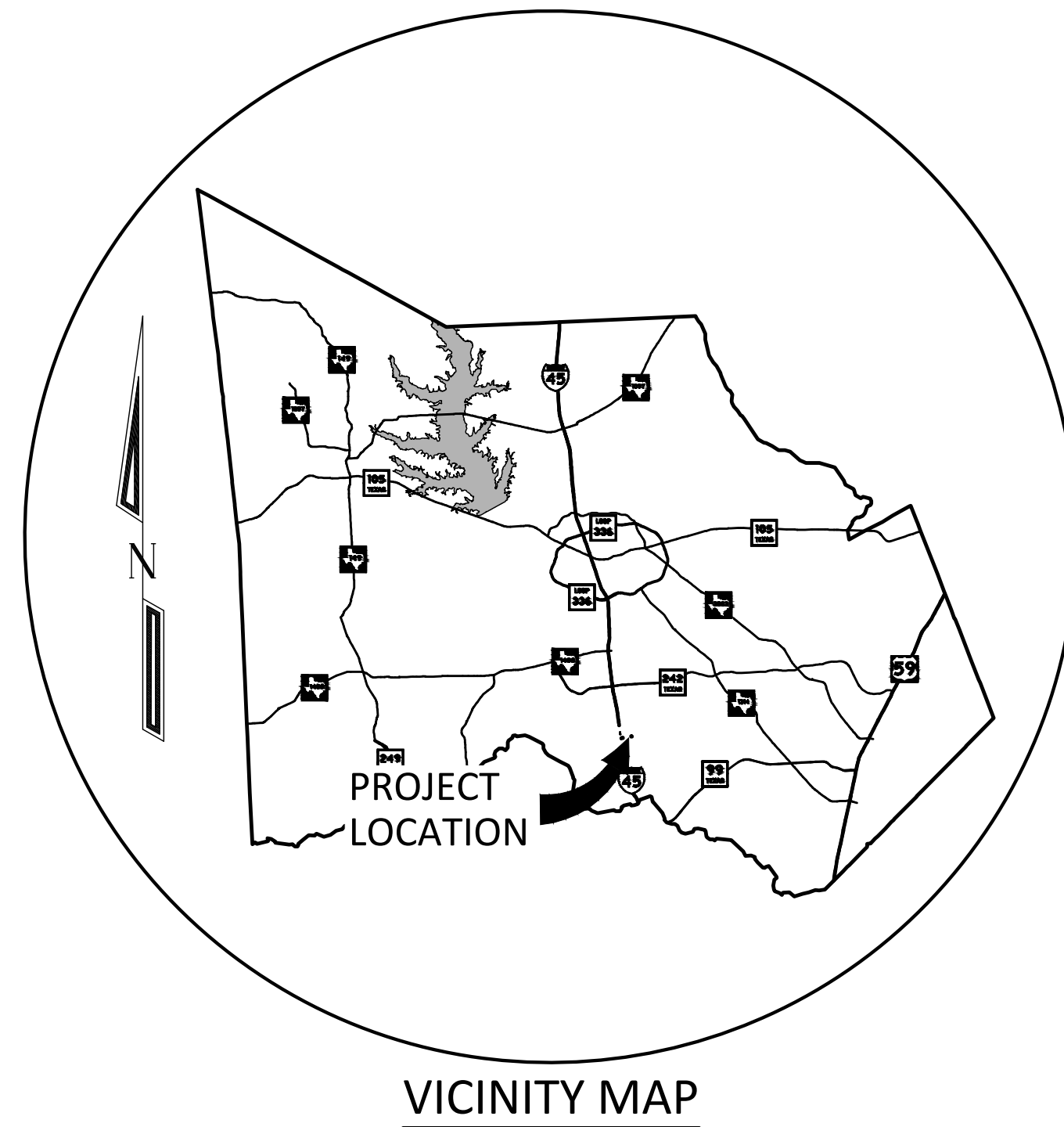
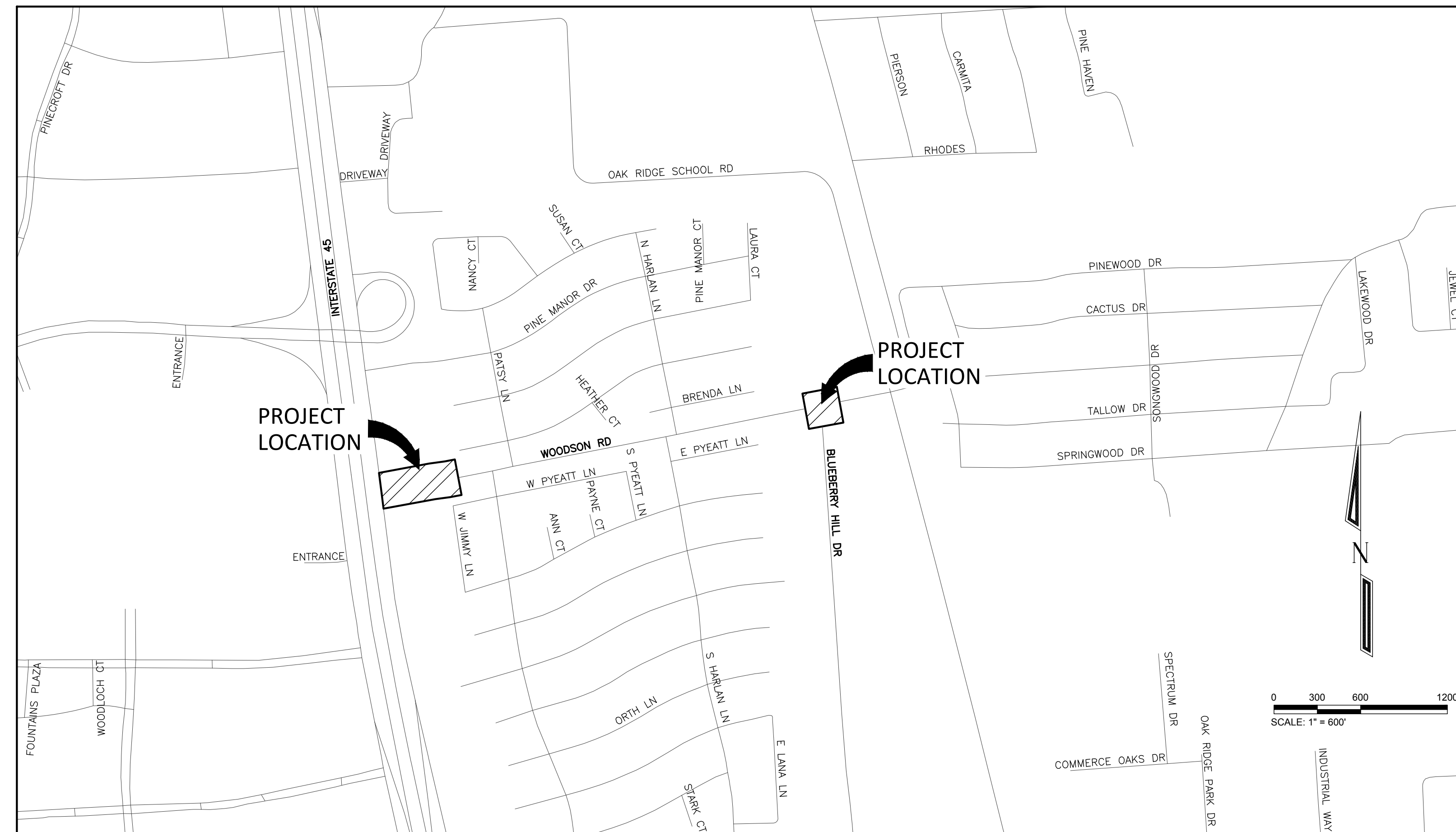


CONSTRUCTION DRAWINGS FOR
WOODSON ROAD & BLUEBERRY HILL
DRIVE ROADWAY IMPROVEMENTS
OAK RIDGE NORTH, TEXAS
MARCH 2021



VICINITY MAP

SCALE : NONE
MONTGOMERY COUNTY KEY
MAP PANEL NO. 252- E & F



SHEET INDEX	
SHEET NO.	SHEET TITLE
1	COVER
2	CONSTRUCTION NOTES
3	SURVEY AND CONTROL 1 OF 2
4	SURVEY AND CONTROL 2 OF 2
5	OVERALL PROJECT LAYOUT
6	DEMOLITION PLAN
7	P&P WOODSON ROAD IMPROVEMENTS STA 0+00 TO 5+70
8	PLAN BLUEBERRY HILL DRIVE IMPROVEMENTS
9	WOODSON ROAD CROSS SECTIONS STA 0+60 TO 4+00
10	WOODSON ROAD CROSS SECTIONS STA 4+30 TO 5+50
11	WOODSON ROAD STRIPING AND SIGNAGE PLAN
12	TRAFFIC CONTROL PLAN
13	TEMPORARY EROSION CONTROL PLAN
14	MISCELLANEOUS DETAILS
15	OAK RIDGE NORTH STORM DETAILS
16	TXDOT DETAILS 1 OF 2
17	TXDOT DETAILS 2 OF 2

CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS, AND CONFIRM POINTS OF CONNECTIONS TO EXISTING IMPROVEMENTS, INCLUDING CONFIRMATION OF ELEVATIONS AND GRADES OF EXISTING FACILITIES AND UTILITIES PRIOR TO STARTING ANY GRADING, PAVING OR UTILITY INSTALLATION. VERIFICATION OF LOCATIONS AND FUNCTIONS OF EACH EXISTING STRUCTURE OR SYSTEM AND ALL EXISTING UTILITY GRADES AND INVERT ELEVATIONS IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY DISCREPANCIES OR CONFLICTS OR ANY CONTACTS OR ENCROACHMENTS BETWEEN EXISTING FIELD CONDITIONS AND ENGINEERING PLANS MUST BE RESOLVED PRIOR TO STARTING EXCAVATION OR SETTING ANY GRAVITY SEWER (STORM OR SANITARY) AND APPURTENANCES.

CITY ENGINEER
CITY OF OAK RIDGE NORTH
SIGNATURE VALID FOR 1 (ONE) YEAR

DATE _____

BLEYL ENGINEERING

MANNING • DESIGN • MANAGEMENT
1100 Nugent Street, Conroe, TX 77301
Texas Firm Registration No. F-678
Tel. 936-441-7833 Fax 936-760-3833
www.bleyengineering.com

AUSTIN	BRYAN	CONROE	HOUSTON
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COVER

**WOODSON ROAD & BLUEBERRY HILL
DRIVE ROADWAY IMPROVEMENTS**

OAK RIDGE NORTH, TEXAS



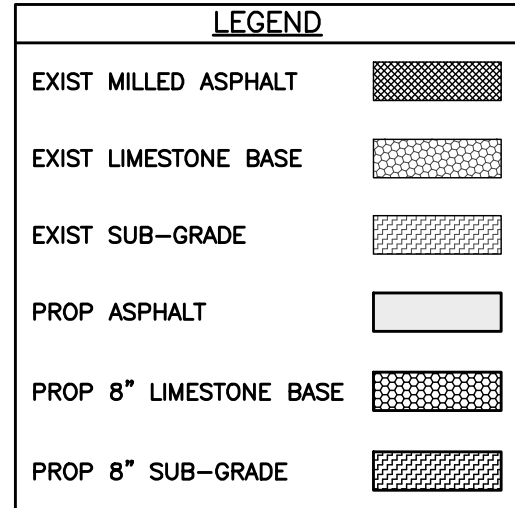
3/11/2021

DESIGN: CARL RUSHING	
CAD: WSW	RVW: JMS
PROJECT NO: 12700	
SHEET: 1	OF: 17

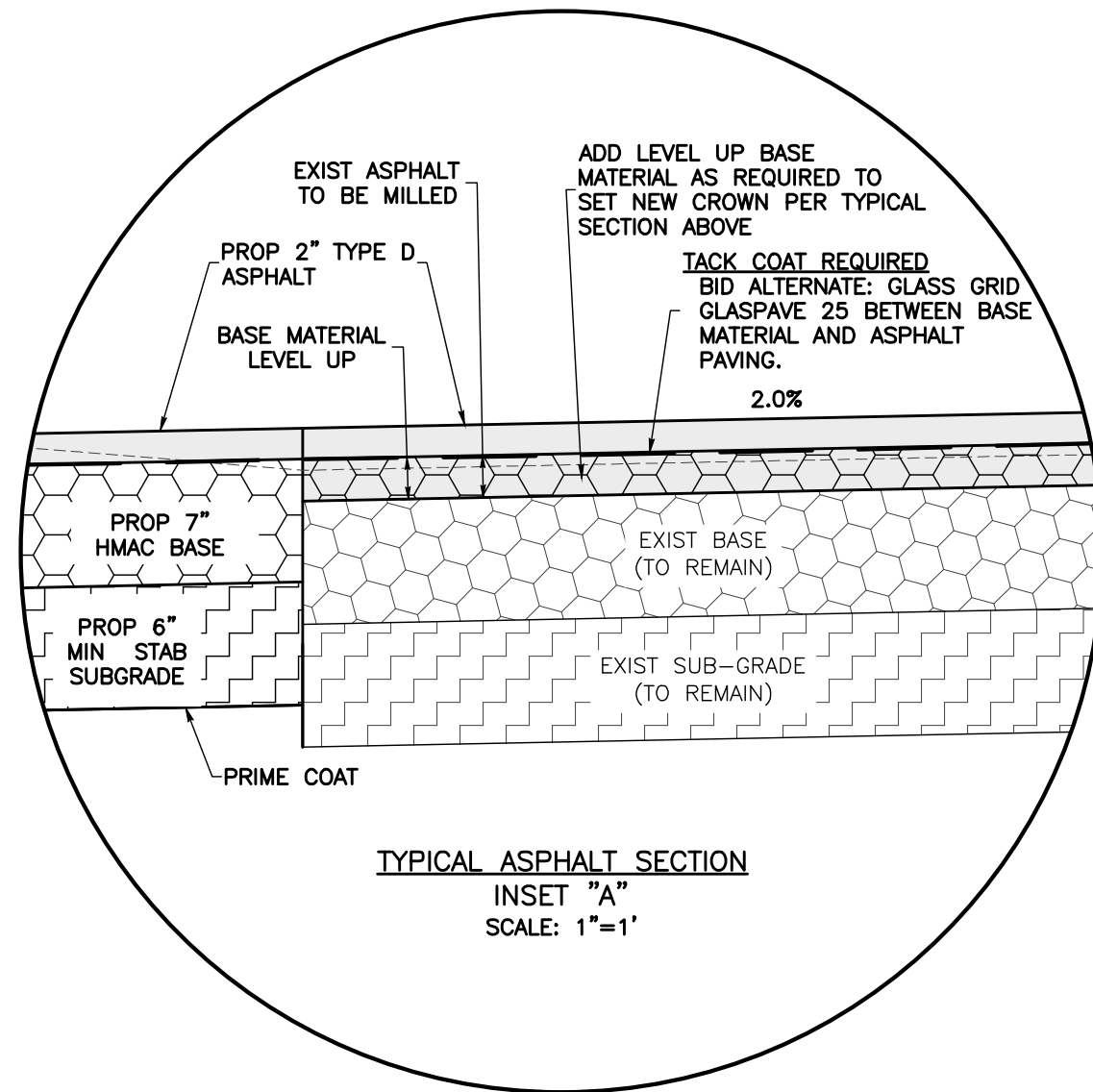
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PREPARED FOR:

CITY OF OAK RIDGE NORTH
27424 ROBINSON ROAD
OAK RIDGE NORTH,
TEXAS 77385
281-292-4648



ASPHALT PAVING SHALL
CONFORM TO THE CITY OF OAK
RIDGE NORTH ASPHALT PAVING
DETAIL THIS SHEET



TYPICAL		ABBREVIATIONS	
AE	ACCESS EASEMENT	MEP	MATCH EXISTING PAVEMENT
ARV	AIR RELEASE VALVE	MAX	MAXIMUM
ASPH	ASPHALT	MIN	MINIMUM
BC	BACK OF CURB	MCDR	MONTGOMERY COUNTY DEED RECORDS
BFE	BASE FLOOD ELEVATION	MCMR	MONTGOMERY COUNTY MAP RECORDS
BL	BUILDING LINE	MCRPR	MONTGOMERY COUNTY REAL PROPERTY RECORDS
BOV	BLOW-OFF VALVE	NG	NATURAL GROUND
CL	CENTERLINE	OCEW	ON CENTER EACH WAY
CLD	CENTERLINE OF DITCH	OFST	OFFSET
CONC	CONCRETE	OHE	OVERHEAD ELECTRIC
CSS	CEMENT STABILIZED SAND	OPR	OFFICIAL PUBLIC RECORD
DBL	DOUBLE	PVMT	PAVEMENT
DGFL	DEPRESSED GUTTER FLOW LINE	POB	POINT OF BEGINNING
DIA	DIAMETER	POC	POINT OF COMMENCEMENT
DA	DRAINAGE AREA	PVI	POINT OF VERTICAL INTERSECTION
DE	DRAINAGE EASEMENT	PVC	POLYVINYL CHLORIDE PIPE
DWY	DRIVEWAY	PP	POWER POLE
EA	EACH	PROP	PROPOSED
ESMT	EASEMENT	RCP	REINFORCED CONCRETE PIPE
EOP	EDGE OF PAVEMENT	RED	REDUCER
EXIST OR EX	EXISTING	RT	RIGHT
FC	FACE OF CURB	ROW	RIGHT OF WAY
FF	FINISHED FLOOR	S	SLOPE
FG	FINISHED GRADE	SAN	SANITARY SEWER
FH	FIRE HYDRANT	SHT	SHEET
FL	FLOW LINE	SHLDR	SHOULDER
FND	FOUND	SIGN	SN OR SGN
FM	FORCE MAIN	SNGL	SINGLE
FP	FLOODPLAIN	SF	SQUARE FEET
FW	FLOODWAY	STA	STATION
GV	GATE VALVE	STM	STORM SEWER
GV&B	GATE VALVE AND BOX	SY	SQUARE YARDS
GFL	GUTTER FLOW LINE	TB OR TOB	TOP OF BANK
GUY	GUY WIRE	TEMP	TEMPORARY
HB	HIGH BANK	TC	TOP OF CURB
HDPE	HIGH DENSITY POLYETHYLENE PIPE	TG	TOP OF GRATE
HMAC	HOT MIX ASPHALT CONCRETE	TP	TOP OF PAVEMENT
INT	INTERSECTION	TRC	TOP OF RIBBON CURB
IP	IRON PIPE	TW	TOP OF SIDEWALK
IR	IRON ROD	TPE	TREE PRESERVATION EASEMENT
JB	JUNCTION BOX	TPZ	TREE PRESERVATION ZONE
LT	LEFT	TYP	TYPICAL
LF	LINEAR FEET	UE	UTILITY EASEMENT
MH	MANHOLE	WTR	WATER LINE
ME	MATCH EXISTING ELEVATION	WSE	WATER SURFACE ELEVATION

TEXAS 811	811
ENTERGY	(800) 368-3749
RELIANT ENERGY	(866) 222-7100

CONTRACTOR SHALL USE CAUTION DURING CONSTRUCTION IN THE VICINITY OF ALL OVERHEAD ELECTRIC. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS IN REGARDS TO CLEARANCES AND CONSTRUCTION ACTIVITIES.

CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS, AND CONFIRM POINTS OF CONNECTIONS TO EXISTING IMPROVEMENTS, INCLUDING CONFIRMATION OF ELEVATIONS AND GRADES OF EXISTING FACILITIES AND UTILITIES PRIOR TO STARTING ANY GRADING, PAVING OR UTILITY INSTALLATION. VERIFICATION OF LOCATIONS AND FUNCTIONS OF EACH EXISTING STRUCTURE OR SYSTEM AND ALL EXISTING UTILITY GRADES AND INVERT ELEVATIONS IS THE CONTRACTOR'S RESPONSIBILITY. NOTIFY THE ENGINEER OF ANY DISCREPANCIES IMMEDIATELY. ANY CONFLICTS OR ERRORS BETWEEN EXISTING FIELD CONDITIONS AND ENGINEERING PLANS MUST BE RESOLVED PRIOR TO STARTING EXCAVATION OR SETTING ANY GRAVITY SEWER (STORM OR SANITARY) AND APPURTENANCES.

THE DESIGN OF THE PROJECT WILL HAVE NO NEGATIVE EFFECT ON THIS DEVELOPMENT OR ON THE SURFACE WATER ELEVATION AND/OR THE ADJACENT PROPERTIES. NOR WILL THE DESIGN UNREASONABLY:

- A) IMPEDE THE NATURAL FLOW OF SURFACE WATERS FROM HIGHER ADJACENT PROPERTIES.
- B) ALTER THE NATURAL FLOW OF SURFACE WATERS SO AS TO DISCHARGE THEM UPON ADJACENT PROPERTIES AT A MORE RAPID RATE, IN GREATER QUANTITIES OR IN A DIFFERENT LOCATION THAN WOULD RESULT FROM THE PRE DEVELOPMENT NATURAL FLOW OF SURFACE WATERS;
- C) COLLECT OR CONCENTRATE THE FLOW OF SURFACE WATERS FOR DISCHARGE INTO AN EXISTING NATURAL OR ARTIFICIAL DRAINAGE WAY IN A MANNER WHICH EXCEEDS THE CAPACITY OF THE RECEIVING WATER COURSE.

1. THE CONTRACTOR SHALL ADHERE TO ALL APPLICABLE STANDARD DETAILS AND SPECIFICATIONS FOR PROPOSED IMPROVEMENTS.
2. REVISIONS TO THESE ENGINEERING PLANS MUST BE AUTHORIZED BY BUELL ENGINEERING PRIOR TO CONSTRUCTION. BUELL ENGINEERING - (936) 441-7833
3. THE CONTRACTOR SHALL:
 - a. NOTIFY BUELL ENGINEERING (936-441-7833) AND ALL OTHER PERTINENT AGENCIES 48 HRS BEFORE STARTING WORK.
 - b. NOTIFY ALL APPROPRIATE UTILITY COMPANIES 48 HOURS PRIOR TO ANY EXCAVATION.
 - c. NOTIFY THE ENGINEER AND ALL PERTINENT AGENCIES OF ALL DESIRED FIELD CHANGES. THE ENGINEER'S APPROVAL MAY BE REQUIRED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY AND SAFETY OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MATERIALS AND WORKSMANSHIP NECESSARY FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STORAGE OF MATERIALS IN SAFE AND WORKMANLIKE MANNER TO PREVENT INJURIES DURING AND AFTER CONSTRUCTION.
5. THE CONTRACTOR SHALL ADVISE THE ENGINEER OF ANY APPARENT OR SPECIAL NEEDS TO COMPLETE THE SCOPE OF WORK INCLUDED IN THIS PROJECT. THESE MAY INCLUDE THE NEED FOR OWNER PROVIDED SERVICES SUCH AS WATER SUPPLY, ETC.
6. ACCURATE RECORDS DURING THE INSTALLED LOCATIONS OF ALL IMPROVEMENTS SHALL BE MAINTAINED DURING CONSTRUCTION.
7. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MAINTAIN ACCESS DURING THE CONSTRUCTION PERIOD. SCHEDULING OF ACTIVITIES SHOULD ENSURE ACCESS TO ALL RESTRICTED SITE. EXTENDED PERIODS OF RESTRICTED ACCESS MUST BE LIMITED.
8. THE CONTRACTOR SHALL PROTECT EXISTING MONUMENTS, YARDS, PRIVATE UTILITIES, DRIVES, CURBS, MAIL BOXES, SIGNS, IMPROVEMENTS, CULVERTS, ETC.'S FROM DAMAGE DURING CONSTRUCTION. DAMAGE DONE TO THESE ITEMS SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL MOVE AND REPLACE SUCH MOVABLE ITEMS AS MAIL BOXES, TRAFFIC CONTROL, BUSINESS SIGNS, AND STREET SIGNS AS NECESSARY FOR CONSTRUCTION, FENCES OR STRUCTURES WHICH ARE NECESSARY TO MAINTAIN ACCESS TO THE PROJECT. RECONSTRUCTED OR REPLACED TO EQUAL OR BETTER THAN ORIGINAL CONDITION.
9. AT THE END OF ALL CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL RESTORE EXISTING FACILITIES (IF PROPERTY) EQUAL TO OR BETTER THAN EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. CLEAN-UP ACTIVITIES SHALL BE COMPLETED PRIOR TO CONSTRUCTION PERIOD.
10. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO ENSURE THAT SURFACE DRAINAGE IS NOT IMPEDED BY CONSTRUCTION WORK.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PROTECTION OF CONSTRUCTION OF THE PROJECT. THE CONTRACTOR PERIOD. THIS SHALL INCLUDE ANY EROSION CONTROL MEASURES AND RE-GRADING NECESSARY TO ACHIEVE THE LINES AND GRADES SET FORTH BY THESE PLANS.
12. SIGNS, BARRICADING AND LIGHTING FOR CONSTRUCTION WITHIN HIGHWAY RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND OTHER APPLICABLE STATE AND LOCAL STANDARDS. SIGNS, BARRICADES AND LIGHTS SHALL BE KEPT ON, OPERATIONAL, AND PROPERLY POSITIONED TO ASSURE PROPER SAFETY.
13. ALL TESTING PROCEDURES USED ON THIS PROJECT SHALL CONFORM TO THE TCEQ, AWWA, NSF OR APPLICABLE STANDARDS. THE TESTING EXPENSE SHALL BE BORNE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED.
14. THE CONTRACTOR SHOULD BE AWARE THAT THERE ARE OVERHEAD AND UNDERGROUND ELECTRICAL, TELEPHONE, ETC. LINES WITHIN THE PROJECT SITE. THE CONTRACTOR AND HIS PERSONNEL SHALL EXERCISE CARE AROUND THESE LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE PERSONNEL. ANY DAMAGE SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
15. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES WITH FACILITIES IN THE PROJECT LOCATION NO LESS THAN 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL PROVIDE ADEQUATE PROVISIONS FOR PROTECTING EXISTING FACILITIES SHOULD BE EMPLOYED.
16. ALL UNDERGROUND UTILITY LINES, SIZES, AND MATERIAL TYPES SHOWN ON THE PLANS ARE FOR THE PURPOSE OF MAKING THE CONTRACTOR AWARE OF THESE LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR GUARANTEEING THE ACCURACY THEREOF. ALSO, THE LOCATIONS OF SOME EXISTING UTILITY LINES ARE NOT KNOWN AND THE CONTRACTOR SHALL VERIFY THE LOCATION, SIZE AND MATERIAL TYPES OF ALL UNDERGROUND LINES PRIOR TO CONSTRUCTION. ALL UTILITY LINES AND ALIGNMENT OF THE PROPOSED MAIN LINES ARE SUBJECT TO MODIFICATION PENDING THE ESTABLISHMENT OF EXISTING UTILITY LOCATIONS.
17. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AT ALL POINTS OF CROSSINGS TO DETERMINE IF ANY CONFLICTS EXIST BEFORE COMMENCING ANY CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CONFLICTS.
18. THE LATEST TCEQ REGULATIONS MUST BE FOLLOWED FOR CROSSINGS OF SANITARY SEWER MAINS AND WATER MAINS. IT IS THE INTENT THAT THE MOST ECONOMICALLY ACCEPTABLE ALTERNATIVE BE ELECTED.
19. ACTUALLY, FIELD VERIFICATION OF EXISTING UTILITY GRADES IS IMPERATIVE.
20. FINAL COVER OF INSTALLED LINES SHALL NOT BEGIN PRIOR TO OBSERVATION AND ACCEPTANCE BY THE OWNER OR ENGINEER. THE CONTRACTOR SHALL COVER THE ENGINE OWNER BY 4:00 P.M. REGARDING THE SCHEDULING OF THESE MONITORING VISITS.
21. CONNECTIONS TO EXISTING LINES SHALL INCLUDE ALL REQUIRED FITTINGS, MATERIALS REQUIRED TO MAKE A SUCCESSFUL TIE IN MEETING ALL APPLICABLE STANDARDS.
22. THE LOADING AND UNLOADING OF ALL MATERIALS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PRACTICES AND SHALL AT ALL TIMES BE PERFORMED WITH CARE TO AVOID ANY DAMAGE TO THE MATERIAL. THE CONTRACTOR SHALL LOCATE AND PROVIDE THE NECESSARY STORAGE AREAS FOR MATERIALS AND EQUIPMENT.
23. ALL MATERIALS AND EQUIPMENT SHALL BE BOTH FURNISHED AND INSTALLED UNLESS OTHERWISE NOTED.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING AND BRACING AS NECESSARY TO PROTECT WORKMEN AND EXISTING UTILITIES DURING ALL PHASES OF CONSTRUCTION AS PER OSHA REQUIREMENTS.

[illegible]

PREPARED FOR:
CITY OF OAK RIDGE NORTH
27424 ROBINSON ROAD
OAK RIDGE NORTH,
TEXAS 77385
281-292-4648

BLEYL ENGINEERING
PLANNING • DESIGN • MANAGEMENT

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00 Nugent Street, Conroe, TX 77301

www.blevlengineering.com

AUSTIN **BRYAN** **CONROE** **HOUSTON**

CONSTRUCTION NOTES

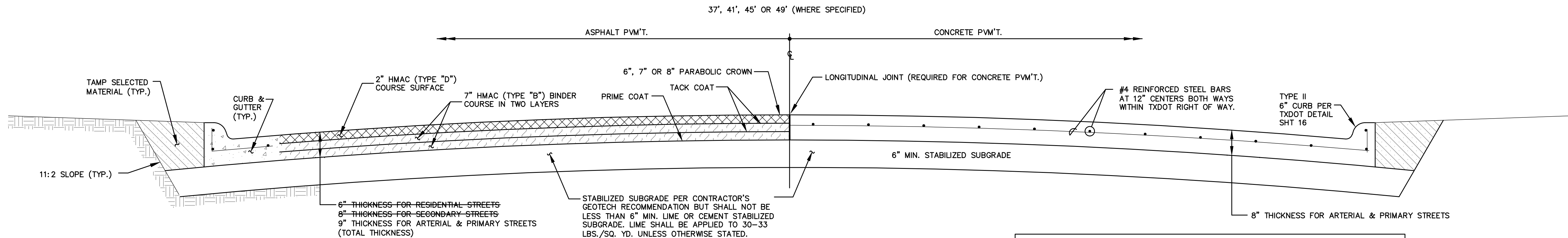
**WOODSON ROAD & BLUEBERRY HILL
DRIVE ROADWAY IMPROVEMENTS**

OAK RIDGE NORTH, TEXAS



3/11/2021

DESIGN: CARL RUSHING	
CAD: WSW	RVW: JMS
PROJECT NO: 12700	
SHEET: 2	OF: 17



1. ALL BINDER COURSE SHALL BE PLACED IN 2" LIFTS. A TRACK COAT SHALL BE APPLIED BETWEEN LIFTS IF SUBSEQUENT LIFTS ARE NOT PLACED IN THE SAME DAY. EACH LIFT SHALL BE STAGGERED 3" LONGITUDINALLY.
2. ALL CONCRETE USED FOR STREET PAVING SHALL BE CLASS "A" 3,000 PSI @ 28 DAYS WITH A MINIMUM OF FIVE SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.

CITY OF OAK RIDGE NORTH

(CONCRETE STREET SECTION MODIFIED FOR WOODSON
ROAD WIDENING TO CONFORM TO TXDOT
REQUIREMENTS)

1. CONSTRUCTION JOINTS SHALL BE PLACED AT 20' CENTERS.
2. EXPANSION JOINT PLACING SHALL NOT EXCEED 300'. THE PROPERLY SEALED EXPANSION JOINT SHALL BE PLACED AT ALL STREET INTERSECTIONS, BRIDGES AND/OR OTHER STRUCTURES.
3. A 30" LAP SHALL BE USED FOR ALL SPLICED REINFORCED BARS.
4. TIE IN TO EXISTING CONCRETE PAVING IN THE TxDOT RIGHT OF WAY SHALL BE PER TxDOT DETAIL "JCP" ON SHEET ##. FOLLOW "JUNCTION F" AS INDICATED ON THE TxDOT DETAIL.

CITY ENGINEER
CITY OF OAK RIDGE NORTH
SIGNATURE VALID FOR 1 (ONE) YEAR



LOCATION MAP
NOT TO SCALE

BENCHMARK

BL1169 ELEV.=121.76'

BRASS DISK IN CONCRETE HEADWALL, LOCATED EAST OF INTERSTATE HIGHWAY 45 AT THE SOUTHWEST CORNER OF SHERBROOK CIRCLE.

SITE TBM 'A'

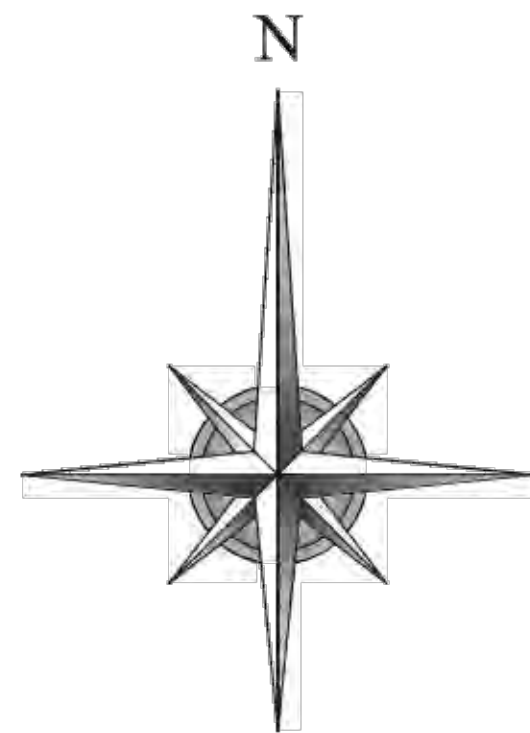
CUT SQUARE IN CONCRETE ELEV.=134.55'

CUT SQUARE IN CONCRETE LOCATED IN THE SOUTH RIGHT-OF-WAY LINE OF WOODSON DRIVE, BEING NORTH 79°27'34" EAST, A DISTANCE OF 97.10 FEET FROM AN EXISTING POWER POLE.

SITE TBM 'B'

CUT SQUARE IN CONCRETE ELEV.=139.17'

CUT SQUARE IN CONCRETE LOCATED IN THE NORTH RIGHT-OF-WAY LINE OF WOODSON DRIVE, LOCATED NORTH 36°21'43" WEST, A DISTANCE OF 57.16 FEET FROM A FOUND 5/8 INCH IRON ROD.



GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

To: Bleyl Engineering

I certify that this survey was made on the ground, that this plot correctly represents the facts found at the time of survey and that this professional service substantially conforms to the current Texas Society of Professional Surveyors Standards and Specifications for a Category 6 Survey.

Clemente Turrubartes Jr.

Clemente Turrubartes
Registered Professional Land Surveyor
Texas Registration No. 6657
Date: November 15, 2020



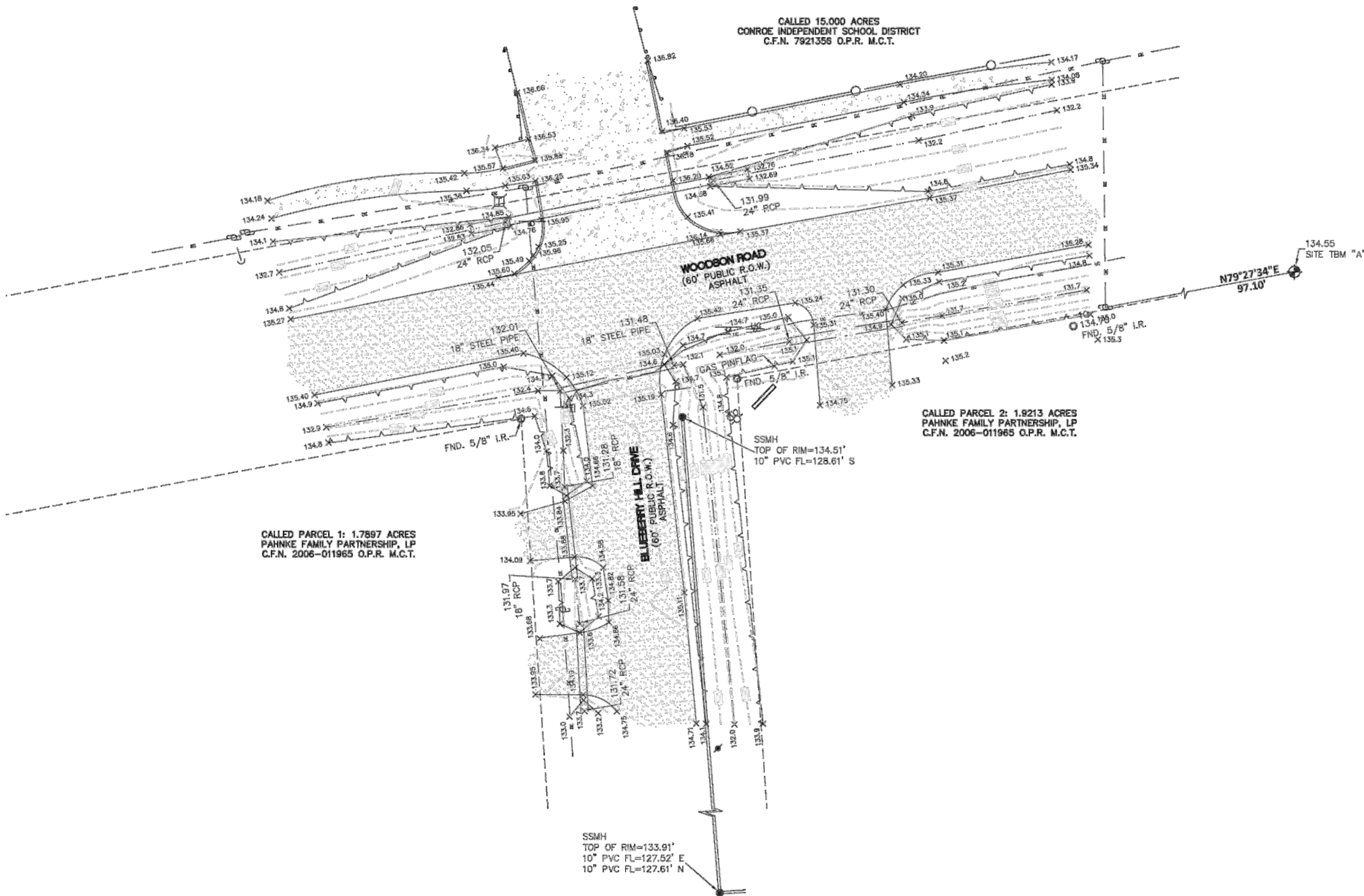
GENERAL NOTES

- The surveyor has not abstracted the site. This survey was performed without benefit of title commitment and not show all easement and encumbrances of record.
- The professional service reflected on this plot of survey is provided in connection with the transaction anticipated by the title search referenced and dated above; it is not to be used for any other purpose.
- Coordinates based on Texas State Plane Coordinates, Central Zone, NAD83.
- This original work is protected under copyright laws, Title 17 United States Code Sections 101 and 102. All violators will be prosecuted to the fullest extent of the law. This survey is being provided solely for the use of the recipients named and no license has been created, express or implied, to copy the survey except as is necessary in conjunction with the original transaction, which shall take place within thirty (30) days from the date adjacent to the signature line herein.
- Flood Statement: This site (proposed area) is situated in Zone "X" and "AE" in Montgomery County, Texas according to FEMA map number 48339C0540H dated August 18, 2014. Warning: This statement does not imply that the property and/or the structures thereon will be free from flooding or flood damage. This determination has been made by scaling the property on the referenced map and is not the result of an elevation survey. This flood statement shall not create liability on the part of the surveyor.

LEGEND / ABBREVIATIONS

WOOD FENCE	— // —
CHAINLINK FENCE	— ○ —
POWER POLE	— □ —
ELECTRIC BOX	— □ —
OVERHEAD LINE	— □ —
GRATE INLET	— □ —
STORM MANHOLE	— □ —
CLEANOUT	— □ —
WATER VALVE	— □ —
WATER METER	— □ —
FIREHYDRANT	— □ —
GAS METER	— □ —
ATT BOX	— □ —
TELEPHONE PEDESTAL	— □ —
PIPELINE MARKER (GAS)	— □ —
PROPERTY MARKER	— □ —
UNDERGROUND CABLE	— □ —
SIGN	— □ —
MAILBOX	— □ —
UNDERGROUND CABLE	— UC —
UNDERGROUND GAS	— UG —
UNDERGROUND ELECTRIC	— UE —

A	ABSTRACT
C.F.N.	CLERK'S FILE NUMBER
FND.	FOUND
I.R.	IRON ROD
O.P.R.	OFFICIAL PUBLIC RECORDS
M.C.T.	MONTGOMERY COUNTY, TEXAS
M.R.	MAP RECORDS
R.O.W.	RIGHT OF WAY



LAND SURVEYING TBPLS REG NO. 10194560
10210 GROCANS MILL ROAD, SUITE 120
HOUSTON, TEXAS 77060
T: 281-826-1208
corelandsurveying.com



100 NUGENT STREET
CONROE, TX 77301
936-441-7633

PARTIAL TOPOGRAPHIC SURVEY
OF WOODSON ROAD AND
BLUEBERRY HILL DRIVE
IN THE C. EISTERWALL SURVEY, A-191
AND MONTGOMERY COUNTY SCHOOL
LAND SURVEY, A-350
MONTGOMERY COUNTY, TEXAS

DRAWING

FIELD BK	55/7
FIELD WRK	LP
DATE	11/03/20
DRAFTING	SDR
DATE	11/08/20
CHECKED	CT
DATE	11/15/20

ISSUE

TO	DATE
CLIENT	11/15/20
CLIENT	12/07/20
COMMENTS	01/12/21

CHECK: CT

DRAWN: SDR

JOB: 20-02451U

SUR-1
SHEET 1 OF 2

BENCHMARK

BL1169
BRASS DISK IN CONCRETE HEADWALL, LOCATED EAST OF INTERSTATE HIGHWAY 45 AT THE SOUTHWEST CORNER OF SHERBROOK CIRCLE.

SITE TBM "A"

CUT SQUARE IN CONCRETE
CUT SQUARE IN CONCRETE LOCATED IN THE SOUTH RIGHT-OF-WAY LINE OF WOODSON DRIVE, BEING NORTH 79°27'34" EAST, A DISTANCE OF 97.10 FEET FROM AN EXISTING POWER POLE.

SITE TBM "B"

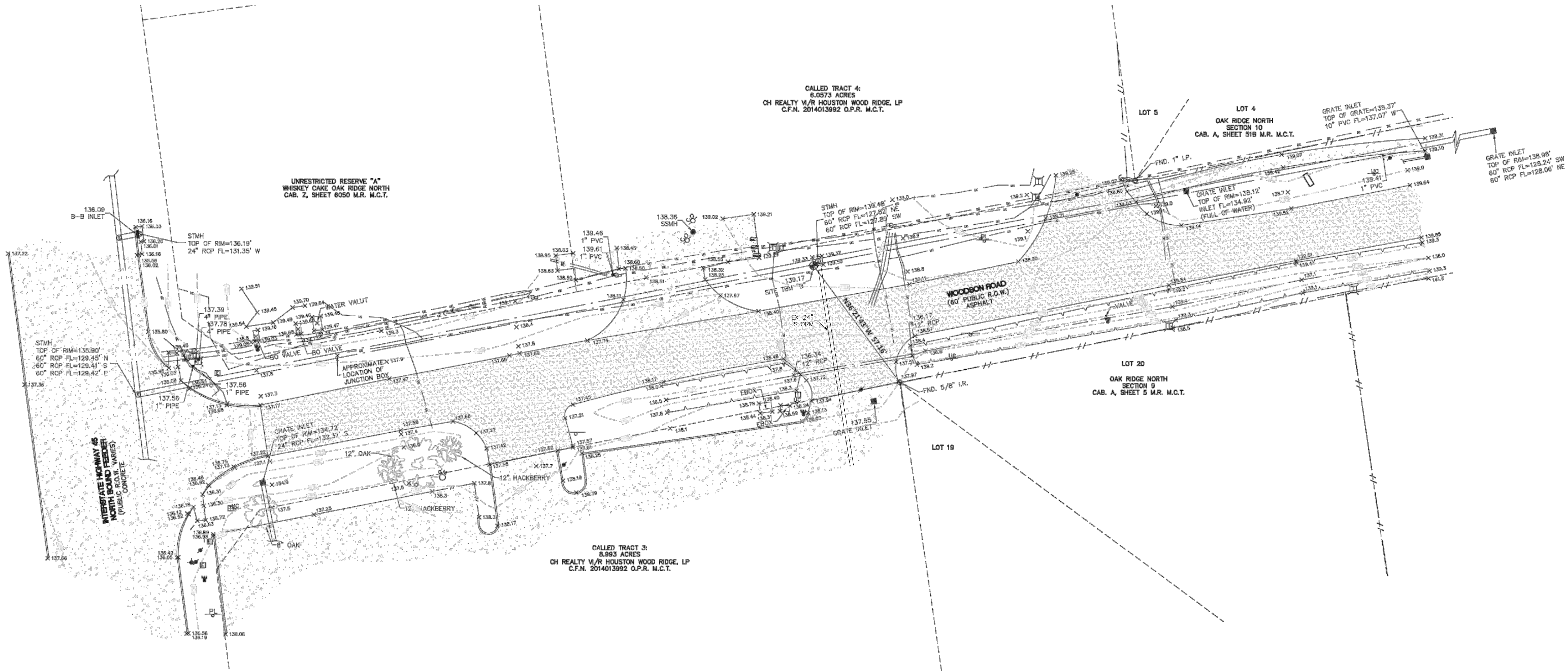
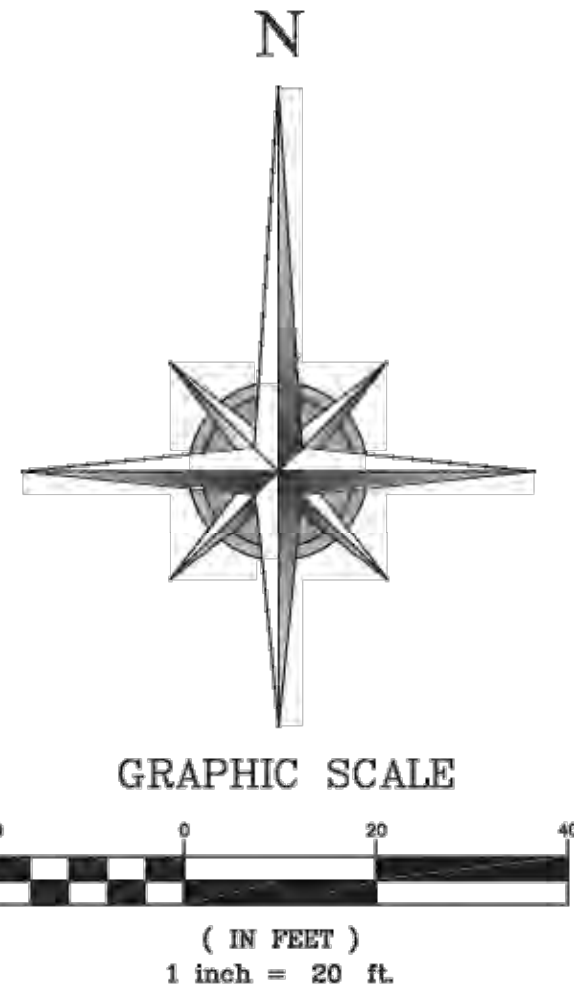
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LEGEND / ABBREVIATIONS

WOOD FENCE
CHAINLINK FENCE
POWER POLE
ELECTRIC BOX
OVERHEAD LINE
GRATE INLET
STORM MANHOLE
CLEANOUT
WATER VALVE
WATER METER
FIREHYDRANT
GAS METER
ATT BOX
TELEPHONE PEDESTAL
PIPELINE MARKER (GAS)
PROPERTY MARKER
UNDERGROUND CABLE
SIGN
MAILBOX
UNDERGROUND CABLE
UNDERGROUND GAS
UNDERGROUND ELECTRIC

A
C.F.N.
FND.
I.R.
O.P.R.
M.C.T.
M.R.
R.O.W.

ABSTRACT
CLERK'S FILE NUMBER
FOUND
IRON ROD
OFFICIAL PUBLIC RECORDS
MONTGOMERY COUNTY, TEXAS
MAP RECORDS
RIGHT OF WAY



CORE

LAND SURVEYING
10210 GORGANS MILL ROAD, SUITE 120
HOUSTON, TEXAS 77060
T: 281-898-1208
central@coreland.com

BLEYL ENGINEERING
PLANNING • DESIGN • MANAGEMENT

100 NUGENT STREET
CONROE, TX 77301
936-441-7633

PARTIAL TOPOGRAPHIC SURVEY
OF WOODSON ROAD AND
INTERSTATE 45 NORTH FEEDER ROAD
IN THE C. ESTERWALL SURVEY, A-339
MONTGOMERY COUNTY, TEXAS

DRAWING

FIELD BK	55/7
FIELD WRK	LP
DATE	11/03/20
DRAFTING	SDR
DATE	11/08/20
CHECKED	CT
DATE	11/15/20

ISSUE

TO	DATE
CLIENT	11/15/20
CLIENT	12/07/20
COMMENTS	01/12/21

CHECK: CT

DRAWN: SDR

JOB: 20-02451U

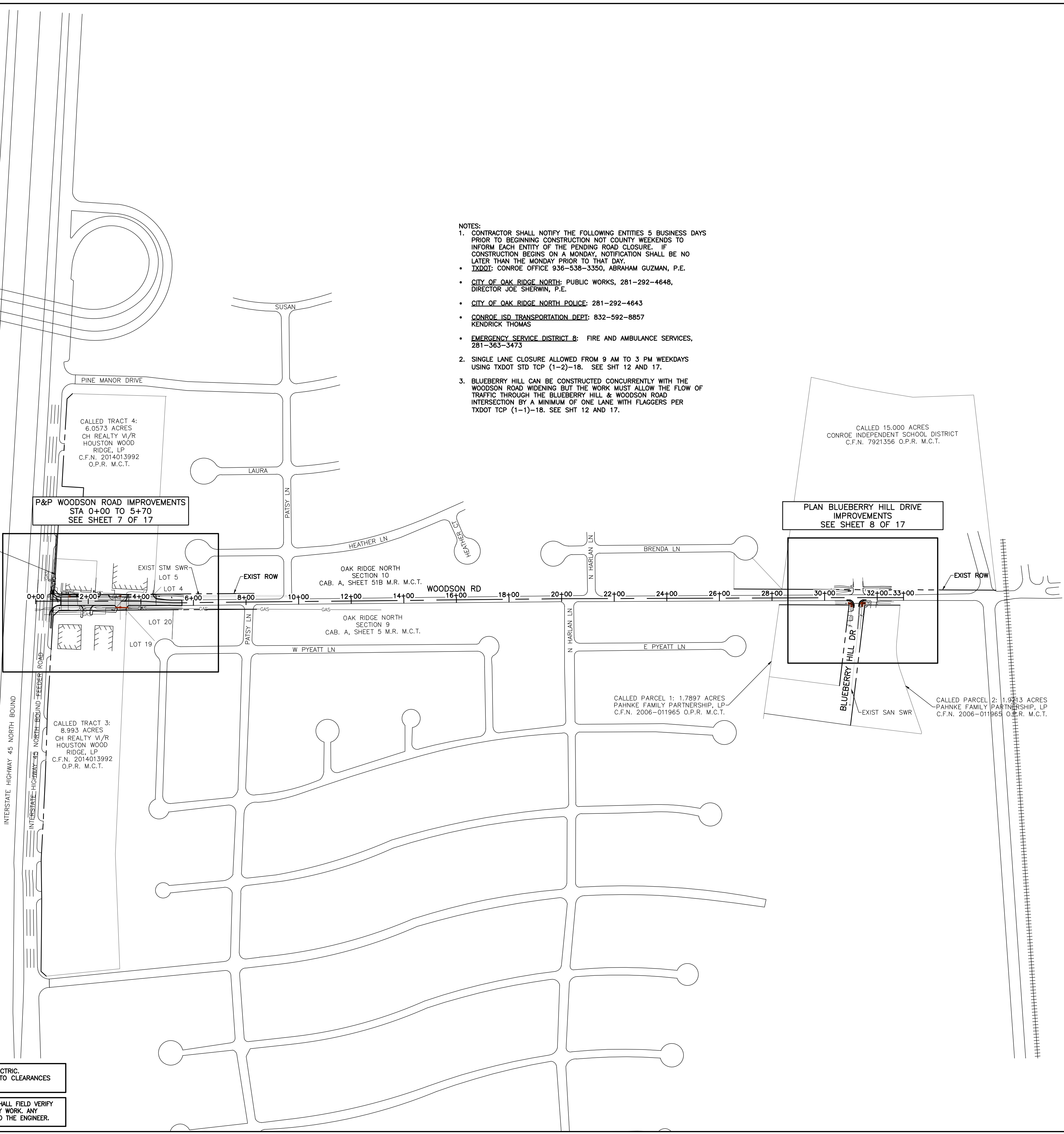
SUR-1
SHEET 2 OF 2

CONTRACTOR SHALL USE CAUTION DURING CONSTRUCTION IN THE VICINITY OF ALL OVERHEAD ELECTRIC. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS IN REGARDS TO CLEARANCES AND CONSTRUCTION ACTIVITIES.

LOCATION AND ELEVATION OF EXISTING UTILITIES SHOWN HEREIN ARE PROVIDED BY OTHERS. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES AT ALL CROSSINGS AND CONNECTION POINTS PRIOR TO ANY WORK. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER.

BLEYL ENGINEERING

3/12/2021 7:49:03 AM
F:\127005\12700 WOODSON ROAD & BLUEBERRY HILL DR. ROADWAY IMPROVEMENTS\04 CAD\CD-12700\5 OVERALL.DWG



- NOTES:
- CONTRACTOR SHALL NOTIFY THE FOLLOWING ENTITIES 5 BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION NOT COUNTY WEEKENDS TO INFORM EACH ENTITY OF THE PENDING ROAD CLOSURE. IF CONSTRUCTION BEGINS ON A MONDAY, NOTIFICATION SHALL BE NO LATER THAN THE MONDAY PRIOR TO THAT DAY.
 - TXDOT; CONROE OFFICE 936-538-3350, ABRAHAM GUZMAN, P.E.
 - CITY OF OAK RIDGE NORTH: PUBLIC WORKS, 281-292-4648, DIRECTOR JOE SHERWIN, P.E.
 - CITY OF OAK RIDGE NORTH POLICE: 281-292-4643
 - CONROE ISD TRANSPORTATION DEPT: 832-592-8857 KENDRICK THOMAS
 - EMERGENCY SERVICE DISTRICT 8: FIRE AND AMBULANCE SERVICES, 281-363-3473
 - SINGLE LANE CLOSURE ALLOWED FROM 9 AM TO 3 PM WEEKDAYS USING TXDOT STD TCP (1-2)-18. SEE SHT 12 AND 17.
 - BLUEBERRY HILL CAN BE CONSTRUCTED CONCURRENTLY WITH THE WOODSON ROAD WIDENING BUT THE WORK MUST ALLOW THE FLOW OF TRAFFIC THROUGH THE BLUEBERRY HILL & WOODSON ROAD INTERSECTION BY A MINIMUM OF ONE LANE WITH FLAGGERS PER TXDOT TCP (1-1)-18. SEE SHT 12 AND 17.

OVERALL PROJECT LAYOUT

WOODSON ROAD & BLUEBERRY HILL DRIVE ROADWAY IMPROVEMENTS

OAK RIDGE NORTH, TEXAS

BLEYL ENGINEERING

PLANNING • DESIGN • MANAGEMENT
100 Nugent Street, Conroe, TX 77301
Texas Firm Registration No. F-678
Tel. 936-441-7833 Fax 936-760-3833
www.bleylengineering.com

AUSTIN BRYAN CONROE HOUSTON

3/11/2021

DESIGN: CARL RUSHING
CAD: WSW RWV: JMS
PROJECT NO: 12700
SHEET: 5 OF: 17

PREPARED FOR:

CITY OF OAK RIDGE NORTH
27424 ROBINSON ROAD
OAK RIDGE NORTH,
TEXAS 77385
281-292-4648

DATE

BY

APP

COMMENT

REVISIONS

REV

DATE

BY

APP

COMMENT

CITY ENGINEER

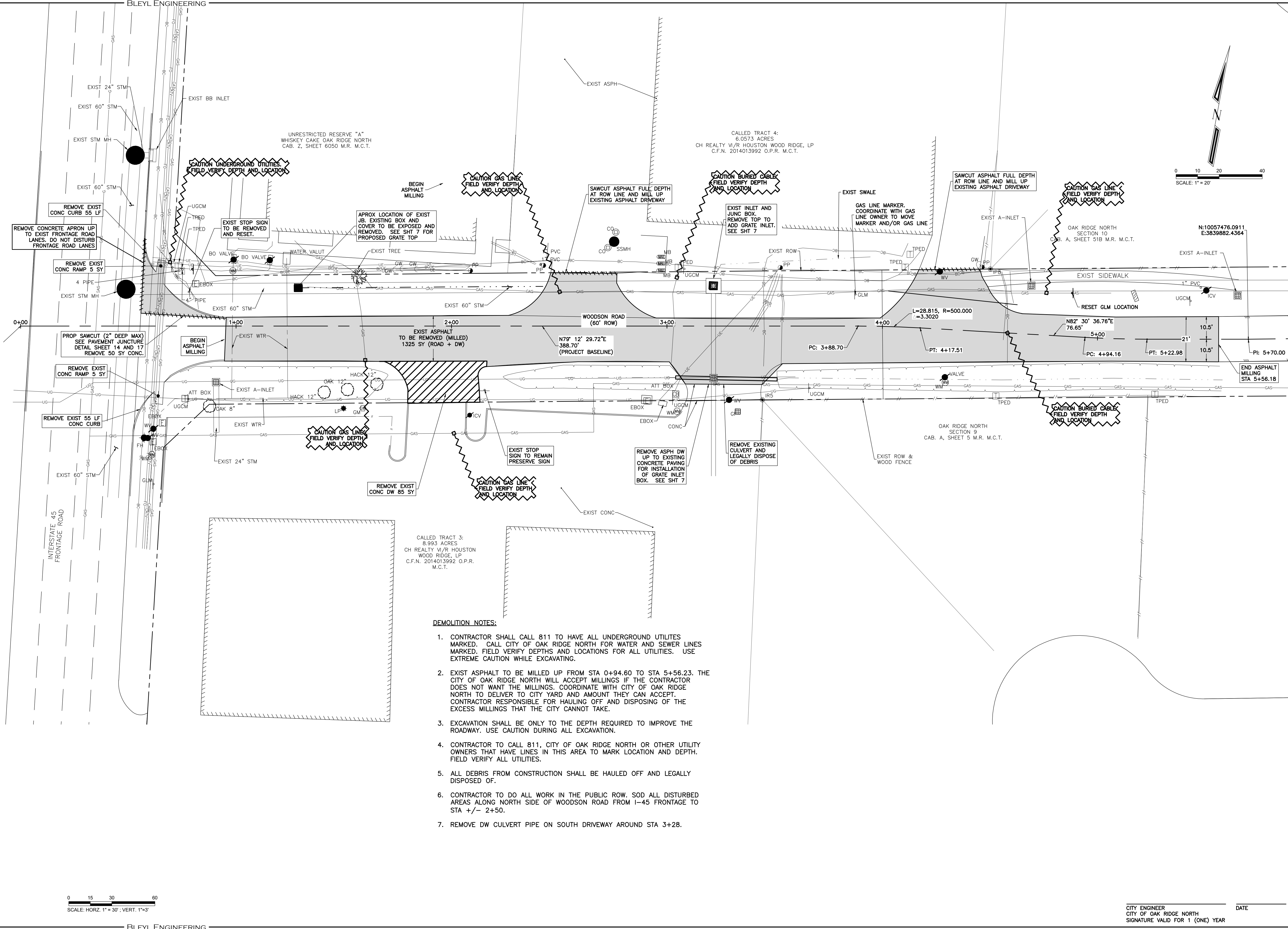
CITY OF OAK RIDGE NORTH

SIGNATURE VALID FOR 1 (ONE) YEAR

DATE

CRUSHING 3/12/2021 7:49:28 AM F:\12700S\12700 WOODSON ROAD & BLUEBERRY HILL DR. ROADWAY IMPROVEMENTS\04 CAD\CD-12700\6 DEMOLITION PLAN.DWG

ORIGINAL LAYOUT SIZE - 22X34

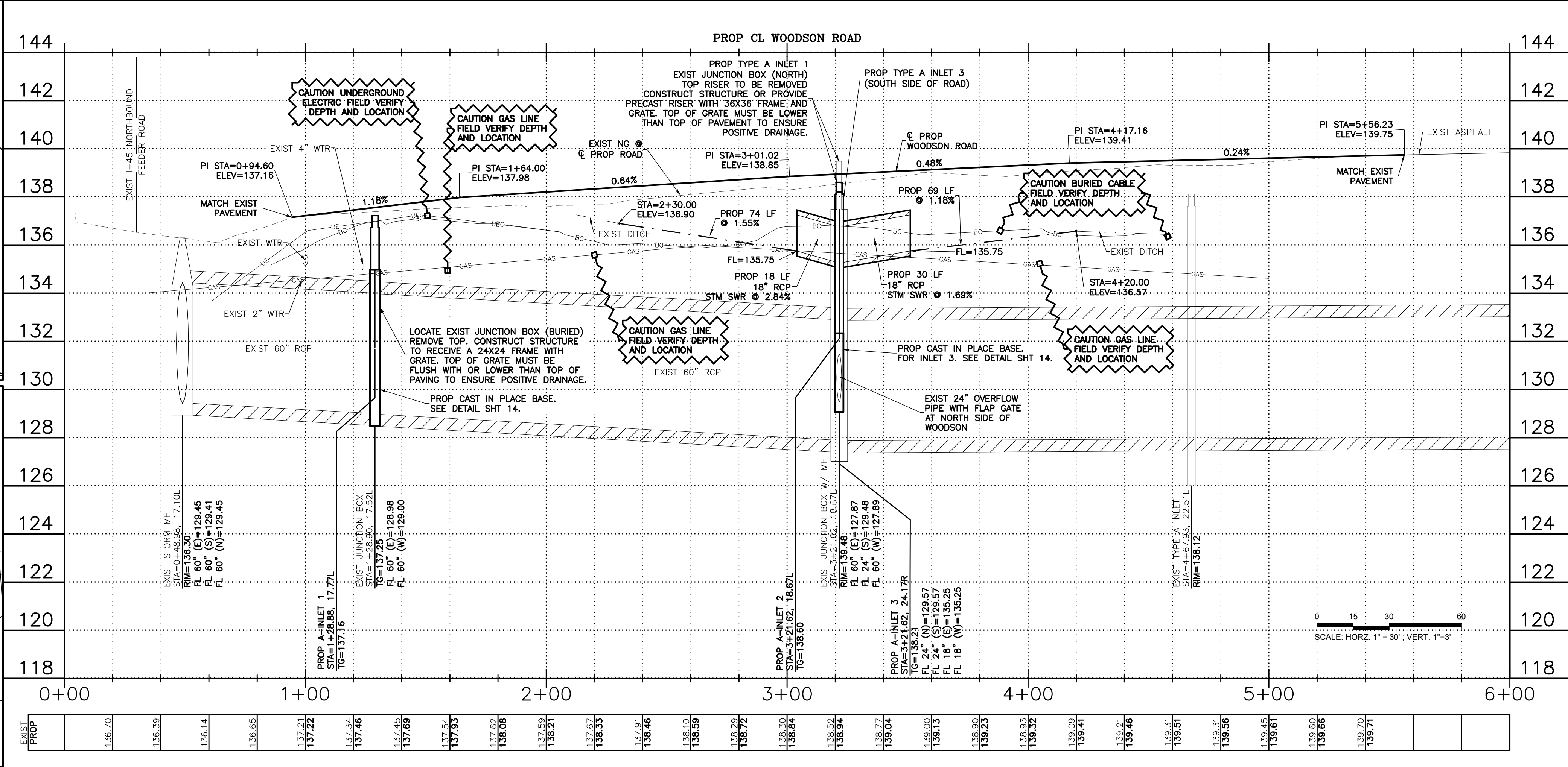
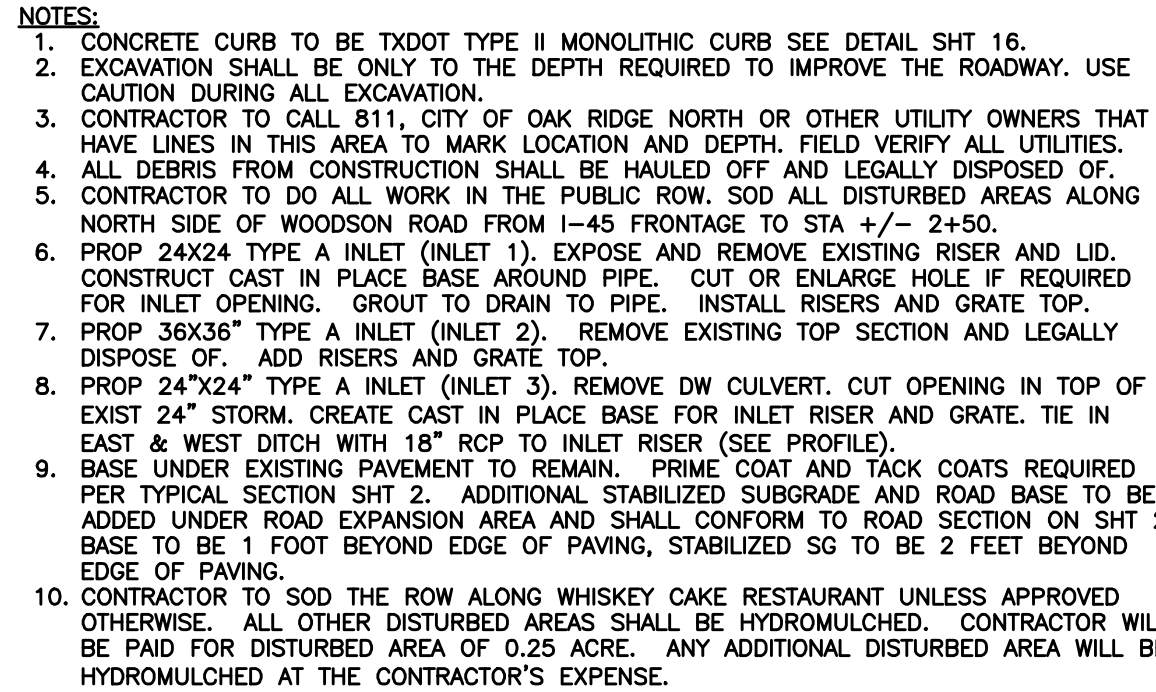


DEMOLITION NOTES:

- CONTRACTOR SHALL CALL 811 TO HAVE ALL UNDERGROUND UTILITIES MARKED. CALL CITY OF OAK RIDGE NORTH FOR WATER AND SEWER LINES MARKED. FIELD VERIFY DEPTHS AND LOCATIONS FOR ALL UTILITIES. USE EXTREME CAUTION WHILE EXCAVATING.
- EXIST ASPHALT TO BE MILLED UP FROM STA 0+94.60 TO STA 5+56.23. THE CITY OF OAK RIDGE NORTH WILL ACCEPT MILLINGS IF THE CONTRACTOR DOES NOT WANT THE MILLINGS. COORDINATE WITH CITY OF OAK RIDGE NORTH TO DELIVER TO CITY YARD AND AMOUNT THEY CAN ACCEPT. CONTRACTOR RESPONSIBLE FOR HAULING OFF AND DISPOSING OF THE EXCESS MILLINGS THAT THE CITY CANNOT TAKE.
- EXCAVATION SHALL BE ONLY TO THE DEPTH REQUIRED TO IMPROVE THE ROADWAY. USE CAUTION DURING ALL EXCAVATION.
- CONTRACTOR TO CALL 811, CITY OF OAK RIDGE NORTH OR OTHER UTILITY OWNERS THAT HAVE LINES IN THIS AREA TO MARK LOCATION AND DEPTH. FIELD VERIFY ALL UTILITIES.
- ALL DEBRIS FROM CONSTRUCTION SHALL BE HAULED OFF AND LEGALLY DISPOSED OF.
- CONTRACTOR TO DO ALL WORK IN THE PUBLIC ROW. SOD ALL DISTURBED AREAS ALONG NORTH SIDE OF WOODSON ROAD FROM I-45 FRONTAGE TO STA +/- 2+50.
- REMOVE DW CULVERT PIPE ON SOUTH DRIVEWAY AROUND STA 3+28.

PREPARED FOR:		CITY OF OAK RIDGE NORTH 27424 ROBINSON ROAD OAK RIDGE NORTH, TEXAS 77385 281-292-4648	
BLEYL ENGINEERING		PLANNING • DESIGN • MANAGEMENT 100 Nugent Street, Conroe, TX 77301 Texas Firm Registration No. F-678 Tel. 936-441-7833 Fax 936-760-3833 www.bleylengineering.com	
AUSTIN		BRYAN CONROE HOUSTON	
DEMOLITION PLAN		WOODSON ROAD & BLUEBERRY HILL DRIVE ROADWAY IMPROVEMENTS OAK RIDGE NORTH, TEXAS	
DESIGN: CARL RUSHING		DATE	
CAD: WSW RW: JMS		SHEET: 6 OF: 17	

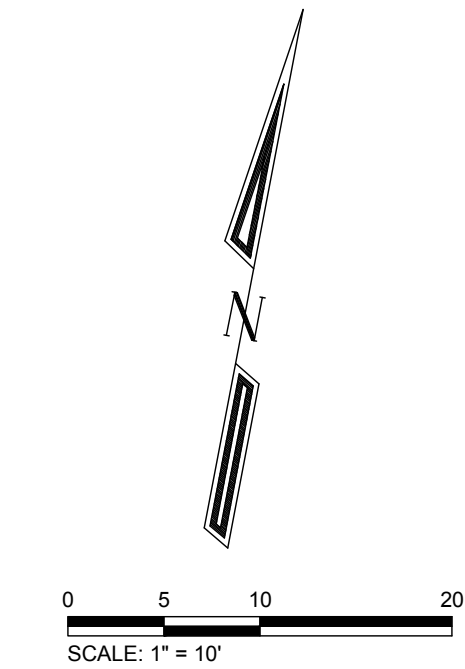
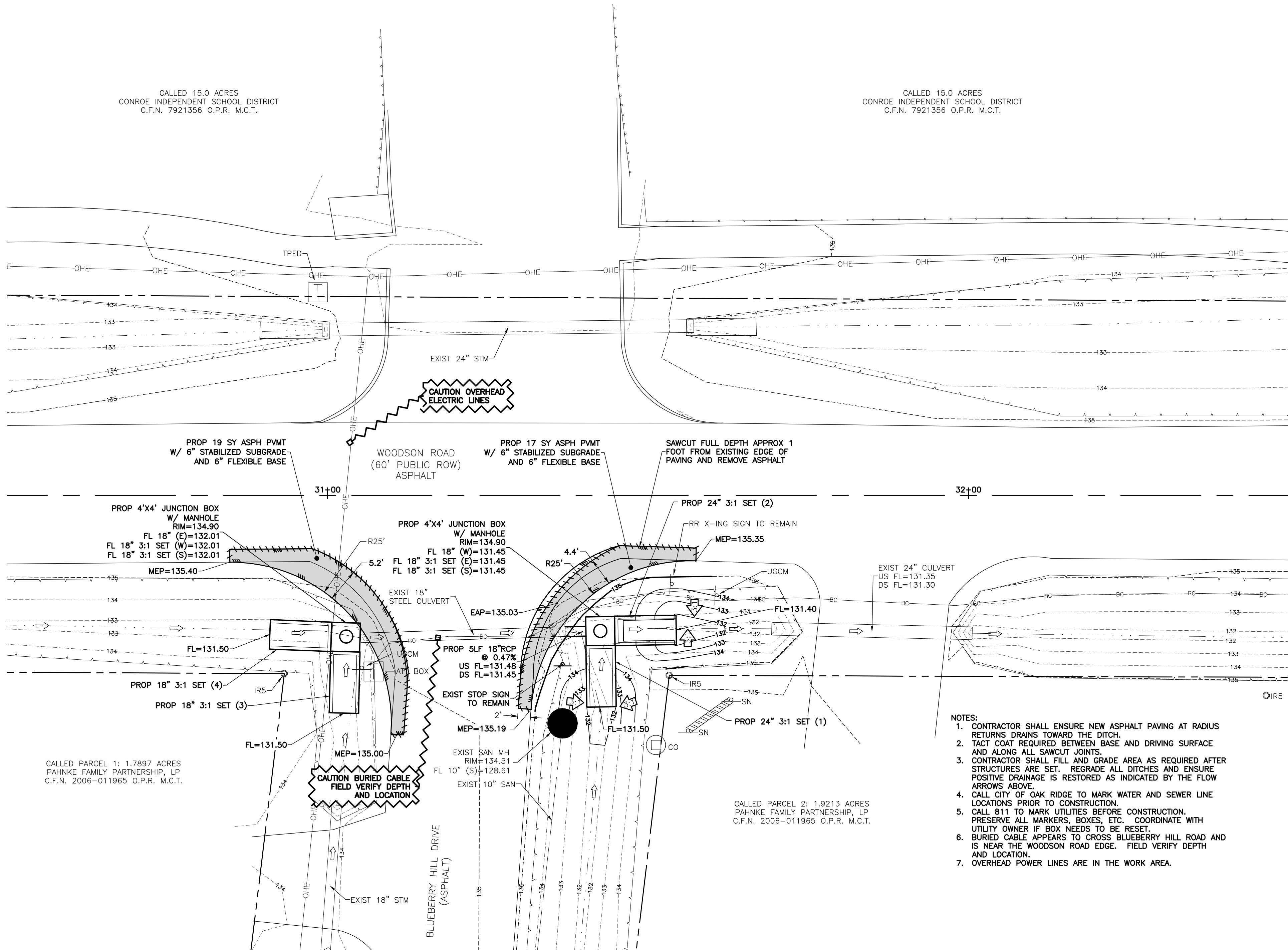
3/11/2021



DATE _____

DESIGN: CARL RUSHING	
CAD: WSW	RVW: JMS
PROJECT NO: 12700	
SHEET: 7	OF: 17

OAK RIDGE NORTH, TEXAS



DESIGN: CARL RUSHING
CAD: WSW RWV: JMS
PROJECT NO: 12700
SHEET: 8 OF: 17

PLAN BLUEBERRY HILL DRIVE
IMPROVEMENTS
WOODSON ROAD & BLUEBERRY HILL
DRIVE ROADWAY IMPROVEMENTS
OAK RIDGE NORTH, TEXAS

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AUSTIN BRYAN CONROE HOUSTON

PREPARED FOR:
CITY OF OAK RIDGE NORTH
27424 ROBINSON ROAD
OAK RIDGE NORTH,
TEXAS 77385
281-292-4648

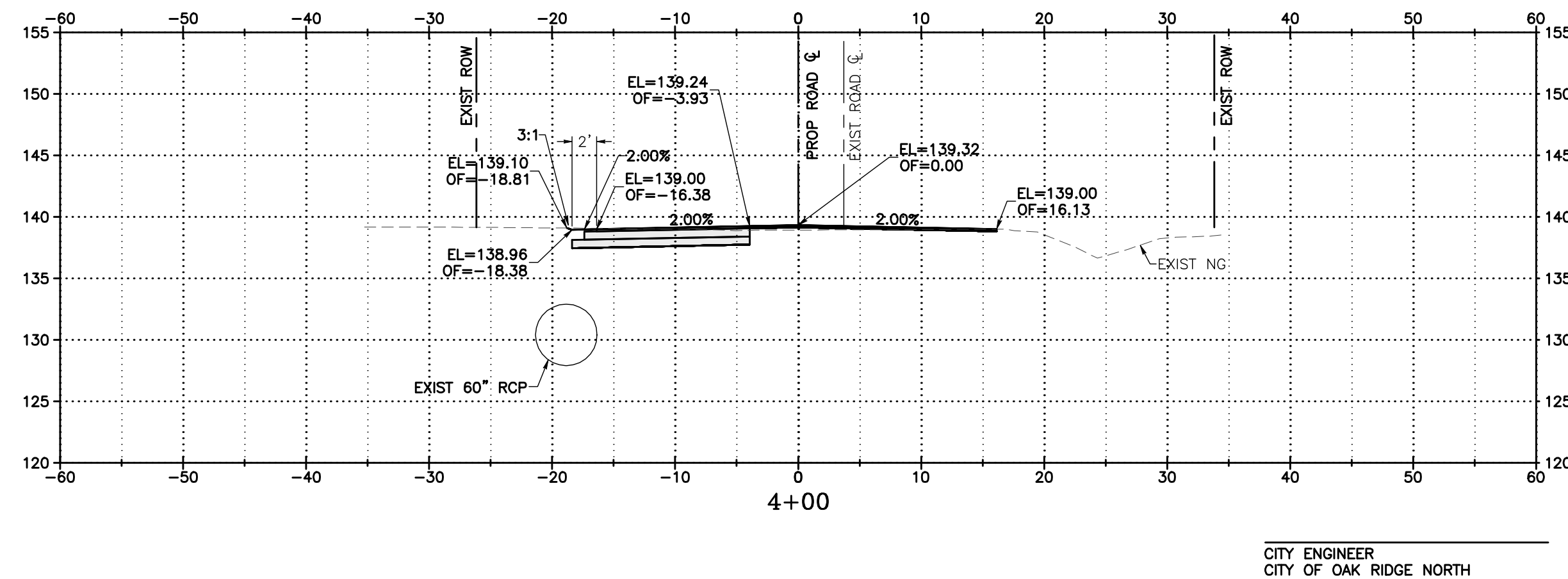
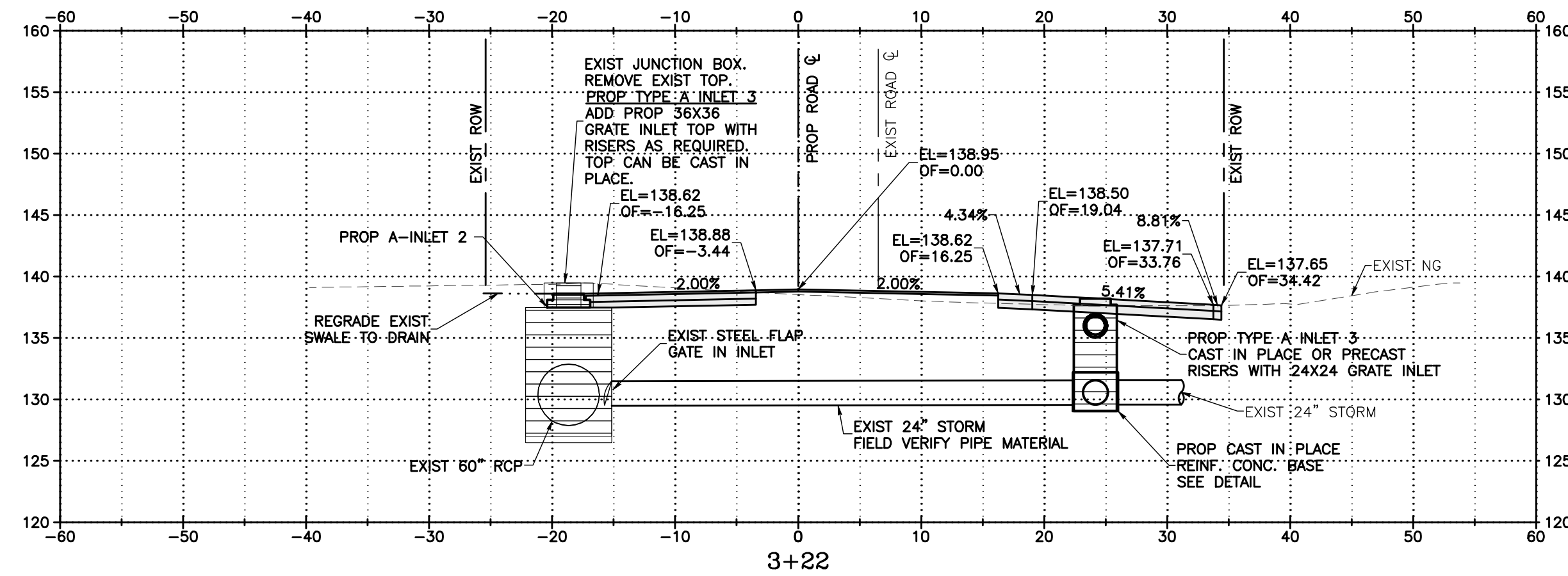
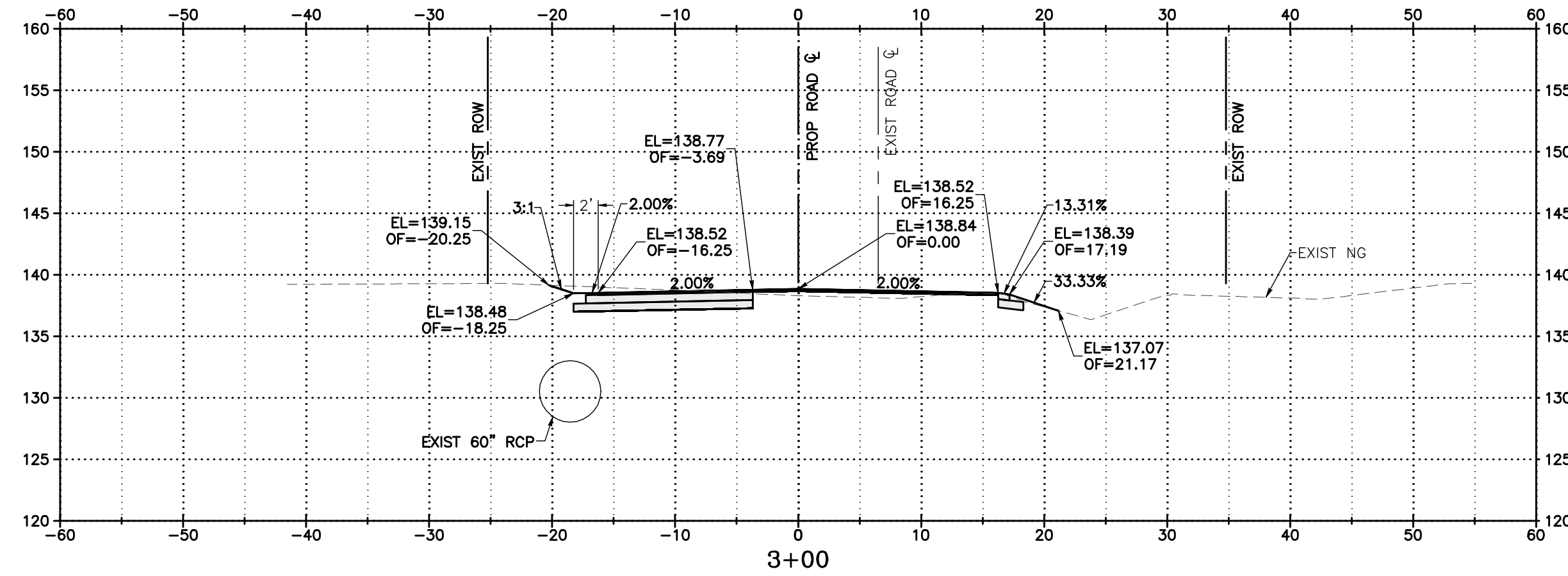
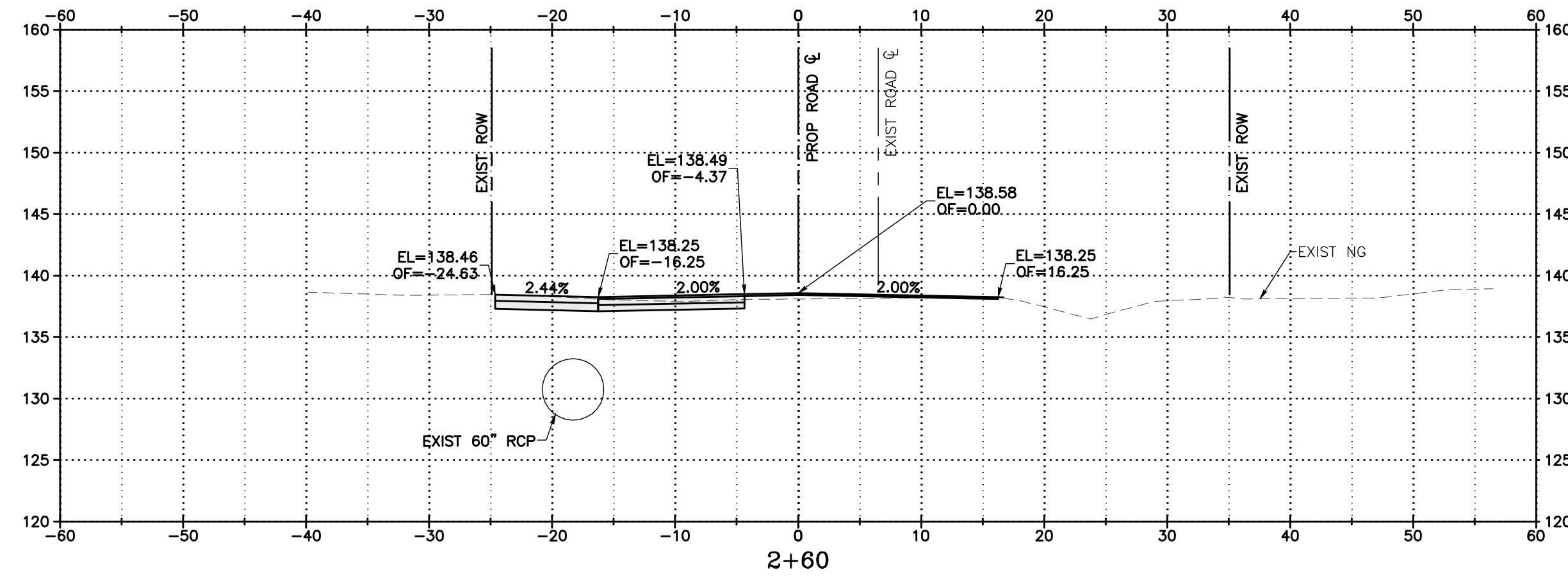
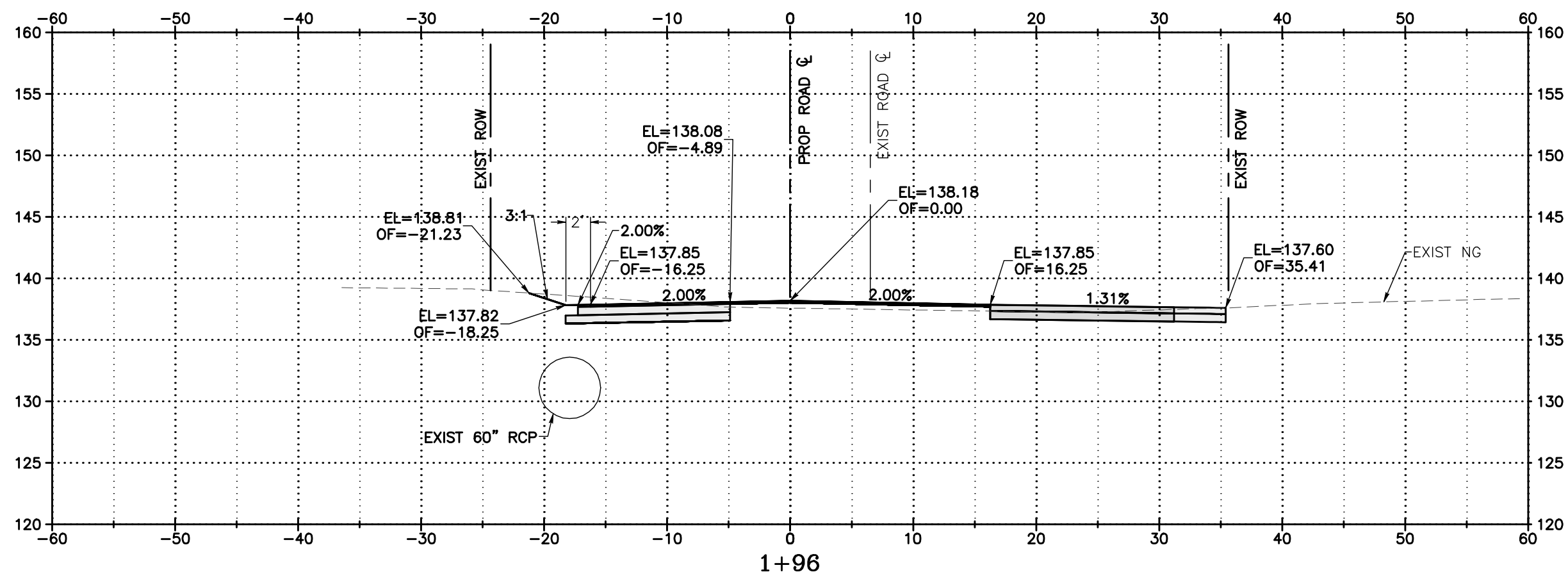
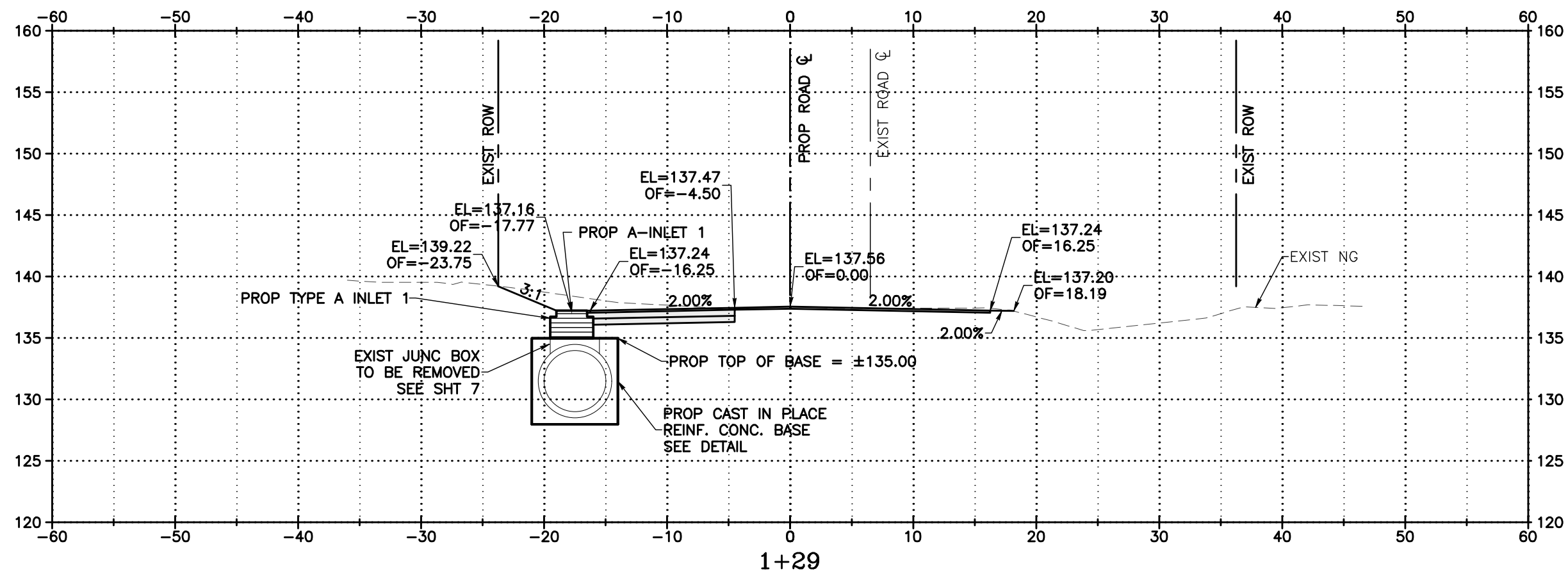
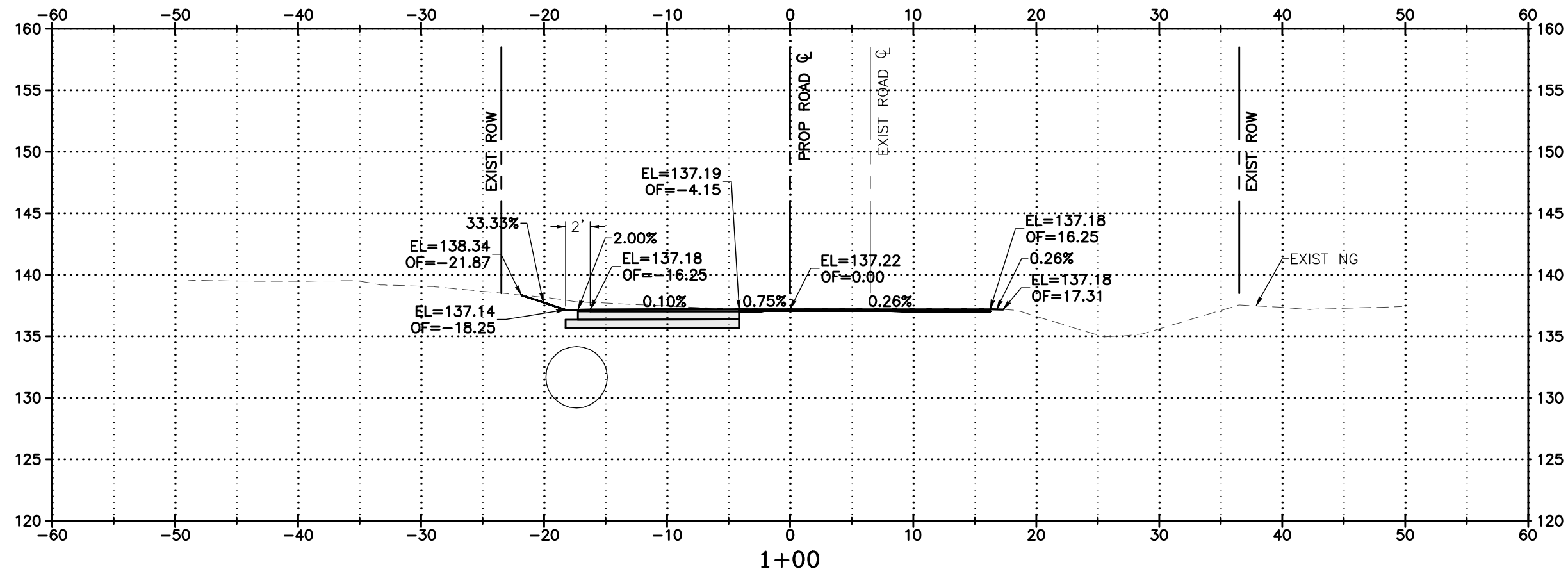
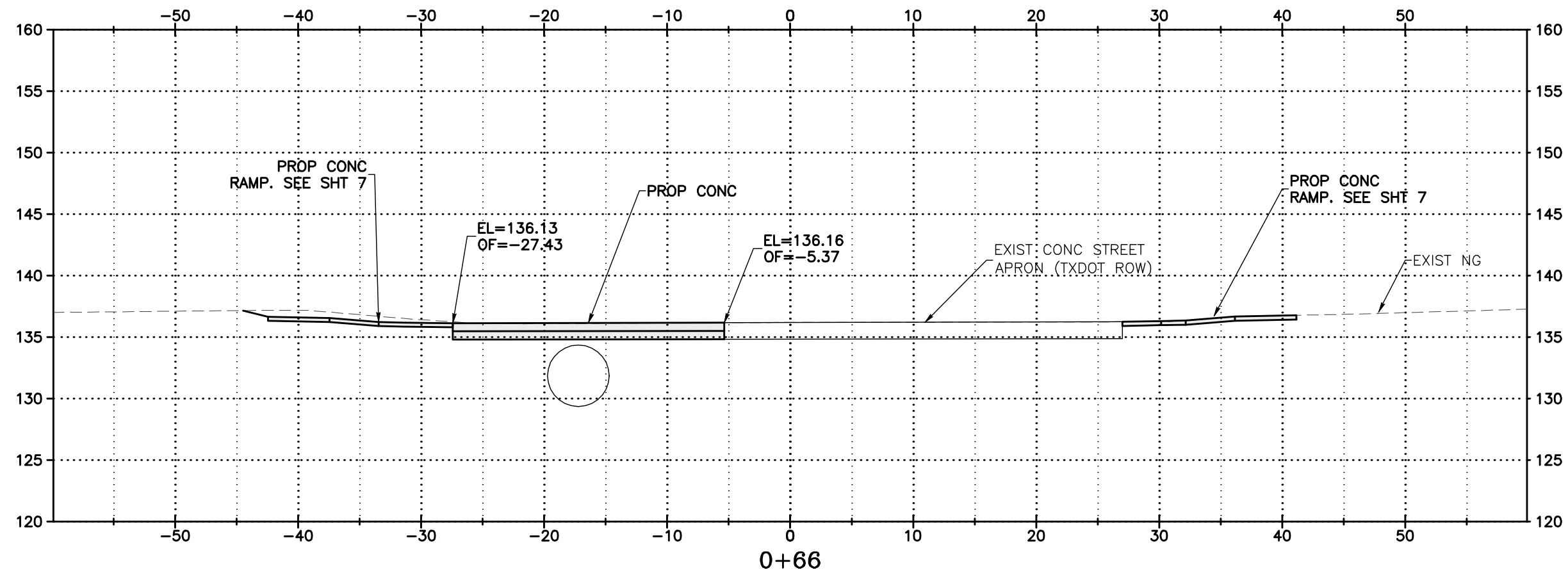
REV	DATE	BY	APP	COMMENT

CITY ENGINEER
CITY OF OAK RIDGE NORTH
SIGNATURE VALID FOR 1 (ONE) YEAR

DATE

3/12/2021 7:50:47 AM
F:\127005\12700 WOODSON ROAD & BLUEBERRY HILL DR. ROADWAY IMPROVEMENTS\04 CAD\CD-12700\8 WOODSON ROAD CROSS SECTIONS STA 0+60 TO 4+00.DWG

ORIGINAL LAYOUT SIZE - 22X34



CITY ENGINEER
CITY OF OAK RIDGE NORTH
SIGNATURE VALID FOR 1 (ONE) YEAR

DATE

PREPARED FOR:

CITY OF OAK RIDGE NORTH
27424 ROBINSON ROAD
OAK RIDGE NORTH,
TEXAS 77385
281-292-4648

BLEYL ENGINEERING

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Tel. 936-441-7833 Fax 936-760-3833
www.bleylengineering.com

WOODSON ROAD CROSS SECTIONS
STA 0+60 TO 4+00

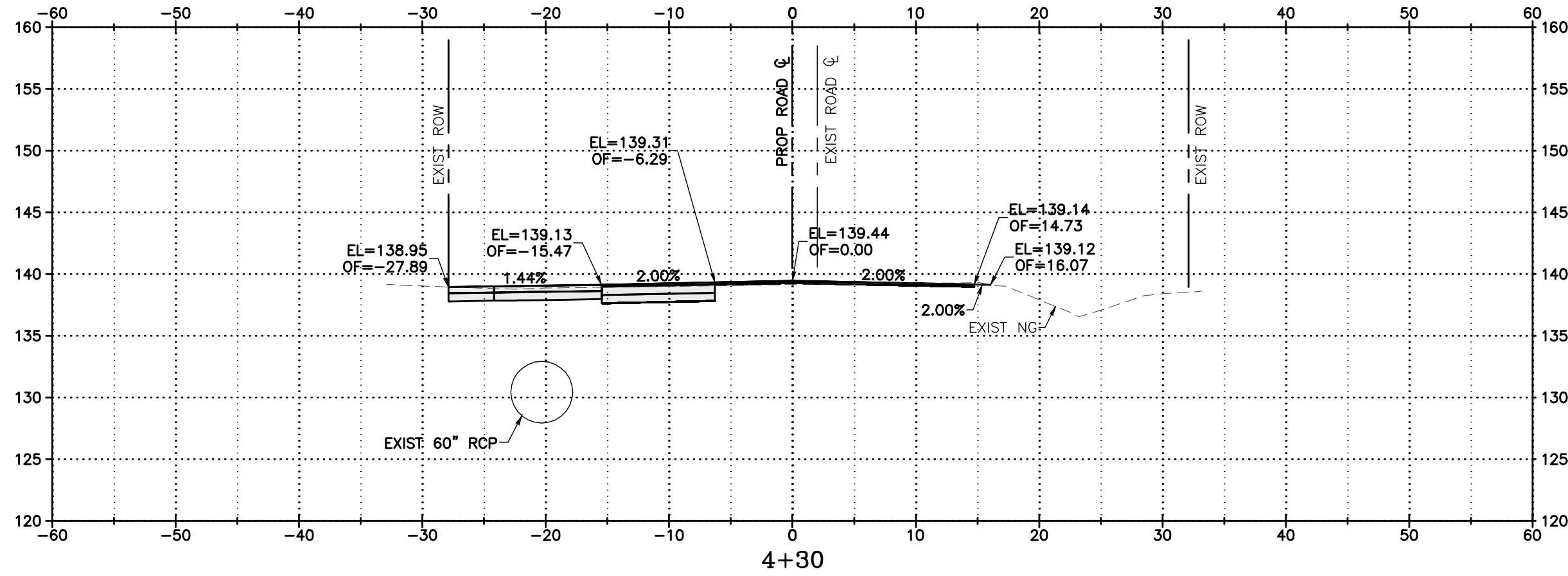
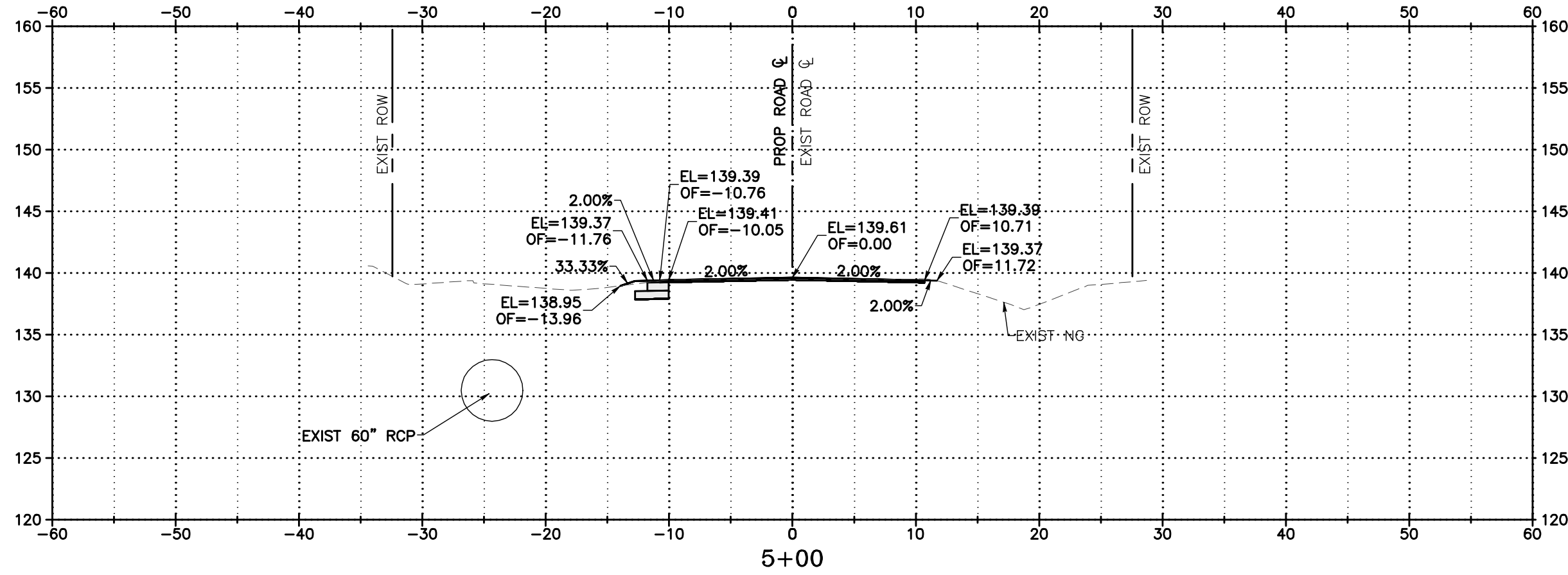
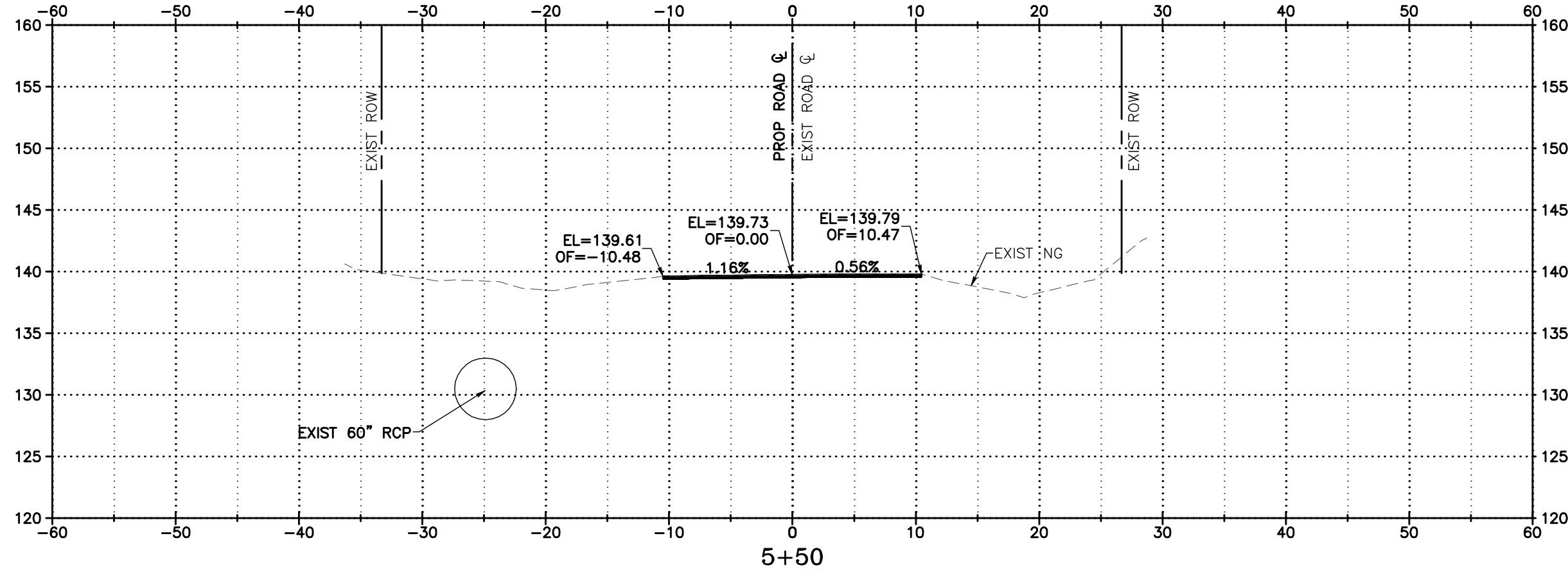
WOODSON ROAD & BLUEBERRY HILL
DRIVE ROADWAY IMPROVEMENTS

OAK RIDGE NORTH, TEXAS

3/11/2021

REV	DATE	BY	APP	COMMENT

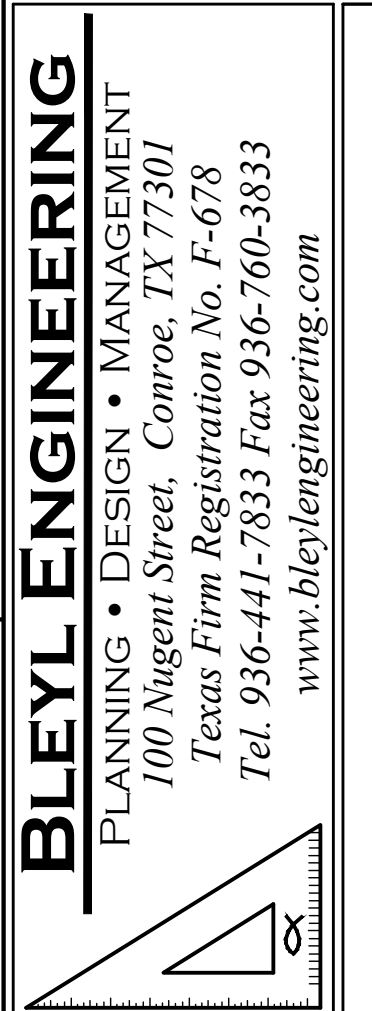
DESIGN: CARL RUSHING
CAD: WSW RW: JMS
PROJECT NO: 12700
SHEET: 9 OF: 17



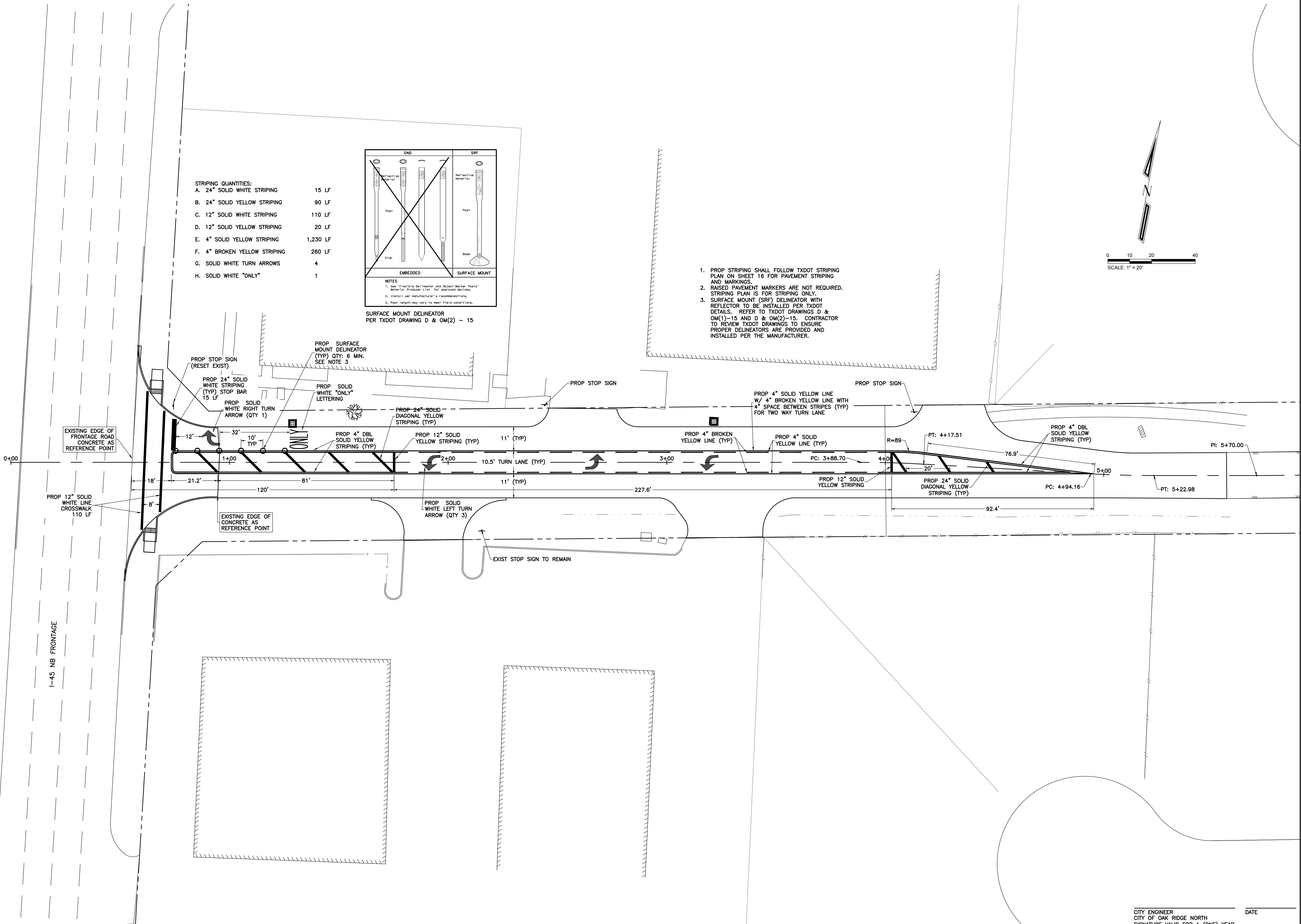
3/11/2021

DESIGN: CARL RUSHING
CAD: WSW RVW: JMS
PROJECT NO: 12700
SHEET: 10 OF: 17

WOODSON ROAD CROSS SECTIONS
STA 4+30 TO 5+50
WOODSON ROAD & BLUEBERRY HILL
DRIVE ROADWAY IMPROVEMENTS
OAK RIDGE NORTH, TEXAS

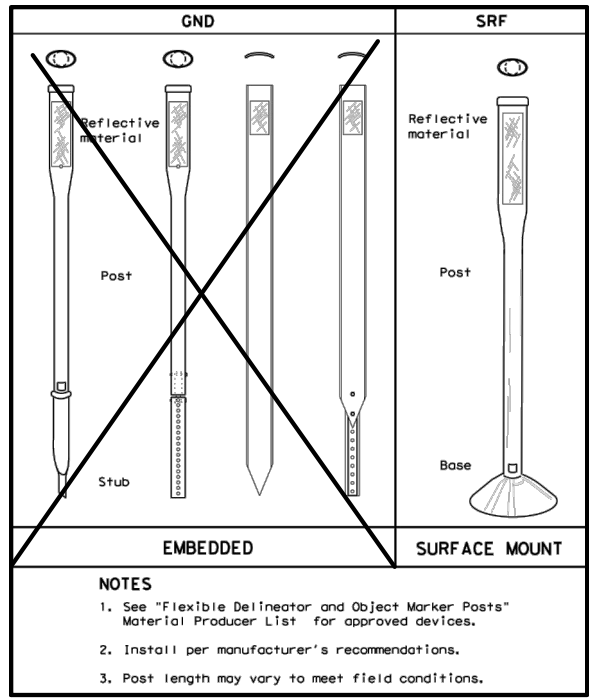


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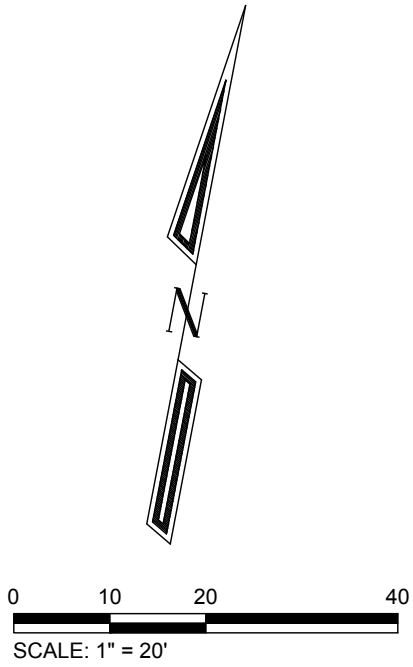
STRIPING QUANTITIES:

A. 24" SOLID WHITE STRIPING	15 LF
B. 24" SOLID YELLOW STRIPING	90 LF
C. 12" SOLID WHITE STRIPING	110 LF
D. 12" SOLID YELLOW STRIPING	20 LF
E. 4" SOLID YELLOW STRIPING	1,230 LF
F. 4" BROKEN YELLOW STRIPING	260 LF
G. SOLID WHITE TURN ARROWS	4
H. SOLID WHITE "ONLY"	1



SURFACE MOUNT DELINEATOR
PER TXDOT DRAWING D & OM(2) - 15

1. PROP STRIPING SHALL FOLLOW TXDOT STRIPING PLAN ON SHEET 16 FOR PAVEMENT STRIPING AND MARKINGS.
2. RAISED PAVEMENT MARKERS ARE NOT REQUIRED. STRIPING PLAN IS FOR STRIPING ONLY.
3. SURFACE MOUNT (SRF) DELINEATOR WITH REFLECTOR TO BE INSTALLED PER TXDOT DETAILS. REFER TO TXDOT DRAWINGS D & OM(1)-15 AND D & OM(2)-15. CONTRACTOR TO REVIEW TXDOT DRAWINGS TO ENSURE PROPER DELINEATORS ARE PROVIDED AND INSTALLED PER THE MANUFACTURER.



WOODSON ROAD STRIPING AND
SIGNAGE PLAN

WOODSON ROAD & BLUEBERRY HILL
DRIVE ROADWAY IMPROVEMENTS

OAK RIDGE NORTH, TEXAS

BLEYL ENGINEERING

PLANNING • DESIGN • MANAGEMENT

100 Nugent Street, Conroe, TX 77301

Texas Firm Registration No. F-678

Tel. 936-441-7833 Fax 936-760-3833

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CITY OF OAK RIDGE NORTH

27424 ROBINSON ROAD

OAK RIDGE NORTH,

TEXAS 77385

281-292-4648

DESIGN: CARL RUSHING

CAD: WSW RVW: JMS

PROJECT NO: 12700

SHEET: 11 OF: 17

STATE OF TEXAS

CARL RUSHING

121777

PROFESSIONAL ENGINEER

Ce Pro 3/22/2021

CITY ENGINEER

CITY OF OAK RIDGE NORTH

SIGNATURE VALID FOR 1 (ONE) YEAR

DATE

REV

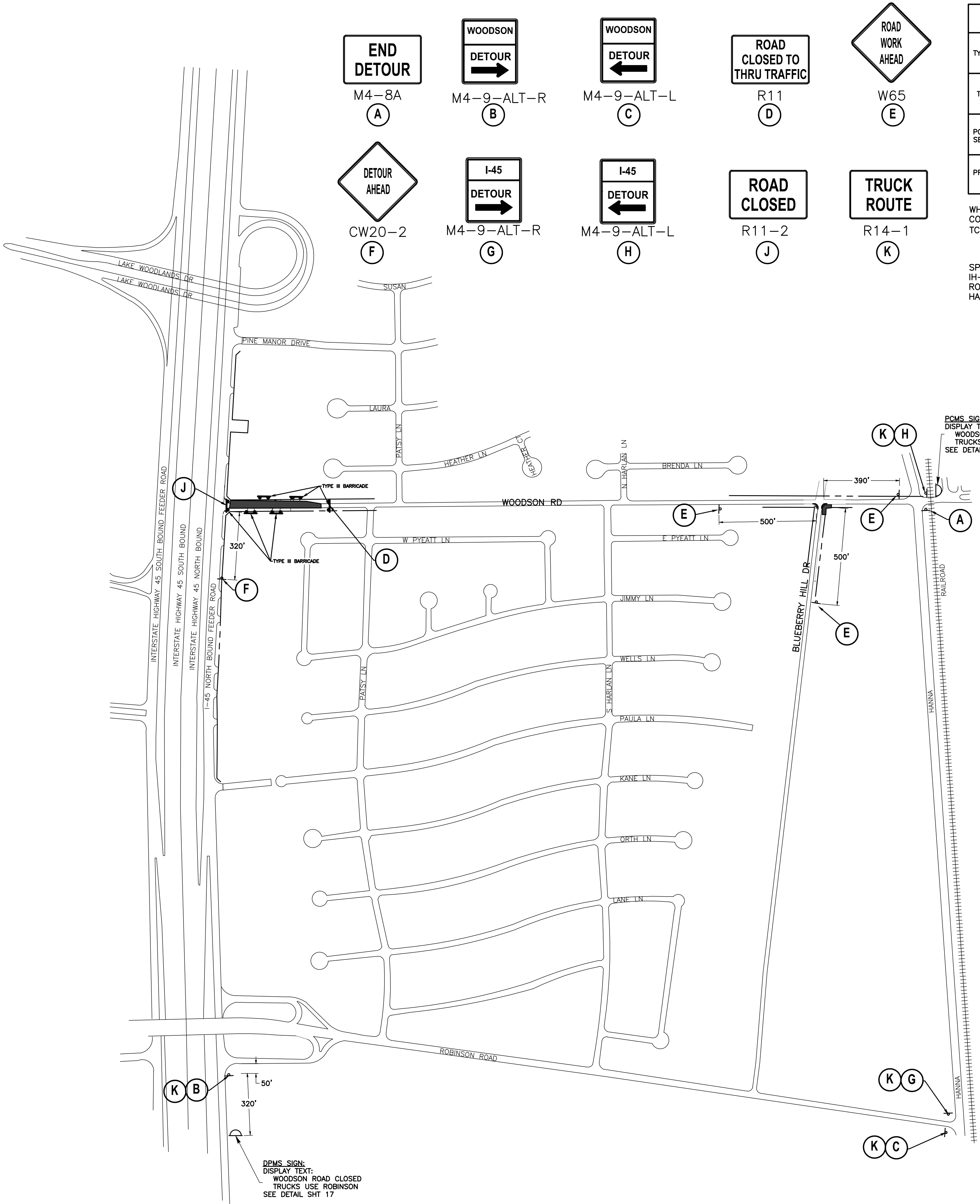
DATE

BY

APP

COMMENT

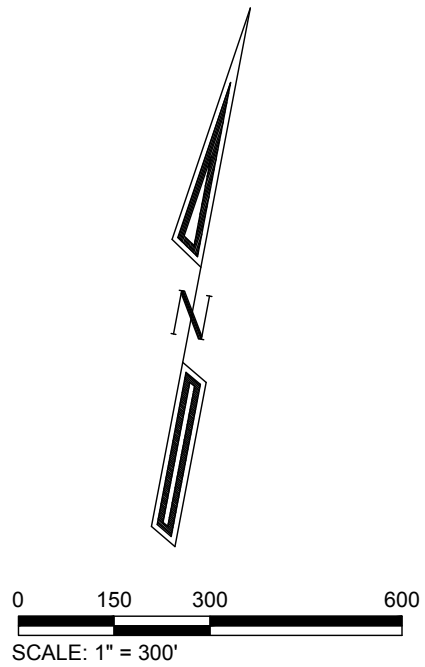
CRUSHING
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3/22/2021 9:14:38 AM
ORIGINAL LAYOUT SIZE - 22X34



LEGEND	
TYPE III BARRICADE	
TEMPORARY SIGN	
PCMS SEE SHT 17	
PROPOSED WORK	

WHEN ONE LANE IS CLOSED
CONTRACTOR SHALL USE TXDOT STD
TCP (1-2)-18

SPEED LIMITS:
IH-45 NBFR SPEED LIMIT = 45 MPH
ROBINSON ROAD SPEED LIMIT = 30 MPH
HANNA ROAD SPEED LIMIT = 30 MPH



- NOTES:
- CONTRACTOR SHALL NOTIFY THE FOLLOWING ENTITIES 5 BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION NOT COUNTY WEEKENDS TO INFORM EACH ENTITY OF THE PENDING ROAD CLOSURE. IF CONSTRUCTION BEGINS ON A MONDAY, NOTIFICATION SHALL BE NO LATER THAN THE MONDAY PRIOR TO THAT DAY.
 - TXDOT: CONROE OFFICE 936-538-3350, ABRAHAM GUZMAN, P.E.
 - CITY OF OAK RIDGE NORTH: PUBLIC WORKS, 281-292-4648, DIRECTOR JOE SHERWIN, P.E.
 - CITY OF OAK RIDGE NORTH POLICE: 281-292-4643
 - CONROE ISD TRANSPORTATION DEPT: 832-592-8857 KENDRICK THOMAS
 - EMERGENCY SERVICE DISTRICT 8: FIRE AND AMBULANCE SERVICES, 281-363-3473
 - SINGLE LANE CLOSURE ALLOWED FROM 9 AM TO 3 PM WEEKDAYS USING TXDOT STD TCP (1-2)-18
 - MODIFICATIONS TO THIS TRAFFIC CONTROL PLAN MUST BE SEALED BY A TEXAS LICENSED ENGINEER AND MUST BE APPROVED IN WRITING BY BLEYL ENGINEERING BEFORE BEING IMPLEMENTED.
 - WORK ON BLUEBERRY HILL AND WOODSON DOES NOT REQUIRE ALL THE TRAFFIC CONTROL SHOWN FOR WOODSON UNLESS THE WORK IS DONE CONCURRENTLY WITH THE WOODSON ROAD WIDENING. IF BLUEBERRY HILL IS WORKED ON

CONTRACTOR SHALL USE CAUTION DURING CONSTRUCTION IN THE VICINITY OF ALL OVERHEAD ELECTRIC. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS IN REGARDS TO CLEARANCES AND CONSTRUCTION ACTIVITIES.

LOCATION AND ELEVATION OF EXISTING UTILITIES SHOWN HEREIN ARE PROVIDED BY OTHERS. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES AT ALL CROSSINGS AND CONNECTION POINTS PRIOR TO ANY WORK. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER.

DPMS SIGN:
DISPLAY TEXT:
WOODSON ROAD CLOSED
TRUCKS USE ROBINSON
SEE DETAIL SHT 17

CITY ENGINEER
CITY OF OAK RIDGE NORTH
SIGNATURE VALID FOR 1 (ONE) YEAR

DATE

DESIGN: CARL RUSHING
CAD: WSW RWV: JMS
PROJECT NO: 12700
SHEET: 12 OF: 17

PREPARED FOR:
CITY OF OAK RIDGE NORTH
27424 ROBINSON ROAD
OAK RIDGE NORTH,
TEXAS 77385
281-292-4648

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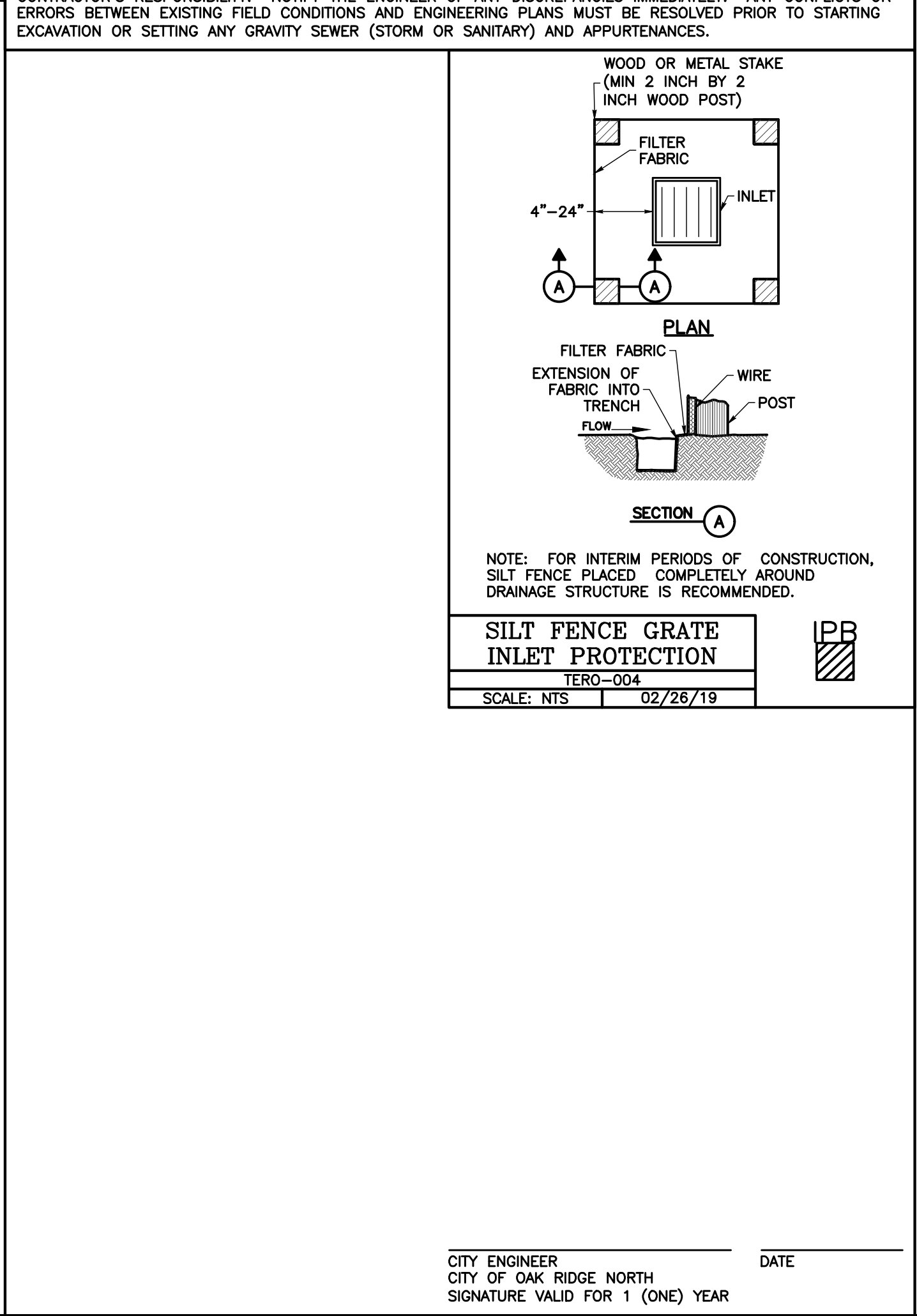
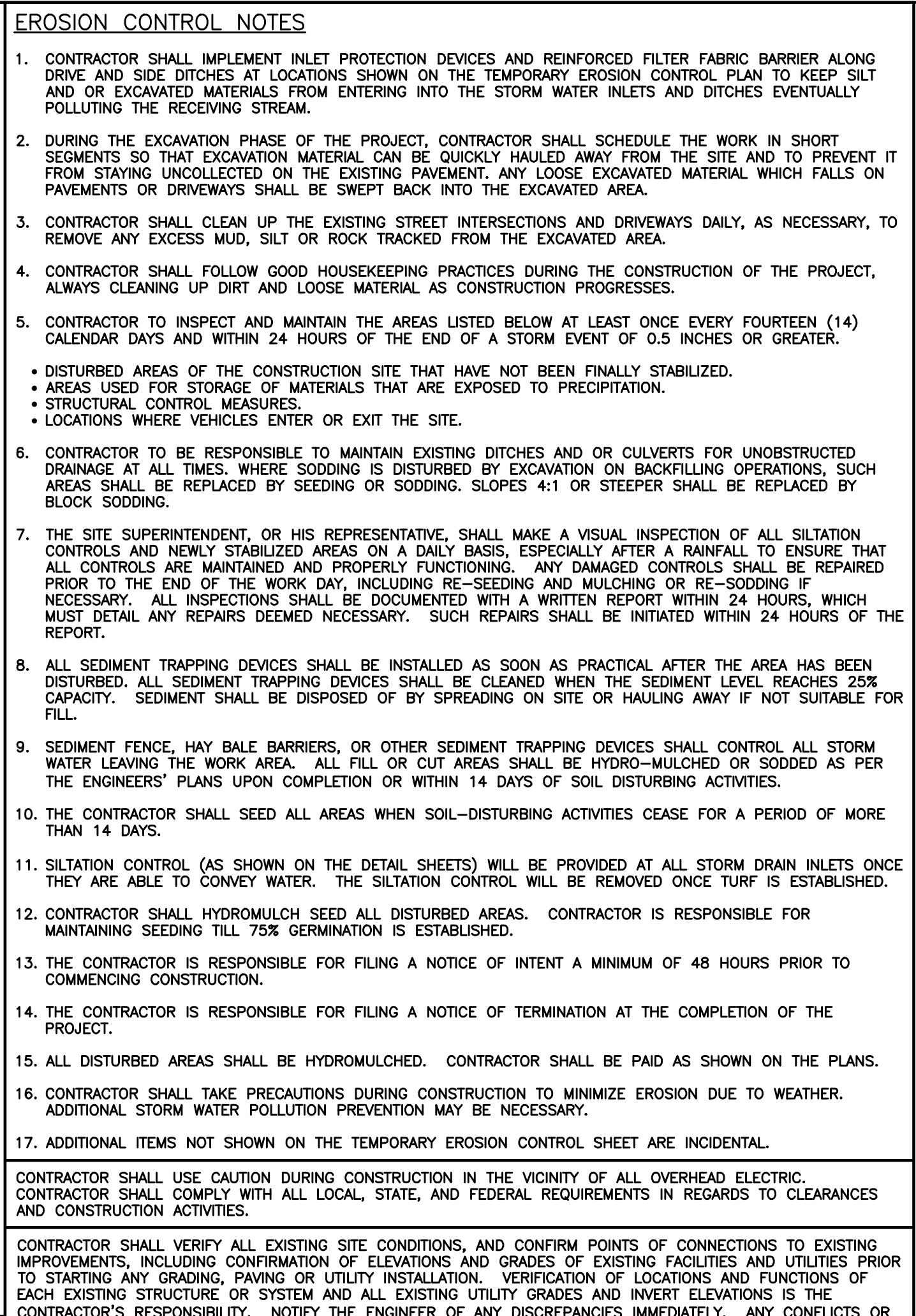
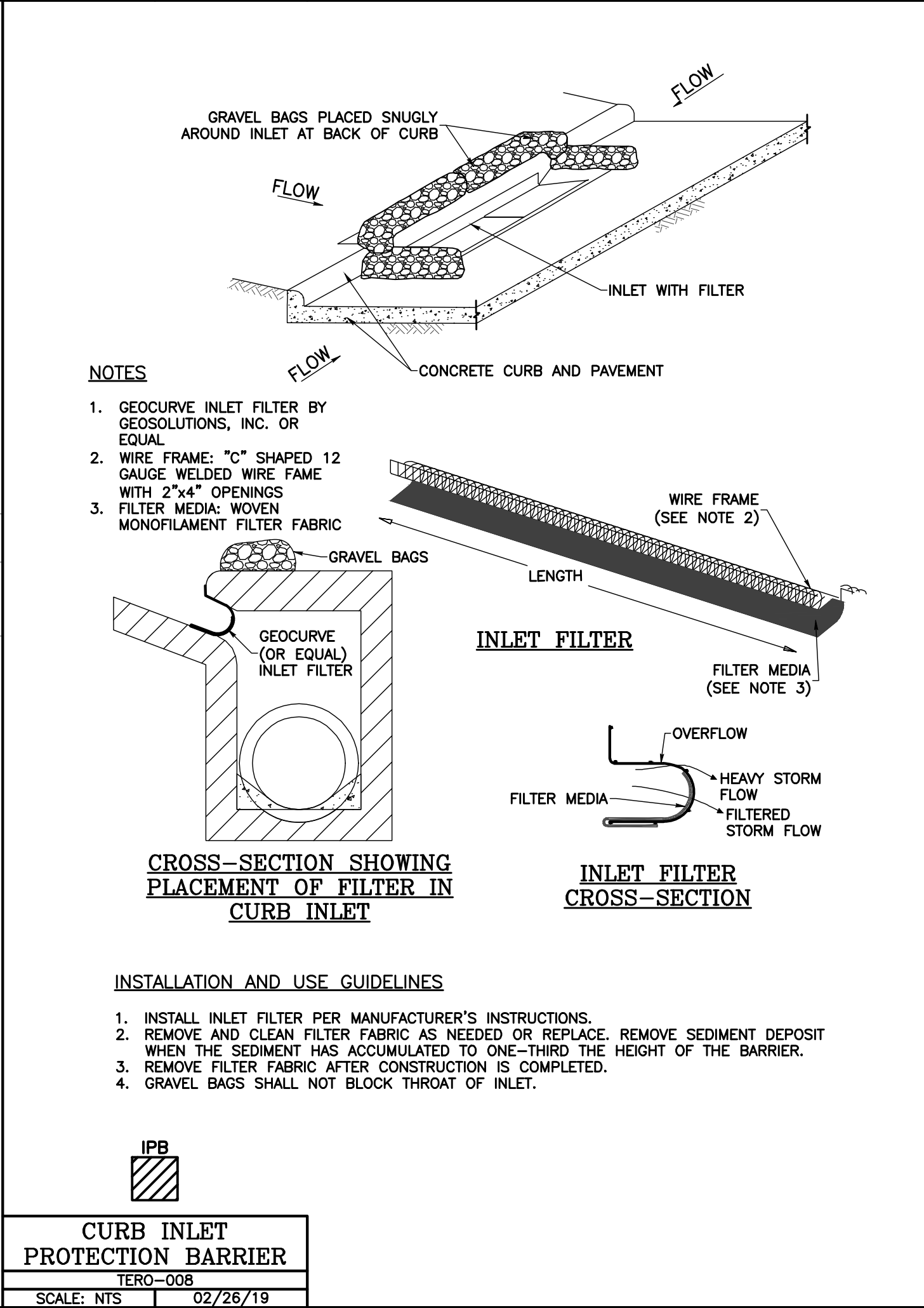
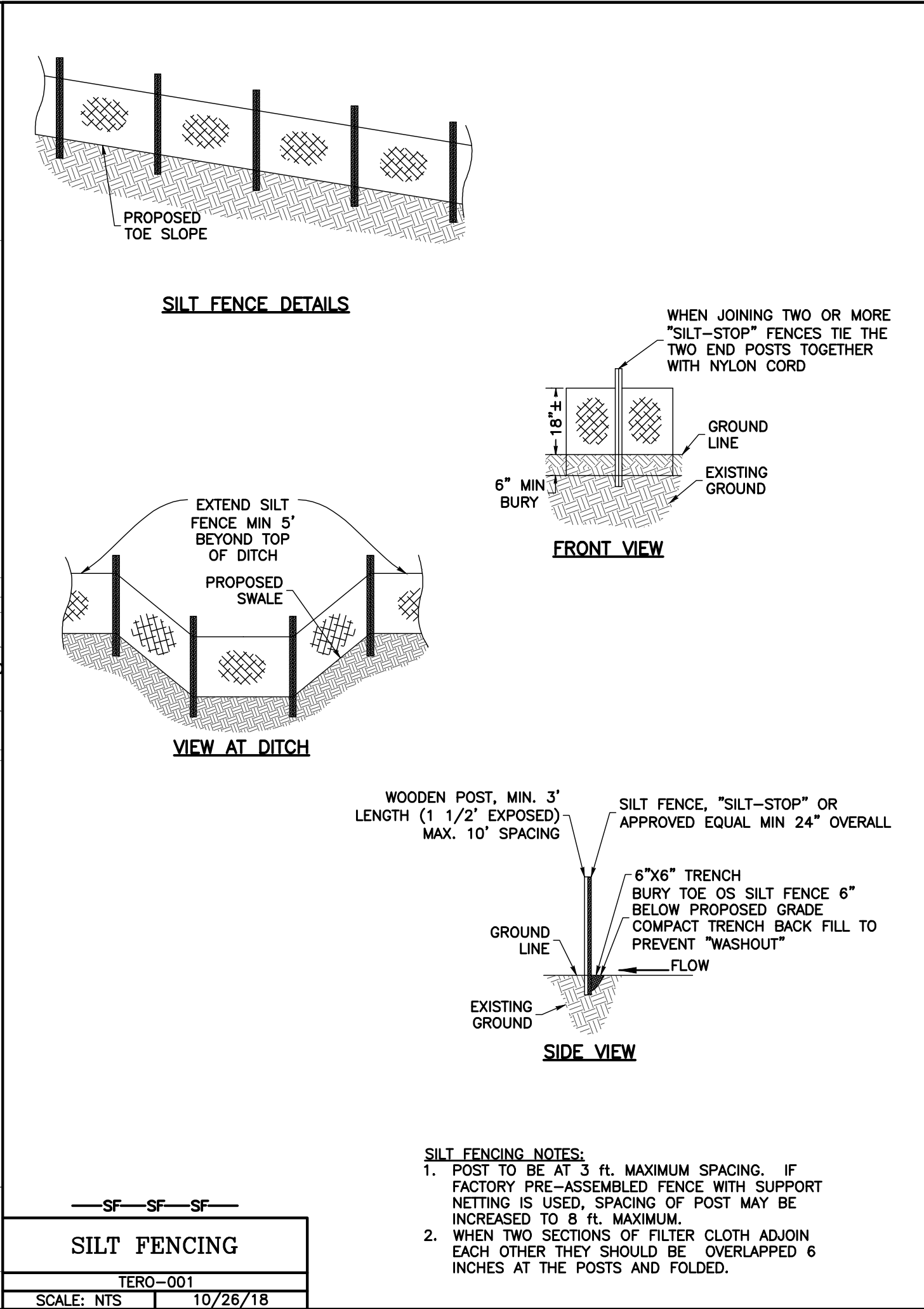
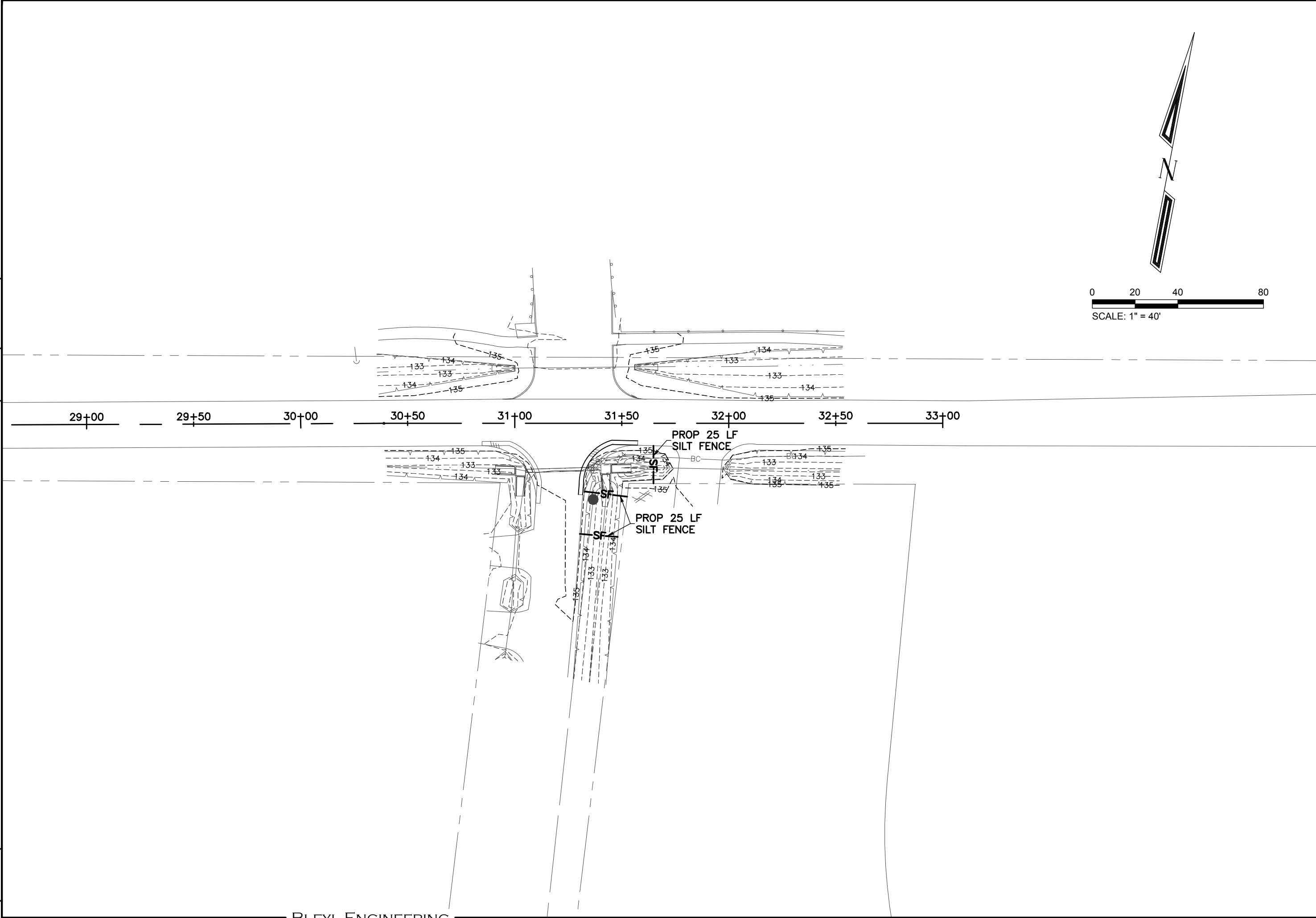
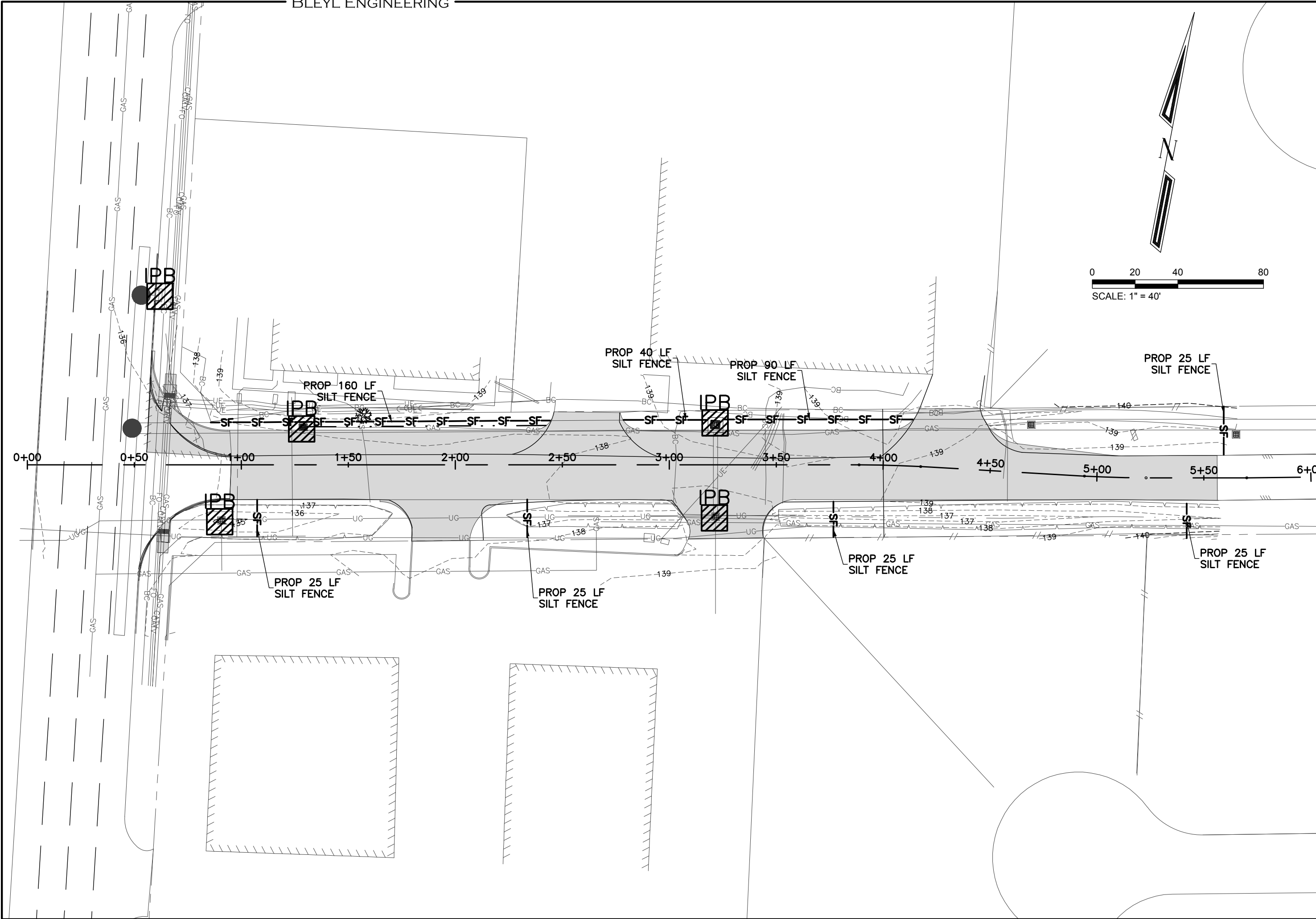
AUSTIN BRYAN CONROE HOUSTON

TRAFFIC CONTROL PLAN
WOODSON ROAD & BLUEBERRY HILL
DRIVE ROADWAY IMPROVEMENTS
OAK RIDGE NORTH, TEXAS

3/22/2021
DESIGN: CARL RUSHING
CAD: WSW RWV: JMS
PROJECT NO: 12700
SHEET: 12 OF: 17

NREAMES 3/12/2021 7:52:06 AM
F:\12700S\12700 WOODSON ROAD & BLUEBERRY HILL DR. ROADWAY IMPROVEMENTS\04 CAD\CD-12700\12 TEMPORARY EROSION CONTROL PLAN.DWG

ORIGINAL LAYOUT SIZE - 22X34

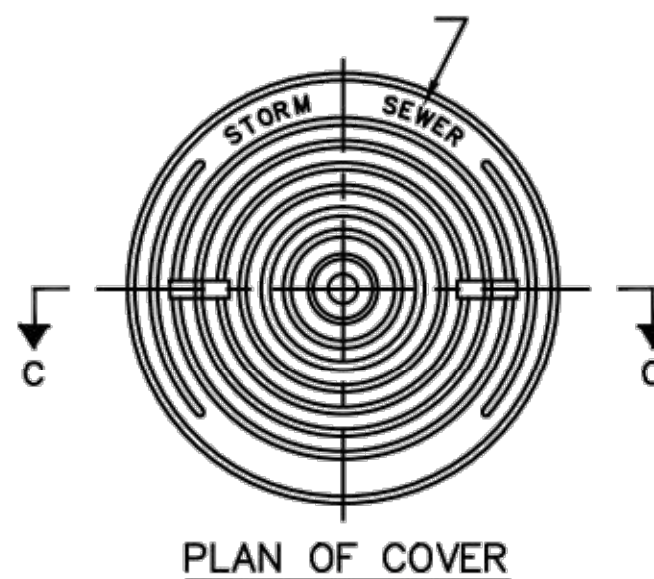


PREPARED FOR:	CITY OF OAK RIDGE NORTH 27424 ROBINSON ROAD OAK RIDGE NORTH, TEXAS 77385 281-292-4648
DESIGNED BY:	BRYAN CONROE
CHECKED BY:	BRYAN CONROE
DATE:	02/26/19
BY:	APP
COMMENT:	

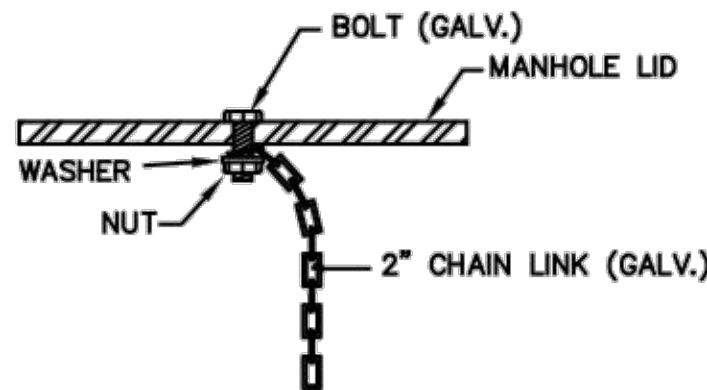
TEMPORARY EROSION CONTROL PLAN	WOODSON ROAD & BLUEBERRY HILL DRIVE ROADWAY IMPROVEMENTS
DESIGN: CARL RUSHING	CAD: WSW RW: JMS
PROJECT NO: 12700	SHEET: 13 OF: 17

STATE OF TEXAS	CARL RUSHING	121777	PROFESSIONAL ENGINEER
3/11/2021			

3/12/2021 7:52:34 AM
F:\12700S\12700 WOODSON ROAD & BLUEBERRY HILL DR. ROADWAY IMPROVEMENTS\04 CAD\CD-12700\14 OAK RIDGE NORTH STORM DETAILS.DWG
CRUSHING
ORIGINAL LAYOUT SIZE - 22X34

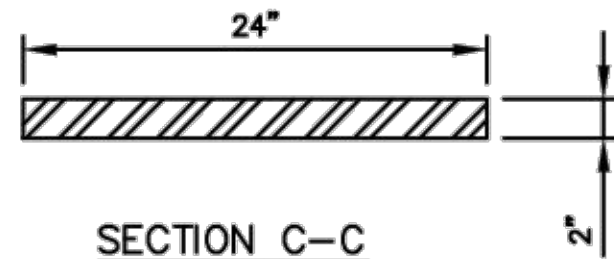


PLAN OF COVER

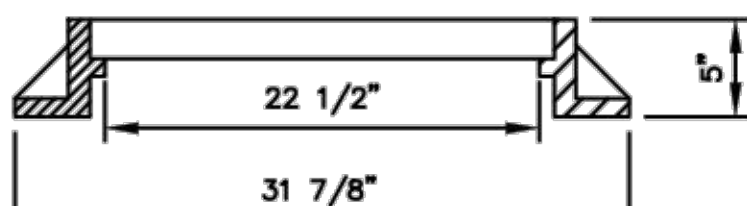


SECTION OF COVER

- NOTES:
1. MANHOLE COVER AND FRAME SHALL BE BASS & HAYES NO. VRM30.
 2. THE MANHOLE COVER SHALL BE SECURED TO THE INSIDE WALL OF THE MANHOLE AND THE COVER WITH A 2" LINK GALVANIZED CHAIN, BOLT, WASHER AND NUT. THE CHAIN SHOULD BE LONG ENOUGH TO REMOVE COVER AND PROVIDE EASY ACCESS INTO THE MANHOLE.

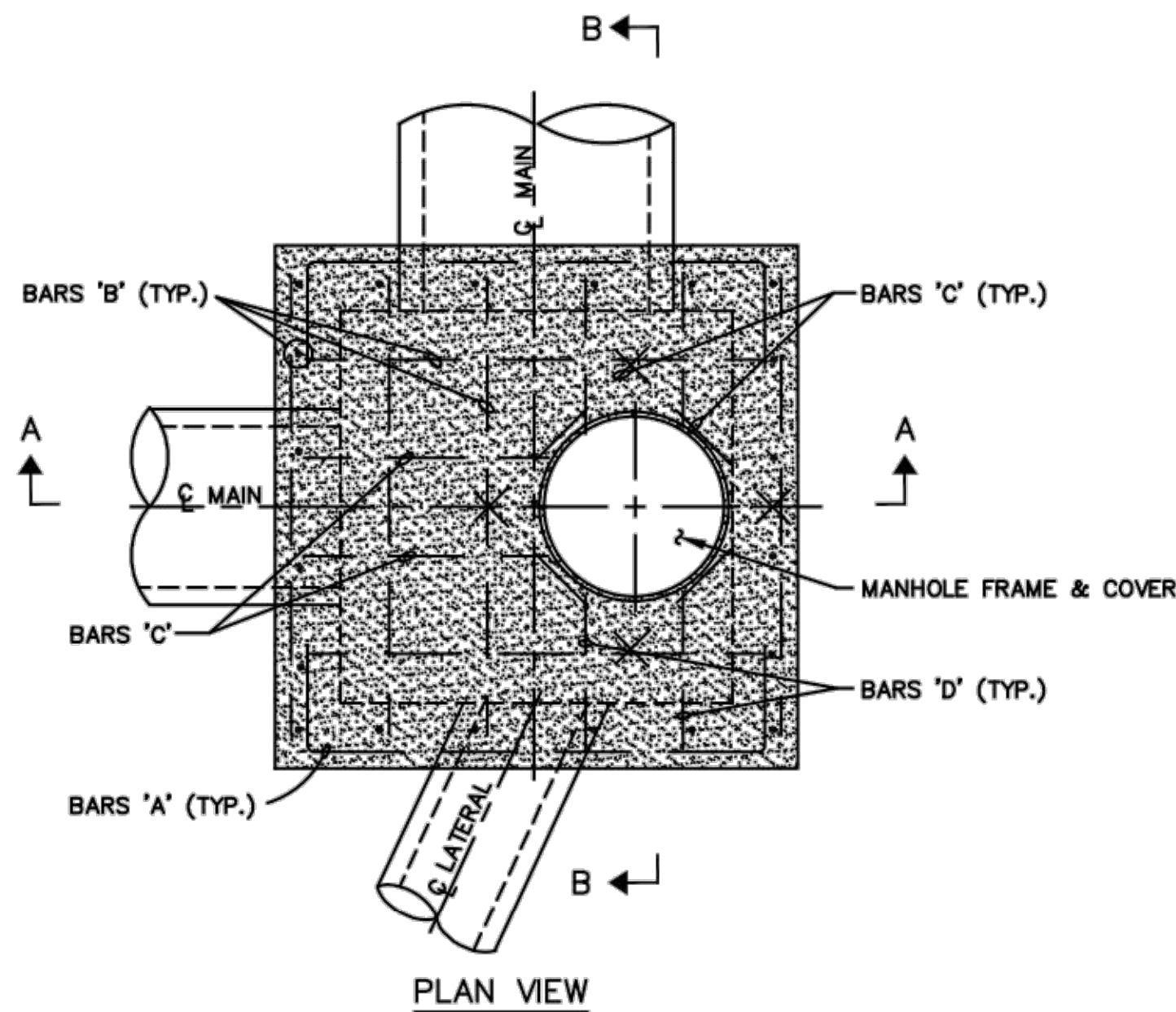


SECTION C-C

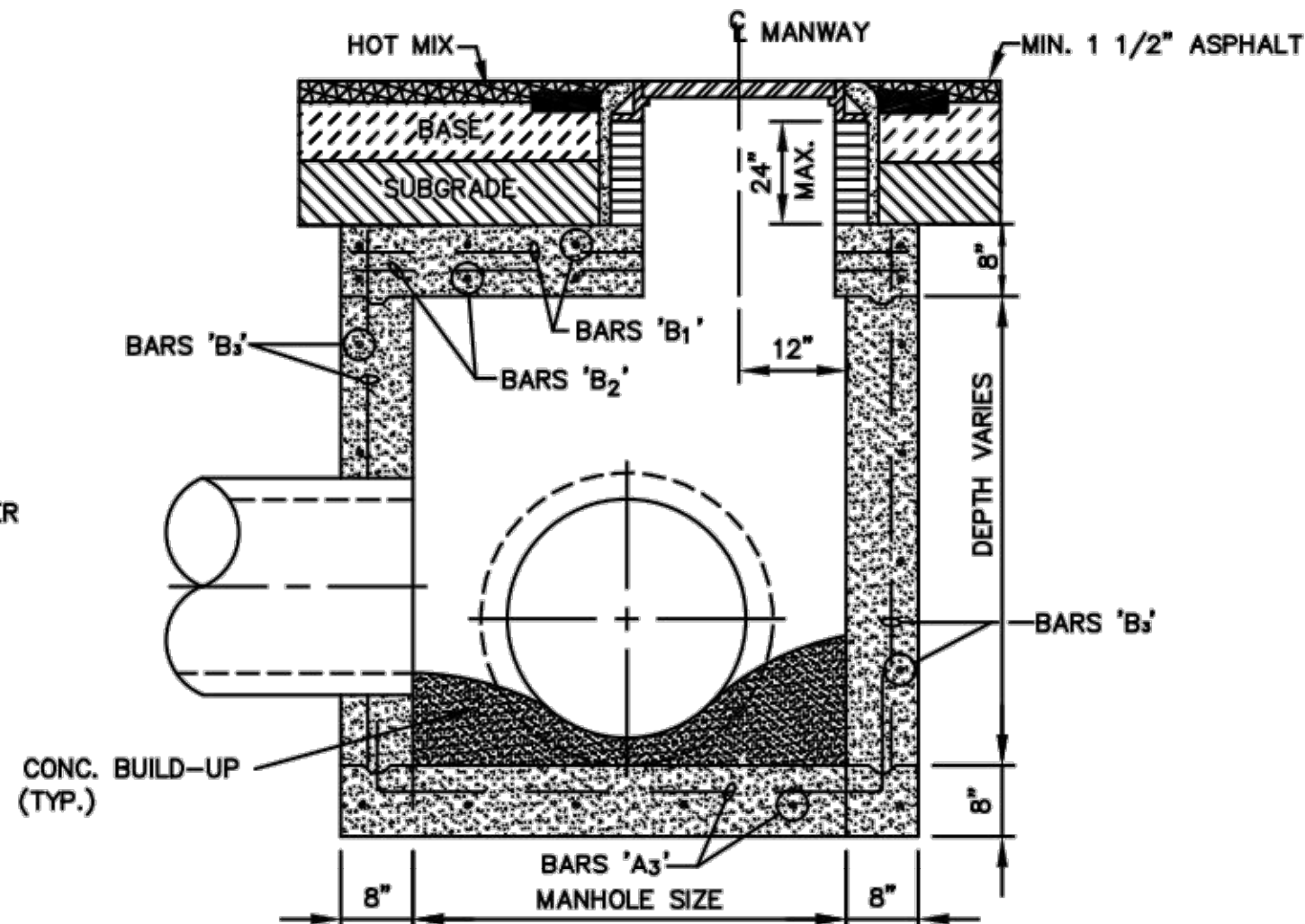


SECTION OF FRAME

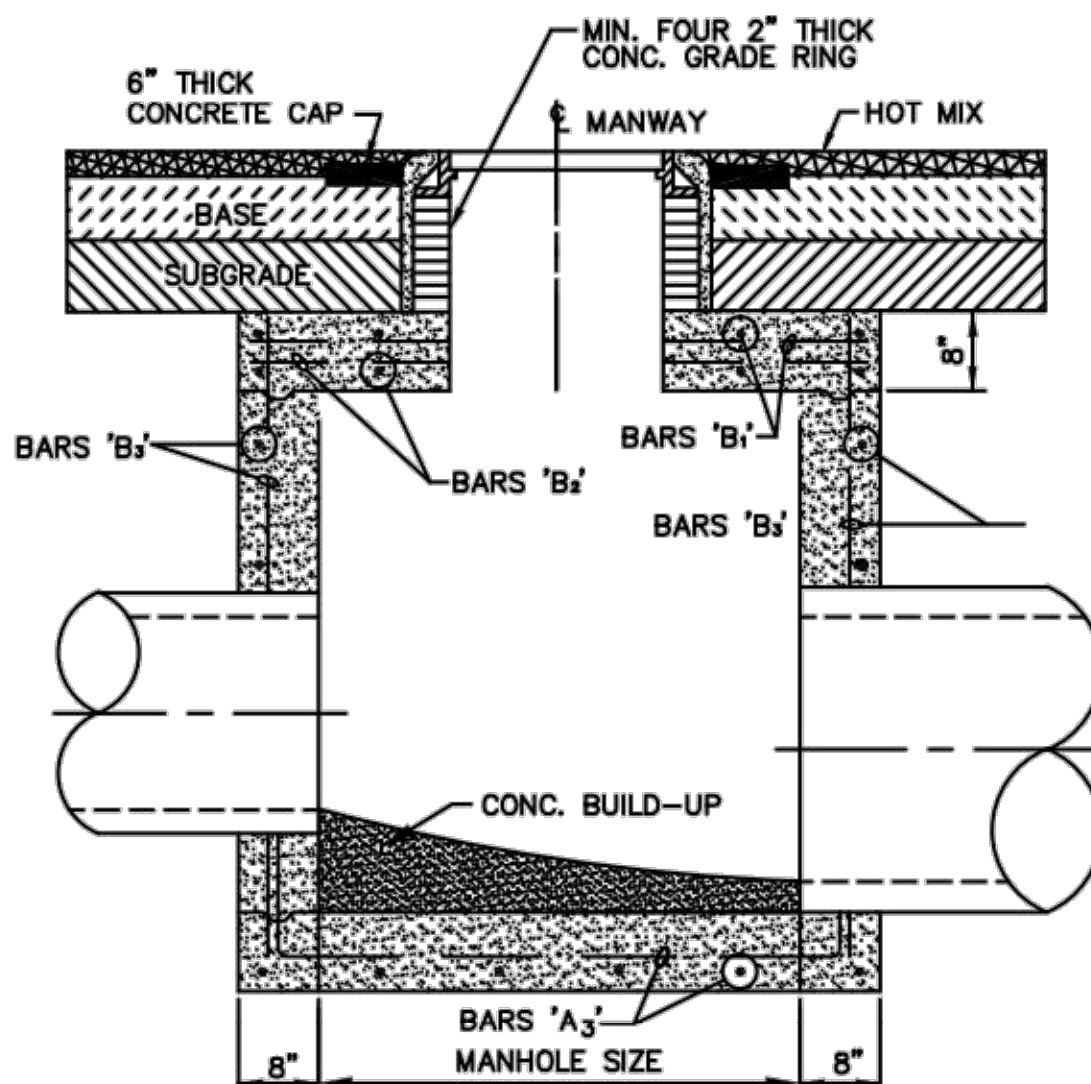
MANHOLE FRAME AND COVER



PLAN VIEW



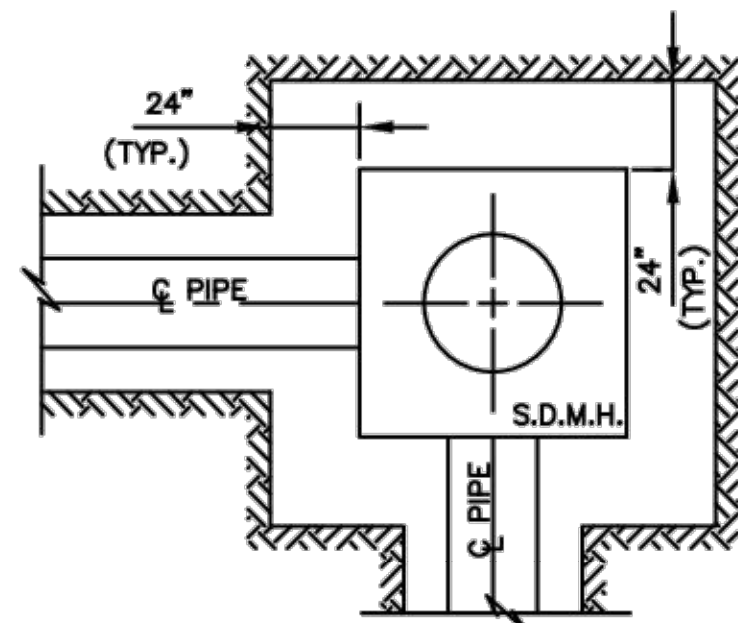
SECTION A-A



SECTION B-B

- STORM DRAIN GENERAL NOTES:
1. CLASS "A" CONCRETE (3000 PSI @ 28 DAYS) SHALL BE USED FOR ALL STRUCTURES.
 2. ALL DIMENSIONS FOR REINFORCING STEEL ARE AT THE CENTER LINE OF THE BARS, UNLESS OTHERWISE NOTED.
 3. MANHOLES ARE REQUIRED AT ALL PIPE JUNCTIONS, CHANGES IN DIAMETER OF PIPE AND AT EVERY 500'.
 4. MANHOLES BOTTOMS SHALL BE SHAPED TO MEET INVERTS OF PIPES.
 5. THE BACKFILL AROUND THE MANHOLE SHALL BE SELECT MATERIAL LAID IN 8" LIFTS AND MECHANICALLY TAMPED.
 6. CHAMFER ALL THE EXPOSED CORNERS 3/4" UNLESS OTHERWISE NOTED.
 7. WIDTH OF TRENCH AT TOP OF PIPE SHALL NOT EXCEED O.D. OF PIPE PLUS 24 INCHES.
 8. IF TRENCH BOTTOM IS DEEMED UNSTABLE, SOFT, SPONGY OR OTHERWISE UNSUITABLE MATERIAL BY CITY ENGINEER OR HIS REPRESENTATIVE, A CRUSHED STONE (AGGREGATE GRADE 4) COMPACTED TO 90% STANDARD PROCTOR DENSITY TO VARIABLE DEPTH, SHALL BE REQUIRED TO REPLACE THE UNSUITABLE SOIL.
 9. WHEN THE TRENCH OR EXCAVATION EXCEEDS THE 5' DEPTH, THE CONTRACTOR SHALL MEET OR EXCEED O.S.H.A. STANDARDS FOR TRENCH SAFETY.

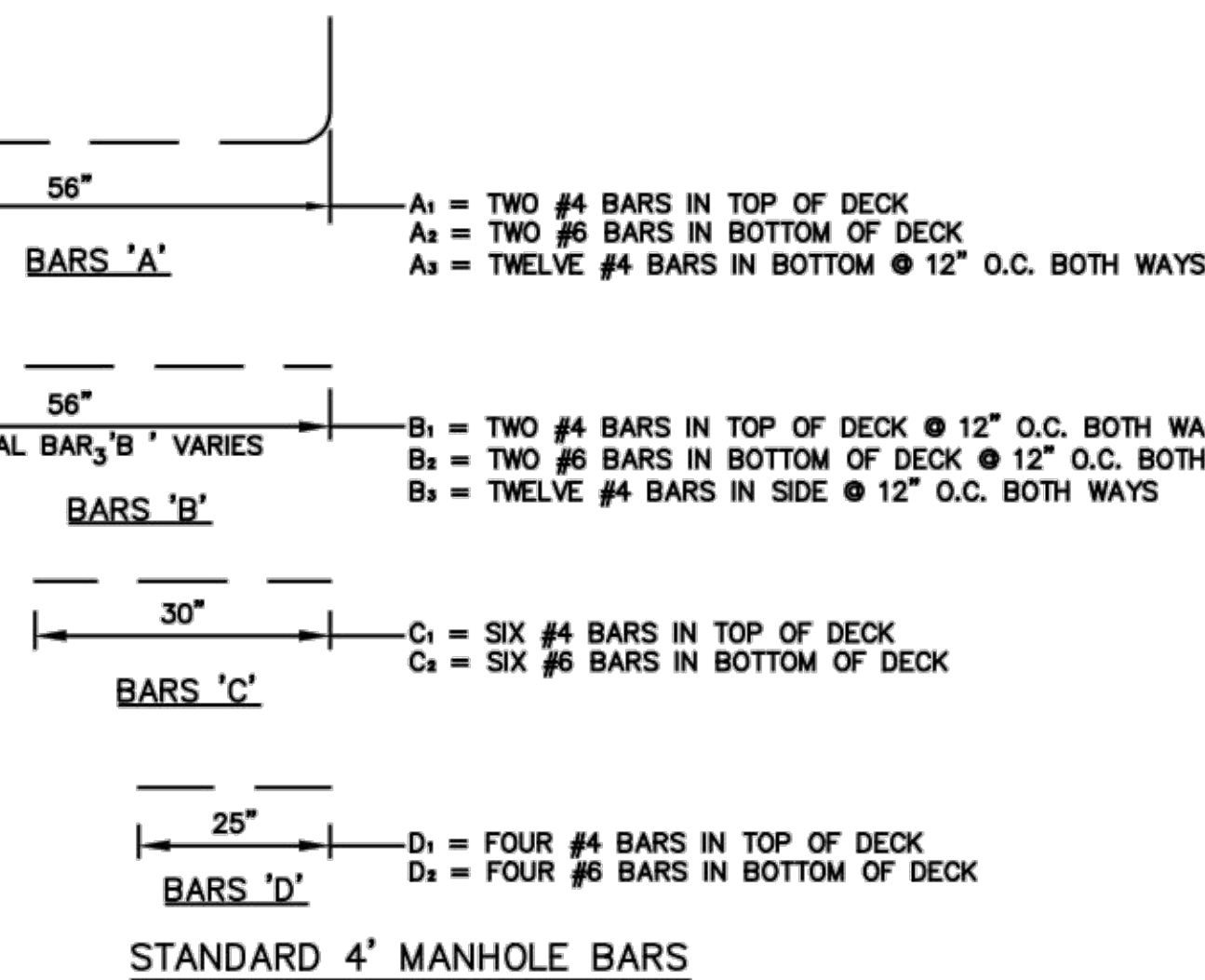
- SELECT MATERIALS NOTES:
1. SELECT MATERIAL SHALL BE IN 8" LIFTS (MAX.), COMPACTED TO 95% STANDARD PROCTOR DENSITY BY TAMPING.
 2. IF SELECT GRAVEL OR SAND BACKFILL IS USED, THE LIFT THICKNESS MAY BE INCREASED TO 15" (MAX.) AND COMPACTED BY VIBRATOR TAMPING.
 3. THE EXCAVATED MATERIAL MAY BE USED AS "SELECT BACKFILL" ONLY UPON APPROVAL OF THE CITY.
 4. THE CITY MAY REQUIRE SOILS COMPACTION TEST, EVERY OTHER LIFT AND EVERY 200 L.F. THE EXPENSE IS TO BE BORNE BY CONTRACTOR OR UTILITY COMPANY.



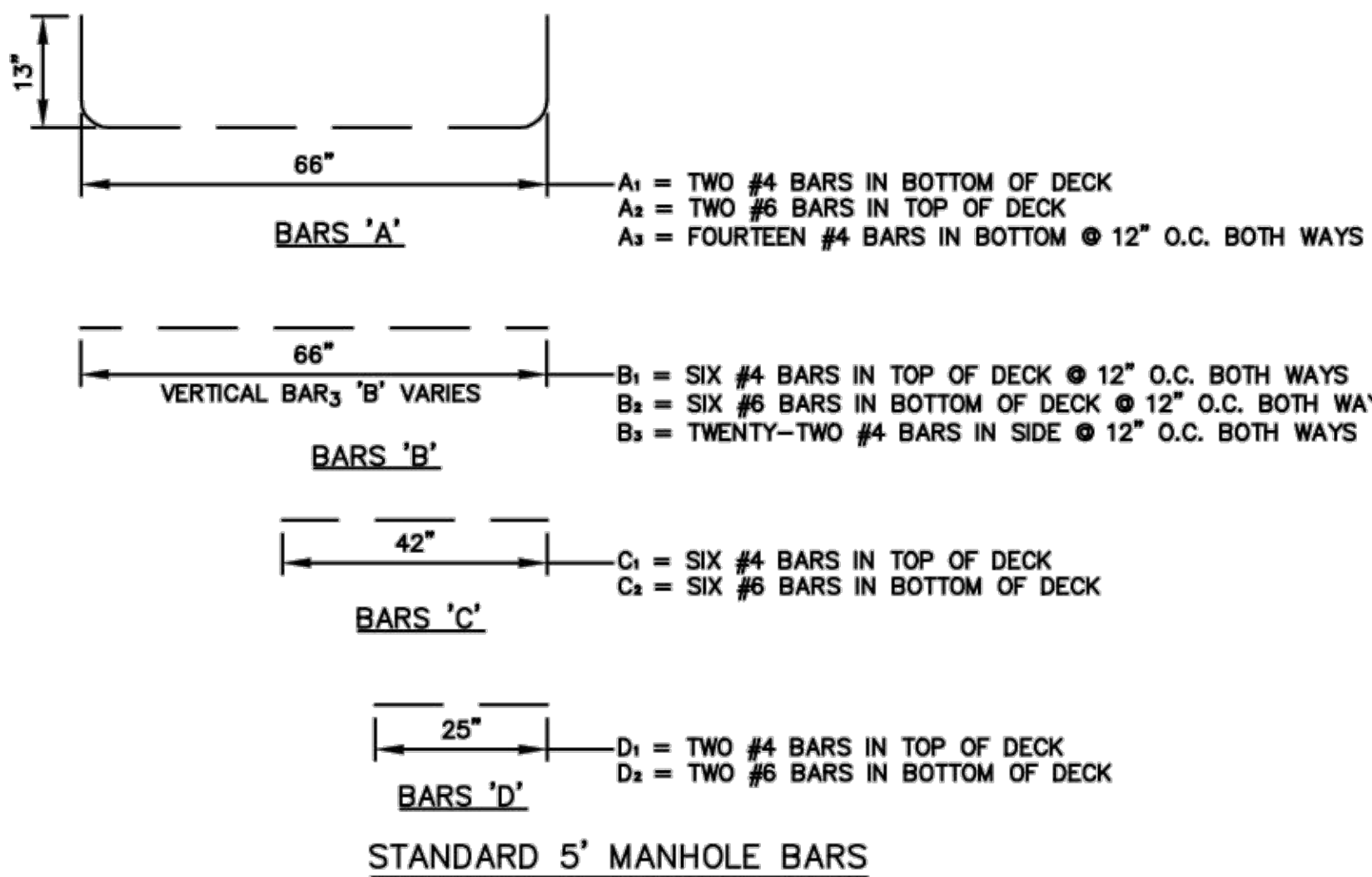
PIPE DIAMETER (INCH)	DISTANCE BETWEEN PIPES (INCH)	DISTANCE BETWEEN PIPE AND TRENCH ON EACH SIDE
18	9	9"
24	11	"
30	13	"
36	15	1/3 DIA. METER OF PIPE
42	17	"
48	19	"
54	23	"
60 TO 84	24	"

STREET REPAIR AT STORM DRAIN MANHOLE

STORM DRAIN DETAILS						
STANDARD STORM DRAIN MANHOLE AND COVER						
PUBLIC WORKS DEPARTMENT						
27424 ROBINSON ROAD OAK RIDGE NORTH, TEXAS 77385						
DESIGN	DRAWN	CHECKED	DATE	SCALE	REVISED	SHEET NO.
JMS	C.O.R.N.	JMS	JAN. 2014	N.T.S.	JAN. 2014	STD. DTL. SD1 of 4



STANDARD 4' MANHOLE BARS



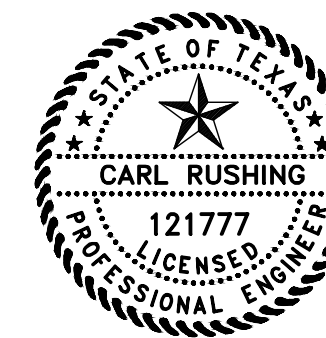
STANDARD 5' MANHOLE BARS

STANDARD STORM DRAIN MANHOLE

PREPARED FOR:
CITY OF OAK RIDGE NORTH
27424 ROBINSON ROAD
OAK RIDGE NORTH,
TEXAS 77385
281-292-4648

BLEYL ENGINEERING
PLANNING • DESIGN • MANAGEMENT
100 Nugent Street, Conroe, TX 77301
Texas Firm Registration No. F-678
Tel. 936-441-7833 Fax 936-760-3833
www.bleylengineering.com

OAK RIDGE NORTH STORM DETAILS
WOODSON ROAD & BLUEBERRY HILL
DRIVE ROADWAY IMPROVEMENTS
OAK RIDGE NORTH, TEXAS



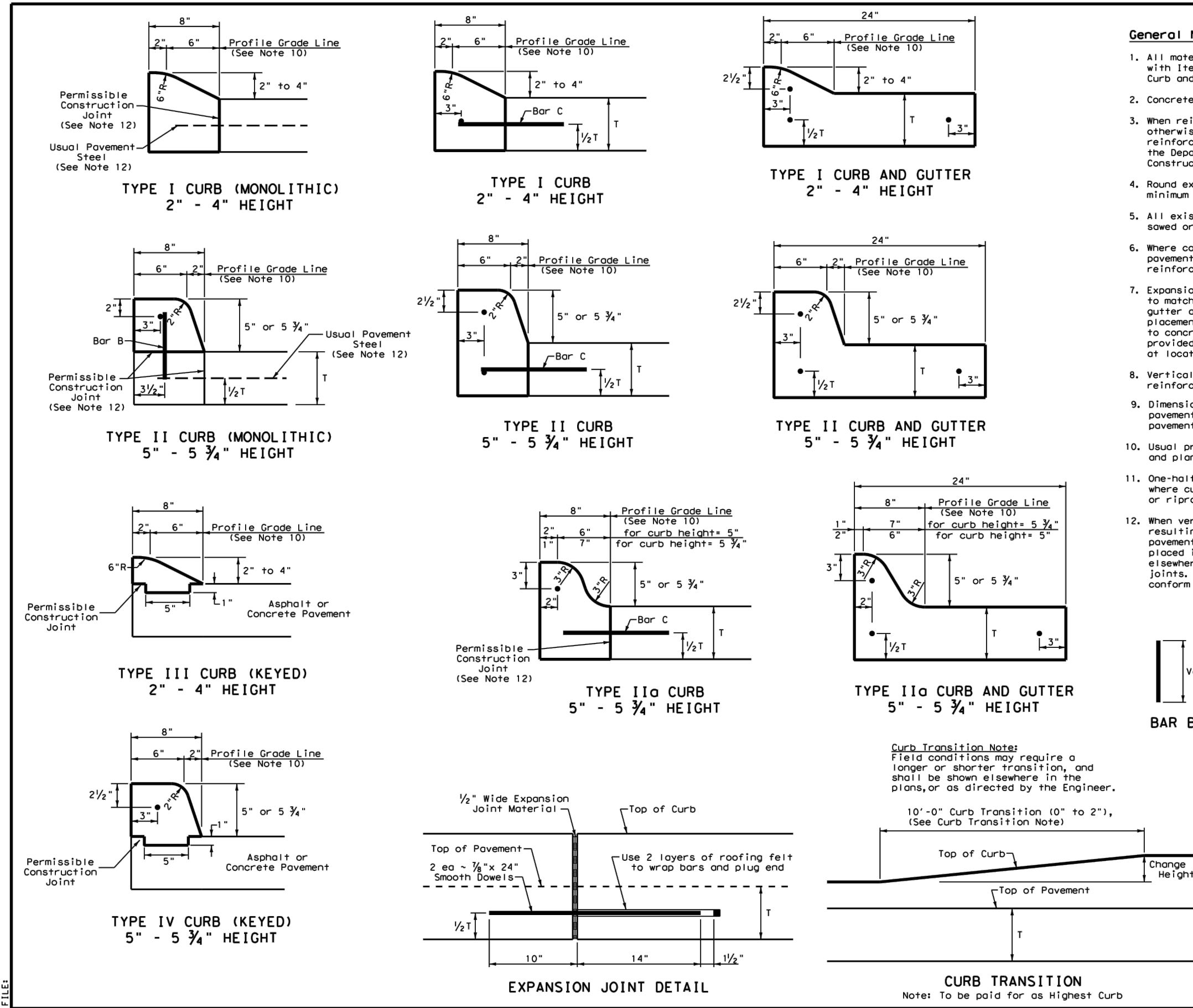
DESIGN: CARL RUSHING
CAD: WSW RWV: JMS
PROJECT NO: 12700
SHEET: 15 OF: 17

CITY ENGINEER
CITY OF OAK RIDGE NORTH
SIGNATURE VALID FOR 1 (ONE) YEAR

DATE

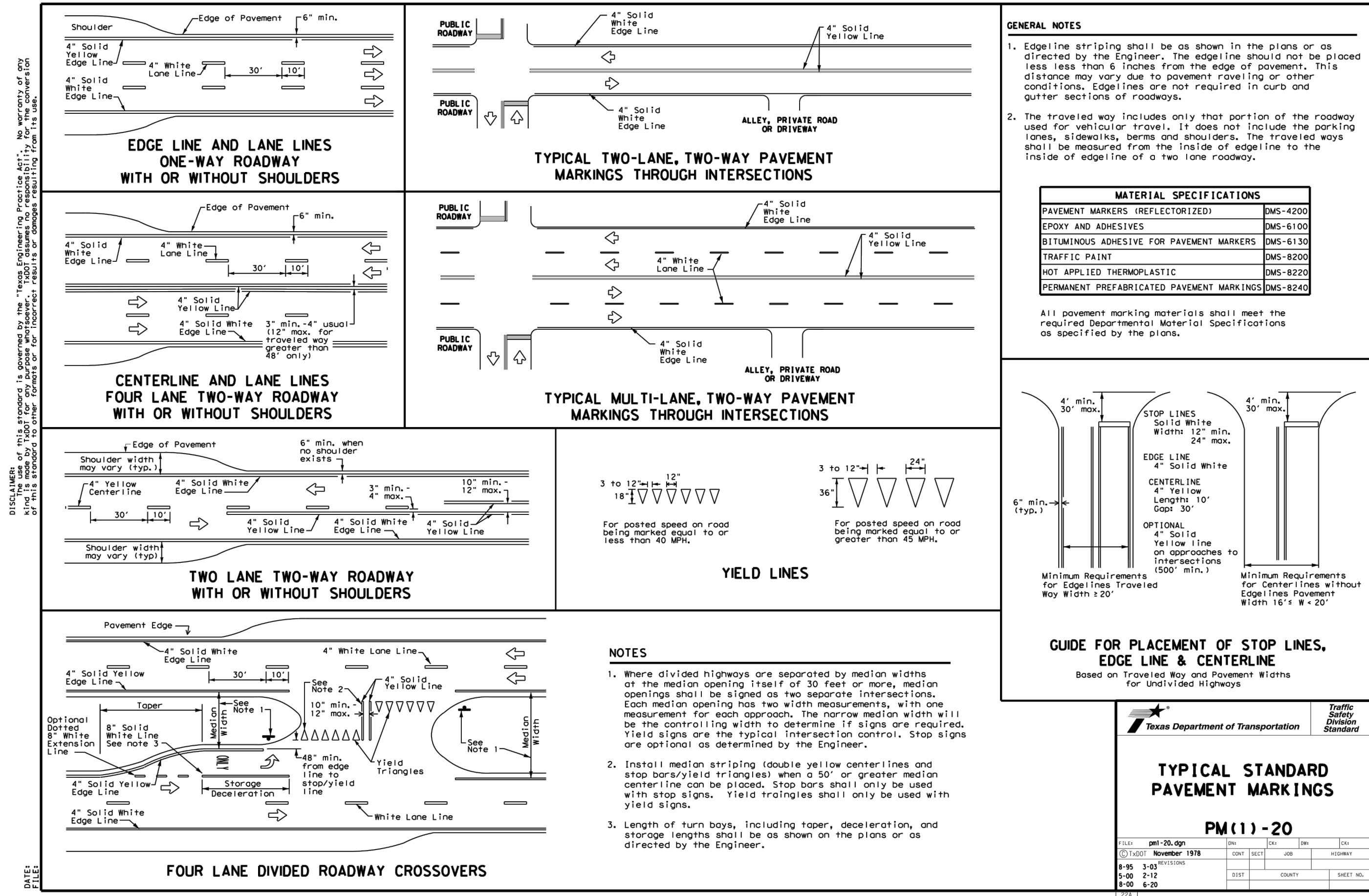
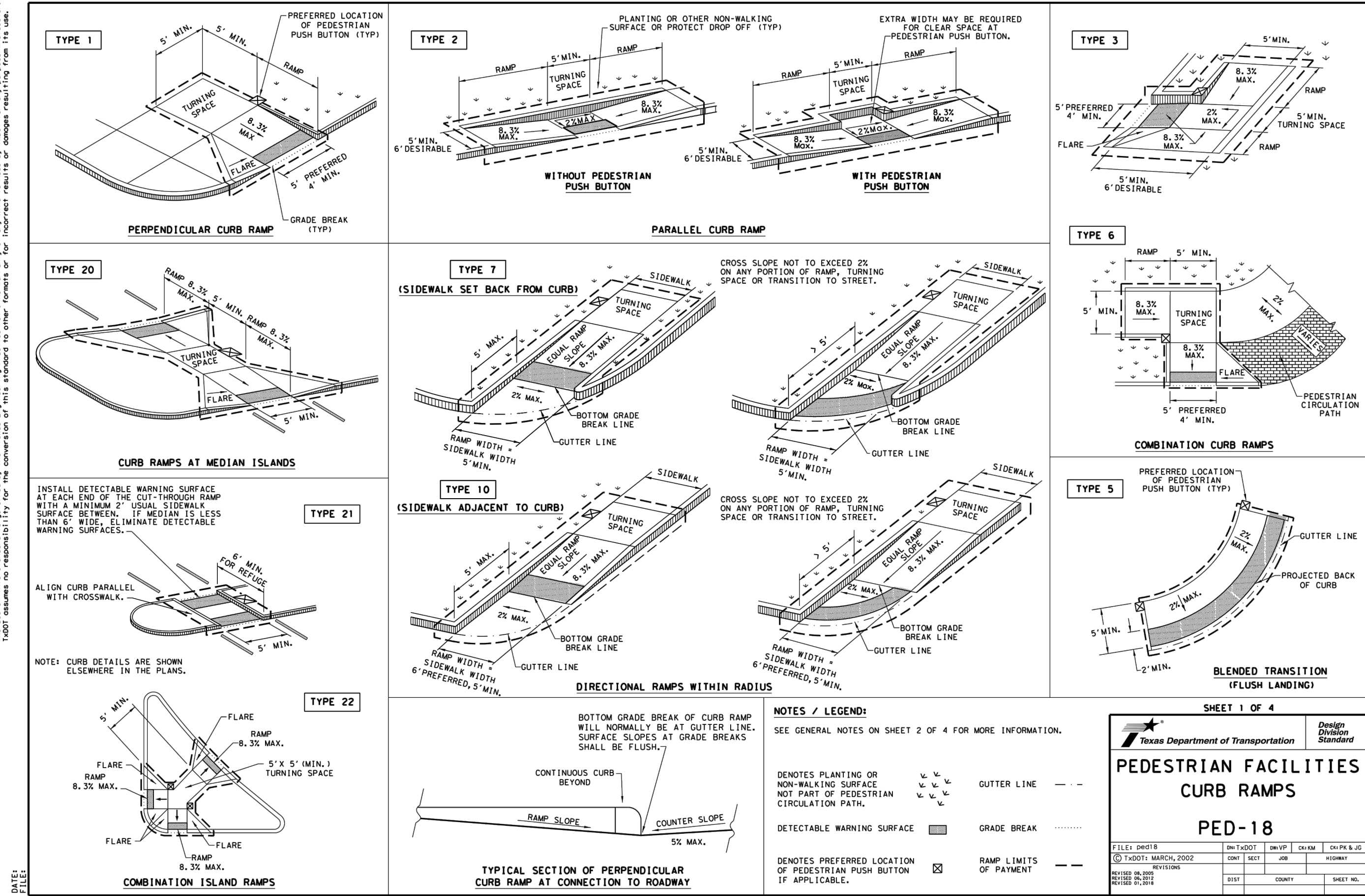
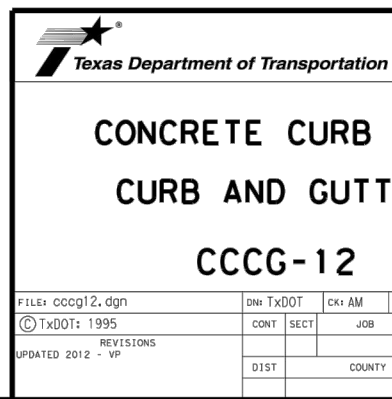
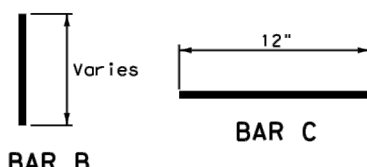
DISCLAIMER:

DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". The use of this standard is for the conversion of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.



General Notes

1. All materials and construction shall be in accordance with Item 529, "Concrete Curb, Gutter, and Combined Curb and Gutter", of the Standard Specifications.
2. Concrete shall be Class A.
3. When reinforcing bars are used, they shall be No. 4 unless otherwise shown. The use of 8" synthetic fiber in lieu of reinforcing is acceptable, provided the fiber producer is listed on the State Product List (SPL), maintained by TxDOT, Construction Division.
4. Round exposed sharp edges with a rounding tool, to a minimum radius of $\frac{1}{4}$ inch.
5. All existing curbs and driveways to be removed shall be sawed or removed at existing joints.
6. Where concrete curb is placed on existing concrete pavement, the pavement shall be drilled and the reinforcing bars grouted in place.
7. Expansion and contraction joints shall be constructed in accordance with the provisions of Item 529, "Concrete Curb and Gutter" adjacent to jointed concrete pavement. Where placement of curb or curb and gutter is not adjacent to concrete pavement, the curb and gutter shall be placed by structures, curb returns at streets, and at the ends of streets.
8. Vertical and horizontal dowel bars and transverse reinforcing bars shall be placed at four feet C-C.
9. Dimension "T" shown is the thickness of concrete pavement. When curb is installed adjacent to flexible pavement, dimension "T" shall be 8" minimum.
10. Usual profile grade line. Refer to typical sections and plan-profile sheets for exact locations.
11. One-half inch expansion joint material shall be provided where curb or curb and gutter is adjacent to sidewalk or existing curb.
12. When vertical permeable construction joints are used, resulting in a longitudinal construction joint in the pavement, the longitudinal pavement steel shall be placed in accordance with the pavement details shown elsewhere in the plans for longitudinal construction joints. The concrete shall be placed and finished in conformance to that required for concrete curb.



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TXDOT DETAILS 1 OF 2

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DRIVE ROADWAY IMPROVEMENTS**

OAK RIDGE NORTH, TEXAS

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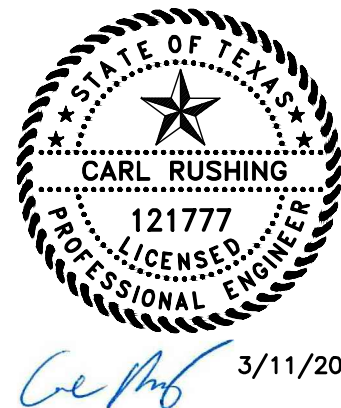
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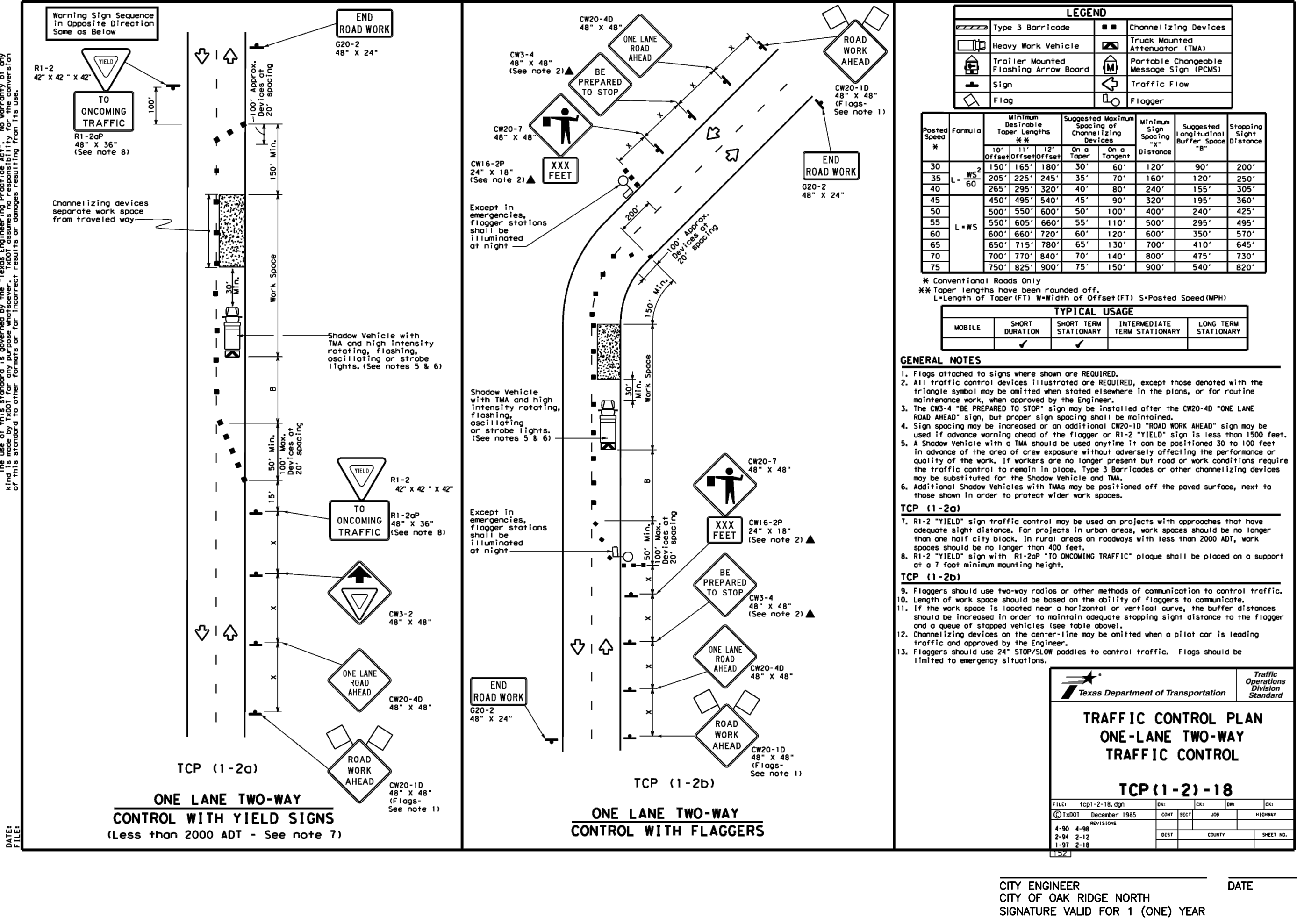
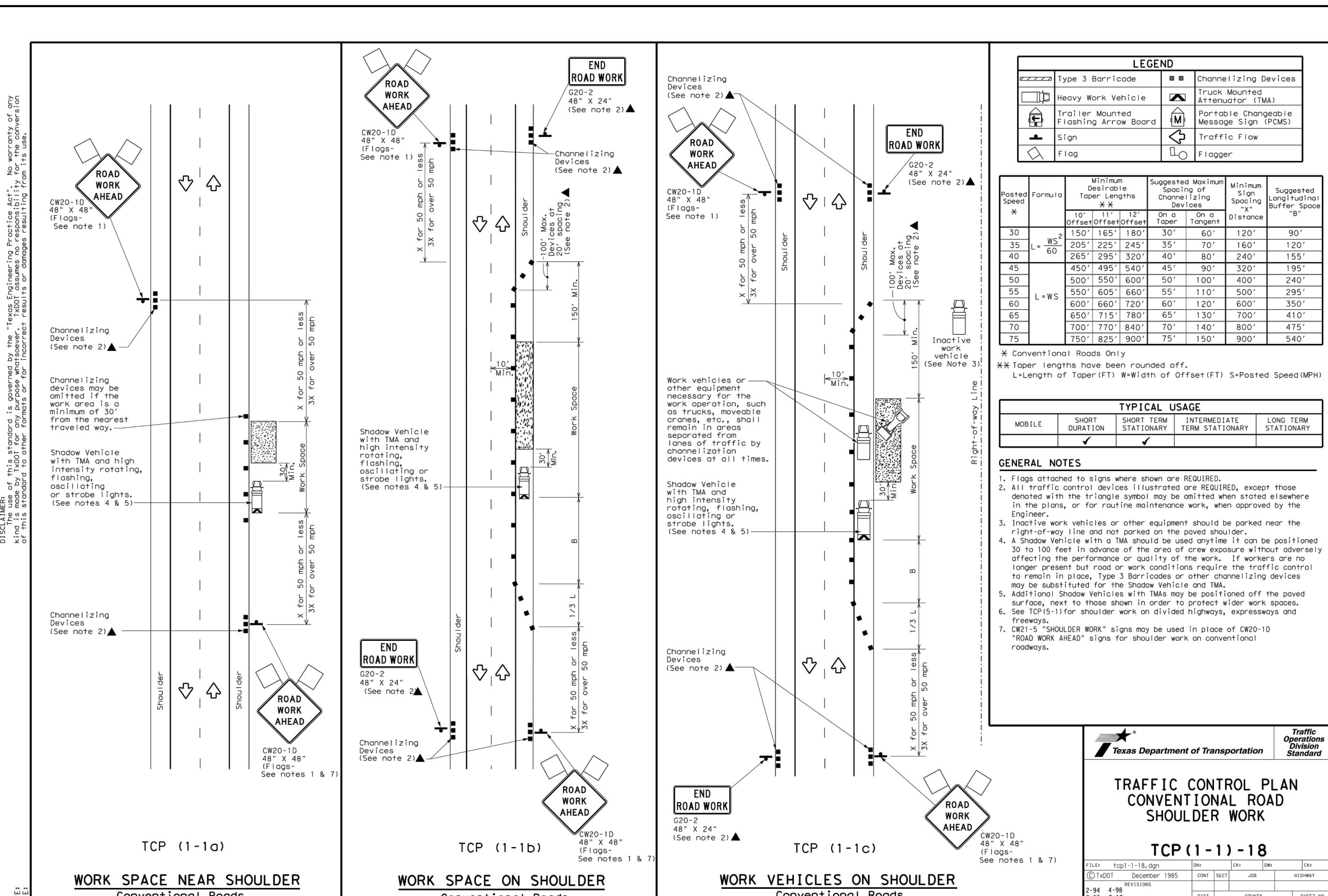
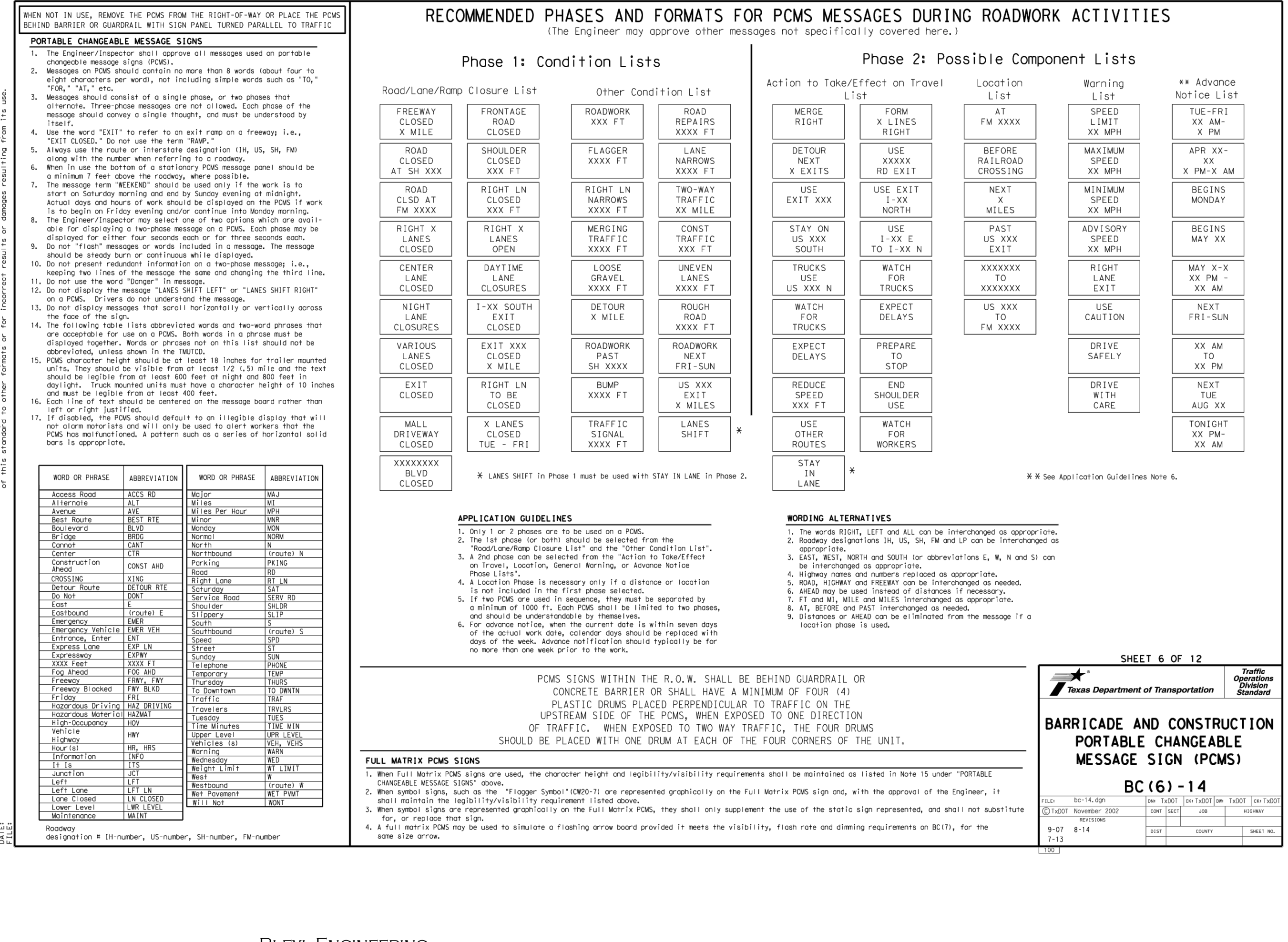
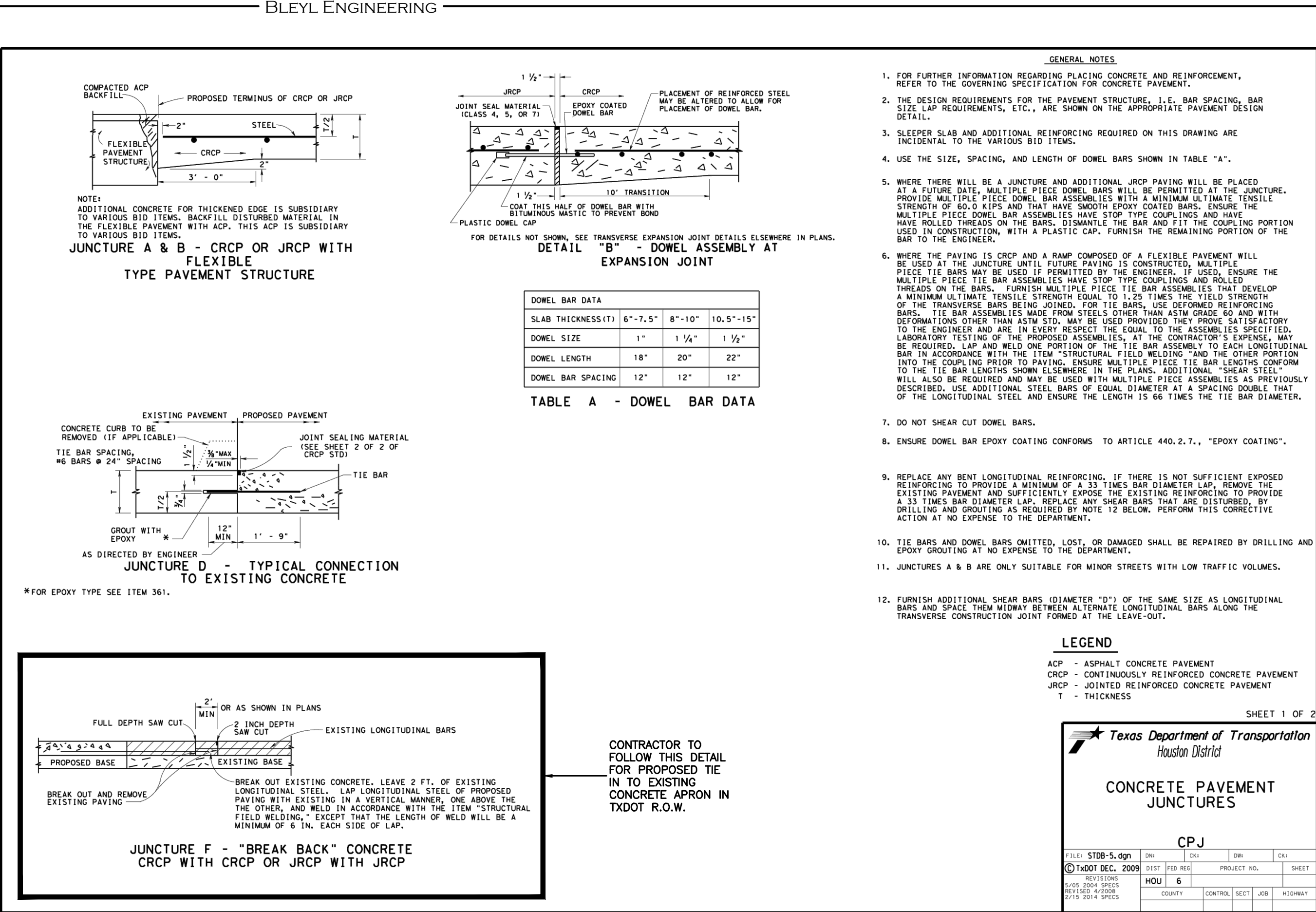
PREPARED FOR:

CITY OF OAK RIDGE NORTH
27424 ROBINSON ROAD
OAK RIDGE NORTH,
TEXAS 77385
281-292-4648

[illegible]

3/11/2021

DESIGN: CARL RUSHING	
CAD: WSW	RVW: JM
PROJECT NO: 12700	
SHEET: 16	OF: 17



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TXDOT DETAILS 2 OF 2
WOODSON ROAD & BLUEBERRY HILL DRIVE ROADWAY IMPROVEMENTS
OAK RIDGE NORTH, TEXAS

PREPARED FOR:
CITY OF OAK RIDGE NORTH
27424 ROBINSON ROAD
OAK RIDGE NORTH, TEXAS 77385
281-292-4648

DESIGN: CARL RUSHING
CAD: WSW RW: JMS
PROJECT NO: 12700
SHEET: 17 OF: 17

STATE OF TEXAS
CARL RUSHING
121777
PROFESSIONAL ENGINEER

3/11/2021

DESIGN: CARL RUSHING
CAD: WSW RW: JMS
PROJECT NO: 12700
SHEET: 17 OF: 17