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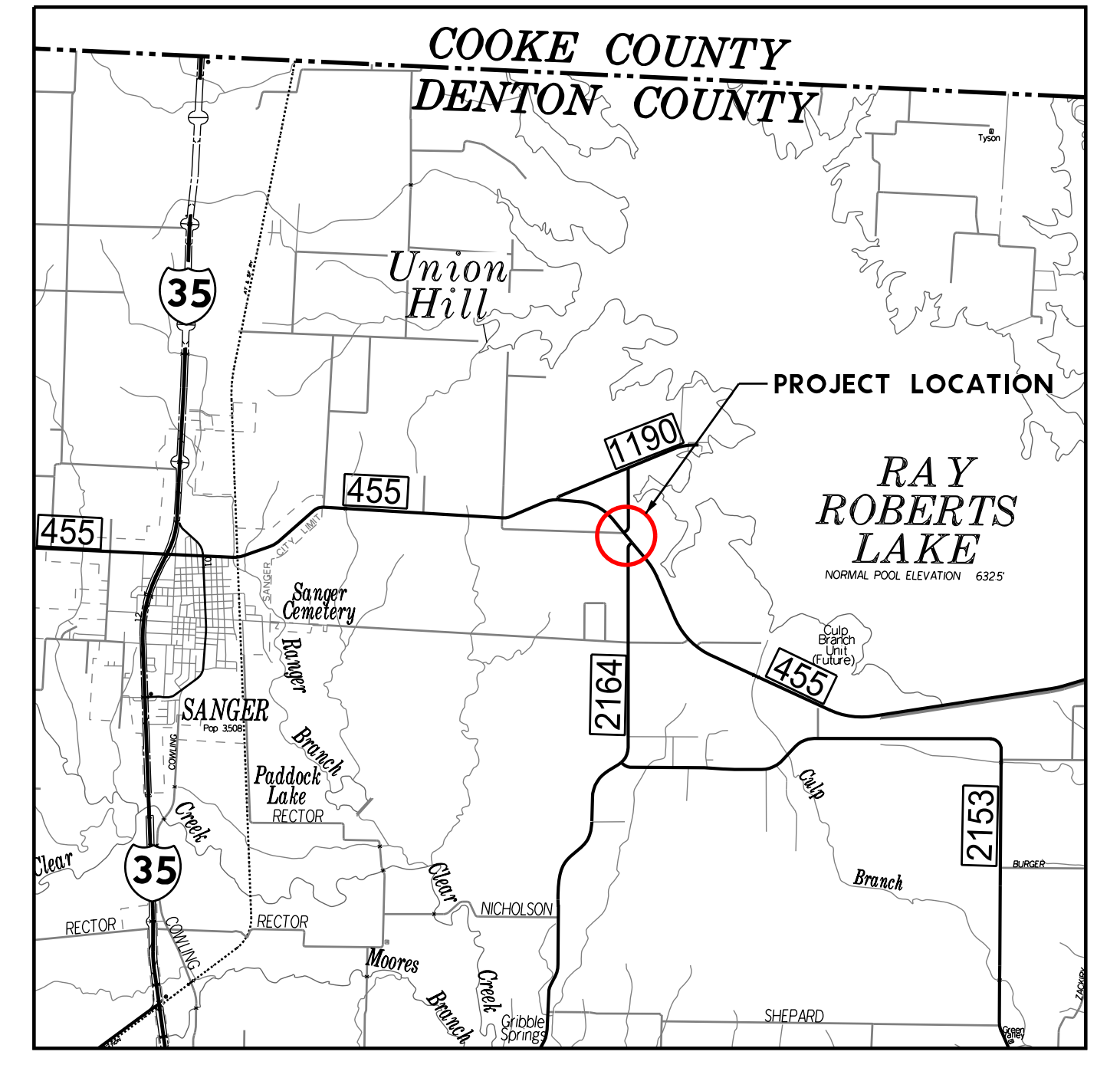
Texas Department of Transportation®
DALLAS DISTRICT
JAMES K. SELMAN, P.E., DALLAS DISTRICT ENGINEER
DESIGN SCHEMATIC
CSJ NO. 0816-02-079
DENTON COUNTY
F.M. 455 AT UNION HILL ROAD

FACILITY:	FM 455	N FM 2164	S FM 2164	UNION HILL
FUNCTIONAL CLASS:	MINOR ARTERIAL	MINOR COLLECTOR	MAJOR COLLECTOR	LOCAL ROAD
FROM:	STA 32+39.00	STA 10+00.00	STA 10+84.00	STA 2+56.00
TO:	STA 54+61.00	STA 16+25.00	STA 18+00.00	STA 10+00.00
LENGTH:	0.42 MI	0.12 MI	0.14 MI	0.14 MI

POSTED / DESIGN SPEED		AVG. DAILY TRAFFIC
F.M. 455	55/55 mph	3350 (2014)
(NORTH) F.M. 2164	60*/40 mph	116 (2014)
(SOUTH) F.M. 2164	60/40 mph	947 (2014)
UNION HILL ROAD	30/40 mph	N/A

* ASSUMED (NOT POSTED)

ROLL 1 OF 1
MAY, 2016



LOCATION MAP
NOT TO SCALE

PRELIMINARY
FOR INTERIM REVIEW ONLY. NOT FOR PERMITTING, BIDDING, OR CONSTRUCTION.
Prepared by or under the direct supervision of
LTRA, TBPE Reg No. F-782
JAMES A. LANG, P.E. 839953
MAY, 2016

DRAFT SCHEMATIC
Preliminary, Subject to Change

LINA T. RAMEY & ASSOCIATES, INC.
3320 BELT LINE RD.
Farmers Branch, Texas 75234
FIRM REGISTRATION NO. F-782

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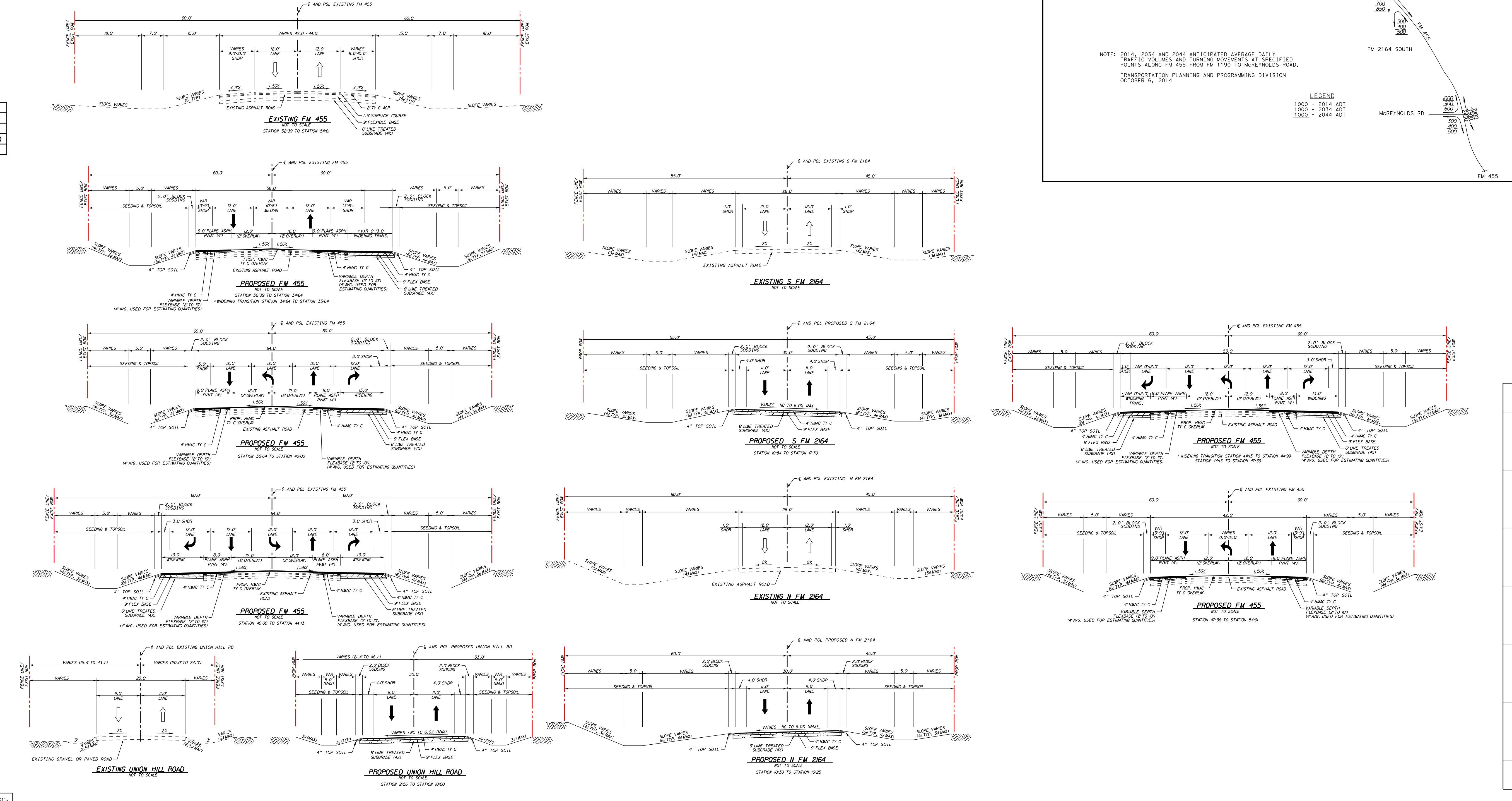
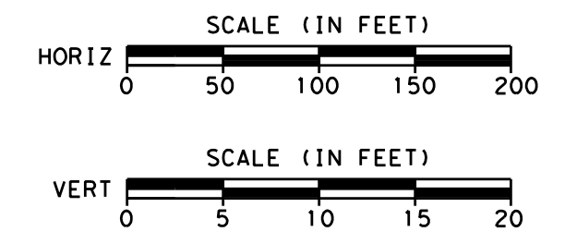
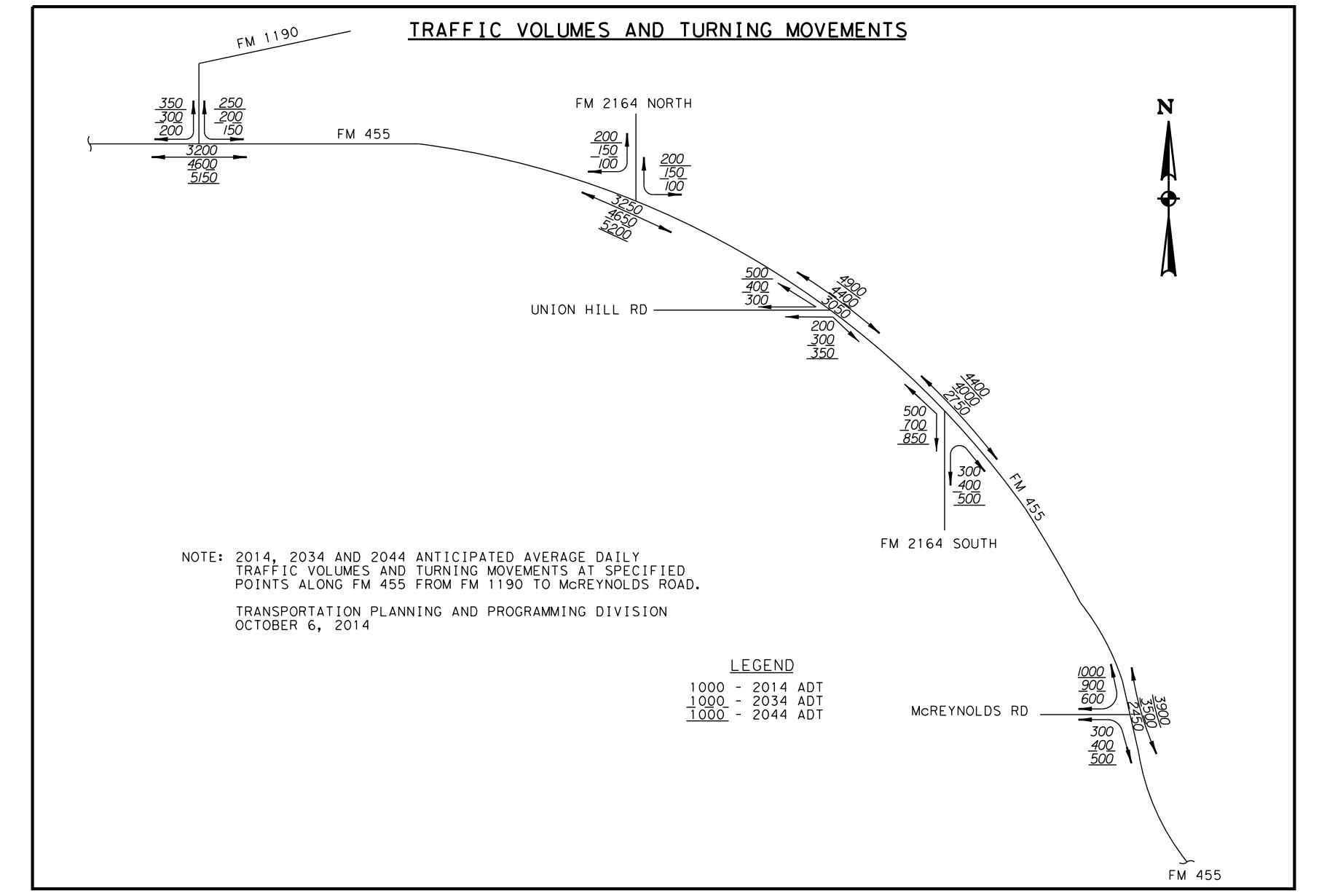
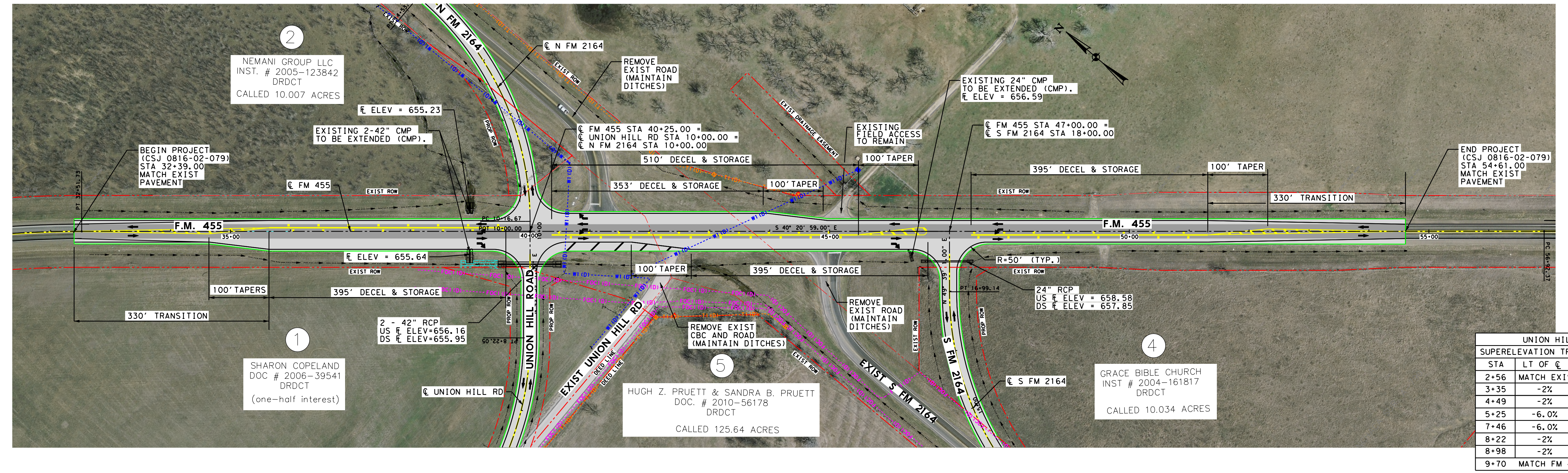
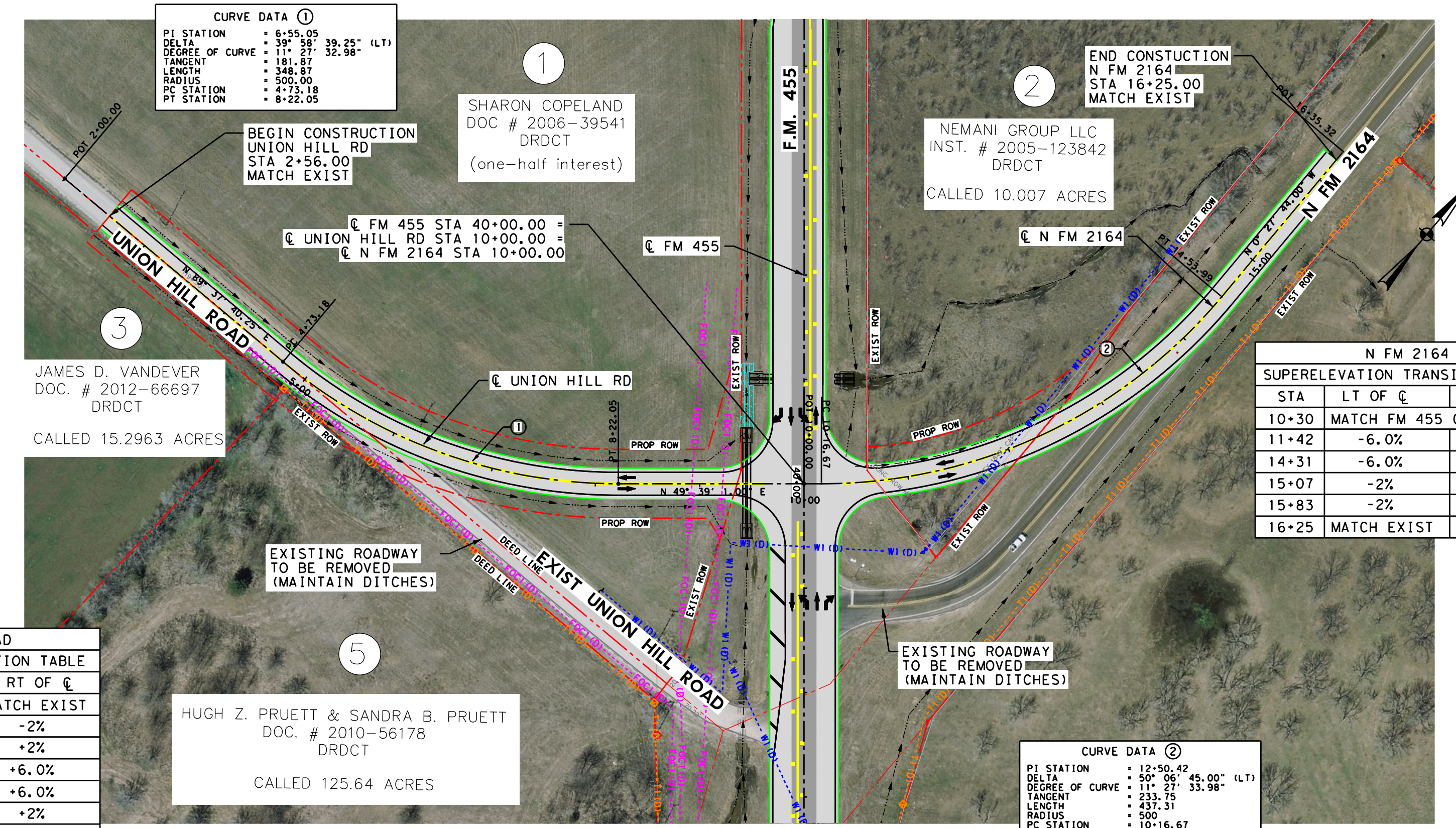


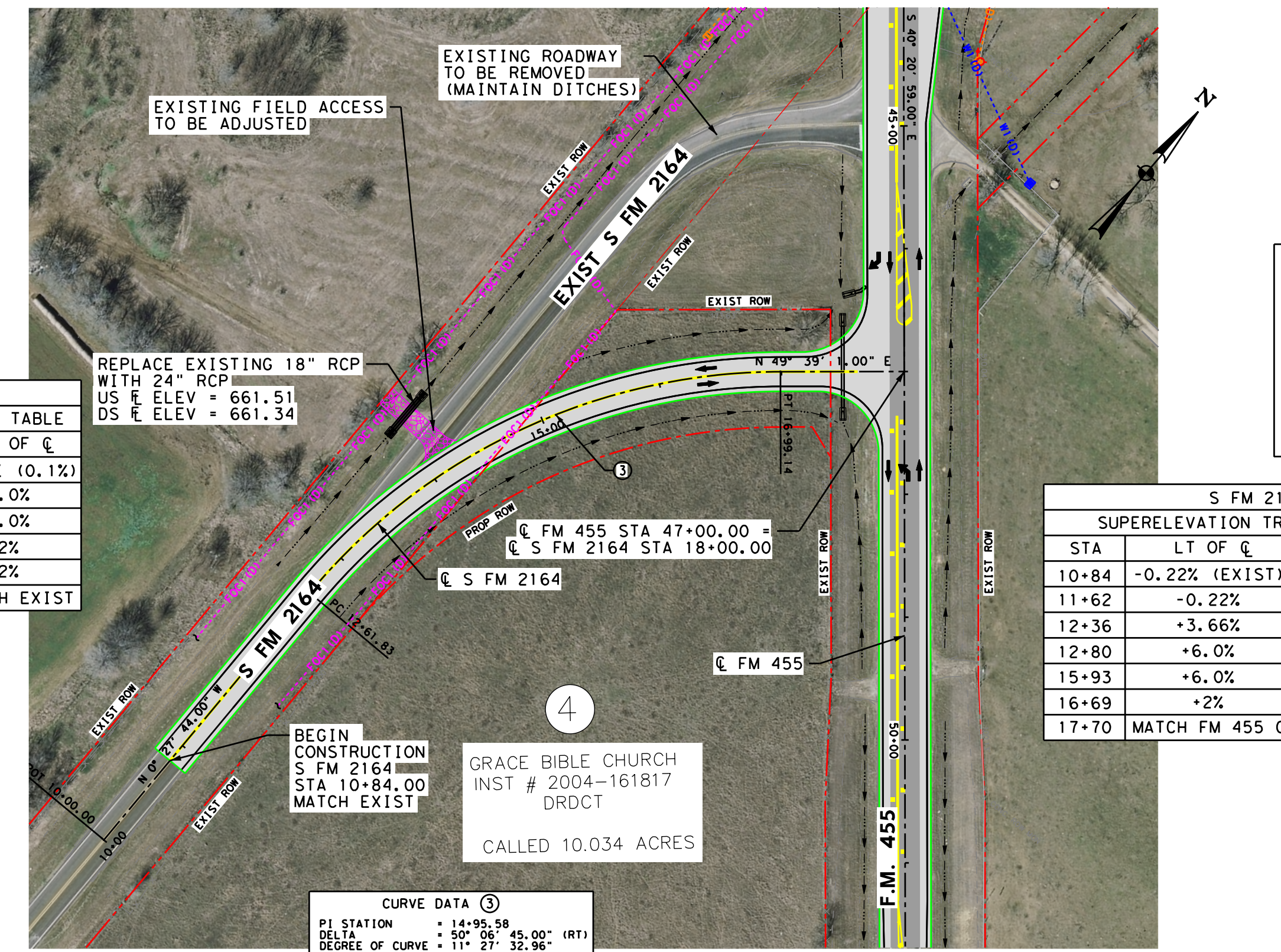








UNION HILL ROAD		
SUPERELEVATION TRANSITION TABLE		
STA	LT OF ℄	RT OF ℄
2+56	MATCH EXIST	MATCH EXIST
3+35	-2%	-2%
4+49	-2%	+2%
5+25	-6.0%	+6.0%
7+46	-6.0%	+6.0%
8+22	-2%	+2%
8+98	-2%	-2%
9+70	MATCH FM 455 GRADE (0.1%)	



N FM 2164		
SUPERELEVATION TRANSITION TABLE		
STA	LT OF ℄	RT OF ℄
10+30	MATCH FM 455 GRADE (0.1%)	
11+42	-6.0%	+6.0%
14+31	-6.0%	+6.0%
15+07	-2%	+2%
15+83	-2%	-2%
16+25	MATCH EXIST	MATCH EXIST

S FM 2164		
SUPERELEVATION TRANSITION TABLE		
STA	LT OF ℄	RT OF ℄
10+84	-0.22% (EXIST)	-3.66% (EXIST)
11+62	-0.22%	-3.66%
12+36	+3.66%	-3.66%
12+80	+6.0%	-6.0%
15+93	+6.0%	-6.0%
16+69	+2%	-2%
17+70	MATCH FM 455 GRADE (0.1%)	

SHADING LEGEND

▩	OVERLAY AND TACK COAT
▨	NEW PAVEMENT/WIDENING

PLAN LEGEND

—·—·	PROPOSED RIGHT-OF-WAY
——- - -	EXISTING RIGHT-OF-WAY
—···→ —···	DITCH FLOW
——	PROPOSED EDGE OF SHOULDER/ PROPOSED EDGE OF PAVEMENT
←	DIRECTION OF TRAVEL

NOTES:

1. EXISTING FEATURES ARE BASED ON TOPO FIELD SURVEY PERFORMED BY LTRA MAY, 2014.
2. TRAFFIC VOLUMES PROVIDED BY TXDOT AREA OFFICE. (AUG, 2014). ADDITIONAL TRAFFIC ANALYSIS FOR SIGNAL WARRANTS PROVIDED BY SAVANT GROUP TRAFFIC STUDY PERFORMED SEPT, 2013.
3. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.

UTILITY LEGEND

TELEPHONE	----T1(D)-------T1(D)-----	CENTURYLINK
FIBER OPTIC	---FOC1(D)-------FOC1(D)--	ATT
WATER	-------W1(D)-------W1(D)--	GREEN SPRINGS WATER SUPPLY CO

~	OUT OF SCOPE
⋈	WATER VALVE
▣	WATER METER
○	POWER POLE
▨	TELEPHONE PEDESTAL

QUALITY LEVEL LEGEND

— ——WW1—— –	QUALITY LEVEL "B"
-------WW1(D)------	QUALITY LEVEL "D"
-------WW1(C)------	QUALITY LEVEL "C"
– —●—WW1—— -	QUALITY LEVEL "A"

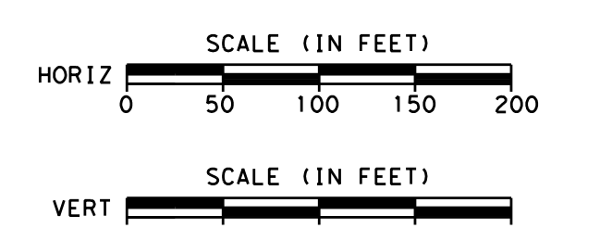
TYPICAL FOR ALL UTILITIES

Quality Level "D":
Information derived from existing records and/or oral recollections.

Quality Level "C":
Information obtained by surveying and plotting visible above-ground utility features and by using professional judgment in correlating this information to quality level D information.

Quality Level "B":
Information obtained through the application of appropriate surface geophysical methods to determine the existence and approximate horizontal position of subsurface utilities (aka Designating).

Quality Level "A":
Precise horizontal and vertical location of utilities obtained by the actual exposure and subsequent measurement of subsurface utilities, usually at a specific point (aka Locating).



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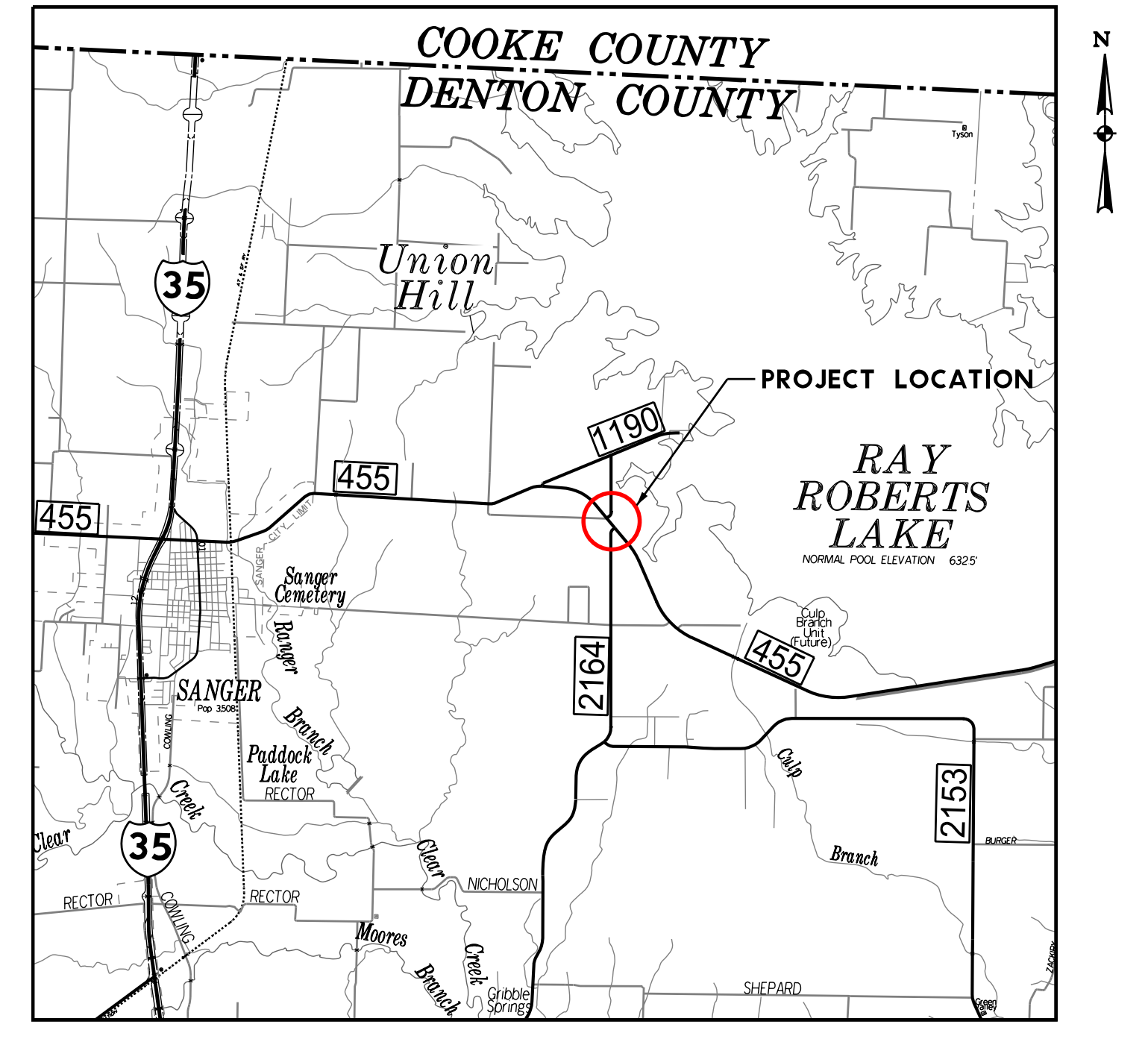

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