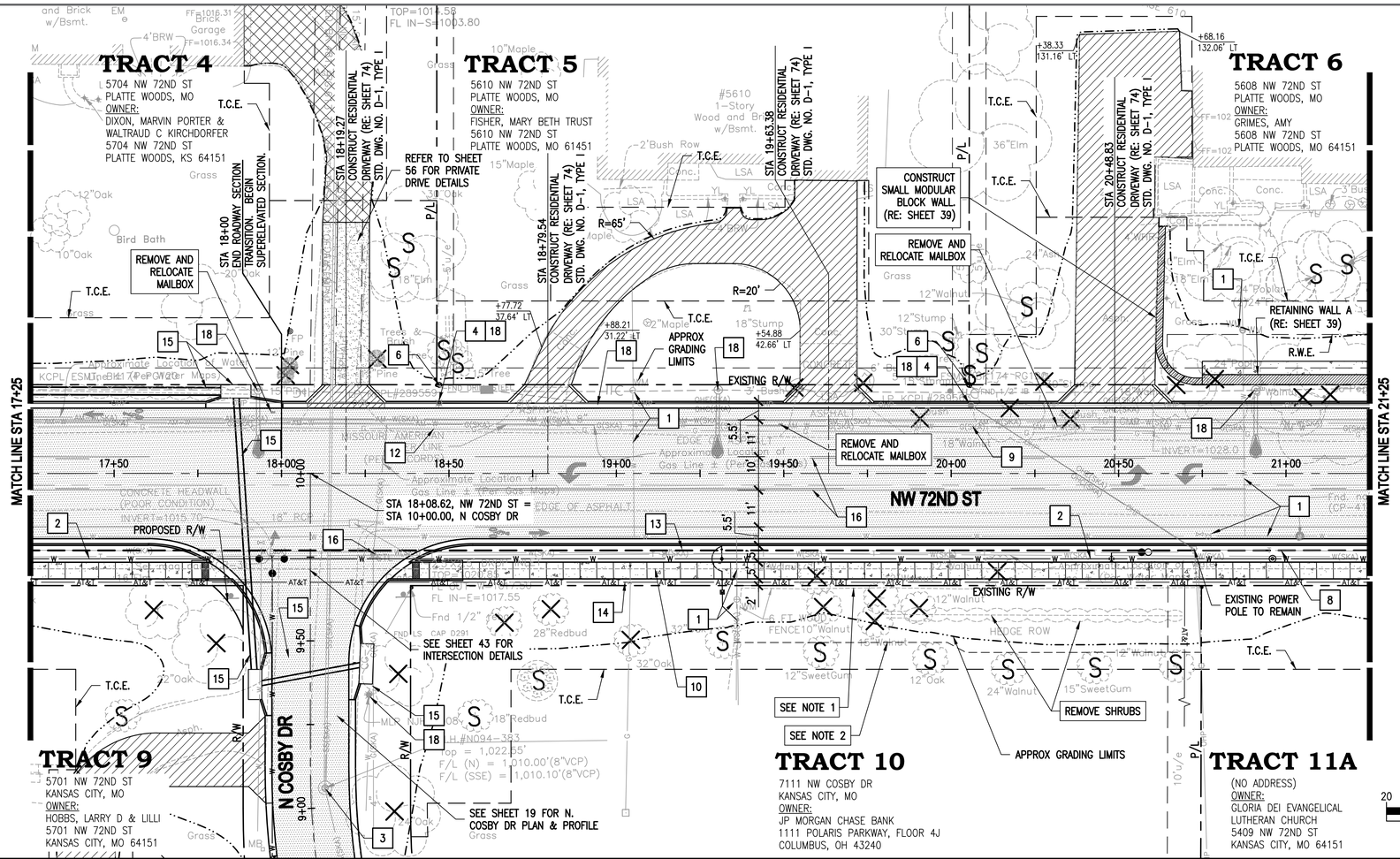

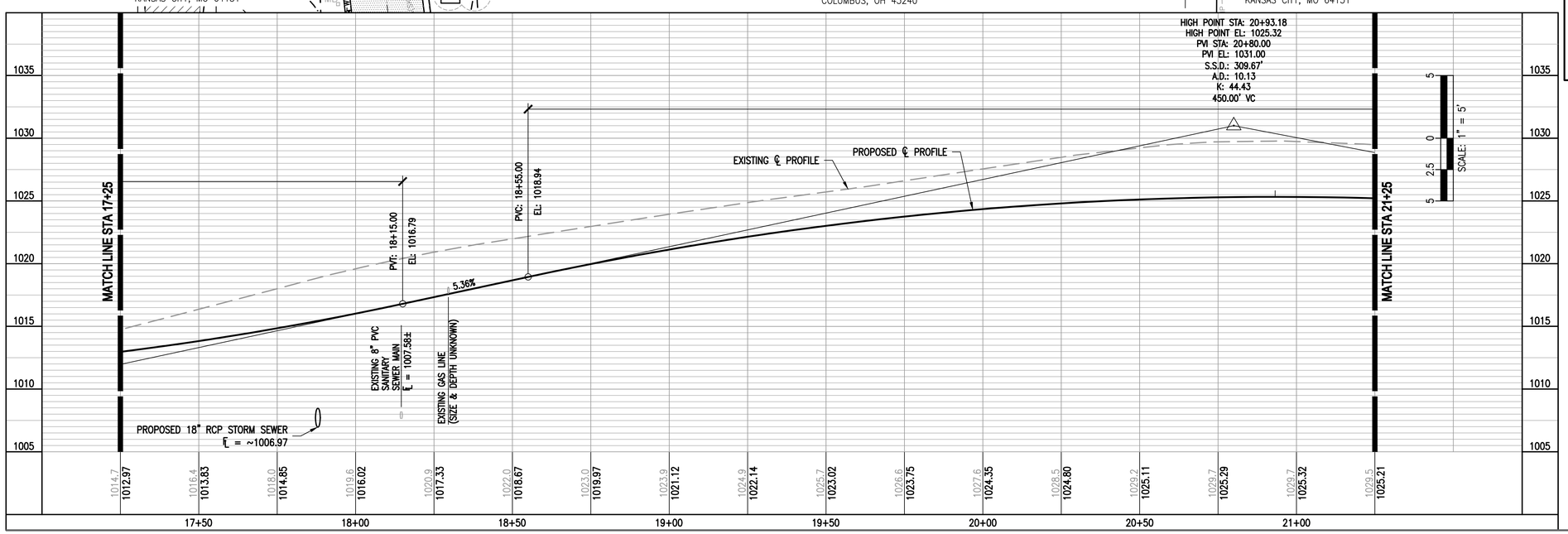

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18. REFER TO STREET LIGHTING PLANS.

NOTES:

1. REMOVE EXISTING FENCE WITHIN CONSTRUCTION LIMITS AND REPLACE WITH NEW FENCING IN SAME LOCATION FOLLOWING GRADING. NEW FENCING TO MATCH EXISTING FENCING TO REMAIN.
2. INSTALL AND MAINTAIN TEMPORARY FENCING ONCE EXISTING FENCE IS REMOVED. MAINTAIN TEMPORARY FENCING UNTIL NEW FENCE IS CONSTRUCTED.

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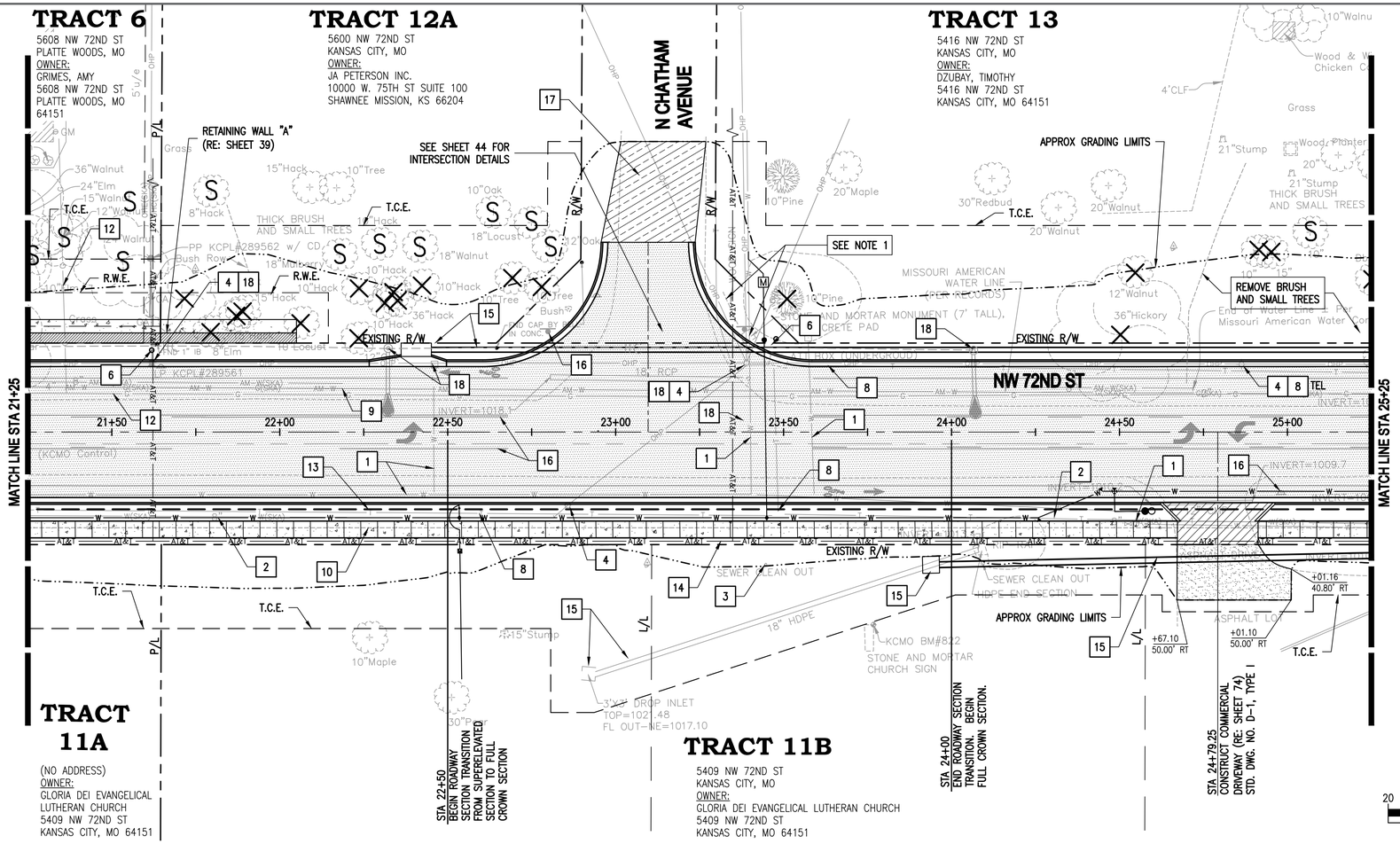

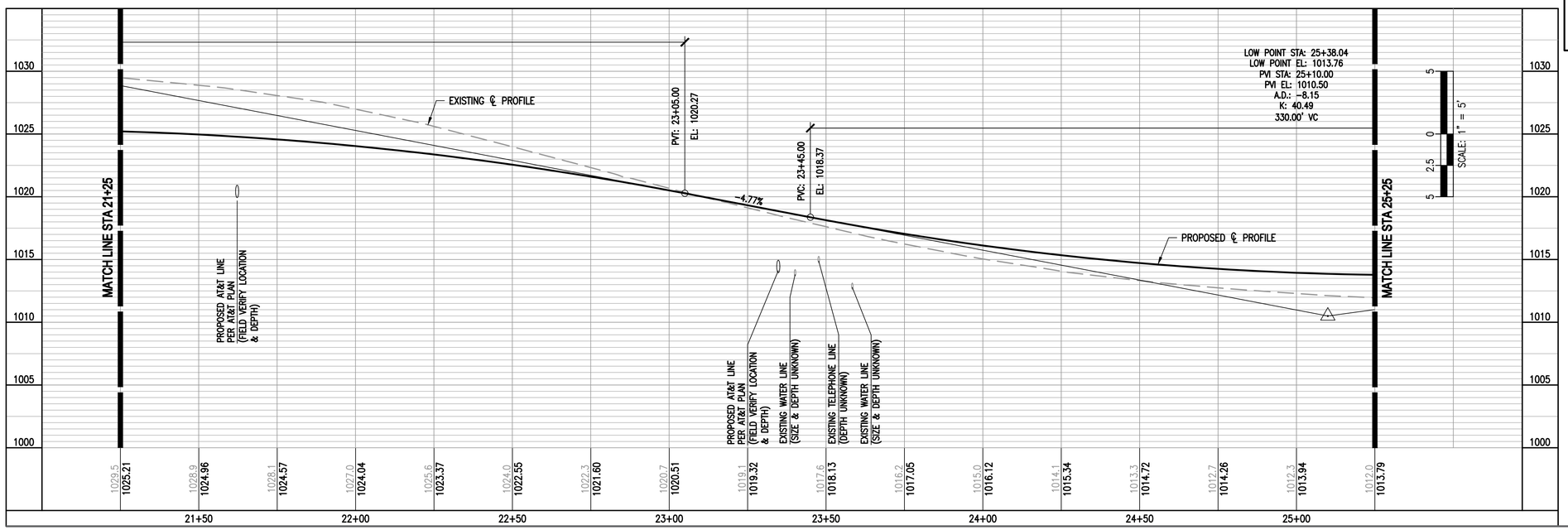

KEYNOTES:

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9. MISSOURI AMERICAN TO ABANDON EXISTING WATER MAIN.
10. CONTRACTOR TO RELOCATE EXISTING KCMO FIBER OPTIC SYSTEM.
11. UNITE TO REMOVE AND RELOCATE UNDERGROUND UTILITY SYSTEMS.
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17. CONSTRUCT ASPHALT PAVEMENT TRANSITION (RE: 6/SHEET 57)
18. REFER TO STREET LIGHTING PLANS.

NOTES:

1. REMOVE AND SALVAGE EXISTING SIGNAGE AND MONUMENT FOR REINSTALLATION. COORDINATE WITH LAKE WAUKOMIS AND ENGINEER PRIOR TO REINSTALLATION.

WALTER P MOORE
MO PE Corporation No. 1999141112
WALTER P. MOORE AND ASSOCIATES, INC.
920 MAIN STREET, TENTH FLOOR
KANSAS CITY, MISSOURI 64105.2008
PHONE: 816.701.2100 FAX: 816.701.2200

IN ASSOCIATION WITH

PROJECT NAME

CITY OF KANSAS CITY, MISSOURI
CITY PROJECT # 89008230
FEDERAL PROJECT # STP-3451(401)
NW 72ND STREET IMPROVEMENTS

STATE OF MISSOURI
MICHAEL JOSEPH HAAKE
NUMBER PE-2014007366
PROFESSIONAL ENGINEER
6/22/2018

NO.	DATE	SUBMITTALS
1	12/21/2018	ADDENDUM NO. 3

DESIGNED BY M.J.H.
REVIEWED BY D.L.B.
DRAWN BY D.M.B.
PROJECT NUMBER C08-13003-00
DATE 22 JUNE 2018
SHEET TITLE
PLAN & PROFLE - NW 72ND ST
SHEET NUMBER
14 OF 113

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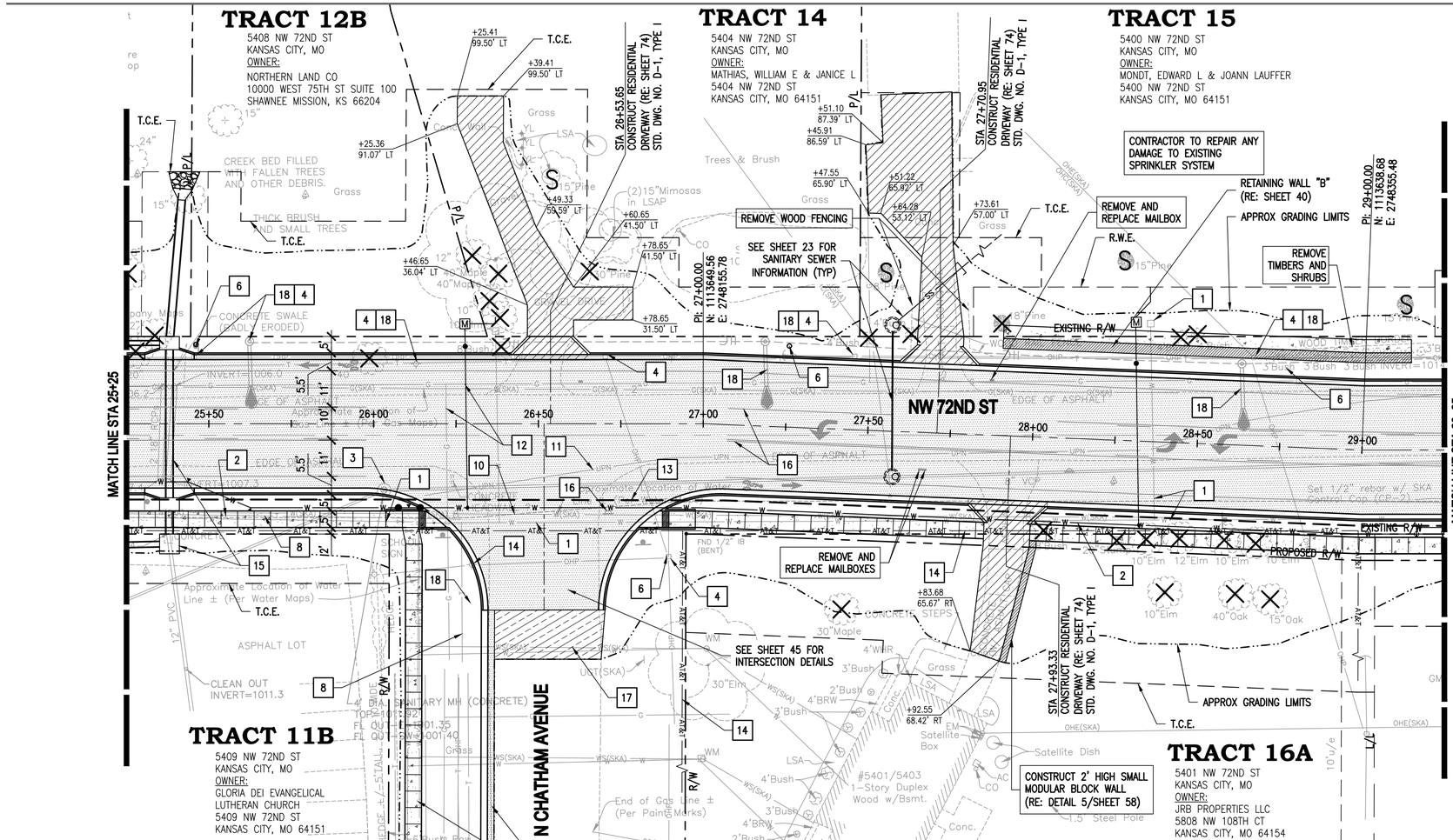

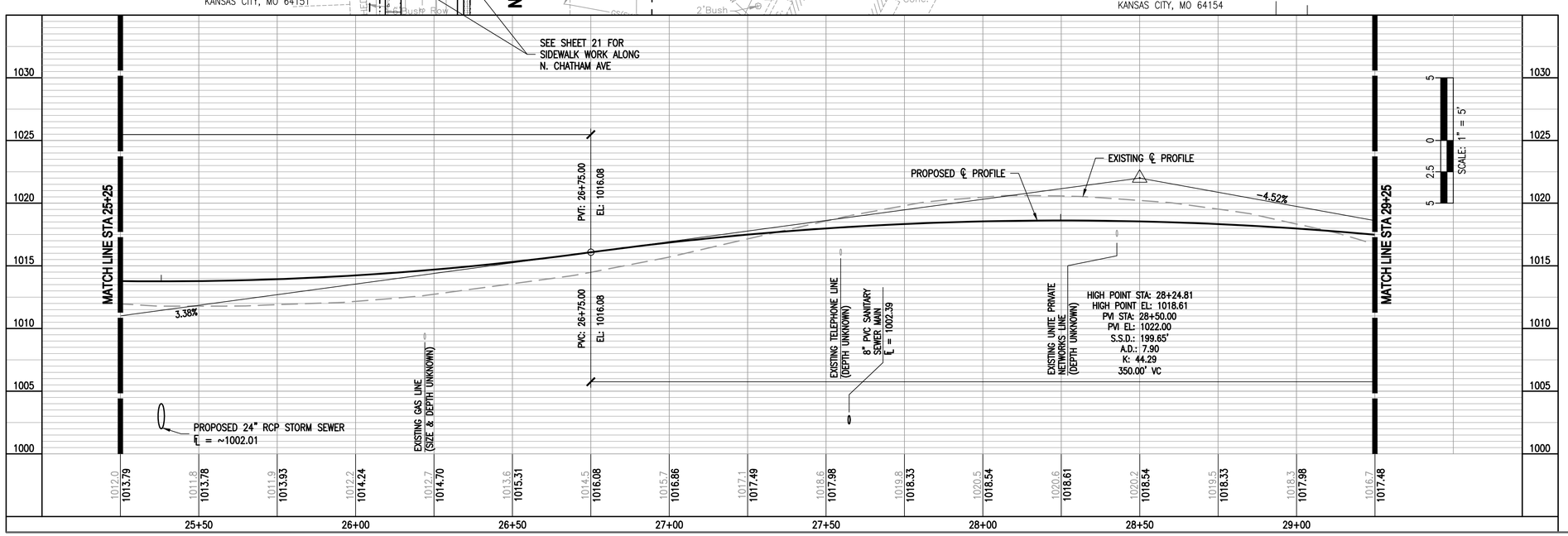

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IN ASSOCIATION WITH

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CITY PROJECT # 89008230

FEDERAL PROJECT # STP-3451(401)

NW 72ND STREET IMPROVEMENTS

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MICHAEL JOSEPH HAAKE
NUMBER PE-2014007266
PROFESSIONAL ENGINEER
6/22/2018

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DESIGNED BY M.J.H.

REVIEWED BY D.L.B.

DRAWN BY D.M.B.

PROJECT NUMBER C08-13003-00

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SHEET TITLE

PLAN & PROFLE - NW 72ND ST

SHEET NUMBER

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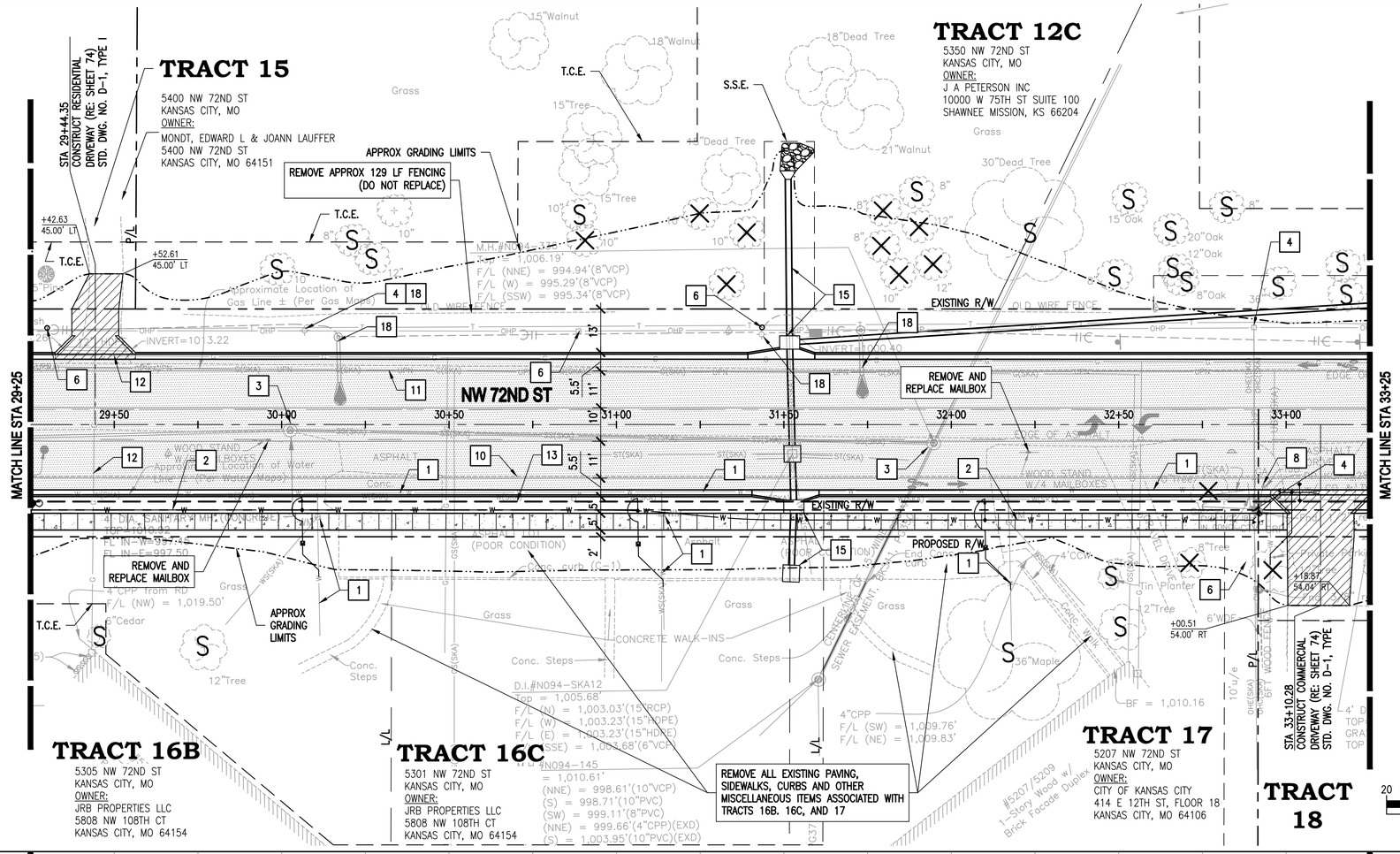

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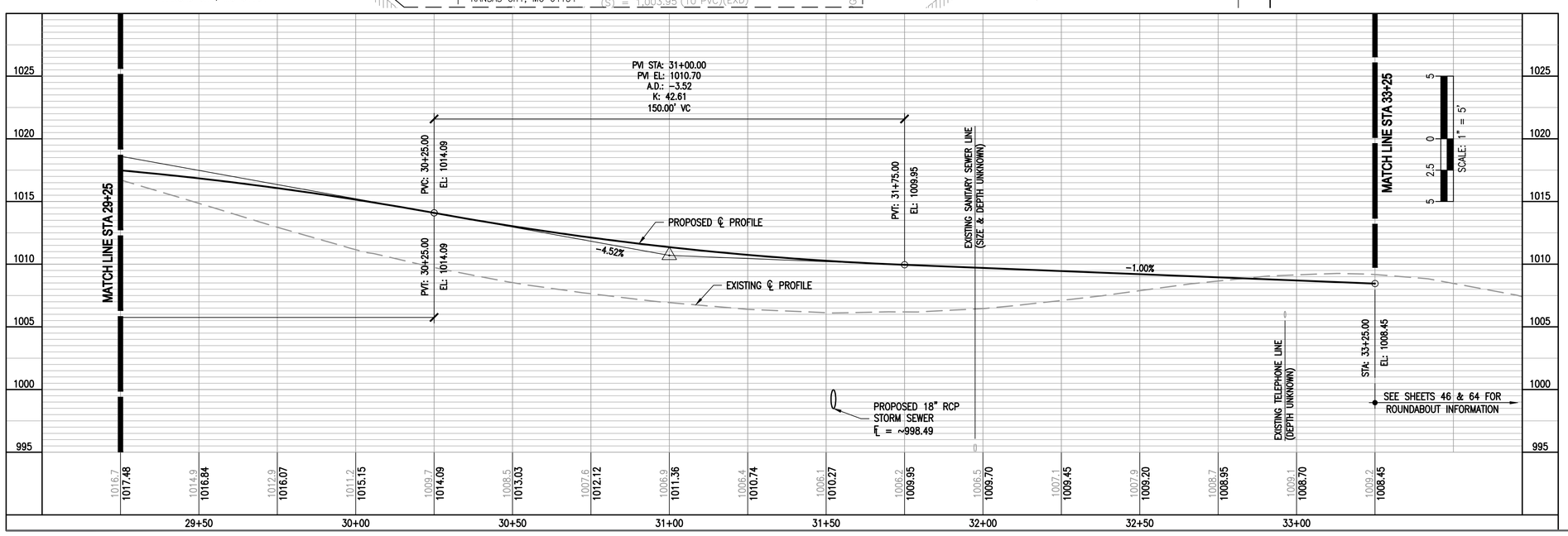

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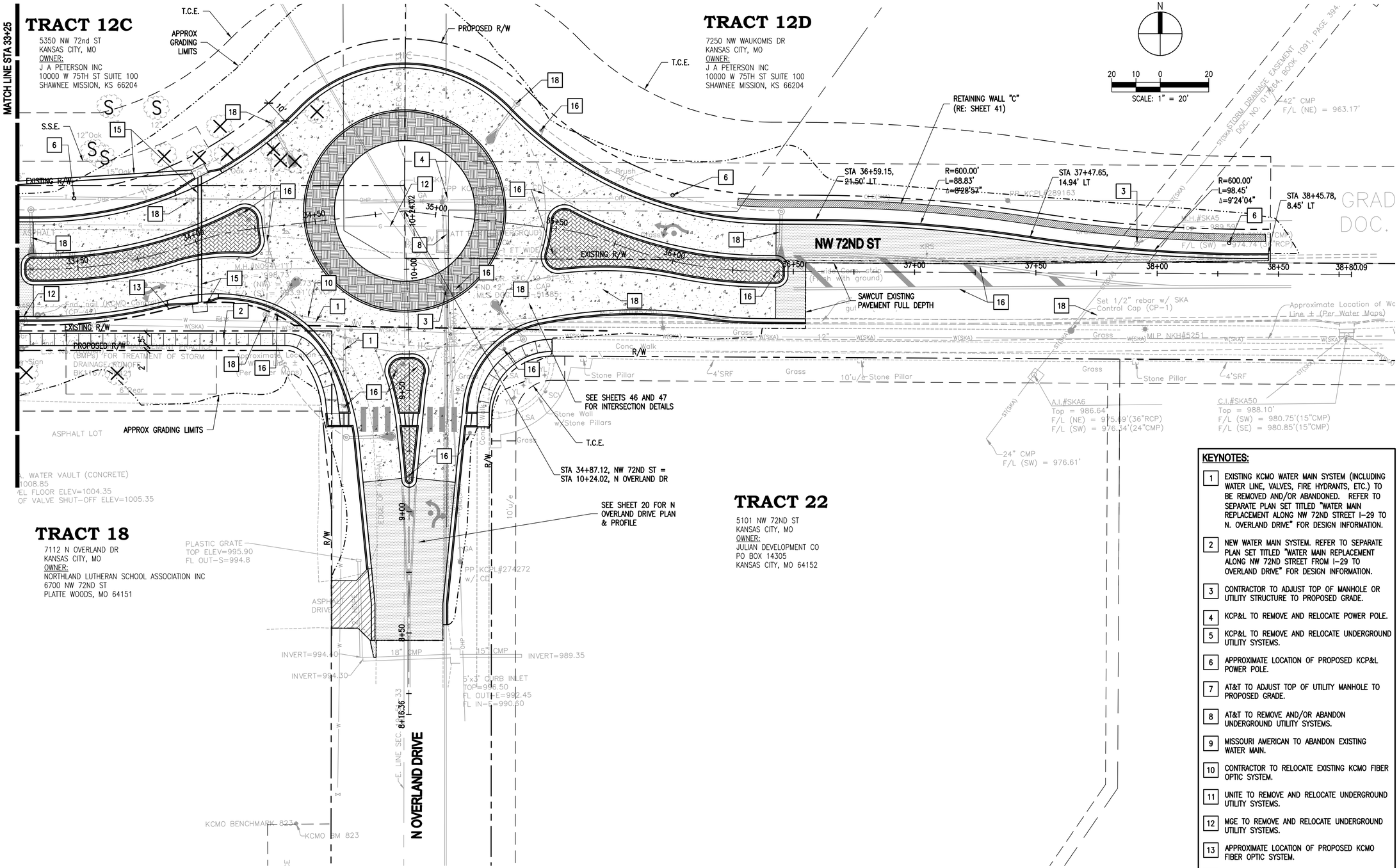

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PHONE: 816.701.2100 FAX: 816.701.2200

IN ASSOCIATION WITH

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CITY OF KANSAS CITY, MISSOURI

CITY PROJECT # 89008230
FEDERAL PROJECT # STP-3451(401)
NW 72ND STREET IMPROVEMENTS

STATE OF MISSOURI
MICHAEL JOSEPH HAAKE
NUMBER PE-2014007266
PROFESSIONAL ENGINEER
6/22/2018

NO.	DATE	SUBMITTALS
1	12/21/2018	ADDENDUM NO. 3

DESIGNED BY M.J.H.
REVIEWED BY D.L.B.
DRAWN BY D.M.B.
PROJECT NUMBER C08-13003-00
DATE 22 JUNE 2018
SHEET TITLE PLAN - NW 72ND ST
SHEET NUMBER

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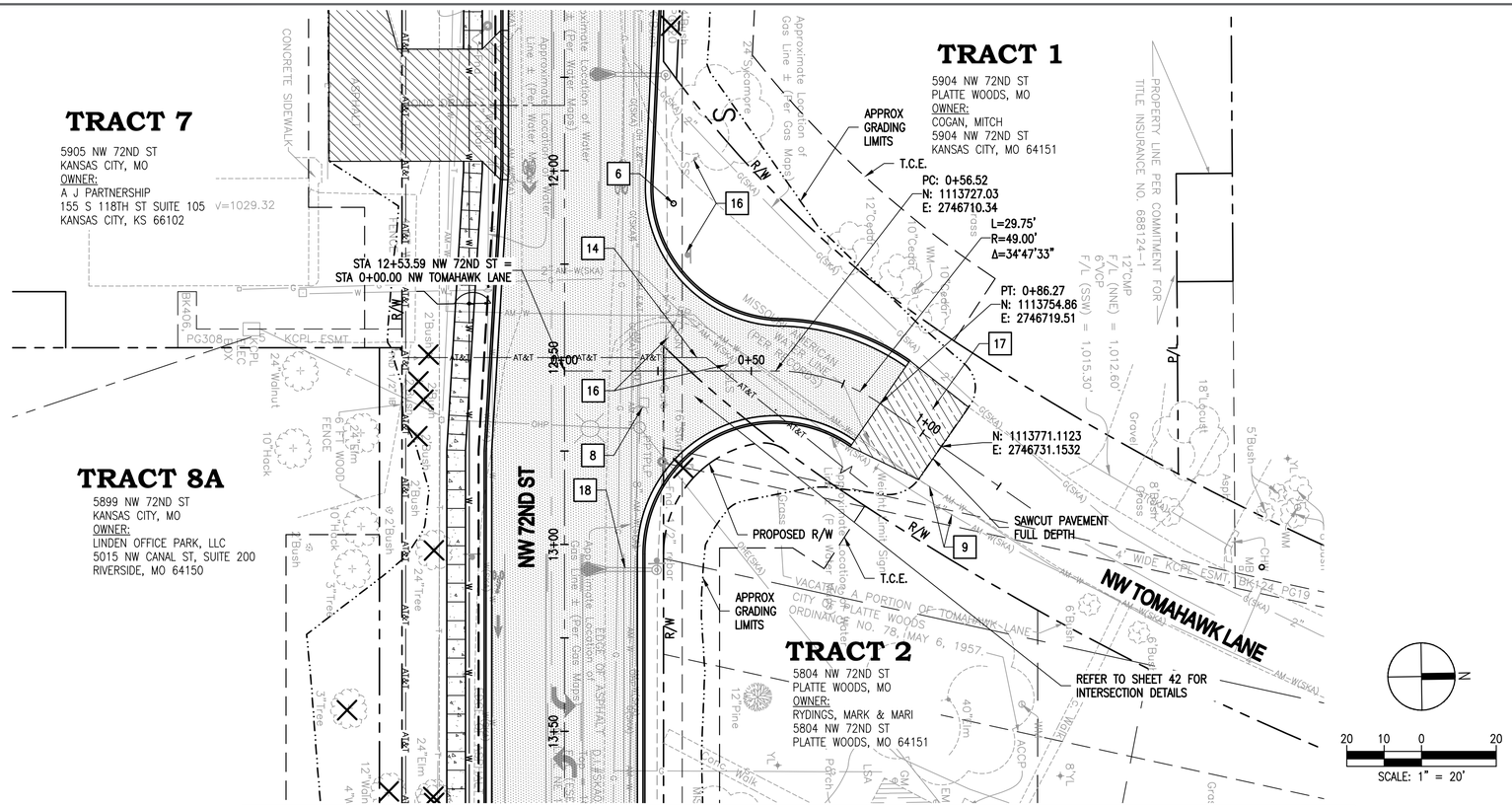

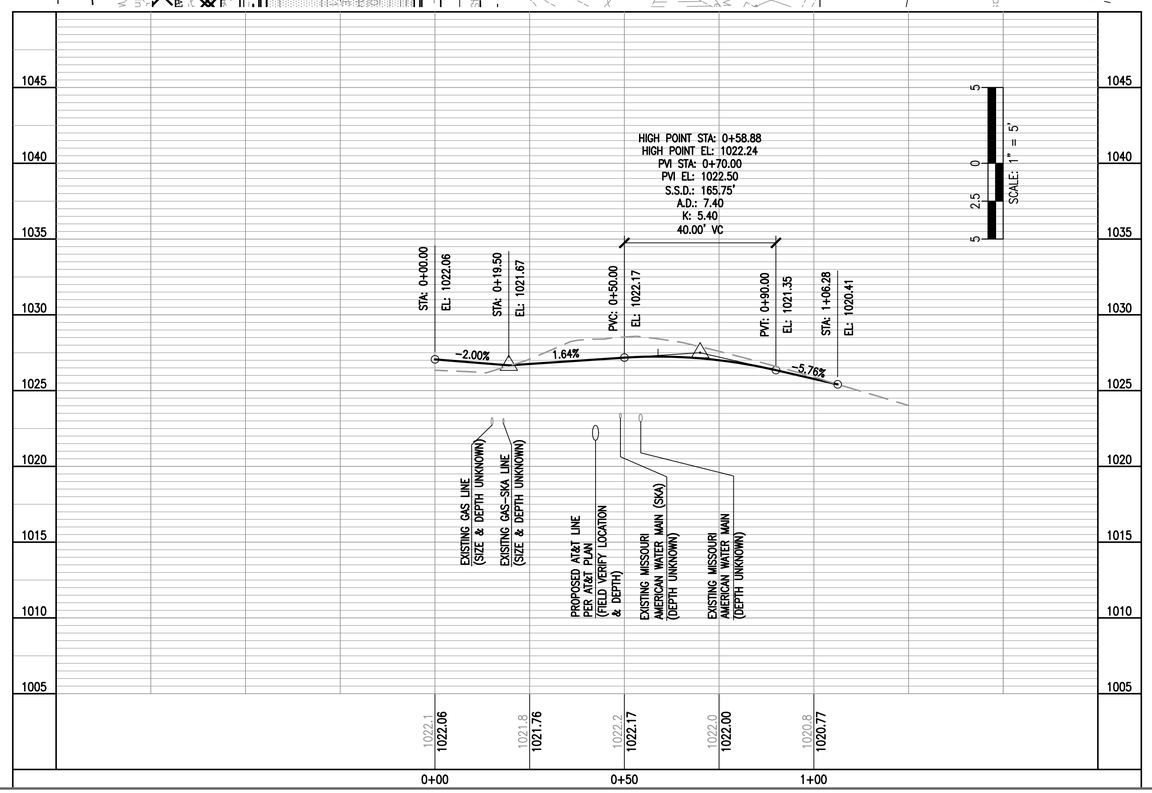

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IN ASSOCIATION WITH

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CITY PROJECT # 89008230

FEDERAL PROJECT # STP-3451(401)

NW 72ND STREET IMPROVEMENTS

STATE OF MISSOURI
MICHAEL JOSEPH HAAKE
NUMBER PE-2014007266
PROFESSIONAL ENGINEER
6/22/2018

NO.	DATE	SUBMITTALS
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DESIGNED BY M.J.H.

REVIEWED BY D.L.B.

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PROJECT NUMBER C08-13003-00

DATE 22 JUNE 2018

SHEET TITLE

PLAN & PROFILE - NW TOMAHAWK LN

SHEET NUMBER

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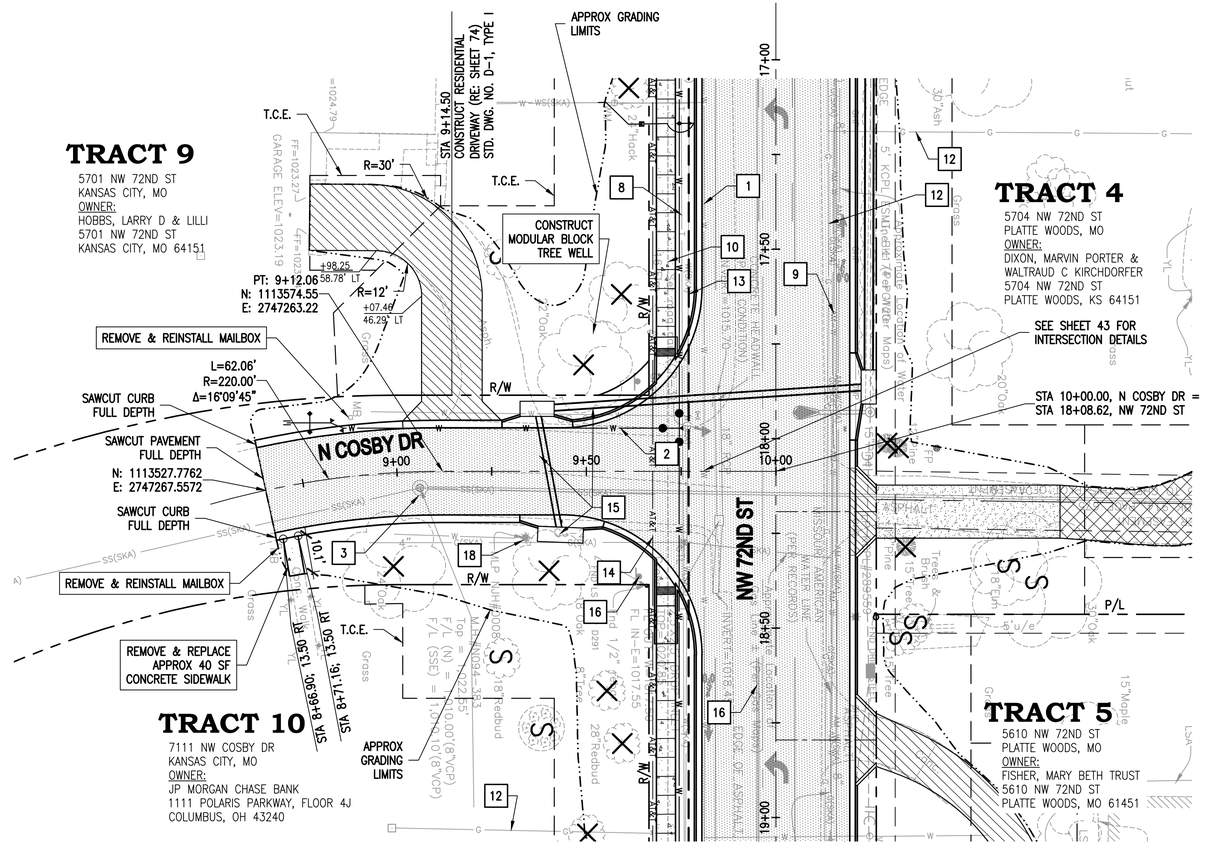

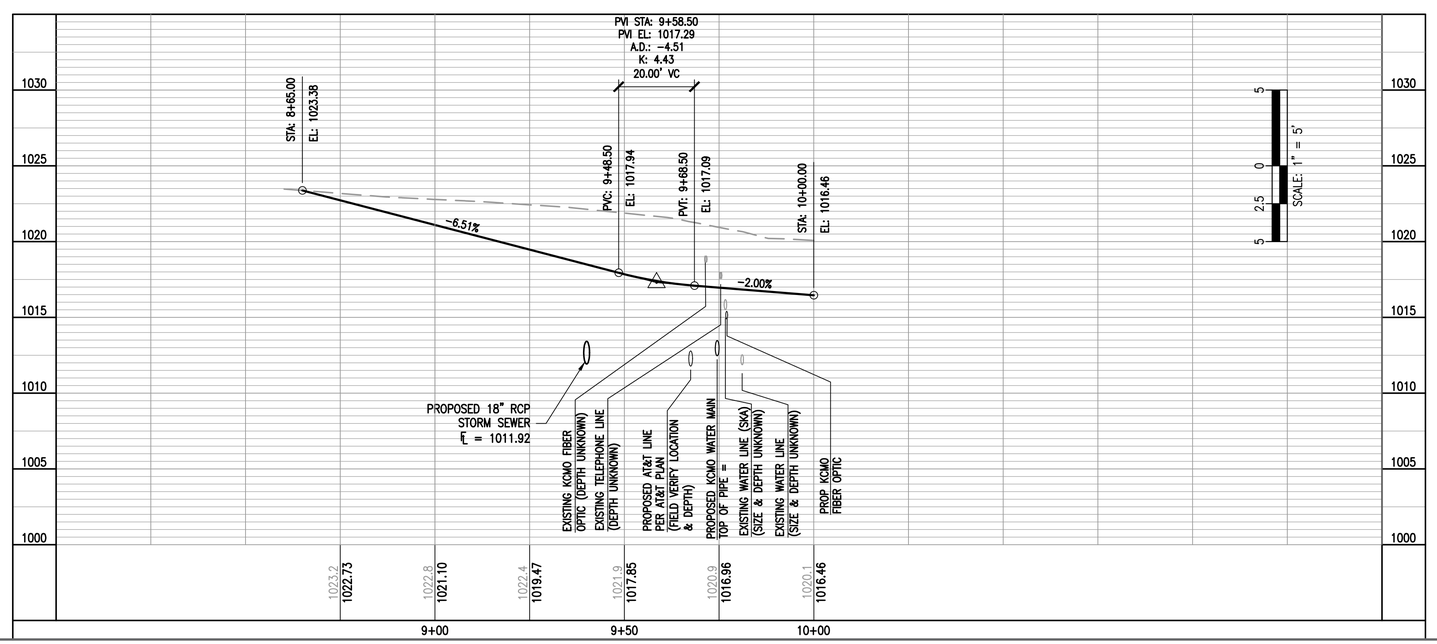

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PLAN & PROFILE - N COSBY DR

SHEET NUMBER

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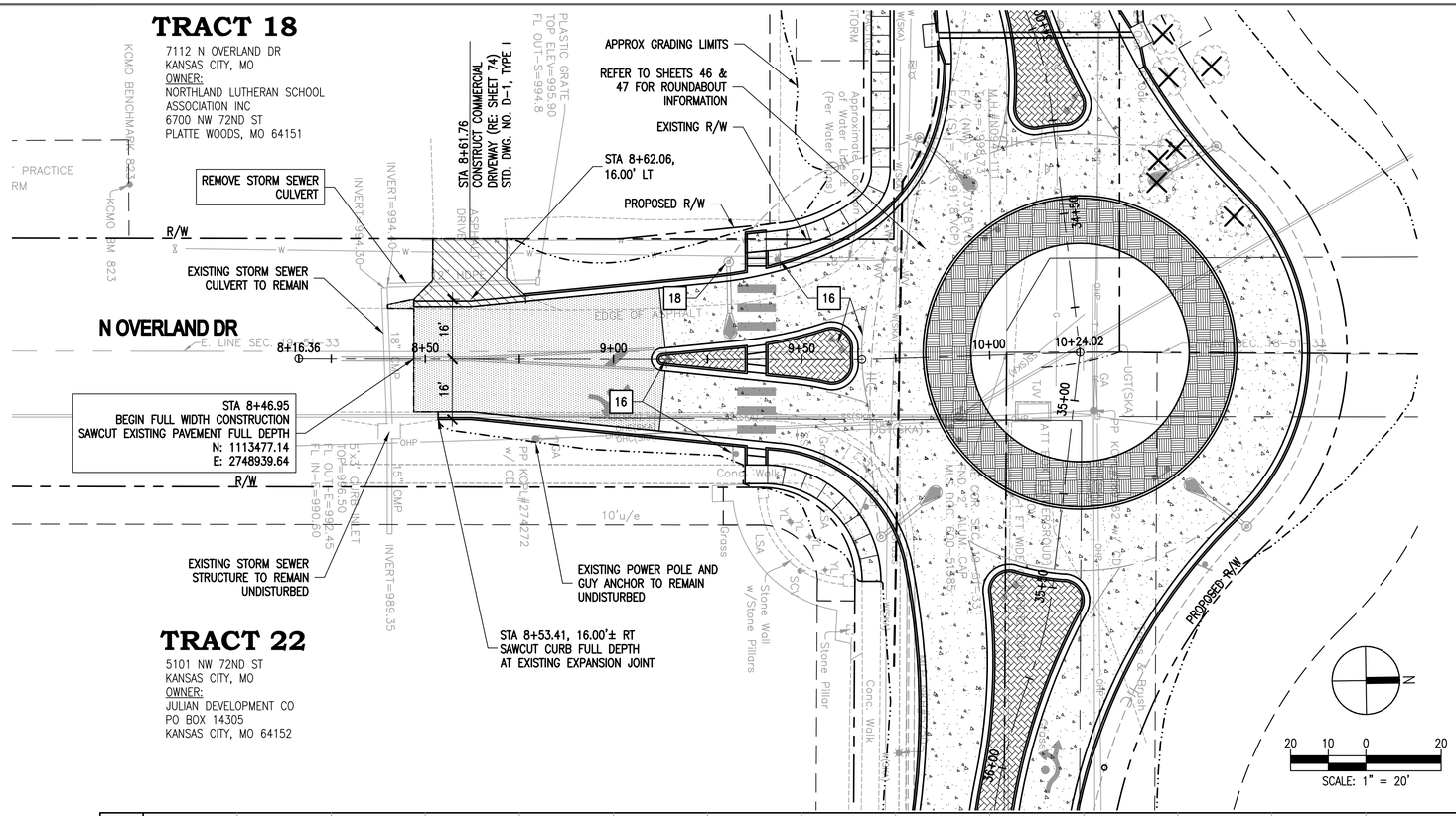

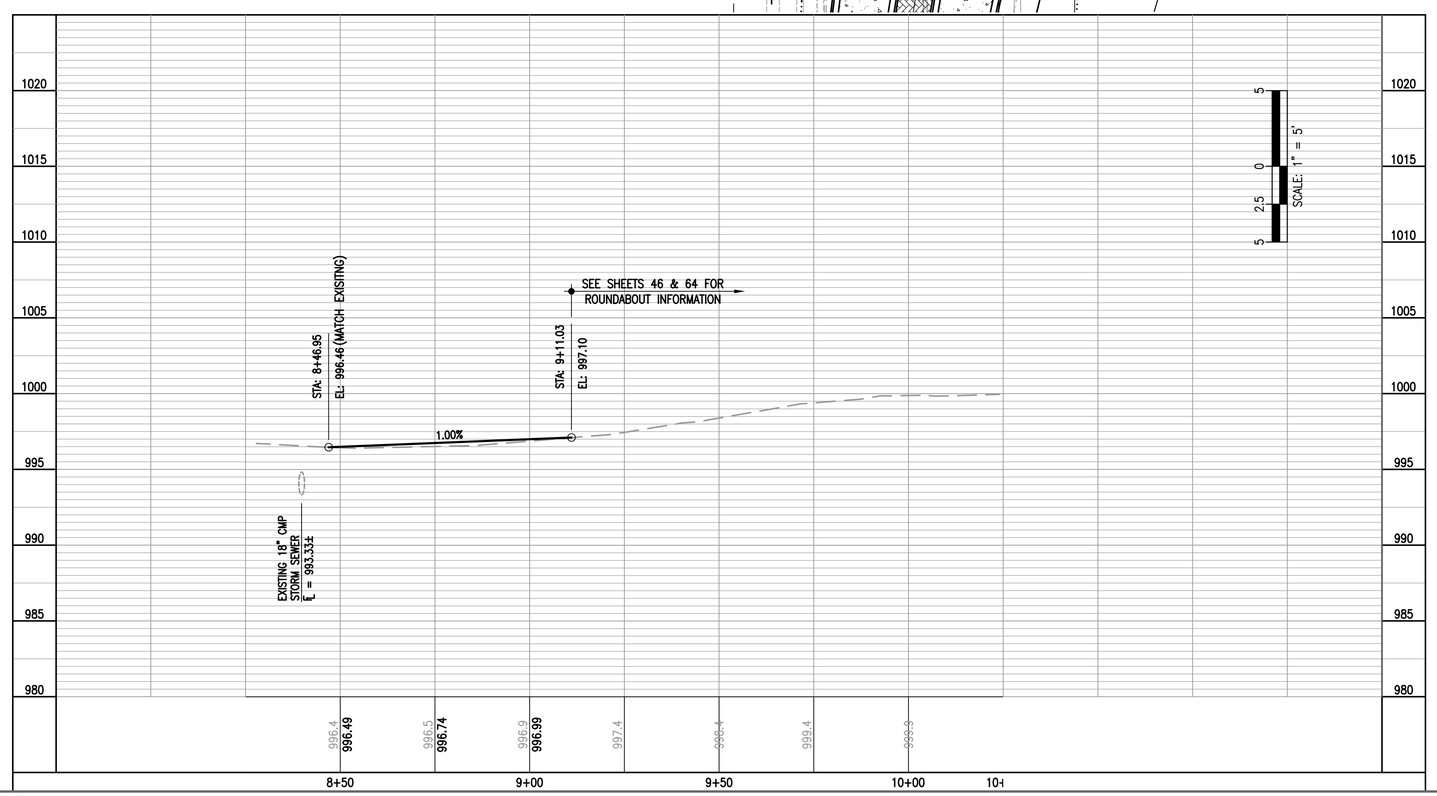

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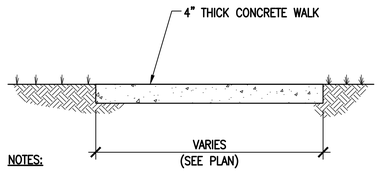
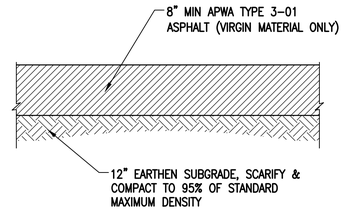


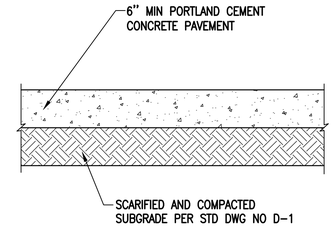
NOTES:

1. PROVIDE TOOLED CONTROL JOINTS AT UNIFORM SPACING EQUAL TO SIDEWALK WIDTH.

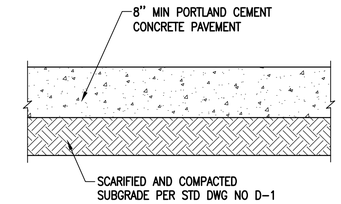
1 SIDEWALK
3/4" = 1'-0"



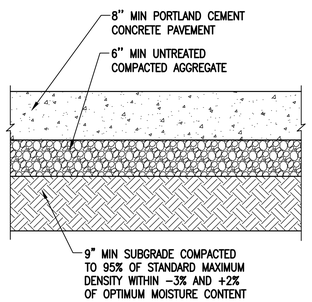
2 RESIDENTIAL ASPHALT DRIVEWAY
1" = 1'-0"



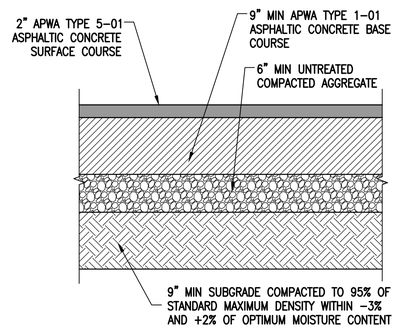
3 RESIDENTIAL CONCRETE DRIVEWAY
1" = 1'-0"



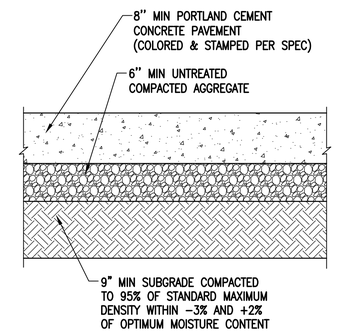
4 COMMERCIAL CONCRETE DRIVEWAY
1" = 1'-0"



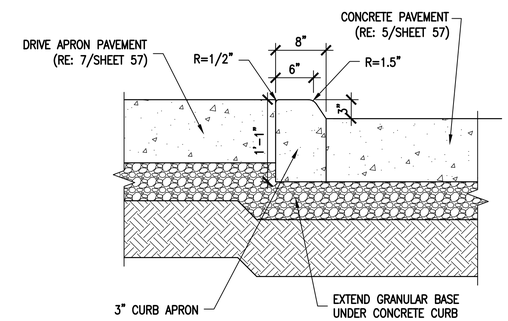
5 CONCRETE PAVEMENT SECTION
1" = 1'-0"



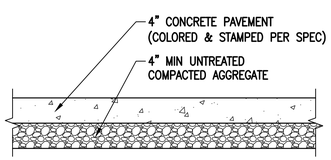
6 ASPHALT PAVEMENT TRANSITION SECTION
1" = 1'-0"



7 DRIVE APRON PAVEMENT SECTION
1" = 1'-0"



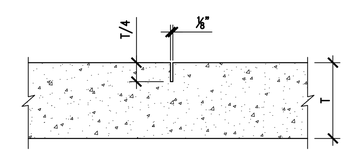
8 SECTION
1" = 1'-0"



9 COLORED CONCRETE PAVEMENT (SPLINTER ISLANDS)
1" = 1'-0"

10 NOT USED
NTS

11 NOT USED
NTS



NOTE: SIDEWALK CONTROL JOINTS SHALL BE SAWCUT.

12 SIDEWALK CONTROL JOIN
3" = 1'-0"

WALTER P MOORE
MO PE Corporation No. 1999141112
WALTER P. MOORE AND ASSOCIATES, INC.
920 MAIN STREET, TENTH FLOOR
KANSAS CITY, MISSOURI 64105.2008
PHONE: 816.701.2100 FAX: 816.701.2200

IN ASSOCIATION WITH

PROJECT NAME

CITY OF KANSAS CITY, MISSOURI
CITY PROJECT # 89008230
FEDERAL PROJECT # STP-3451(401)
NW 72ND STREET IMPROVEMENTS

NO.	DATE	SUBMITTALS
1	12/21/2018	ADDENDUM NO. 3

DESIGNED BY M.J.H.
REVIEWED BY D.L.B.
DRAWN BY D.M.B.
PROJECT NUMBER C08-13003-00
DATE 22 JUNE 2018
SHEET TITLE

SHEET NUMBER DETAILS

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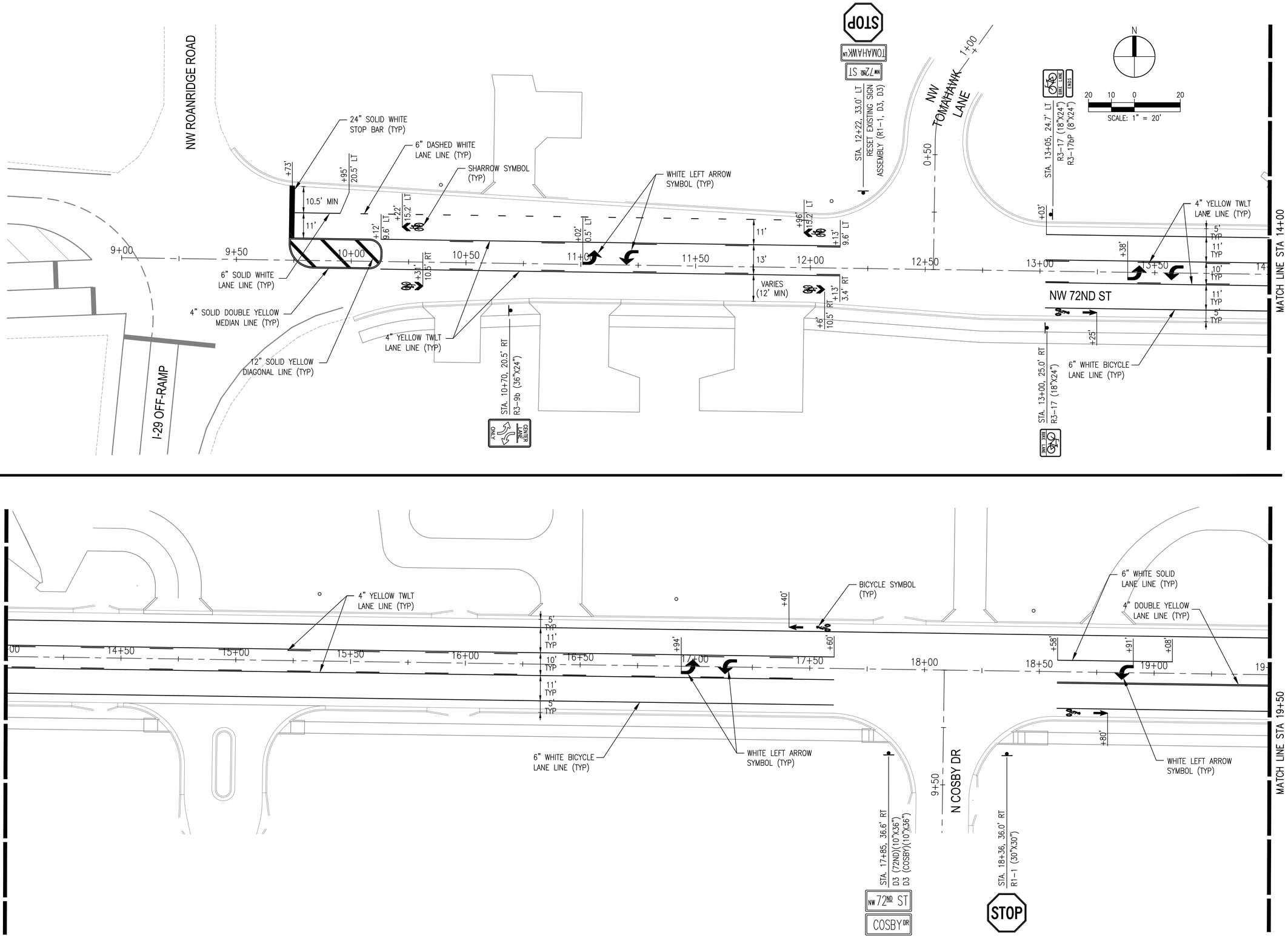

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920 MAIN STREET, TENTH FLOOR
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IN ASSOCIATION WITH

PROJECT NAME

CITY OF KANSAS CITY, MISSOURI

CITY PROJECT # 89008230

FEDERAL PROJECT # STP-3451(401)

NW 72ND STREET IMPROVEMENTS

STATE OF MISSOURI
AMY L. McCURDY
NUMBER E-20100391281
PROFESSIONAL ENGINEER

NO.	DATE	SUBMITTALS
1	12/21/2018	ADDENDUM NO. 3

DESIGNED BY A.L.M.

REVIEWED BY A.L.M.

DRAWN BY A.L.M.

PROJECT NUMBER C08-13003-00

DATE 22 JUNE 2018

SHEET TITLE

PAVEMENT MARKING AND SIGNING PLAN 1 OF 3

SHEET NUMBER

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Dec 21, 2018 – 4:55pm
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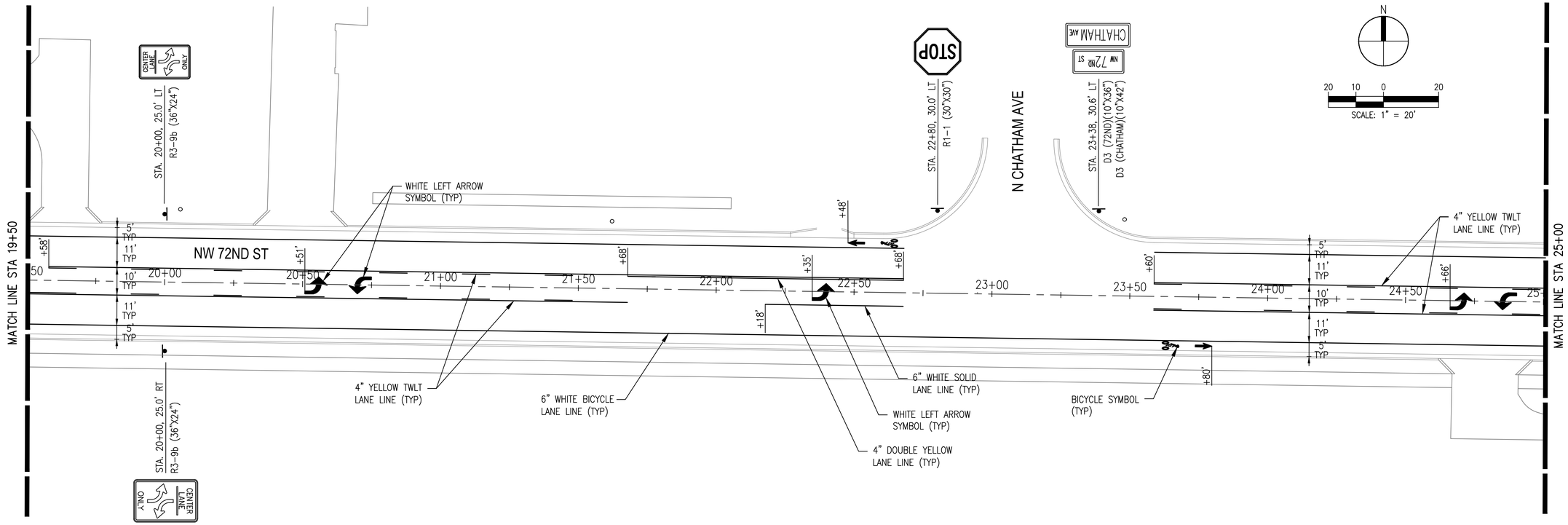

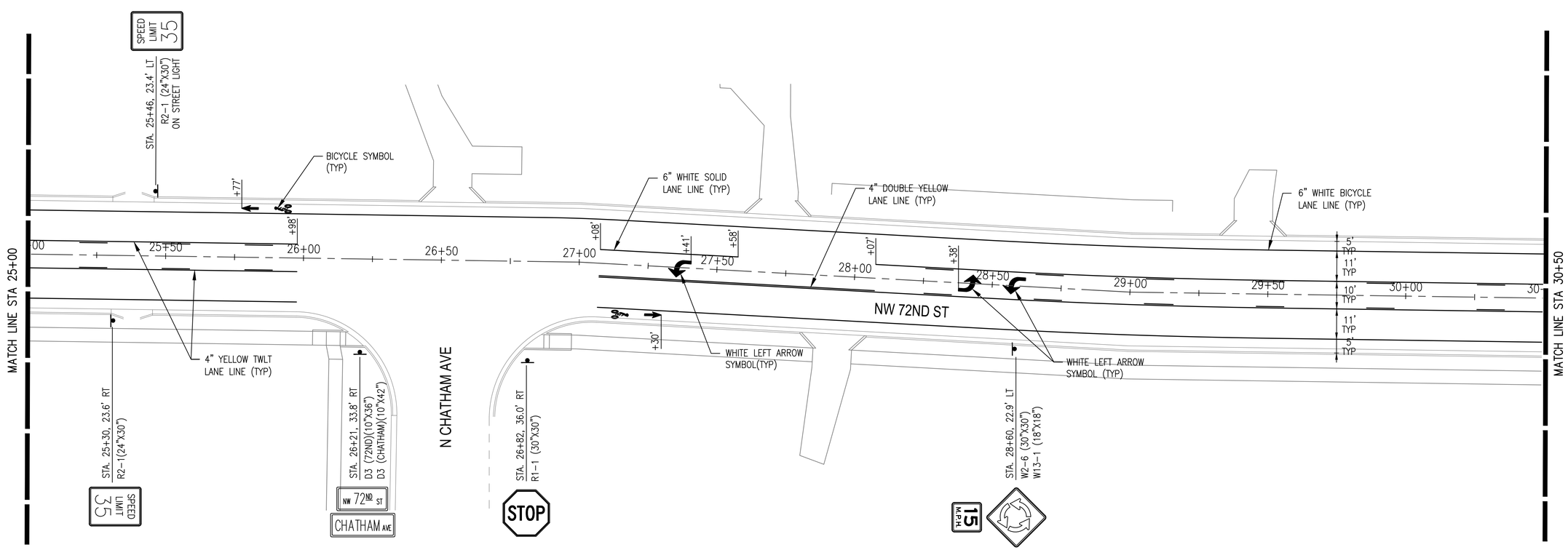

WALTER P MOORE

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920 MAIN STREET, TENTH FLOOR
KANSAS CITY, MISSOURI 64105.2008

PHONE: 816.701.2100 FAX: 816.701.2200

IN ASSOCIATION WITH

PROJECT NAME

CITY OF KANSAS CITY, MISSOURI

CITY PROJECT # 89008230

FEDERAL PROJECT # STP-3451(401)

NW 72ND STREET IMPROVEMENTS

STATE OF MISSOURI
AMY L. McCURDY
NUMBER E-2010039281
PROFESSIONAL ENGINEER

NO.	DATE	SUBMITTALS
1	12/21/2018	ADDENDUM NO. 3

DESIGNED BY A.L.M.

REVIEWED BY A.L.M.

DRAWN BY A.L.M.

PROJECT NUMBER C08-13003-00

DATE 22 JUNE 2018

SHEET TITLE

PAVEMENT MARKING AND SIGNING PLAN 2 OF 3

SHEET NUMBER

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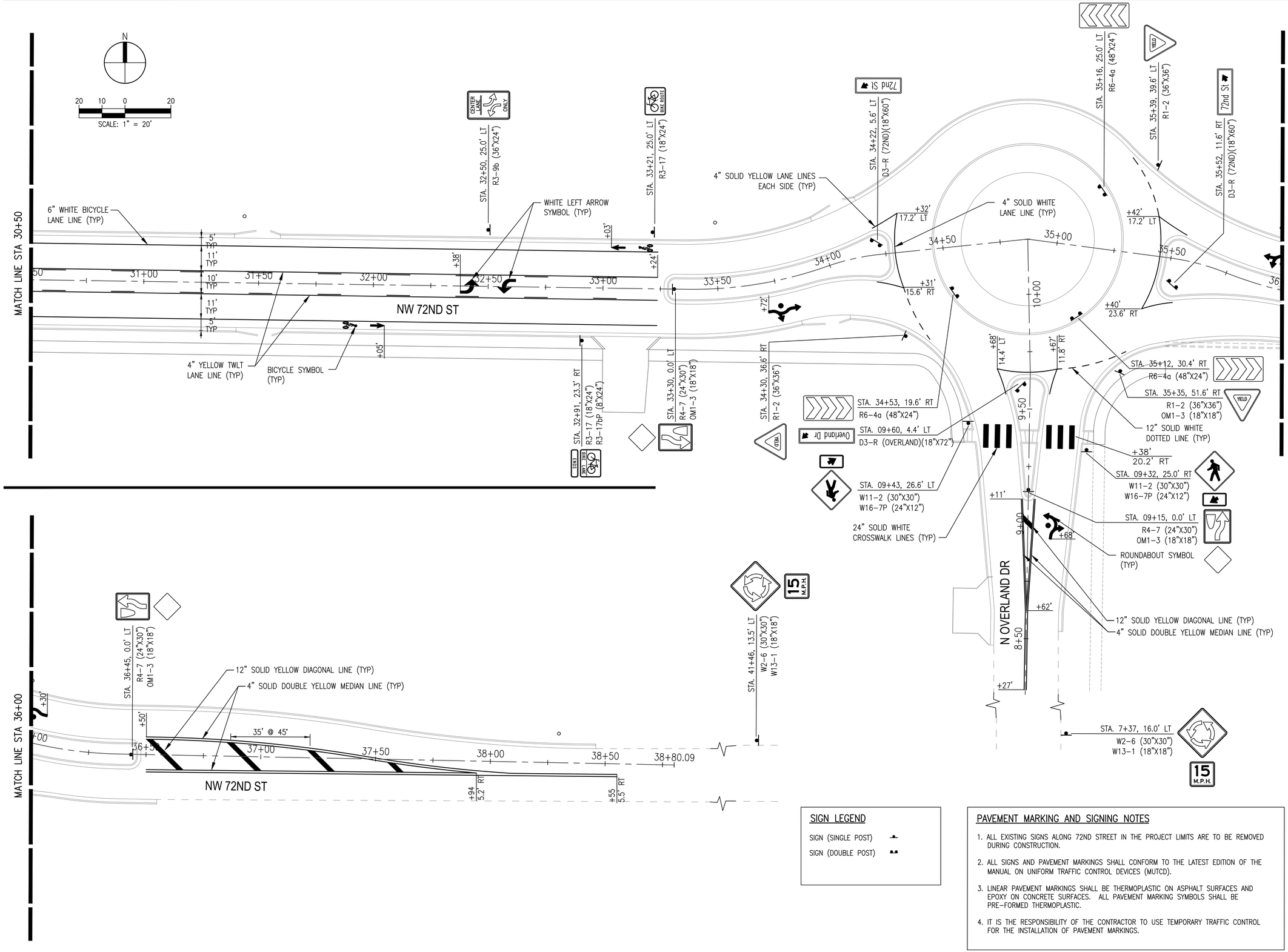

SIGN LEGEND

SIGN (SINGLE POST)

SIGN (DOUBLE POST)

PAVEMENT MARKING AND SIGNING NOTES

1. ALL EXISTING SIGNS ALONG 72ND STREET IN THE PROJECT LIMITS ARE TO BE REMOVED DURING CONSTRUCTION.
2. ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
3. LINEAR PAVEMENT MARKINGS SHALL BE THERMOPLASTIC ON ASPHALT SURFACES AND EPOXY ON CONCRETE SURFACES. ALL PAVEMENT MARKING SYMBOLS SHALL BE PRE-FORMED THERMOPLASTIC.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO USE TEMPORARY TRAFFIC CONTROL FOR THE INSTALLATION OF PAVEMENT MARKINGS.

WALTER P MOORE

MO PE Corporation No. 1999141112

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920 MAIN STREET, TENTH FLOOR
KANSAS CITY, MISSOURI 64105.2008

PHONE: 816.701.2100 FAX: 816.701.2200

IN ASSOCIATION WITH

PROJECT NAME

CITY OF KANSAS CITY, MISSOURI

CITY PROJECT # 89008230

FEDERAL PROJECT # STP-3451(401)

NW 72ND STREET IMPROVEMENTS

STATE OF MISSOURI
AMY L. MCCURDY
NUMBER E-2010039281
PROFESSIONAL ENGINEER

NO.	DATE	SUBMITTALS
1	12/21/2018	ADDENDUM NO. 3

DESIGNED BY A.L.M.

REVIEWED BY A.L.M.

DRAWN BY A.L.M.

PROJECT NUMBER C08-13003-00

DATE 22 JUNE 2018

SHEET TITLE

PAVEMENT MARKING AND SIGNING PLAN 3 OF 3

SHEET NUMBER

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price, as set forth in the Bid Form, and shall constitute all labor, materials, and equipment necessary to complete these item.

Relocate KCMO Fiber

KCMO and the Park Hill School District currently share a 2" conduit located along the south side of the roadway which houses both of their systems. This bid item includes all materials and work to relocate this existing system and install an additional 3" empty conduit adjacent to the relocated 2" conduit. The exact location and depth of the existing system is unknown. Contractor is responsible for coordinating all work related to this bid item with the City of Kansas City Public Work Traffic Department and the Park Hill School District.

Materials and work for this items shall be in accordance with KCMO Public Works Traffic Department specifications and requirements.

Measurement for payment shall be to the nearest linear foot of completed and acceptable work along the relocated (new) conduits. Payment for this item shall be based upon the unit price per linear foot, as set forth in the Bid Form, and shall constitute all labor, materials, and equipment necessary to complete these item. Miscellaneous items, such as pull boxes, are considered subsidiary to this bid item and shall have no separate measurement and payment. No measurement or payment will be made for relocation of the existing 2" conduit which does is not necessary to construct the work. If Contractor desires to relocate additional portions of the existing 2" conduit this additional work and materials is considered subsidiary to other bid items.

Variable Message Signs

Contractor is to provide and maintain two Variable Message Signs (VMS) for the duration of the project. The VMSs shall be placed at the east and west end of the project a minimum of 14-days prior to the start of construction. The boards shall be changed throughout construction to provide information as necessary. The Contractor shall coordinate with the City of Kansas City for location of signs during project and signs shall be replaced during each construction phase as directed by the City.

Each sign shall have a rotatable display and be trailer mounted with tilt and rotate solar panels for batter recharging. Other features shall include:

- Touch screen programmable controller for easy operation
- Full matrix display with minimum dimension of 63 inches by 98 inches and 4 LEDs per pixel cable displaying up to 3 lines of text with up to 8 characters per line.
- Powder coated all-weather trailer with fenders and 2 inch coupler for towing
- Battery with lockable battery boxes
- Operating height of 180 inches and traveling dimensions of no more and 108 inches tall and 83 inches wide.