

SOUTH 11TH STREET IMPROVEMENTS
WEBSTER AVE EAST CURBLINE IMPROVEMENTS
4TH STREET PEDESTRIAN IMPROVEMENTS



CITY OF WACO PUBLIC WORKS DEPARTMENT
STREETS DIVISION
C.O.W. PROJECT#: 18ST2212D

MAYOR
DILLON MEEK

CITY COUNCIL
ANDREA J. BAREFIELD - COUNCIL DIST. 1
ALICE RODRIGUEZ - COUNCIL DIST. 2
JOSH BORDERUD - COUNCIL DIST. 3
KELLY PALMER - COUNCIL DIST. 4
JIM HOLMES - COUNCIL. DIST. 5

CITY MANAGER
BRADLEY FORD

STREET FUNCTIONAL CLASSIFICATION

S. 11TH STREET: ARTERIAL
ADT(2022): 3,000

WEBSTER AVE: LOCAL
ADT(2022): 1,400

4TH STREET: ARTERIAL
ADT(2022): 3,200


PROJECT ENGINEER (COMPLETE & CORRECT)

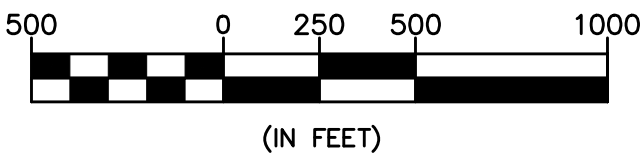
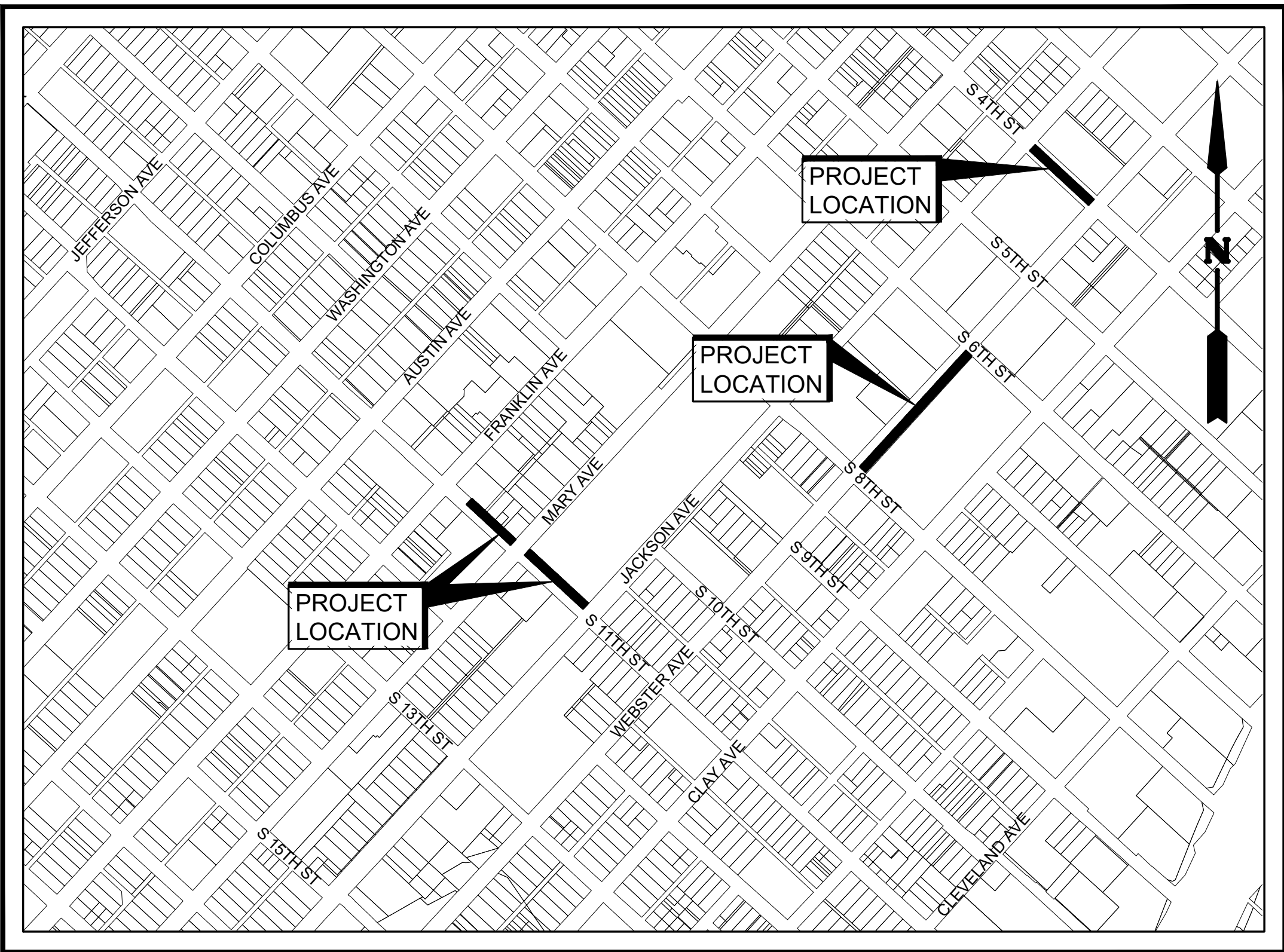


APRIL 14, 2023

DATE

DIRECTOR OF PUBLIC WORKS DEPARTMENT
(APPROVED FOR BIDDING)

DATE



TDLR REGISTRATION #: _____

APRIL 2023



CP&Y, INC.
TEXAS REGISTERED
ENGINEERING FIRM
F-1741

REVISIONS TO PLANS

REV	DATE	BY	DESCRIPTION	SHEETS MODIFIED



C701	STREET SCAPING IMPROVEMENTS STA. 2+00 TO END
C702	SITE GRADING PLAN
C750	CROSS SECTIONS STA. 0+00 TO 0+40
C751	CROSS SECTIONS STA. 0+60 TO 1+00
C752	CROSS SECTIONS STA. 1+20 TO 1+55
C753	CROSS SECTIONS STA. 1+80 TO 2+20
C754	CROSS SECTIONS STA. 2+40 TO 2+80
E1.0	4TH ST ELECTRIC PLAN
E1.1	4TH ST ELECTRIC PLAN
E1.2	4TH ST ELECTRIC PLAN
E1.3	4TH ST ELECTRIC PLAN
E2.1	4TH ST ELECTRIC PLAN

DETAILS

C800	*G1A-CONSTRUCTION MATERIAL SAMPLING AND TESTING MATRIX -1
	*G1B-CONSTRUCTION MATERIAL SAMPLING AND TESTING MATRIX -1
C801	*G3-ROOT BARRIER
	*G7-GENERAL CONCRETE & REINFORCEMENT NOTES
C802	*G9-PAVEMENT/SURFACE REPLACEMENT DETAILS
C803	*ST1-STREET-GENERAL NOTES
	*ST4-STANDARD ALLEY DETAILS
C804	*ST13-VALVE BOX HEIGHT ADJUSTMENT A
	*ST14-VALVE BOX HEIGHT ADJUSTMENT B
C805	*ST15-STANDARD CURB AND GUTTER DETAILS
	*ST20-STANDARD CURB & GUTTER REPLACEMENT DETAILS
C806	*ST24A-STANDARD COMMERCIAL DRIVE APPROACH
	*ST24B-COMMERCIAL DRIVE APPROACH GENERAL NOTES
C807	*SW1-SIDEWALK GENERAL NOTES
	*SW2-SIDEWALK DETAILS LEGEND
C808	*SW3-SIDEWALK DETAILS 1
	*SW4-SIDEWALK DETAILS 2
C809	*T1-TRAFFIC CONTROL PLANS
	*T6-SIGN POST INSTALLATION
C810	*W1-WATER GENERAL AND SERVICE TAP NOTES
	*W3A-GENERAL NOTES: THRUST BLOCKS
C811	*W3B-TYPICAL HORIZONTAL THRUST BLOCK
	*W3C-TYPICAL HORIZONTAL THRUST BLOCK
C812	*W3D-TEE AND PLUG THRUST BLOCKS
	*W6-GATE VALVE AND VALVE BOX
C813	*W7-WATER VALVE BOX EXTENSION INSTALLATION
	*W8-WATER VALVE BOX & WATER VALVE BOX COVER
C814	*W12-TYPICAL COMMERCIAL OR LARGE RESIDENTIAL WATER METER SERVICE CONNECTION
	*W16-CONCRETE WATER METER BOX LID DETAILS

*THE STANDARD DETAILS SPECIFICALLY IDENTIFIED ON THIS SHEET
HAVE BEEN SELECTED BY ME AND ARE APPLICABLE TO THIS PROJECT.

(DFW1324C)

C815 *W17-CONCRETE WATER METER BOX FOR $\frac{3}{4}$ IN. TO 1 IN. METERS (CHRISTY N30)
*W18-CONCRETE WATER METER BOX FOR 1-1/2 IN. METER (CHRISTY B65)

C816 *WP1-STORMWATER POLLUTION PREVENTION
GENERAL NOTES
*WP7A-INLET PROTECTION GENERAL NOTES

C817 *WP7B-FILTER WEIR CURB INLET PROTECTION

C818 SIDEWALK DETAILS

C819 SIDEWALK DETAILS

C820 SIDEWALK DETAILS

C821 SIDEWALK DETAILS

C822 SIDEWALK DETAILS

C823 SIDEWALK DETAILS

C824 SIDEWALK DETAILS

C825 SIDEWALK DETAILS

C826 JOINT DETAILS

C827 JOINT DETAILS

(DFW1324C)

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C821 SIDEWALK DETAILS

C822 SIDEWALK DETAILS

C823 SIDEWALK DETAILS

C824 SIDEWALK DETAILS

C825 SIDEWALK DETAILS

C826 JOINT DETAILS

C827 JOINT DETAILS

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C821 SIDEWALK DETAILS

C822 SIDEWALK DETAILS

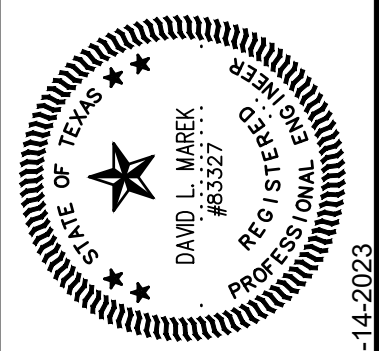
C823 SIDEWALK DETAILS

C824 SIDEWALK DETAILS

C825 SIDEWALK DETAILS

C826 JOINT DETAILS

C827 JOINT DETAILS

[illegible]

CITY OF WACO
SOUTH 11TH STREET IMPROVEMENTS

DRAWING INDEX

DESIGN: DLM
DRAWN: CDG
REVIEW: DLM
CP&Y: CWAC2200923
CLIENT:

SHEET
C100

BENCHMARK
BACK OF CURB
BUILDING LINE
BASELINE
BRG.
B.V.
C-C
CFS
C.I.
C.J.
C
CML
C/O
C/I
CSG
CONC.
CTR.
DBL.
D.E.
D.A.
DET.
DIA.
DIP
DN.
E
E.J.
EA.
ELEV.
E.O.P.
EQ
ER
E.W.
EXP.
EX.
F.H.
FL
F.O.C.
FDN.
FG
FT.
GALV.
G.V.
GRND.
H.P.
H.P.
HW
HWL
HGT.
HM
HMAC
HNDRL.
HZ.
I.D.
IN
INCL.
INV.
JT.
L
L.F.
L.O.G.
L.P.
LT.
LWL
MTL.
MAX.
MED.
MBGF
M.H.
MIN.
MISC.
M.P.
N.
NG
N.I.S.
N.I.C.
NO.
OC
OCEW
O.C.
PC
P.G.L.
POB
PRC
P.S.
PT
P.U.E.
PVC
PVI
PVT
PVC
R
RE
REINF.
REINF.
REV.
R.O.W.
RP
RT.
S
SAN. SWR.
S.D.
S.F.
SY
SHT.
SIM.
SPEC.
SQ.
STA.
STD.
STR.
SYM.
SYS.
TAS
TBM
T/C
T.O.B.
T.O.G.
T.O.S.
TEL.
THK.
TYP.
U.O.N.
V.
VERT.
W
W/
W/O
W.S.E.L.
WWT

BENCHMARK
BACK OF CURB
BUILDING LINE
BASELINE
BEARING
BUTTERFLY VALVE
CENTER TO CENTER
CUBIC FEET PER SECOND
CAST IRON
CONTROL JOINT
CENTERLINE
CORRUGATED METAL PIPE
CLEAN OUT
CURB YARD
CONCRETE CURB & GUTTER
CONCRETE
CENTER
DOUBLE
DRAINAGE AREA
DRAINAGE EASEMENT
DETAIL
DIAMETER
DUCTILE IRON PIPE
DOWN
EAST
EXPANSION JOINT
EACH
ELEVATION
EDGE OF PAVEMENT
EQUAL
END RETURN
EACH WAY
EXPANSION
EXISTING
FIRE HYDRANT
FLOW LINE
FACE OF CURB
FOUNDATION
FINISHED GROUND
FOOT (FEET)
GALVANIZED
GATE VALVE
GROUND
HORSE POWER
HIGH POINT
HEAD WATER
HIGH WATER LEVEL
HEIGHT
HYDRAULIC GRADE LINE
HOT-MIXED ASPHALTIC CONCRETE
HANDRAIL
HORIZONTAL
INSIDE DIAMETER
INCH
INCLUDE(D) (ING)
INVERT
JOINT
LENGTH
LINEAR FOOT
LIP OF GUTTER
LOW POINT
LEFT
LOW WATER LEVEL
MATERIAL
MAXIMUM
MEDIUM
METAL BEAM GUARD FENCE
MANHOLE
MINIMUM
MISCELLANEOUS
MID POINT
NORTH
NATURAL GROUND
NOT TO SCALE
NOT IN CONTRACT
NUMBER
ON CENTER
ON EACH WAY
OD
POINT OF CURVATURE
PROPOSED GRADE LINE
POINT OF BEGINNING
POINT OF REVERSE CURVATURE
POUNDS PER SQUARE INCH
POINT OF TANGENCY
PUBLIC UTILITY EASEMENT
POINT OF VERTICAL CURVATURE
POINT OF VERTICAL INFLECTION
POINT OF VERTICAL TANGENCY
POLYVINYL CHLORIDE
RADIUS
REFERENCE
REINFORCE(D)
REQUIRED
REVISION
RIGHT OF WAY
RADIUS POINT
RIGHT
SOUTH
SANITARY SEWER
STORM DRAIN
SQUARE FOOT
SQUARE YARD
SHEET
SIMILAR
SPECIFICATION
SQUARE
STATION
STANDARD
STRUCTURE
SYMMETRICAL
SYSTEM
TERMINAL ANCHOR SECTION
TEMPORARY BENCHMARK
TOP OF CURB
TOP OF BANK (BERM)
TOP OF GRATE
TOE OF SLOPE
TELEPHONE
THICK
TYPICAL
UNLESS OTHERWISE NOTED
VELOCITY
VERTICAL
WEST
WITH
WITHOUT
WATER SURFACE ELEVATION
WEIGHT
WELDED WIRE FABRIC

● = 1/2" DIAMETER REBAR FOUND, UNLESS OTHERWISE NOTED
 ○ = 1/2" DIAMETER REBAR WITH CAP PLACED, UNLESS OTHERWISE NOTED
 ■ = 1/2" DIAMETER REBAR FOUND IN CONCRETE, UNLESS OTHERWISE NOTED
 □ = 1/2" DIAMETER REBAR PLACED IN CONCRETE, UNLESS OTHERWISE NOTED
 M.C.D.R. = McLENNAN COUNTY DEED RECORDS
 M.C.O.P.R. = McLENNAN COUNTY OFFICIAL PUBLIC RECORDS
 () = DEED CALL/PLATTED CALL
 [] = ADJOINER CALL
 —W— = WASTE WATER LINE
 Ⓜ = WASTE WATER MANHOLE
 Ⓞ = WASTE WATER CLEANOUT
 —E— = OVERHEAD ELECTRIC LINE
 —UE— = UNDERGROUND ELECTRIC LINE
 ⚡ = POWER POLE
 ☆ = LIGHT POLE
 ← — = GUY WIRE
 TV = TELEVISION RISER
 —T— = OVERHEAD TELEPHONE LINE
 —UT— = UNDERGROUND TELEPHONE LINE
 T = TELEPHONE RISER
 Ⓢ = TELEPHONE MANHOLE
 —SD— = STORM SEWER LINE
 Ⓟ = STORM DRAIN MANHOLE
 —G— = GAS LINE
 Ⓜ = GAS METER
 —W— = WATER LINE
 Ⓜ = WATER METER
 X = WATER VALVE
 ⦿ = FIRE HYDRANT
 ✕ = WATER SPRINKLER
 ⦿ = WATER SPRINKLER CONTROL VALVE
 ⊕ = TEMPORARY BENCHMARK
 —S— = SIGN
 📧 = MAILBOX
 ⊕ = SOIL BORING
 🌳 = TREE
 🌳 = SHRUB
 —X— = FENCE
 [] = ASPHALT
 [] = CONCRETE
 [] = COVERED AREA

	GRAVEL
	ROCK RIPRAP, GABIONS
	PAVEMENT
	CONCRETE
	CRUSH LIMESTONE
	SAND
	FILL, HORIZONTAL
	NATURAL GROUND
	COMPACTED FILL (SUBGRADE)

WATER PLAN

1" GATE VALVE
AIR RELEASE VALVE
F.H. ASSY.
T.S. & V.
REDUCER
45 DEG BEND
TEE
CROSS
CAP
METER
PROP. (12") WATER LINE
DOUBLE METER

WATER PROFILE

EXISTING GRADE
STA. (1) VALVE
STA. (2) TEE
STA. (4) FIRE HYDRANT
STA. (6) REDUCER
STA. (8) AIR RELEASE VALVE

WASTE WATER PLAN

STA. (1) 4" DIA. MANHOLE
SINGLE SERVICE
SINGLE CLEANOUT
PROP. (12") WASTE WATER

EXISTING CONTOURS

PROPOSED CONTOURS

DRAINAGE WAY

DRAINAGE AREAS

MATCH LINE

MATCHLINE STA. 0+00

SECTION NO.

SHEET NO.

DETAIL NO.

SHEET NO.

DRAINAGE JUNCTION NO.

INLET NUMBER

REVISION NO.

CP/TBM No.	DESCRIPTION
SOUTH 11TH ST IMPROVEMENTS THE BEARINGS SHOWN HEREON ARE GRID BEARINGS AND ARE BASED ON GPS OBSERVATIONS, AND THE NAD 83 HORIZONTAL DATUM. THE PLANE COORDINATE SYSTEM, CENTRAL ZONE (4203), NORTH AMERICAN DATUM OF 1983. THE COORDINATE VALUES SHOWN ARE GRID VALUES. DISTANCES ARE IN SURFACE TO CONVERT TO GRID APPLY THE PROJECT SCALE FACTOR OF 1.00012	
TBM-1	Cut boxed "X" set in concrete at the northwest corner of the 11th Street and Mary Avenue intersection. 5 feet from the building corner of 225 11th Street. Elevation: 425.35' Northing: 10543205.17 Easting: 3292972.48
TBM-3	Cut boxed "X" set in concrete on the west side of 11th Street and ± 230 feet north of the 11th Street and Mary Avenue intersection. Elevation: 428.30' Northing: 10543345.18 Easting: 3292825.07

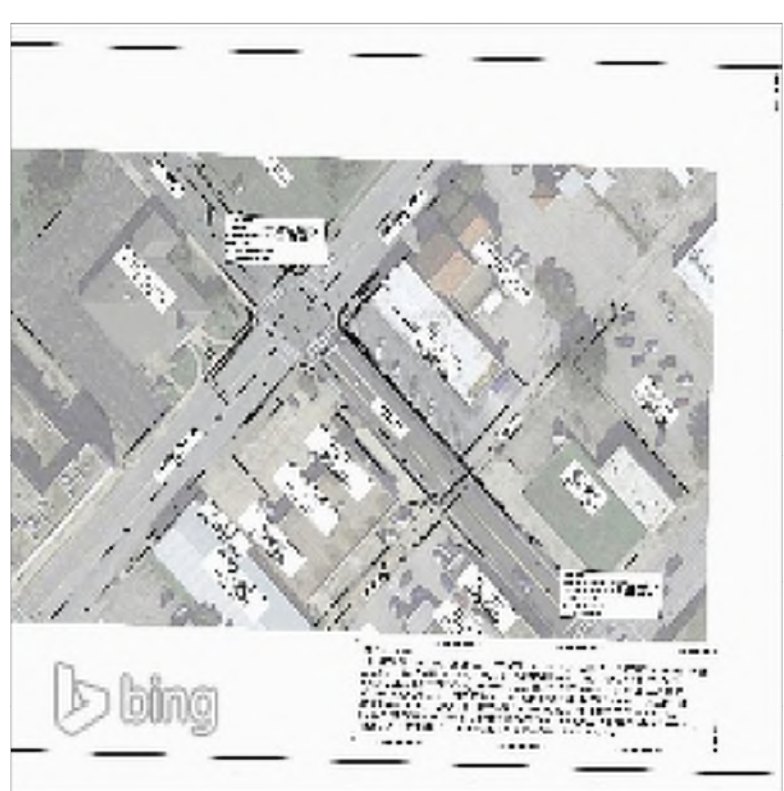
CP-6	BOX CUT WITH "X" ELEVATION = 412.51 NORTHING: 10542365.5780 EASTING: 3294225.2590
TBM-7	BOX CUT WITH "X" (+/-) 370 FEET NORTHEAST OF THE INTERSECTION OF WEBSTER AVE. AND S.8TH ST., (+/-) 30 FEET EAST OF A SANITARY SEWER MANHOLE, (+/-) 1 FOOT EAST OF A WATER VAULT, ALSO BEING THE EAST SIDE OF SIDEWALK ON THE EAST SIDE OF WEBSTER AVE. ELEVATION = 411.08 NORTHING: 10542536.1100 EASTING: 3294380.2850
TBM-8	BOX CUT WITH "X" (+/-) SOUTHEAST OF WEBSTER AVE. AND S. 6TH ST., (+/-) 25 FEET NORTH OF AN ENTRY KEYPAD AT THE ENTRANCE TO THE "VETERAN'S BUILDING" PARKING LOT, IN THE TOP OF CURB AT A HANDICAP RAMP ON THE EAST SIDE OF THE SIDEWALK, ALSO BEING ON THE EAST SIDE OF WEBSTER AVE. ELEVATION= 410.15 NORTHING: 10542725.3660 EASTING: 294552.7660
CP-10	BOX CUT WITH "X" (+/-) 70 FEET EAST OF INTERSECTION FO JACKSON AVE. AN DS. 6TH ST. (+/-) 5 FEET NORTHEAST OF A STORM MANHOLE, ON THE NORTH SIDE OF A CONCRETE SIDEWALK. ALSO BEING NORTH SIDE OF S. 6TH ST. ELEVATION=410.88 NORTHING: 105431058.2500 EASTING: 3294352.1260

TBM-108	BOX WITH "X" CUT IN TOP OF STORM DRAIN CURB INLET AT THE NORTHEAST CORNER INTERSECTION OF 4TH STREET AND WEBSTER AVENUE ELEVATION= 409.06 NORTHING: 10544695.8080 EASTING: 3295599.6440
TBM-109	BOX WITH "X" CUT IN CONCRETE SIDEWALK ON THE SOUTH SIDE OF 4TH STREET (+/-) 220 FEET NORTHWEST OF THE INTERSECTION OF 4TH STREET AND WEBSTER ALSO (+/-) FEET SOUTHEAST OF THE INTERSECTION OF 4TH STREET AND JACKSON AVENUE ELEVATION= 409.00 NORTHING: 10544827.5260 EASTING: 3295363.5270
TRAV -110	MAG NAIL WITH WASHER STAMPED "CP&Y CONTROL" ELEVATION= 409.63 NORTHING: 10544978.5180 EASTING: 3295278.4850
TRAV-111	MAG NAIL WITH WASHER STAMPED "CP&Y CONTROL" ELEVATION= 410.04 NORTHING: 10545028.3570 EASTING: 3295248.8020

THE BEARINGS SHOWN HEREON ARE GRID BEARINGS AND ARE BASED ON GPS OBSERVATIONS, AND THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (4203), NORTH AMERICAN DATUM OF 1983. THE COORDINATES AND DISTANCES ARE IN SURFACE TO CONVERT TO GRID APPLY THE PROJECT SCALE FACTOR OF 1.00012

SOUTH 11TH STREET IMPROVEMENTS

PRINTED BY: emcdougald DATE: 4/12/2023
FILE PATH: G:\Projects\CWAC2200923-11th and Mary\08_Plans_Drawings\20_Sheets\2200923-C10-G1001.dwg, C201



- Test
- Retested / Accepted
- Deviation



7732 Central Park Dr Waco, TX 76712-6535

512-442-1122 terracon.com

Report Number:	Service Date:	Employee:	Scale:
HY221034.0026	10/24/2022	Pierson, Jake	Refer to Drawing

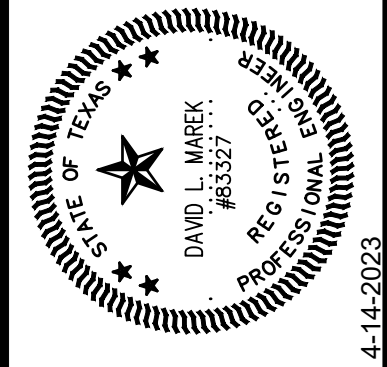
11th Street ADA Ramp Improvements	Exhibit
Coring-Thickness	A-1

CITY OF WACO
SOUTH 11TH STREET IMPROVEMENTS

CORING-THICKNESS MAP

DESIGN: DLM
DRAWN: CDG
REVIEW: DLM
CP&Y: CWAC2200923
CLIENT:

SHEET
C201



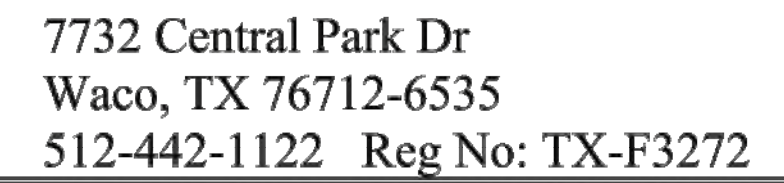
NO.	REVISION	BY	DATE
0	VERIFY SCALE		
1	BAR LENGTH EQUALS ONE INCH ON ORIGINAL		
	DRAWING. VERIFY LENGTH ON THIS SHEET		
	AND ADJUST SCALE ACCORDINGLY.		



CP&Y, INC.
TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741

[Signature]

Report Number: HY221034.0026
Service Date: 10/24/22
Report Date: 10/31/22



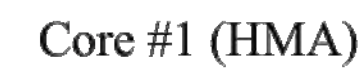
Client
City of Waco TX
Attn: Tracey Graham
PO BOX 2570
Waco, TX 76702-2570

Project
11th Street ADA Ramp Improvements
11th Avenue from Columbus to Ross
Waco, TX 76706

Project Number: HY221034

Core #1: 6-7" of asphalt followed by 10" of sand with gravel, hit a black clay at ~16"

Core #2: 6-7" of asphalt, at about 3-4" it was starting to be heavily deteriorated, (pictured) followed by a cement treated base below. Could not verify the CTB due to extreme hardness. (Drill would not advance, hand auger, or metal pry bar.)



Services:	Asphalt Coring for Measurement of Thickness & Density
------------------	---

Terracon Rep.: Jake Pierson
Reported To: Tracey Graham with City of Waco
Contractor: City of Waco
Report Distribution:
 (1) City of Waco TX, Tracey Graham
 (1) BGE, Inc., Matthew Sh

Reviewed By:

Scott M. Gruenberger
Group Manager

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CP&Y
CP&Y, INC.
TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741

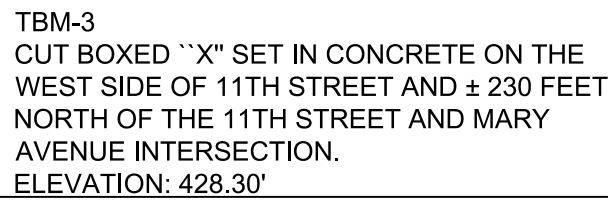
NO.	REVISION	BY	DATE
	VERIFY SCALE		
0	BAR LENGTH EQUALS ONE INCH ON ORIGINAL DRAWING. VERIFY LENGTH ON THIS SHEET AND ADJUST SCALE ACCORDINGLY.		

CITY OF WACO
SOUTH 11TH STREET IMPROVEMENTS

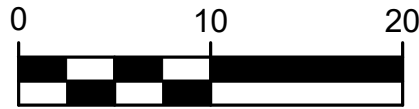
CORING-THICKNESS REPORT

DESIGN: DLM
DRAWN: CDG
REVIEW: DLM
CP&Y: CWAC2200923
CLIENT:

SHEET
C202



TBM-1
CUT BOXED "X" SET IN CONCRETE AT THE
NORTHWEST CORNER OF THE 11TH STREET
AND MARY AVENUE INTERSECTION. 5 FEET
FROM THE BUILDING CORNER OF 225 11TH
STREET.
ELEVATION: 425.35'



SCALE IN FEET



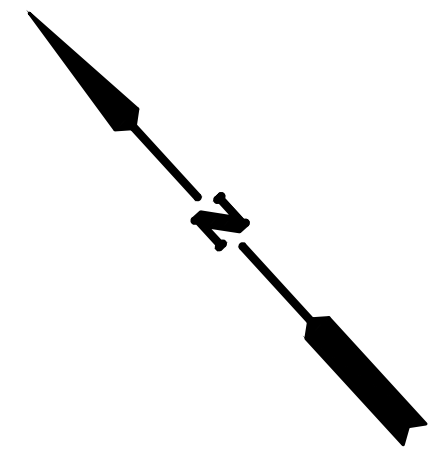
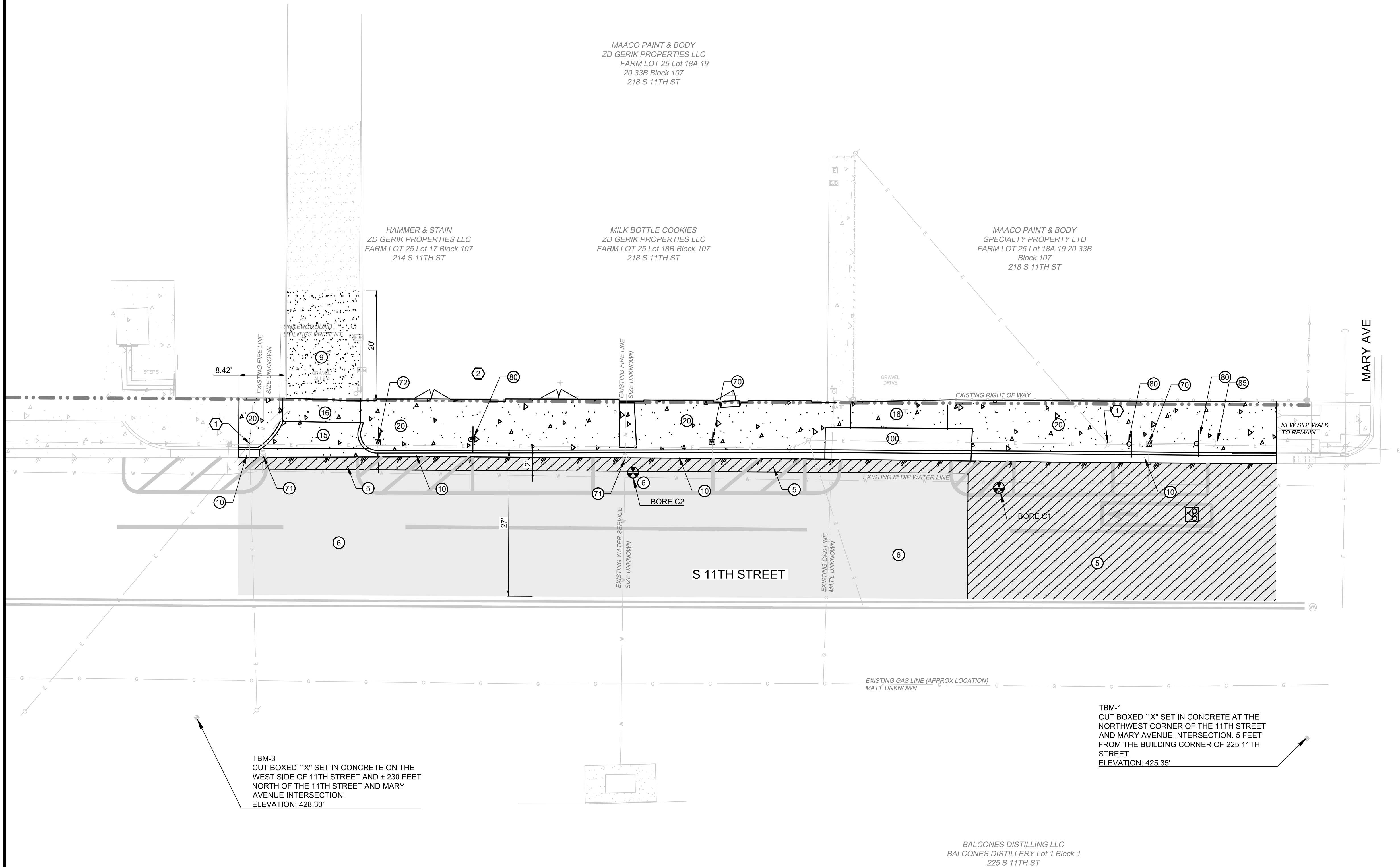
4-14-202

REVISION	BY	DATE
0	1"	VERIFY SCALE BAR LENGTH EQUALS ONE INCH ON ORIGINAL DRAWING. VERIFY LENGTH ON THIS SHEET AND ADJUST SCALE ACCORDINGLY

EXISTING SURVEY

DESIGN: DLM
DRAWN: CDG
REVIEW: DLM
CP&Y: CWAC2200996
CLIENT:

SHEET
C203



DEMOLITION CALLOUTS

- (5) HMAC & BASE (ALL DEPTHS) TO BE SAWCUT, REMOVED, & DISPOSED OFFSITE. CONTRACTOR TO PROVIDE NECESSARY EXCAVATION AND/OR FILL TO OBTAIN DESIGN SUBGRADE. COST TO BE SUBSIDIARY TO BID ITEM
- (6) HMAC TO BE MILLED (VARIABLE DEPTH)(SEE CROSS SECTION). CONTRACTOR TO DISPOSE OF MILLINGS IN OFFSITE LOCATION.
- (9) UNCLASSIFIED GRAVEL ALLEY (ALL DEPTHS) TO BE REMOVED & DISPOSED OFFSITE. CONTRACTOR TO PROVIDE NECESSARY EXCAVATION AND/OR FILL TO OBTAIN DESIGN SUBGRADE. COST TO BE SUBSIDIARY TO BID ITEM
- (10) CONCRETE CURB OR CURB & GUTTER (ALL TYPES) TO BE SAWCUT, REMOVED & DISPOSED OFFSITE. CONTRACTOR TO REMOVE HMAC & BASE NECESSARY FOR CURB & GUTTER CONSTRUCTION.
- (15) REINFORCED CONCRETE DRIVE APPROACH TO BE SAWCUT, REMOVED & DISPOSED OFFSITE. CONTRACTOR TO PROVIDE NECESSARY EXCAVATION AND/OR PLACEMENT OF SELECT FILL TO OBTAIN DESIGN SUBGRADE. COST TO BE SUBSIDIARY TO BID ITEM
- (16) REINFORCED CONCRETE PAVEMENT (ALL TYPES) TO BE SAWCUT, REMOVED, & DISPOSED OFFSITE. CONTRACTOR TO PROVIDE NECESSARY EXCAVATION AND/OR PLACEMENT OF SELECT FILL TO OBTAIN DESIGN SUBGRADE. COST TO BE SUBSIDIARY TO BID ITEM
- (20) REINFORCED CONCRETE SIDEWALK TO BE SAWCUT, REMOVED, & DISPOSED OFFSITE. CONTRACTOR TO PROVIDE NECESSARY EXCAVATION AND/OR PLACEMENT OF SELECT FILL TO OBTAIN DESIGN SUBGRADE. COST SHALL BE SUBSIDIARY TO REMOVAL BID ITEM.
- (70) EXISTING WATER METER BOX TO BE REMOVED & DISPOSED OFFSITE.
- (71) EXISTING WATER VALVE BOX TO BE REMOVED & DISPOSED OFFSITE.
- (72) EXISTING WATER SERVICE TO BE ABANDONED TO THE MAIN. REPAIR METER FOR REINSTALLATION. EXISTING WATER METER BOX TO BE REMOVED & DISPOSED OFFSITE.
- (80) EXISTING SIGN, POLE & FOUNDATION TO BE REMOVED. RETAIN SIGN FOR REINSTALLATION. POLE FOUNDATION TO BE DISPOSED OFFSITE IN APPROVED LOCATION. INSTALL SELECT FILL IN EXCAVATED VOID. COST OF FILL INSTALLATION TO BE INCIDENTAL TO ITEM OF WORK
- (85) COORDINATE GUY WIRE FOUNDATION WITH REMOVAL OF SIDEWALK WITH UTILITY OWNER
- (100) REMOVE EXISTING UNCLASSIFIED MATERIAL & DISPOSE OFFSITE

SPECIAL PROJECT NOTES

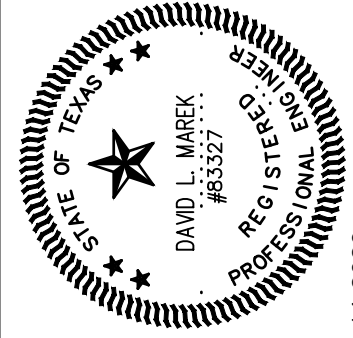
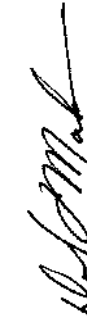
- ① EXISTING WOODEN POLE WITH COMMUNICATION DROP. CONTRACTOR TO BE AWARE THAT PRIVATE UTILITIES MAY BE BENEATH SIDEWALK DURING DEMOLITION ACTIVITIES
- ② CONTRACTOR TO MAINTAIN ACCESS TO BUSINESS DURING NORMAL WORKING HOURS. CONTRACTOR TO PROVIDE MINIMUM 2 HOUR NOTICE PRIOR TO DEMOLITION IN TRAVEL AISLE TO ENTRANCE. CONTRACTOR TO PROVIDE TEMPORARY BOARDWALK TO ENTRANCE. COST TO BE SUBSIDIARY TO DEMOLITION BID ITEM.

!!!CAUTION!!!
EXISTING OVERHEAD UTILITIES IN VICINITY. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR ELECTRIC FACILITIES.

!!!WARNING!!!
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TBPE F-1741



4-14-2023

NO.	REVISION	BY	DATE
0	VERIFY SCALE 1" = 40'		
	BAR LENGTH EQUALS ONE INCH ON ORIGINAL		
	AND MUSICAL EQUIVALENT ON THIS SHEET		
	AND MUSICAL EQUIVALENT ON THIS SHEET		

CITY OF WACO
SOUTH 11TH STREET IMPROVEMENTS

DEMOLITION PLAN

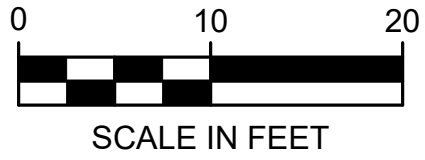
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DRAWN: CDG
REVIEW: DLM
CP&Y: CWAC2200996
CLIENT:

SHEET
C204



!!!CAUTION!!!
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- 1 REINFORCED CONCRETE STANDARD CURB & GUTTER PER C.O.W. STANDARDS
- 10 REINFORCED CONCRETE SIDEWALK PER C.O.W. STD DETAILS, INCLUDING VARIABLE HEIGHT CURB MIN. CROSS SLOPE: 1%
MAX CROSS SLOPE: 2%
VERTICAL DIFFERENCE AT ALL THRESHOLDS TO BE 1/4" MAXIMUM
- 16 ANTIQUE STREET LIGHT. SEE ELECTRICAL PLANS
- 17 5' X 3" TREE WELL W/ ROOT BARRIER PER C.O.W. G-3. INSTALL TREES FROM THE FOLLOWING APPROVED LIST:
 - CHINESE PISTACHE
 - ALLEE ELMS
 - SWEET GUMS
 - CHINKAPIN OAKSMIN TRUNK SIZE: 2"Ø
INSTALL TWO OF SAME VARIETY & ONE OF THE REMAINING LIST CITY OF WACO TO APPROVE
SELECTION VARIETY AND QUANTITY. DWARF SPECIES MAY BE UTILIZED
- 20 REINFORCED CONCRETE DRIVE APPROACH PER C.O.W. DETAIL ST-24A & ST24-B.
- 21 REINFORCED CONCRETE DRIVE APRON PER C.O.W. DETAIL ST-24A.
- 23 REINFORCED CONCRETE ALLEY PER C.O.W. DETAIL ST-4.
- 55 CRACKSEAL NEW ASPHALT EDGES WITH CRAFCO POLYFLEX TYPE 3 OR APPROVED EQUAL
- 72 2" HMAC TYPE 'C' & 2000 PSI CONCRETE BASE PER C.O.W. DETAIL ST-20
- 73 VARIABLE THICKNESS HMAC OVERLAY, TxDOT ITEM 340, TYPE 'C'. INCLUDING TRAIL, HOT APPLIED
- 74 2" HMAC, TxDOT ITEM 340, TYPE 'C', 10" CEMENT STABILIZED BASE, & SUBGRADE COMPACTED TO 95% OF ASTM D1557. INCLUDING ALL NECESSARY EXCAVATION / PLACEMENT OF FILL
- 96 INSTALL NEW WATER METER BOX, FLUSH WITH FINAL SIDEWALK GRADE & ELEVATION PER CITY OF WACO DETAIL W-17 OR W-18. RELOCATE EXISTING METER & CONNECT TO EXISTING SERVICE
- 97 INSTALL NEW WATER VALVE BOX, FLUSH WITH FINAL PAVEMENT GRADE & ELEVATION PER CITY OF WACO DETAIL W-7 OR W-8
- 98 INSTALL NEW POLE & FOUNDATION PER C.O.W. DETAIL ST-6. IN PLACE RETAINED SIGNAGE, IF DAMAGED, CONVOYATOR TO REPLACE SIGN AT NO ADDITIONAL COST TO OWNER.
- 99 INSTALL 2" COMMERCIAL SERVICE, INCLUDING NEW SECTION OF EXISTING METER & CONNECTION TO EXISTING PRIVATE SERVICE
- 101 2-2" SCH-40 PVC IRRIGATION SLEEVE
- 102 2" IRRIGATION SERVICE WITH 1-1/2" METER
- 103 IRRIGATION CONTROLLER INSTALLED IN ALL WEATHER ENCLOSURE

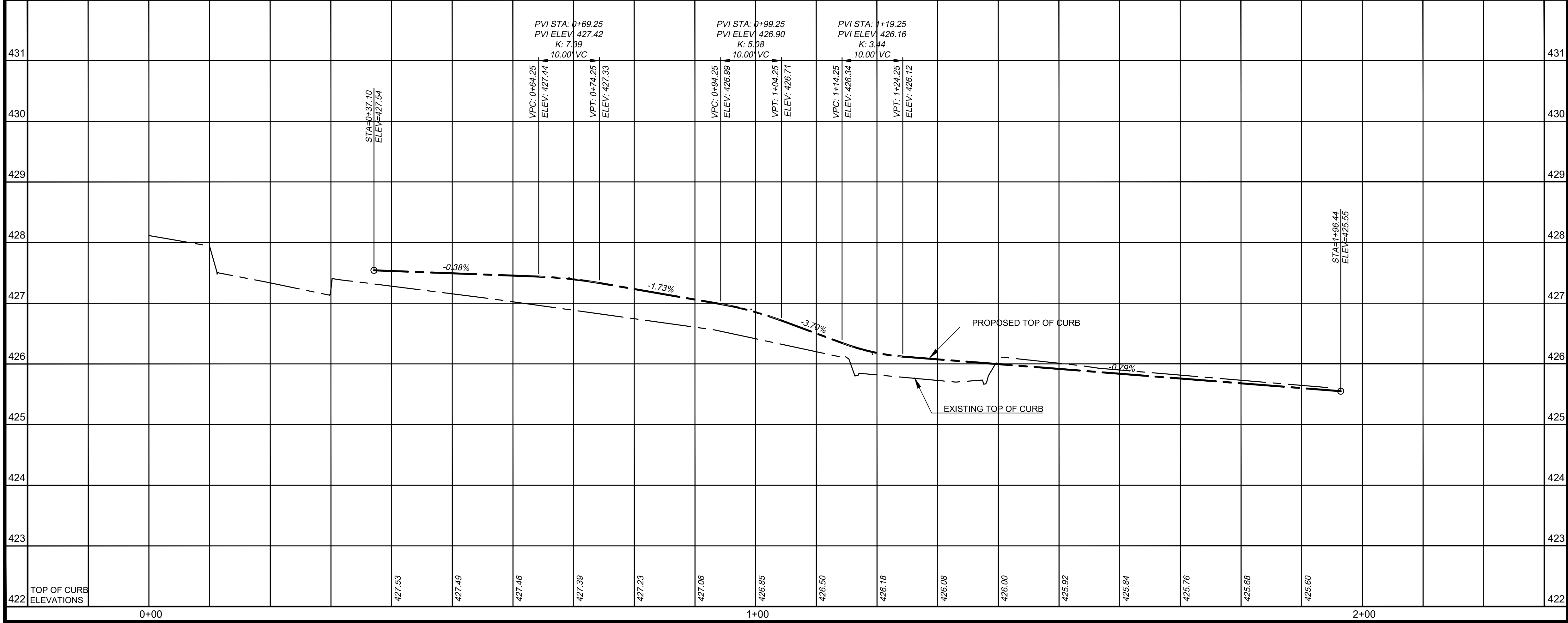
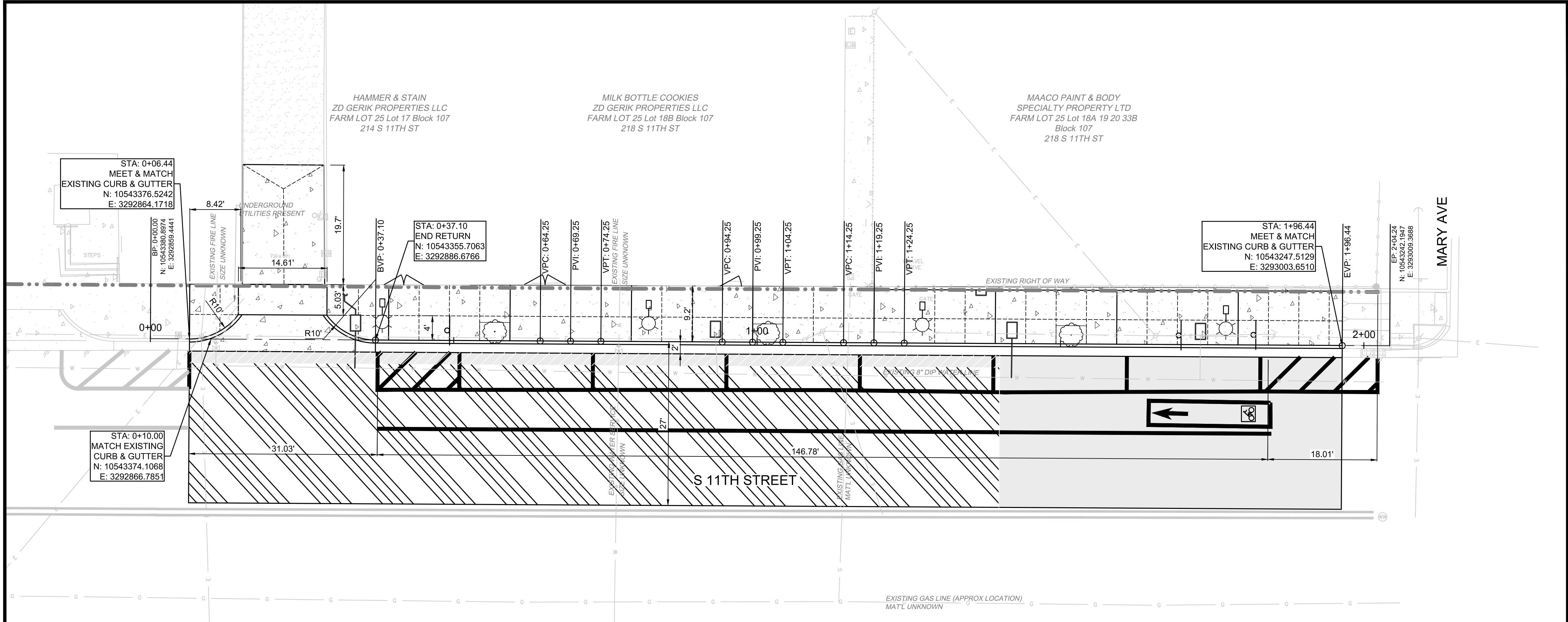
2. CONTRACTOR TO MAINTAIN ACCESS TO BUSINESS DURING NORMAL WORKING HOURS. CONTRACTOR TO PROVIDE MINIMUM 72 HOUR NOTICE PRIOR TO DEMOLITION IN TRAVEL AISLE TO ENTRANCE. CONTRACTOR TO PROVIDE TEMPORARY BOARD WALK TO ENTRANCE. COST TO BE SUBSIDIARY TO DEMOLITION BID ITEM.
4. CONTRACTOR TO PROVIDE ALL PIPING, WIRING, CONTROLS, ETC. TO PROVIDE IRRIGATION SERVICE TO NEW TREE WELLS. CONTRACTOR TO PROVIDE IRRIGATION PLAN FOR SUBMITTAL TO CITY OF WACO.
5. CONTRACTOR TO NOTIFY PROPERTY OWNERS A MINIMUM OF 72 HOURS PRIOR TO INTERRUPTION OF WATER SERVICE. IF WORK IS TO OCCUR AFTER HOURS OR AT NIGHT, ANY ADDITIONAL COSTS SHALL BE INCIDENTAL TO ITEM OF WORK
6. CONTRACTOR TO ADJUST JUNCTION BOXES, PRIVATE METER BOXES, ETC. TO BE FLUSH WITH FINAL GRADE. COST TO BE SUBSIDIARY TO OWNER.



VERIFY SCALE: BAR LENGTH EQUALS ONE INCH ON ORIGINAL
DRAWING. VERIFY LENGTH ON THIS SHEET
0 1" AND ADJUST SCALE ACCORDINGLY

SITE PLAN

SHEET
C300



North Arrow

HORIZ 0 10 20
VERT 0 1 2
SCALE IN FEET

JOINT LEGEND

----- CONTROL JOINT (EVERY 5')

----- EXPANSION JOINT (EVERY 20')

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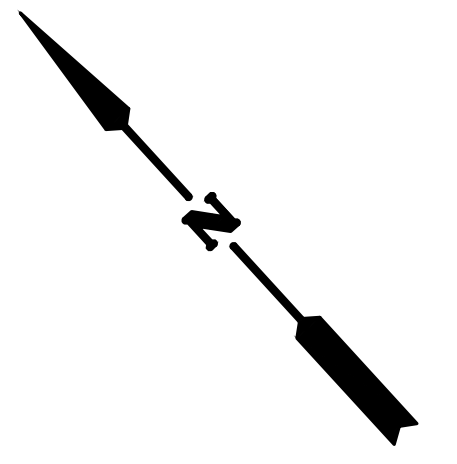
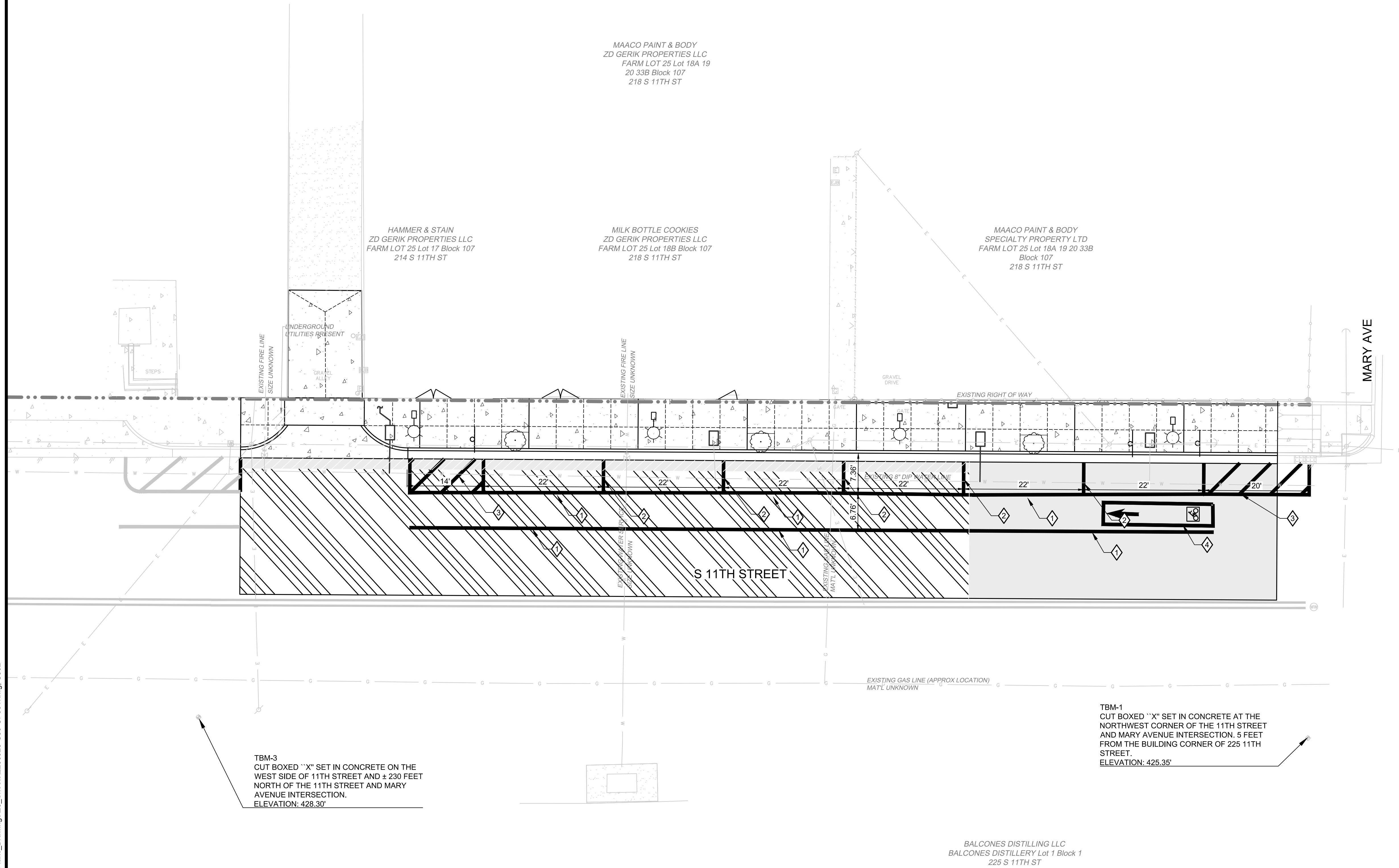
David L. Marek
Professional Engineer
No. 163327
Exp. 08/31/2025
4-14-2023

CITY OF WACO
SOUTH 11TH STREET IMPROVEMENTS

DIMENSION CONTROL PLAN
CURB PLAN & PROFILE

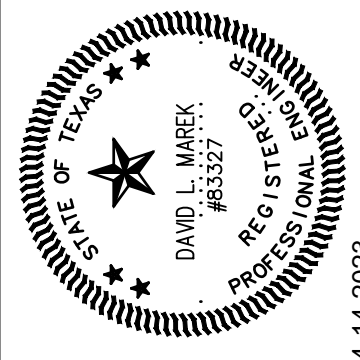
DESIGN: DLM
DRAWN: CDG
REVIEW: DLM
CP&Y: CWAC2200996
CLIENT:

SHEET
C301



STRIPING CALLOUTS

- | | |
|---|--|
| 1 | REFL PAV MRK TY 1 (W) 4" (SLD) (100 MIL) |
| 2 | REFL PAV MRK TY 1 (W) 4" (SLD) (100 MIL) (PARKING STALLS) |
| 3 | "NO PARKING" REFL PAV MRK TY 1 (W) 4" (SLD) (100 MIL) |
| 4 | REFL PAV MRK TY 1 BIKE BOX (SMALL) WITH ARROW AND BIKE SYMBOL, GREEN THERMO BACKED |



NO.	REVISION	BY	DATE

CITY OF WACO
SOUTH 11TH STREET IMPROVEMENTS

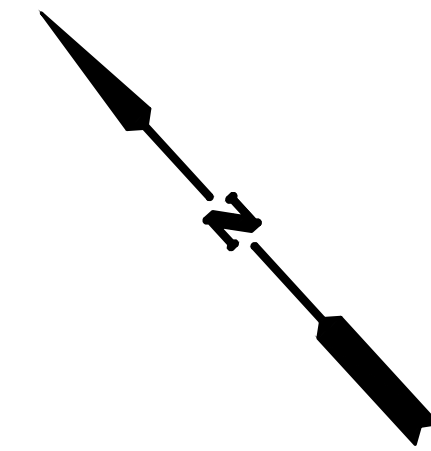
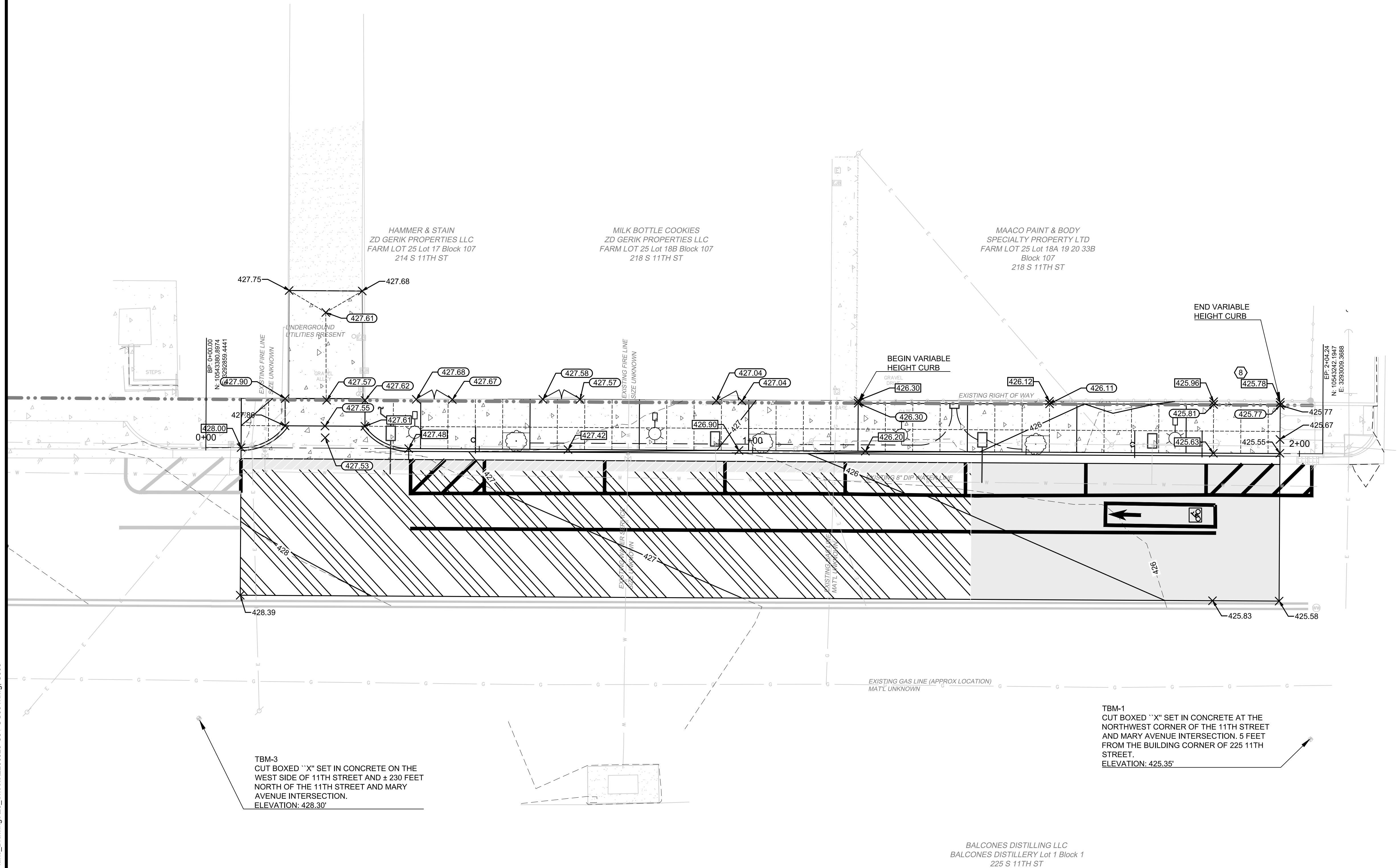
PAVEMENT MARKING PLAN

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AVOIDING ALL EXISTING UTILITIES BY
CALLING THE 'ONE CALL' LOCATOR
SERVICE AT (800)344-8377 AT LEAST 48
HOURS PRIOR TO CONSTRUCTION.

DESIGN: DLM
DRAWN: CDG
REVIEW: DLM
CP&Y: CWAC2200996
CLIENT:

SHEET
C302



0 10 20

SCALE IN FEET

GRADING CALLOUTS

- | | |
|------------|-----------------------|
| X—(123.45) | SPOT ELEVATION |
| X—123.95 | TOP OF CURB ELEVATION |
| X—123.85 | EXISTING ELEVATION |

LEGEND

- EXISTING CONTOURS
- ==== PROPOSED CONTOURS

SPECIAL PROJECT NOTES

- 8 CONTRACTOR TO VERIFY ELEVATION OF TOP OF
SIDEWALK AT POINT OF CONNECTION PRIOR TO
BEGINNING DEMOLITION WORK. NOTIFY ENGINEER
IF A DISCREPANCY EXISTS.

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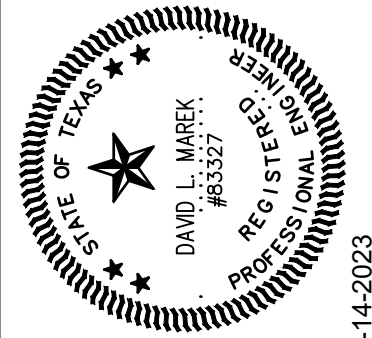
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CITY OF WACO
SOUTH 11TH STREET IMPROVEMENTS

GRADING PLAN

DESIGN: DLM
DRAWN: CDG
REVIEW: DLM
CP&Y: CWAC2200996
CLIENT:

SHEET
C303

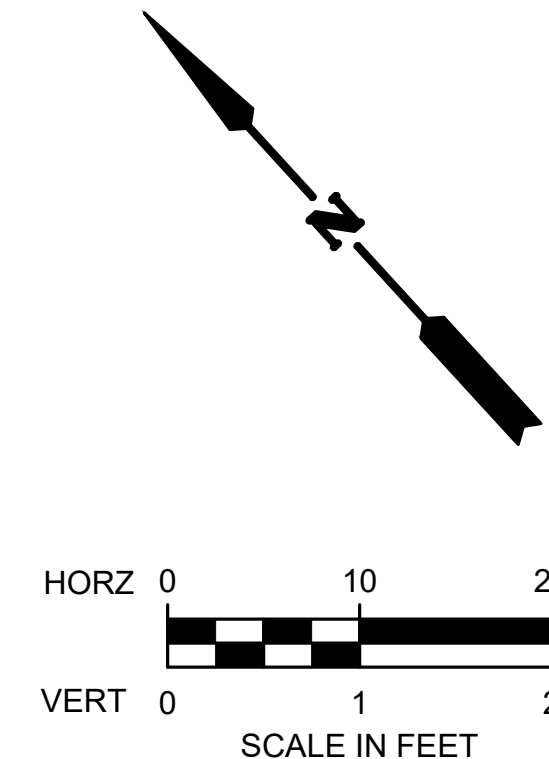
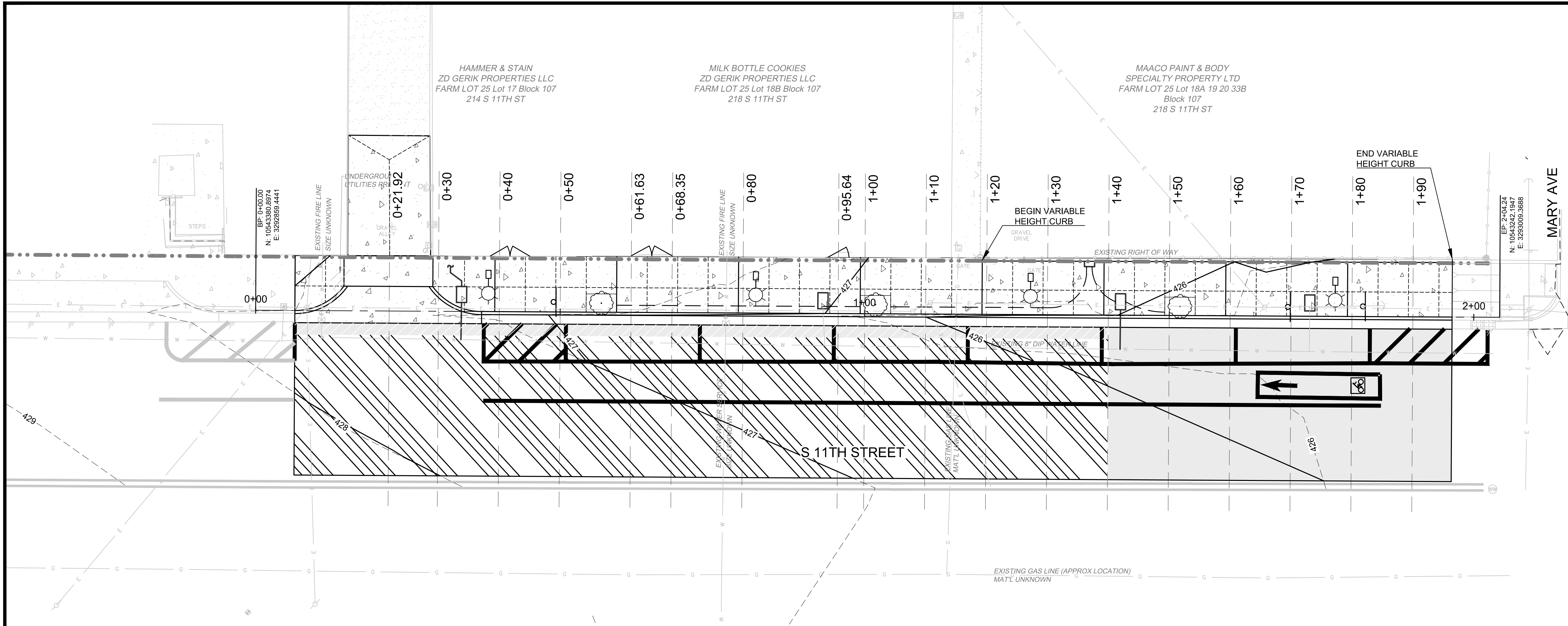


NO.	REVISION	BY	DATE
VERIFY SCALE 0 1"			
BAR LENGTH EQUALS ONE INCH ON ORIGINAL DRAWING. VERIFY LENGTH ON THIS SHEET AND ADJUST SCALE ACCORDINGLY			

CP&Y
CP&Y, INC.
TEXAS REGISTERED ENGINEERING FIRM
TBE F-1741

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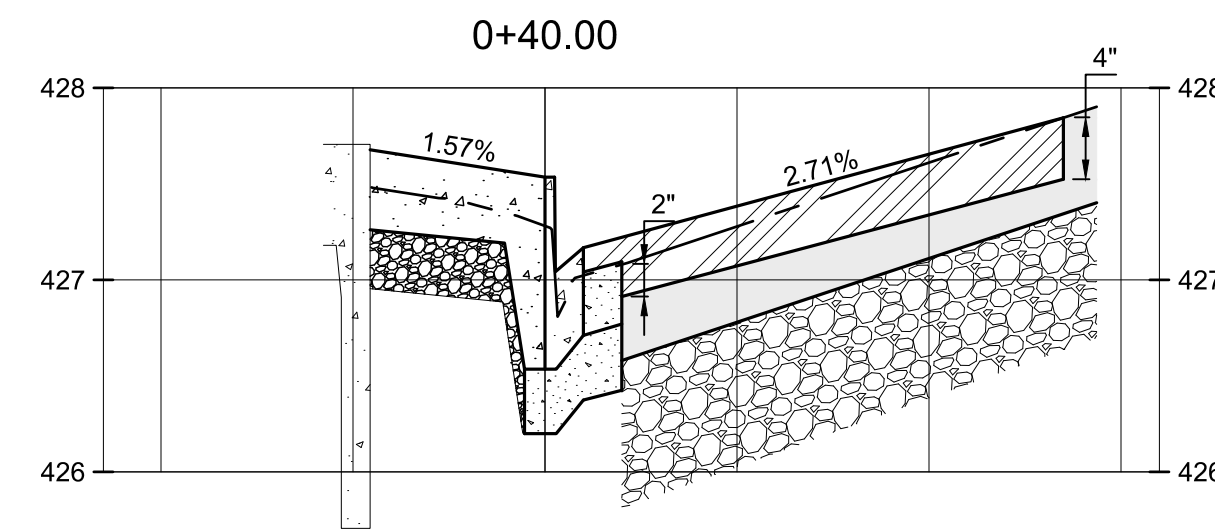
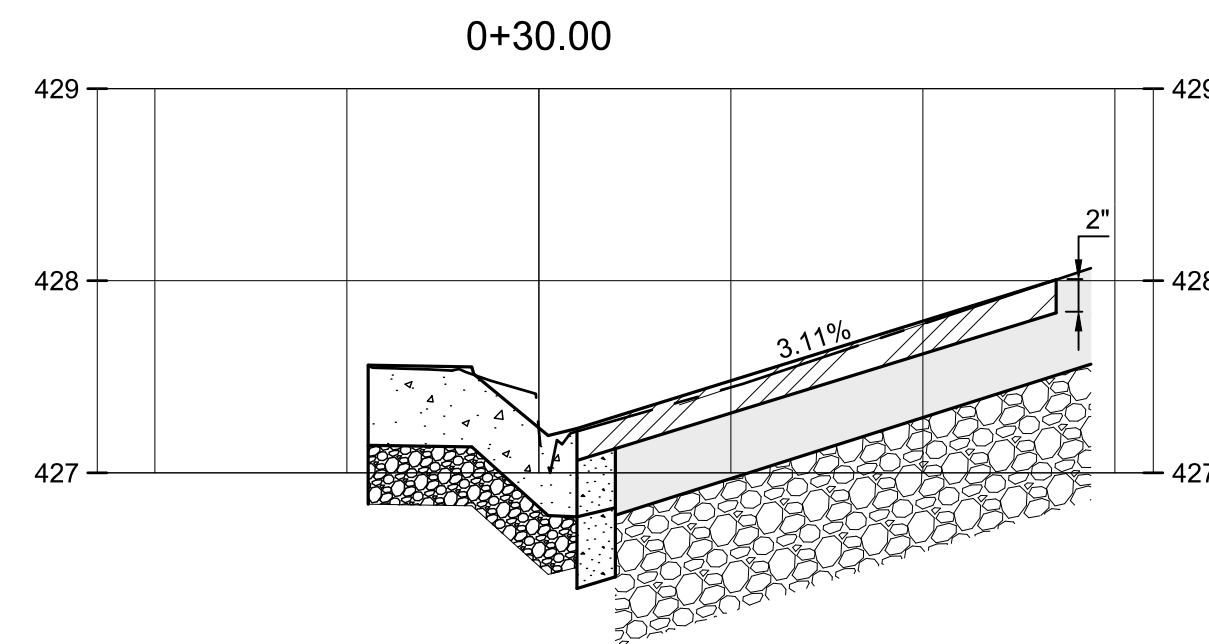
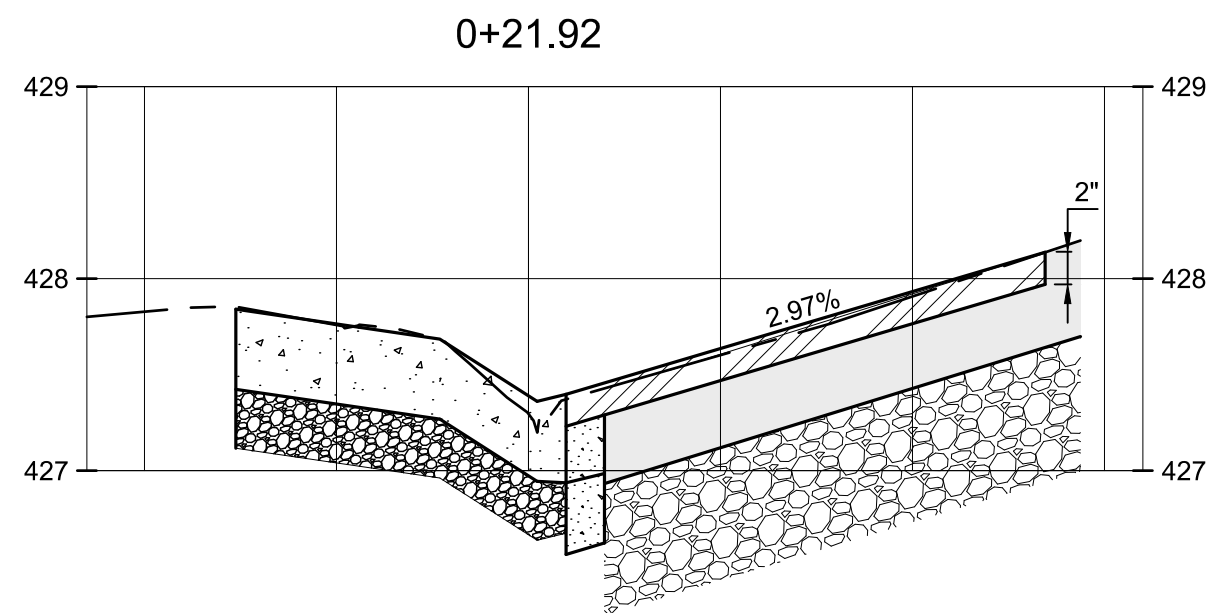
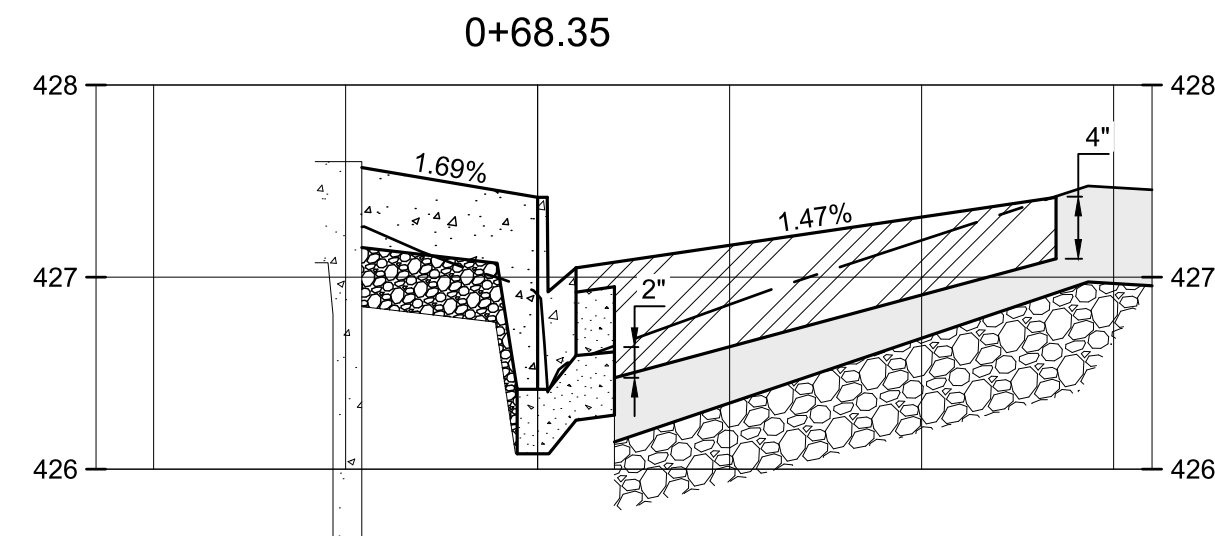
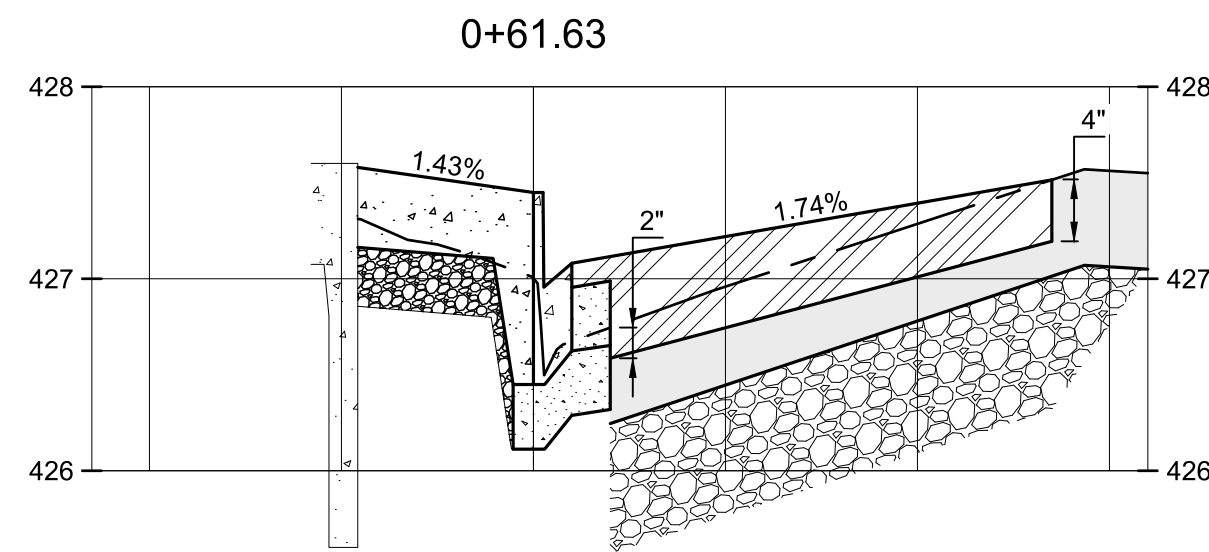
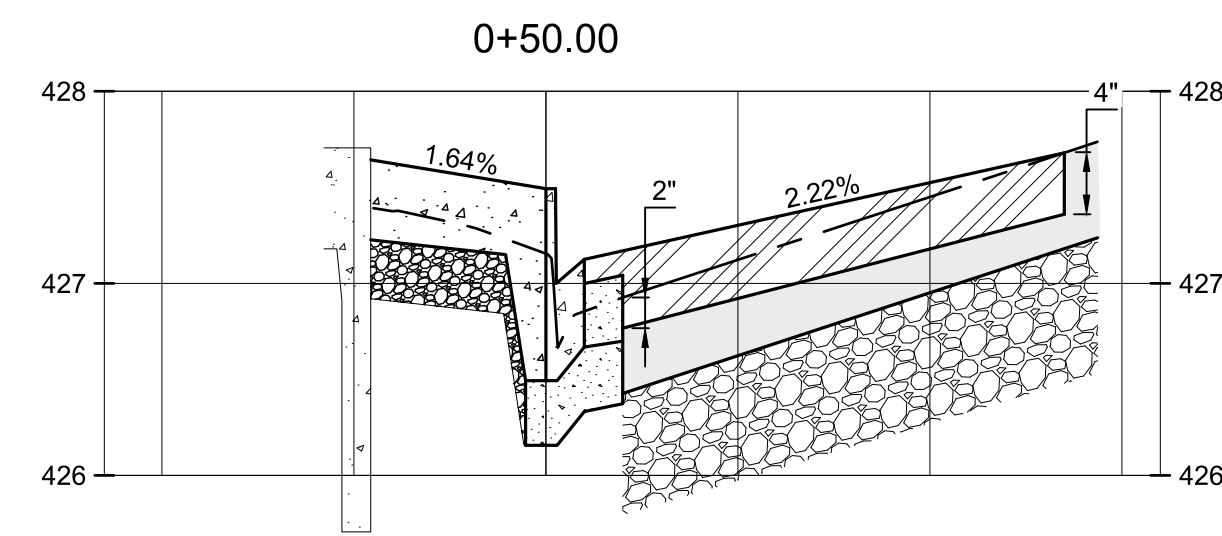


LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING GROUND SECTION
- PROPOSED GROUND SECTION
- EXISTING HMA PAVEMENT
- EXISTING FLEXIBLE BASE
- PROPOSED HMA PAVEMENT
- PROPOSED FLEXIBLE BASE
- PROPOSED REINFORCED CONCRETE PAVEMENT
- PROPOSED CEMENT STABILIZED BASE

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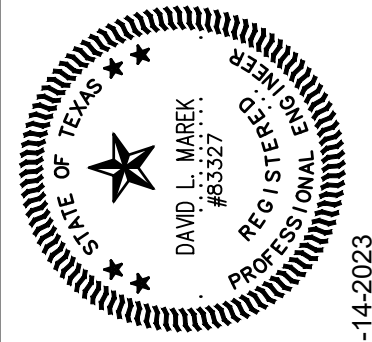


CITY OF WACO
SOUTH 11TH STREET IMPROVEMENTS

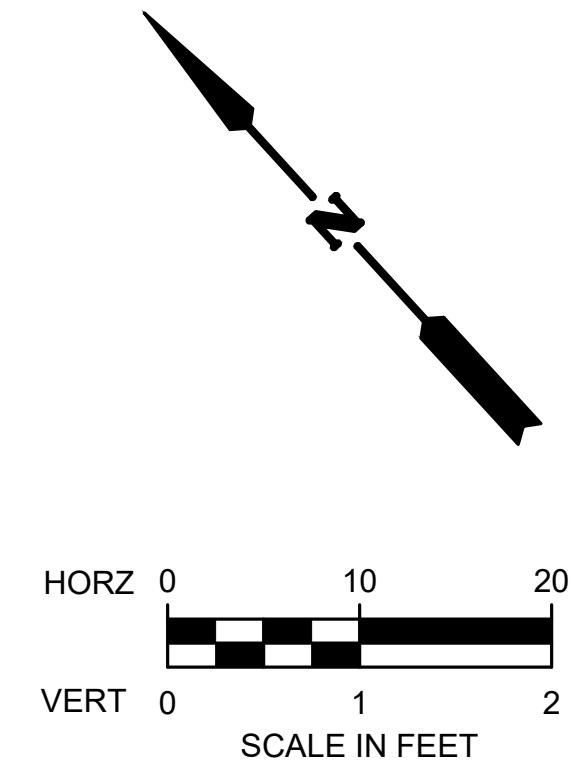
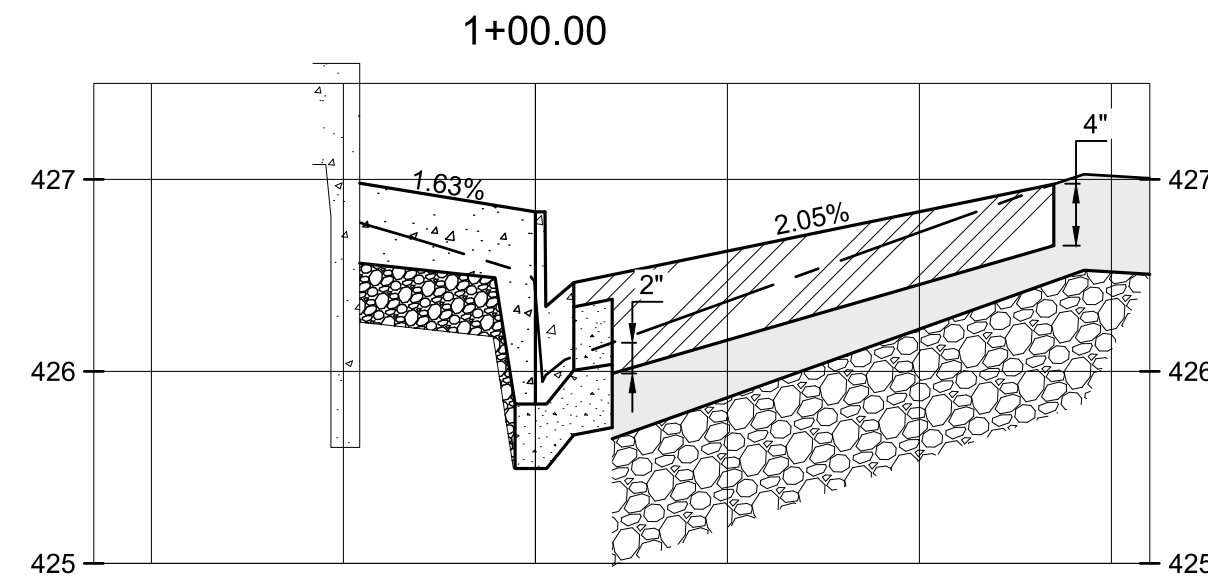
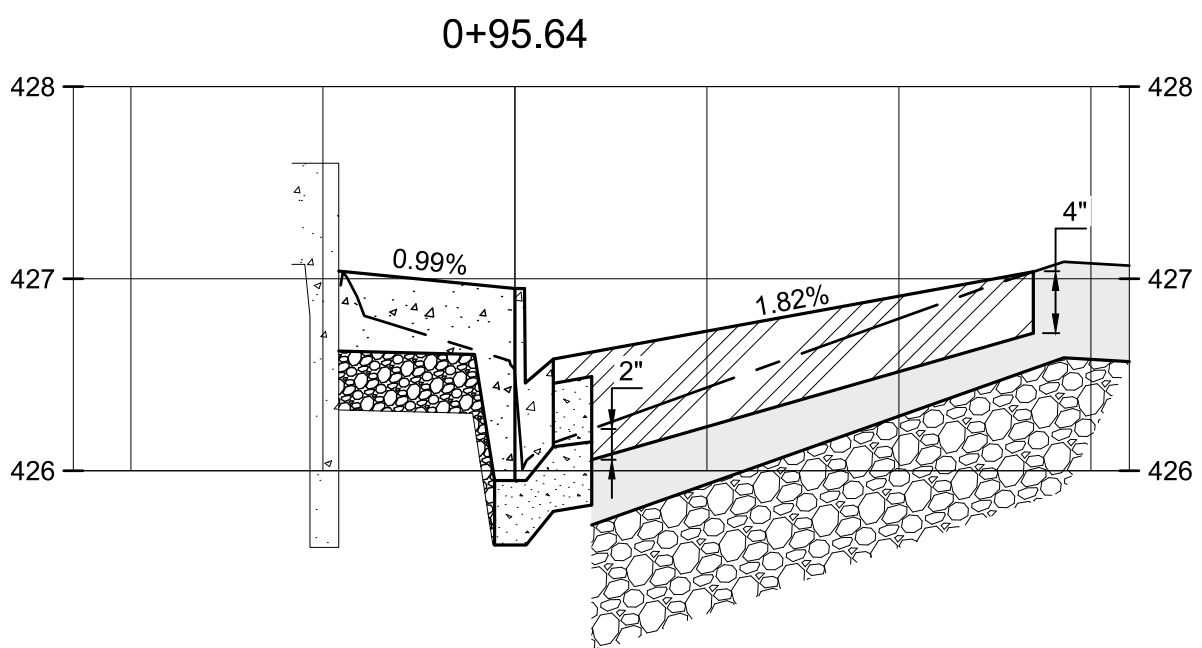
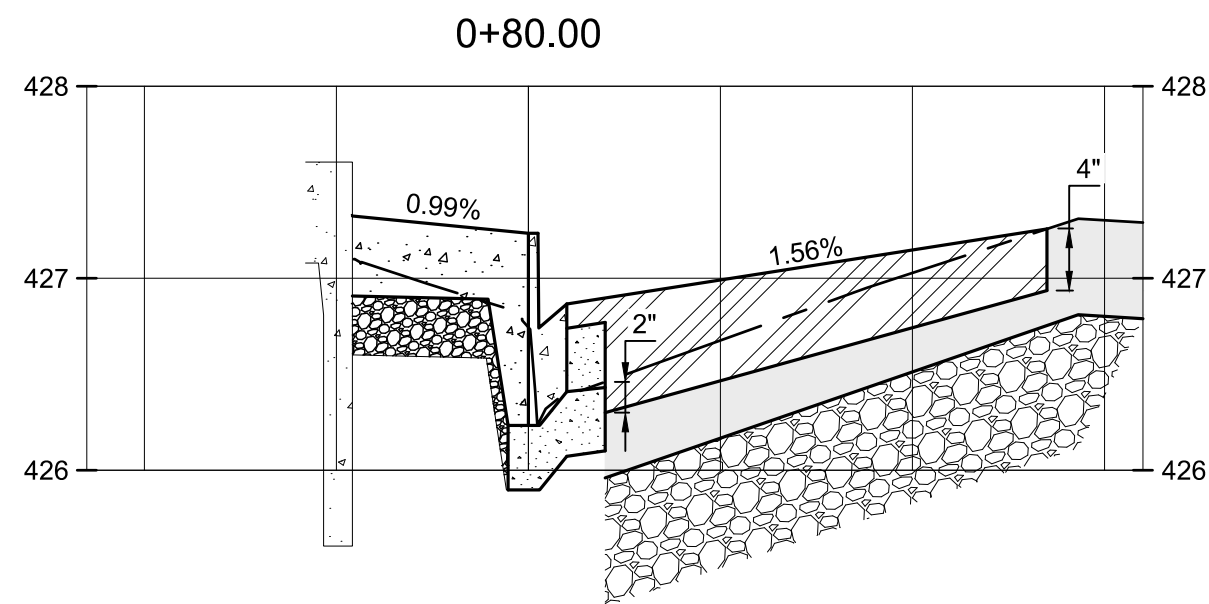
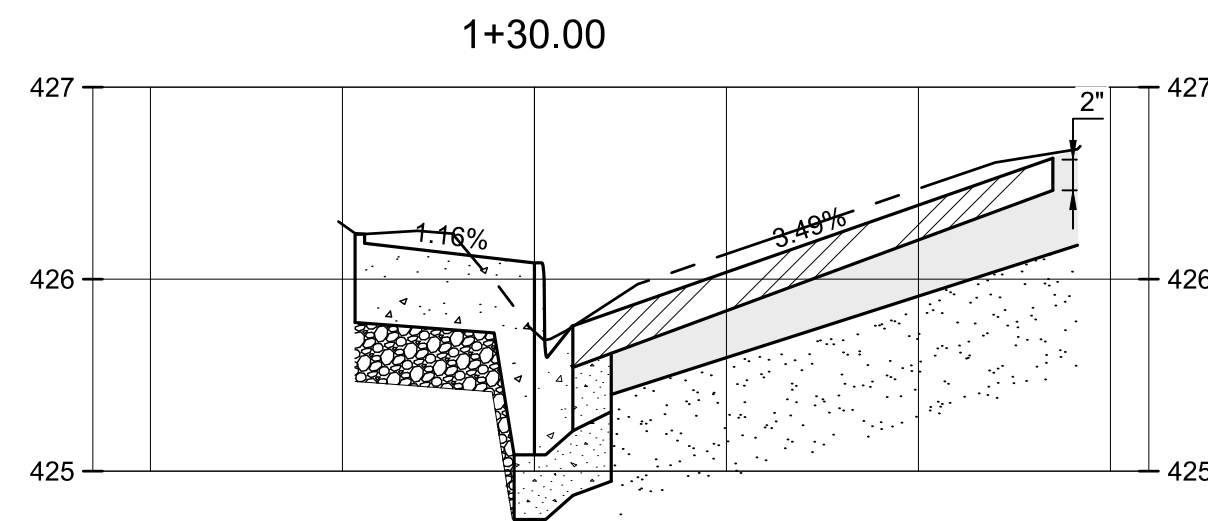
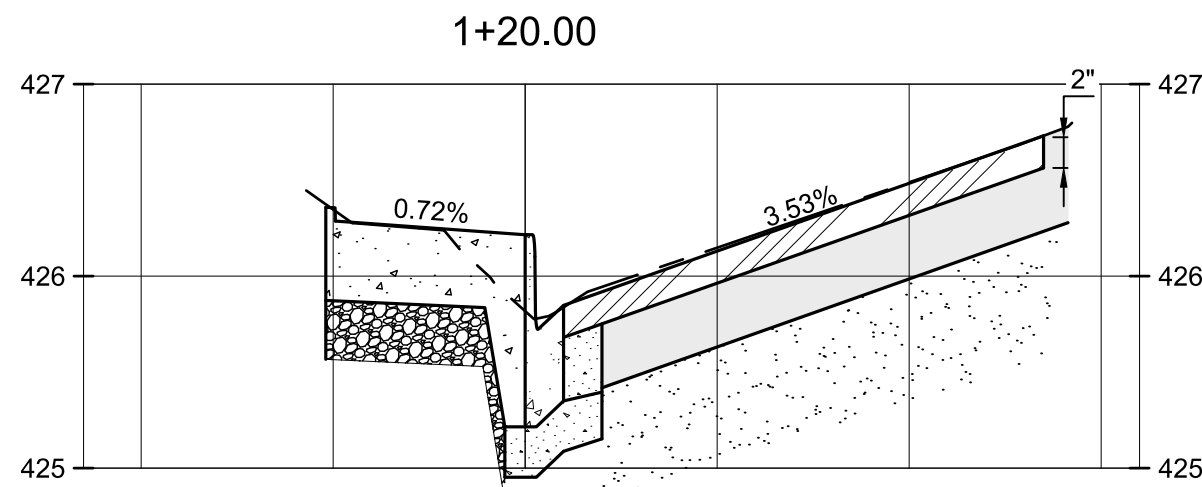
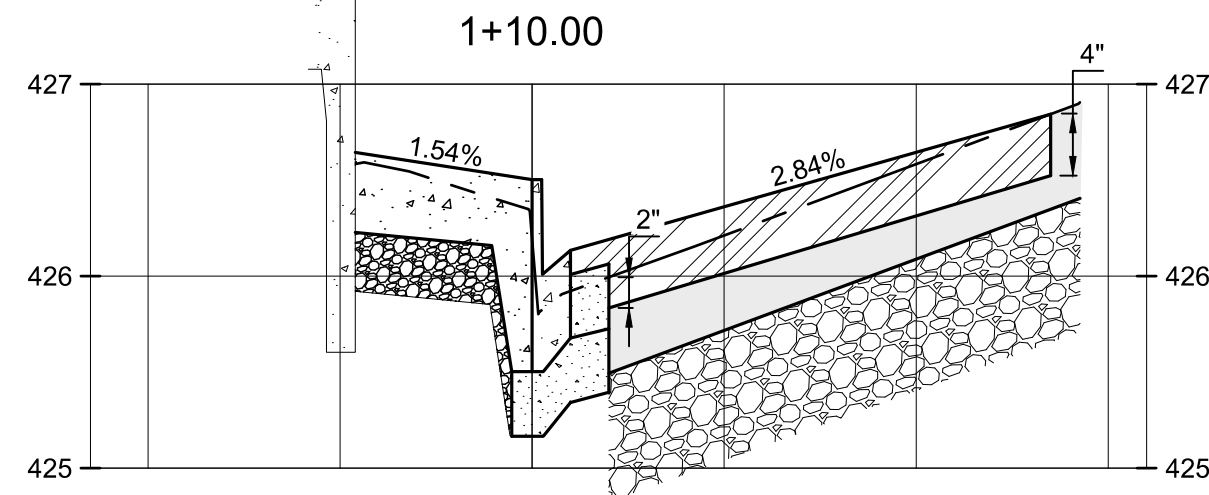
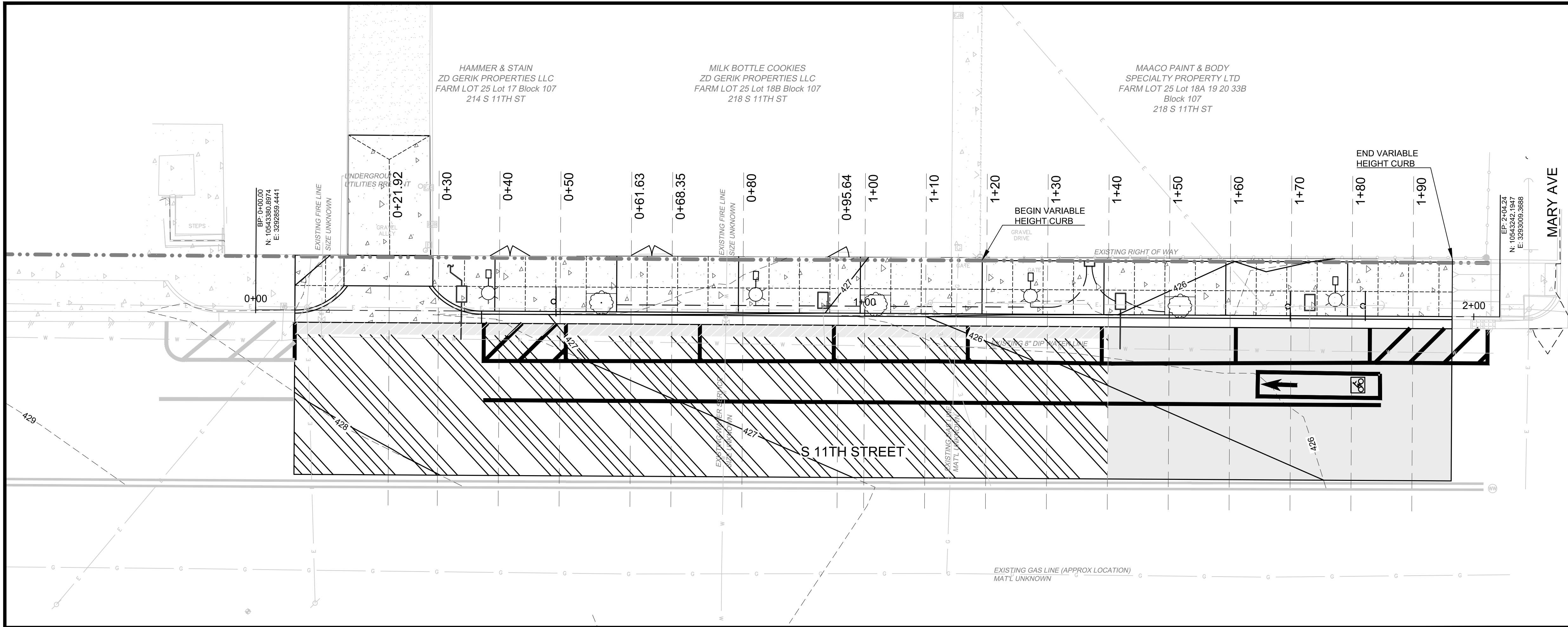
CROSS SECTIONS
STA. 0+20 TO 0+68.35

DESIGN: DLM
DRAWN: CDG
REVIEW: DLM
CP&Y: CWAC2200996
CLIENT:

SHEET
C350



CP&Y
CP&Y, INC.
TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741



LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING GROUND SECTION
- PROPOSED GROUND SECTION
- EXISTING HMAC PAVEMENT
- EXISTING FLEXIBLE BASE
- EXISTING CEMENT TREATED BASE
- PROPOSED HMAC PAVEMENT
- PROPOSED FLEXIBLE BASE
- PROPOSED REINFORCED CONCRETE PAVEMENT
- PROPOSED CEMENT STABILIZED BASE

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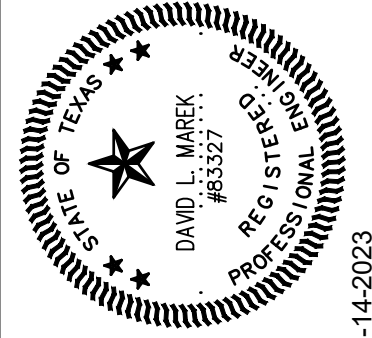
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CITY OF WACO
SOUTH 11TH STREET IMPROVEMENTS

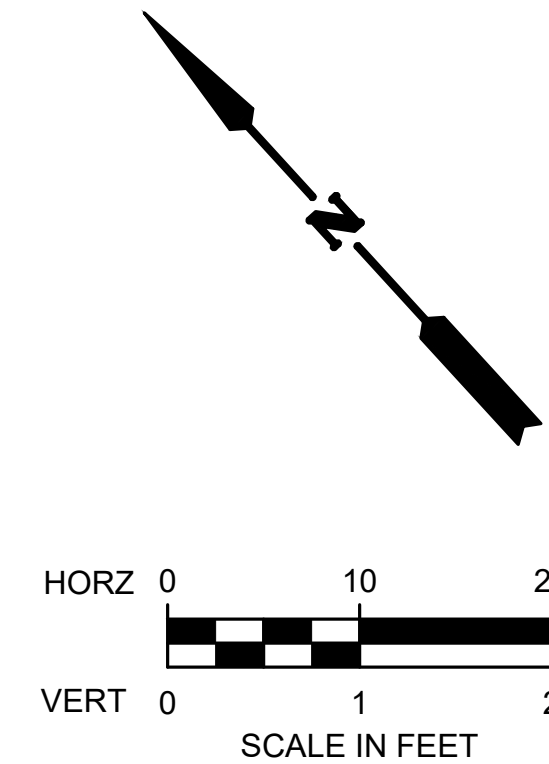
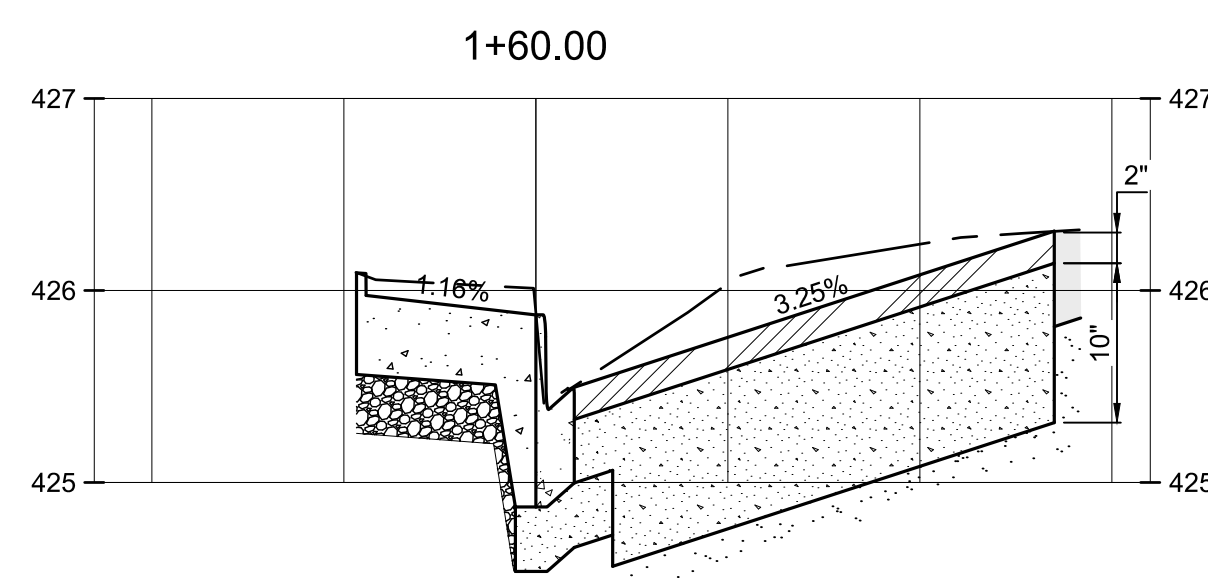
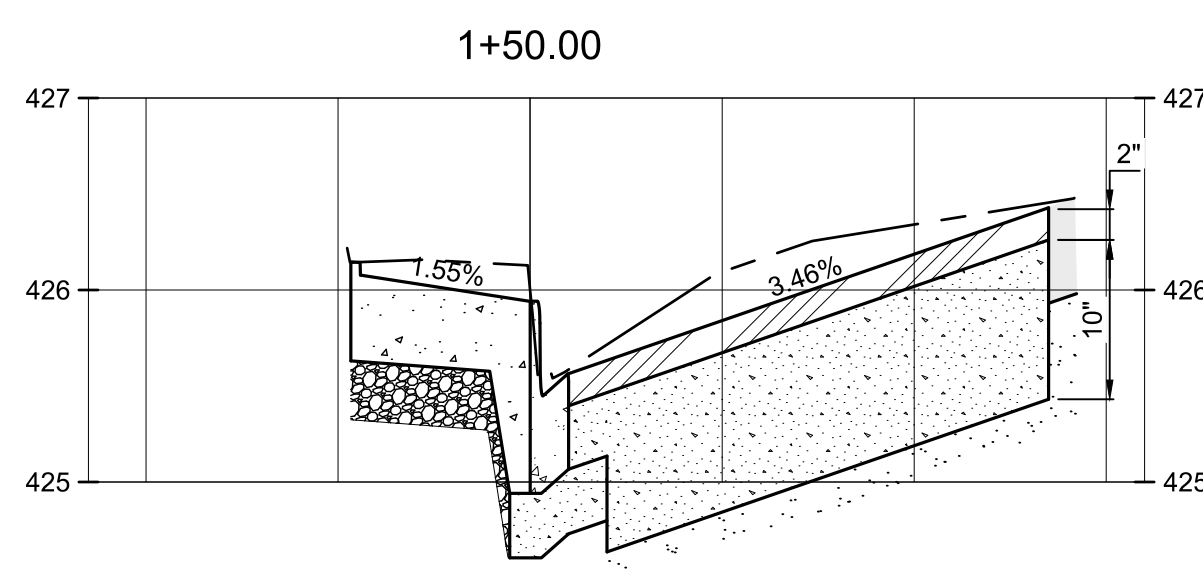
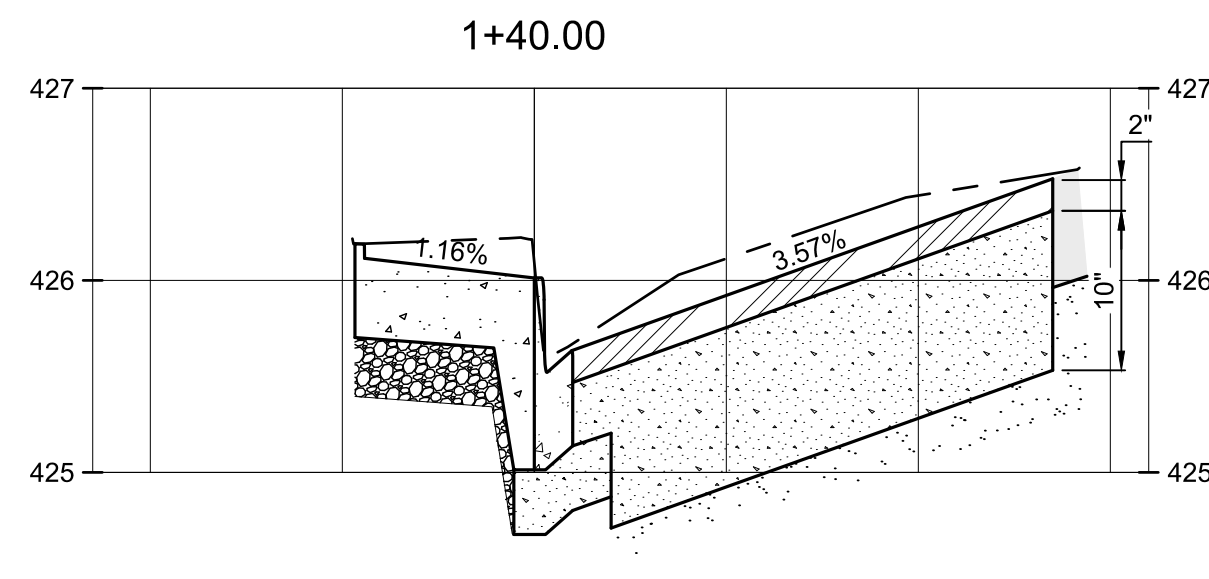
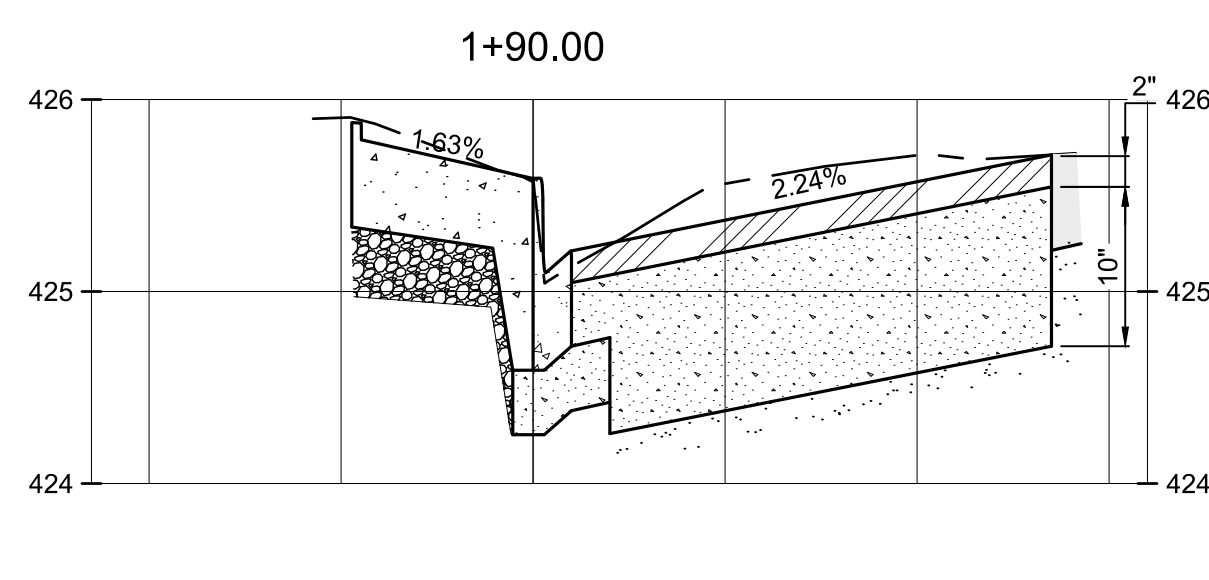
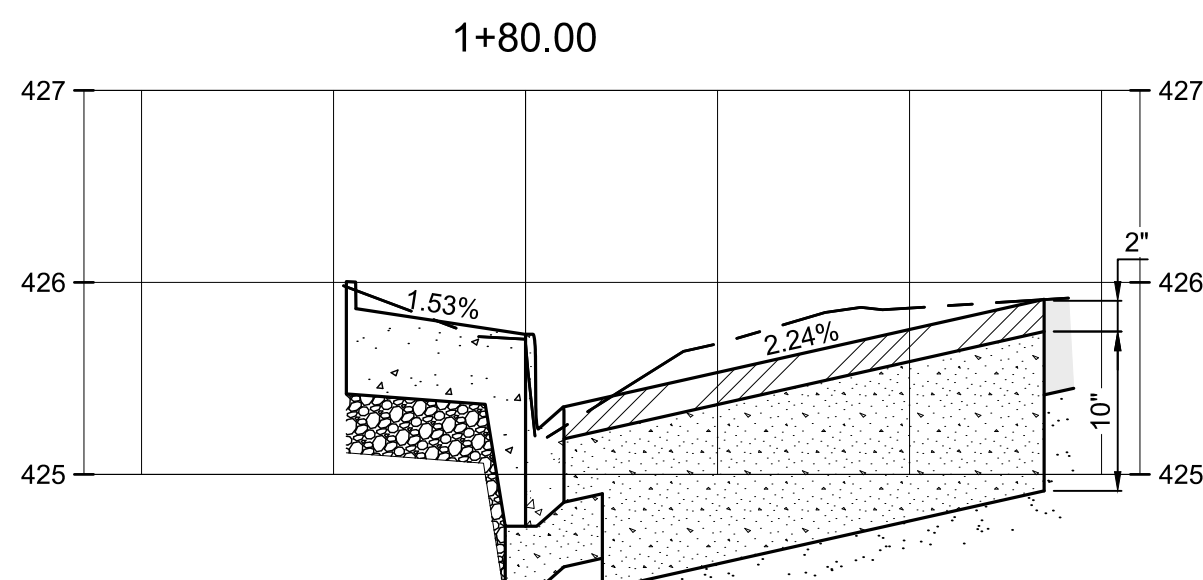
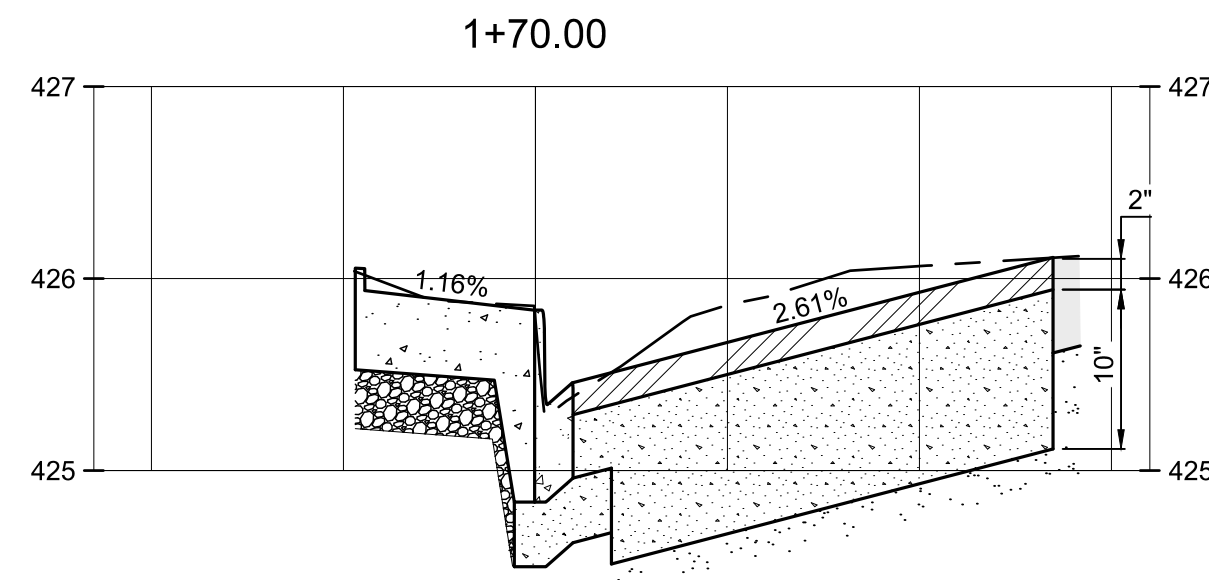
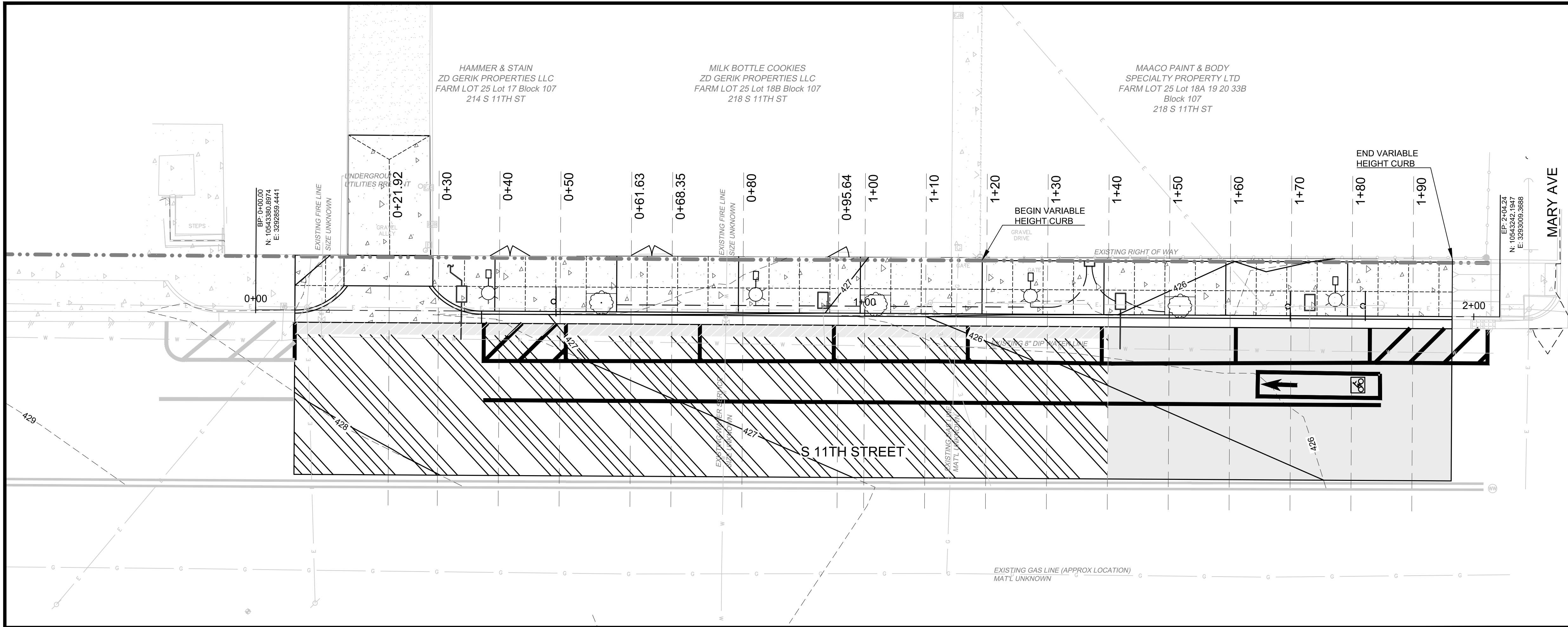
CROSS SECTIONS
STA. 0+80 TO 1+30

DESIGN: DLM
DRAWN: CDG
REVIEW: DLM
CP&Y: CWAC2200996
CLIENT:

SHEET
C351



NO.	REVISION	BY	DATE
0	VERIFY SCALE	BAR LENGTH EQUALS ONE INCH ON ORIGINAL DRAWING. VERIFY LENGTH ON THIS SHEET AND ADJUST SCALE ACCORDINGLY.	



LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING GROUND SECTION
- PROPOSED GROUND SECTION
- EXISTING HMAC PAVEMENT
- EXISTING FLEXIBLE BASE
- EXISTING CEMENT TREATED BASE
- PROPOSED HMAC PAVEMENT
- PROPOSED FLEXIBLE BASE
- PROPOSED REINFORCED CONCRETE PAVEMENT
- PROPOSED CEMENT STABILIZED BASE

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CP&Y, INC.
TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741

NO.	REVISION	BY	DATE
	1		

VERIFY SCALE BAR LENGTH EQUALS ONE INCH ON ORIGINAL DRAWING. VERIFY LENGTH ON THIS SHEET AND ADJUST SCALE ACCORDINGLY.

0 1" 1'

CITY OF WACO
SOUTH 11TH STREET IMPROVEMENTS

CROSS SECTIONS
STA. 1+40 TO 1+80

DESIGN: DLM
DRAWN: CDG
REVIEW: DLM
CP&Y: CWAC2200996
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C352

			ABBREVIATIONS			POWER - RECEPTACLES		
	120V. PHOTOCCELL		ABC	ABOVE COUNTER			120V. DUPLEX RECEPTACLE - (REFER TO RECEPTACLE ABBREVIATIONS FOR EXCEPTIONS)	
	NON-FUSIBLE SAFETY SWITCH. SIZE AS NOTED (A RATING/POLES)		AFF	ABOVE FINISHED FLOOR			120V. DUPLEX RECEPTACLE - SPECIAL MOUNTING HEIGHT (REFER TO RECEPTACLE ABBREVIATIONS FOR EXCEPTIONS)	
	FUSIBLE SAFETY SWITCH. SIZE AS NOTED (AMP RATING/POLES)		AFG	ABOVE FINISHED GRADE			120V. QUADRUPLEX RECEPTACLE - (REFER TO RECEPTACLE ABBREVIATIONS FOR EXCEPTIONS)	
	COMBINATION MOTOR STARTER		C	RED- EMERGENCY POWER			120V. QUADPLEX RECEPTACLE - SPECIAL MOUNTING HEIGHT (REFER TO RECEPTACLE ABBREVIATIONS FOR EXCEPTIONS)	
	FACTORY WIRED CONTROLLER OR EQUIPMENT		CLG	CEILING			240V., 2-POLE, SINGLE RECEPTACLE, RATING AS SHOWN ON PLANS	
	MOTOR CONNECTION		FBO	FURNISHED BY OTHERS			120V. GFCI DUPLEX RECEPTACLE - (REFER TO RECEPTACLE ABBREVIATIONS FOR EXCEPTIONS)	
	UNIT HEATER CONNECTION		IG	ISOLATED GROUND			120V. GFCI QUADRUPLEX RECEPTACLE - (REFER TO RECEPTACLE ABBREVIATIONS FOR EXCEPTIONS)	
	DUCT HEATER CONNECTION		S	SAFETY TYPE				
	JUNCTION BOX		SMH	SPECIAL MOUNTING HEIGHT- AS NOTED OR SEE SPECS			CONNECTION FOR FILM ILLUMINATOR, COORDINATE ROUGH-IN PRIOR TO INSTALLATION	
	PANELBOARD - FLUSH MOUNTED		TV	TELEVISION			WIREMOLD - LENGTH AS REQUIRED - EMERGENCY POWER	
	PANELBOARD - SURFACE MOUNTED		WP	WEATHERPROOF			WIREMOLD - LENGTH AS REQUIRED - NORMAL POWER	
	X-RAY ISOLATION PANEL LINE ISOLATION MONITOR		TYPICAL MOUNTING					
	ISOLATION PANEL LINE ISOLATION MONITOR		THE CONTRACTOR SHALL COORDINATE THE MOUNTING HEIGHT OF ALL FIXTURES DEVICES, AND OUTLETS WITH ARCHITECTURAL PLANS AND ELEVATIONS. SPECIAL MOUNTING HEIGHTS SHOWN ON THE PLANS SHALL TAKE PRECEDENCE OVER THOSE GIVEN BELOW. ALL MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTERLINE OF DEVICE, UNLESS NOTED OTHERWISE.					
	CLOCK, SINGLE FACE - CLOCK AND RECEPTACLE AS SPECIFIED.		LIGHTING FIXTURES	WALL MOUNTED, SCONCE WALL MOUNTED, ABOVE MIRROR WALL MOUNTED, ABOVE DOOR WALL MOUNTED, ABOVE STAIR LANDING INSOFFIT WALL MOUNTED, BESIDE DOOR STEP MOUNTED WALL MOUNTED, NEAR GRADE WALL MOUNTED, NEAR ROOF	6'-6" 0'-8" ABOVE TOP OF MIRROR CENTER BETWEEN FRAME & CEILING 7'-0" (SEE ARCHITECTURAL DETAIL) 6'-0" (SEE ACHITECTURAL) 8'-0" ABOVE GRADE LEVEL 2'-6" BELOW PARAPET			
	CLOCK, DOUBLE FACE - CLOCK AND RECEPTACLE AS SPECIFIED.		SWITCHES	WALL SWITCHES AND DIMMERS MANUAL MOTOR STARTERS	3'-10" 3'-10"			
	INTERVAL TIMER		RECEPTACLES	WALL ABOVE COUNTER WITHOUT BACKSPLASH ABOVE COUNTER WITH BACKSPLASH IN O.R.'S X-RAY FILM ILLUMINATORS	1'-6" 0'-8" ABOVE TOP OF COUNTER 0'-4" ABOVE TOP OF BACKSPLASH 1'-6" 2" BELOW AND 2" TO THE RIGHT OF LOWER RIGHT HAND CORNER (SAME AS TV OUTLET)			
	MEDICAL GAS ALARM PANEL			FOR TELEVISION WALL HUNG SINKS (GFCI) PHYSICAL THERAPY (GCFI) CLOCK	3'-6" 3'-0" 1'-0" BELOW CEILING			
	MEDICAL GAS LINE PRESSURE ALARM		TV CABLE OUTLET	WALL ABOVE COUNTER WITHOUT BACKSPLASH ABOVE COUNTER WITH BACKSPLASH	3'-0" 0'-8" ABOVE TOP OF COUNTER 0'-4" ABOVE TOP OF BACKSPLASH			
	MEDICAL GAS PRESSURE SWITCH		TELEPHONE	DESK/TABLE WALL TELEPHONE PAY TELEPHONE ABOVE COUNTER WITHOUT BACKSPLASH ABOVE COUNTER WITH BACKSPLASH PAT TELEPHONE, HANDICAPPED	1'-6" 3'-10" 3'-10" 0'-8" ABOVE TOP OF COUNTER 0'-4" ABOVE TOP OF BACKSPLASH (SEE ARCHITECTURAL DETAIL)			
	SECURITY SYSTEM CONTROL PANEL		DATA OUTLETS	WALL ABOVE COUNTER WITHOUT BACKSPLASH ABOVE COUNTER WITH BACKSPLASH	1'-6" 0'-8" ABOVE TOP OF COUNTER 0'-4" ABOVE TOP OF BACKSPLASH			
	DOOR SWITCH MOUNTED IN DOOR JAMB		ELECTRICAL EQUIPMENT	SAFETY SWITCH MOTOR STARTER PANELBOARD COMMUNICATION CABINET	6'-6" TO TOP OF ENCLOSURE 6'-6" TO TOP OF ENCLOSURE 6'-6" TO TOP OF ENCLOSURE 6'-6" TO TOP OF ENCLOSURE			
	DOOR RELEASE PUSH BUTTON		FIRE ALARM	MANUAL PULL CHIME, HORN AND/OR STROBE	3'-10" 3'-10" 3'-10" 0'-6" BELOW CEILING LEVEL -			
	CARD READER		NURSE CALL	SMOKE, HEAT DETECTORS CONTROL PANEL, ANNUNCIATOR MAGNETIC DOOR HOLDER	3'-10" 3'-6" AT HEIGHT OF SHOWER HEAD 3'-10" 3'-10" 3'-10" CEILING 3'-10" 0'-8" ABOVE COUNTER 6'-6" TO TOP OF ENCLOSURE			
	MOTION DETECTOR		MONITOR	WALL ABOVE COUNTER WALL BRACKET SOFFIT	1'-6" 0'-8" ABOVE TOP OF COUNTER CENTERLINE OF BRACKET (SEE ARCHITECTURAL DETAIL)			
	CIRCUIT HOMERUN - ARROWHEADS INDICATE QUANTITY OF CIRCUITS		TELEPHONE/DATA					
	EXTERIOR CONDUIT BELOW GRADE OR CONCEALED CONDUIT IN SLAB			TELEPHONE (BACKBOX WITH CONDUIT)	1'-6" AFF TO CL			
	CONCEALED CONDUIT			WALL TELEPHONE (BACKBOX WITH CONDUIT)	4'-6" AFF TO CL			
				TELEPHONE, SPECIAL MOUNTING HEIGHT (BACKBOX WITH CONDUIT)	AS NOTED SEE SPECS.			
				TELEPHONE FLOOR BOX				
				DATA/TELEPHONE (BACKBOX WITH CONDUIT)	1'-6" AFF TO CL			
				COMBINATION DATA/TELEPHONE, SPECIAL MOUNTING HEIGHT (BACKBOX WITH CONDUIT)	AS NOTED SEE SPECS.			
				DATA (BACKBOX WITH CONDUIT)	1'-6" AFF TO CL			
				DATA, SPECIAL MOUNTING HEIGHT (BACKBOX WITH CONDUIT)	AS NOTED SEE SPECS.			
				DATA FLOOR BOX				

GENERAL NOTES TO CONTRACTOR

1. THE CONTRACTOR SHALL NOT DEVIATE FROM DESIGN. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL WORK TO MATCH THE DRAWINGS AS SHOWN. ANY DEVIATION FROM THE DESIGN BY THE CONTRACTOR WILL RESULT IN THE CONTRACTOR PAYING ENGINEER DIRECTLY TO UPDATE ANY CITY REQUIRED CHANGES ON CITY DRAWINGS. THE FEE AMOUNT WILL BE DETERMINED BASED ON EXTENT OF CHANGES AND TIMEFRAME. THIS DOES NOT SUBSTITUTE FOR AS-BUILT RECORD DRAWINGS THAT THE CONTRACTOR SHALL FURNISH TO OWNER. AS-BUILT AND SHOP DRAWINGS ARE STILL REQUIRED AS PER STANDARD INDUSTRY PRACTICE.

2. THE CONTRACTOR SHALL CARRY A LINE ITEM ALLOWANCE CONTINGENCY OF \$1,500 WHICH SHALL BE USED FOR ANY INCIDENTAL CITY INSPECTION ITEMS THAT COME UP AT THE LAST MINUTE AND WERE NOT BROUGHT UP IN THE PLAN CHECK AND AWARDING OF THE PERMIT. IF NO SUCH ITEMS ARE BROUGHT UP BY THE CITY DURING INSPECTIONS (INCLUDING FINAL) CITY AWARDS THE C.O. FOR THE OWNER TO MOVE IN THEN THE ALLOWANCE SHALL BE CREDITED IN FULL TO THE OWNER.

3. GC/CONSTRUCTION MANAGER SHALL BE RESPONSIBLE TO CROSS COORDINATE THE MEP DRAWINGS WITH THE ARCHITECTURAL SPECIFICALLY, BUT NOT LIMITED TO, POWER AND DATA OUTLETS LIGHT FIXTURES, LIGHT FIXTURES SWITCHING, SUPPLY OF WATER FOR COFFEE, REFRIGERATOR, DRINKING WATER DEVICES ETC.

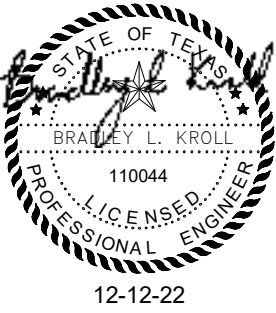
4. WHERE NEW LIGHTS OR RECEPTACLES ARE DESIGNED TO BE CONNECTED TO AN EXISTING CIRCUIT, ELECTRICIAN SHALL TRACE EXISTING CIRCUIT TO DETERMINE CIRCUIT LOADING. THE LOAD ON A 20 AMP CIRCUIT SHALL NOT EXCEED 16 AMPS WHERE THIS CANNOT ACHIEVED, CONTRACTOR SHALL CONTACT THE ENGINEER FOR ALTERNATIVE CIRCUITING INSTRUCTIONS.

ELECTRICAL SHEET LIST	
Sheet Number	Sheet Name
E1.0	LEGEND
E1.1	DIAGRAM
E1.2	SCHEDULE
E1.3	ELECTRICAL DETAILS
E2.1	LIGHTING FLOOR PLAN

FIRE ALARM		
V	FIRE ALARM VISUAL STATION - LIGHT ONLY	
F	FIRE ALARM MANUAL PULL STATION	
F	FIRE ALARM HORN/VISUAL	
M	MAGNETIC DOOR HOLDER	
H	HEAT DETECTOR	
SD	DUCT SMOKE DETECTOR	
S	SMOKE DETECTOR	
FS	SPRINKLER SYSTEM FLOW SWITCH	
FACP	FIRE ALARM CONTROL PANEL	
RA	FIRE ALARM REMOTE ANNUNCIATOR	

ELECTRICAL ABBREVIATIONS			
ABBR	DEFINITION	ABBR	DEFINITION
A	AMPERE	JB	JUNCTION BOX
ABC	ABOVE COUNTER	KV	KILOVOLT
AC	ALTERNATING CURRENT	KVA	KILOVOLT-AMPERE
AF	AMPERE FUSE	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	LTG	LIGHTING
AHU	AIR HANDLING UNIT	MAX	MAXIMUM
KAIC	AMPS INTERRUPTING CAPACITY x1000	MCB	MAIN CIRCUIT BREAKER
AT	AMPERE TRIP	MCC	MOTOR CONTROL CENTER
ANN	ANNUNCIATOR	MCM	CIRCULAR MILS, THOUSANDS
APP	APPROXIMATE	MECH	MECHANICAL
ARCH	ARCHITECT	MFR	MANUFACTURER
ATS	AUTOMATIC TRANSFER SWITCH	MGAP	MEDICAL GAS ALARM PANEL
AWG	AMERICAN WIRE GAUGE	MLO	MAIN LUGS ONLY
BLDG	BUILDING	MTD	MOUNTED
BSMT	BASEMENT	MTG	MOUNTING
C	CONDUIT	NEC	NATIONAL ELECTRICAL CODE
CAB	CABINET	NTS	NOT TO SCALE
CB	CIRCUIT BREAKER	PNL	PANEL
CKT	CIRCUIT	PH	PHASE
CLG	CEILING	P	POLE
CL	CENTER LINE	PFB	PROVISIONS FOR BREAKER
CT	CURRENT TRANSFORMER	PA	PUBLIC ADDRESS
CU	COPPER	RECP	RECEPTACLE
DISC	DISCONNECT	REFRIG	REFRIGERATOR
DN	DOWN	REQD	REQUIRED
DWG	DRAWING	SN	SOLID NEUTRAL
EA	EACH	SPKR	SPEAKER
EDF	ELECTRIC DRINKING FOUNTAIN	SPEC	SPECIFICATION
EF	EXHAUST FAN	SWBD	SWITCHBOARD
ELEV	ELEVATOR	SWGR	SWITCHGEAR
EP	EXPLOSION-PROOF	TEL	TELEPHONE
EQPT	EQUIPMENT	TTB	TELEPHONE TERMINAL BOARD
EXTG	EXISTING	TV	TELEVISION
FA	FIRE ALARM	TVSS	TRANSIENT VOLT. SURGE SUPPRESSOR
FACP	FIRE ALARM CONTROL PANEL	Typ	TYPICAL
FCU	FAN COIL UNIT	UC	UNDER COUNTER
FLA	FULL LOADS AMPS	UH	UNIT HEATER
FLR	FLOOR	V	VOLT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	VA	VOLTAMPERE
GND	GROUND	W	WATT
HTR	HEATER	WH	WATER HEATER
HT	HEIGHT	WP	WEATHER-PROOF
HP	HORSE POWER	W/	WITH
HW	HOT WATER	W/O	WITHOUT
HWC	HOT WATER CIRCULATING	XFMR	TRANSFORMER
INCAND	INCANDESCENT	XFR	TRANSFER

CITY OF WACO
SOUTH 11TH STREET IMPROVEMENTS



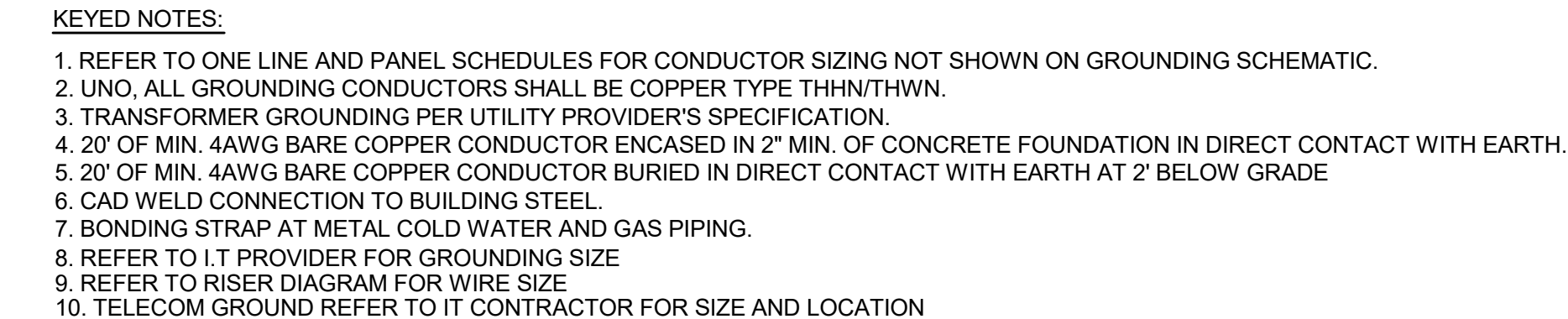
NO.	REVISION	BY	DATE
	VERIFY SCALE		
0	1"		
	ORIGINAL DRAWING. VERIFY LENGTH ON		
	PHOTOCOPY AND ADJUST SCALE		
	AS REQUIRED.		

DESIGN:	2246
DRAWN:	AH
REVIEW:	BK
CP&Y:	
CLIENT:	

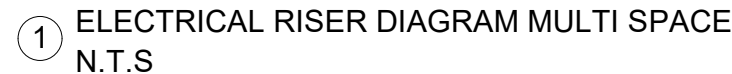
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E1.0

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ELECTRICAL SPECIFICATIONS THE WORK INCLUDES PROVIDING NEW MATERIALS, FIXTURES, DEVICES AND ACCESSORIES NECESSARY FOR A COMPLETE FUNCTIONING ELECTRICAL SYSTEM. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES OR ORDINANCES AND SUBJECT TO INSPECTION.	ELECTRICAL DESIGN HAS BEEN BASED ON THE INSTALLATION OF 75 DEGREES C CONDUCTORS CONNECTED TO TERMINAL LUGS AND EQUIPMENT, U.L. LISTED FOR A MINIMUM 75 DEGREES C CONDUCTORS
1. COMPLY WITH ALL LAWS APPLYING TO ELECTRICAL INSTALLATIONS IN EFFECT, AND WITH THE MOST RECENT EDITION OF THE NATIONAL ELECTRICAL CODE, ADA, APPLICABLE SECTIONS OF OTHER NFPA, OSHA, LIFE SAFETY CODES AND RECOMMENDATIONS, AND THE INTERIM AMENDMENTS IN EFFECT AT THE TIME OF THE PROPOSAL. ALL MATERIALS USED SHALL BE NEW AND SHALL CONFORM TO THE STANDARDS ESTABLISHED BY THE UNDERWRITERS LABORATORIES INCORPORATED.	9. DISCONNECT SWITCHES SHALL BE HEAVY-DUTY, QUICK-MAKE, QUICK-BREAK TYPE, NEMA 1 ENCLOSURE FOR INDOOR LOCATIONS (NEMA 3R FOR OUTDOOR LOCATIONS). SWITCHES SHALL BE AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, OR CUTLER-HAMMER. PROVIDE FUSES AS MANUFACTURED BY BUSSMAN, GOULD-SHAWMUT, OR LITTLE-FUSE. ALL CONDUCTOR TERMINALS TO BE U.L. LISTED FOR A MINIMUM OF 75 DEGREES C. SWITCHES USED AS SERVICE ENTRANCE EQUIPMENT TO BE U.L. LISTED AS "SER" RATED EQUIPMENT.
2. THE INTENT OF THE DRAWINGS IS TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR ELECTRICAL WORK ARE DIAGRAMMATIC, SHOWING THE LOCATION, TYPE, DEVICES AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. PROVIDE ALL FIXTURES, DEVICES, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT FURNISHED BY OTHERS.	10. PANELBOARDS SHALL BE AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, CUTLER-HAMMER OR EATON CORP. MEETING U.L. STANDARDS 50 AND 67, WITH U.L. LABEL. PANELS USED AS SERVICE ENTRANCE EQUIPMENT TO BE U.L. LISTED AS "SER" RATED EQUIPMENT. BUS BARS SHALL BE COPPER.
3. TEMPORARY SERVICES: ARRANGE FOR SOURCES OF TEMPORARY CONSTRUCTION SERVICES. SUCH SERVICES SHALL BE NOMINALLY 120/240 VOLT, SINGLE-PHASE, THREE-WIRE FROM WHICH A COMPLETE SYSTEM OF TEMPORARY POWER AND LIGHTING CAN BE PROVIDED FOR ALL CONSTRUCTION NEEDS.	11. BREAKERS: THERMAL MAGNETIC TYPE, QUICK-MAKE, QUICK-BREAK, BOLT-IN TYPE OF SINGLE UNIT CONSTRUCTION. TWO AND THREE POLE BREAKERS SHALL BE SINGLE UNIT COMMON TRIP TYPE. BREAKERS USED AS SWITCHES FOR 120V LIGHTING CIRCUITS SHALL BE APPROVED FOR THAT USE AND MARKED "SW". ALL BREAKERS FOR HVAC AND REFRIGERATION EQUIPMENT SHALL BE "HACR" RATED BREAKERS.
4. ELECTRICAL DESIGN FOR THIS INSTALLATION IS BASED ON FIELD INSPECTIONS FOR THE EXISTING BUILDING. ELECTRICAL CONTRACTOR IS TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING. ALLOWANCES ARE TO BE INCLUDED FOR UNFORESEEN EXISTING CONDITIONS THAT MAY EFFECT THE CONTRACTOR'S SCOPE OF WORK. MINOR DEVIATIONS REQUIRED FOR ACCOMPLISHING THE INTENT OF THIS DESIGN IS TO BE INCLUDED IN THIS ALLOWANCE.	12. CABINETS SHALL BE ONE PIECE CODE GAUGE GALVANIZED STEEL WITH MOUNTING STUDS, WIRING GUTTERS OF AMPLE SIZE AND KNOCKOUT FOR CONDUIT CONNECTIONS AS REQUIRED. BUS BARS SHALL BE 98 PER CENT CONDUCTIVE COPPER, ALUMINUM, OR COPPER-CLAD ALUMINUM. FRONTS SHALL BE ONE PIECE CODE GAUGE FURNITURE STEEL WITH ADJUSTABLE FASTENERS. PROVIDE A PLASTIC COVERED TYPEWRITTEN SCHEDULE IDENTIFYING ALL BRANCH CIRCUITS INSIDE EACH CABINET. RECESSED CABINETS TO BE INSTALLED WITH A MINIMUM (2) 3/4" SPARE CONDUITS STUBBED UP TO ACCESSIBLE CEILING SPACE.
5. ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES. ANY ITEM DAMAGED BY THIS CONTRACTOR IS TO BE REPAIRED IMMEDIATELY AND AT NO COST TO THE OWNER.	13. GROUNDING SYSTEM, PERMANENTLY AND EFFECTIVELY GROUND ALL METALLIC CONDUIT, SUPPORTS, CABINETS, PANELBOARDS AND SYSTEM NEUTRAL CONDUCTORS. MAINTAIN CONTINUITY OF EQUIPMENT GROUND THROUGHOUT THE SYSTEM. GROUND CLAMPS SHALL BE APPROVED TYPE, SPECIFICALLY DESIGNED FOR GROUNDING. WHERE GROUNDING CONDUCTOR IS ENCLOSED IN CONDUIT, GROUND CLAMP SHALL BE OF A TYPE WHICH GROUNDS BOTH CONDUCTOR AND CONDUIT. ALL CIRCUITS INFLEXIBLE METAL OR PLASTIC CONDUIT SHALL INCLUDE A GROUND WIRE SIZED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.
6. ROOF PENETRATIONS SHALL COMPLY WITH "SMACNA" AND "NRCA" STANDARDS, AND WITH THE REQUIREMENTS OF THE EXISTING ROOFING WARRANTY, IF APPLICABLE. DO NOT PERFORM ROOFING PENETRATIONS IN A MANNER WHICH WOULD VOID OR OTHERWISE LIMIT THE EXISTING ROOFING WARRANTY.	14. CONDUIT SHALL BE SIZED TO COMPLY WITH NEC FOR NUMBER AND SIZE OF CONDUCTORS INSTALLED, MINIMUM 24" BELOW GRADE. PROVIDE SCHEDULE 40 PVC PLASTIC OR RIGID STEEL CONDUIT BELOW GRADE, MINIMUM 3/4" PROVIDE ELECTRICAL METAL TUBING (EMT) MEETING FS W-C563, OR FLEXIBLE CONDUIT (IN LENGTHS 6' OR LESS) FOR INTERIOR LOCATIONS. EMT CONNECTORS AND COUPLING SHALL BE SET-SCREW TYPE. CLAMP CONDUIT TO BOXES WITH BUSHING INSIDE AND LOCKNUT OUTSIDE. MC CABLE ACCEPTABLE FOR CONCEALED INSTALLATIONS.
7. ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING EQUIPMENT AS SHOWN ON DESIGN DRAWINGS ARE IN GOOD WORKING CONDITION PRIOR TO RE-USING. IF EXISTING CONDITIONS ARE NOT AS SHOWN OR ARE NOT IN GOOD WORKING CONDITION, CONTRACTOR SHALL PROVIDE EQUIPMENT, CONDUIT, AND/OR WIRE INDICATED TO PROVIDE A "LIKE-NEW" AND CODE COMPLIANT INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR RELOCATING ANY EXISTING ITEMS BEING REUSED. ANY EXISTING EQUIPMENT, CONDUIT OR WIRE NOT BEING REUSED SHALL BE REMOVED BY THIS CONTRACTOR.	



120/240V 1PH 2000 AMP

MAIN SERVICE ENTRANCE:
ELECTRICAL CONTRACTOR
RESPONSIBLE FOR EXCAVATION,
BENCHING AND BACKFILLING

WIRE SIZING SCHEDULE THREE PHASE	
CIRCUIT BREAKER	COPPER WIRE SIZE (INCLUDES NEUTRAL)
20 AMP	(4) 12, #12GR., 1/2".
25 AMP	(4) 10, #10GR., 1/2".
30 AMP	(4) 10, #10GR., 3/4".
35 AMP	(4) 8, #10GR., 3/4".
40 AMP	(4) 8, #10GR., 3/4".
45 AMP	(4) 6, #10GR., 1".
50 AMP	(4) 6, #10GR., 1".
55 AMP	(4) 6, #10GR., 1".
60 AMP	(4) 4, #10GR., 1-1/4".
65 AMP	(4) 4, #8GR., 1-1/4".
70 AMP	(4) 4, #8GR., 1-1/4".
80 AMP	(4) 3, #8GR., 1-1/4".
90 AMP	(4) 2, #8GR., 1-1/4".
100 AMP	(4) 2, #8GR., 1-1/4".
125 AMP	(4) 1, #8GR., 1-1/2".
150 AMP	(4) 1/0, #6GR., 2".
200 AMP	(4) 3/0, #6GR., 2".
225 AMP	(4) 4/0, #4GR., 2-1/2".
250 AMP	(4) 250KCM, #4GR., 2-1/2".
400 AMP	(4) 600KCM, #3GR., 3-1/2".

NOTES
CONTRACTOR TO INCREASE WIRE SIZING FOR
LONG RUNS OF WIRING FOR VOLTAGE DROP
ALLOWANCE. VOLTAGE DRAP SHALL NOT
EXCEED 3 PERCENT

NOTIFIER: A HONEYWELL COMPANY
GAMEWELL: A HONEYWELL COMPANY
SILENT KNIGHT: A HONEYWELL COMPANY
SIMPLEX GRINNELL: A TYCO COMPANY
SIEMENS BUILDING TECHNOLOGIES, FIRE SAFETY DIVISION
FEDERAL SIGNAL CORPORATION

34. ALL GFCI PROTECTIVE DEVICES SHALL BE READILY ACCESSIBLE AS IDENTIFIED IN NEC 2020.

34. ALL GFCI PROTECTIVE DEVICES SHALL BE READILY ACCESSIBLE AS IDENTIFIED IN NEC 2020

NO.	REVISION	BY	DATE
	VERIFY SCALE	BAR LENGTH EQUALS ONE INCH ON ORIGINAL DRAWING. VERIFY LENGTH ON	
0	1"	1"	
		ADJUST SCALE ACCORDINGLY	

CITY OF WACO
SOUTH 11TH STREET IMPROVEMENTS

DESIGN:	2246
DRAWN:	AH
REVIEW:	BK
CP&Y:	
CLIENT:	

SHEET

E1.1



ELECTRICAL
 PLUMBING
 MECHANICAL

TRILOGY
ENGINEERING

TRIBE # F-14307
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PANELBOARD NO: A														ENGINEER: Brad Kroll P.E.											
SECTION: 1 OF 1							VOLTAGE: 240/120							BUS: 200							MAIN: 200 M.C.B				
MOUNTING: SURFACE							PHASE: 1							INTERRUPTING RATING:							ELECTRONIC GRADE PANEL: NO				
POLES: 12							WIRE: 3							ISOLATED GROUND BUS: NO											
LOCATION: ELECT. CLOSET							GROUND BUS: YES																		
							200% NEUTRAL: NO																		

PANELBOARD NO:

A

Note: * Indicates circuit breaker shall be GFCI

NOTE 1: PROVIDE 'LOCK ON' DEVICE FOR C.B.

SUBTOTAL CONNECTED KVA	1.5	0.7	0.0	0.0	0.0	0.0	0.0	SUBTOTAL CONNECTED KVA
					1.5	0.7	0.0	TOTAL CONNECTED KVA

PHASE BALANCE						
	LTS	REC	MECH	MISC	TOTAL	% DIF
PHASE A CONNECTED KVA	1.5	0.0	0.0	0.0	1.5	105.3
PHASE B CONNECTED KVA	0.0	0.7	0.0	0.0	0.7	-5.3
AVERAGE PHASE CONNECTED KVA					0.7	

LOAD SUMMARY & FEEDER CALCULATION						
LTs	REG	MECH	MISC	SUBTOT	SPARE	TOTAL
1.5	0.7	0.0	0.0	2.2	0.0	CONNECTED KVA
1.0	#1	1.0		%		DEMAND FACTOR
1.5	0.7	0.0	0.0	2.2	0.0	DEMAND KVA
						DEMAND AMPS
1.25	1.0	1.0	1.0		1.0	CONTINUOUS / NON-CONTINUOUS FACTOR
					0.80	ADJUSTMENT FACTOR
					1.00	CORRECTION FACTOR (OTHER THAN 30 DEG C)
					10.5	MIN. OVERCURRENT DEVICE AMPS
					10.5	MIN. COND. AMPS PER TERMINATION RATING
					11.2	MIN. COND. AMPS PER INSULATION RATING

LIGHT FIXTURE TYPE "A"

[illegible]

800-621-3376
555 Lawrence Ave., Roselle, IL 60172
info@sternberglighting.com
www.sternberglighting.com

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[Index Page](#)

Submitted by: HOSLEY LPS


HOSLEY LPS
 LIGHTING AND POWER SOLUTIONS

Job Name:

Catalog Number:

Type:

3.29

Notes:

RTN11-022625

A85V-COBB OLD TOWN SERIES

be set screwed to the pole top or tension. The fixture shall have a one piece ring hub gasket to resist input penetration into lamp assembly. When supplied with (2) encapsulate a hole-in-hole be provided for cord and plug installation with the access door closed. When cord and plug is in use a filter plug will be provided and shall be returned to the fabric for easy recovery and installation.

Twist-Lock Filter (Optional)

The L (Twist-Lock) Filter shall have an aluminum die-cast twist-lock mechanism. The twist-lock / turn action allows for easy globe removal and replacement. A die-cast ring assembly is mechanically attached to the globe and is removable if the globe is broken or replaced.

LED's

The luminaires shall have **high output, high brightness LED's**, consisting of a two piece assembly compliant with Chip on Board (COB) assembly components and COB holder frame mounted to vented heat sinks. The LED's and printed circuit boards shall be 100% recyclable; they shall also be protected from moisture and corrosion by a conformal coating. The fixture shall not contain lead, mercury or any other hazardous substances and shall be RoHS compliant. The LED life rating data shall be determined in accordance with IESNA LM-80. The High Performance white LED's will have a life expectancy of approximately 100,000 hours with not less than 70% of original brightness (lumen maintenance) rated at 25°C. The High brightness, High Output LED's shall be 4000K (2700K, 3000K or COOL white) color temperature with a minimum CRI of 75. Consult factory for custom color CCT. The luminaires shall have a minimum _____ (see table) delivered initial lumen rating when operated at steady state with mean rating when temperature of 25°C (77°F).

Optics

The luminaire shall be provided with individual, molded silicone refractive type optics applied to each COB chip. On Board LED assembly. The optics shall be at least 92% efficient while providing superior light, UV and impact resistance for the COB assembly. The optics helps efficiently shape and distribute the lights while minimizing up-light. The luminaire shall provide Symmetric and Asymmetric light distribution. Testing shall be done in accordance with IESNA LM-79.

Electronic Drivers

The LED driver shall be UL recognized and shall be factory encased inside the luminaire for optimized performance and longevity. It shall be supplied with a quick-disconnect electrical connector on the power supply, providing easy power connections and future installation. It shall have overvoltage, overheat and short circuit protection, and have a DC-voltage output, constant current output, 50/60 HZ/Hz. It shall be supplied with line-ground, line-neutral and neutral-ground electrical source protection in accordance with IEEE/ANSI C62.41 guidelines. It

shall be a high efficiency driver with a THD less than 20% and a high power factor greater than 0.9 it shall be dimming capable using a 0-10V signal, consult factory for more information.

Photocouplers

Button Style: The photocoupler shall be mounted on the fixture and pre-wired to deliver. The electronic button type photocoupler is instant on with a 5 to 10 second turn off, and shall turn on as it is footcandle with a turn off at 2-3 footcandles. Photocoupler is 120-277 volt and warranted for 5 years. See price spec sheet for photo mounted version.

Twist-Lock Style: The photocoupler shall be mounted in the utility flange and pre-wired to driver. The twist lock photocoupler is instant on with a 3-6 second turn off, and shall turn on at 1-6 footcandles with a turn off at 2-3 footcandles. Photocoupler is 120-277 volt and warranted for 5 years.

Warranty

Seven year limited warranty. See product and fixture warranty guide for details.

Finishes

Refer to website for details.

Performance

LIGHT SOURCE	TM LUMENS	EFFICIENCY (LM/W)	WATTAGE	WATTAGE (W)	WATTAGE (W)	WATTAGE
4,400 - 5,000	7890	95.4	1200	140.0	140.0	75
4,400 - 5,000	7890	95.4	1200	140.0	140.0	75
4,400 - 5,000	7890	95.4	1200	140.0	140.0	75
4,400 - 5,000	6945	111.3	6440	115.6	115.6	58
4,400 - 5,000	6945	111.3	6440	115.6	115.6	56
4,400 - 5,000	4910	91.2	5700	107.3	107.3	56
4,400 - 5,000	4445	111.3	4635	115.1	115.1	49
4,400 - 5,000	4910	101.8	4915	104.8	104.8	49



800-621-3376
555 Lawrence Ave., Roselle, IL 60172
info@sternberglighting.com
www.sternberglighting.com
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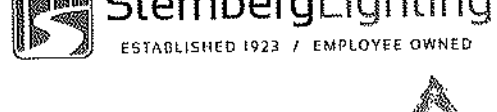
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217

[illegible]

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110067

CITY OF WACO
SOUTH 11TH STREET IMPROVEMENTS

DESIGN:	2246
DRAWN:	AH
REVIEW:	BK
CP&Y:	
CLIENT:	

SHEET

E1.2

WWW.TRILOGYENG.COM

1.0 LIGHTING POLES AND FIXTURES:
THE LIGHTING POLES FURNISHED FOR MOUNTING LUMINAIRES SHALL BE FREE FROM IMPERFECTIONS AND PRESENT A PLEASING APPEARANCE WHEN PLUMBED AND SECURED TO THE FOUNDATION. THE FINISHED POLE SHALL HAVE A SMOOTH UNIFORM FINISH FREE FROM PITTS, SCRATCHES, BLISTERS OR OTHER DEFECTS. EACH SHAFT SHALL HAVE A REMOVABLE POLE CAP. THE MOUNTING LIGHT SHALL BE AS SPECIFIED PER POLE TYPE. ALL FIXTURES SHALL NOT REQUIRE INDIVIDUAL PHOTOCELLS OR PHOTOCELL SOCKETS. ALL POLES SHALL NOT HAVE FACTORY INSTALLED FUSE HOLDERS, BUT SHALL HAVE EXTERNAL FUSE HOLDERS INSTALLED AT THE BASE OF EACH POLE. ALL ANTIQUE LIGHT POLES AND FIXTURES SHALL HAVE A POWDER COAT PAINT FINISH.

THE ANTIQUE LIGHT POLE AND FIXTURE MANUFACTURE AND PART NUMBER:

SHOE BOX TYPE AREA LIGHTING POLE AND FIXTURE (PARKING LOTS ONLY)
THE SHOE BOX TYPE LIGHT POLE AND FIXTURE MANUFACTURE PART NUMBER:

COLOR CODE: POWDER COAT PAINT COLOR # RAL 8019 (BLACK GREEN)

POLE MANUFACTURE: KW POLE OR APPROVAL EQUAL
POLE PART NUMBER: SINGLE FIXTURE #SSP30-6.0-7-BRZ DM10 WITH 2 IN. X 12 IN. HORIZONTAL
PIPE TENON MOUNT

FIXTURE MANUFACTURE: DURALIGHT OR APPROVED EQUAL*

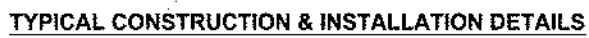
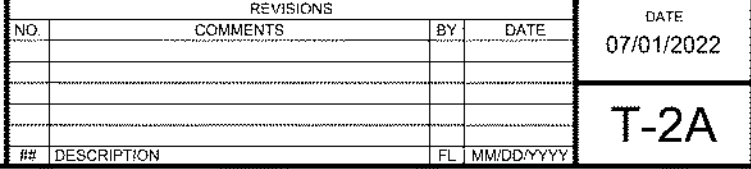
FIXTURE PART NUMBER: # JXM-ST110 - LED COBRA HEAD, 120-277 VOLT
 # JXM-ST110 - LED COBRA HEAD, 480 VOLT

- * FIXTURES MUST HAVE BEEN OR BE SUBMITTED TO CITY OF WACO FOR INFIELD TESTING.
TESTED AND APPROVED LIGHTS LISTED IN SECTION 1.1.
- ** ORIGINAL TESTED FIXTURES WERE LED ILLUMINATION 150W, 225W, CURRENT EQUIVALENT.

<u>250W EQUIVALENT:</u>	<u>400W EQUIVALENT:</u>
EOI 150W (#ESL-02A011S15065A)	DURALIGHT 180W (#JXM-ST180)
PRUF 112W (#230-01)**	PRUF 168W (#240-01)**
LEOTEK 109W (#SL-250WLM3-FX)	LEOTEK 166W (#SL-400WLM3-FX)

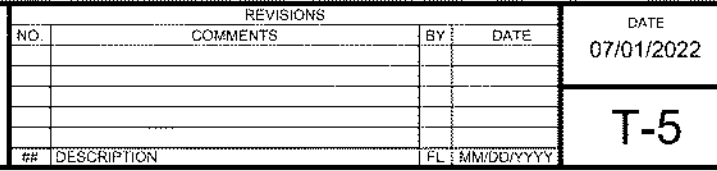
FOUR HIGH STRENGTH 1 IN. STEEL ANCHOR BOLTS SHALL BE FURNISHED WITH EACH POLE. ANCHOR BOLTS SHALL BE FABRICATED FROM A GOOD COMMERCIAL QUALITY HOT ROLLED CARBON STEEL BAR WITH MINIMUM TENSILE STRENGTH OF 50,000 PSI. EACH ANCHOR BOLT SHALL BE THREADED AT THE TOP AND THE BOTTOM WITH DOUBLE END THREADS. THE LENGTH OF EACH BOLT SHALL BE 12 IN. BEND THE ANCHOR BOLTS SHALL BE OF SUFFICIENT LENGTH AND DIAMETER TO DEVELOP THE FULL STRENGTH OF THE SHAFT. THE THREADED END OF THE BOLT SHALL BE GALVANIZED A MINIMUM LENGTH OF 8 IN. FROM THE THREADED END WITH A MINIMUM THREADED LENGTH OF 6 IN. ALL NECESSARY ANCHOR BOLTS AND ANCHOR BOLT NUTS SHALL BE FURNISHED BY THE POLE MANUFACTURER. THE POLE MANUFACTURER SHALL CONTRACT, REGARDLESS OF DELIVERY SCHEDULES OF THE POLES, ADDITIONAL HARDWARE SHALL BE PROVIDED AND MAY BE DELIVERED WITH THE POLES.

DISCLAIMER: THE USE OF THIS STANDARD IS COVERED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.



CP3B IN.ML IN. SERIES
(NO SCALE)

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.



3.0 PHOTOELECTRIC CONTROL:
THE PHOTOELECTRIC CELLS SHALL BE TWIST PLUG IN TYPE PRECISION BRAND TO MATCH FIXTURE OR CONTACTOR VOLTAGE.

ELECTRICAL SERVICE EQUIPMENT SHALL INCLUDE, BUT NOT BE LIMITED TO, METERED SERVICE/DISCONNECT OR CONTACTOR ENCLOSURE. ALL ENCLOSURES HOUSING ELECTRICAL EQUIPMENT SHALL BE RAIN-TIGHT, INCLUDE A PADLOCK HANDLE, AND DESIGNED FOR OUTDOOR INSTALLATION IN ACCORDANCE WITH THE LIGHTING FIXTURES AND LUMINAIRE REQUIREMENTS AND WITH THE APPLICABLE PROVISIONS OF THE NATIONAL ELECTRICAL SAFETY CODE AND NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION SPECIFICATIONS. A STANDALONE, PEDESTAL TYPE COMBINATION METERED SERVICE/DISCONNECT/CONTACTOR CONTROL PANEL SHALL BE USED. THE PEDESTAL TYPE SERVICE EQUIPMENT MAY BE USED AS A CONTROL PANEL FOR OUTDOOR LIGHTING. IF THIS IS RECOMMENDED, THE VOLTAGE REQUIREMENT, IF DESIRED SHOULD BE 120/240V OR 208/250V SINGLE PHASE. IF NOT AVAILABLE, AN OPTIONAL SERVICE VOLTAGE MAY BE ACCEPTABLE IF APPROVED BY CITY STAFF. EACH SERVICE POINT SHALL INCLUDE INDIVIDUAL CIRCUIT BREAKERS AND PHOTOCELL CONTROLLED CONTACTORS), AND A HOA SWITCH FOR CONTROL OF THE LIGHTING CIRCUITS). METER SERVICES SHALL REQUIRE TWO FEEDS. IF ONLY ONE FEED IS AVAILABLE, THE METER SHALL BE INSTALLED ON THE ELECTRIC METER, APPLICATION FOR SERVICE WILL BE MADE BY CITY STAFF. THE COLOR OF THE ELECTRICAL SERVICE EQUIPMENT SHALL BE MANUFACTURE STANDARD LIGHT OR MINT GREEN.

RECOMMENDED, ONCOR APPROVED, SERVICE PEDESTALS ARE MILBANK BRAND.

ALL ELECTRICAL WIRE SHALL BE STRANDED COPPER CONDUCTOR. EARTH GROUND SHALL BE STRANDED COPPER CONDUCTOR WITH GREEN INSULATION. ALL WIRE SHALL BE OF ADEQUATE SIZE TO ACCOMMODATE LIGHTING LOAD. ALL SPLICES SHALL BE MADE INSIDE THE POLE. MINIMUM CONDUCTOR SIZE SHALL BE 10 AWG.

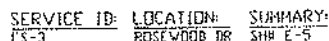
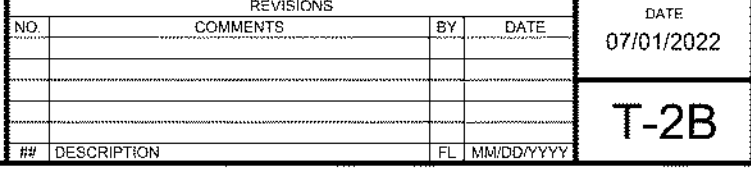
SEE STANDARD DETAIL G-7 GENERAL CONCRETE AND REINFORCEMENT NOTES.

ALL FOUNDATION BASES SHALL BE (24) TWENTY-FOUR INCHES IN DIAMETER. TOP OF BASES SHALL EXTEND (6) SIX INCHES ABOVE GRADE. TOP OF FOUNDATION SHALL HAVE A 1 IN. CHAMFER. STEEL REBAR SHALL BE USED TO FOR CONCRETE REINFORCEMENT THROUGHOUT THE ENTIRE BASE. ALL FOUNDATIONS SHALL HAVE A MINIMUM OF TWO 2 IN. PVC CONDUITS INSTALLED. FOUNDATION SHALL BE POSITIONED WITH OUTSIDE EDGE A MINIMUM OF 2 FT. FROM BACK OF CURB.

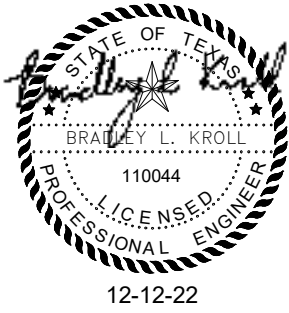
- FOR AREA LIGHTING POLES IN EXCESS OF (18) EIGHTEEN FEET IN HEIGHT, BASES SHALL EXTEND A MINIMUM OF (6) SIX FEET BELOW GRADE.
- FOR DECORATIVE POLES NOT TO EXCEED (18) EIGHTEEN FEET, BASES SHALL EXTEND A MINIMUM OF (3) THREE FEET BELOW GRADE.

EXCEPTION: FOR PARKING LOT INSTALLATIONS, ALL BASES SHALL BE (30) THIRTY INCHES IN DIAMETER AND EXTEND A MINIMUM OF (36) THIRTY-SIX INCHES ABOVE GRADE. BELOW GRADE SPECIFICATIONS SHALL REMAIN AS STATED ABOVE.

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

[illegible]

CP&Y, INC.
TEXAS REGISTERED ENGINEERING FIRM
TBP# F-1741

[illegible]

CITY OF WACO
SOUTH 11TH STREET IMPROVEMENTS

DESIGN:	2246
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DRAWN:	AH
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REVIEW:	BK
GRN:	

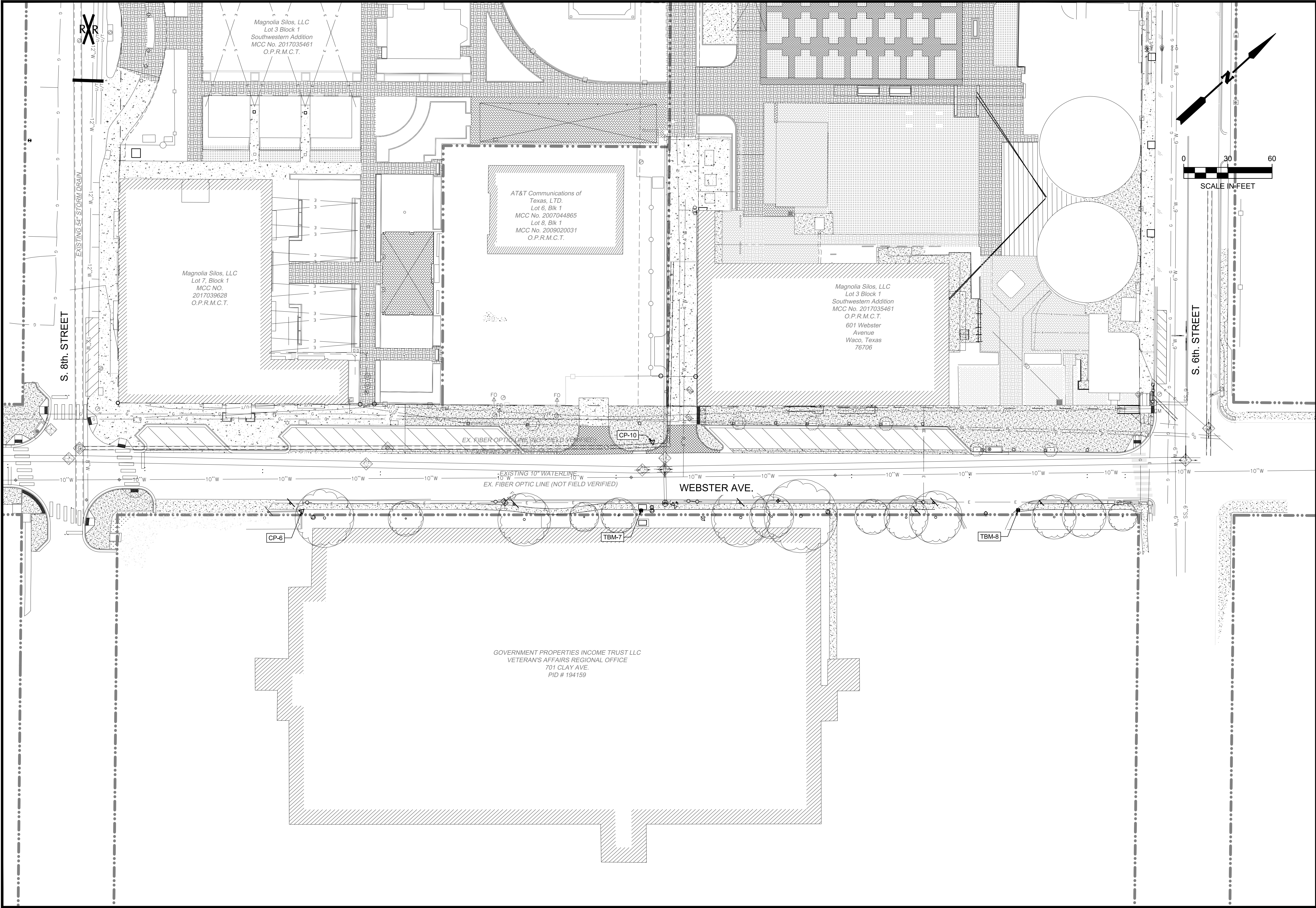
CP&Y.
CLIENT:

SHEET

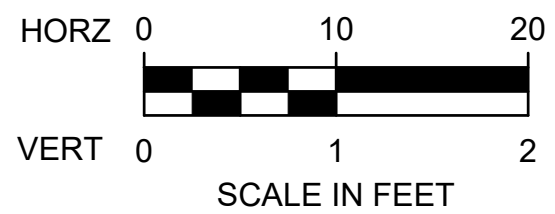
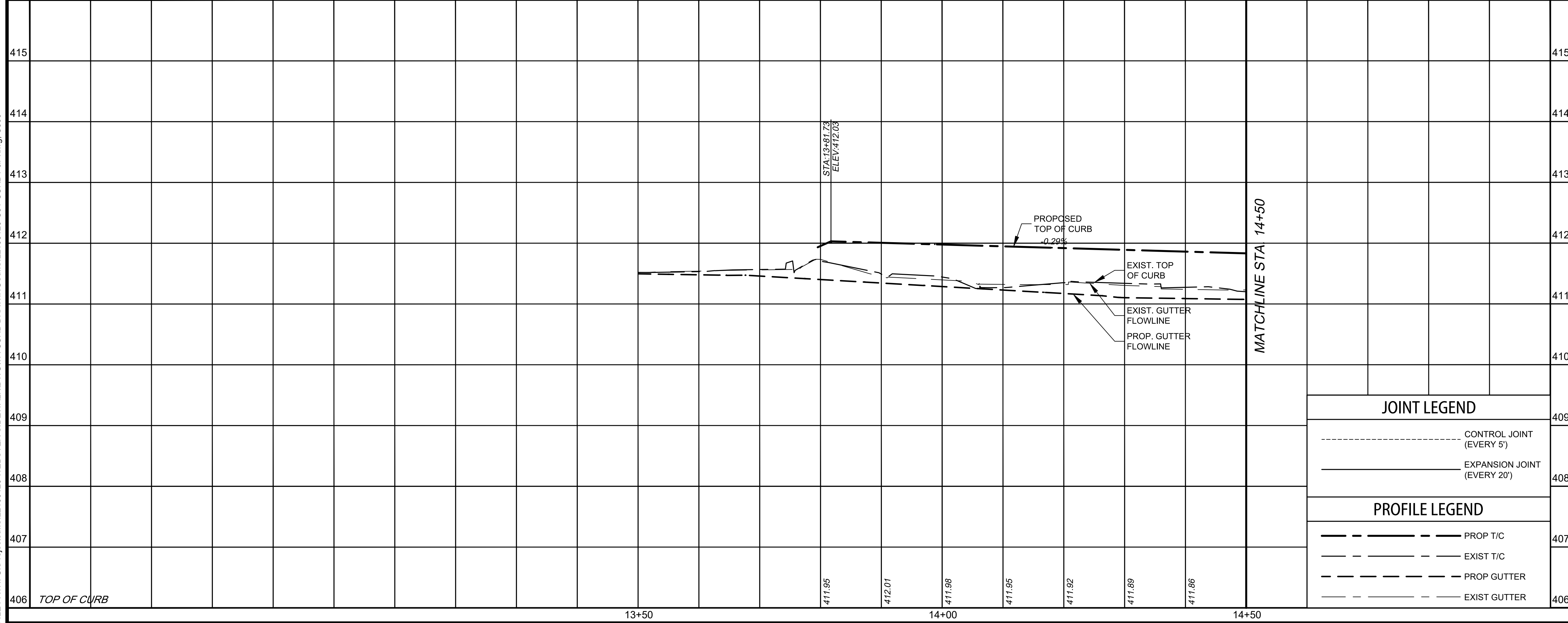
E1.3

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WEBSTER AVE EAST CURBLINE IMPROVEMENTS

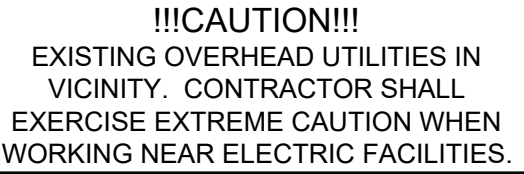


DESIGN: DLM DRAWN: ECM REVIEW: DLM CP&Y: CWAC 2200983 CLIENT:		SHEET C401	
CITY OF WACO WEBSTER AVE EAST CURBSIDE IMPROVEMENTS EXISTING SURVEY			
NO.		REVISION	BY DATE
VERIFY SCALE 0 1" = 100'		BAR LENGTH EQUALS ONE INCH ON ORIGINAL DRAWING. VERIFY LENGTH ON THIS SHEET AND ADJUST SCALE ACCORDINGLY.	
 CP&Y, INC. TEXAS REGISTERED ENGINEERING FIRM TBPE F-1741			

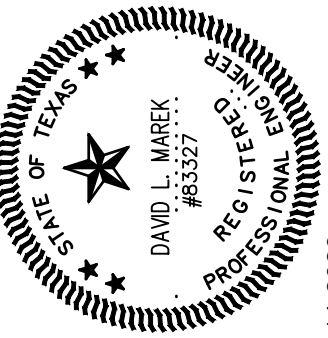


- ① REINFORCED CONCRETE STANDARD CURB & GUTTER PER C.O.W. STANDARDS
- ④ CURB TRANSITION
- ⑩ REINFORCED CONCRETE SIDEWALK PER C.O.W. STD DETAILS, INCLUDING VARIABLE HEIGHT CURB
MIN. CROSS SLOPE: 1%
MAX CROSS SLOPE: 2%
VERTICAL DIFFERENCE AT ALL THRESHOLDS TO BE 1/4" MAXIMUM
- ⑬ SOLID BLOCK SOD, VARIETY TO MATCH EXISTING VARIETY, SCARIFY EXISTING GROUND PRIOR TO PLACEMENT, PROVIDE WATERING AS NEEDED TO ESTABLISH SOD AT NO ADDITIONAL COST TO OWNER
- ⑰ SELECT FILL TO WITHIN 8" OF FINAL GRADE. INSTALL 4" OF RECLAIMED OR IMPORTED TOPSOIL ON SELECT FILL
- ⑤⑤ CRACKSEAL NEW ASPHALT EDGES WITH GRAFCO POLYFLEX TYPE 3 OR APPROVED EQUAL
- ⑦② 2" HMAC TYPE 'C' & 2000 PSI CONCRETE BASE PER C.O.W. DETAIL ST-20
- ⑦③ VARIABLE THICKNESS HMAC OVERLAY, TxDOT ITEM 340, TYPE 'C'. INCLUDING TRAIL, HOT APPLIED
- ⑨⑧ INSTALL NEW POLE & FOUNDATION PER C.O.W. DETAIL T-6, REACTOR RETAINED SIGNAGE. IF DAMAGED, CONTRACTOR TO REPLACE SIGN AT NO ADDITIONAL COST TO OWNER.
- ⑪⑦ 5'X3' TREE WEL W/ ROOT BARRIER PER C.O.W. DETAIL G-3

11 CONTRACTOR TO CONTACT OWNER A MINIMUM OF 48 HOURS PRIOR TO DEMOLITION ACTIVITY OCCURRING. ANY DAMAGE TO SPRINKLER SYSTEM WILL BE REPAIRED TO EXISTING OR BETTER CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.



!!!WARNING!!!
THE ENGINEER ASSUMES NO
RESPONSIBILITY FOR THE ACCURACY
OF THE LOCATION OF UNDERGROUND
UTILITIES. THE CONTRACTOR SHALL
BE RESPONSIBLE FOR LOCATION AND
AVOIDING ALL EXISTING UTILITIES BY
CALLING THE 'ONE CALL' LOCATOR
SERVICE AT (800)344-8377 AT LEAST 48
HOURS PRIOR TO CONSTRUCTION.

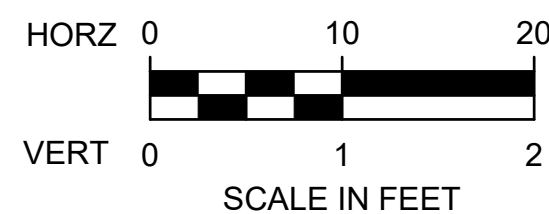
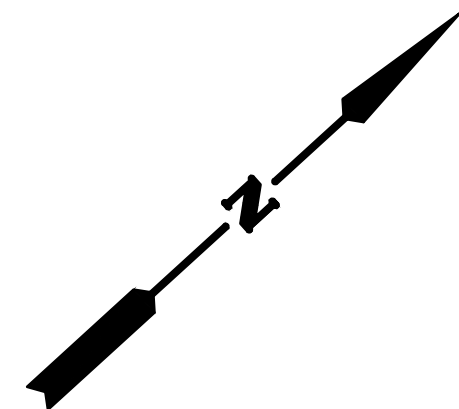
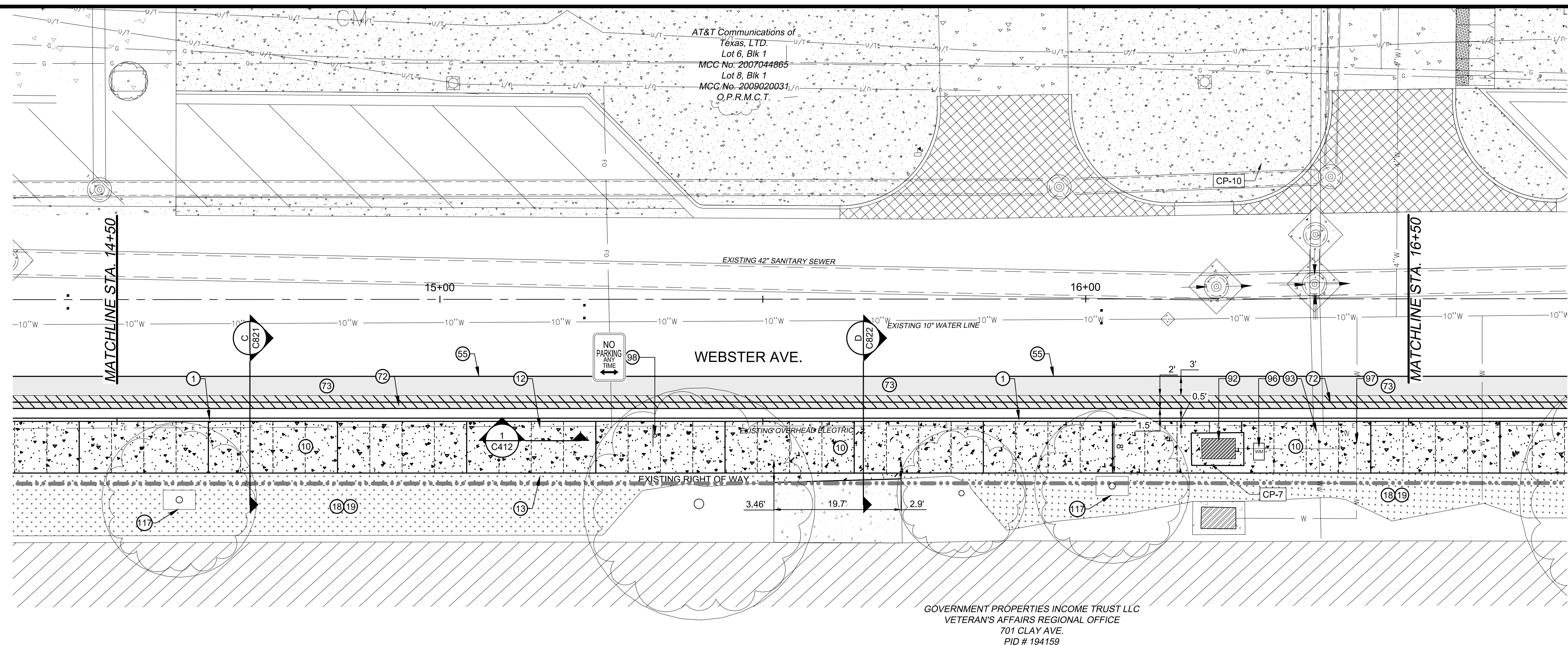


NO.	REVISION	BY	DATE
	VERIFY SCALE		BAR LENGTH EQUALS ONE INCH ON ORIGINAL
	0 1"		DRAWING. VERIFY LENGTH ON THIS SHEET
			AND, AND USE SCALE ACCORDINGLY.

CITY OF WACO
WEBSTER AVE EAST CURBLINE IMPROVEMENTS
STREET SCAPING IMPROVEMENTS
STA. 13+00 TO STA. 14+50

DESIGN: DLM
DRAWN: ECM
REVIEW: DLM
P&Y: CWAC220098
CLIENT:

SHEET
C500



SITE CALLOUTS

- 1 REINFORCED CONCRETE STANDARD CURB & GUTTER PER C.O.W. STANDARDS
- 4 CURB TRANSITION
- 10 REINFORCED CONCRETE SIDEWALK PER C.O.W. STD DETAILS, INCLUDING VARIABLE HEIGHT CURB
MIN. CROSS SLOPE: 1%
MAX CROSS SLOPE: 2%
VERTICAL DIFFERENCE AT ALL THRESHOLDS TO BE 1/4" MAXIMUM
- 18 SOLID BLOCK SOD. VARIETY TO MATCH EXISTING VARIETY. SCARIFY EXISTING GROUND PRIOR TO PLACEMENT. PROVIDE WATERING AS NEEDED TO ESTABLISH SOD AT NO ADDITIONAL COST TO OWNER
- 19 SELECT FILL TO WITHIN 8" OF FINAL GRADE. INSTALL 4" OF RECLAIMED OR IMPORTED TOPSOIL ON SELECT FILL
- 55 CRACKSEAL NEW ASPHALT EDGES WITH CRAFCO POLYFLEX TYPE 3 OR APPROVED EQUAL
- 72 2" H/MAC TYPE 'C' & 2000 PSI CONCRETE BASE PER C.O.W. DETAIL ST-20
- 73 VARIABLE THICKNESS H/MAC OVERLAY, TxDOT ITEM 340, TYPE 'C'. INCLUDING TRAIL, HOT APPLIED
- 96 INSTALL NEW WATER METER BOX, FLUSH WITH FINAL SIDEWALK GRADE & ELEVATION PER CITY OF WACO DETAIL W-17 OR W-18. RELOCATE EXISTING METER & CONNECT TO EXISTING SERVICE
- 97 INSTALL NEW WATER VALVE BOX, FLUSH WITH FINAL PAVEMENT GRADE & ELEVATION PER CITY OF WACO DETAIL W-7 OR W-8
- 98 INSTALL NEW POLE & FOUNDATION PER C.O.W. DETAIL T-6. REATTACH RETAINED SIGNAGE, IF DAMAGED, CONTRACTOR TO REPLACE SIGN AT NO ADDITIONAL COST TO OWNER.
- 117 5'X3" TREE WELL W/ ROOT BARRIER PER C.O.W. DETAIL G-3

SPECIAL PROJECT NOTES

- 11 CONTRACTOR TO CONTACT OWNER A MINIMUM OF 48 HOURS PRIOR TO DEMOLITION ACTIVITY OCCURRING. ANY DAMAGE TO SPRINKLER SYSTEM WILL BE REPAIRED TO EXISTING OR BETTER CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.



!!!CAUTION!!!
EXISTING OVERHEAD UTILITIES IN VICINITY. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR ELECTRIC FACILITIES.

!!!WARNING!!!
THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION AND AVOIDING ALL EXISTING UTILITIES BY CALLING THE 'ONE CALL' LOCATOR SERVICE AT (800)344-8377 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

415

414

413

412

411

410

409

408

407

406

TOP OF CURB

14+50

15+00

15+50

16+00

16+50

MATCHLINE STA 14+50

MATCHLINE STA 16+50

STA. 15+71.41
ELEV. 411.48

-0.29%

-0.40%

PROPOSED TOP OF CURB

EXIST. TOP OF CURB

EXIST. GUTTER FLOWLINE

PROP. GUTTER FLOWLINE

JOINT LEGEND

----- CONTROL JOINT (EVERY 5')

----- EXPANSION JOINT (EVERY 20')

PROFILE LEGEND

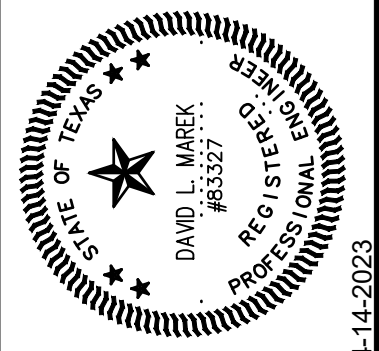
----- PROP T/C

----- EXIST T/C

----- PROP GUTTER

----- EXIST GUTTER

CP&Y
CP&Y, INC.
TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741



NO.	REVISION	BY	DATE
0	VERIFY SCALE 1" = 1"		

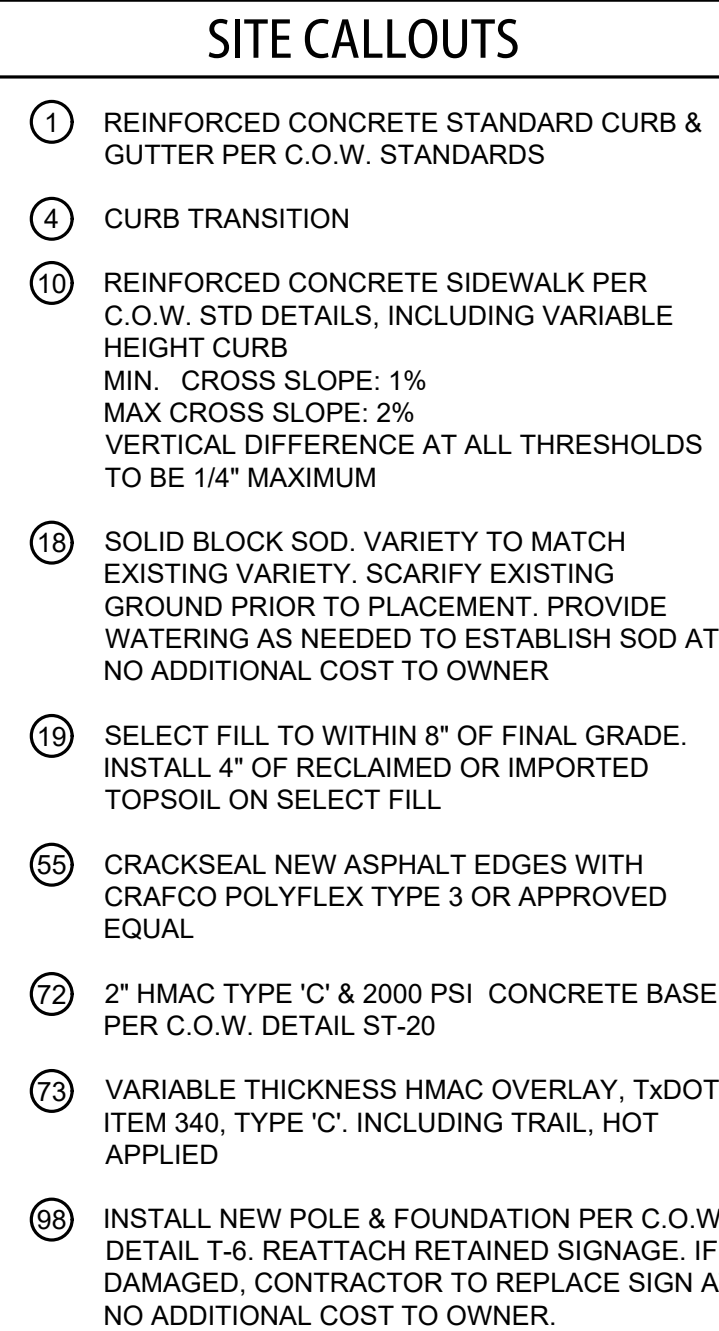
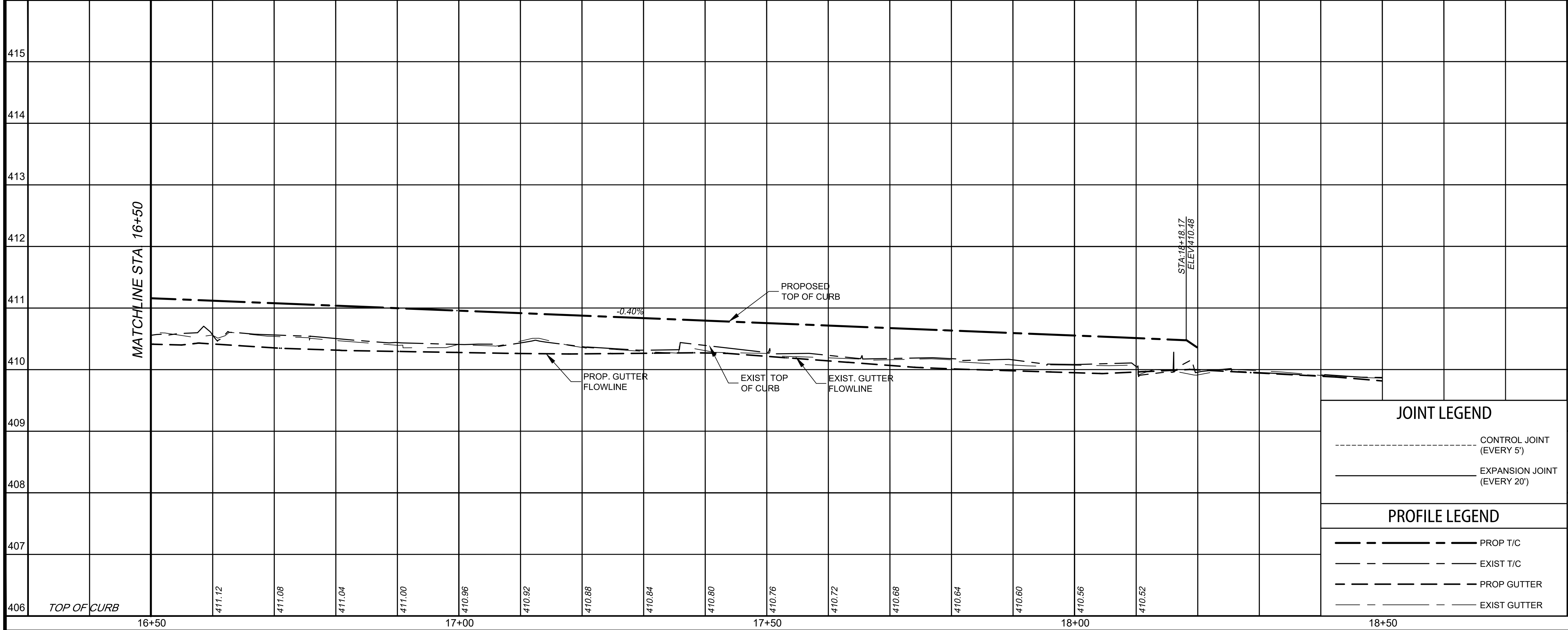
CITY OF WACO
WEBSTER AVE EAST CURBLINE IMPROVEMENTS

STREET SCAPING IMPROVEMENTS
STA. 14+50 TO STA. 16+50

STA. 14+50 TO STA. 16+50

DESIGN: DLM
DRAWN: ECM
REVIEW: DLM
CP&Y: CWAC2200983
CLIENT:

SHEET
C501



11 CONTRACTOR TO CONTACT OWNER A MINIMUM OF 48 HOURS PRIOR TO DEMOLITION ACTIVITY OCCURRING. ANY DAMAGE TO SPRINKLER SYSTEM WILL BE REPAIRED TO EXISTING OR BETTER CONDITIONS AT NO ADDITIONAL COST TO THE OWNER

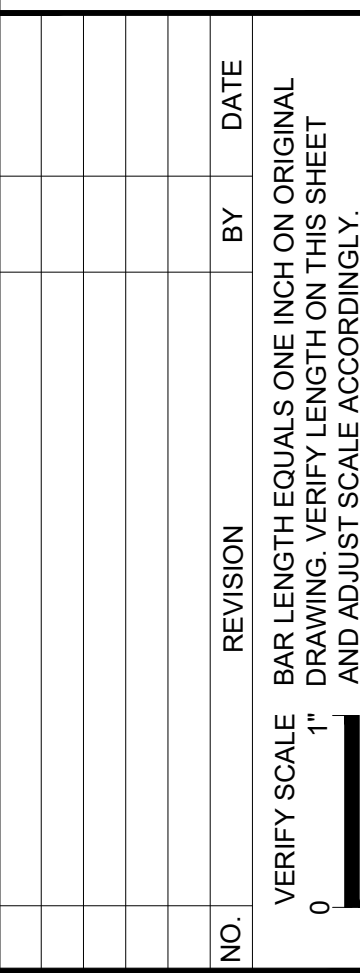
**CAUTION
GAS IN AREA**

!!!CAUTION!!!

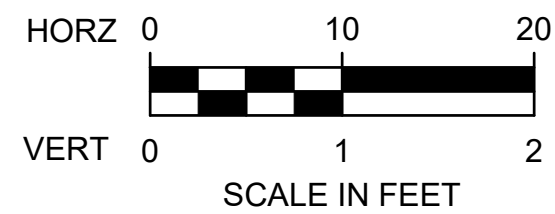
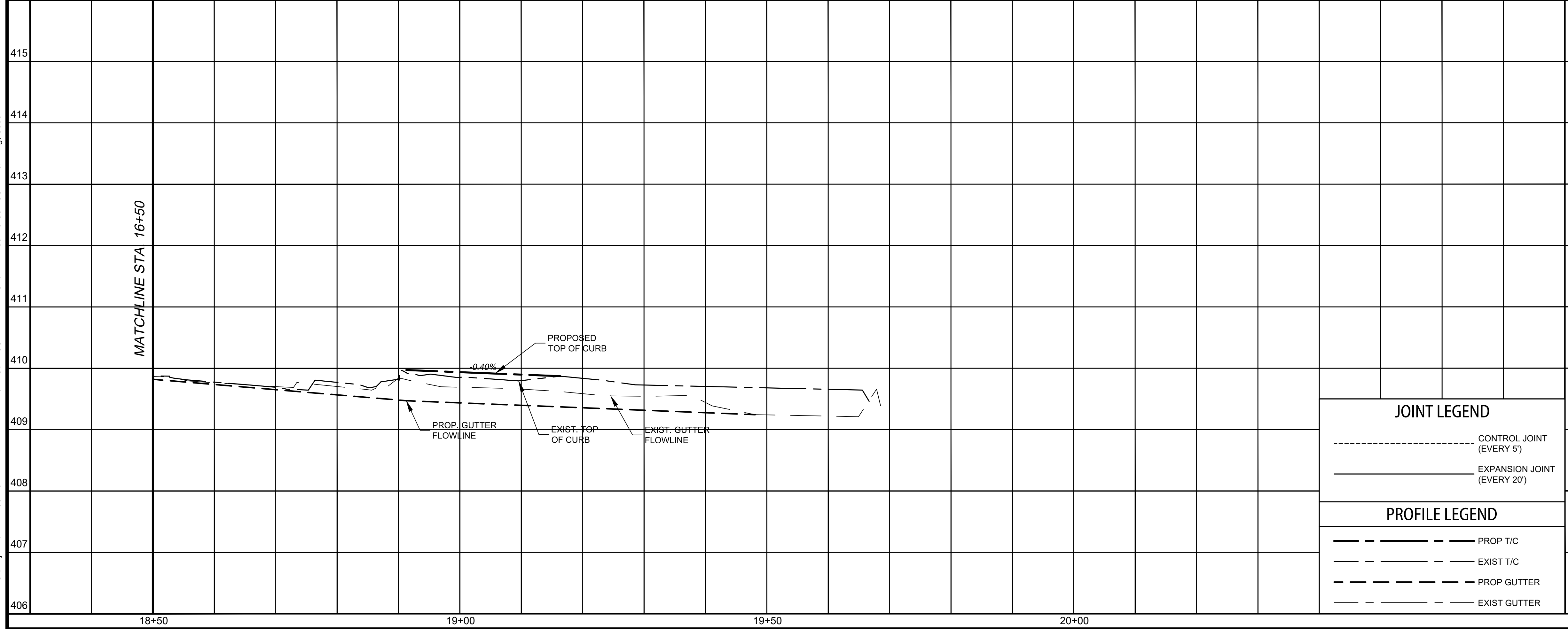
EXISTING OVERHEAD UTILITIES IN VICINITY. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR ELECTRIC FACILITIES.

!!!WARNING!!!

THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION AND AVOIDING ALL EXISTING UTILITIES BY CALLING THE ONE CALL LOCATOR SERVICE AT (800)344-8377 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

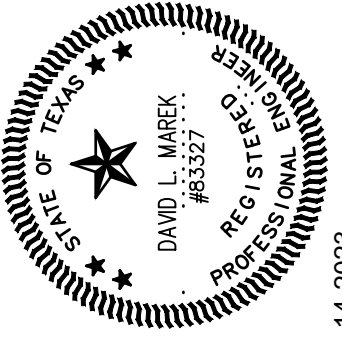
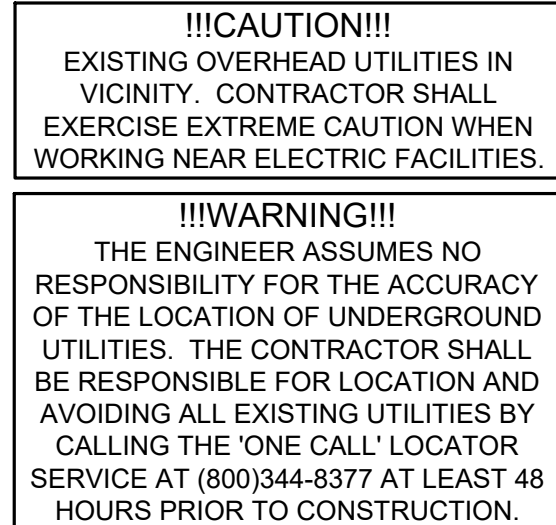


SHEET
C502



- ① REINFORCED CONCRETE STANDARD CURB & GUTTER PER C.O.W. STANDARDS
- ⑪ REINFORCED CONCRETE SIDEWALK. DOWEL INTO EXISTING SIDEWALK AND CURB
- ⑤⑤ CRACKSEAL NEW ASPHALT EDGES WITH CRAFCO POLYFLEX TYPE 3 OR APPROVED EQUAL
- ⑦② 2" HMAC TYPE 'C' & 2000 PSI CONCRETE BASE PER C.O.W. DETAIL ST-20
- ⑦③ VARIABLE THICKNESS HMAC OVERLAY. TXDOT ITEM 340, TYPE 'C'. INCLUDING TRAIL, HOT APPLIED
- ⑨⑧ INSTALL NEW PLE & FOUNDATION PER C.O.W. DETAIL T-6. REATTACH RETAINED SIGNAGE. IF DAMAGED, CONTRACTOR TO REPLACE SIGN AT NO ADDITIONAL COST TO OWNER.

11 CONTRACTOR TO CONTACT OWNER A MINIMUM OF 48 HOURS PRIOR TO DEMOLITION ACTIVITY OCCURRING. ANY DAMAGE TO SPRINKLER SYSTEM WILL BE REPAIRED TO EXISTING OR BETTER CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.

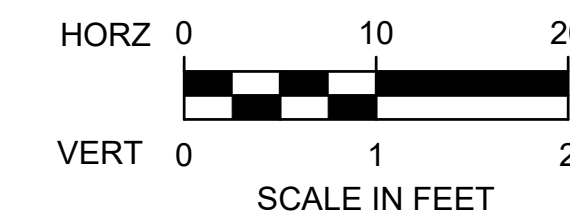
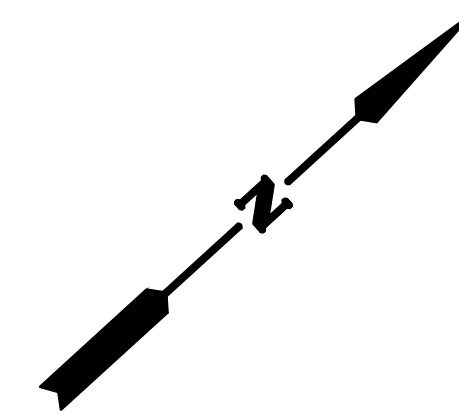
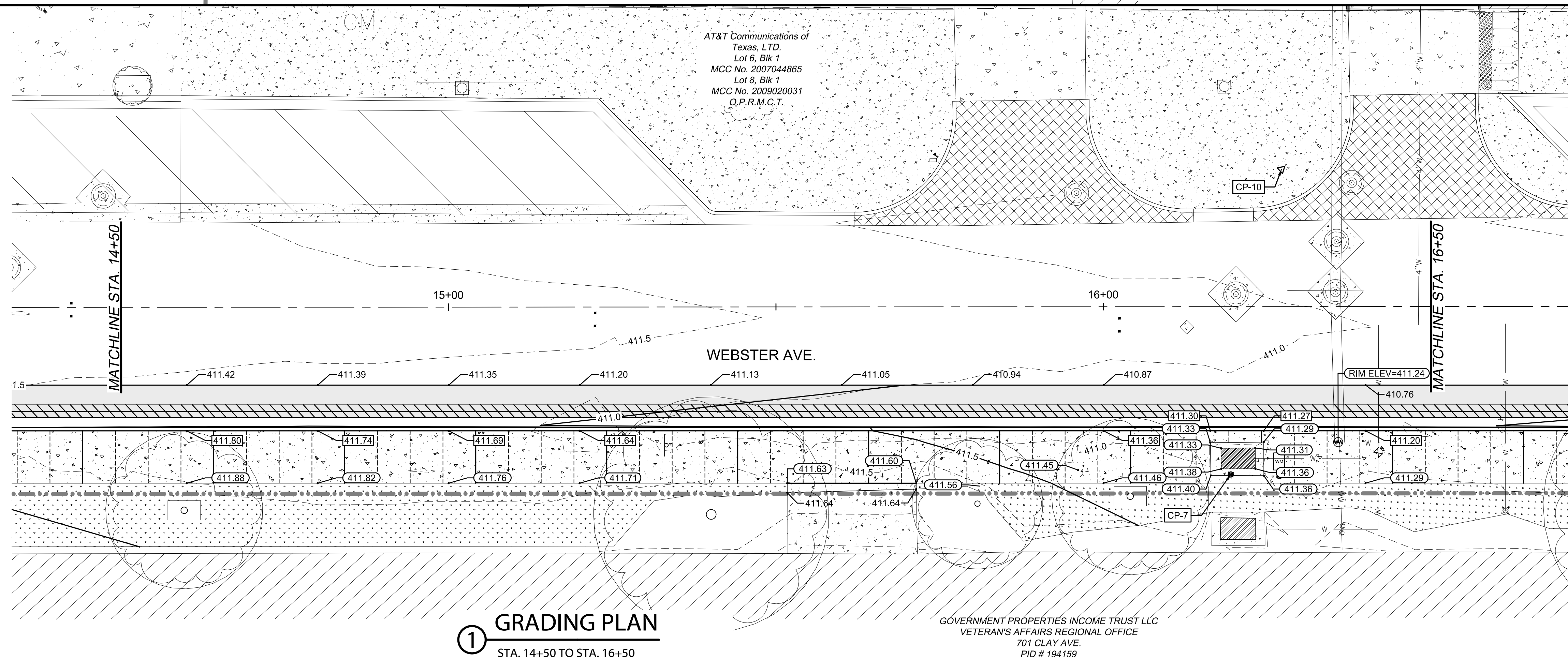
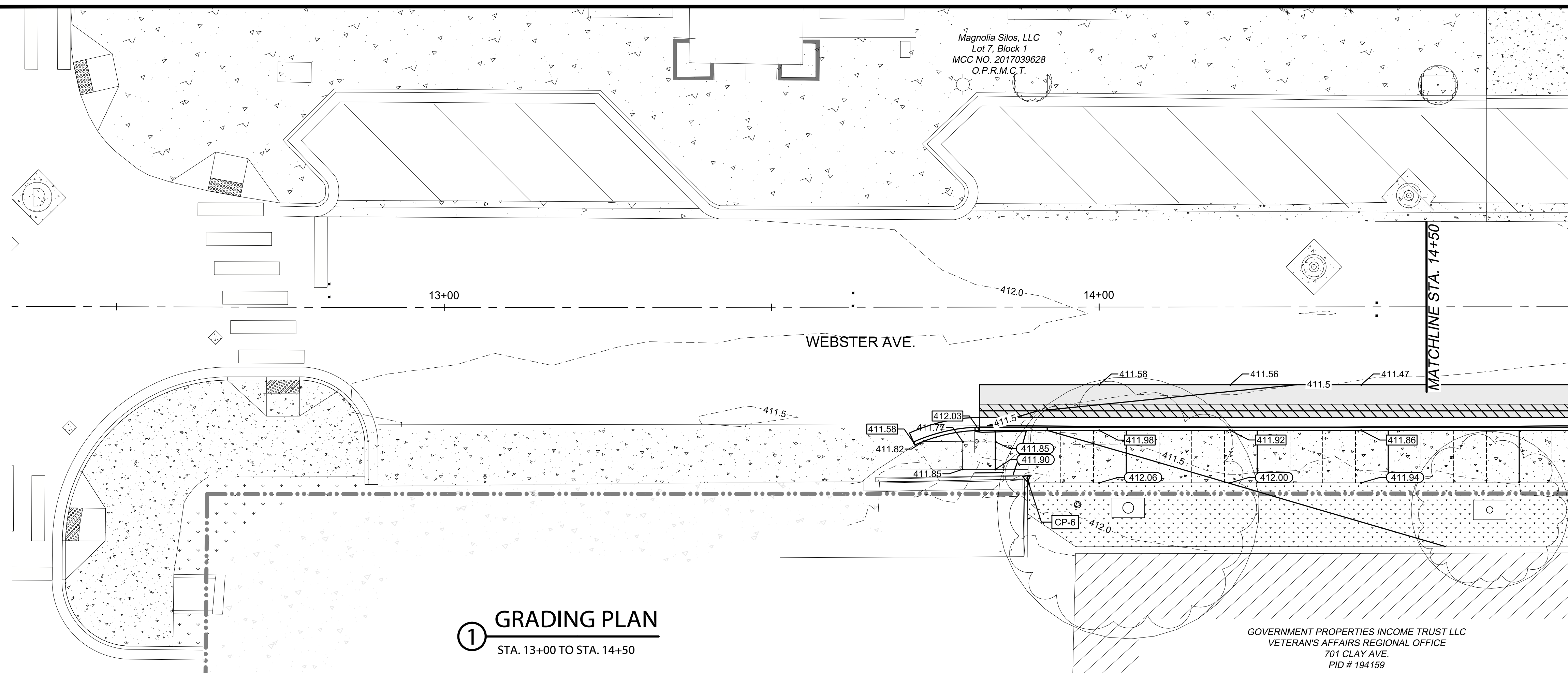


NO.	REVISION	BY	DATE
	VERIFY SCALE		
0	1"		

CITY OF WACO
WEBSTER AVE EAST CURBLINE IMPROVEMENTS
STREET SCAPING IMPROVEMENTS
STA. 18+50 TO END

DESIGN: DLM
DRAWN: ECM
REVIEW: DLM
CP&Y: CWAC2200983
CLIENT:

SHEET
C503



GRADING CALLOUTS

- | | |
|--------|-----------------------|
| ● 0.00 | SPOT ELEVATION |
| ● 0.00 | TOP OF CURB ELEVATION |
| ● 0.00 | EXISTING ELEVATION |

LEGEND

- EXISTING CONTOURS
- == PROPOSED CONTOURS



!!!CAUTION!!!
EXISTING OVERHEAD UTILITIES IN VICINITY. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR ELECTRIC FACILITIES

!!!WARNING!!!
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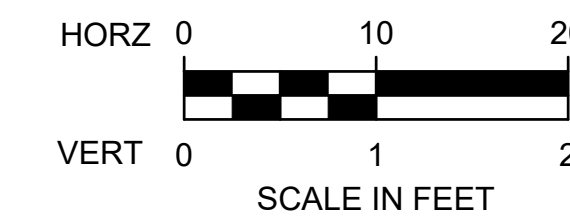
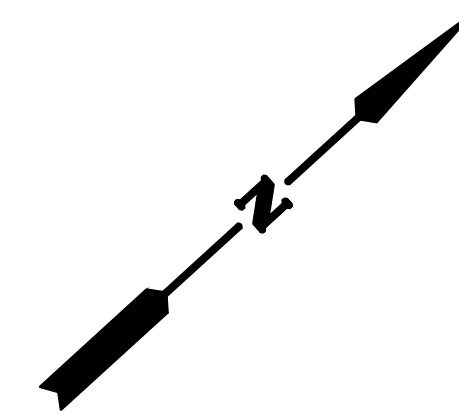
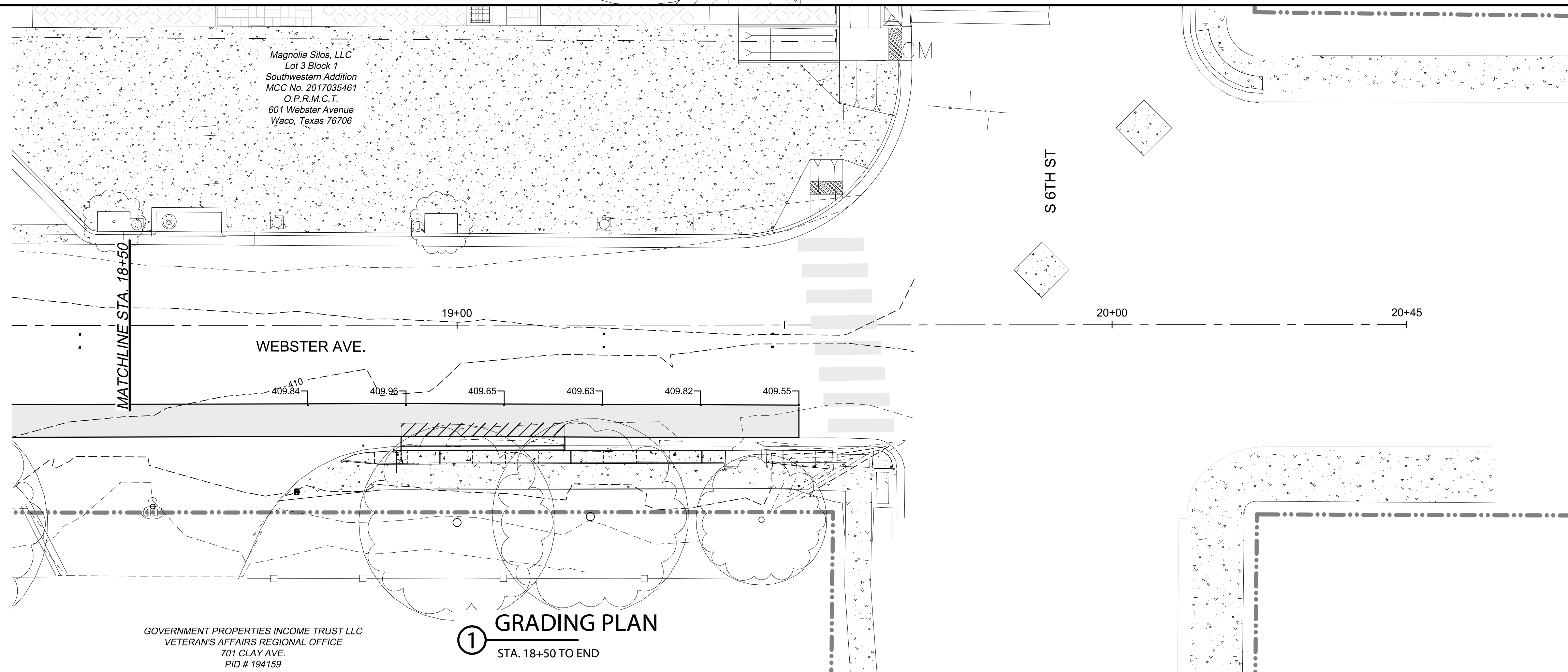
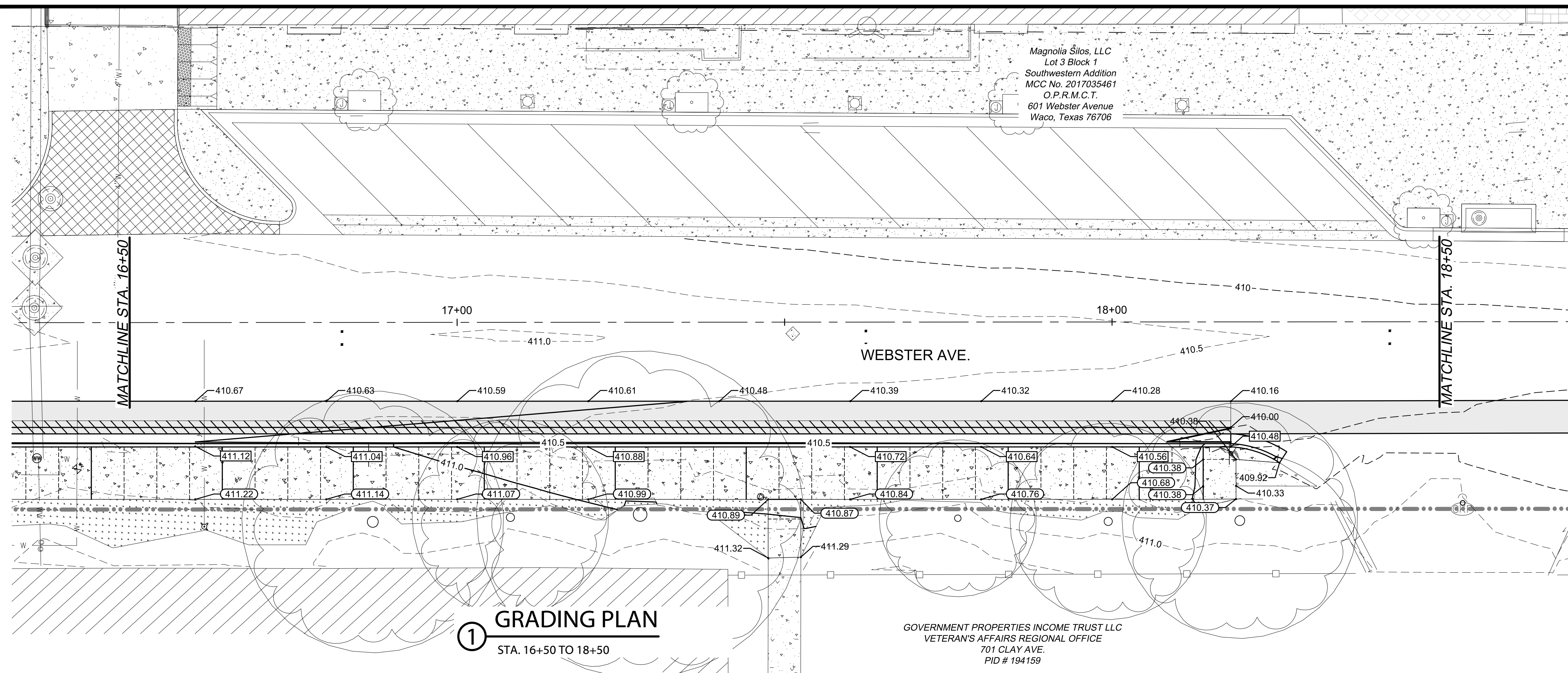


NO.	VERIFY SCALE	REVISION	BY	DATE
0	1" = 10'			

CITY OF WACO
WEBSTER AVE EAST CURBLINE IMPROVEMENTS
GRADING PLAN
STA. 13+00 TO STA. 16+50

DESIGN: DLM
DRAWN: ECM
REVIEW: DLM
CP&Y: CWAC2200983
CLIENT:

SHEET
C504



GRADING CALLOUTS

- | | | |
|---|------|-----------------------|
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|  | 0.00 | TOP OF CURB ELEVATION |
|  | 0.00 | EXISTING ELEVATION |

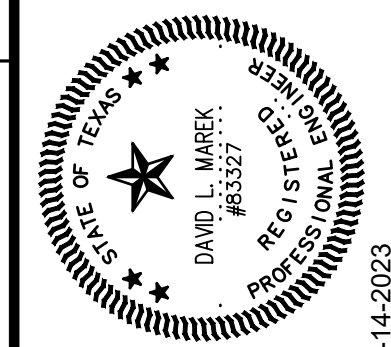
LEGEND

- EXISTING CONTOURS
 PROPOSED CONTOURS



!!!CAUTION!!!
EXISTING OVERHEAD UTILITIES IN VICINITY. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR ELECTRIC FACILITIES.

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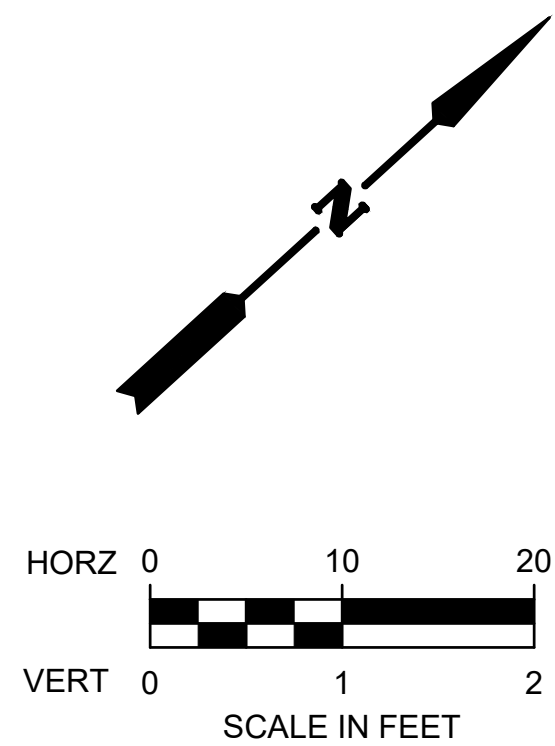
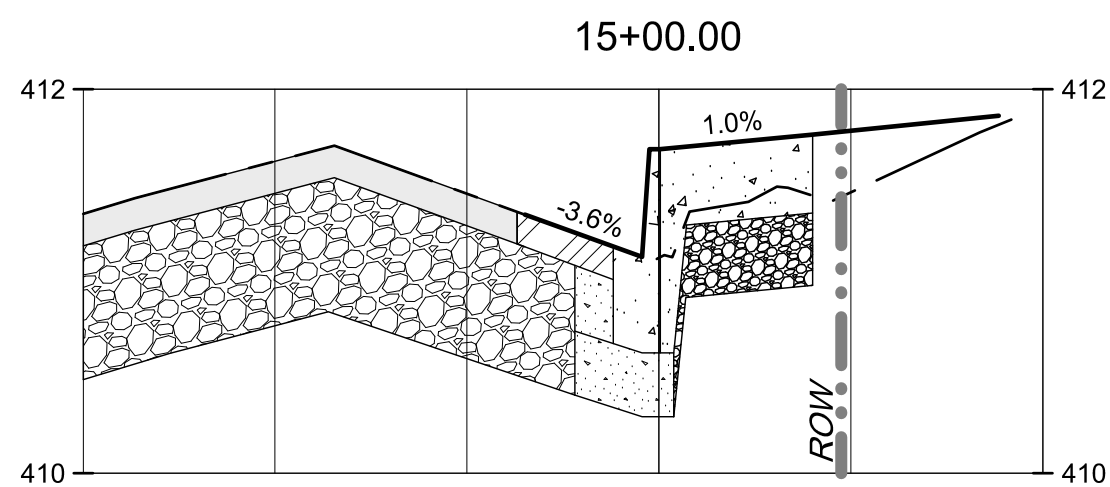
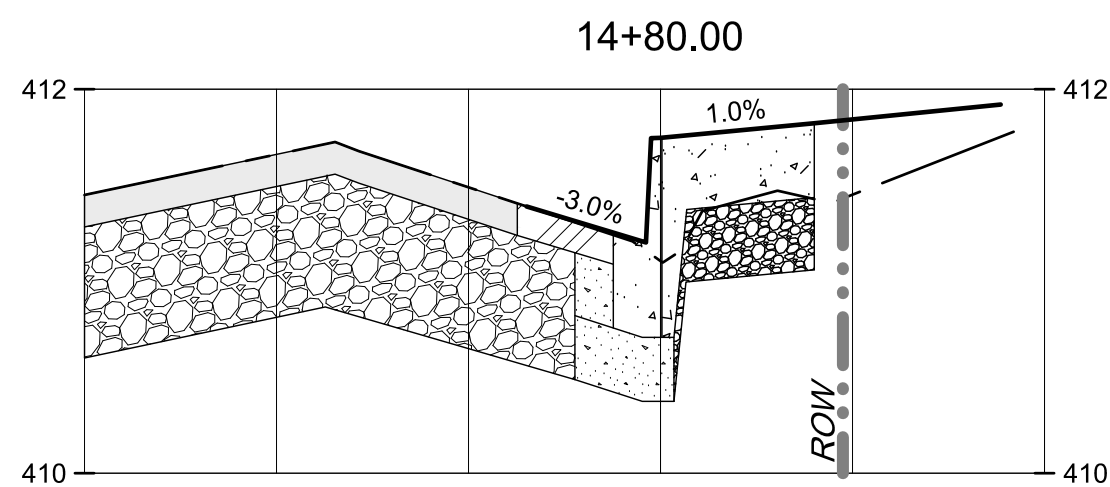
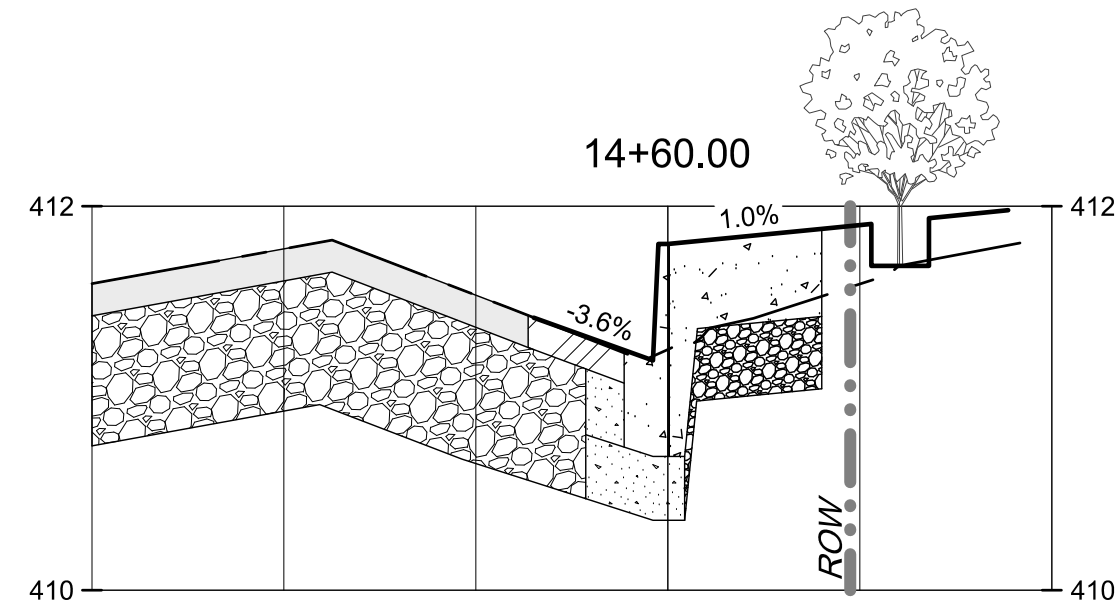
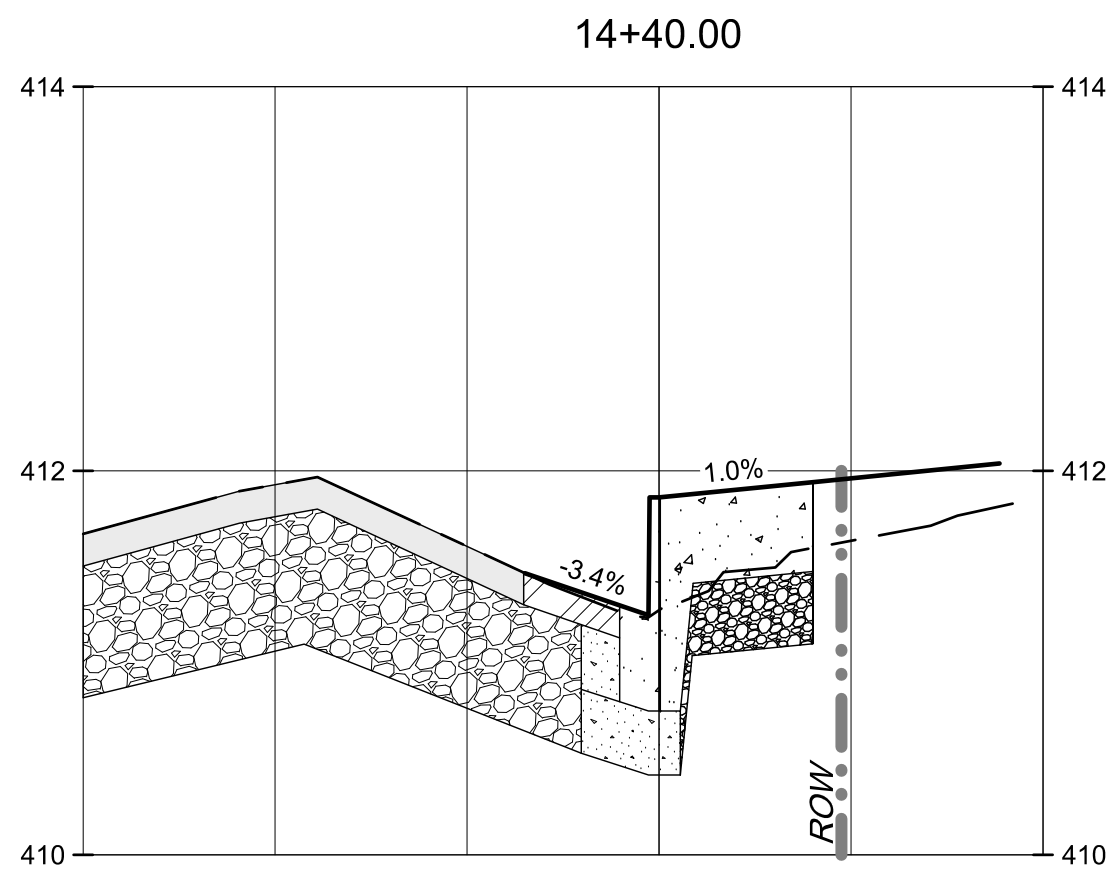
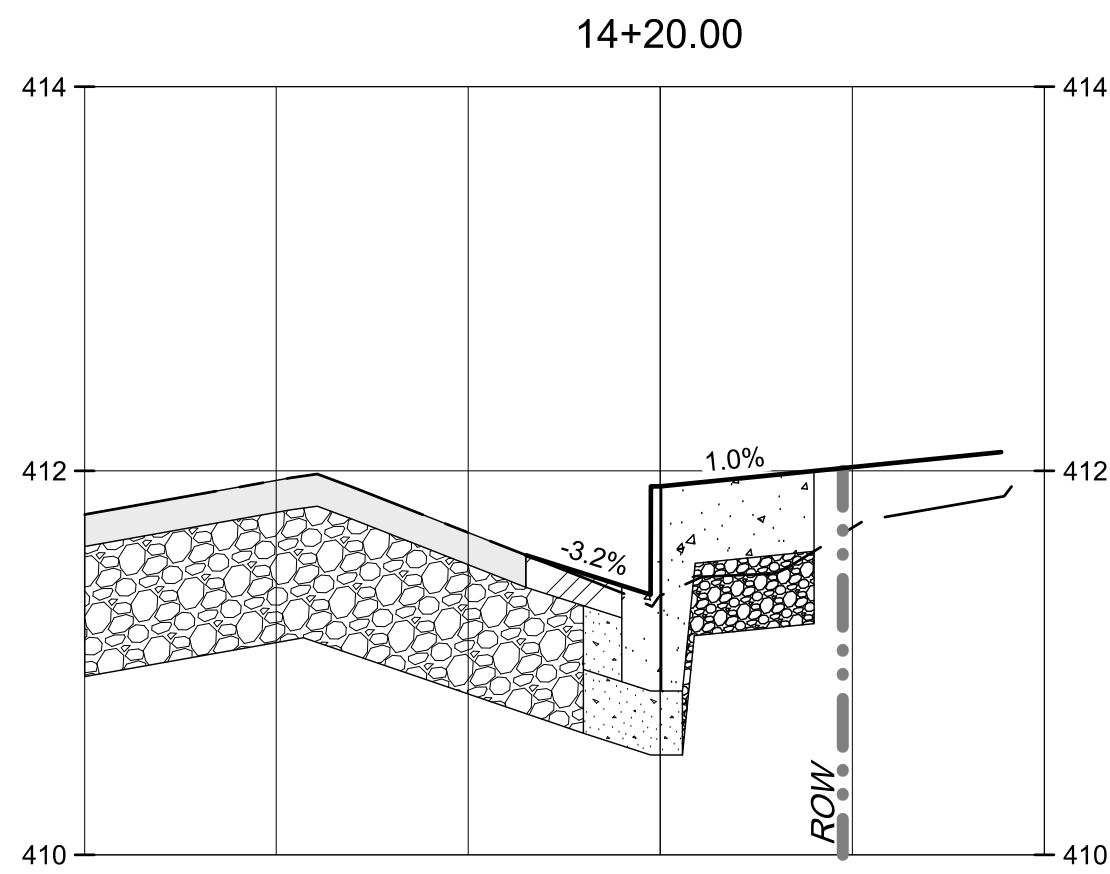
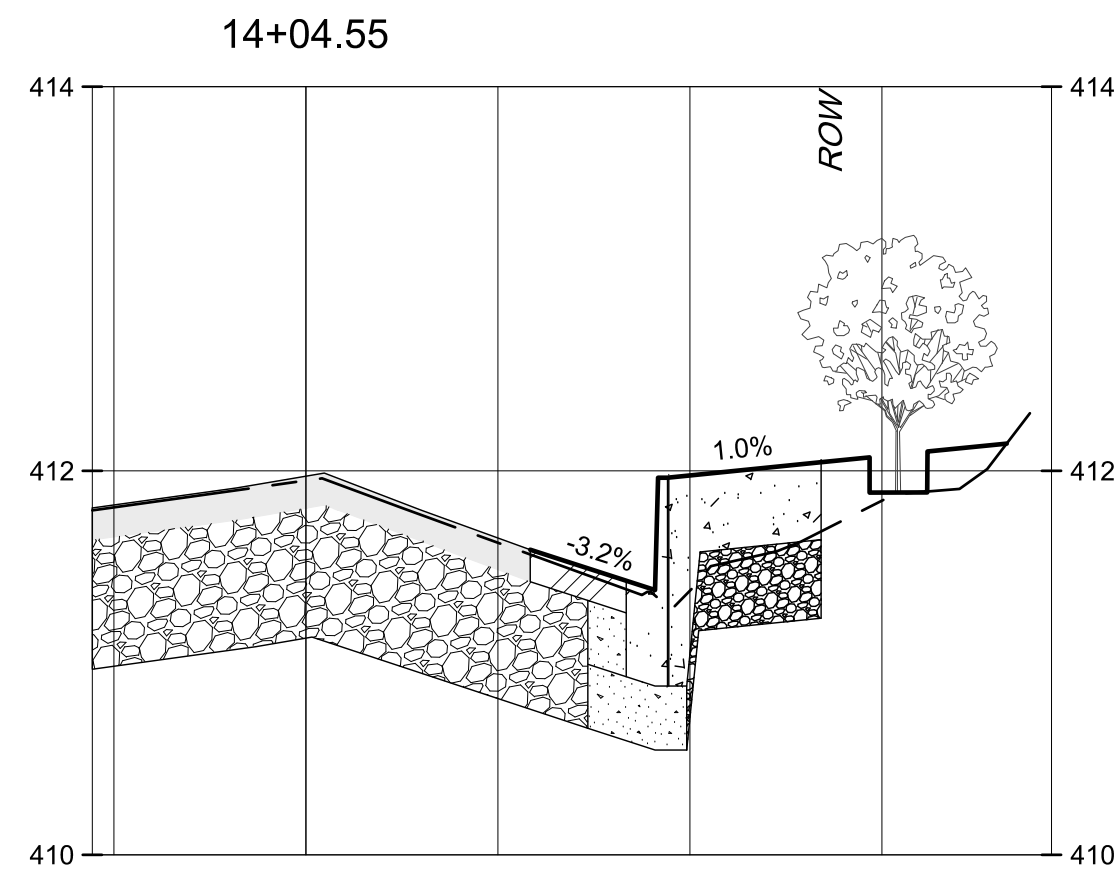
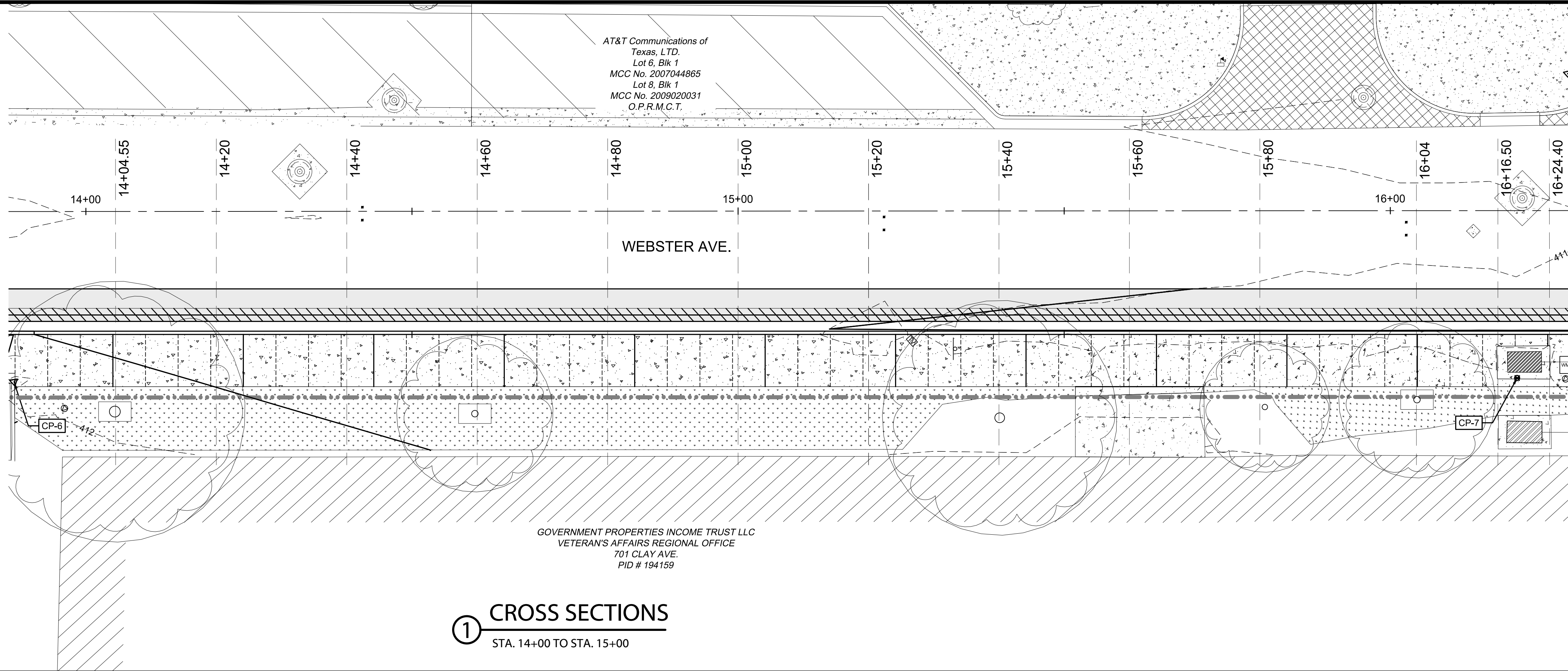
NO.	REVISION	BY	DATE
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1	DRAWING		DRAWING VERTICAL LENGTH ON THIS SHEET

CITY OF WACO
WEBSTER AVE EAST CURBLINE IMPROVEMENTS

GRADING PLAN
STA. 16+50 TO END

DESIGN: DLM
DRAWN: ECM
REVIEW: DLM
CP&Y: CWAC2200983
CLIENT:

SHEET
C505



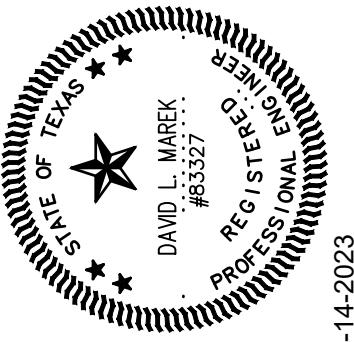
LEGEND

- EXISTING CONTOURS
--- PROPOSED CONTOURS
--- EXISTING GRADE
--- PROPOSED GRADE
- EXISTING HMAC PAVEMENT
EXISTING PUG BASE
PROPOSED HMAC PAVEMENT
PROPOSED FLEXIBLE BASE
PROPOSED REINFORCED CONCRETE PAVEMENT
PROPOSED CEMENT STABILIZED BASE



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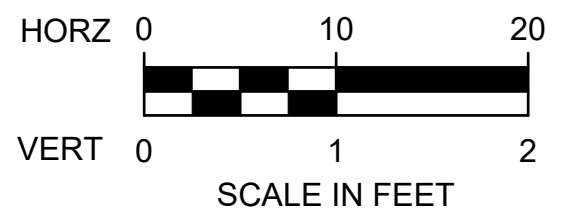
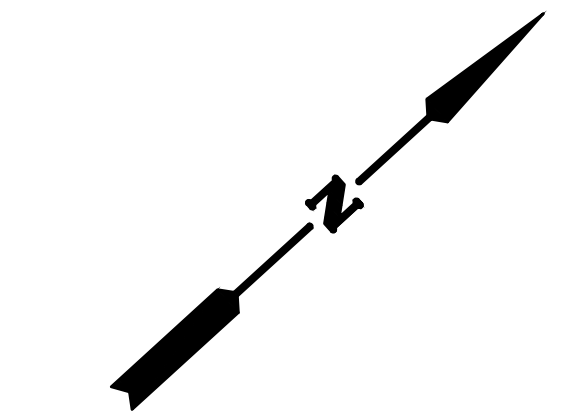
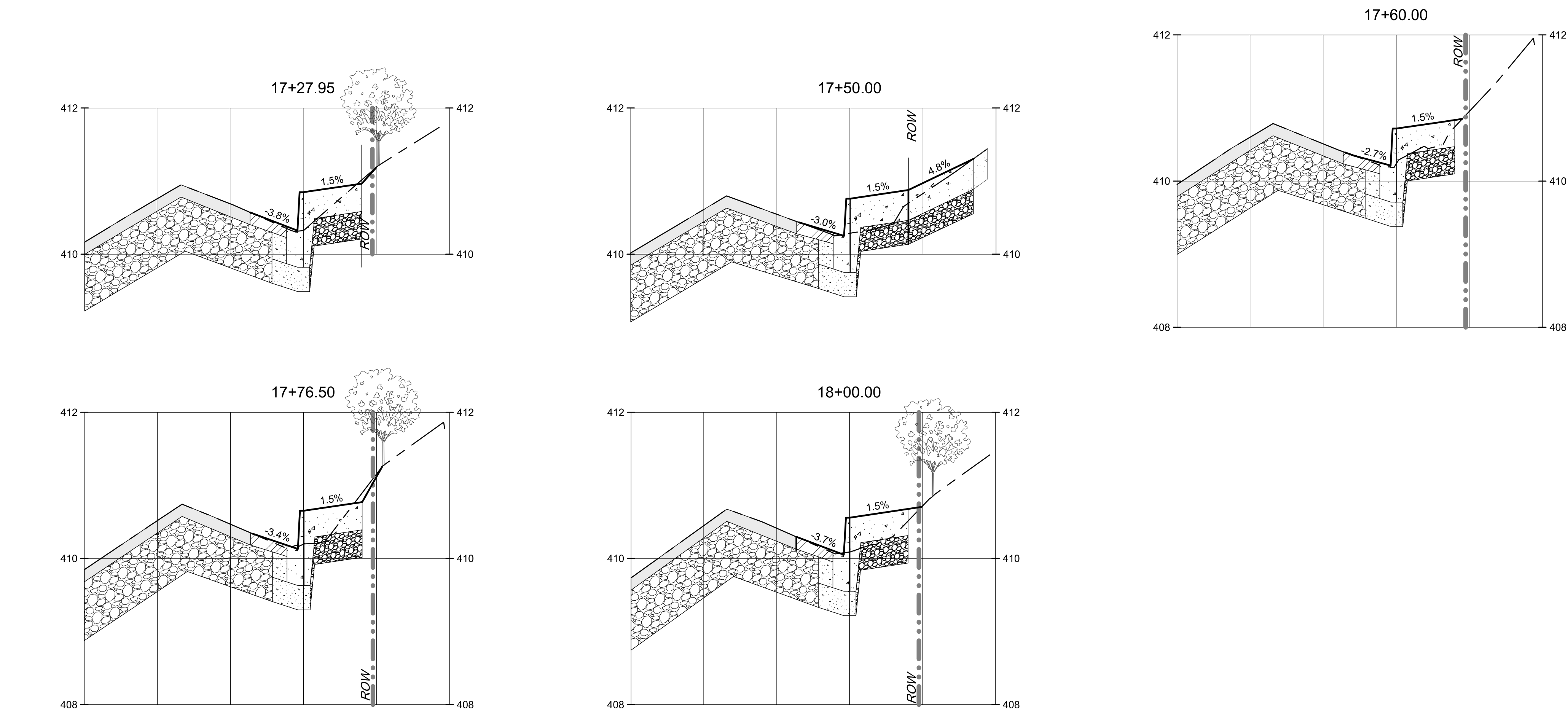
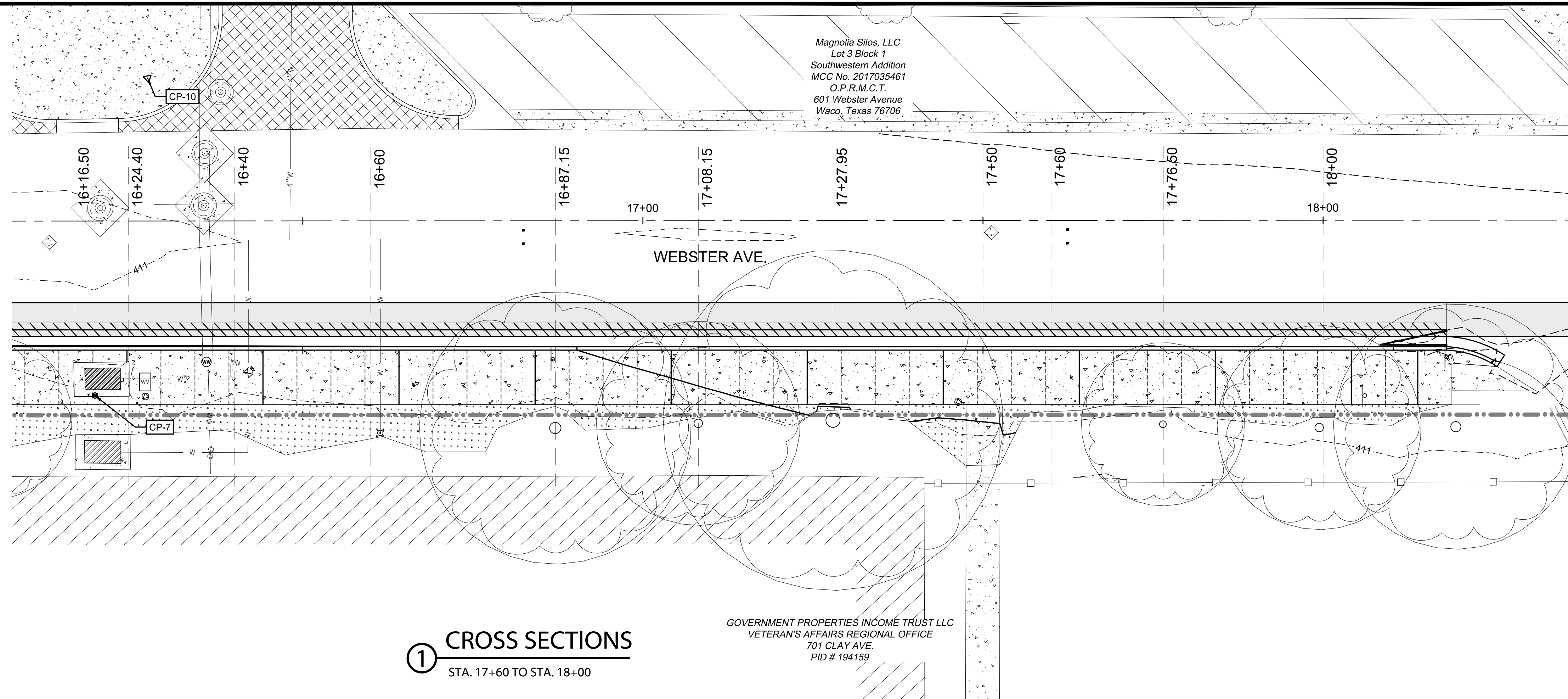


NO.	REVISION	BY	DATE
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	DRAWING. VERIFY LENGTH ON THIS SHEET		
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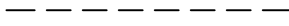
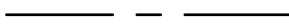
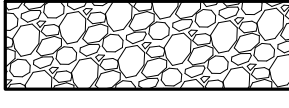
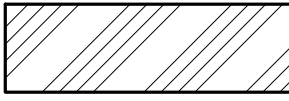
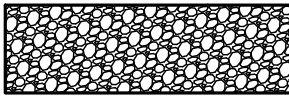
CITY OF WACO
WEBSTER AVE EAST CURBLINE IMPROVEMENTS
CROSS SECTIONS
STA. 14+00 TO STA. 15+00

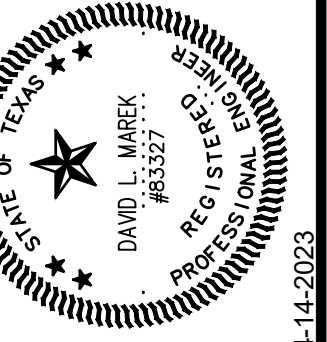
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DRAWN: ECM
REVIEW: DLM
CP&Y: CWAC2200983
CLIENT:

SHEET
C550



LEGEND

- | | |
|---|---------------------------------------|
|  | EXISTING CONTOURS |
|  | PROPOSED CONTOURS |
|  | EXISTING GRADE |
|  | PROPOSED GRADE |
|  | EXISTING HMAC PAVEMENT |
|  | EXISTING PUG BASE |
|  | PROPOSED HMAC PAVEMENT |
|  | PROPOSED FLEXIBLE BASE |
|  | PROPOSED REINFORCED CONCRETE PAVEMENT |
|  | PROPOSED CEMENT STABILIZED BASE |



NO.	REVISION	BY	DATE
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WEBSTER AVE EAST CURBLINE IMPROVEMENTS

CROSS SECTIONS
STA. 17+27.95 TO STA. 18+00

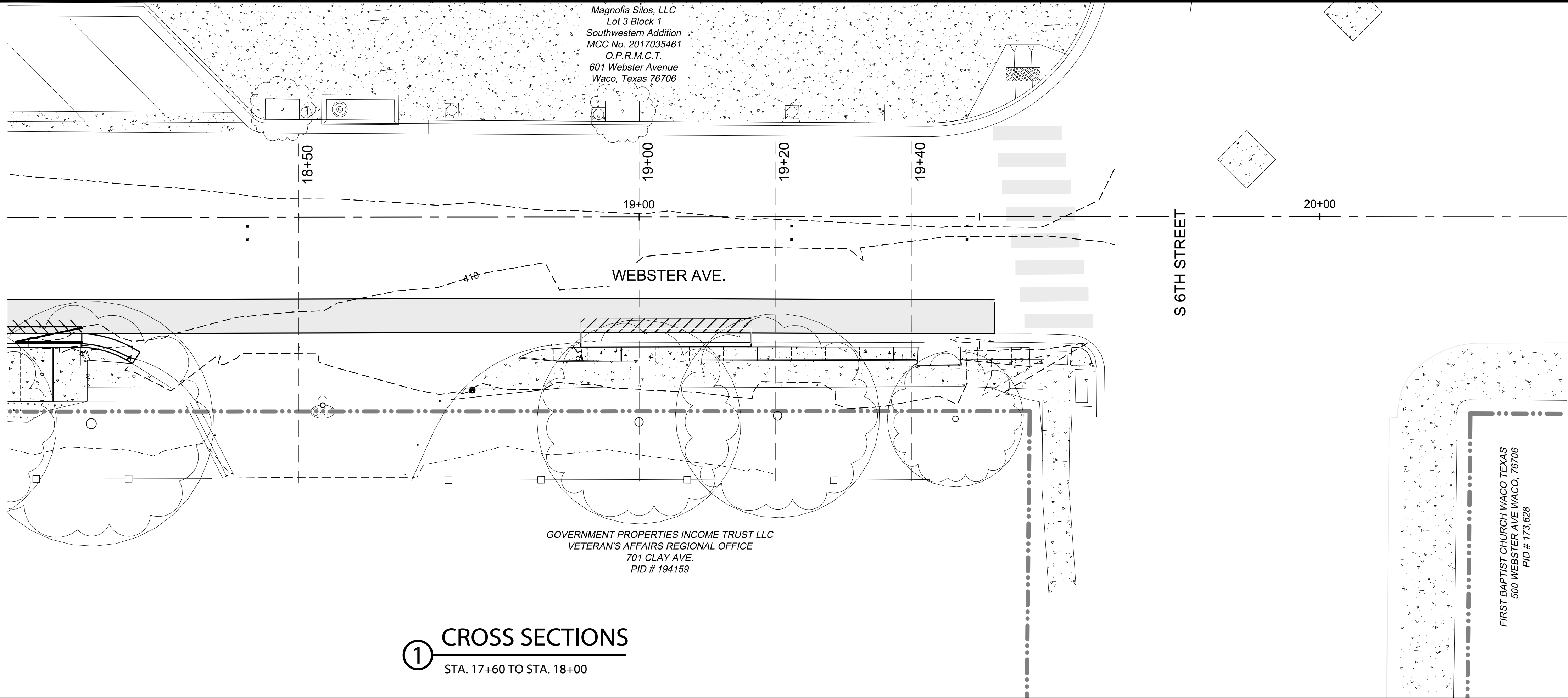
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WN: ECM
IEW: DLM
Y: CWAC2200983
ENT:

SHEET
C553

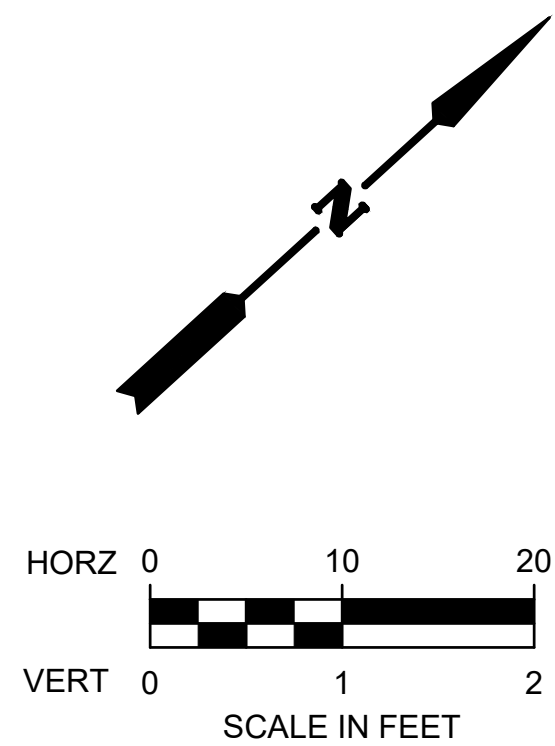
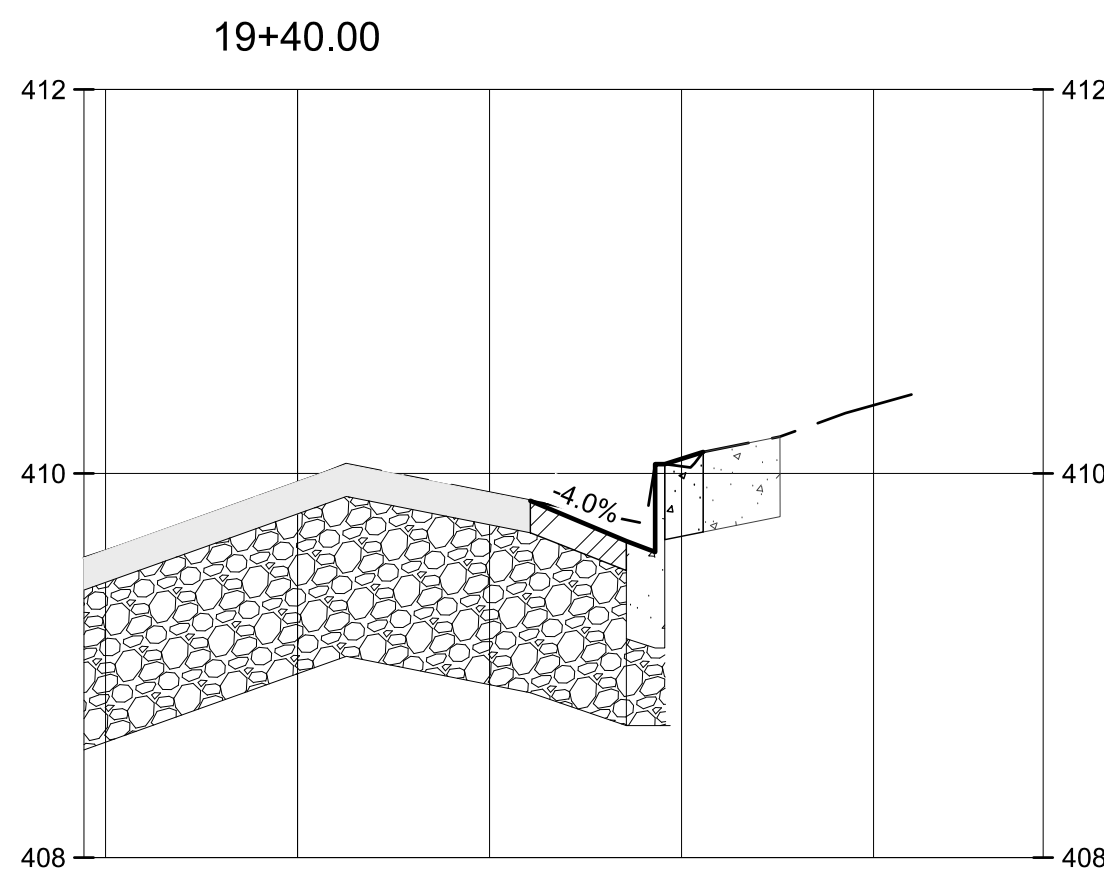
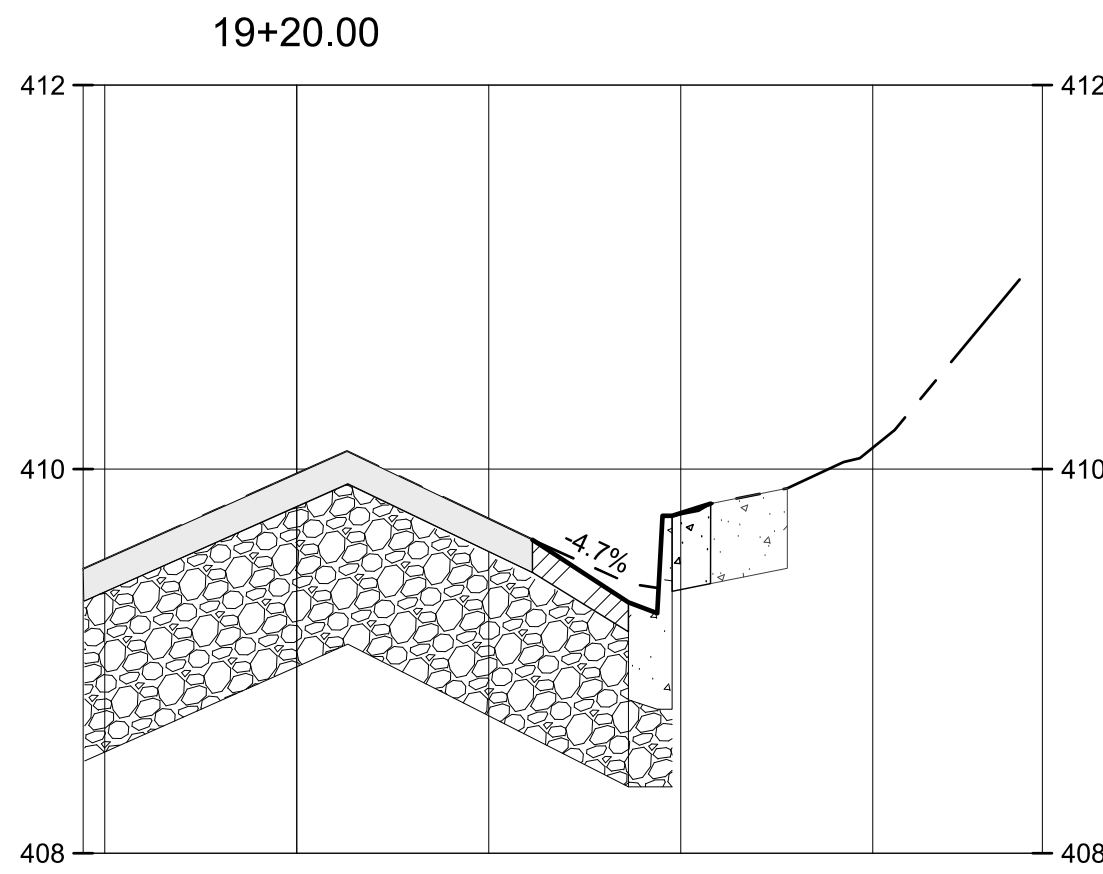
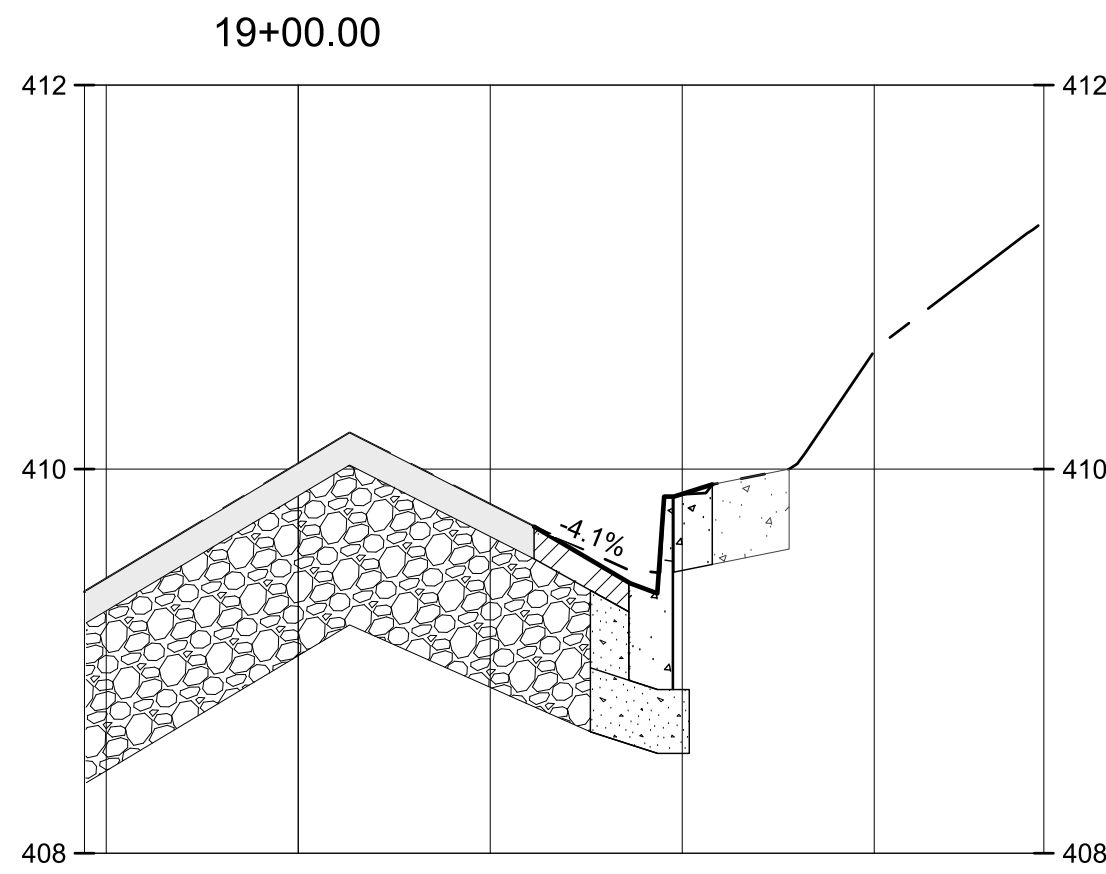
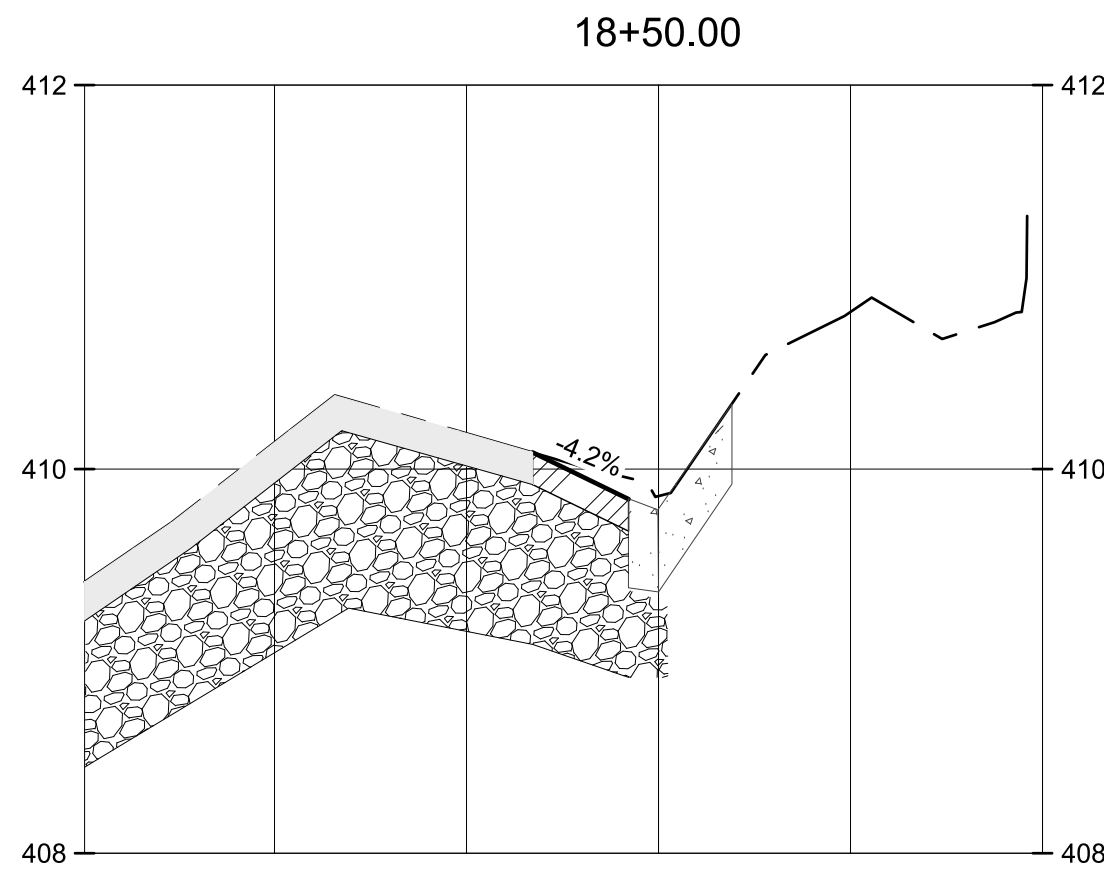


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SERVICE AT (800)344-8377 AT LEAST 48
HOURS PRIOR TO CONSTRUCTION.



① CROSS SECTIONS
STA. 17+60 TO STA. 18+00



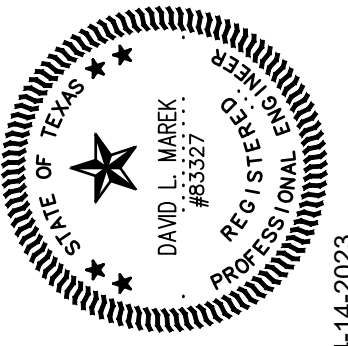
LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING GRADE
- PROPOSED GRADE
- EXISTING HMAC PAVEMENT
- EXISTING PUG BASE
- PROPOSED HMAC PAVEMENT
- PROPOSED FLEXIBLE BASE
- PROPOSED REINFORCED CONCRETE PAVEMENT
- PROPOSED CEMENT STABILIZED BASE



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NO.	REVISION	BY	DATE

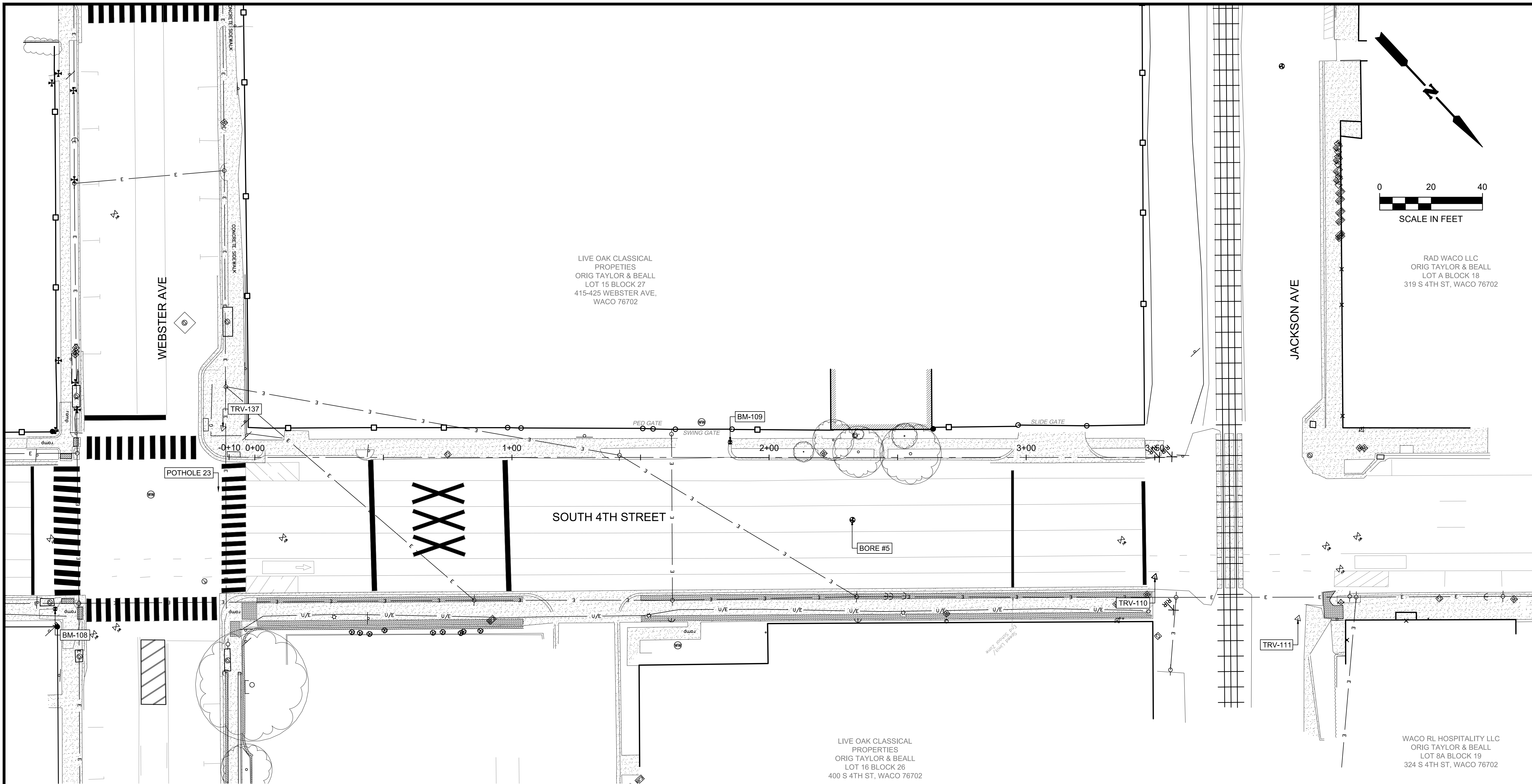
VERIFY SCALE BAR LENGTH EQUALS ONE INCH ON ORIGINAL DRAWING. VERIFY LENGTH ON THIS SHEET 0 1" AND ADJUST SCALE ACCORDINGLY.

CITY OF WACO
WEBSTER AVE EAST CURBLINE IMPROVEMENTS
CROSS SECTIONS
STA. 18+50 TO STA. 19+40

DESIGN: DLM
DRAWN: ECM
REVIEW: DLM
CP&Y: CWAC2200983
CLIENT:

SHEET
C554

4TH STREET PEDESTRIAN IMPROVEMENTS

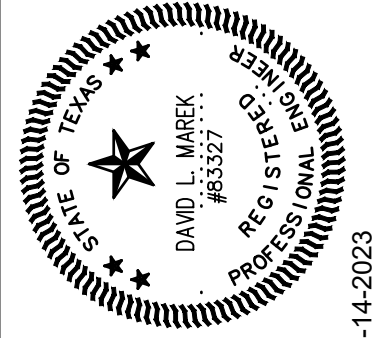


CITY OF WACO
4TH STREET PEDESTRIAN IMPROVEMENTS

EXISTING SURVEY

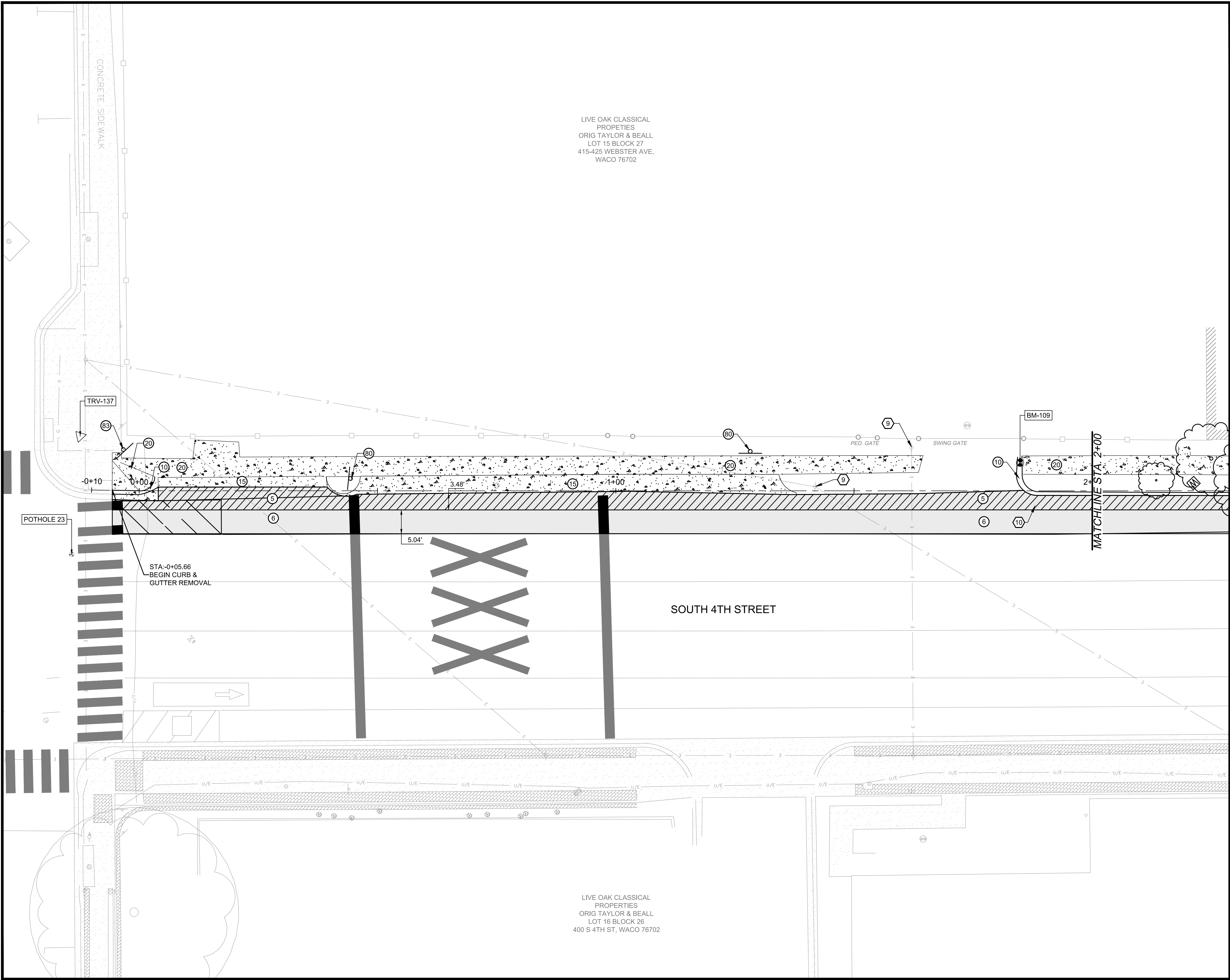
DESIGN: DLM
DRAWN: ECM
REVIEW: DLM
CP&Y: CWAC2300244
CLIENT:

SHEET
C601



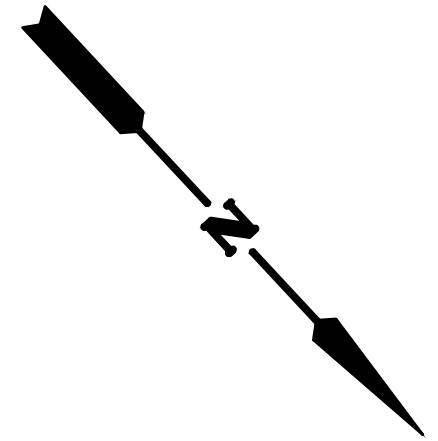
NO.	REVISION	BY	DATE
0	VERIFY SCALE		
1	BAR LENGTH EQUALS ONE INCH ON ORIGINAL DRAWING. VERIFY LENGTH ON THIS SHEET AND ADJUST SCALE ACCORDINGLY.		





LIVE OAK CLASSICAL
PROPERTIES
ORIG TAYLOR & BEALL
LOT 15 BLOCK 27
415-425 WEBSTER AVE,
WACO 76702

LIVE OAK CLASSICAL
PROPERTIES
ORIG TAYLOR & BEALL
LOT 16 BLOCK 26
400 S 4TH ST, WACO 76702



0 10 20
SCALE IN FEET

DEMOLITION CALLOUTS

- 5 HMAC & BASE (ALL DEPTHS) TO BE SAWCUT, REMOVED, & DISPOSED OFF-SITE. CONTRACTOR TO PROVIDE NECESSARY EXCAVATION AND/OR FILL TO OBTAIN DESIGN SUBGRADE. COST TO BE SUBSIDIARY TO BID ITEM
- 6 HMAC TO BE MILLED (VARIABLE DEPTH)(SEE CROSS SECTIONS), CONTRACTOR TO DISPOSE OF MILLINGS IN OFF-SITE LOCATION
- 10 CONCRETE CURB OR CURB & GUTTER (ALL TYPES) TO BE SAWCUT, REMOVED & DISPOSED OFF-SITE. CONTRACTOR TO REMOVE HMAC & BASE NECESSARY FOR CURB & GUTTER CONSTRUCTION.
- 15 REINFORCED CONCRETE DRIVE APPROACH TO BE SAWCUT, REMOVED & DISPOSED OFF-SITE. CONTRACTOR TO PROVIDE NECESSARY EXCAVATION AND/OR PLACEMENT OF SELECT FILL TO OBTAIN DESIGN SUBGRADE. COST SHALL BE SUBSIDIARY TO REMOVAL BID ITEM.
- 20 REINFORCED CONCRETE SIDEWALK TO BE SAWCUT, REMOVED & DISPOSED OFF-SITE. CONTRACTOR TO PROVIDE NECESSARY EXCAVATION AND/OR PLACEMENT OF SELECT FILL TO OBTAIN DESIGN SUBGRADE. COST SHALL BE SUBSIDIARY TO REMOVAL BID ITEM
- 60 EXISTING SIGN, POLE & FOUNDATION TO BE REMOVED. RETAIN SIGN FOR REINSTALLATION. POLE & FOUNDATION TO BE DISPOSED OFFSITE IN APPROVED LOCATION. INSTALL SELECT FILL IN EXCAVATED VOID. COST OF FILL INSTALLATION TO BE INCIDENTAL TO ITEM OF WORK
- 83 EXISTING GAS MARKER TO BE REMOVED BY UTILITY PROVIDER

SPECIAL PROJECT NOTES

- 9 EXISTING POWER POLE TO REMAIN. CONTRACTOR TO NOTIFY POLE OWNER A MINIMUM OF 48 HOURS IN ADVANCE OF CONSTRUCTION
- 10 EXISTING CURB CONTAINS GUTTER PAN. CONTRACTOR TO ANTICIPATE THIS FACT IN REMOVAL OF CURB
- 11 CONTRACTOR TO CONTACT OWNER A MINIMUM OF 48 HOURS PRIOR TO DEMOLITION ACTIVITY OCCURRING. ANY DAMAGE TO SPRINKLER SYSTEM WILL BE REPAIRED TO EXISTING OR BETTER CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.

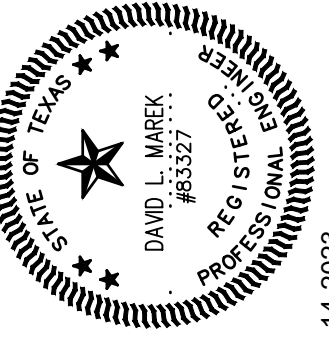


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David L. Masek
Professional Engineer
4-14-2023

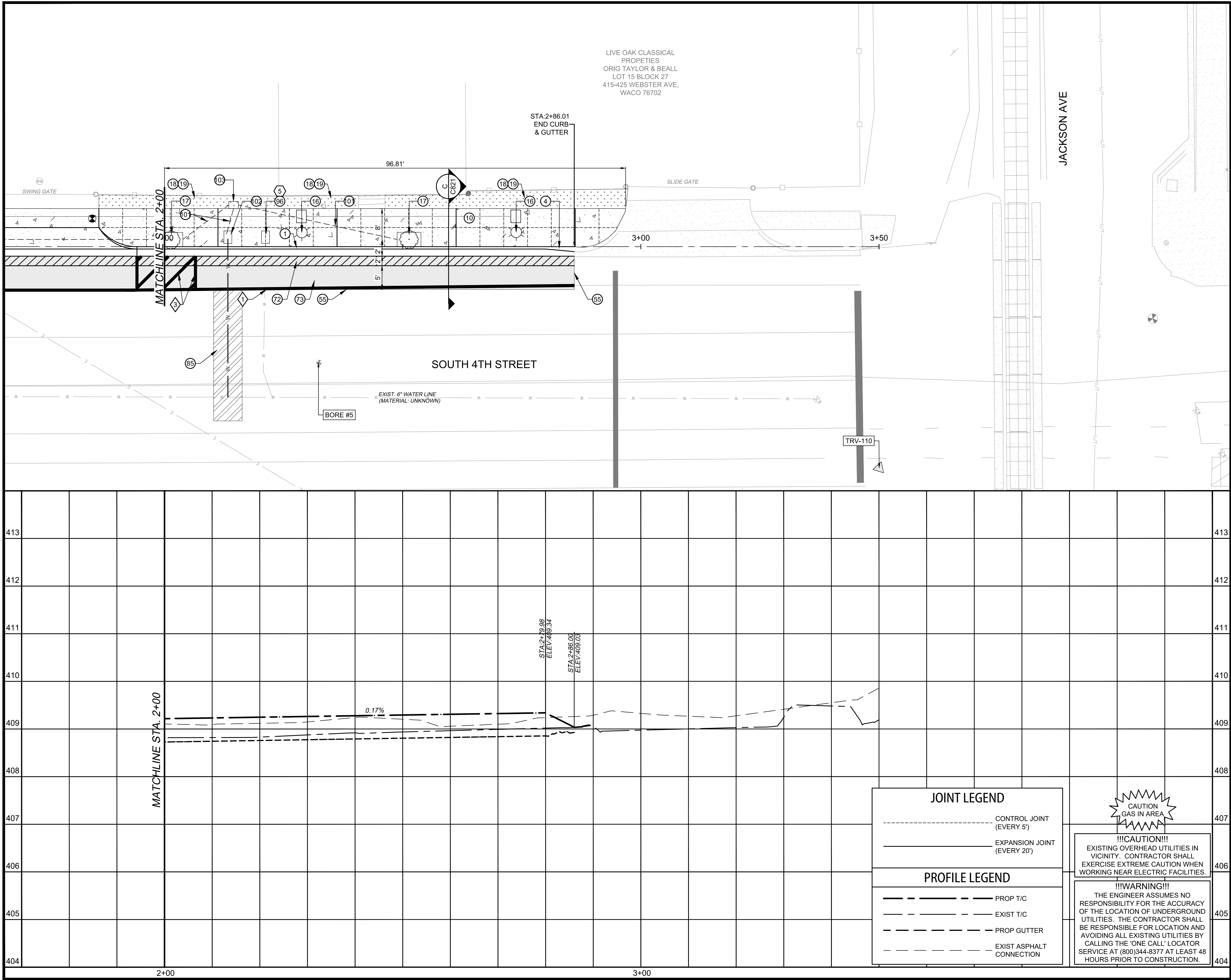


NO.	REVISION	BY	DATE

CITY OF WACO
4TH STREET PEDESTRIAN IMPROVEMENTS
DEMOLITION PLAN
STA. 0+00 TO STA. 2+00

DESIGN: DLM
DRAWN: ECM
REVIEW: DLM
CP&Y: CWAC2300244
CLIENT:

SHEET
C602



HORZ 0 10 20
VERT 0 1 2
SCALE IN FEET

SITE CALLOUTS

- ① REINFORCED CONCRETE STANDARD CURB & GUTTER PER C.O.W. STANDARDS
- ④ CURB TRANSITION
- ⑩ REINFORCED CONCRETE SIDEWALK PER C.O.W. STD DETAILS, INCLUDING VARIABLE HEIGHT CURB
MIN. CROSS SLOPE: 1%
MAX CROSS SLOPE: 2%
VERTICAL DIFFERENCE AT ALL THRESHOLDS TO BE 1/4" MAXIMUM
- ⑩ ANTIQUE STREET LIGHT. SEE ELECTRICAL PLANS
- ⑩ 5' X 3' TREE WELL W/ ROOT BARRIER PER C.O.W. G-3. INSTALL TREES FROM THE FOLLOWING APPROVED LIST:
 - CHINESE PISTACHE
 - ALLEE ELMS
 - SWEET GUMS
 - CHINKAPIN OAKSMIN TRUNK SIZE: 2 1/2"
INSTALL TWO OF ONE VARIETY & ONE OF THE REMAINING LIST. CITY OF WACO TO APPROVE SELECTION VARIETY AND QUANTITY. DWARF SPECIES MAY BE UTILIZED
- ⑩ SOLID BLOCK SOD. VARIETY TO MATCH EXISTING VARIETY. SCARIFY EXISTING GROUND PRIOR TO PLACEMENT. PROVIDE WATERING AS NEEDED TO ESTABLISH SOD AT NO ADDITIONAL COST TO OWNER
- ⑩ SELECT FILL TO WITHIN 8" OF FINAL GRADE. INSTALL 4" OF RECLAIMED OR IMPORTED TOPSOIL ON SELECT FILL
- ⑩ CRACKSEAL NEW ASPHALT EDGES WITH CRAFCO POLYFLEX TYPE 3 OR APPROVED EQUAL
- ⑩ 2" HMAC TYPE 'C' & 2000 PSI CONCRETE BASE PER C.O.W. DETAIL ST-20
- ⑩ VARIABLE THICKNESS HMAC OVERLAY, TxDOT ITEM 340, TYPE 'C', INCLUDING TRAIL, HOT APPLIED
- ⑩ CLASS 'A' SURFACE REPLACEMENT
- ⑩ INSTALL NEW WATER METER BOX, FLUSH WITH FINAL SIDEWALK GRADE & ELEVATION PER CITY OF WACO DETAIL W-17 OR W-18. RELOCATE EXISTING METER & CONNECT TO EXISTING SERVICE
- ⑩ 2-2" SCH-40 PVC IRRIGATION SLEEVE
- ⑩ 2" IRRIGATION SERVICE W/ 1-1/2" METER
- ⑩ IRRIGATION CONTROLLER INSTALLED IN ALL WEATHER ENCLOSURE

STRIPING CALLOUTS

- ⑩ REFL PAV MRK TY 1 (W) 4" (SLD) (100 MIL)
- ⑩ "NO PARKING" REFL PAV MRK TY 1 (W) 4" (SLD) (100 MIL)

SPECIAL PROJECT NOTES

- ⑩ CONTRACTOR TO NOTIFY PROPERTY OWNERS A MINIMUM OF 72 HOURS PRIOR TO INTERRUPTION OF WATER SERVICE. IF WORK IS TO OCCUR AFTER HOURS OR AT NIGHT, ANY ADDITIONAL COSTS SHALL BE INCIDENTAL TO ITEM OF WORK

JOINT LEGEND

- CONTROL JOINT (EVERY 5')
- EXPANSION JOINT (EVERY 20')

PROFILE LEGEND

- PROP T/C
- EXIST T/C
- PROP GUTTER
- EXIST ASPHALT CONNECTION

CAUTION
GAS IN AREA

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CITY OF WACO

4TH STREET PEDESTRIAN IMPROVEMENTS

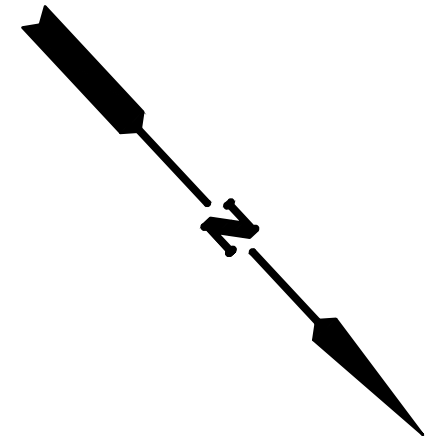
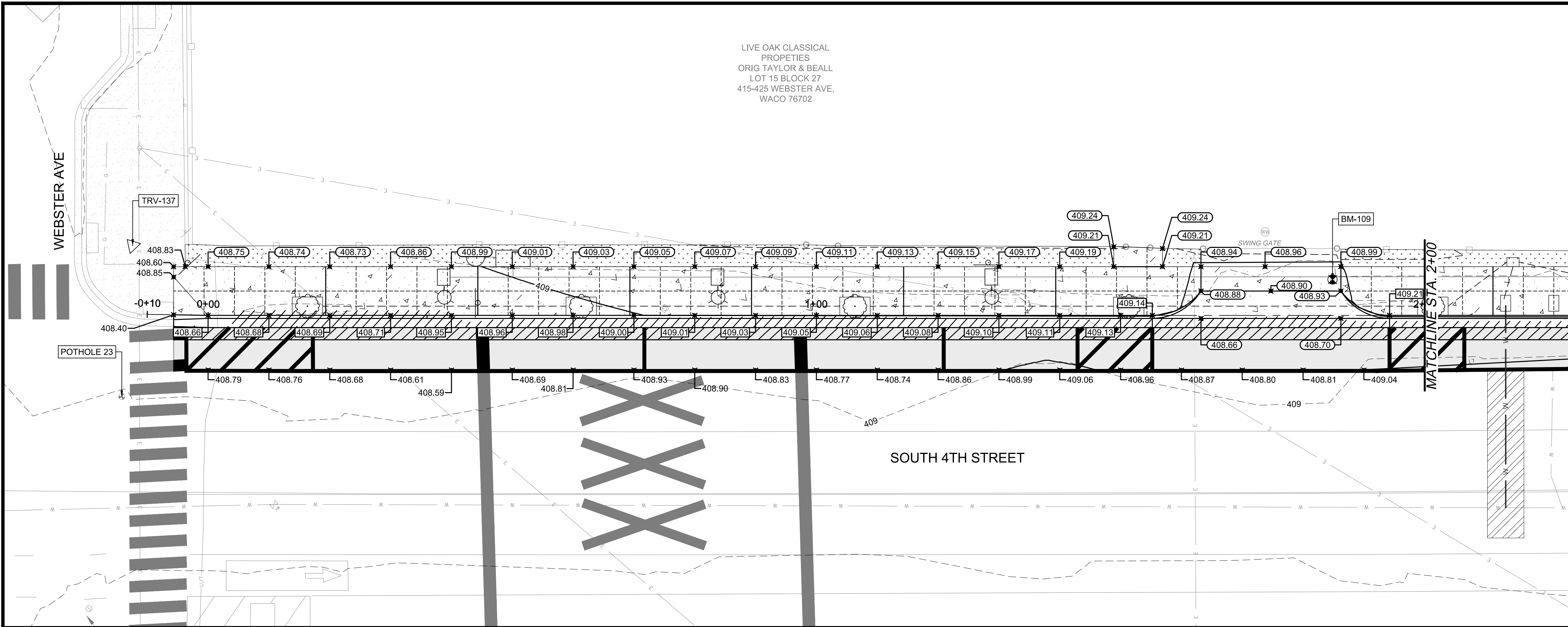
STREET SCAPING IMPROVEMENTS
STA. 2+00 TO END

DESIGN: DLM
DRAWN: ECM
REVIEW: DLM
CP&Y: CWAC2300244
CLIENT:

SHEET
C701

CP&Y
CP&Y, INC.
TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741

4-14-2023

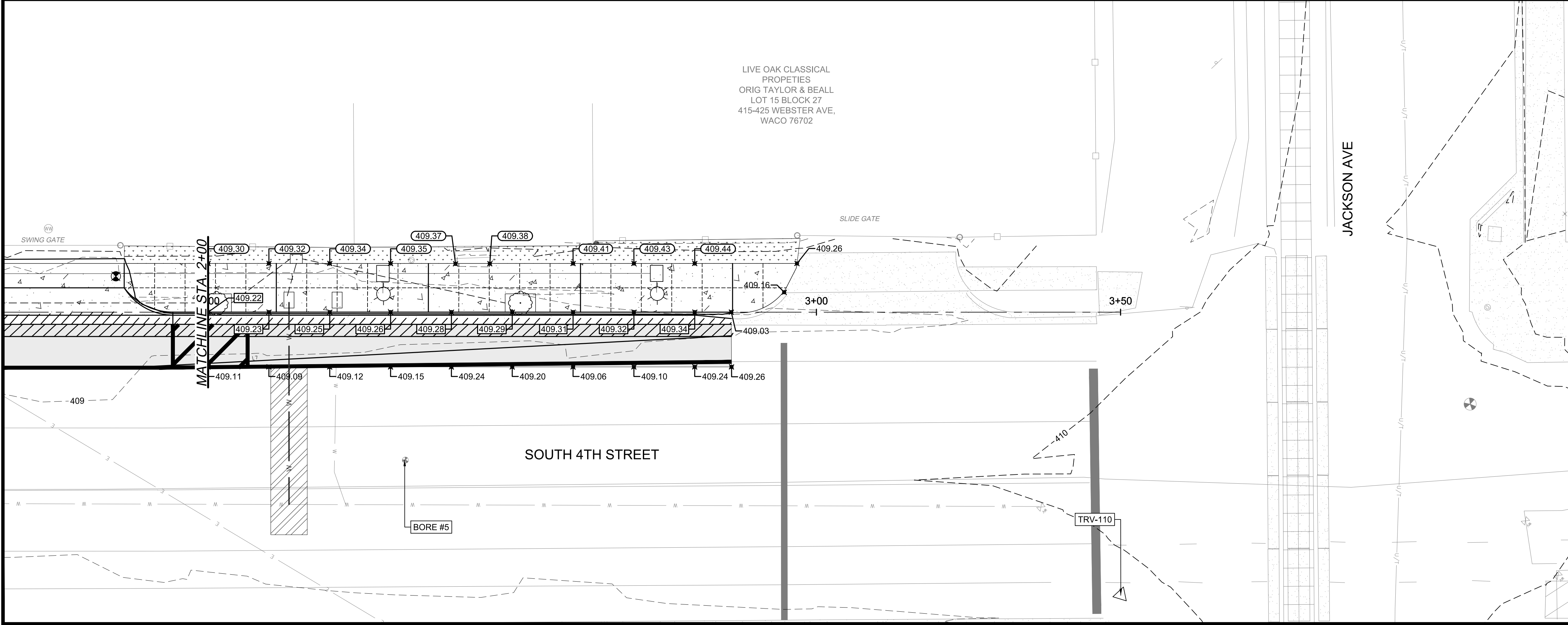


GRADING CALLOUTS

- 0.00 SPOT ELEVATION
0.00 TOP OF CURB ELEVATION
0.00 EXISTING ELEVATION

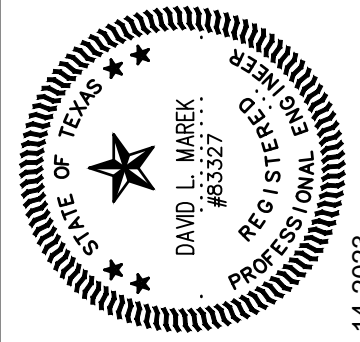
LEGEND

- EXISTING CONTOURS
--- PROPOSED CONTOURS



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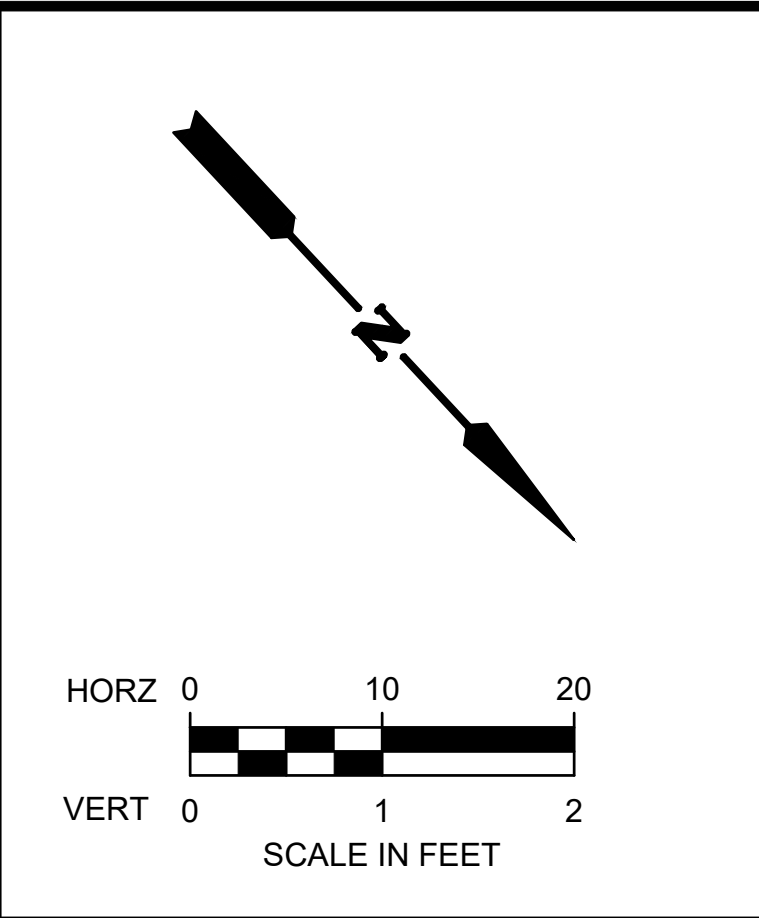
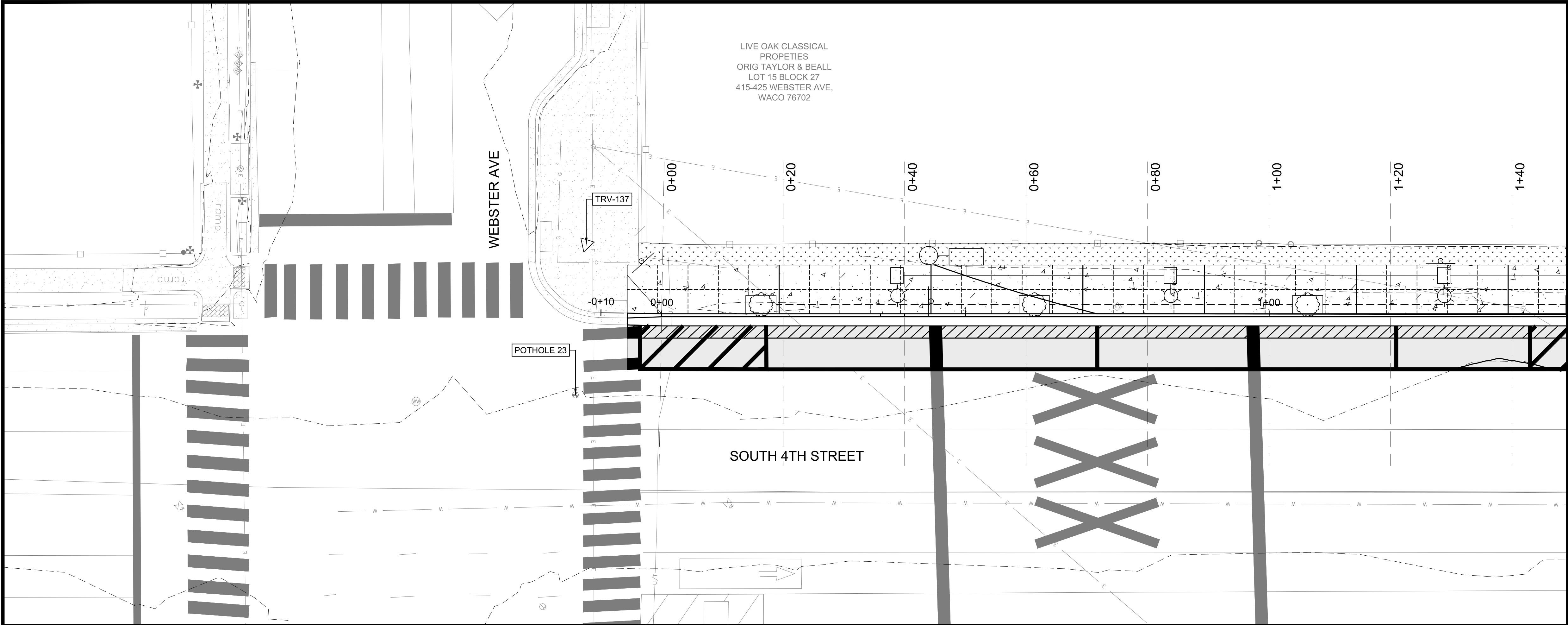
NO.	REVISION	BY	DATE
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1			
2			
3			
4			
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9			
10			

CITY OF WACO 4TH STREET PEDESTRIAN IMPROVEMENTS

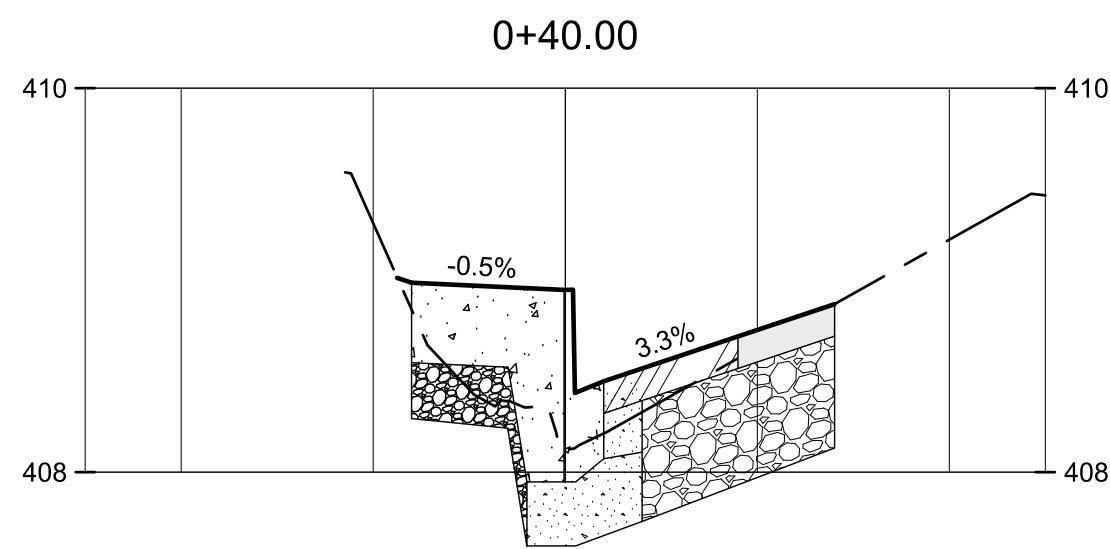
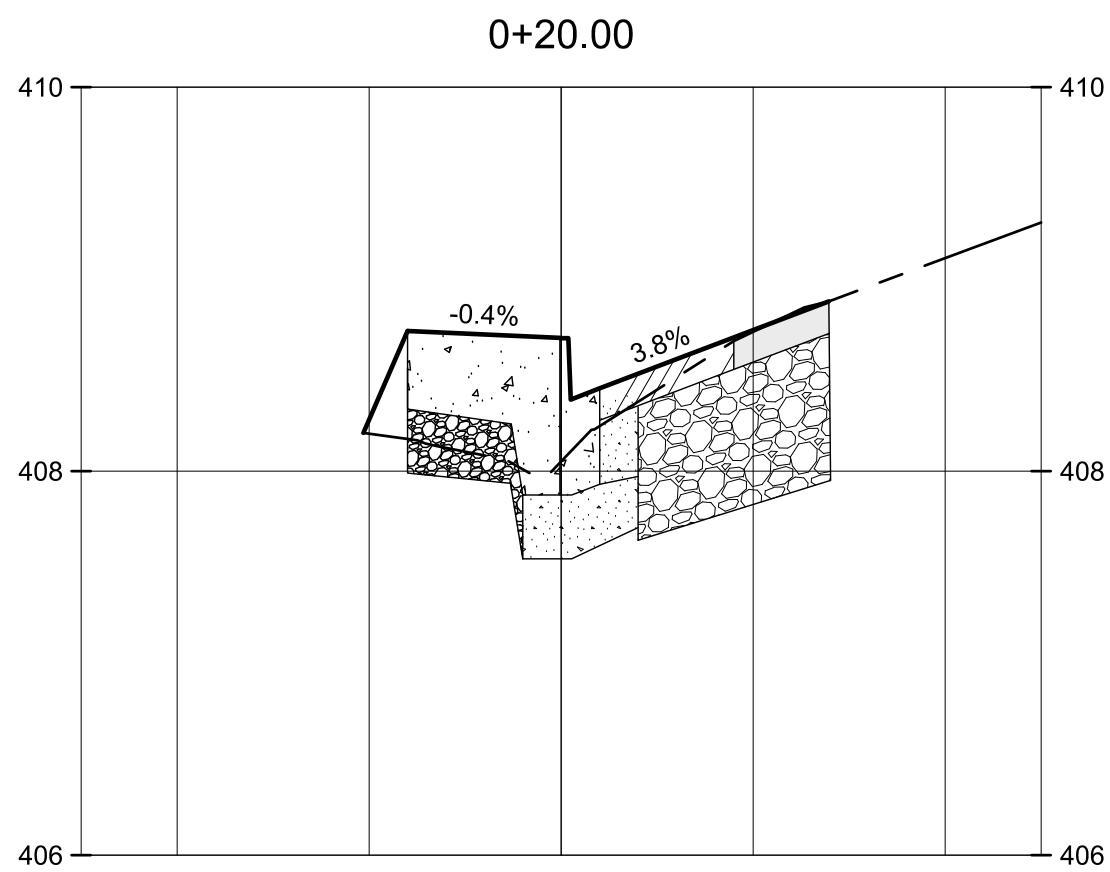
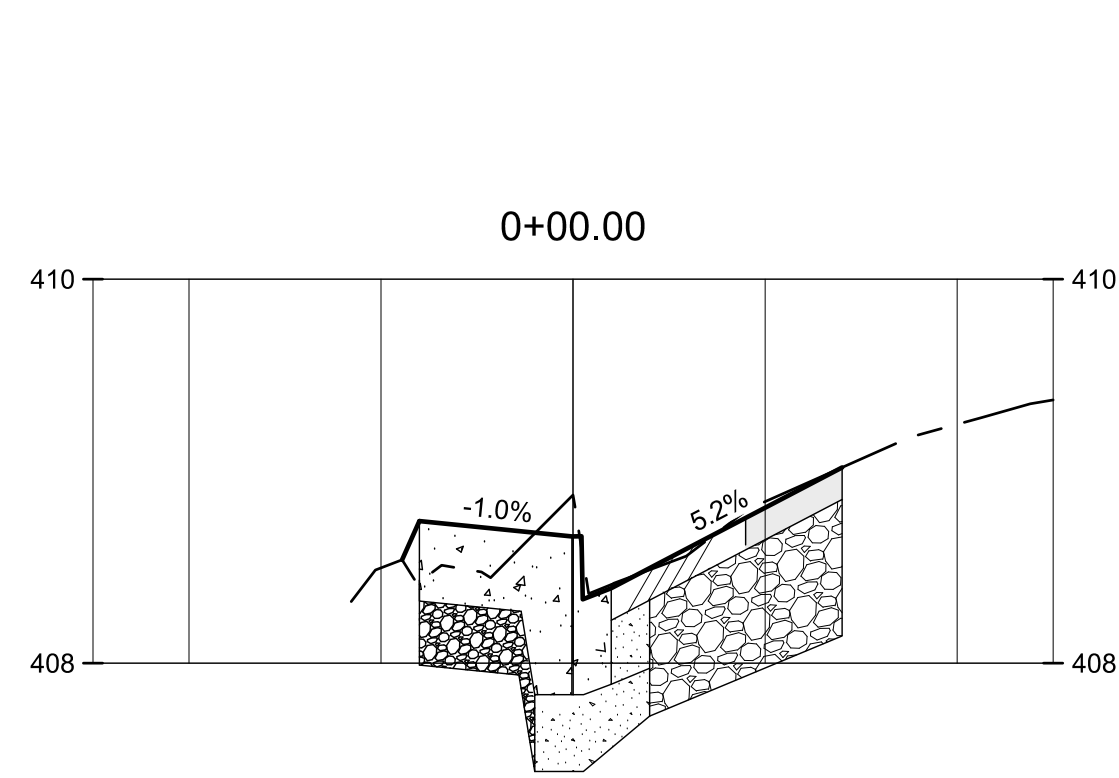
SITE GRADING PLANS

DESIGN: DLM
DRAWN: ECM
REVIEW: DLM
CP&Y: CWAC2300244
CLIENT:

SHEET
C702



LEGEND			
	EXISTING CONTOURS		
	PROPOSED CONTOURS		
	EXISTING GRADE		
	PROPOSED GRADE		
	EXISTING HMAC PAVEMENT		
	EXISTING PUG BASE		
	PROPOSED HMAC PAVEMENT		
	PROPOSED FLEXIBLE BASE		
	PROPOSED REINFORCED CONCRETE PAVEMENT		
	PROPOSED CEMENT STABILIZED BASE		



CP&Y, INC.
TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741

NO.	REVISION	BY	DATE
	1		

VERIFY SCALE BAR LENGTH EQUALS ONE INCH ON ORIGINAL DRAWING. VERIFY LENGTH ON THIS SHEET.

0 1" AND ADJUST SCALE ACCORDINGLY.

CITY OF WACO

4TH STREET PEDESTRIAN IMPROVEMENTS

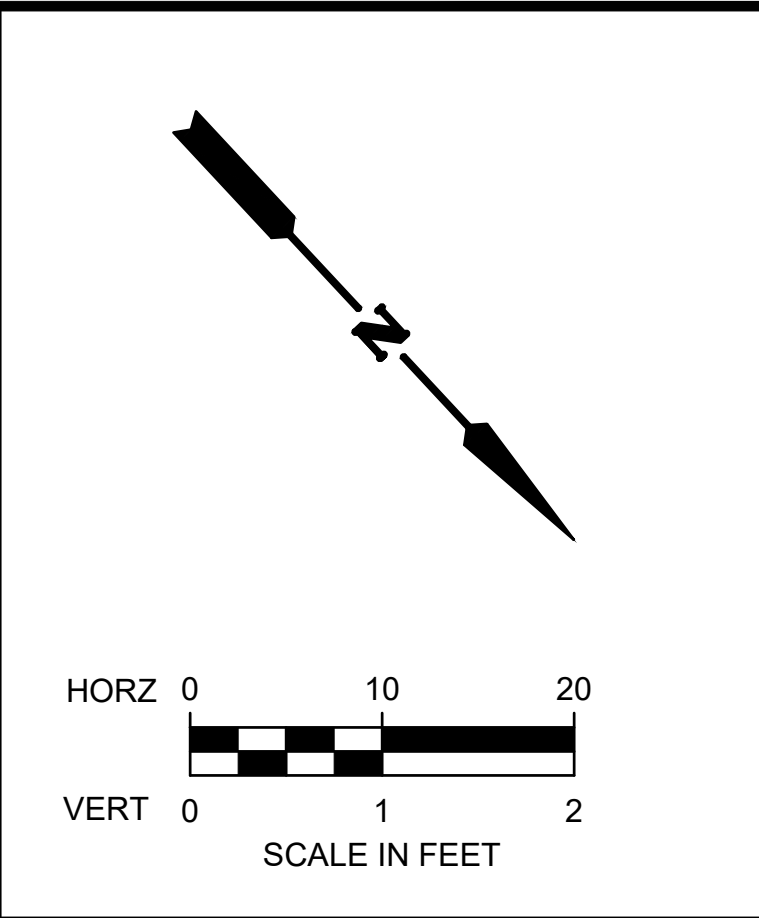
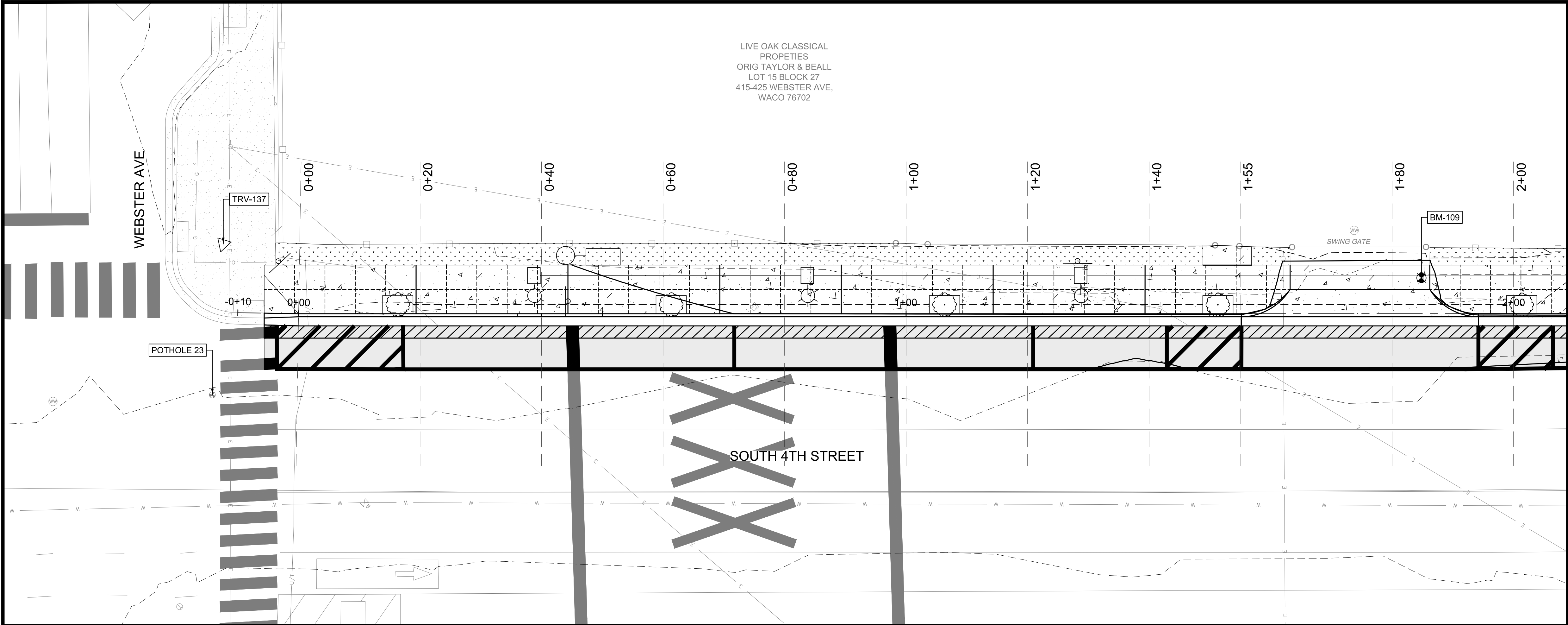
CROSS SECTIONS

STA. 0+00 TO STA. 0+40

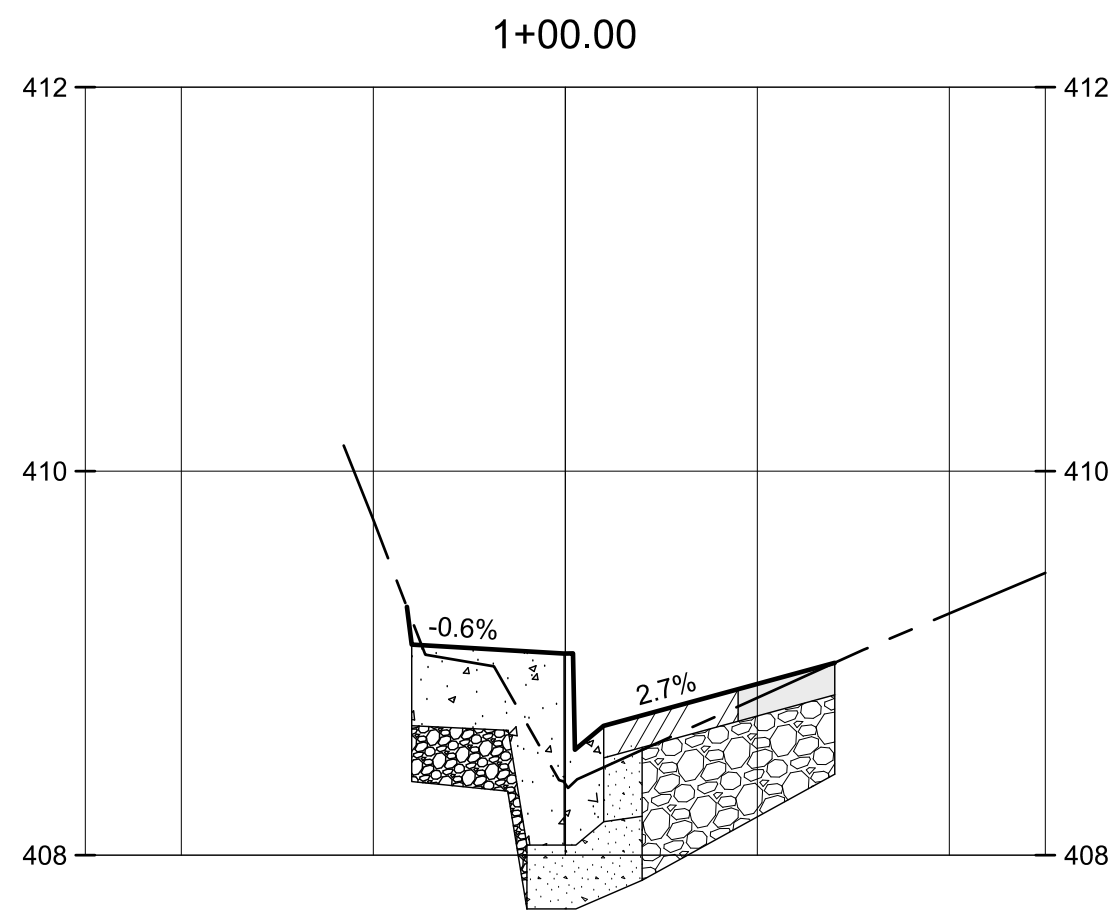
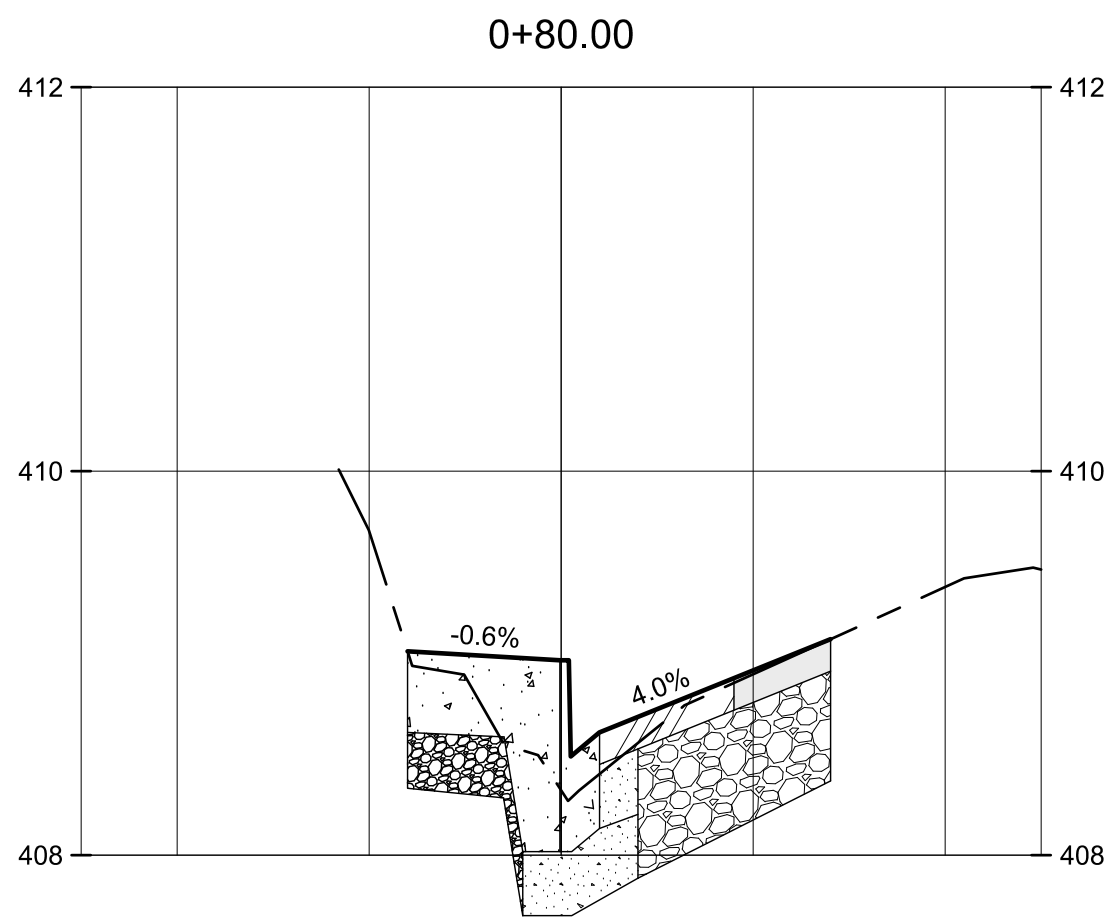
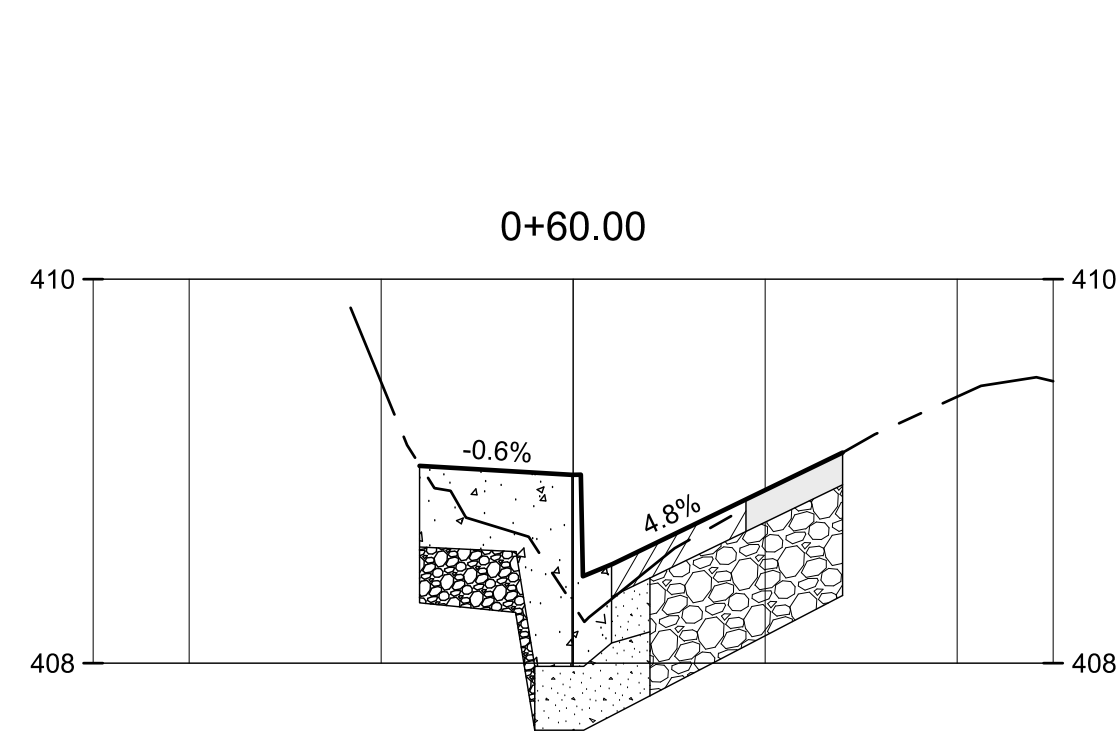
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DRAWN: ECM
REVIEW: DLM
CP&Y: CWAC2300244
CLIENT:

SHEET

C750



LEGEND			
	EXISTING CONTOURS		
	PROPOSED CONTOURS		
	EXISTING GRADE		
	PROPOSED GRADE		
	EXISTING HMAC PAVEMENT		
	EXISTING PUG BASE		
	PROPOSED HMAC PAVEMENT		
	PROPOSED FLEXIBLE BASE		
	PROPOSED REINFORCED CONCRETE PAVEMENT		
	PROPOSED CEMENT STABILIZED BASE		



CP&Y, INC.
TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741

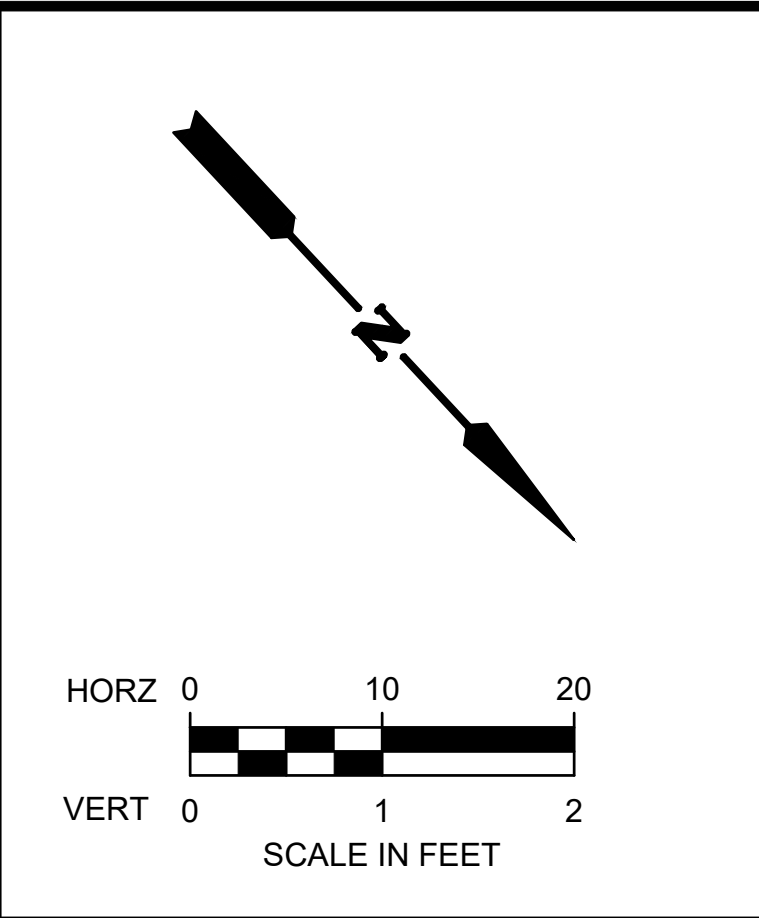
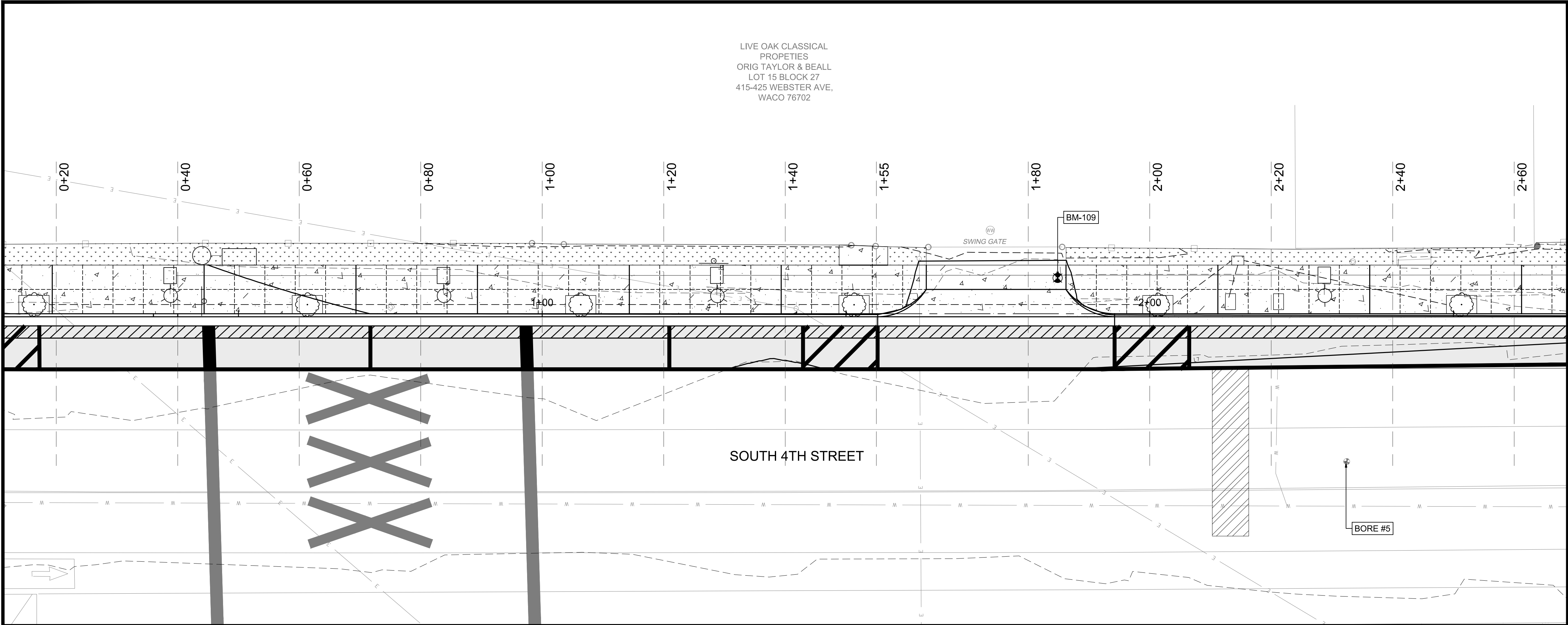
NO.	REVISION	BY	DATE

CITY OF WACO
4TH STREET PEDESTRIAN IMPROVEMENTS

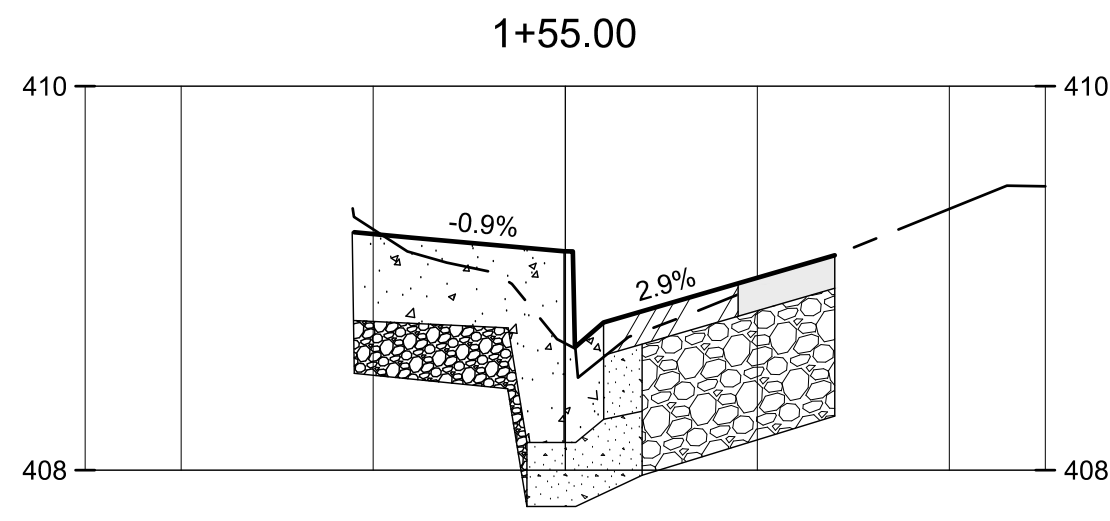
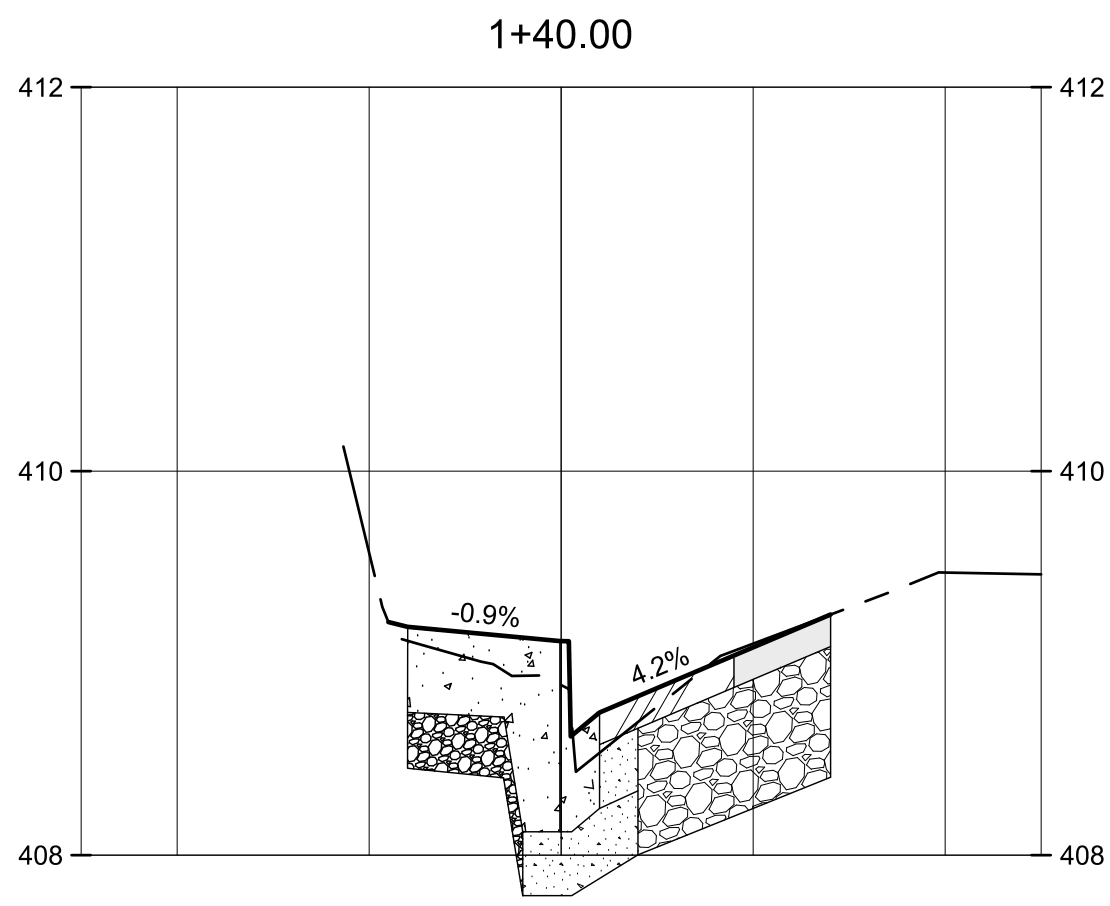
CROSS SECTIONS
STA. 0+60 TO STA. 1+00

DESIGN: DLM
DRAWN: ECM
REVIEW: DLM
CP&Y: CWAC2300244
CLIENT:

SHEET
C751



LEGEND			
	EXISTING CONTOURS		
	PROPOSED CONTOURS		
	EXISTING GRADE		
	PROPOSED GRADE		
	EXISTING HMAC PAVEMENT		
	EXISTING PUG BASE		
	PROPOSED HMAC PAVEMENT		
	PROPOSED FLEXIBLE BASE		
	PROPOSED REINFORCED CONCRETE PAVEMENT		
	PROPOSED CEMENT STABILIZED BASE		



CP&Y, INC.
TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741

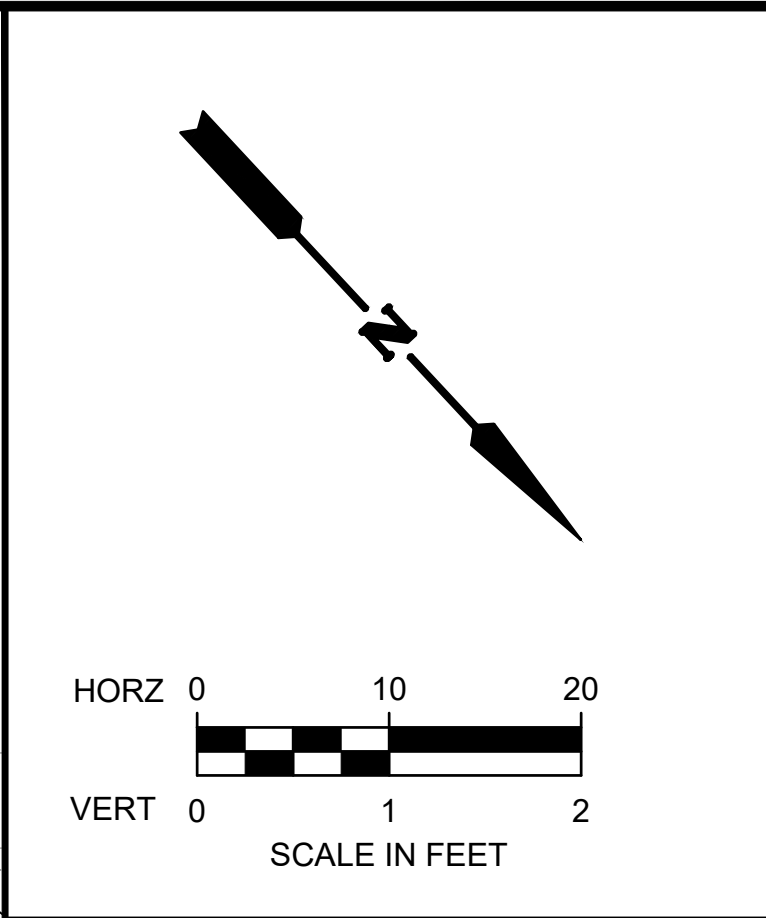
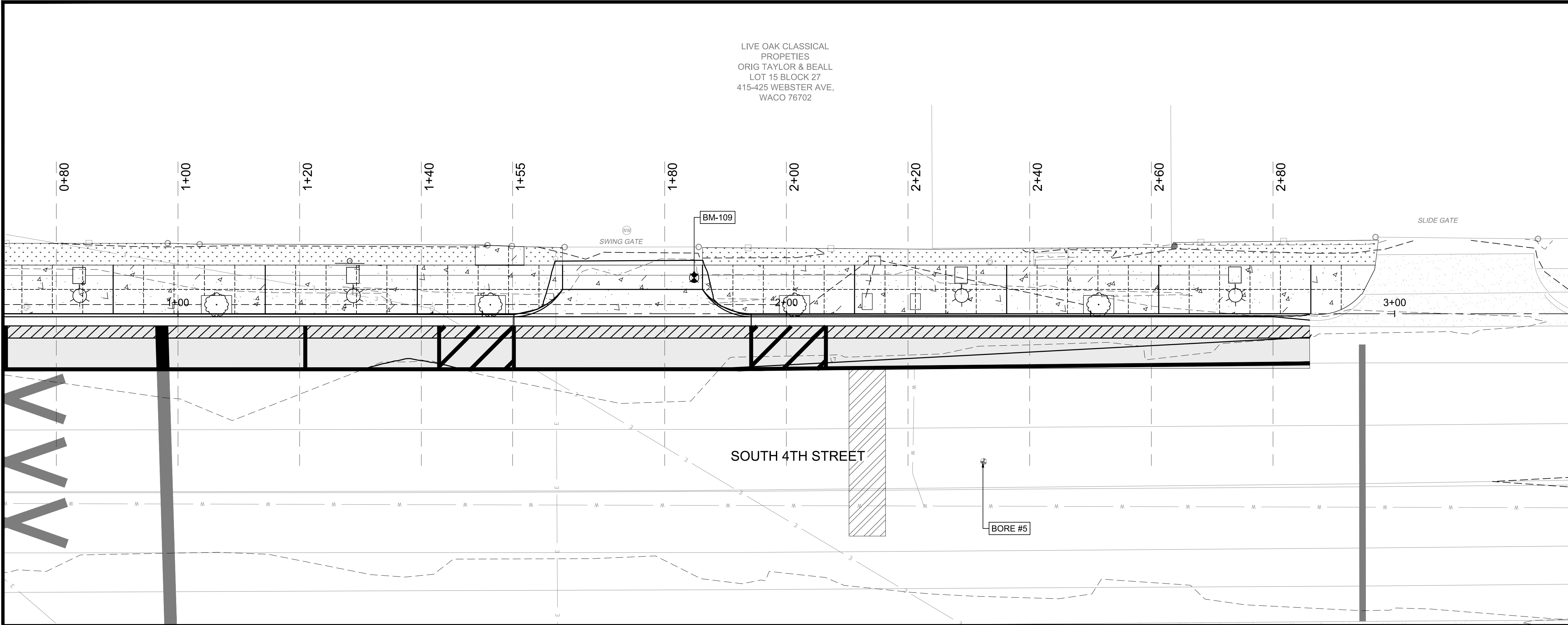
NO.	REVISION	BY	DATE

VERIFY SCALE BAR LENGTH EQUALS ONE INCH ON ORIGINAL
DRAWING VERIFY LENGTH ON THIS SHEET
0 1" AND ADJUST SCALE ACCORDINGLY.

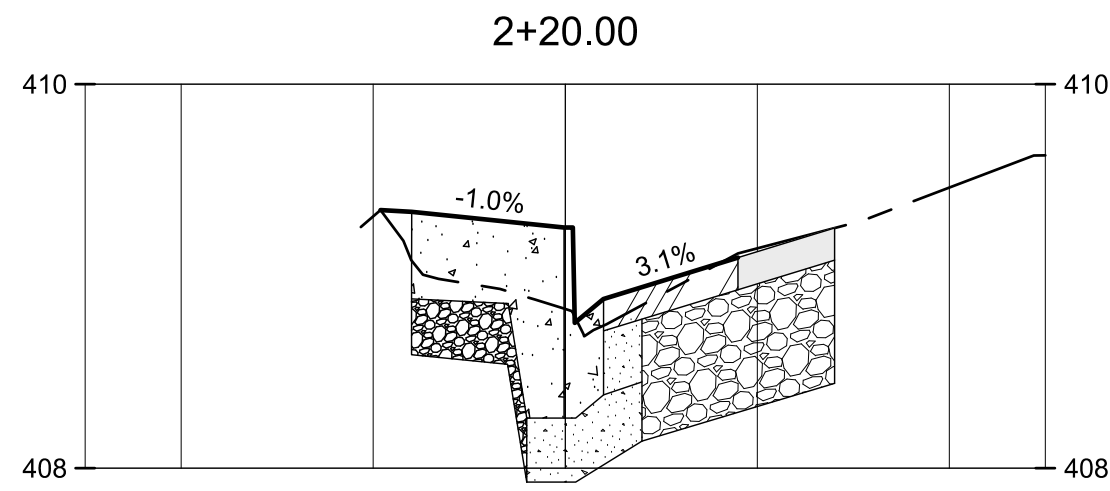
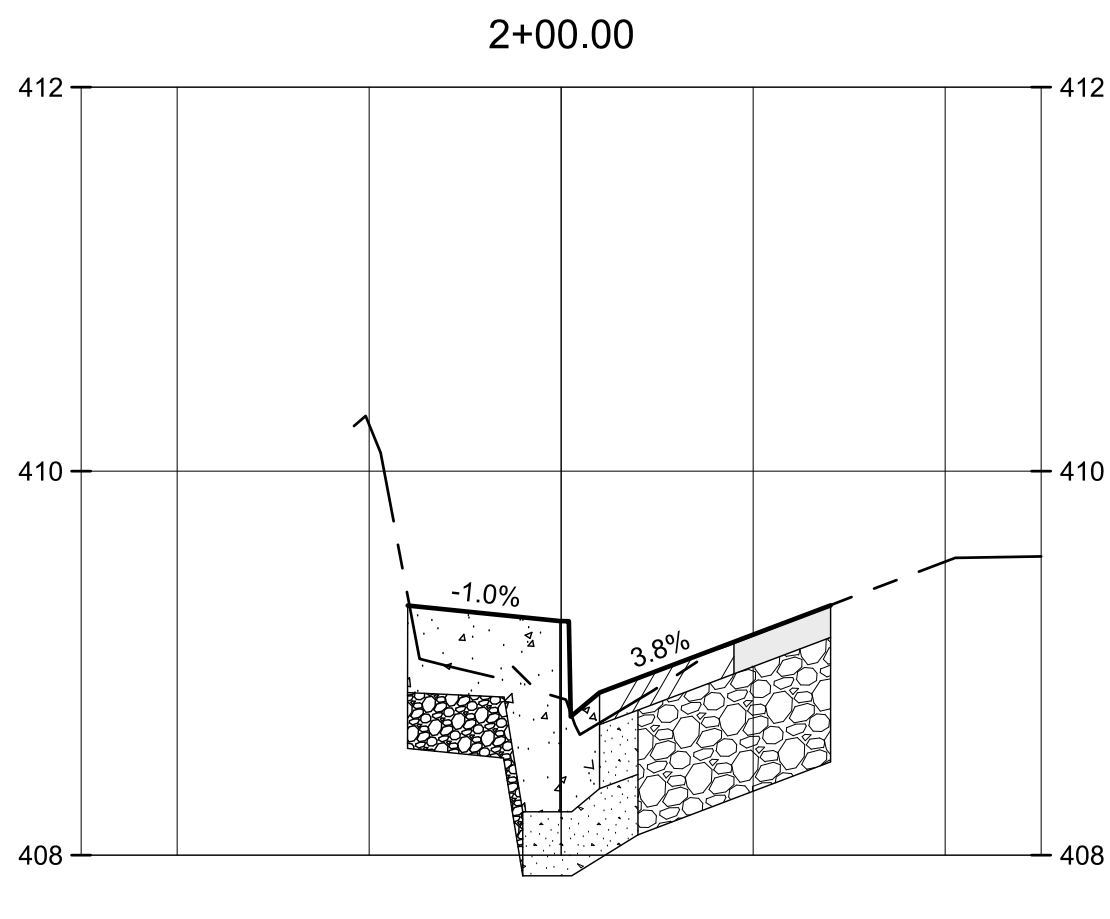
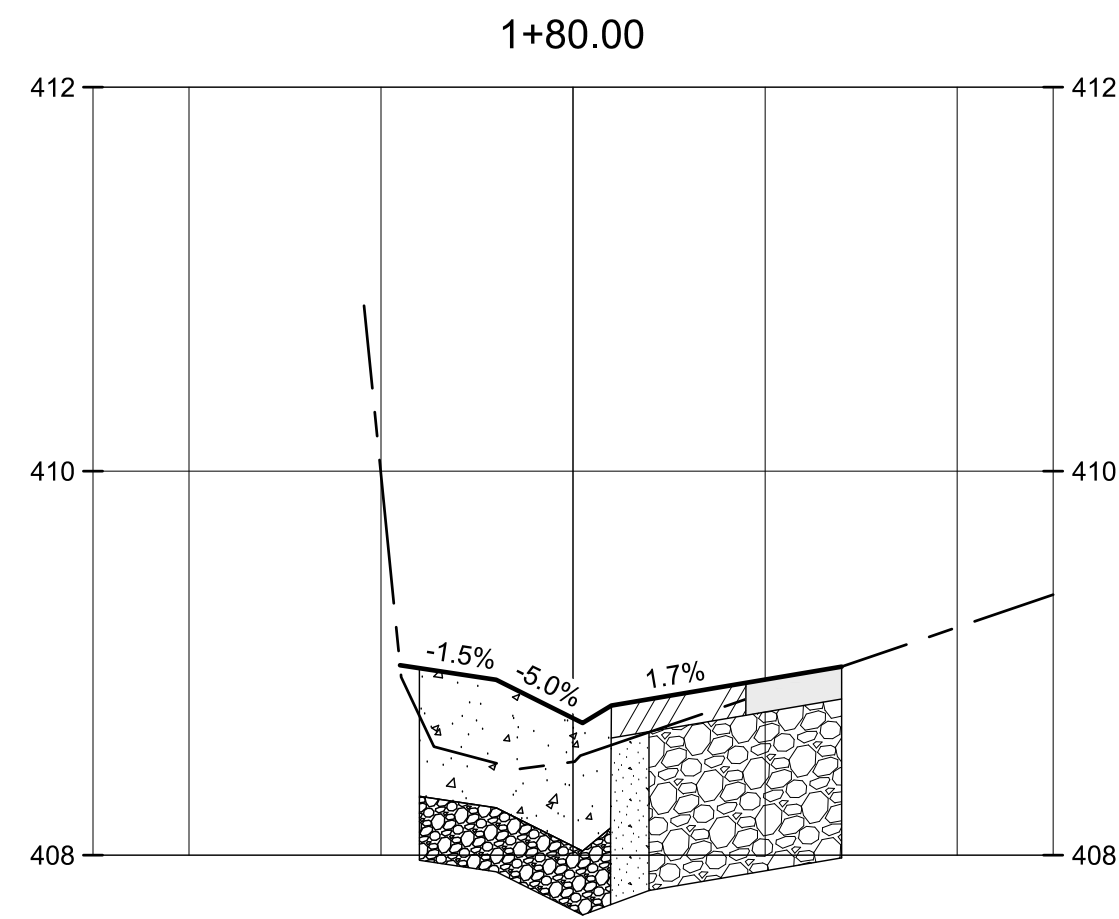
CITY OF WACO
4TH STREET PEDESTRIAN IMPROVEMENTS
CROSS SECTIONS
STA. 1+20 TO STA. 1+55

DESIGN: DLM
DRAWN: ECM
REVIEW: DLM
CP&Y: CWAC2300244
CLIENT:

SHEET
C752



LEGEND			
	EXISTING CONTOURS		
	PROPOSED CONTOURS		
	EXISTING GRADE		
	PROPOSED GRADE		
	EXISTING HMAC PAVEMENT		
	EXISTING PUG BASE		
	PROPOSED HMAC PAVEMENT		
	PROPOSED FLEXIBLE BASE		
	PROPOSED REINFORCED CONCRETE PAVEMENT		
	PROPOSED CEMENT STABILIZED BASE		



CP&Y, INC.
TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741

NO.	REVISION	BY	DATE
	1		
	2		
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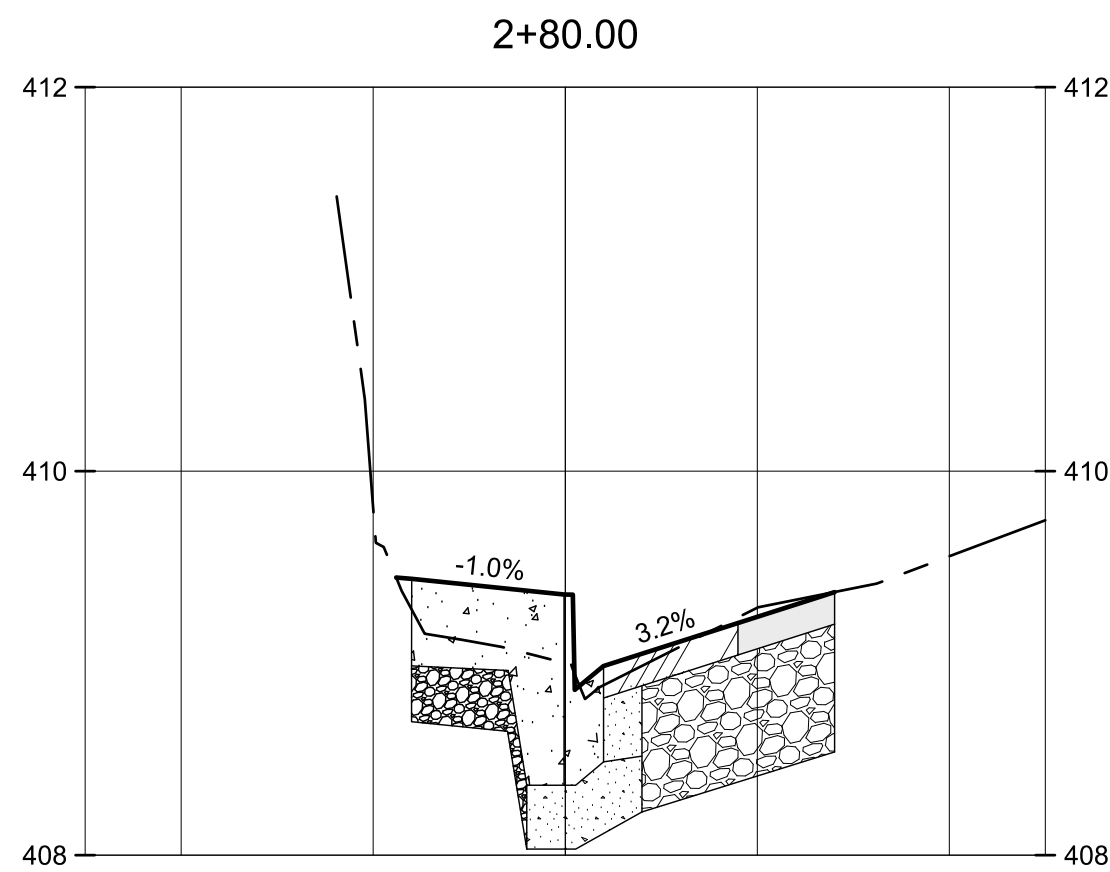
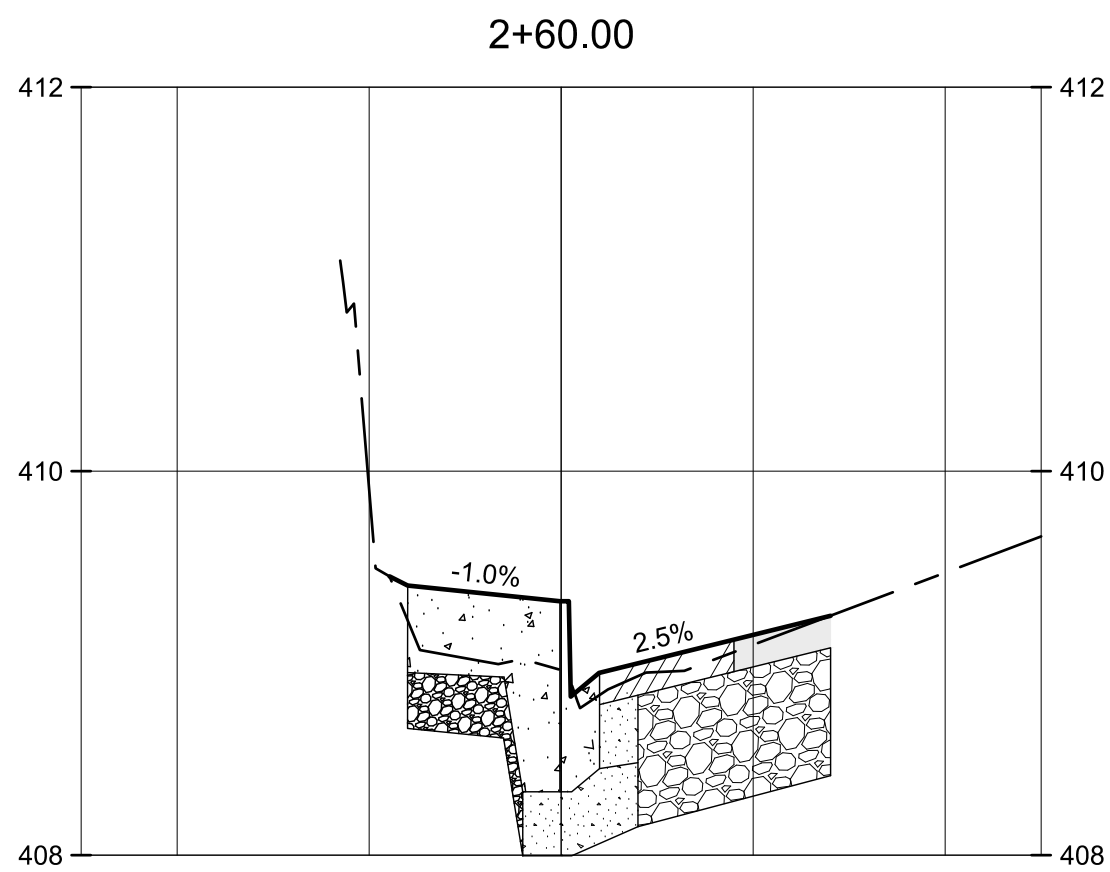
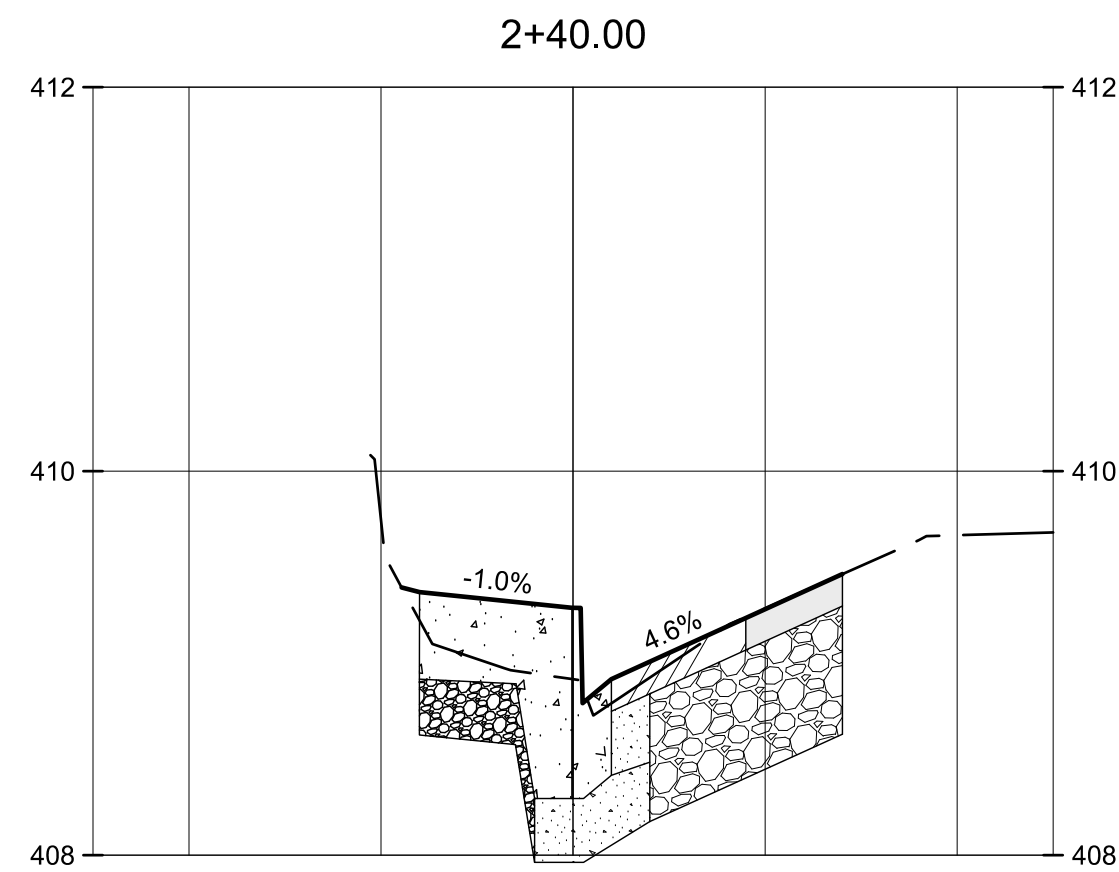
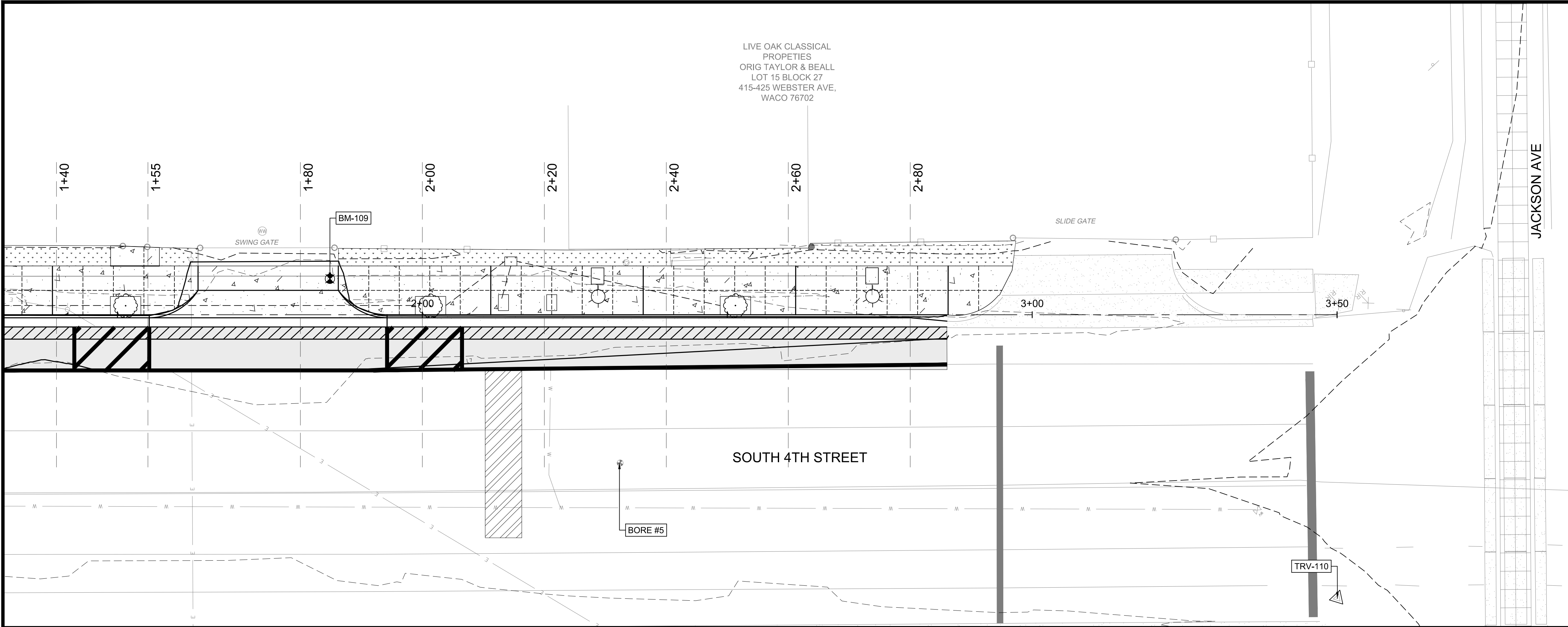
VERIFY SCALE BAR LENGTH EQUALS ONE INCH ON ORIGINAL
DRAWING. VERIFY LENGTH ON THIS SHEET
0 1" AND ADJUST SCALE ACCORDINGLY.

CITY OF WACO
4TH STREET PEDESTRIAN IMPROVEMENTS

CROSS SECTIONS
STA. 1+80 TO STA. 2+20

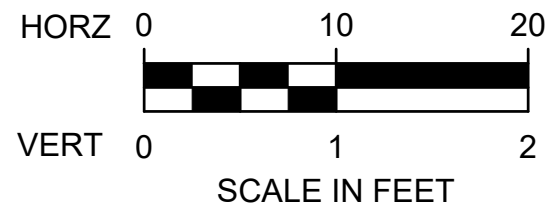
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REVIEW: DLM
CP&Y: CWAC2300244
CLIENT:

SHEET
C753



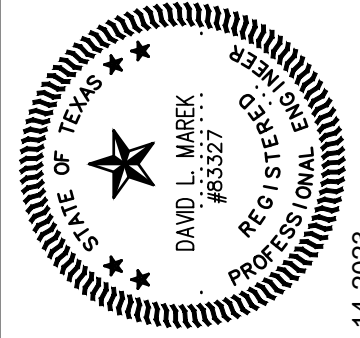
!!!CAUTION!!!
EXISTING OVERHEAD UTILITIES IN VICINITY. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR ELECTRIC FACILITIES.

!!!WARNING!!!
THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION AND AVOIDING ALL EXISTING UTILITIES BY CALLING THE 'ONE CALL' LOCATOR SERVICE AT (800)344-8377 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.



LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING GRADE
- PROPOSED GRADE
- EXISTING HMAC PAVEMENT
- EXISTING PUG BASE
- PROPOSED HMAC PAVEMENT
- PROPOSED FLEXIBLE BASE
- PROPOSED REINFORCED CONCRETE PAVEMENT
- PROPOSED CEMENT STABILIZED BASE



NO.	REVISION	BY	DATE
	VERIFY SCALE		
	BAR LENGTH EQUALS ONE INCH ON ORIGINAL		
	DRAWING. VERIFY LENGTH ON THIS SHEET		
	0 1" AND ADJUST SCALE ACCORDINGLY.		

CITY OF WACO 4TH STREET PEDESTRIAN IMPROVEMENTS CROSS SECTIONS STA. 2+40 TO STA. 2+80

DESIGN: DLM
DRAWN: ECM
REVIEW: DLM
CP&Y: CWAC2300244
CLIENT:

SHEET
C754

			ABBREVIATIONS			POWER - RECEPTACLES		
	120V. PHOTOCELL		ABC	ABOVE COUNTER			120V. DUPLEX RECEPTACLE - (REFER TO RECEPTACLE ABBREVIATIONS FOR EXCEPTIONS)	
	NON-FUSIBLE SAFETY SWITCH. SIZE AS NOTED (A RATING/POLES)		AFF	ABOVE FINISHED FLOOR			120V. DUPLEX RECEPTACLE - SPECIAL MOUNTING HEIGHT (REFER TO RECEPTACLE ABBREVIATIONS FOR EXCEPTIONS)	
	FUSIBLE SAFETY SWITCH. SIZE AS NOTED (AMP RATING/POLES)		AFG	ABOVE FINISHED GRADE			120V. QUADRUPLUX RECEPTACLE - (REFER TO RECEPTACLE ABBREVIATIONS FOR EXCEPTIONS)	
	COMBINATION MOTOR STARTER		C	RED- EMERGENCY POWER			120V. QUADRUPLUX RECEPTACLE - SPECIAL MOUNTING HEIGHT (REFER TO RECEPTACLE ABBREVIATIONS FOR EXCEPTIONS)	
	FACTORY WIRED CONTROLLER OR EQUIPMENT		CLG	CEILING			240V., 2-POLE, SINGLE RECEPTACLE, RATING AS SHOWN ON PLANS	
	MOTOR CONNECTION		FBO	FURNISHED BY OTHERS			120V. GFCI DUPLEX RECEPTACLE - (REFER TO RECEPTACLE ABBREVIATIONS FOR EXCEPTIONS)	
	UNIT HEATER CONNECTION		IG	ISOLATED GROUND			120V. GFCI QUADRUPLUX RECEPTACLE - (REFER TO RECEPTACLE ABBREVIATIONS FOR EXCEPTIONS)	
	DUCT HEATER CONNECTION		S	SAFETY TYPE				
	JUNCTION BOX		SMH	SPECIAL MOUNTING HEIGHT- AS NOTED OR SEE SPECS			CONNECTION FOR FILM ILLUMINATOR, COORDINATE ROUGH-IN PRIOR TO INSTALLATION	
	PANELBOARD - FLUSH MOUNTED		TV	TELEVISION			WIREMOLD - LENGTH AS REQUIRED - EMERGENCY POWER	
	PANELBOARD - SURFACE MOUNTED		WP	WEATHERPROOF			WIREMOLD - LENGTH AS REQUIRED - NORMAL POWER	
	X-RAY ISOLATION PANEL LINE ISOLATION MONITOR		TYPICAL MOUNTING HEIGHTS				GROUND JACK MODULE	
	ISOLATION PANEL LINE ISOLATION MONITOR		THE CONTRACTOR SHALL COORDINATE THE MOUNTING HEIGHT OF ALL FIXTURES DEVICES, AND OUTLETS WITH ARCHITECTURAL PLANS AND ELEVATIONS. SPECIAL MOUNTING HEIGHTS SHOWN ON THE PLANS SHALL TAKE PRECEDENCE OVER THOSE GIVEN BELOW. ALL MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTERLINE OF DEVICE, UNLESS NOTED OTHERWISE.				GROUNDING COLLECTION BUS	
	CLOCK, SINGLE FACE - CLOCK AND RECEPTACLE AS SPECIFIED.						GROUND AND RECEPTACLE MODULE	
	CLOCK, DOUBLE FACE - CLOCK AND RECEPTACLE AS SPECIFIED.		LIGHTING FIXTURES	WALL MOUNTED, SCONCE WALL MOUNTED, ABOVE MIRROR WALL MOUNTED, ABOVE DOOR WALL MOUNTED, ABOVE STAIR LANDING IN SOFFIT WALL MOUNTED, BESIDE DOOR STEP MOUNTED WALL MOUNTED, NEAR GRADE WALL MOUNTED, NEAR ROOF	6'-6" 0'-8" ABOVE TOP OF MIRROR CENTER BETWEEN FRAME & CEILING 7'-0" (SEE ARCHITECTURAL DETAIL) 6'-0" (SEE ACHITECTURAL) 8'-0" ABOVE GRADE LEVEL 2'-6" BELOW PARAPET			
	INTERVAL TIMER		SWITCHES	WALL SWITCHES AND DIMMERS MANUAL MOTOR STARTERS	3'-10" 3'-10"			
	MEDICAL GAS ALARM PANEL		RECEPTACLES	WALL ABOVE COUNTER WITHOUT BACKSPLASH ABOVE COUNTER WITH BACKSPLASH IN O.R.'S X-RAY FILM ILLUMINATORS	1'-6" 0'-8" ABOVE TOP OF COUNTER 0'-4" ABOVE TOP OF BACKSPLASH 1'-6" 2" BELOW AND 2" TO THE RIGHT OF LOWER RIGHT HAND CORNER (SAME AS TV OUTLET) 3'-6" 3'-0" 1'-0 BELOW CEILING			
	MEDICAL GAS LINE PRESSURE ALARM			FOR TELEVISION WALL HUNG SINKS (GFCI) PHYSICAL THERAPY (GCFI) CLOCK	3'-6" 3'-0" 1'-0 BELOW CEILING			
	MEDICAL GAS PRESSURE SWITCH		TV CABLE OUTLET	WALL ABOVE COUNTER WITHOUT BACKSPLASH ABOVE COUNTER WITH BACKSPLASH	3'-0" 0'-8" ABOVE TOP OF COUNTER 0'-4" ABOVE TOP OF BACKSPLASH			
	SECURITY SYSTEM CONTROL PANEL		TELEPHONE	DESK/ TABLE WALL TELEPHONE PAY TELEPHONE ABOVE COUNTER WITHOUT BACKSPLASH ABOVE COUNTER WITH BACKSPLASH PAT TELEPHONE, HANDICAPPED	1'-6" 3'-10" 3'-10" 0'-8" ABOVE TOP OF COUNTER 0'-4" ABOVE TOP OF BACKSPLASH (SEE ARCHITECTURAL DETAIL)			
	DOOR SWITCH MOUNTED IN DOOR JAMB		DATA OUTLETS	WALL ABOVE COUNTER WITHOUT BACKSPLASH ABOVE COUNTER WITH BACKSPLASH	1'-6" 0'-8" ABOVE TOP OF COUNTER 0'-4" ABOVE TOP OF BACKSPLASH			
	DOOR RELEASE PUSH BUTTON		ELECTRICAL EQUIPMENT	SAFETY SWITCH MOTOR STARTER PANELBOARD COMMUNICATION CABINET	6'-6" TO TOP OF ENCLOSURE 6'-6" TO TOP OF ENCLOSURE 6'-6" TO TOP OF ENCLOSURE 6'-6" TO TOP OF ENCLOSURE			
	CARD READER		CONTROL/SECURITY	WALL ARMOIRES WALL BRACKET DOOR ALARM PUSHBOTTON DOOR ACCESS KEYPAD CCTV CAMERA CCTV MONITOR	1'-6" 0'-4" ABOVE SHELF FOR TV CENTERLINE OF BRACKET 3'-10" 3'-10" 3'-10" 0'-6" BELOW CEILING LEVEL -			
	MOTION DETECTOR		FIRE ALARM	MANUAL PULL CHIME, HORN AND/OR STROBE	3'-10" 6'-8" OR 0'-6" BELOW CEILING (WHICHEVER IS LOWER) CEILING 6'-6" TO TOP OF ENCLOSURE 0'-8" DOWN FROM TOP OF DOOR			
	CIRCUIT HOMERUN - ARROWHEADS INDICATE QUANTITY OF CIRCUITS		NURSE CALL	SMOKE, HEAT DETECTORS CONTROL PANEL, ANNUNCIATOR MAGNETIC DOOR HOLDER	3'-10" 3'-6" AT HEIGHT OF SHOWER HEAD 3'-10" 3'-10" 3'-10			
	EXTERIOR CONDUIT BELOW GRADE OR CONCEALED CONDUIT IN SLAB							
	CONCEALED CONDUIT							
	BURIED, UNDERGROUND CABLE							
LIGHTING								
	DESIGNATES FIXTURE TYPE - SEE LIGHTING FIXTURE SCHEDULE							
	NORMAL BRANCH SURFACE OR RECESSED FLUORESCENT FIXTURE (TYPE DETERMINES MOUNTING)							
	CRITICAL BRANCH SURFACE OR RECESSED FLUORESCENT FIXTURE (TYPE DETERMINES MOUNTING)							
	LIFE-SAFETY BRANCH SURFACE OR RECESSED FLUORESCENT FIXTURE (TYPE DETERMINES MOUNTING)							
	NORMAL BRANCH SURFACE OR RECESSED FIXTURE (TYPE DETERMINES MOUNTING)							
	CRITICAL BRANCH SURFACE OR RECESSED FIXTURE (TYPE DETERMINES MOUNTING)							
	LIFE-SAFETY BRANCH SURFACE OR RECESSED FIXTURE (TYPE DETERMINES MOUNTING)							
	NORMAL BRANCH SURFACE OR SUSPENDED FLUORESCENT FIXTURE (TYPE DETERMINES MOUNTING)							
	CRITICAL BRANCH SURFACE OR SUSPENDED FLUORESCENT FIXTURE (TYPE DETERMINES MOUNTING)							
	LIFE-SAFETY BRANCH SURFACE OR SUSPENDED FLUORESCENT FIXTURE (TYPE DETERMINES MOUNTING)							
	NORMAL BRANCH WALL BRACKET FIXTURE							
	CRITICAL BRANCH WALL BRACKET FIXTURE							
	LIFE-SAFETY BRANCH WALL BRACKET FIXTURE							
	EXIT LIGHT, PROVIDE DIRECTIONAL ARROWS AS INDICATED ON PLANS							
	BATTERY POWERED EMERGENCY LIGHT							
	TRACK LIGHTING							
	GROUND AND POLE MOUNTED SITE FIXTURES							
SWITCHES								
	SINGLE POLE SWITCH	48" A.F.F						
	DOUBLE POLE SWITCH - CENTER OFF	48" A.F.F						
	THREE WAY SWITCH	48" A.F.F						
	FOUR WAY SWITCH	48" A.F.F						
	SINGLE POLE SWITCH - KEY OPERATED	48" A.F.F						
	DIMMER SWITCH							
	VARIABLE INTENSITY CONTROL							
	INTERVAL TIMER CONTROL SWITCH							
	SINGLE POLE SWITCH WITH PILOT LIGHT	48" A.F.F						
	OCCUPANCY SENSOR SWITCH							
	MOTOR RATED SWITCH WITH THERMAL OVERLOAD							
	OCCUPANCY SENSOR CEILING MOUNTED							
	DAYLIGHT SENSOR - CEILING MOUNTED							

ABC	ABOVE COUNTER	
AFF	ABOVE FINISHED FLOOR	
AFG	ABOVE FINISHED GRADE	
C	RED- EMERGENCY POWER	
CLG	CEILING	
FBO	FURNISHED BY OTHERS	
IG	ISOLATED GROUND	
S	SAFETY TYPE	
SMH	SPECIAL MOUNTING HEIGHT- AS NOTED OR SEE SPECS	
TV	TELEVISION	
WP	WEATHERPROOF	
TYPICAL MOUNTING HEIGHTS		
THE CONTRACTOR SHALL COORDINATE THE MOUNTING HEIGHT OF ALL FIXTURES DEVICES, AND OUTLETS WITH ARCHITECTURAL PLANS AND ELEVATIONS. SPECIAL MOUNTING HEIGHTS SHOWN ON THE PLANS SHALL TAKE PRECEDENCE OVER THOSE GIVEN BELOW. ALL MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTERLINE OF DEVICE, UNLESS NOTED OTHERWISE.		
LIGHTING FIXTURES	WALL MOUNTED, SCONCE WALL MOUNTED, ABOVE MIRROR WALL MOUNTED, ABOVE DOOR WALL MOUNTED, ABOVE STAIR LANDING IN SOFFIT WALL MOUNTED, BESIDE DOOR STEP MOUNTED WALL MOUNTED, NEAR GRADE WALL MOUNTED, NEAR ROOF	6'-6" 0'-8" ABOVE TOP OF MIRROR CENTER BETWEEN FRAME & CEILING 7'-0" (SEE ARCHITECTURAL DETAIL) 6'-0" (SEE ACHITECTURAL) 8'-0" ABOVE GRADE LEVEL 2'-6" BELOW PARAPET
SWITCHES	WALL SWITCHES AND DIMMERS MANUAL MOTOR STARTERS	3'-10" 3'-10"
RECEPTACLES	WALL ABOVE COUNTER WITHOUT BACKSPLASH ABOVE COUNTER WITH BACKSPLASH IN O.R.'S X-RAY FILM ILLUMINATORS	1'-6" 0'-8" ABOVE TOP OF COUNTER 0'-4" ABOVE TOP OF BACKSPLASH 1'-6" 2" BELOW AND 2" TO THE RIGHT OF LOWER RIGHT HAND CORNER (SAME AS TV OUTLET) 3'-6" 3'-0" 1'-0 BELOW CEILING
	FOR TELEVISION WALL HUNG SINKS (GFCI) PHYSICAL THERAPY (GCFI) CLOCK	3'-6" 3'-0" 1'-0 BELOW CEILING
TV CABLE OUTLET	WALL ABOVE COUNTER WITHOUT BACKSPLASH ABOVE COUNTER WITH BACKSPLASH	3'-0" 0'-8" ABOVE TOP OF COUNTER 0'-4" ABOVE TOP OF BACKSPLASH
TELEPHONE	DESK/ TABLE WALL TELEPHONE PAY TELEPHONE ABOVE COUNTER WITHOUT BACKSPLASH ABOVE COUNTER WITH BACKSPLASH PAT TELEPHONE, HANDICAPPED	1'-6" 3'-10" 3'-10" 0'-8" ABOVE TOP OF COUNTER 0'-4" ABOVE TOP OF BACKSPLASH (SEE ARCHITECTURAL DETAIL)
DATA OUTLETS	WALL ABOVE COUNTER WITHOUT BACKSPLASH ABOVE COUNTER WITH BACKSPLASH	1'-6" 0'-8" ABOVE TOP OF COUNTER 0'-4" ABOVE TOP OF BACKSPLASH
ELECTRICAL EQUIPMENT	SAFETY SWITCH MOTOR STARTER PANELBOARD COMMUNICATION CABINET	6'-6" TO TOP OF ENCLOSURE 6'-6" TO TOP OF ENCLOSURE 6'-6" TO TOP OF ENCLOSURE 6'-6" TO TOP OF ENCLOSURE
CONTROL/SECURITY	WALL ARMOIRES WALL BRACKET DOOR ALARM PUSHBOTTON DOOR ACCESS KEYPAD CCTV CAMERA CCTV MONITOR	1'-6" 0'-4" ABOVE SHELF FOR TV CENTERLINE OF BRACKET 3'-10" 3'-10" 3'-10" 0'-6" BELOW CEILING LEVEL -
FIRE ALARM	MANUAL PULL CHIME, HORN AND/OR STROBE	3'-10" 6'-8" OR 0'-6" BELOW CEILING (WHICHEVER IS LOWER) CEILING 6'-6" TO TOP OF ENCLOSURE 0'-8" DOWN FROM TOP OF DOOR
NURSE CALL	EMERGENCY PULL CORD STATION @ TOILET @ SHOWER SINGLE OR DUAL PATIENT STATION CODE BLUE STAFF AND DUTY STATION DOE AND ZONE LIGHTS NURSE PRESENCE STATION NURSE CALL MASTER STATION NURSE CALL TERMINAL CABINET	3'-10" 3'-6" AT HEIGHT OF SHOWER HEAD 3'-10" 3'-10" 3'-10" CEILING 3'-10" 0'-8" ABOVE COUNTER 6'-6" TO TOP OF ENCLOSURE
MONITOR	WALL ABOVE COUNTER WALL BRACKET SOFFIT	1'-6" 0'-8" ABOVE TOP OF COUNTER CENTERLINE OF BRACKET (SEE ARCHITECTURAL DETAIL)
TELEPHONE/DATA		
	TELEPHONE (BACKBOX WITH CONDUIT)	1'-6" AFF TO CL
	WALL TELEPHONE (BACKBOX WITH CONDUIT)	4'-6" AFF TO CL
	TELEPHONE, SPECIAL MOUNTING HEIGHT (BACKBOX WITH CONDUIT)	AS NOTED SEE SPECS.
	TELEPHONE FLOOR BOX	
	DATA/TELEPHONE (BACKBOX WITH CONDUIT)	1'-6" AFF TO CL
	COMBINATION DATA/TELEPHONE, SPECIAL MOUNTING HEIGHT (BACKBOX WITH CONDUIT)	AS NOTED SEE SPECS.
	DATA (BACKBOX WITH CONDUIT)	1'-6" AFF TO CL
	DATA, SPECIAL MOUNTING HEIGHT (BACKBOX WITH CONDUIT)	AS NOTED SEE SPECS.
	DATA FLOOR BOX	

	FIRE ALARM VISUAL STATION - LIGHT ONLY		
	FIRE ALARM MANUAL PULL STATION		
	FIRE ALARM HORN/VISUAL		
	MAGNETIC DOOR HOLDER		
	HEAT DETECTOR		
	DUCT SMOKE DETECTOR		
	SMOKE DTECTOR		
	SPRINKLER SYSTEM FLOW SWITCH		
	FIRE ALARM CONTROL PANEL		
	FIRE ALARM REMOTE ANNUNCIATOR		
FIRE ALARM			
	FIRE ALARM VISUAL STATION - LIGHT ONLY		
	FIRE ALARM MANUAL PULL STATION		
	FIRE ALARM HORN/VISUAL		
	MAGNETIC DOOR HOLDER		
	HEAT DETECTOR		
	DUCT SMOKE DETECTOR		
	SMOKE DTECTOR		
	SPRINKLER SYSTEM FLOW SWITCH		
	FIRE ALARM CONTROL PANEL		
	FIRE ALARM REMOTE ANNUNCIATOR		
ELECTRICAL ABBREVIATIONS			
ABBR	DEFINITION	ABBR	DEFINITION
A	AMPERE	JB	JUNCTION BOX
ABC	ABOVE COUNTER	KV	KILOVOLT
AC	ALTERNATING CURRENT	KVA	KILOVOLT-AMPERE
AF	AMPERE FUSE	KWA	KILOWATT
AFF	ABOVE FINISHED FLOOR	LTG	LIGHTING
AHU	AIR HANDLING UNIT	MAX	MAXIMUM
KAIC	AMPS INTERRUPTING CAPACITY x1000	MCB	MAIN CIRCUIT BREAKER
AT	AMPERE TRIP	MCC	MOTOR CONTROL CENTER
ANN	ANNUNCIATOR	MCM	CIRCULAR MILS. THOUSANDS
APP	APPROXIMATE	MECH	MECHANICAL
ARCH	ARCHITECT	MFR	MANUFACTURER
ATS	AUTOMATIC TRANSFER SWITCH	MGAP	MEDICAL GAS ALARM PANEL
AWG	AMERICAN WIRE GAUGE	MLO	MAIN LUGS ONLY
BLDG	BUILDING	MTD	MOUNTED
BSMT	BASEMENT	MTG	MOUNTING
C	CONDUIT	NEC	NATIONAL ELECTRICAL CODE
CAB	CABINET	NTS	NOT TO SCALE
CB	CIRCUIT BREAKER	PNL	PANEL
CKT	CIRCUIT	PH	PHASE
CLG	CEILING	P	POLE
CL	CENTER LINE	PFB	PROVISIONS FOR BREAKER
CT	CURRENT TRANSFORMER	PA	PUBLIC ADDRESS
CU	COPPER	RECP	RECEPTACLE
DISC	DISCONNECT	REFRIG	REFRIGERATOR
DN	DOWN	REQD	REQUIRED
DWG	DRAWING	SN	SOLID NEUTRAL
EA	EACH	SPKR	SPEAKER
EDF	ELECTRIC DRINKING FOUNTAIN	SPEC	SPECIFICATION
EF	EXHAUST FAN	SWBD	SWITCHBOARD
ELEV	ELEVATOR	SWGR	SWITCHGEAR
EP	EXPLOSION-PROOF	TEL	TELEPHONE
EQPT	EQUIPMENT	TTB	TELEPHONE TERMINAL BOARD
EXTG	EXISTING	TV	TELEVISION
FA	FIRE ALARM	TVSS	TRANSIENT VOLT. SURGE SUPPRESSOR
FACP	FIRE ALARM CONTROL PANEL	TYP	TYPICAL
FCU	FAN COIL UNIT	UC	UNDER COUNTER
FLA	FULL LOADS AMPS	UH	UNIT HEATER
FLR	FLOOR	V	VOLT
GFCI	GROUND FAULT CURCUIT INTERRUPTER	VA	VOLTAMPERE
GND	GROUND	W	WATT
HTR	HEATER	WH	WATER HEATER

GENERAL NOTES TO CONTRACTOR

1. THE CONTRACTOR SHALL NOT DEVIATE FROM DESIGN. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL WORK TO MATCH THE DRAWINGS AS SHOWN. ANY DEVIATION FROM THE DESIGN BY THE CONTRACTOR WILL RESULT IN THE CONTRACTOR PAYING ENGINEER DIRECTLY TO UPDATE ANY CITY REQUIRED CHANGES ON CITY DRAWINGS. THE FEE AMOUNT WILL BE DETERMINED BASED ON EXTENT OF CHANGES AND TIMEFRAME. THIS DOES NOT SUBSTITUTE FOR AS-BUILT RECORD DRAWINGS THAT THE CONTRACTOR SHALL FURNISH TO OWNER. AS-BUILT AND SHOP DRAWINGS ARE STILL REQUIRED AS PER STANDARD INDUSTRY PRACTICE.

2. THE CONTRACTOR SHALL CARRY A LINE ITEM ALLOWANCE CONTINGENCY OF \$1,500 WHICH SHALL BE USED FOR ANY INCIDENTAL CITY INSPECTION ITEMS THAT COME UP AT THE LAST MINUTE AND WERE NOT BROUGHT UP IN THE PLAN CHECK AND AWARDING OF THE PERMIT. IF NO SUCH ITEMS ARE BROUGHT UP BY THE CITY DURING INSPECTIONS (INCLUDING FINAL) CITY AWARDS THE C.O. FOR THE OWNER TO MOVE IN THEN THE ALLOWANCE SHALL BE CREDITED IN FULL TO THE OWNER.

3. GC/CONSTRUCTION MANAGER SHALL BE RESPONSIBLE TO CROSS COORDINATE THE MEP DRAWINGS WITH THE ARCHITECTURAL SPECIFICALLY, BUT NOT LIMITED TO, POWER AND DATA OUTLETS LIGHT FIXTURES, LIGHT FIXTURES SWITCHING, SUPPLY OF WATER FOR COFFEE, REFRIGERATOR, DRINKING WATER DEVICES ETC.

4. WHERE NEW LIGHTS OR RECEPTACLES ARE DESIGNED TO BE CONNECTED TO AN EXISTING CIRCUIT, ELECTRICIAN SHALL TRACE EXSTING CIRCUIT TO DETERMINE CIRCUIT LOADING. THE LOAD ON A 20 AMP CIRCUIT SHALL NOT EXCEED 16 AMPS WHERE THIS CANNOT ACHIEVED, CONTRACTOR SHALL CONTACT THE ENGINEER FOR ALTERNATIVE CIRCUITING INSTRUCTIONS.

ELECTRICAL SHEET LIST	
Sheet Number	Sheet Name
E1.0	LEGEND
E1.1	DIAGRAM
E1.2	SCHEDULE
E1.3	ELECTRICAL DETAILS
E2.1	LIGHTING FLOOR PLAN

ABBR	DEFINITION	ABBR	DEFINITION
A	AMPERE	JB	JUNCTION BOX
ABC	ABOVE COUNTER	KV	KILOVOLT
AC	ALTERNATING CURRENT	KVA	KILOVOLT-AMPERE
AF	AMPERE FUSE	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	LTG	LIGHTING
AHU	AIR HANDLING UNIT	MAX	MAXIMUM
KAIC	AMPS INTERRUPTING CAPACITY x1000	MCB	MAIN CIRCUIT BREAKER
AT	AMPERE TRIP	MCC	MOTOR CONTROL CENTER
ANN	ANNUNCIATOR	MCM	CIRCULAR MILS, THOUSANDS
APP	APPROXIMATE	MECH	MECHANICAL
ARCH	ARCHITECT	MFR	MANUFACTURER
ATS	AUTOMATIC TRANSFER SWITCH	MGAP	MEDICAL GAS ALARM PANEL
AWG	AMERICAN WIRE GAUGE	MLO	MAIN LUGS ONLY
BLDG	BUILDING	MTD	MOUNTED
BSMT	BASEMENT	MTG	MOUNTING
C	CONDUIT	NEC	NATIONAL ELECTRICAL CODE
CAB	CABINET	NTS	NOT TO SCALE
CB	CIRCUIT BREAKER	PNL	PANEL
CKT	CIRCUIT	PH	PHASE
CLG	CEILING	P	POLE
CL	CENTER LINE	PFB	PROVISIONS FOR BREAKER
CT	CURRENT TRANSFORMER	PA	PUBLIC ADDRESS
CU	COPPER	RECP	RECEPTACLE
DISC	DISCONNECT	REFRIG	REFRIGERATOR
DN	DOWN	REQD	REQUIRED
DWG	DRAWING	SN	SOLID NEUTRAL
EA	EACH	SPKR	SPEAKER
EDF	ELECTRIC DRINKING FOUNTAIN	SPEC	SPECIFICATION
EF	EXHAUST FAN	SWBD	SWITCHBOARD
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EQPT	EQUIPMENT	TTB	TELEPHONE TERMINAL BOARD
EXTG	EXISTING	TV	TELEVISION
FA	FIRE ALARM	TVSS	TRANSIENT VOLT. SURGE SUPPRESSOR
FACP	FIRE ALARM CONTROL PANEL	Typ	TYPICAL
FCU	FAN COIL UNIT	UC	UNDER COUNTER
FLA	FULL LOADS AMPS	UH	UNIT HEATER
FLR	FLOOR	V	VOLT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	VA	VOLTAMPERE
GND	GROUND	W	WATT
HTR	HEATER	WH	WATER HEATER

SWITCHES		
\$	SINGLE POLE SWITCH	48" A.F.F
\$ ₂	DOUBLE POLE SWITCH - CENTER OFF	48" A.F.F
\$ ₃	THREE WAY SWITCH	48" A.F.F
\$ ₄	FOUR WAY SWITCH	48" A.F.F
\$ _K	SINGLE POLE SWITCH - KEY OPERATED	48" A.F.F
\$ _D	DIMMER SWITCH	
\$ _V	VARIABLE INTENSITY CONTROL	
\$ _T	INTERVAL TIMER CONTROL SWITCH	
\$ _P	SINGLE POLE SWITCH WITH PILOT LIGHT	48" A.F.F
\$ _{OC}	OCCUPANCY SENSOR SWITCH	
\$ _M	MOTOR RATED SWITCH WITH THERMAL OVERLOAD	
(OC)	OCCUPANCY SENSOR CEILING MOUNTED	
(DS)	DAYLIGHT SENSOR - CEILING MOUNTED	

TELEPHONE/DATA		
	TELEPHONE (BACKBOX WITH CONDUIT)	1'-6" AFF TO CL
	WALL TELEPHONE (BACKBOX WITH CONDUIT)	4'-6" AFF TO CL
	TELEPHONE, SPECIAL MOUNTING HEIGHT (BACKBOX WITH CONDUIT)	AS NOTED SEE SPECS.
	TELEPHONE FLOOR BOX	
	DATA/TELEPHONE (BACKBOX WITH CONDUIT)	1'-6" AFF TO CL
	COMBINATION DATA/TELEPHONE, SPECIAL MOUNTING HEIGHT (BACKBOX WITH CONDUIT)	AS NOTED SEE SPECS.
	DATA (BACKBOX WITH CONDUIT)	1'-6" AFF TO CL
	DATA, SPECIAL MOUNTING HEIGHT (BACKBOX WITH CONDUIT)	AS NOTED SEE SPECS.
	DATA FLOOR BOX	

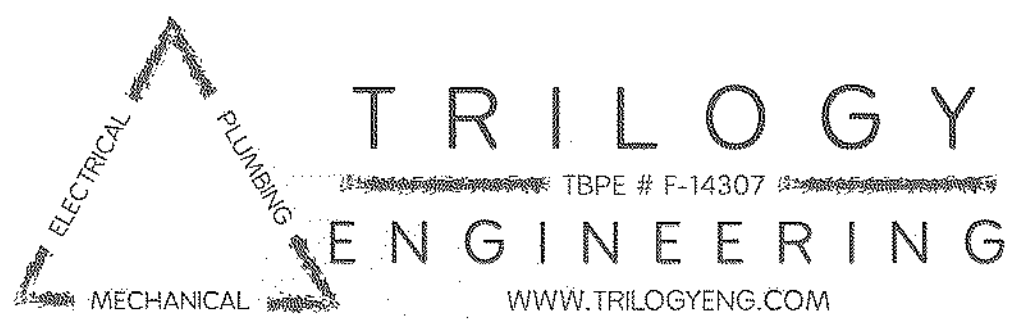


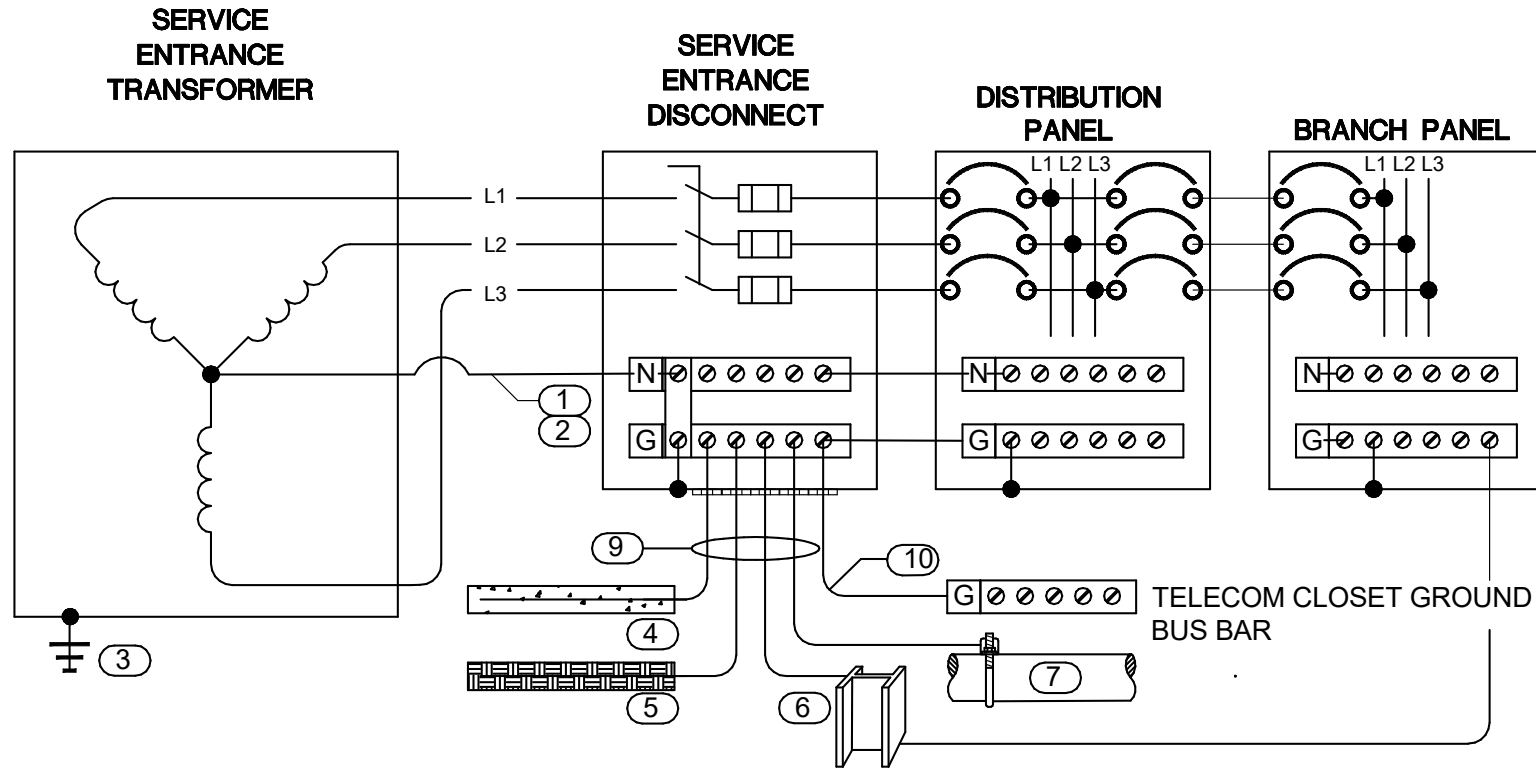
NO.	REVISION	BY	DATE
	VERIFY SCALE	BAR LENGTH EQUALS ONE INCH ON ORIGINAL DRAWING. VERIFY LENGTH ON	
0	1"	1"	
		APPROBINGLY	

CITY OF WACO
4TH STREET PEDESTRIAN IMPROVEMENTS

DESIGN:	2318
DRAWN:	AH
REVIEW:	BK
CP&Y:	
CLIENT:	

E1.0

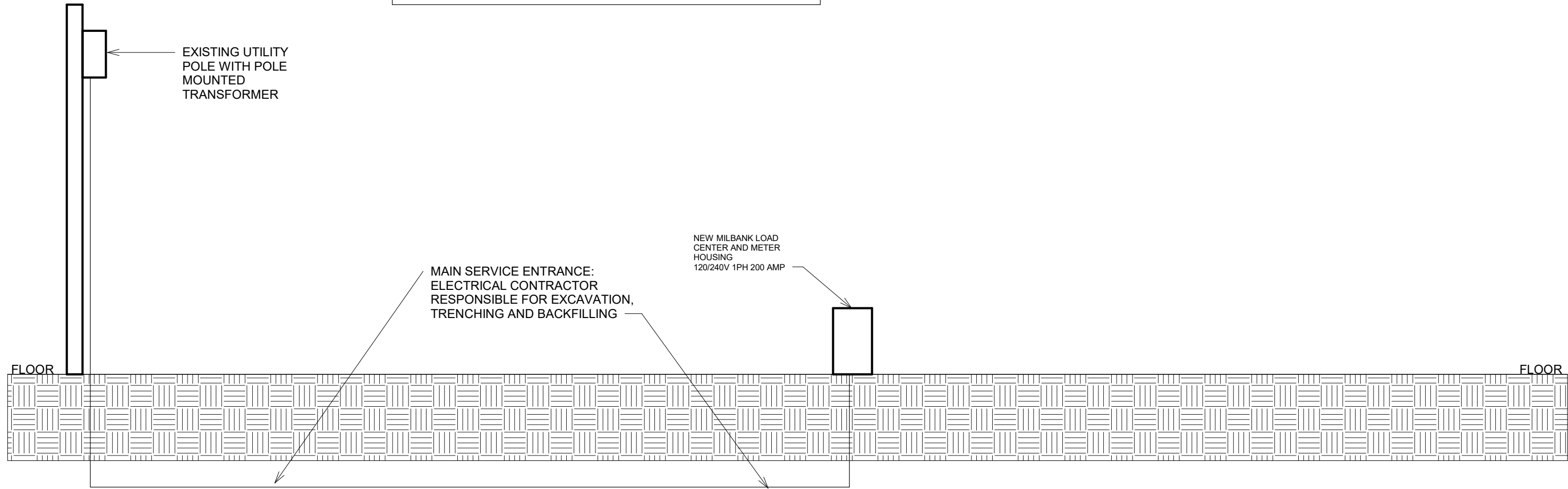




KEYED NOTES:

1. REFER TO ONE LINE AND PANEL SCHEDULES FOR CONDUCTOR SIZING NOT SHOWN ON GROUNDING SCHEMATIC.
2. UNO, ALL GROUNDING CONDUCTORS SHALL BE COPPER TYPE THHN/THWN.
3. TRANSFORMER GROUNDING PER UTILITY PROVIDER'S SPECIFICATION.
4. 20' OF MIN. 4AWG BARE COPPER CONDUCTOR ENCASED IN 2" MIN. OF CONCRETE FOUNDATION IN DIRECT CONTACT WITH EARTH.
5. 20' OF MIN. 4AWG BARE COPPER CONDUCTOR BURIED IN DIRECT CONTACT WITH EARTH AT 2' BELOW GRADE
6. CAD WELD CONNECTION TO BUILDING STEEL.
7. BONDING STRAP AT METAL COLD WATER AND GAS PIPING.
8. REFER TO I.T PROVIDER FOR GROUNDING SIZE
9. REFER TO RISER DIAGRAM FOR WIRE SIZE
10. TELECOM GROUND REFER TO IT CONTRACTOR FOR SIZE AND LOCATION

④ GROUNDING ONE-LINE DIAGRAM
N.T.S



① ELECTRICAL RISER DIAGRAM
1/2" = 1'-0"

ELECTRICAL SPECIFICATIONS

1. THE WORK INCLUDES PROVIDING NEW MATERIALS, FIXTURES, DEVICES AND ACCESSORIES NECESSARY FOR A COMPLETE FUNCTIONING ELECTRICAL SYSTEM. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES OR ORDINANCES AND SUBJECT TO INSPECTION.

COMPLY WITH ALL LAWS APPLYING TO ELECTRICAL INSTALLATIONS IN EFFECT, AND WITH THE MOST RECENT EDITION OF THE NATIONAL ELECTRICAL CODE, ADA, APPLICABLE SECTIONS OF OTHER NFPA, OSHA, LIFE SAFETY CODES AND RECOMMENDATIONS, AND THE INTERIM AMENDMENTS IN EFFECT AT THE TIME OF THE PROPOSAL. ALL MATERIALS USED SHALL BE NEW AND SHALL CONFORM TO THE STANDARDS ESTABLISHED BY THE UNDERWRITERS LABORATORIES INCORPORATED.

2. THE INTENT OF THE DRAWINGS IS TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR ELECTRICAL WORK ARE DIAGRAMMATIC, SHOWING THE LOCATION, TYPE, DEVICES AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. PROVIDE ALL FIXTURES, DEVICES, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT FURNISHED BY OTHERS.

3. TEMPORARY SERVICES: ARRANGE FOR SOURCES OF TEMPORARY CONSTRUCTION SERVICES. SUCH SERVICES SHALL BE NOMINALLY 120/240 VOLT, SINGLE-PHASE, THREE-WIRE FROM WHICH A COMPLETE SYSTEM OF TEMPORARY POWER AND LIGHTING CAN BE PROVIDED FOR ALL CONSTRUCTION NEEDS.

4. ELECTRICAL DESIGN FOR THIS INSTALLATION IS BASED ON FIELD INSPECTIONS FOR THE EXISTING BUILDING. ELECTRICAL CONTRACTOR IS TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING. ALLOWANCES ARE TO BE INCLUDED FOR UNFORESEEN EXISTING CONDITIONS THAT MAY EFFECT THE CONTRACTOR'S SCOPE OF WORK. MINOR DEVIATIONS REQUIRED FOR ACCOMPLISHING THE INTENT OF THIS DESIGN IS TO BE INCLUDED IN THIS ALLOWANCE.

5. ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES. ANY ITEM DAMAGED BY THIS CONTRACTOR IS TO BE REPAIRED IMMEDIATELY AND AT NO COST TO THE OWNER.

6. ROOF PENETRATIONS SHALL COMPLY WITH "SMACNA" AND "NRCA" STANDARDS, AND WITH THE REQUIREMENTS OF THE EXISTING ROOFING WARRANTY, IF APPLICABLE. DO NOT PERFORM ROOFING PENETRATIONS IN A MANNER WHICH WOULD VOID OR OTHERWISE LIMIT THE EXISTING ROOFING WARRANTY.

7. ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING EQUIPMENT AS SHOWN ON DESIGN DRAWINGS, AND ARE IN GOOD WORKING CONDITION PRIOR TO RE-USING. IF EXISTING CONDITIONS ARE NOT AS SHOWN OR ARE NOT IN GOOD WORKING CONDITION, CONTRACTOR SHALL PROVIDE EQUIPMENT, CONDUIT, AND/OR WIRE INDICATED TO PROVIDE A "LIKE-NEW" AND CODE COMPLIANT INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR RELOCATING ANY EXISTING ITEMS BEING REUSED. ANY EXISTING EQUIPMENT, CONDUIT OR WIRE NOT BEING REUSED SHALL BE REMOVED BY THIS CONTRACTOR.

8. ELECTRICAL DESIGN HAS BEEN BASED ON THE INSTALLATION OF 75 DEGREES C CONDUCTORS CONNECTED TO TERMINAL LUGS AND EQUIPMENT, U.L. LISTED FOR A MINIMUM 75 DEGREES C. CONDUCTORS TERMINATED ON EQUIPMENT OR DEVICES WITH A LOWER RATING (60 DEGREES C) OR NO RATING SHOWN, SHALL HAVE CONDUCTOR SIZE INCREASED TO CONFORM TO NEC TABLE 310-16 AND U.L. NO. 489 REQUIREMENTS.

9. DISCONNECT SWITCHES SHALL BE HEAVY-DUTY, QUICK-MAKE, QUICK-BREAK TYPE, NEMA 1 ENCLOSURE FOR INDOOR LOCATIONS (NEMA 3R FOR OUTDOOR LOCATIONS). SWITCHES SHALL BE AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, OR CUTLER-HAMMER. PROVIDE FUSES AS MANUFACTURED BY BUSSMAN, GUILD-SHAWMUT, OR LITTLE-FUSE. ALL CONDUCTOR TERMINALS TO BE U.L. LISTED FOR A MINIMUM OF 75 DEGREES C. SWITCHES USED AS SERVICE ENTRANCE EQUIPMENT TO BE U.L. LISTED AS "SER" RATED EQUIPMENT.

10. PANELBOARDS SHALL BE AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, CUTLER-HAMMER OR EATON CORP. MEETING U.L. STANDARDS 50 AND 67, WITH U.L. LABEL. PANELS USED AS SERVICE ENTRANCE EQUIPMENT TO BE U.L. LISTED AS "SER" RATED EQUIPMENT. BUS BARS SHALL BE COPPER.

11. BREAKERS: THERMAL MAGNETIC TYPE, QUICK-MAKE, QUICK-BREAK, BOLT-IN TYPE OF SINGLE UNIT CONSTRUCTION. TWO AND THREE POLE BREAKERS SHALL BE SINGLE UNIT COMMON TRIP TYPE. BREAKERS USED AS SWITCHES FOR 120V LIGHTING CIRCUITS SHALL BE APPROVED FOR THAT USE AND MARKED "SWD". ALL BREAKERS FOR HVAC AND REFRIGERATION EQUIPMENT SHALL BE "HACR" RATED BREAKERS.

12. CABINETS SHALL BE ONE PIECE CODE GAUGE GALVANIZED STEEL WITH MOUNTING STUDS, WIRING GUTTERS OF AMPLE SIZE AND KNOCKOUT FOR CONDUIT CONNECTIONS AS REQUIRED. BUS BARS SHALL BE 98 PER CENT CONDUCTIVE COPPER, ALUMINUM, OR COPPER-CLAD ALUMINUM. FRONTS SHALL BE ONE PIECE CODE GAUGE FURNITURE STEEL WITH ADJUSTABLE FASTENERS. PROVIDE A PLASTIC COVERED TYPEWRITTEN SCHEDULE IDENTIFYING ALL BRANCH CIRCUITS INSIDE EACH CABINET. RECESSED CABINETS TO BE INSTALLED WITH A MINIMUM (2) 3/4" SPARE CONDUITS STUBBED UP TO ACCESSIBLE CEILING SPACE.

13. GROUNDING SYSTEM: PERMANENTLY AND EFFECTIVELY GROUND ALL METALLIC CONDUIT, SUPPORTS, CABINETS, PANELBOARDS AND SYSTEM NEUTRAL CONDUCTORS. MAINTAIN CONTINUITY OF EQUIPMENT GROUND THROUGHOUT THE SYSTEM. GROUND CLAMPS SHALL BE APPROVED TYPE, SPECIFICALLY DESIGNED FOR GROUNDING. WHERE GROUNDING CONDUCTOR IS ENCLOSED IN CONDUIT, GROUND CLAMP SHALL BE OF A TYPE WHICH GROUNDS BOTH CONDUCTOR AND CONDUIT. ALL CIRCUITS INFLEXIBLE METAL OR PLASTIC CONDUIT SHALL INCLUDE A GROUND WIRE SIZED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.

14. CONDUIT SHALL BE SIZED TO COMPLY WITH NEC FOR NUMBER AND SIZE OF CONDUCTORS INSTALLED, MINIMUM 24" BELOW GRADE. PROVIDE SCHEDULE 40 PVC PLASTIC OR RIGID STEEL CONDUIT BELOW GRADE, MINIMUM 3/4". PROVIDE ELECTRICAL METAL TUBING (EMT) MEETING FS W-C563, OR FLEXIBLE CONDUIT (IN LENGTHS 6' OR LESS) FOR INTERIOR LOCATIONS. EMT CONNECTORS AND COUPLING SHALL BE SET-SCREW TYPE. CLAMP CONDUIT TO BOXES WITH BUSHING INSIDE AND LOCKNUT OUTSIDE. MC CABLE ACCEPTABLE FOR CONCEALED INSTALLATIONS.

15. ALL CONDUIT AND RACEWAY SYSTEMS TO BE INSTALLED WITH SEPARATE GROUND CONDUCTOR. CONDUIT SYSTEM IS NOT TO BE USED AS THE SOLE GROUNDING MEANS.

16. ALL SWITCHBOARDS, PANELBOARDS, DISCONNECT SWITCHES, AND CONTACTORS, SHALL BE PROVIDED WITH LUGS LABELED AND RATED FOR A MINIMUM 75 DEGREES C. SWITCHBOARDS, PANELBOARDS, DISCONNECT SWITCHES, CONTACTORS, AND TRANSFORMERS ARE TO BE "LISTED" AND "IDENTIFIED" AS RATED FOR A MINIMUM OF 75 DEGREES C CONDUCTOR TERMINATION.

17. CONDUCTORS: INSULATED SOFT ANNEALED 98 PER CENT PURE COPPER WITH COLOR CODING, B AND S GAUGE, #10 AND SMALLER TO BE SOLID, #8 AND LARGER TO BE STRANDED, MINIMUM #12 UNLESS OTHERWISE INDICATED. ALUMINUM CONDUCTOR WILL NOT BE ALLOWED. THHN MAY NOT BE USED UNDERGROUND, AT SERVICE ENTRANCE, OUTSIDE, OR IN WET LOCATIONS. ALL INSULATION TO BE RATED FOR 600 V AND TYPES AS FOLLOWS:

18. #10 AND SMALLER: THWN OR THHN
#8 TO #4/0: THWN OR THHN
SERVICE ENTRANCE: USE-RHW
OVER #4/0 ORDINARY SERVICE: THHN OR XHHN
OVER #4/0 WET OR HOT SERVICE: XHHW
WIRE THRU FLUORESCENT FIXTURES OR WITHIN 3' OF HEATING EQUIPMENT: THHN

19. DEVICES SHALL BE MANUFACTURED BY LEVITON "COMMERCIAL SPECIFICATION GRADE" OR EQUAL. ALL DEVICES AND COVER PLATES SHALL BE WHITE. STANDARD DUPLEX RECEPTACLES SHALL BE GROUNDING TYPE, 20A, NEMA WD-2 STANDARD 5-20R, SIDE WIRED, LEVITON #5342. LIGHT SWITCHES SHALL BE 20 AMP, 120 VOLT, LEVITON #1221-2. WHERE SWITCHES ARE GROUPED, PROVIDE GANG PLATES.

20. LIGHT FIXTURES AND LAMPS ARE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR ACCORDING TO U.B.C. STANDARDS.

21. THE ELECTRICAL CONTRACTOR SHALL REVIEW MATERIALS AT THE TIME OF DELIVERY AND IMMEDIATELY REPORT ANY DAMAGE OR MISSING PIECES.

22. EMERGENCY LIGHTING SHALL HAVE A MINIMUM OF 90 MIN. BATTERY BACK-UP, OR AS REQUIRED BY LOCAL CODE AUTHORITY.

23. LAYOUT BRANCH CIRCUIT WIRING AND ARRANGEMENT OF HOME RUNS FOR MAXIMUM ECONOMY AND EFFICIENCY. INCREASE WIRE SIZE IF VOLTAGE DROP EXCEEDS 3 PER CENT OR 100 FEET OF LENGTH.

24. CONCEAL WIRING SYSTEM ABOVE SUSPENDED CEILINGS OR IN WALL OR FLOOR CONSTRUCTION WHERE POSSIBLE. INSTALL CONDUITS PARALLEL TO BUILDING LINES, AND TO CLEAR ALL OPENING, DEPRESSIONS, PIPES, DUCTS, STRUCTURE, ETC.

25. FIRE ALARM SYSTEM SHALL BE AN ADDRESSABLE SYSTEM, MULTIPLEXED SIGNAL TRANSMISSION, DEDICATED TO FIRE-ALARM SERVICE ONLY. INSTALLER SHALL BE NICET CERTIFIED. A UL LISTED SYSTEM FROM ONE OF THE FOLLOWING MANUFACTURER'S SHALL BE UTILIZED:

26. NOTIFIER: A HONEYWELL COMPANY
GAMEWELL: A HONEYWELL COMPANY
SILENT KNIGHT: A HONEYWELL COMPANY
SIMPLEX GRINNELL: A TYCO COMPANY
SIEMENS BUILDING TECHNOLOGIES, FIRE SAFETY DIVISION
FEDERAL SIGNAL CORPORATION

27. ADJUSTING AND TESTING: ALL ELECTRICAL EQUIPMENT SHALL BE ADJUSTED AND TESTED FOR PROPER OPERATION. COMPLETED WIRING SYSTEM SHALL BE FREE FROM SHORT CIRCUITS.

28. TOUCH-UP OR REFINISH DAMAGED SURFACES OF FIXTURES AND EQUIPMENT, EXPOSED TO VIEW.

29. TELEPHONE CABLE TO BE FURNISHED AND INSTALLED BY OTHERS. ALL CABLING TO BE PLENUM RATED. ELECTRICAL CONTRACTOR TO PROVIDE NEW PLYWOOD BACKBOARD FOR NEW TELEPHONE TERMINAL BOARD. COORDINATE EXACT REQUIREMENTS WITH LOCAL TELEPHONE UTILITY REPRESENTATIVE AND OWNER.

30. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHTING FIXTURES AND OTHER CEILING MOUNTED EQUIPMENT.

31. FOR EQUIPMENT FURNISHED BY OWNER OR OTHER CONTRACTORS: ELECTRICAL CONTRACTOR TO VERIFY EXACT LOAD, TYPE OF CONNECTION AND MOUNTING HEIGHT FOR EACH BOX OR EQUIPMENT ITEM TO BE INSTALLED. ALL HARD-WIRED CONNECTIONS TO EQUIPMENT TO BE MADE WITH FLEXIBLE LIQUID-TITE METAL CONDUIT WITH GREEN GROUND CONDUCTOR INSTALLED INSIDE RACEWAY. GROUND CONDUCTOR TO BE BONDED AT BOTH ENDS.

32. CONTACTORS SHALL BE SQUARE D, CLASS 8903 AS SHOWN ON THE PLANS, ELECTRICALLY OR MECHANICALLY HELD, DESIGNED FOR TWO-WIRE CNTRL CIRCUIT, FULLY RATED FOR ALL CLASSES OF INDUCTIVE AND NON-INDUCTIVE LOADS, AND RATED FOR CONTINUOUS CAPACITY AND POWER CIRCUIT VOLTAGE NOT LESS THAN INDICATED ON DRAWINGS. PROVIDE WITH NUMBER OF POLES INDICATED OR SPECIFIED. CONTACTORS SHALL BE FURNISHED WITH NEMA 1, SURFACE MOUNTED ENCLOSURES UNLESS CALLED FOR OTHERWISE ON DRAWINGS. EACH CONTACTOR SHALL BE PROVIDED WITH ENGRAVED LAMINATED PLASTIC NAMEPLATE WITH BLACK BACKGROUND AND 1/4" WHITE LETTERS TO DESIGNATE USE OF CONTACTOR.

33. FIRE ALARM SYSTEM SHALL BE AN ADDRESSABLE SYSTEM, MULTIPLEXED SIGNAL TRANSMISSION, DEDICATED TO FIRE-ALARM SERVICE ONLY. INSTALLER SHALL BE NICET CERTIFIED. A UL LISTED SYSTEM FROM ONE OF THE FOLLOWING MANUFACTURER'S SHALL BE UTILIZED:

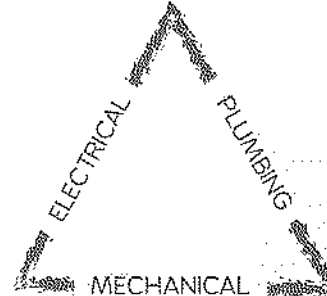
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SIEMENS BUILDING TECHNOLOGIES, FIRE SAFETY DIVISION
FEDERAL SIGNAL CORPORATION

35. ALL GFCI PROTECTIVE DEVICES SHALL BE READILY ACCESSIBLE AS IDENTIFIED IN NEC 2020

WIRE SIZING SCHEDULE SINGLE PHASE	
CIRCUIT BREAKER	COPPER WIRE SIZE (INCLUDES NEUTRAL)
20 AMP	(3) 12, #12GR., 1/2"C.
25 AMP	(3) 10, #10GR., 1/2"C.
30 AMP	(3)10, #10GR., 3/4"C.
35 AMP	(3) 8, #10GR., 3/4"C.
40 AMP	(3) 8, #10GR., 3/4"C.
45 AMP	(3) 6, #10GR., 1"C.
50 AMP	(3) 6, #10GR., 1"C.
55 AMP	(3) 6, #10GR., 1"C.
60 AMP	(3) 4, #10GR., 1-1/4"C.
65 AMP	(3) 4, #8GR., 1-1/4"C.
70 AMP	(3) 4, #8GR., 1-1/4"C.
80 AMP	(3) 3, #8GR., 1-1/4"C.
90 AMP	(3) 2, #8GR., 1-1/4"C.
100 AMP	(2) 2, #8GR., 1-1/4"C.
125 AMP	(3) 1, #8GR., 1-1/2"C.
150 AMP	(3) 1/0, #6GR., 2"C.
200 AMP	(3) 3/0, #6GR., 2"C.
225 AMP	(3) 4/0, #4GR., 2-1/2"C.
250 AMP	(3) 250KCM, #4GR., 2-1/2"C.
400 AMP	(3) 600KCM, #3GR., 3-1/2"C.

WIRE SIZING SCHEDULE THREE PHASE	
CIRCUIT BREAKER	COPPER WIRE SIZE (INCLUDES NEUTRAL)
20 AMP	(4) 12, #12GR., 1/2"C.
25 AMP	(4) 10, #10GR., 1/2"C.
30 AMP	(4) 10, #10GR., 3/4"C.
35 AMP	(4) 8, #10GR., 3/4"C.
40 AMP	(4) 8, #10GR., 3/4"C.
45 AMP	(4) 6, #10GR., 1"C.
50 AMP	(4) 6, #10GR., 1"C.
55 AMP	(4) 6, #10GR., 1"C.
60 AMP	(4) 4, #10GR., 1-1/4"C.
65 AMP	(4) 4, #8GR., 1-1/4"C.
70 AMP	(4) 4, #8GR., 1-1/4"C.
80 AMP	(4) 3, #8GR., 1-1/4"C.
90 AMP	(4) 2, #8GR., 1-1/4"C.
100 AMP	(4) 2, #8GR., 1-1/4"C.
125 AMP	(4) 1, #8GR., 1-1/2"C.
150 AMP	(4) 1/0, #6GR., 2"C.
200 AMP	(4) 3/0, #6GR., 2"C.
225 AMP	(4) 4/0, #4GR., 2-1/2"C.
250 AMP	(4) 250KCM, #4GR., 2-1/2"C.
400 AMP	(4) 600KCM, #3GR., 3-1/2"C.

NOTES
CONTRACTOR TO INCREASE WIRE SIZING FOR LONG RUNS OF WIRING FOR VOLTAGE DROP ALLOWANCE. VOLTAGE DRAP SHALL NOT EXCEED 3 PERCENT



TRIOLOGY
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TBPE # F-14307
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NO.	REVISION	BY	DATE

CITY OF WACO
4TH STREET PEDESTRIAN IMPROVEMENTS

DESIGN: 2318
DRAWN: AH
REVIEW: BK
CP&Y:
CLIENT:

SHEET
E1.1

PANELBOARD NO: A																
SECTION: 1 OF 1				VOLTAGE: 240/120				ENGINEER: Brad Kroll P.E.								
MOUNTING: SURFACE				PHASE: 3				BUS: 200								
POLES: 12				WIRE: 3				MAIN: 200 M.C.B								
LOCATION: ELECT. CLOSET				GROUND BUS: YES				INTERRUPTING RATING:								
				200% NEUTRAL: NO				ELECTRONIC GRADE PANEL: NO								
								ISOLATED GROUND BUS: NO								
CKT NO.	DESCRIPTION	LOAD (VA)				CIRCUIT BREAKER		1	CIRCUIT BREAKER		LOAD (VA)				DESCRIPTION	CKT NO.
		LTS	REC	MECH	MISC	AMPS	POLES		AMPS	POLES	LTS	REC	MECH	MISC		
1	MAIN BREAKER					60	2	A		20	1					2
3								B		20	1					4
5	LIGHTING CONTROL	500				20	1	A		20	1					6
7	EQUIPMENT RECP.		180			20	1	B		20	1					8
9	LIGHTING	975				20	1	A		20	1					10
11	IRRIGATION		500			20	1	B		20	1					12

PANELBOARD NO:

A

Note: * Indicates circuit breaker shall be GFCI

NOTE 1: PROVIDE 'LOCK ON' DEVICE FOR C.B.

SUBTOTAL CONNECTED KVA	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	SUBTOTAL CONNECTED KVA	0.0
						1.5	0.7	0.0				TOTAL CONNECTED KVA	0.0

PHASE BALANCE								LOAD SUMMARY & FEEDER CALCULATION							
	LTS	REC	MECH	MISC	TOTAL	% DIF		LTS	REC	MECH	MISC	SUBTOT	SPARE	TOTAL	
PHASE A CONNECTED KVA	1.5	0.0	0.0	0.0	1.5	105.3		1.5	0.0	0.0	0.0	2.2	0		CONNECTED KVA
PHASE B CONNECTED KVA	0.0	0.7	0.0	0.0	0.7	-5.3		1.0	0.0	0.0	0.0	2.2	0		DEMAND FACTOR
AVERAGE PHASE CONNECTED KVA					0.7			1.5	0.7	0.0	0.0	2.2	0.0		DEMAND KVA
								1.25	1.0	1.0	1.0	1.0			DEMAND AMPS
															CONTINUOUS / NON-CONTINUOUS FACTOR
															0.80
															ADJUSTMENT FACTOR
															1.00
															CORRECTION FACTOR (OTHER THAN 30 DEG C)
															10.5
															MIN. OVERCURRENT DEVICE AMPS
															10.5
															MIN. COND. AMPS PER TERMINATION RATING
															11.2
															MIN. COND. AMPS PER INSULATION RATING

LIGHT FIXTURE TYPE "A"

Submitted by HOSSLEY LPS
Job Name: _____ Catalog Number: _____ Type: 3.29
Notes: _____

A850-VCOB OLD TOWN SERIES

Mounting Configuration: _____
 • 2A • 2A90 • 2A91 • 2A92 • 2A93 • 2A94 • 2A95 • 2A96 • 2A97 • 2A98 • 2A99 • 2A100 • 2A101 • 2A102 • 2A103 • 2A104 • 2A105 • 2A106 • 2A107 • 2A108 • 2A109 • 2A110 • 2A111 • 2A112 • 2A113 • 2A114 • 2A115 • 2A116 • 2A117 • 2A118 • 2A119 • 2A120 • 2A121 • 2A122 • 2A123 • 2A124 • 2A125 • 2A126 • 2A127 • 2A128 • 2A129 • 2A130 • 2A131 • 2A132 • 2A133 • 2A134 • 2A135 • 2A136 • 2A137 • 2A138 • 2A139 • 2A140 • 2A141 • 2A142 • 2A143 • 2A144 • 2A145 • 2A146 • 2A147 • 2A148 • 2A149 • 2A150 • 2A151 • 2A152 • 2A153 • 2A154 • 2A155 • 2A156 • 2A157 • 2A158 • 2A159 • 2A160 • 2A161 • 2A162 • 2A163 • 2A164 • 2A165 • 2A166 • 2A167 • 2A168 • 2A169 • 2A170 • 2A171 • 2A172 • 2A173 • 2A174 • 2A175 • 2A176 • 2A177 • 2A178 • 2A179 • 2A180 • 2A181 • 2A182 • 2A183 • 2A184 • 2A185 • 2A186 • 2A187 • 2A188 • 2A189 • 2A190 • 2A191 • 2A192 • 2A193 • 2A194 • 2A195 • 2A196 • 2A197 • 2A198 • 2A199 • 2A200 • 2A201 • 2A202 • 2A203 • 2A204 • 2A205 • 2A206 • 2A207 • 2A208 • 2A209 • 2A210 • 2A211 • 2A212 • 2A213 • 2A214 • 2A215 • 2A216 • 2A217 • 2A218 • 2A219 • 2A220 • 2A221 • 2A222 • 2A223 • 2A224 • 2A225 • 2A226 • 2A227 • 2A228 • 2A229 • 2A230 • 2A231 • 2A232 • 2A233 • 2A234 • 2A235 • 2A236 • 2A237 • 2A238 • 2A239 • 2A240 • 2A241 • 2A242 • 2A243 • 2A244 • 2A245 • 2A246 • 2A247 • 2A248 • 2A249 • 2A250 • 2A251 • 2A252 • 2A253 • 2A254 • 2A255 • 2A256 • 2A257 • 2A258 • 2A259 • 2A260 • 2A261 • 2A262 • 2A263 • 2A264 • 2A265 • 2A266 • 2A267 • 2A268 • 2A269 • 2A270 • 2A271 • 2A272 • 2A273 • 2A274 • 2A275 • 2A276 • 2A277 • 2A278 • 2A279 • 2A280 • 2A281 • 2A282 • 2A283 • 2A284 • 2A285 • 2A286 • 2A287 • 2A288 • 2A289 • 2A290 • 2A291 • 2A292 • 2A293 • 2A294 • 2A295 • 2A296 • 2A297 • 2A298 • 2A299 • 2A300 • 2A301 • 2A302 • 2A303 • 2A304 • 2A305 • 2A306 • 2A307 • 2A308 • 2A309 • 2A310 • 2A311 • 2A312 • 2A313 • 2A314 • 2A315 • 2A316 • 2A317 • 2A318 • 2A319 • 2A320 • 2A321 • 2A322 • 2A323 • 2A324 • 2A325 • 2A326 • 2A327 • 2A328 • 2A329 • 2A330 • 2A331 • 2A332 • 2A333 • 2A334 • 2A335 • 2A336 • 2A337 • 2A338 • 2A339 • 2A340 • 2A341 • 2A342 • 2A343 • 2A344 • 2A345 • 2A346 • 2A347 • 2A348 • 2A349 • 2A350 • 2A351 • 2A352 • 2A353 • 2A354 • 2A355 • 2A356 • 2A357 • 2A358 • 2A359 • 2A360 • 2A361 • 2A362 • 2A363 • 2A364 • 2A365 • 2A366 • 2A367 • 2A368 • 2A369 • 2A370 • 2A371 • 2A372 • 2A373 • 2A374 • 2A375 • 2A376 • 2A377 • 2A378 • 2A379 • 2A380 • 2A381 • 2A382 • 2A383 • 2A384 • 2A385 • 2A386 • 2A387 • 2A388 • 2A389 • 2A390 • 2A391 • 2A392 • 2A393 • 2A394 • 2A395 • 2A396 • 2A397 • 2A398 • 2A399 • 2A400 • 2A401 • 2A402 • 2A403 • 2A404 • 2A405 • 2A406 • 2A407 • 2A408 • 2A409 • 2A410 • 2A411 • 2A412 • 2A413 • 2A414 • 2A415 • 2A416 • 2A417 • 2A418 • 2A419 • 2A420 • 2A421 • 2A422 • 2A423 • 2A424 • 2A425 • 2A426 • 2A427 • 2A428 • 2A429 • 2A430 • 2A431 • 2A432 • 2A433 • 2A434 • 2A435 • 2A436 • 2A437 • 2A438 • 2A439 • 2A440 • 2A441 • 2A442 • 2A443 • 2A444 • 2A445 • 2A446 • 2A447 • 2A448 • 2A449 • 2A450 • 2A451 • 2A452 • 2A453 • 2A454 • 2A455 • 2A456 • 2A457 • 2A458 • 2A459 • 2A460 • 2A461 • 2A462 • 2A463 • 2A464 • 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2A590 • 2A591 • 2A592 • 2A593 • 2A594 • 2A595 • 2A596 • 2A597 • 2A598 • 2A599 • 2A600 • 2A601 • 2A602 • 2A603 • 2A604 • 2A605 • 2A606 • 2A607 • 2A608 • 2A609 • 2A610 • 2A611 • 2A612 • 2A613 • 2A614 • 2A615 • 2A616 • 2A617 • 2A618 • 2A619 • 2A620 • 2A621 • 2A622 • 2A623 • 2A624 • 2A625 • 2A626 • 2A627 • 2A628 • 2A629 • 2A630 • 2A631 • 2A632 • 2A633 • 2A634 • 2A635 • 2A636 • 2A637 • 2A638 • 2A639 • 2A640 • 2A641 • 2A642 • 2A643 • 2A644 • 2A645 • 2A646 • 2A647 • 2A648 • 2A649 • 2A650 • 2A651 • 2A652 • 2A653 • 2A654 • 2A655 • 2A656 • 2A657 • 2A658 • 2A659 • 2A660 • 2A661 • 2A662 • 2A663 • 2A664 • 2A665 • 2A666 • 2A667 • 2A668 • 2A669 • 2A670 • 2A671 • 2A672 • 2A673 • 2A674 • 2A675 • 2A676 • 2A677 • 2A678 • 2A679 • 2A680 • 2A681 • 2A682 • 2A683 • 2A684 • 2A685 • 2A686 • 2A687 • 2A688 • 2A689 • 2A690 • 2A691 • 2A692 • 2A693 • 2A694 • 2A695 • 2A696 • 2A697 • 2A698 • 2A699 • 2A700 • 2A701 • 2A702 • 2A703 • 2A704 • 2A705 • 2A706 • 2A707 • 2A708 • 2A709 • 2A710 • 2A711 • 2A712 • 2A713 • 2A714 • 2A715 • 2A716 • 2A717 • 2A718 • 2A719 • 2A720 • 2A721 • 2A722 • 2A723 • 2A724 • 2A725 • 2A726 • 2A727 • 2A728 • 2A729 • 2A730 • 2A731 • 2A732 • 2A733 • 2A734 • 2A735 • 2A736 • 2A737 • 2A738 • 2A739 • 2A740 • 2A741 • 2A742 • 2A743 • 2A744 • 2A745 • 2A746 • 2A747 • 2A748 • 2A749 • 2A750 • 2A751 • 2A752 • 2A753 • 2A754 • 2A755 • 2A756 • 2A757 • 2A758 • 2A759 • 2A760 • 2A761 • 2A762 • 2A763 • 2A764 • 2A765 • 2A766 • 2A767 • 2A768 • 2A769 • 2A770 • 2A771 • 2A772 • 2A773 • 2A774 • 2A775 • 2A776 • 2A777 • 2A778 • 2A779 • 2A780 • 2A781 • 2A782 • 2A783 • 2A784 • 2A785 • 2A786 • 2A787 • 2A788 • 2A789 • 2A790 • 2A791 • 2A792 • 2A793 • 2A794 • 2A795 • 2A796 • 2A797 • 2A798 • 2A799 • 2A800 • 2A801 • 2A802 • 2A803 • 2A804 • 2A805 • 2A806 • 2A807 • 2A808 • 2A809 • 2A810 • 2A811 • 2A812 • 2A813 • 2A814 • 2A815 • 2A816 • 2A817 • 2A818 • 2A819 • 2A820 • 2A821 • 2A822 • 2A823 • 2A824 • 2A825 • 2A826 • 2A827 • 2A828 • 2A829 • 2A830 • 2A831 • 2A832 • 2A833 • 2A834 • 2A835 • 2A836 • 2A837 • 2A838 • 2A839 • 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2A1080 • 2A1081 • 2A1082 • 2A1083 • 2A1084 • 2A1085 • 2A1086 • 2A1087 • 2A1088 • 2A1089 • 2A1090 • 2A1091 • 2A1092 • 2A1093 • 2A1094 • 2A1095 • 2A1096 • 2A1097 • 2A1098 • 2A1099 • 2A1100 • 2A1101 • 2A1102 • 2A1103 • 2A1104 • 2A1105 • 2A1106 • 2A1107 • 2A1108 • 2A1109 • 2A1110 • 2A1111 • 2A1112 • 2A1113 • 2A1114 • 2A1115 • 2A1116 • 2A1117 • 2A1118 • 2A1119 • 2A1120 • 2A1121 • 2A1122 • 2A1123 • 2A1124 • 2A1125 • 2A1126 • 2A1127 • 2A1128 • 2A1129 • 2A1130 • 2A1131 • 2A1132 • 2A1133 • 2A1134 • 2A1135 • 2A1136 • 2A1137 • 2A1138 • 2A1139 • 2A1140 • 2A1141 • 2A1142 • 2A1143 • 2A1144 • 2A1145 • 2A1146 • 2A1147 • 2A1148 • 2A1149 • 2A1150 • 2A1151 • 2A1152 • 2A1153 • 2A1154 • 2A1155 • 2A1156 • 2A1157 • 2A1158 • 2A1159 • 2A1160 • 2A1161 • 2A1162 • 2A1163 • 2A1164 • 2A1165 • 2A1166 • 2A1167 • 2A1168 • 2A1169 • 2A1170 • 2A1171 • 2A1172 • 2A1173 • 2A1174 • 2A1175 • 2A1176 • 2A1177 • 2A1178 • 2A1179 • 2A1180 • 2A1181 • 2A1182 • 2A1183 • 2A1184 • 2A1185 • 2A1186 • 2A1187 • 2A1188 • 2A1189 • 2A1190 • 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2A1302 • 2A1303 • 2A1304 • 2

1.0 LIGHTING POLES AND FIXTURES:
THE LIGHTING POLES FURNISHED FOR MOUNTING LUMINAIRES SHALL BE FREE FROM IMPERFECTIONS AND PRESENT A PLEASING APPEARANCE WHEN PLUMBED AND SECURED TO THE FOUNDATION. THE FINISHED POLE SHALL HAVE A SMOOTH UNIFORM FINISH FREE FROM PITTS, SCRATCHES, BLISTERS OR OTHER DEFECTS. EACH SHAFT SHALL HAVE A REMOVABLE POLE CAP. THE MOUNTING LIGHT SHALL BE AS SPECIFIED PER POLE TYPE. ALL FIXTURES SHALL NOT REQUIRE INDIVIDUAL PHOTOCELLS OR PHOTOCELL SOCKETS. ALL POLES SHALL NOT HAVE FACTORY INSTALLED FUSE HOLDERS, BUT SHALL HAVE EXTERNAL FUSE HOLDERS INSTALLED AT THE BASE OF EACH POLE. ALL ANTIQUE LIGHT POLES AND FIXTURES SHALL HAVE A POWDER COAT PAINT FINISH.

THE ANTIQUE LIGHT POLE AND FIXTURE MANUFACTURE AND PART NUMBER:

MANUFACTURE: ANTIQUE STREET LIGHTING CO.
POLE PART NUMBER: #PI C17 14A DGRH
FIXTURE PART NUMBER: #A25 W INC MOG ACT 120 DGRH
COLOR CODE: POWDER COAT PAINT COLOR DGRH = # RAL 6012 (BLACK GREEN)
LAMP: PRUF 35W (#211-03) (120-277 V) DAY WHITE

THE SHOE BOX TYPE LIGHT POLE AND FIXTURE MANUFACTURE PART NUMBER:

COLOR CODE: POWDER COAT PAINT COLOR # RAL 8019 (BLACK GREEN)

POLE MANUFACTURE: KW POLE OR APPROVAL EQUAL
POLE PART NUMBER: SINGLE FIXTURE #SSP30-6.0-7-BRZ DM10 WITH 2 IN. X 12 IN. HORIZONTAL
PIPE TENON MOUNT

FIXTURE MANUFACTURE: DURALIGHT OR APPROVED EQUAL*

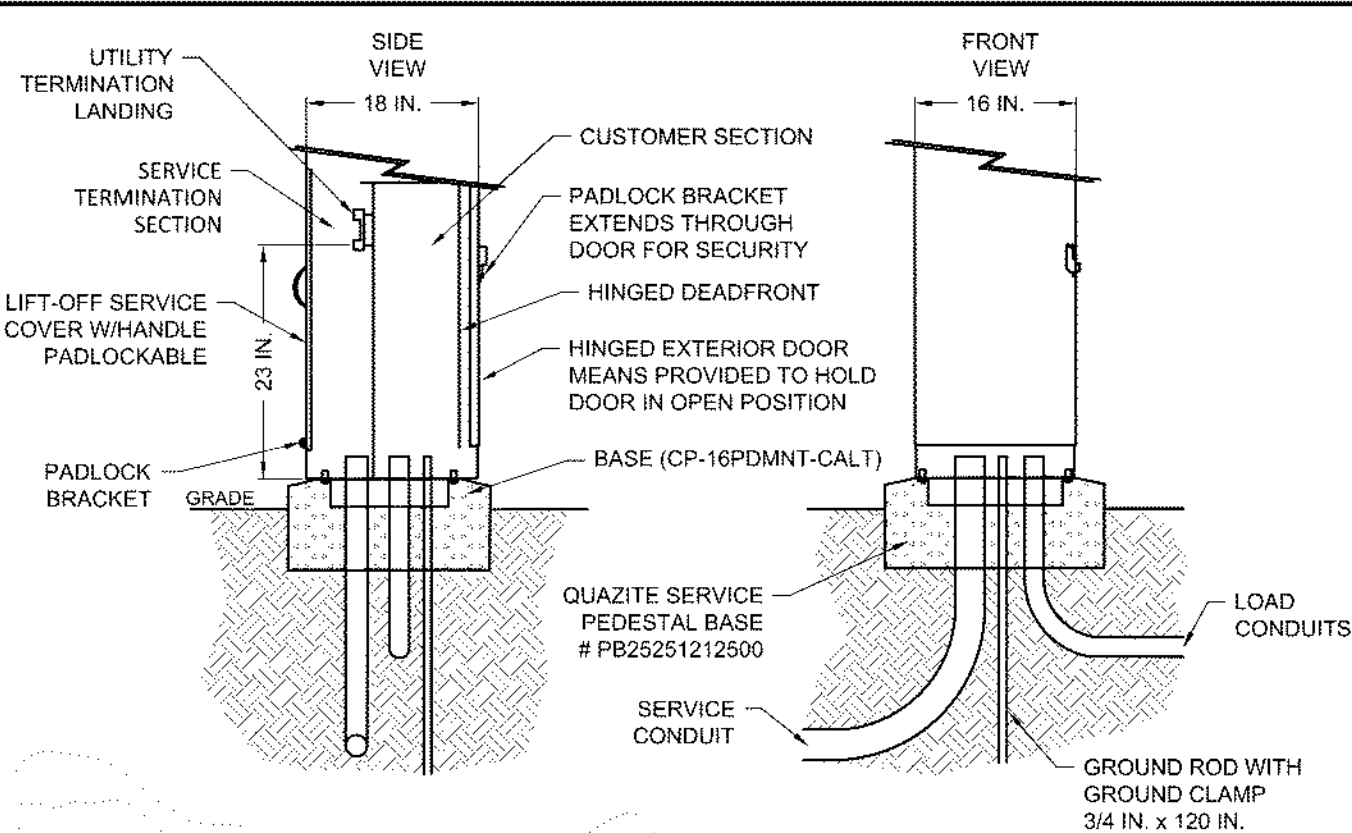
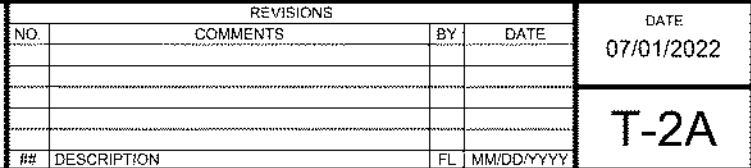
FIXTURE PART NUMBER: # JXM-ST110 - LED COBRA HEAD, 120-277 VOLT
 # JXM-ST110 - LED COBRA HEAD, 480 VOLT

- * FIXTURES MUST HAVE BEEN OR BE SUBMITTED TO CITY OF WACO FOR INFIELD TESTING.
TESTED AND APPROVED LIGHTS LISTED IN SECTION 1.1.
** ORIGINAL TESTED FIXTURES WERE LED ILLUMINATION 150W, 225W, CURRENT EQUIVALENT

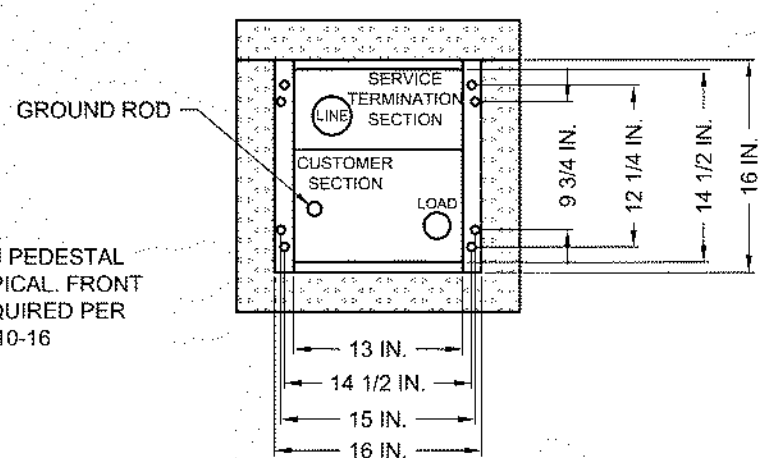
<u>250W EQUIVALENT:</u>	<u>400W EQUIVALENT:</u>
EOI 150W (#ESL-02A011S15065A)	DURALIGHT 180W (#JXM-ST180)
PRUF 112W (#230-01)**	PRUF 168W (#240-01)**
LEOTEK 109W (#SL-250WLM3-FX)	LEOTEK 166W (#SL-400WLM3-FX)

FOUR HIGH STRENGTH 1 IN. STEEL ANCHOR BOLTS SHALL BE FURNISHED WITH EACH POLE. ANCHOR BOLTS SHALL BE FABRICATED FROM A GOOD COMMERCIAL QUALITY HOT ROLLED CARBON STEEL BAR WITH MINIMUM YIELD STRENGTH OF 50,000 PSI. EACH ANCHOR BOLT SHALL BE THREADED AT THE TOP AND THE BOTTOM ENDS OF THE BOLT. THE THREADED LENGTH OF THE BOLT SHALL BE 8 INCHES. THE ANCHOR BOLTS SHALL BE OF SUFFICIENT LENGTH AND DIAMETER TO DEVELOP THE FULL STRENGTH OF THE SHAFT. THE THREADED END OF THE BOLT SHALL BE GALVANIZED A MINIMUM LENGTH OF 8 IN. FROM THE THREADED END WITH A MINIMUM THREADED LENGTH OF 6 IN. ALL NECESSARY ANCHOR BOLTS AND TEMPLATES FOR SETTING ANCHOR BOLTS SHALL BE FURNISHED IMMEDIATELY AFTER AWARD OF THE CONTRACT. REQUIRED DELIVERY DATES OF THE POLES. ADDITIONAL HARDWARE SHALL BE PROVIDED AND MAY BE DELIVERED WITH THE POLES.

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.



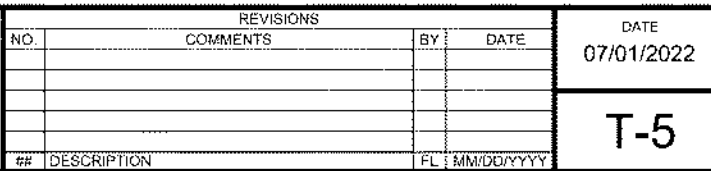
TYPICAL CONSTRUCTION & INSTALLATION DETAILS



MOUNTING BASE DETAIL TOP VIEW

CP3B IN.ML IN. SERIES
(NO SCALE)

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.



3.0 PHOTOELECTRIC CONTROL:
THE PHOTOELECTRIC CELLS SHALL BE TWIST PLUG IN TYPE PRECISION BRAND TO MATCH FIXTURE OR CONTACTOR VOLTAGE.

ELECTRICAL SERVICE EQUIPMENT SHALL INCLUDE, BUT NOT BE LIMITED TO: METERED SERVICE/DISCONNECT OR CONTACTOR ENCLOSURE. ALL ENCLOSURES HOUSING ELECTRICAL EQUIPMENT SHALL BE RAIN-TIGHT, INCLUDE A PADLOCK HANDLE, AND DESIGNED FOR OUTDOOR INSTALLATION IN ACCORDANCE WITH THE LIGHTING FIXTURES AND ELECTRICAL CODES. ALL ELECTRICAL SERVICE SHALL BE APPLICABLE PROVISIONS OF THE NATIONAL ELECTRICAL SAFETY CODE AND NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION SPECIFICATIONS. A STANDALONE, PEDESTAL TYPE COMBINATION METERED SERVICE/DISCONNECT/CONTACTOR CONTROL PANEL SHALL BE USED. THE PEDESTAL TYPE METER SERVICE MAY BE MOUNTED TO A CONCRETE PAD, THOUGH A PRECAST CONCRETE PAD BASE IS RECOMMENDED. RECOMMENDED PAD DIMENSIONS SHALL BE 24" X 24" X 2" MIN. VOLTAGE, IF NOT AVAILABLE, AN OPTIONAL SERVICE VOLTAGE MAY BE ACCEPTABLE IF APPROVED BY CITY STAFF. EACH SERVICE POINT SHALL INCLUDE INDIVIDUAL CIRCUIT BREAKERS AND PHOTOCELL CONTROLLED CONTACTORS), AND A HOA SWITCH FOR CONTROL OF THE LIGHTING CIRCUITS). METER SERVICES SHALL BE EQUIPPED AND FEEDS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL SAFETY CODE. ALL ELECTRICAL SERVICE SHALL BE MANUFACTURED STANDARD LIGHT OR MINT GREEN. ELECTRIC METER, APPLICATION FOR SERVICE WILL BE MADE BY CITY STAFF. THE COLOR OF ELECTRICAL SERVICE EQUIPMENT SHALL BE MANUFACTURE STANDARD LIGHT OR MINT GREEN.

RECOMMENDED, ONCOR APPROVED, SERVICE PEDESTALS ARE MILBANK BRAND.

ALL ELECTRICAL WIRE SHALL BE STRANDED COPPER CONDUCTOR. EARTH GROUND SHALL BE STRANDED COPPER CONDUCTOR WITH GREEN INSULATION. ALL WIRE SHALL BE OF ADEQUATE SIZE TO ACCOMMODATE LIGHTING LOAD. ALL SPLICES SHALL BE MADE INSIDE THE POLE. MINIMUM CONDUCTOR SIZE SHALL BE 10 AWG.

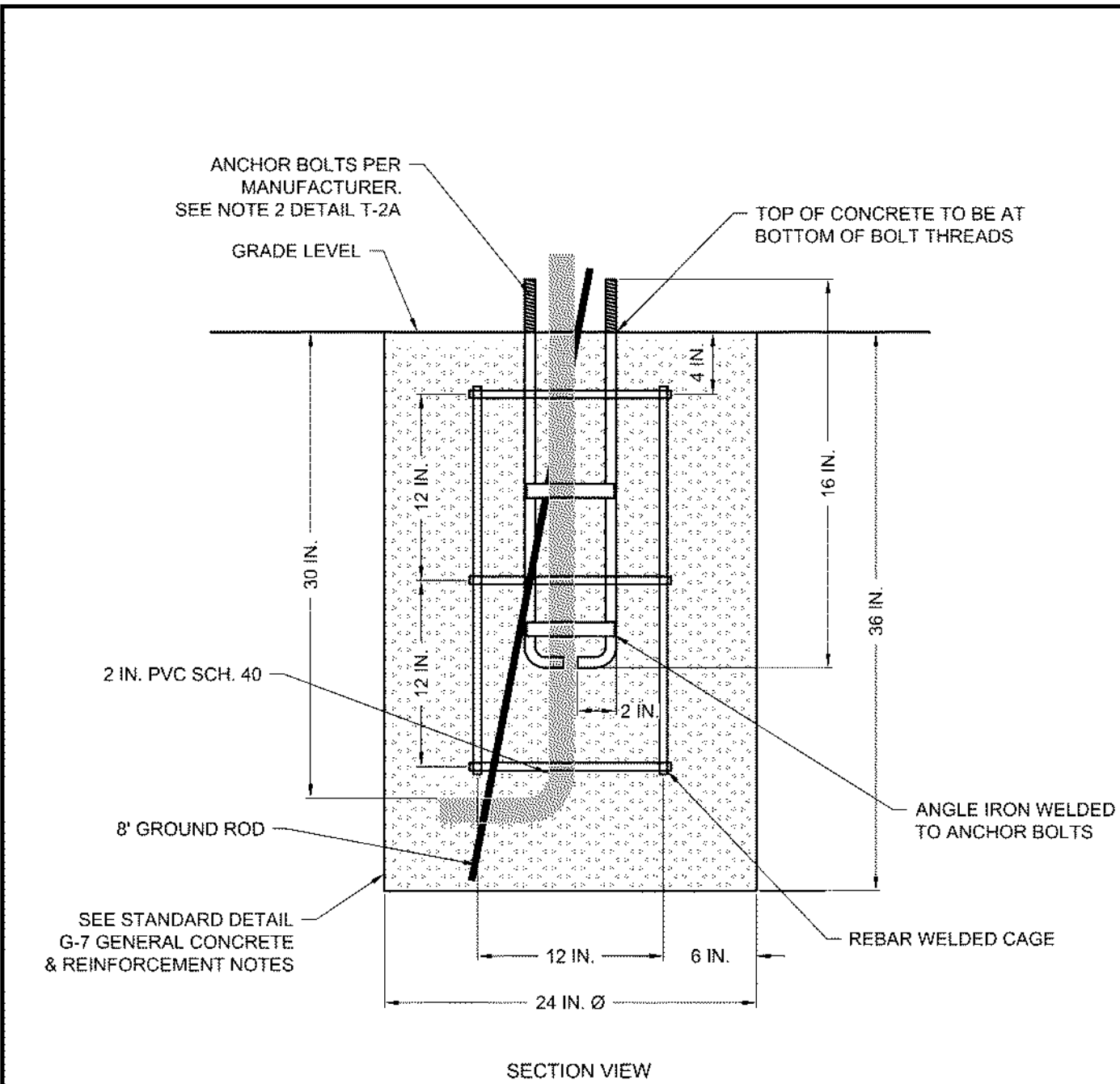
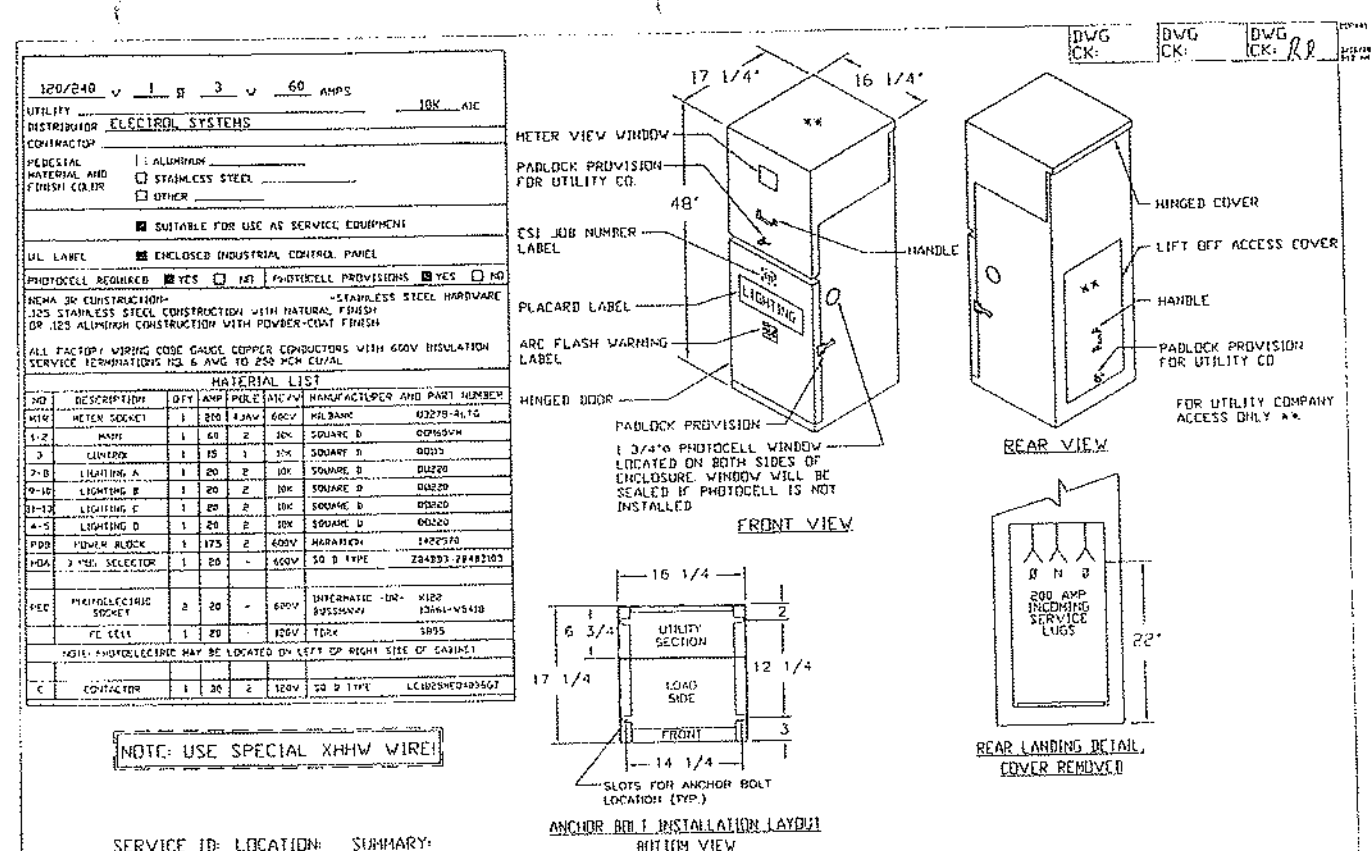
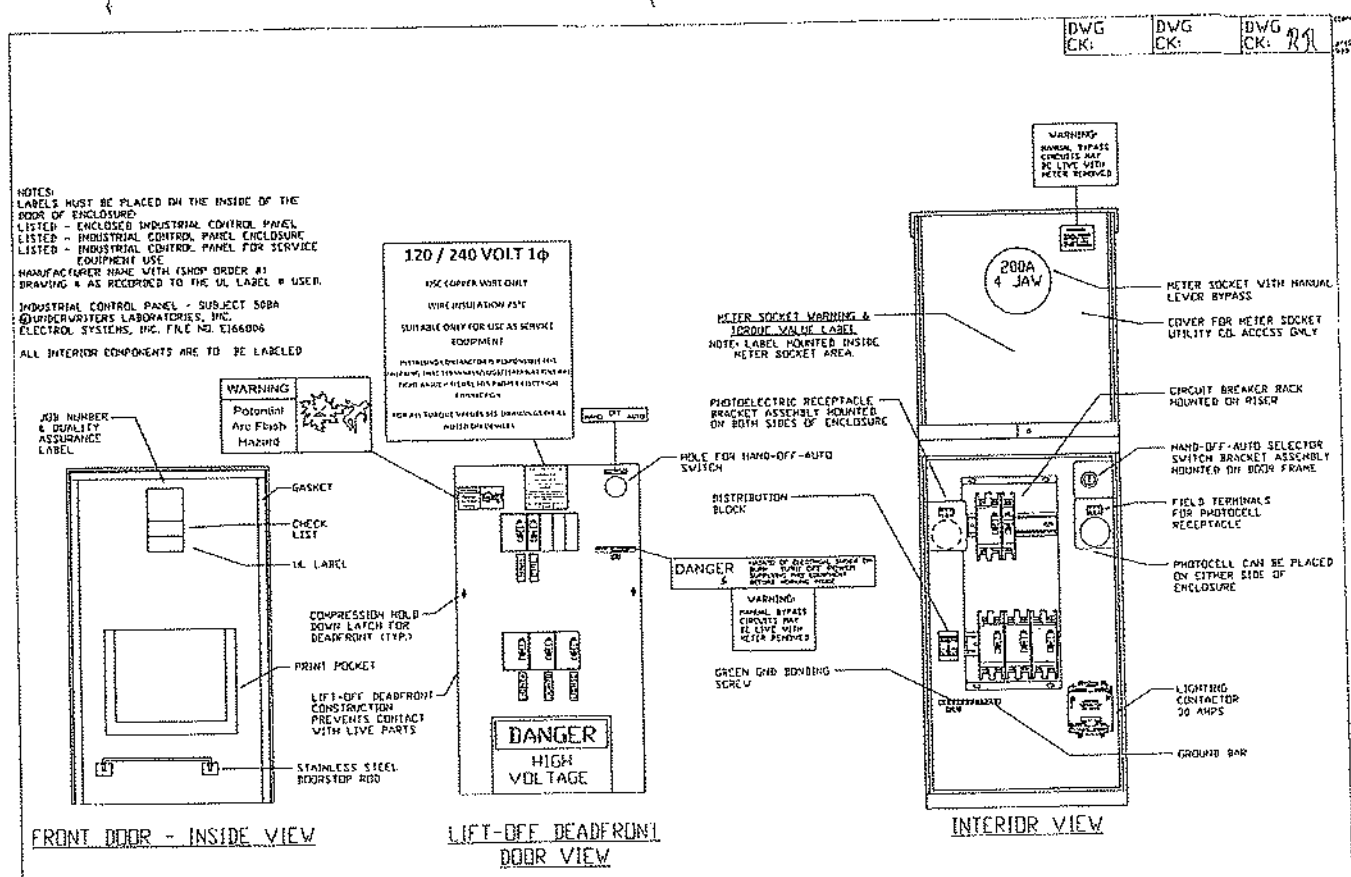
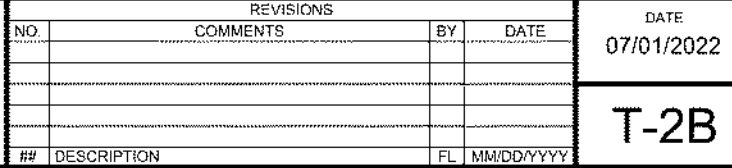
SEE STANDARD DETAIL G-7 GENERAL CONCRETE AND REINFORCEMENT NOTES

ALL FOUNDATION BASES SHALL BE (24) TWENTY-FOUR INCHES IN DIAMETER. TOP OF BASES SHALL EXTEND (6) SIX INCHES ABOVE GRADE. TOP OF FOUNDATION SHALL HAVE A 1 IN. CHAMFER. STEEL REBAR SHALL BE USED TO FOR CONCRETE REINFORCEMENT THROUGHOUT THE ENTIRE BASE. ALL FOUNDATIONS SHALL HAVE A MINIMUM OF TWO (2) IN. PVC CONDUITS INSTALLED. FOUNDATION SHALL BE POSITIONED WITH OUTSIDE EDGE A MINIMUM OF 2 FT. FROM BACK OF CURB.

- FOR AREA LIGHTING POLES IN EXCESS OF (18) EIGHTEEN FEET IN HEIGHT, BASES SHALL EXTEND A MINIMUM OF (6) SIX FEET BELOW GRADE.
- FOR DECORATIVE POLES NOT TO EXCEED (18) EIGHTEEN FEET, BASES SHALL EXTEND A MINIMUM OF (3) THREE FEET BELOW GRADE.

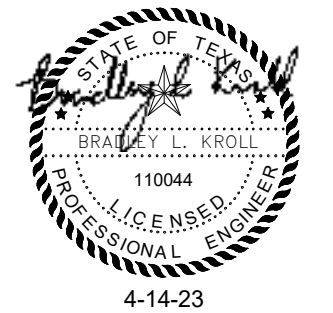
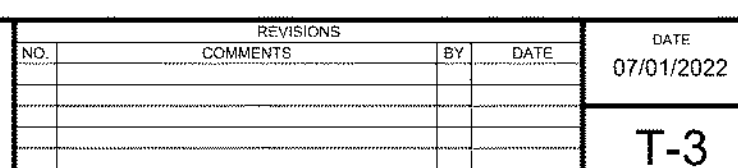
EXCEPTION: FOR PARKING LOT INSTALLATIONS, ALL BASES SHALL BE (30) THIRTY INCHES IN DIAMETER AND EXTEND A MINIMUM OF (36) THIRTY-SIX INCHES ABOVE GRADE. BELOW GRADE SPECIFICATIONS SHALL REMAIN AS STATED ABOVE.

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.



ANTIQUE STREET LIGHT REINFORCED FOUNDATION
(NO SCALE)

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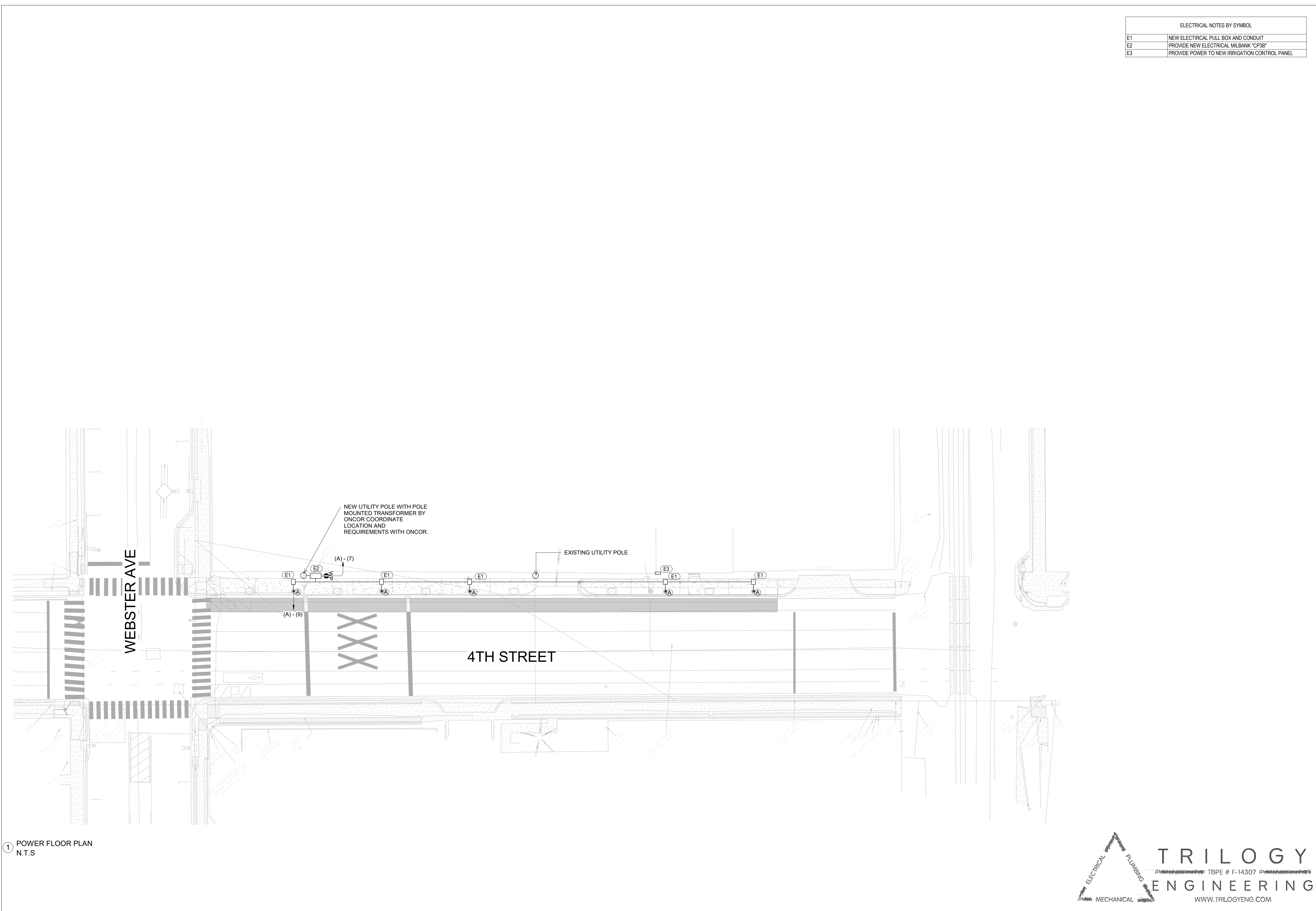
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CITY OF WACO
4TH STREET PEDESTRIAN IMPROVEMENTS

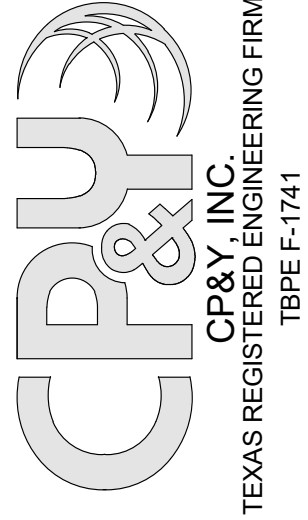
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REVIEW:	BK
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SHEET
E1.3

E1.3



ELECTRICAL NOTES BY SYMBOL	
E1	NEW ELECTRICAL PULL BOX AND CONDUIT
E2	PROVIDE NEW ELECTRICAL MILBANK "CP38"
E3	PROVIDE POWER TO NEW IRRIGATION CONTROL PANEL



REVISION		BY	DATE
NO.	VERIFICATION	SCALE	ADJUST
0	1"	1"	1"

CITY OF WACO
4TH STREET PEDESTRIAN IMPROVEMENTS

DESIGN:	2318
DRAWN:	AH
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PRINTED BY: emcdougald DATE: 4/12/2023
FILE PATH: G:\Projects\CVAC2200923-11th and Mary08_Plans_Drawings\20_Sheets\2200923-C80-DETAILS.dwg, C800

CONSTRUCTION MATERIAL SAMPLING AND TESTING MATRIX - 1 OF 2

Construction Operation	Standard Specifications		Standard Details	Applicable Testing	Frequency of Testing
	Material Specs	Construction Specs			
(Fill) Embankment		Section 1.5, Part 2		Standard Proctor & field densities	Proctor for each material to be used. Densities to be project specific
Excavation & Backfill (Trenching Operations)	Section 4.2, Part 2	Section 4.2, Part 3			
Embedment	Section 4.2, Part 2.A.1, & Part 2.A.2	Section 4.2, Part 3.A.5	G-8 & G-7	Gradations, Atterberg Limits, Standard Proctor, Field Densities	Gradation, Atterberg Limits, and Proctor at beginning of project on material submitted for use and at anytime there is an apparent change in material. Densities to be project specific.
Trench Backfill	Section 4.2, Part 2.A.3	Section 4.2, Part 3.A.5	G-9 & G-7	Gradations, Atterberg Limits, Standard Proctor, Field Densities	Gradation, Atterberg Limits, and Proctor at beginning of project on material submitted for use and at anytime there is an apparent change in material. Densities: 4 in first 100 LF and 2 every additional 500 LF. Additional densities as required if compaction fails to meet specifications.
Flowable Fill (Controlled Low Strength Material)	Section 4.2, Part 2.A.3(f)	Section 4.2, Part 2.A.3(f)	G-9 Note 7 & G-7 Note 3	Consistency, Compressive strength ASTM D4832	Consistency and Compressive Strength every 300 LF of trench backfilled.
Subgrade	Testing - Section 2.6				
Stabilization Determination			ST-2 & ST-4	Atterberg Limits to determine if stabilization is necessary, pH to determine amount of lime needed to stabilize	City Projects: Preliminary determined during design. Every 600 LF maximum along CL of street after mass grading. Subdivisions: Every 600 LF maximum along CL of street after mass grading.
Lime Treatment	Section 2.4, Part 2	Section 2.4, Part 3	ST-2 & ST-4	Gradations, Standard Proctor, Moisture Bias Calculations, Field Densities	Initial gradations performed to determine mixing pattern. Standard Proctor performed on each material that is visibly different. Densities performed at a rate of one per 300 LF of paving for two lanes.
Portland Cement Treatment	Section 2.2.B, Part 2	Section 2.2.B, Part 3		Unconfined Compressive Strength	1 sample per day of operations
Reclamation	Section 2.3.D, Part 2	Section 2.3.D, Part 3		Refer to either Lime Treatment or Portland Cement Treatment	Refer to either Lime Treatment or Portland Cement Treatment
Existing Material		Section 2.2, Part 3		Standard Proctor, Field Densities	Standard Proctor performed on each visibly different material. Densities performed at a rate of one per 300 LF of paving for two lanes.
Base Course	Testing - Section 2.6				
Gravel Base Course	Section 2.3, Part 2	Section 2.3, Part 3		Gradations, Atterberg Limits, Standard Proctor, Field Densities	Gradation, Atterberg Limits, and Proctor at beginning of project on material submitted for use and at any time there is an apparent change in material. Densities to be project specific.
Flexible Base	Section 2.3.B, Part 2	Section 2.3.B, Part 3		Gradations, Atterberg Limits, Standard Proctor, Field Densities	Gradation, Atterberg Limits, and Proctor at beginning of project on material submitted for use and at any time there is an apparent change in material. Densities to be project specific.
Cement Treated Base (Pug Base)	Section 2.3.C, Part 2	Section 2.3.C, Part 3	ST-2	Unconfined Compressive Strength	1 sample per day of operations

CONSTRUCTION MATERIAL SAMPLING AND TESTING MATRIX - 2 OF 2

Construction Operation	Standard Specifications		Standard Details	Applicable Testing	Frequency of Testing
	Material Specs	Construction Specs			
Surface Course	Testing - Section 3.7				
Hot-Mix Asphaltic Concrete Pavement	Section 3.3, Part 2	Section 3.3, Part 3	ST-2, ST-3	Extraction, Gradation, Stability & Flow, Densities	1 sample per day of paving operations. Densities - one per 600 LF of paving.
Portland Cement Concrete Pavement	Section 3.6, Part 2	Section 3.6, Part 3	ST-1, ST-4, ST-6 thru ST-9, G-7	Air Content, Slump, Compressive Strength	1 set of 4 cylinders per 150 CY but no less than 2 sets per day
Concrete	Testing - Section 5.6				
Curb and Gutter	Section 5.1, Part 2 & 3	Section 5.3, Part 3	ST-1, ST-7, ST-15 thru ST-20, G-7	Slump, Compressive Strength	One set of 4 cylinders per placement for the first 5 placements then one set for every other placement thereafter. (max. of 2 sets per day) *Different trucks on the same site at different times of the day constitute different placements.
Drive Approach	Section 5.1, Part 2 & 3	Section 5.4, Part 3	ST-1, ST-23A thru ST-24B, ST-26, G-7	Slump, Compressive Strength	
Valley & Fillet	Section 5.1, Part 2 & 3		ST-1, ST-18, ST-19, G-7	Slump, Compressive Strength	
Sidewalk, Curb Ramps, & Architectural Retaining Walls	Section 5.1, Part 2 & 3	Section 5.4, Part 3	ST-1, SW-1 thru SW-19, SW-21, G-7	Slump, Compressive Strength	
Concrete Lined Channel	Section 5.1, Part 2 & 3		SD-1, SD-14, G-7	Slump, Compressive Strength	
Cast-In-Place Sanitary Sewer Manholes	Section 5.1, Part 2 & 3	Section 4.8, Part 3.A.3	S-5 Note 16, S-13, G-7	Air, Slump, Compressive Strength	
Storm Sewer Manholes	Section 5.1, Part 2 & 3		SD-1, SD-10 thru SD-13 G-7	Air, Slump, Compressive Strength	
Inlets	Section 5.1, Part 2 & 3		SD-1 thru SD-7, G-7	Air, Slump, Compressive Strength	
Concrete Medians	Section 5.1, Part 2 & 3	Section 5.1, Part 3	ST-5, G-7	Slump, Compressive Strength	
Reinforced Concrete Headers	Section 5.1, Part 2 & 3	Section 5.1, Part 3	G-7	Slump, Compressive Strength	
Concrete Steps	Section 5.1, Part 2 & 3	Section 5.1, Part 3	G-7	Slump, Compressive Strength	One set per placement
Retaining Walls (Structural)	Section 5.1, Part 2 & 3	Section 5.1, Part 3	G-7	Air, Slump, Compressive Strength	



ENGINEERING
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REVISIONS			
NO.	COMMENTS	BY	DATE
1	REVISE STD DETAILS AND FREQ OF TESTING	MZ	02/01/2022
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DATE
01/31/2022

G-1A



ENGINEERING
DIVISION



REVISIONS			
NO.	COMMENTS	BY	DATE
1	REVISE STD DETAILS AND FREQ OF TESTING	MZ	02/01/2022
##	DESCRIPTION	FL	MM/DD/YYYY

DATE
01/31/2022

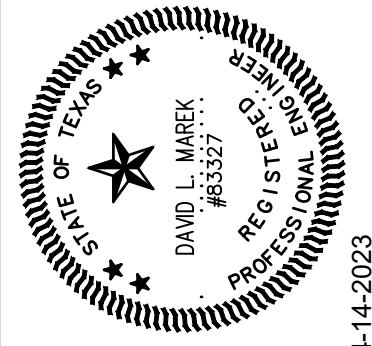
G-1B

CITY OF WACO
SOUTH 11TH STREET IMPROVEMENTS

CITY OF WACO
GENERAL DETAILS

DESIGN: DLM
DRAWN: CDG
REVIEW: DLM
CP&Y: CVAC2200923
CLIENT:

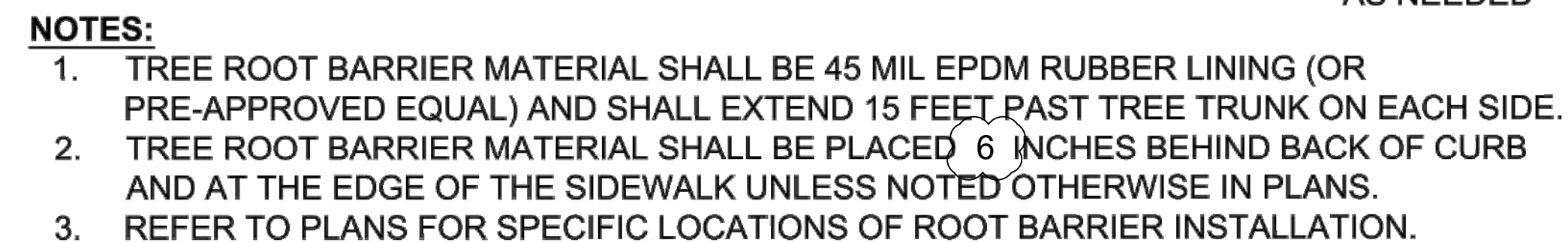
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NO.	REVISION	BY	DATE

VERIFY SCALE BAR LENGTH EQUALS ONE INCH ON ORIGINAL DRAWING. VERIFY LENGTH ON THIS SHEET AND ADJUST SCALE ACCORDINGLY.





DATE
12/22/2021

G-3



DATE
12/22/2021

G-7

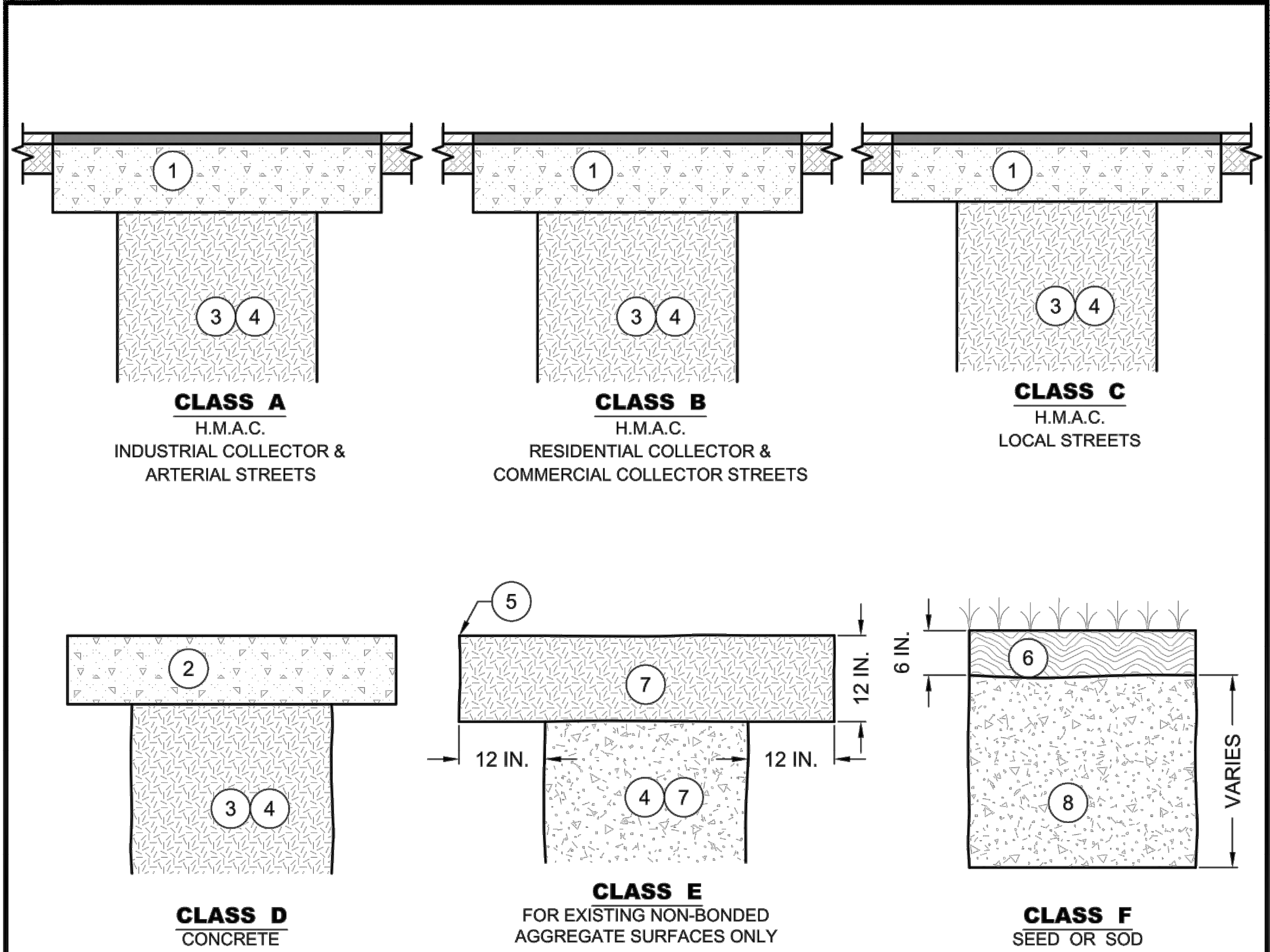


GENERAL DETAILS

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DRAWN: CDG
REVIEW: DLM
P&Y: CWAC2200923
CLIENT:

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PRINTED BY: emcdougald DATE: 4/12/2023
FILE PATH: G:\Projects\CWAC2200923-11th and Mary08_Plans_Drawings\20_Sheets\2200923-C80-DETAILS.dwg, C802



PAVEMENT / SURFACE REPLACEMENT DETAILS

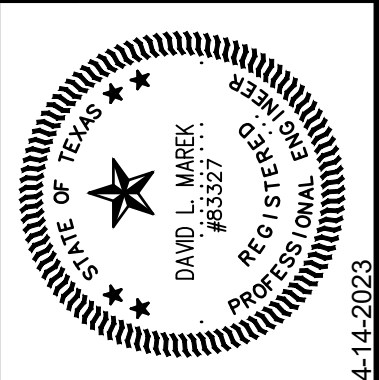
- 1 SEE ST-30 AND APPLICABLE ST-33 AND/OR ST-34 FOR SAW CUT AND PAVEMENT REPLACEMENT DETAILS.
- 2 SEE ST-37 AND APPLICABLE ST-35 AND/OR ST-36 FOR SAW CUT AND PAVEMENT REPLACEMENT DETAILS.
- 3 TYPE "A" MATERIAL PER STANDARD SPECIFICATIONS FOR CONSTRUCTION, SECTION 4.2 EXCAVATION AND BACKFILL, PART 2: PRODUCT, A. MATERIALS, 3. TRENCH BACKFILL, A. TYPE "A." MATERIAL MECHANICALLY COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY (TEX-113-E) OR CONTROLLED LOW STRENGTH MATERIAL.
- 4 USE CONTROLLED LOW STRENGTH MATERIAL TO BACKFILL ALL TRENCHES 18 IN. OR NARROWER, IN THE RIGHT-OF-WAY AND PUBLIC EASEMENTS.
- 5 EDGE TO BE STRAIGHT, SQUARE AND PARALLEL TO SIDES OF TRENCH.
- 6 6 IN. MIN. TOPSOIL AND SEED OR SOD - SUBSIDIARY.
- 7 TXDOT ITEM 247 FLEXIBLE BASE TYPE A GRADE 1-2 MINIMUM PLASTICITY INDEX 5.
- 8 SEE G-10 FOR BACKFILL MATERIAL REQUIREMENTS AND FOR INSTALLATION.

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 WACO	ENGINEERING DIVISION		REVISIONS				DATE 12/22/2021
			NO.	COMMENTS	BY	DATE	
			1	ADD NOTES	MZ	09/12/2022	G-9
			##	DESCRIPTION	FL	MO/DY/YEAR	



CP&Y, INC.
TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741



STATE OF TEXAS
DAVID L. MASEK
#65327
REGISTERED PROFESSIONAL ENGINEER
4-14-2023

NO.	REVISION	BY	DATE
	VERIFY SCALE		
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	DRAWING. VERIFY LENGTH ON THIS SHEET		
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CITY OF WACO SOUTH 11TH STREET IMPROVEMENTS	CITY OF WACO GENERAL DETAILS
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DESIGN: DLM
DRAWN: CDG
REVIEW: DLM
CP&Y: CWAC2200923
CLIENT:

SHEET C802

STREET - GENERAL NOTES

GENERAL

1. ALL CONCRETE, REINFORCEMENT, AND PLACEMENT MUST COMPLY WITH SECTION 5.1 OF THE CITY OF WACO STANDARD SPECIFICATIONS FOR CONSTRUCTION.
2. PLEASE REFER TO CITY OF WACO MANUAL OF STANDARD DETAILS, GENERAL DETAILS, GENERAL CONCRETE AND REINFORCEMENT NOTES.

STREETS

3. SAW JOINTS AS SOON AS IT IS POSSIBLE TO DO SO WITHOUT DAMAGING THE PAVEMENT AND LESS THAN 24 HOURS AFTER CONCRETE PLACEMENT. THE EXACT TIME IS SUBJECT TO APPROVAL BY THE CITY ENGINEER.

CURB AND GUTTER

4. NOTES UNDER THIS HEADING SHALL APPLY TO ALL THE TYPES OF CURBS AND GUTTERS.
5. CURB AND GUTTER FORMS SHALL BE "TAPPED" TO MINIMIZE VOIDS. WITHIN 24 HOURS OF REMOVAL OF THE FORMS, ANY VOIDS SHALL BE PATCHED WITH PORTLAND CEMENT MORTAR.
6. 2 INCH MINIMUM CLEAR DISTANCE SHALL BE USED FOR ALL REBAR.
7. EXPANSION JOINTS, PER STANDARD DETAILS, SHALL BE CONSTRUCTED AT EACH SIDE OF STRUCTURES, AT EACH SIDE OF DRIVEWAYS, CURB RETURNS, AND AT LOCATIONS NECESSARY TO LIMIT SPACING TO 50 FT. EXPANSION JOINTS SHALL BE CONSTRUCTED TO MATCH EXISTING EXPANSION JOINTS IN PAVEMENT OR CURB AND GUTTER ADJACENT TO JOINTED CONCRETE PAVEMENT
8. AT ALL EXPANSION JOINTS FOR CURBS AND GUTTERS, THE FOLLOWING SHALL APPLY:
 - 8.1. JOINTS SHALL BE 1/2 IN. WIDE
 - 8.2. MATERIALS USED SHALL BE IN ACCORDANCE WITH CITY STANDARD SPECIFICATIONS FOR EXPANSION JOINTS
 - 8.3. USE TWO 24 IN. LONG 3/4 IN. DIAMETER SMOOTH BARS FOR DOWELS
 - 8.4. USE 3/4 IN. P.V.C PIPE SLEEVE WITH CAPPED END PLACED LEVEL AND PERPENDICULAR TO THE FACE
9. CONTRACTION JOINTS SHALL BE PLACED ON 10' SPACING. JOINTS SHALL BE CUT OR TOOLED AT LEAST 2 INCHES THROUGH THE FACE, TOP, AND GUTTER.
10. CURB AND GUTTER SHALL CURE A MINIMUM OF 7 DAYS PRIOR TO INSTALLATION OF STREET BASE COURSE. IF CYLINDER BREAK SHOW A COMPRESSIVE STRENGTH OF 3000 PSI, THE CITY ENGINEER MAY APPROVE INSTALLATION OF BASE COURSE PRIOR TO 7 DAYS.
11. CURB AND GUTTER SHALL BE PLACED USING A MULE AND GOOSENECK OR APPROVED EQUIVALENT MEANS TO PRODUCE A UNIFORM PRODUCT WITH THE PRIOR APPROVAL OF THE CITY ENGINEER.
12. 1/2 IN. EXPANSION JOINTS ARE REQUIRED WHERE BACK OF CURBS OR CURB CUTS ARE ADJACENT TO CONCRETE FLATWORK (I.E. SIDEWALKS OR RIPRAP).
13. ALL EXISTING CURBS AND GUTTERS SHALL BE REMOVED BY FULL DEPTH SAWCUT PERPENDICULAR AND PARRELLEL TO THE STREET.
14. IF PORTLAND CEMENT MORTAR TOPPING IS USED, IT SHALL BE 1/2 INCH THICK.
15. THE LIP OF GUTTER SHALL BE THE SAME ELEVATION AS TOP OF SURFACE COURSE.

METAL BEAM GUARD FENCE

16. METAL BEAM GUARD FENCE SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST TEXAS DEPARTMENT OF TRANSPORTATION ROADWAY STANDARDS AND STANDARD SPECIFICATIONS.

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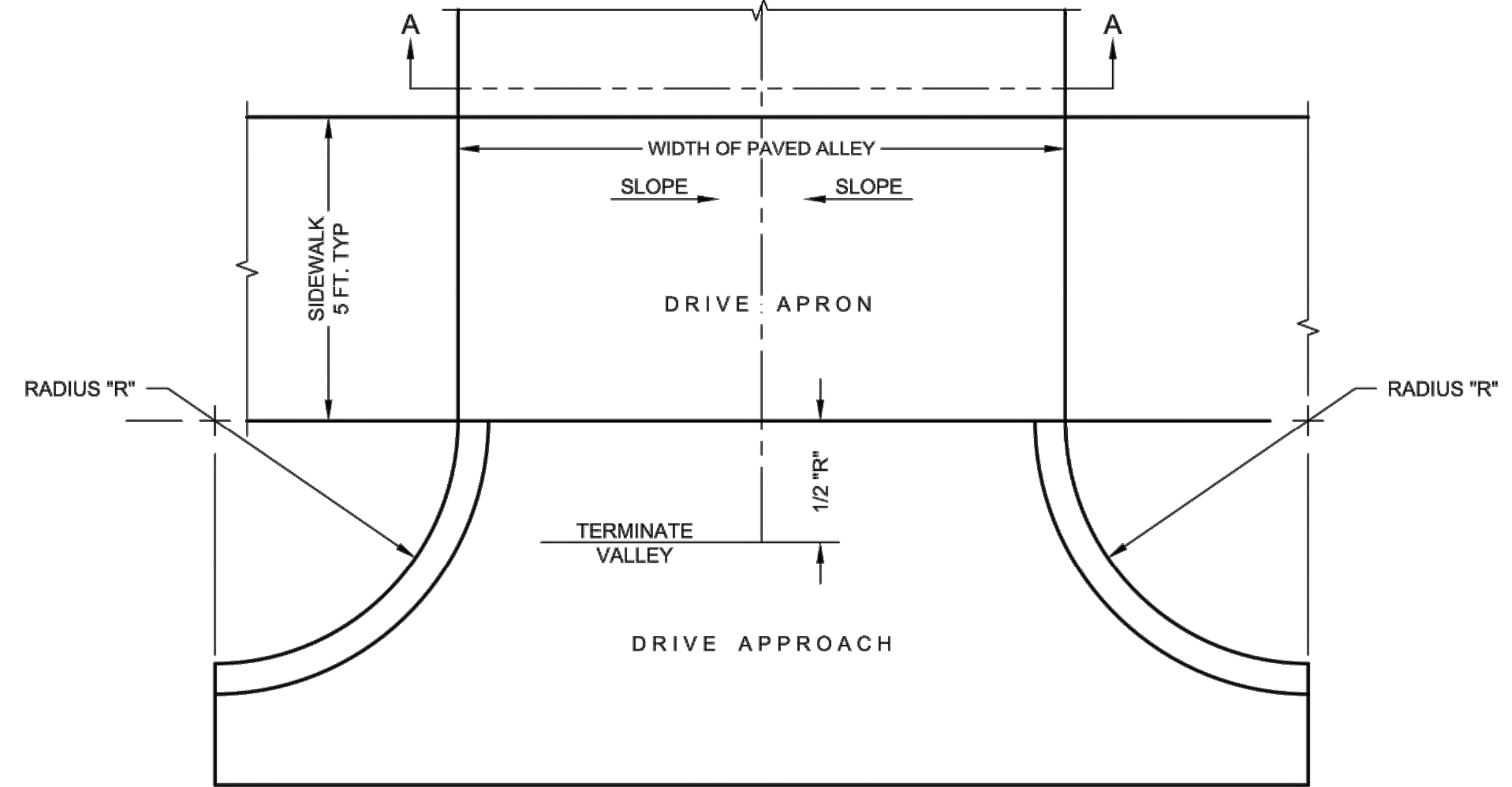
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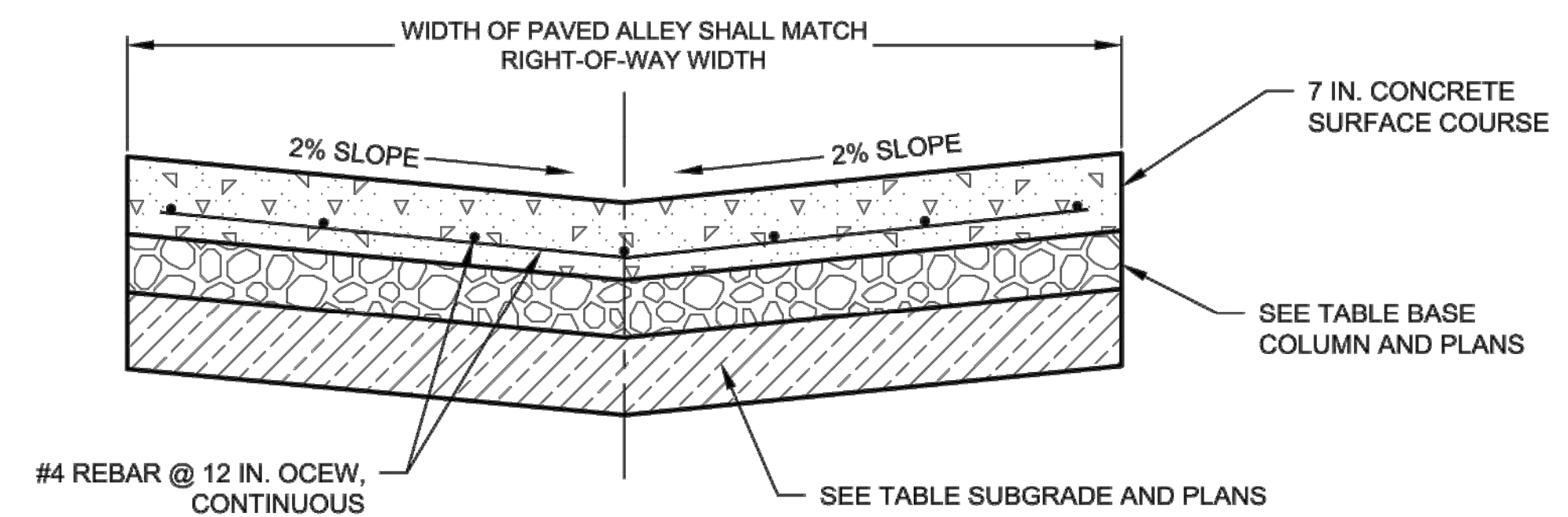
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11/29/2021

ST-1



PLAN VIEW



SECTION VIEW

NOTES:

1. ALLEYS IN RESIDENTIAL BLOCKS SHALL HAVE A MINIMUM RIGHT-OF-WAY WIDTH OF 20 FEET.
2. ALLEYS IN COMMERCIAL AREAS SHALL HAVE A MINIMUM RIGHT-OF-WAY WIDTH OF 30 FEET.
3. ALLEY INVERT SHALL BE CARRIED THROUGH DRIVEWAY APRON. TRANSITION SHALL TERMINATE PER DETAIL ABOVE.
4. SEE DRIVE APPROACH DETAILS FOR ADDITIONAL REQUIREMENTS.

	RIGID PAVEMENT SECTION (P.C. CONCRETE)		
P.I. OF SUBGRADE	P.C. CONCRETE	BASE	SUBGRADE
P.I. ≤ 20	7 IN.	4 IN. CTB ^{1,2}	COMPACTED ³
20 < P.I. < 40	7 IN.	-	6 IN. LSS
P.I. ≥ 40	7 IN.	-	8 IN. LSS

1. SUBSTITUTE: 4 IN. RECYCLED CRUSHED (TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION ITEM 247 FLEXIBLE BASE TYPE D GRADE 1-2 WITH MINIMUM P.I. OF FOUR).
2. BOND BREAKER CONSISTING OF 10 MIL POLYETHYLENE BETWEEN CTB AND P.C. CONCRETE PAVEMENT.
3. COMPACTED TO 95% DENSITY OF MAXIMUM DENSITY PER TEST PROCEDURE TEX-114-E.

STANDARD ALLEY DETAILS

(NO SCALE)

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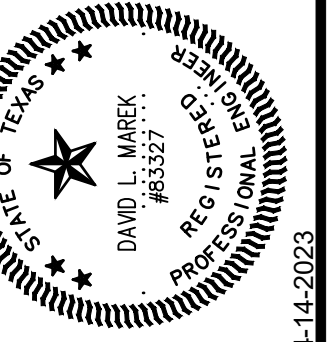
ENGINEERING
DIVISION



REVISIONS			
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02/15/2022

ST-4



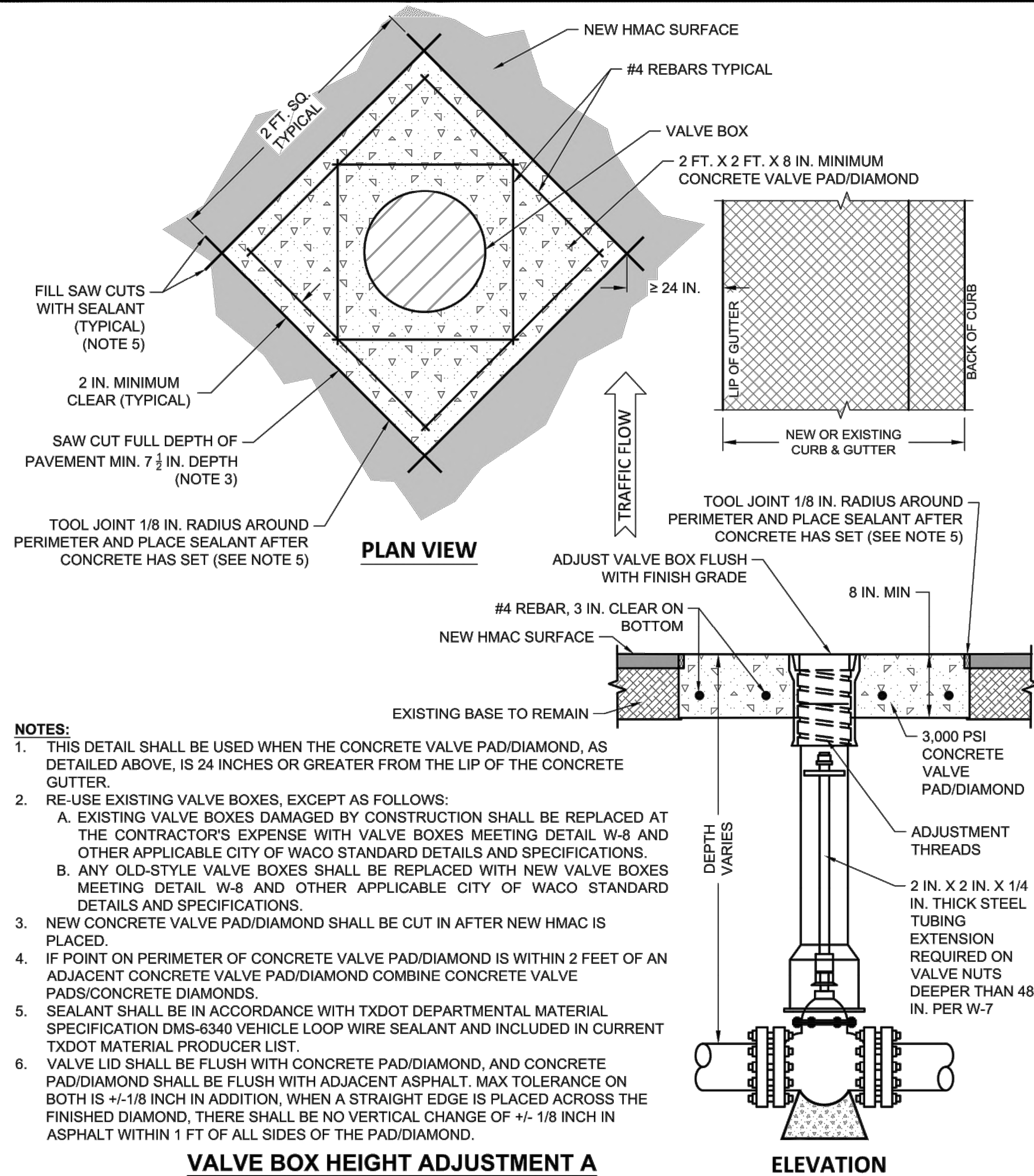
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	1"		
	AND ADJUST SCALE ACCORDINGLY.		

SOUTH 11TH STREET IMPROVEMENTS

STREET DETAILS

DESIGN: DLM
DRAWN: CDG
REVIEW: DLM
P&Y: CWAC2200923
CLIENT:

SHEET
C803



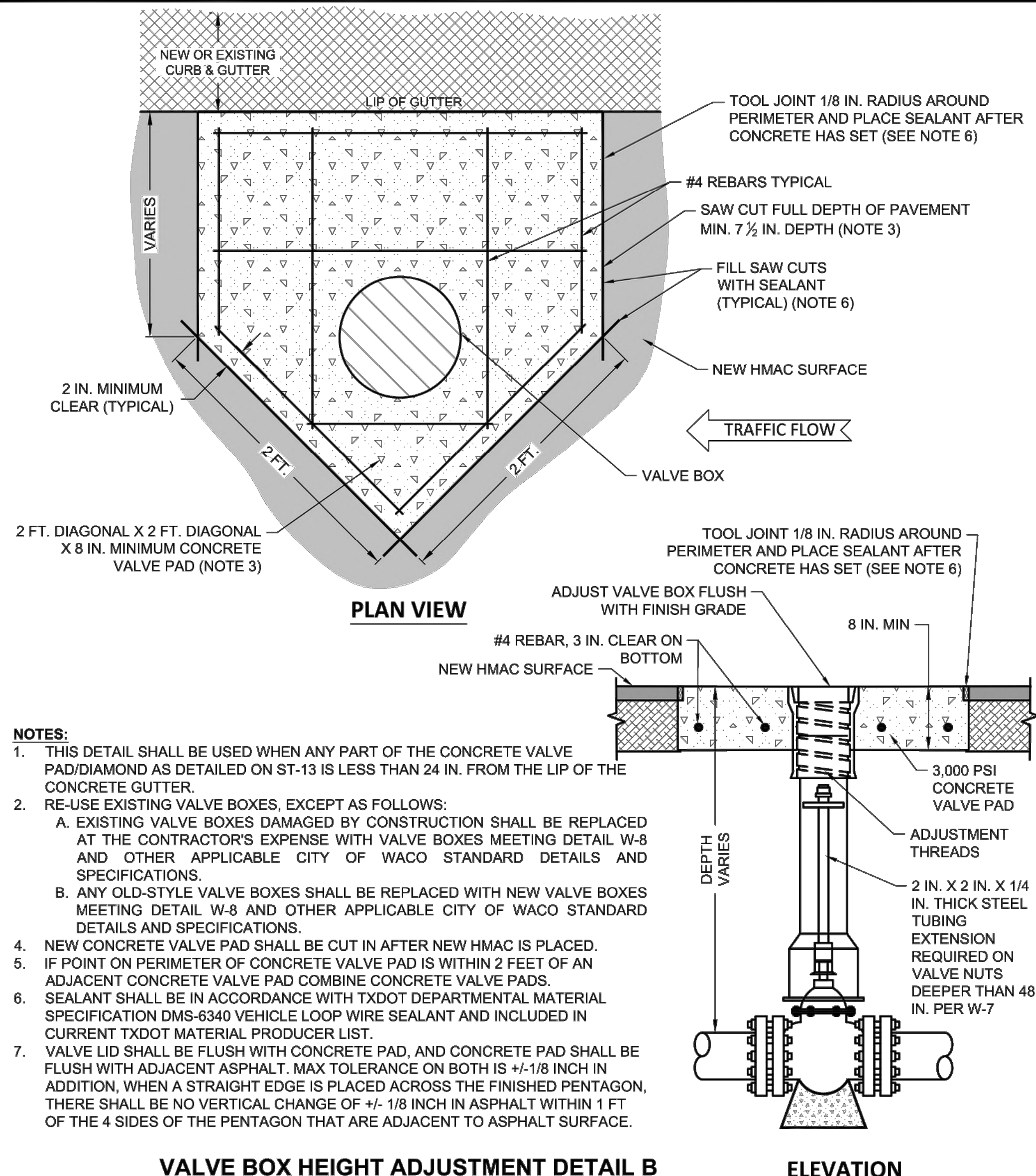
VALVE BOX HEIGHT ADJUSTMENT A

(FOR ASPHALT STREET REHABILITATION PROJECTS ONLY)

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(NO SCALE)

 ENGINEERING DIVISION		REVISIONS				DATE 11/29/2021
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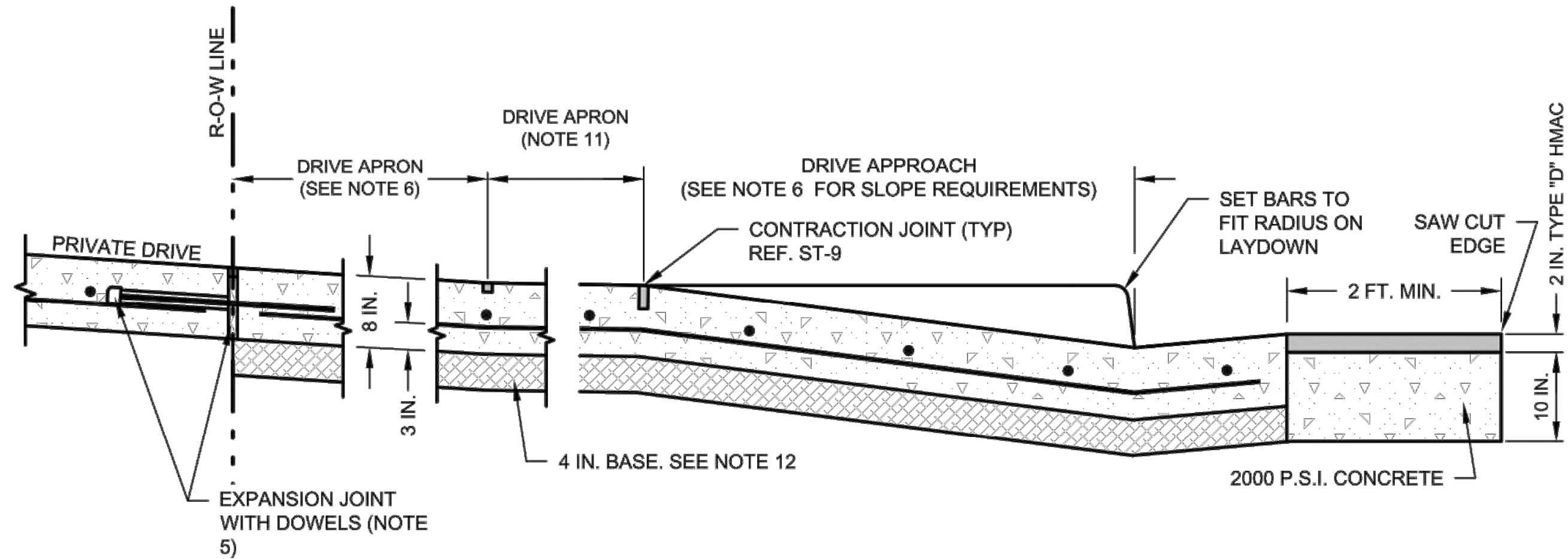


VALVE BOX HEIGHT ADJUSTMENT DETAIL B
(FOR ASPHALT STREET REHABILITATION PROJECTS ONLY)

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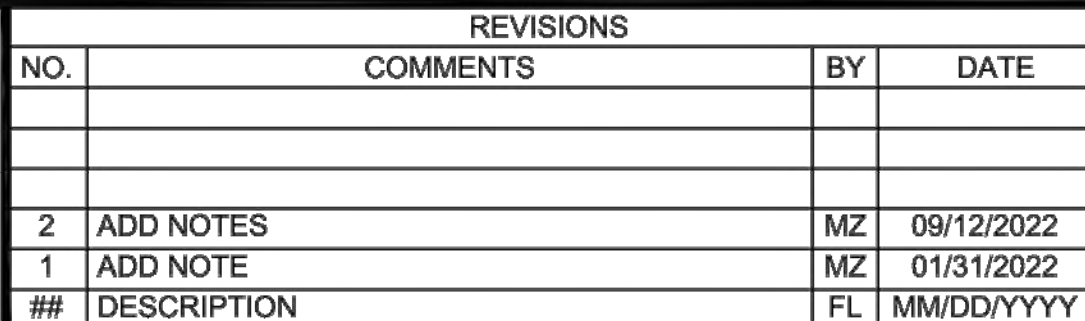
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 ENGINEERING DIVISION		REVISIONS				DATE
		NO.	COMMENTS	BY	DATE	11/29/2021
		##	DESCRIPTION	FL	MM/DD/YYYY	ST-14



STANDARD COMMERCIAL DRIVE APPROACH

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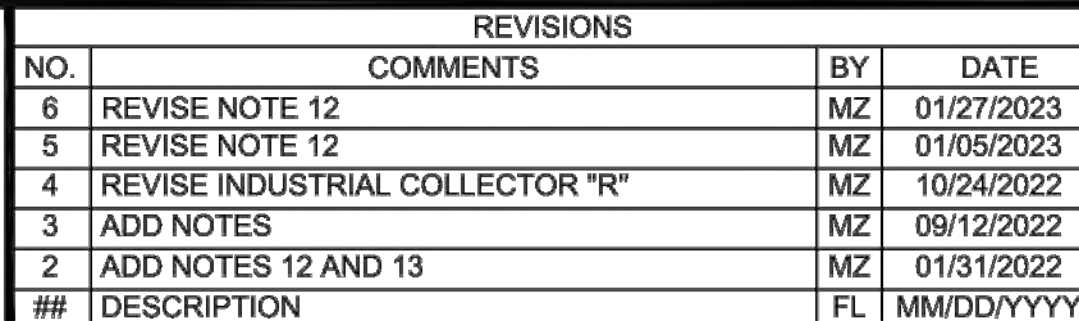


ST-24A

NOTES:

- | COMMERCIAL DRIVEWAY STANDARDS | | |
|--|-----------------------|----------------------------|
| DRIVEWAY TYPE | "W"
DRIVEWAY WIDTH | "R"
BACK OF CURB RADIUS |
| ARTERIAL | 30 FT MIN ~ 42 FT MAX | 10 FT MIN |
| COLLECTOR/LOCAL/CBD | 24 FT MIN ~ 42 FT MAX | 10 FT MIN |
| ALLEY (NOTE 8) | MATCH ALLEY R.O.W. | 10 FT MIN ~ 25 FT MAX |
| INDUSTRIAL DRIVEWAY AND INTERNAL CIRCULATION STANDARDS | | |
| DRIVEWAY TYPE | "W"
DRIVEWAY WIDTH | "R"
BACK OF CURB RADIUS |
| ARTERIAL | 30 FT MIN ~ 50 FT MAX | 15 FT MIN ~ 25 FT MAX |
| COLLECTOR/LOCAL/CBD | 30 FT MIN ~ 50 FT MAX | 10 FT MIN ~ 25 FT MAX |
| ALLEY (NOTE 8) | MATCH ALLEY R.O.W. | 10 FT MIN ~ 25 FT MAX |
- SEE CITY OF WACO DEVELOPMENT GUIDE FOR MORE DETAILS

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ST-24B



NO.	REVISION	BY	DATE
	VERIFY SCALE		
0	BAR LENGTH EQUALS ONE INCH ON ORIGINAL DRAWING. VERIFY LENGTH ON THIS SHEET		
	0	1"	

CITY OF WACO
SOUTH 11TH STREET IMPROVEMENTS

CITY OF WACO
STREET DETAILS

DESIGN: DLM
DRAWN: CDG
REVIEW: DLM
CP&Y: CWAC2200923
CLIENT:

SHEET
C806

PRINTED BY: emcdougald DATE: 4/12/2023
FILE PATH: G:\Projects\CWAC2200923-11th and Mary08_Plans_Drawings\20_Sheets\2200923-C80-DETAILS.dwg, C807

SIDEWALK GENERAL NOTES

GENERAL

- ALL CONCRETE AND REINFORCEMENT MATERIALS AND PLACEMENT MUST COMPLY WITH SECTION 5.1 OF THE CITY OF WACO STANDARD SPECIFICATIONS FOR CONSTRUCTION AND WITH ALL NOTES ON SHEET G-7 OF THE CITY OF WACO MANUAL OF STANDARD DETAILS.
- PROPOSED SIDEWALKS MUST COMPLY WITH THE CITY OF WACO CODES AND ORDINANCES, CHAPTER 22, ARTICLE III, SIDEWALKS.
- PEDESTRIAN ROUTES AND ELEMENTS WITHIN THE CITY RIGHT-OF-WAY AND PUBLIC EASEMENTS SHALL COMPLY WITH THE UNITED STATES ACCESS BOARD'S CURRENT PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG).
- RETAINING WALLS IN THE RIGHT-OF-WAY AND PUBLIC EASEMENT SHALL BE CAST-IN-PLACE CONCRETE.
- TRUNCATED DOME BRICK PAVERS ARE REQUIRED FOR DETECTABLE WARNING STRIPS. SAKRETE® PAVER SET POLYMERIC SAND™ OR PRE-APPROVED EQUAL SHALL BE USED.
- SW-5, SW-6, SW-7, SW-8 SHOW SOME TYPICAL RAMPS, ILLUSTRATING REQUIRED SLOPES AND DIMENSIONS AS THEY MIGHT BE APPLIED IN SEVERAL PARTICULAR CIRCUMSTANCES. IF ADEQUATE RIGHT-OF-WAY IS NOT AVAILABLE FOR THESE TYPICAL RAMPS, ALTERNATE DESIGNS MUST BE CREATED TO FIT WITHIN AVAILABLE RIGHT-OF-WAY AND STILL SATISFY THE GENERAL SLOPE AND DIMENSIONAL REQUIREMENTS ILLUSTRATED.

CONFIGURATION

- SIDEWALKS AND LANDINGS SHALL BE FORMED AT A MAXIMUM CROSS-SLOPE OF 1.5%. FINISHED CROSS-SLOPES EXCEEDING 2% WILL NOT BE ACCEPTED.
- NEW SIDEWALK SHALL BE CONNECTED TO ALL EXISTING ADJACENT WALKS AND STEPS.
- LANDINGS SHALL BE 5 FT. X 5 FT. MINIMUM WITH A MAXIMUM 2% SLOPE IN ANY DIRECTION, GRADED FOR POSITIVE DRAINAGE TO STREET.
- IF AN EXISTING GUTTER AT THE ENTRANCE TO A NEW RAMP OR LANDING HAS A CROSS SLOPE GREATER THAN 2%, THE EXISTING GUTTER MUST BE REMOVED AND REPLACED WITH GUTTER TIED TO THE 2% CROSS SLOPE ON ONE SIDE AND THE EXISTING STREET ON THE OTHER. THE SLOPE OF THE NEW GUTTER TOWARD THE STREET MAY NOT EXCEED 1:12.
- SLOPE OF RAMPS SHALL NOT EXCEED 1:12 UNLESS OTHERWISE NOTED.
- MINIMUM RAMP WIDTH IS 5 FEET EXCLUSIVE OF FLARED SIDES.

CONSTRUCTION

- PLACE CONSTRUCTION JOINTS WITH EXPANSION MATERIAL AT MINIMUM 50 FT. INTERVALS. EXPANSION JOINTS SHALL EXTEND THROUGH ANY ADJACENT RETAINING WALL OR TRANSITION CURB.
- REBAR CHAIRS SHALL BE PLACED ON 4 FT. MAX SPACING EACH WAY.
- PLACE TOOLED, CRACK CONTROL JOINTS AT A SPACING EQUAL TO THE WIDTH OF THE WALK.
- VERTICAL CHANGES IN LEVEL GREATER THAN 1/4 INCH ARE NOT PERMITTED ALONG SIDEWALKS.
- WHERE SIDEWALK OR CURB RAMP IS ADJACENT TO BACK OF CURB, DRIVEWAY RADIUS, INLET, OR ANY CONCRETE STRUCTURE, INSTALL CONSTRUCTION JOINT. SEE DETAIL SW-3.
- WHERE SIDEWALK OR CURB RAMP CONTACTS A POLE OR POLE FOUNDATION, PLACE 1/2 IN.EXPANSION JOINT MATERIAL BETWEEN POLE OR POLE FOUNDATION AND SIDEWALK/RAMP.
- CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH SECTION 5.1 OF THE CITY OF WACO STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- POOR WORKMANSHIP OR APPEARANCE SHALL BE GROUNDS FOR REMOVAL OR REJECTION.

LOCATIONS WITHIN THE CODE OF ORDINANCES OF MINIMUM REQUIRED WIDTHS OF SIDEWALK AND RELATED BUFFER PRESENTLY INCLUDE THE FOLLOWING

- SEC. 22-37. - CHANGING OF GRADE OF STREETS, ETC.
- SEC. 22-63. - SAME-LOCATION AND WIDTH OF SIDEWALKS.
- SEC. 28-880.11. - PUBLIC SPACES.
- SEC. 28-839. - SIDEWALKS.
- SUBDIVISION ORDINANCE SEC. 5.2. - PERMANENT IMPROVEMENTS.5.207. SIDEWALKS

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ENGINEERING
DIVISION



REVISIONS			
NO.	COMMENTS	BY	DATE
2	REVISE NOTE 17	MZ	12/21/2022
1	ADD CODE OF ORDINANCES LOCATIONS	MZ	03/28/2022
##	DESCRIPTION	FL	MM/DD/YYYY

DATE
01/10/2022

SW-1

SIDEWALK DETAILS LEGEND

- 5 IN. 3000 PSI CONCRETE WITH REBAR CHAIRS AT 48 IN. OCEW MAX. SIDEWALK SHALL BE 8 IN. THICK WHEN ADJACENT TO RETAINING WALLS. UNLESS OTHERWISE NOTED, SIDEWALK REINFORCEMENT SHALL BE #4 BARS @ 18 IN. OCEW.
- 4 INCH BASE. TYPE "A" MATERIAL PER STANDARD SPECIFICATIONS FOR CONSTRUCTION SECTION 4.2 EXCAVATION AND BACKFILL PART 2: PRODUCT A. MATERIALS 3. TRENCH BACKFILL A. TYPE "A." MATERIAL OR RECYCLED CRUSHED CONCRETE (TxDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION ITEM 247 FLEXIBLE BASE TYPE D GRADE 1-2, EXCLUDING TYPE A MATERIAL, WITH MINIMUM P.I. OF FOUR), OR PORTLAND CEMENT TREATED BASE (AFTER COMPACTION) COVERED BY 10 MIL. POLYETHYLENE BOND BREAKER) MECHANICALLY COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY. DEFINED AS "CURB BACKFILL" IN SELECT DETAILS.
- CROSS-SLOPE OF SIDEWALK SHALL BE 1.5% DESIGNED AND FORMED. ANY CROSS-SLOPE CONSTRUCTED LESS THAN 1% OR EXCEEDING 2% SHALL NOT BE ACCEPTED.
- TOOLED EDGE. MATCH EXISTING GRADE IF EXISTING GRADE IS HIGHER THAN TOP OF CURB. OTHERWISE, AREA BETWEEN CURB AND NEW SIDEWALK MUST BE FILLED AS REQUIRED & GRADED TO DRAIN. FILL SHALL BE COMPACTED TO 85% STANDARD PROCTOR DENSITY, AT OR ABOVE OPTIMUM MOISTURE CONTENT.
- GRADE/SLOPE SHALL BE WITHIN THE RANGE OF 1/4 IN. PER 1 FT. TO 1/2 IN. PER 1 FT.
- SLOPE OF BUFFER/LANDSCAPE AREAS WITHIN THE RIGHT-OF-WAY SHALL NOT EXCEED 4%.
- RESTORE VEGETATION IN KIND TO PRE-PROJECT CONDITIONS. FOR NEW SUBDIVISIONS, COMPLY WITH VEGETATION REQUIREMENTS
- CURB AND GUTTER PER PLANS AND CITY OF WACO DETAILS.
- IF EXISTING GRADE IS LOWER THAN NEW BACK OF SIDEWALK, FILL SHALL BE PLACED PER ORDINANCE, SEC. 22-73. - DIMENSIONS-PARKWAY. OUTSIDE OF RIGHT-OF-WAY FILL SHALL BE PLACED WITH MAXIMUM SLOPE OF 25% DOWN TO EXISTING GRADE. FILL SHALL BE COMPACTED TO 85% STANDARD PROCTOR DENSITY AT OR ABOVE OPTIMUM MOISTURE CONTENT.
- MATCH EXISTING GRADE.
- CUT TO GRADE.
- 3/4 INCH CHAMFER BOTH SIDES.
- CONTRACTION JOINTS WITH 3/4 IN. CHAMFER ON EACH SIDE SHALL BE PLACED ALONG ENTIRE HEIGHT OF RETAINING WALL AT EQUAL SPACING OF ADJOINING SIDEWALK.
- FRONT OF RETAINING WALL SHALL BE BROOM FINISHED PER ORDINANCE.
- WHERE SIDEWALK WITH RETAINING WALL IS SPECIFIED, RETAINING WALL WILL BE SUBSIDIARY TO THE ITEM, "CONCRETE SIDEWALK (SPECIAL) (RETAINING WALL)", WITH LIMITS OF PAY AS SHOWN HEREON.
- 2 IN. SCH. 40 PVC WEEP HOLES @ 10 FT. OC (TYP) SLOPED 1/4 INCH PER FOOT TO DRAIN TOWARD FRONT OF SIDEWALK.
- 1 CUBIC FOOT WASHED ROCK WRAPPED IN FILTER FABRIC.
- 1 IN. DIA X 3 FT. SMOOTH DOWELS AT 1 FT OC.
- 1 IN. PVC PIPE WITH CAPPED END.
- 1/2 IN. PERMANENT EXPANSION JOINT MATERIAL.

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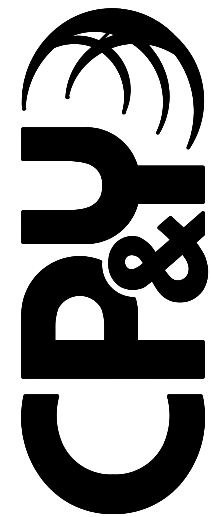
ENGINEERING
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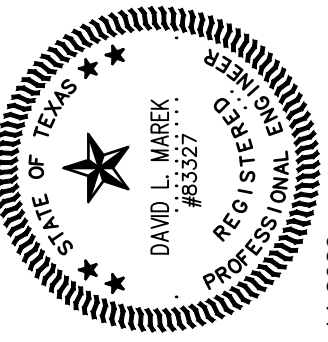
REVISIONS			
NO.	COMMENTS	BY	DATE
2	REVISE NOTE 2	MZ	01/27/2023
1	REVISE NOTE 3	MZ	05/16/2022
##	DESCRIPTION	FL	MM/DD/YYYY

DATE
01/10/2022

SW-2



CP&Y, INC.
TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741



4-14-2023

NO.		REVISION	BY	DATE
		VERIFY SCALE		
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		DRAWING. VERIFY LENGTH ON THIS SHEET		
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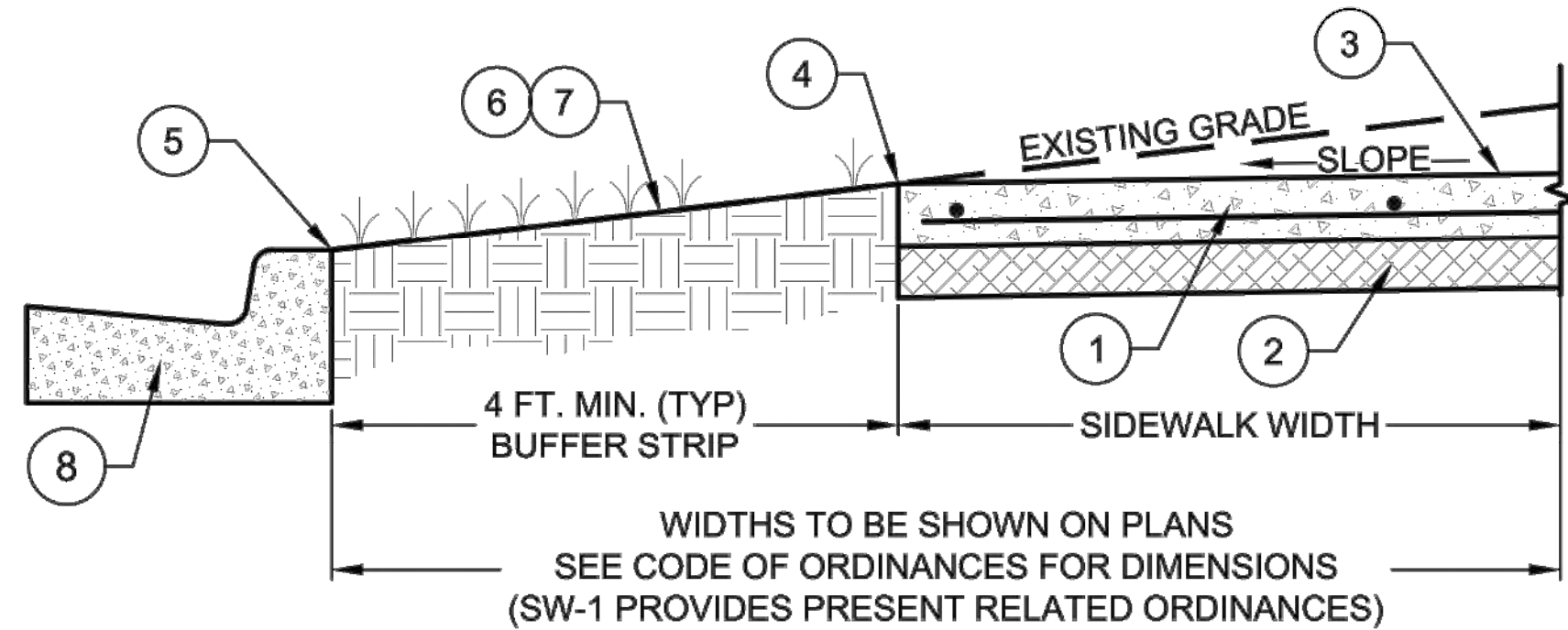
CITY OF WACO
SOUTH 11TH STREET IMPROVEMENTS

CITY OF WACO
SIDEWALK DETAILS

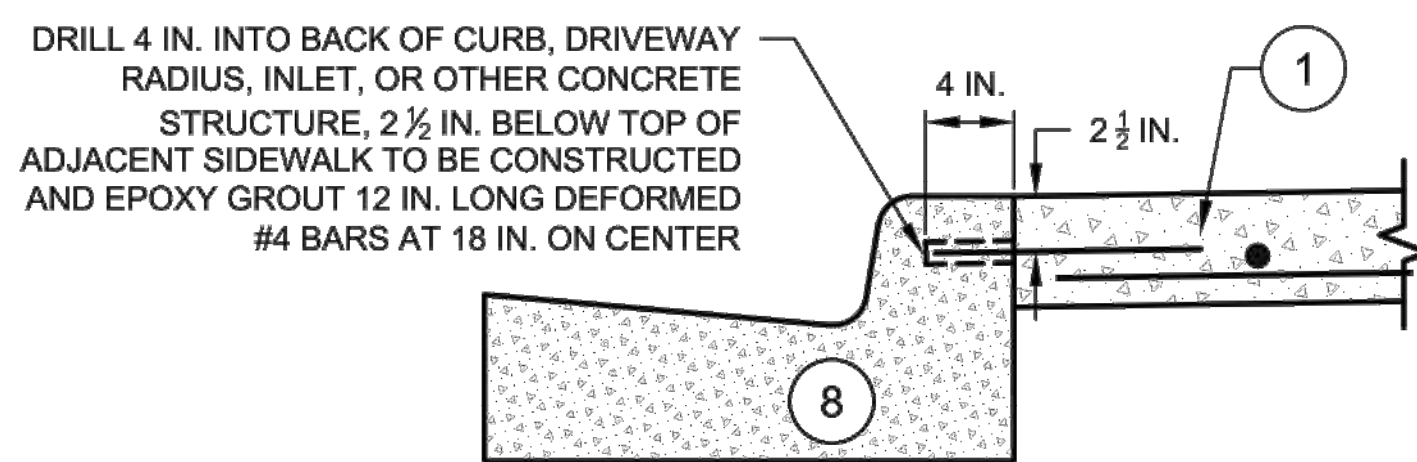
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DRAWN: CDG
REVIEW: DLM
CP&Y: CWAC2200923
CLIENT:

SHEET
C807

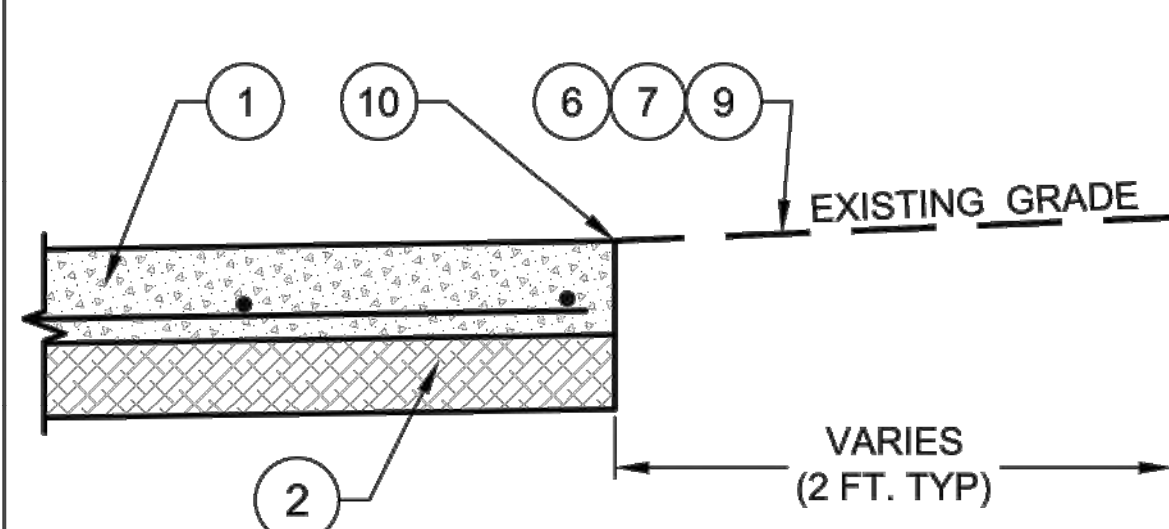
PRINTED BY: emcdougald DATE: 4/12/2023
FILE PATH: G:\Projects\CWAC2200923-11th and Mary08_Plans_Drawings\20_Sheets\2200923-C80-DETAILS.dwg, C808



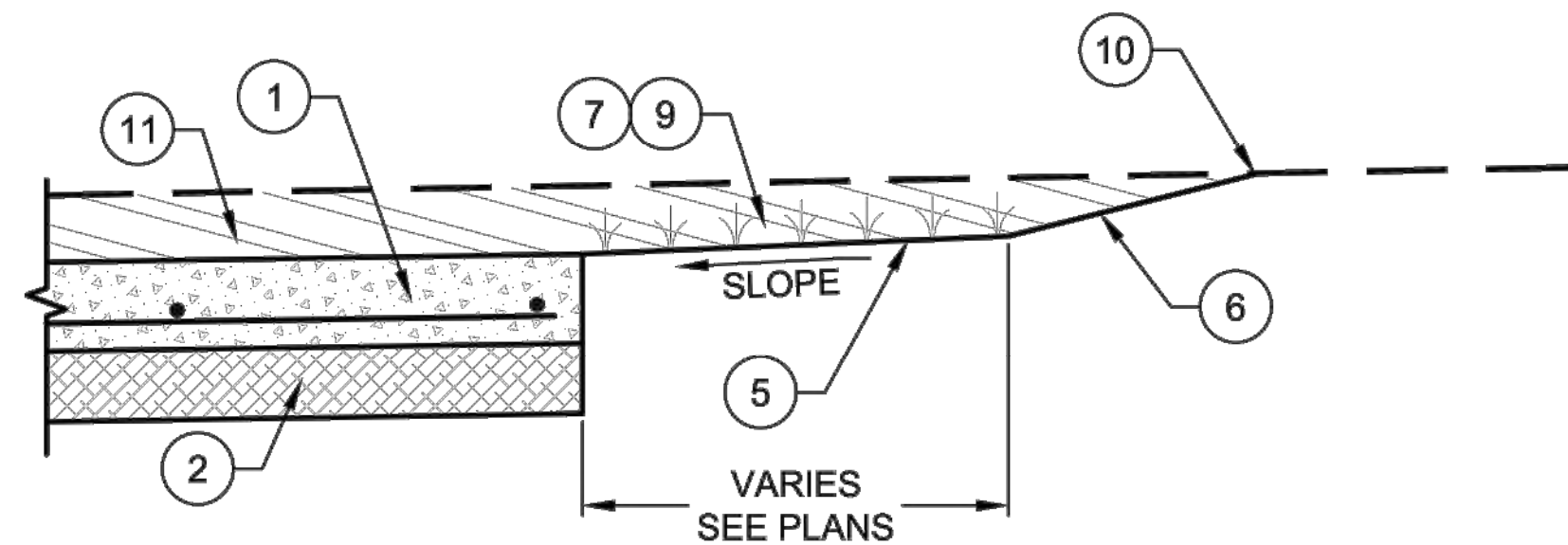
TYPICAL DETAILS OF FRONT OF SIDEWALKS



**CONSTRUCTION JOINT OF SIDEWALK ADJACENT TO
BACK OF CURB, DRIVEWAY RADIUS, INLET,
OR OTHER CONCRETE STRUCTURE**



SIDEWALK TO MATCH EXISTING GRADE



CUT BEHIND SIDEWALK TO MATCH EXISTING GRADE

FOR GENERAL NOTES SEE SHEET SW-1
FOR LEGEND DESCRIPTIONS SEE SHEET SW-2

SIDEWALK DETAILS - 1 OF 2
(NO SCALE)

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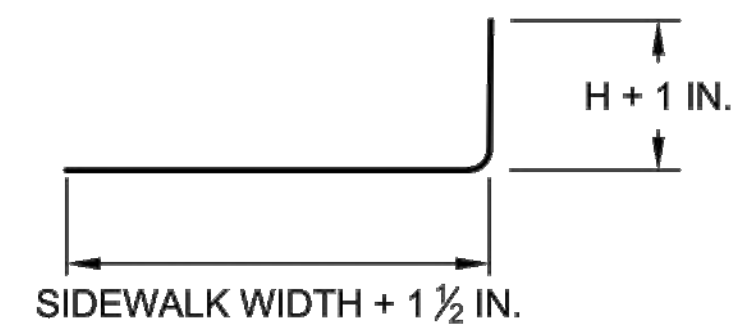
**ENGINEERING
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REVISIONS			
NO.	COMMENTS	BY	DATE
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1	ADD CODE OF ORDINANCES NOTE	MZ	03/28/2022
##	DESCRIPTION	FL	MM/DD/YYYY

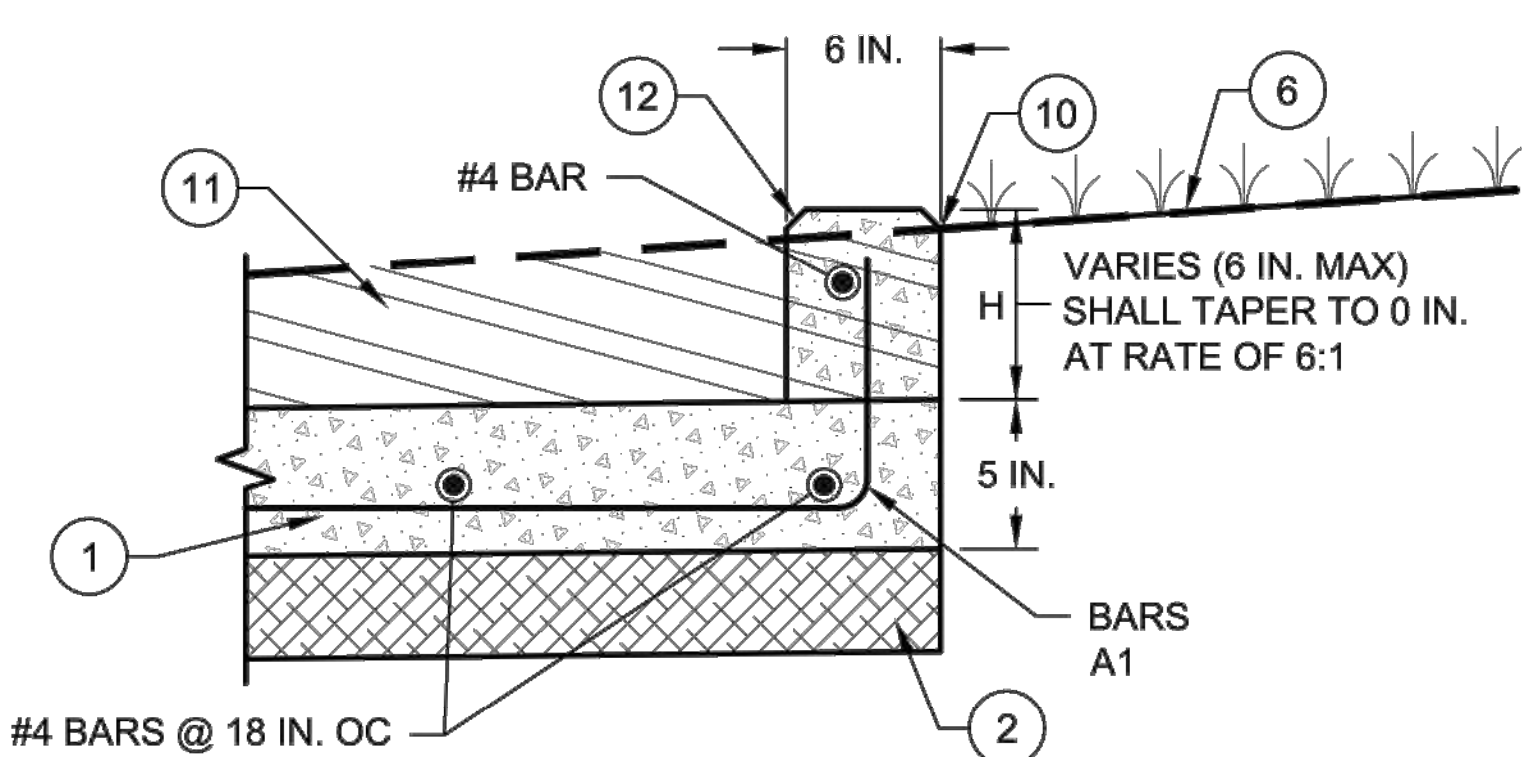
DATE
01/10/2022

SW-3

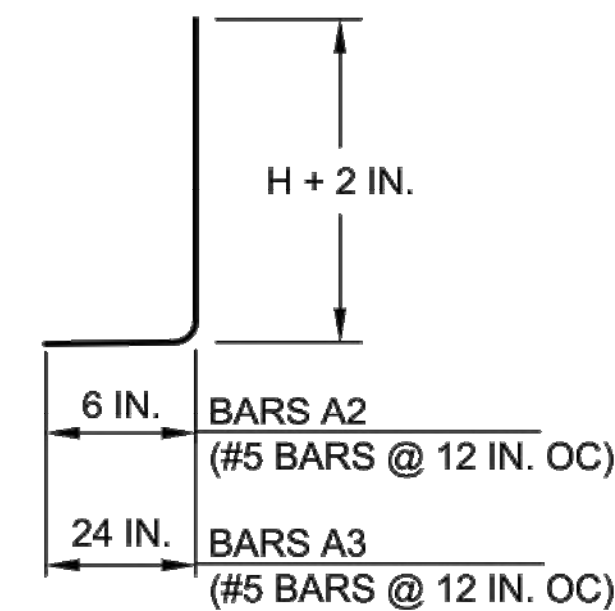


BARS A1
(#4 BARS @ 18 IN. OC)

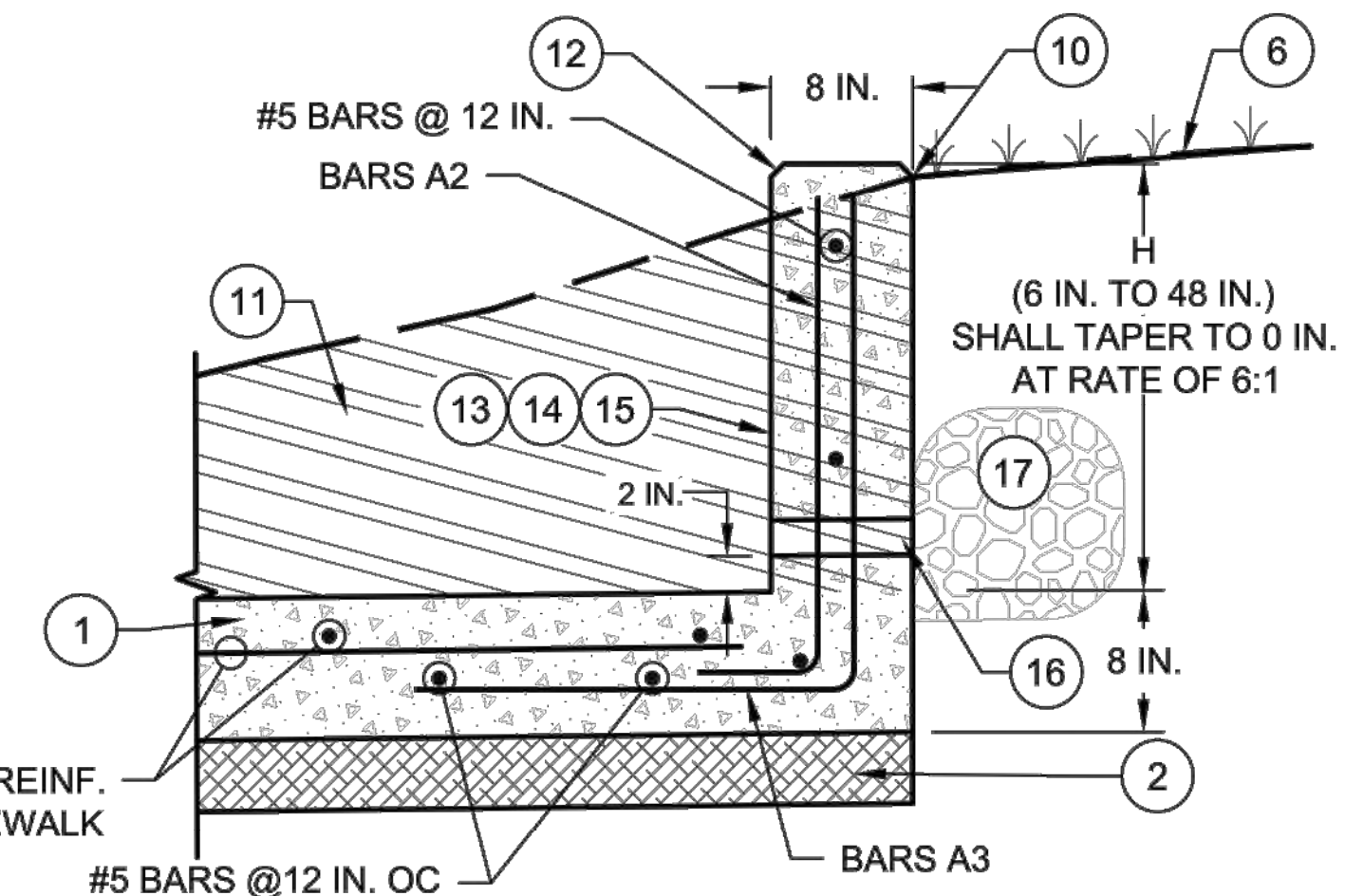
BAR BENDING DIAGRAM



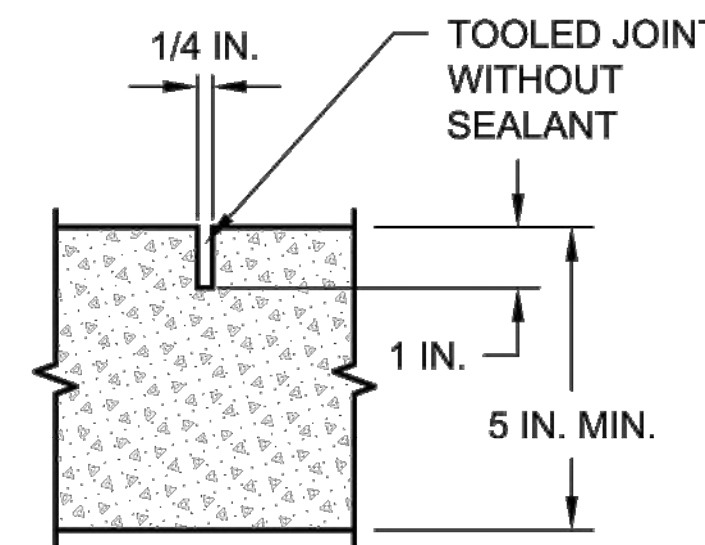
CURB TO MATCH EXISTING GRADE



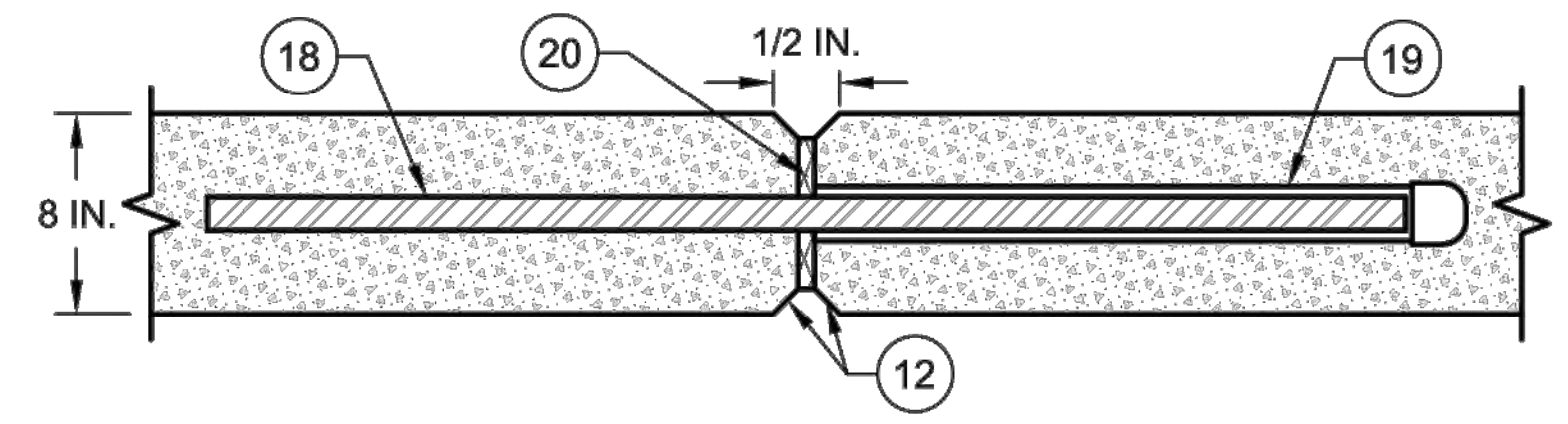
BAR BENDING DIAGRAM



RETAINING WALL MATCH TO EXISTING GRADE



CONTRACTION JOINT



RETAINING WALL EXPANSION JOINT

FOR GENERAL NOTES SEE SHEET SW-1
FOR LEGEND DESCRIPTIONS SEE SHEET SW-2

SIDEWALK DETAILS - 2 OF 2
(NO SCALE)

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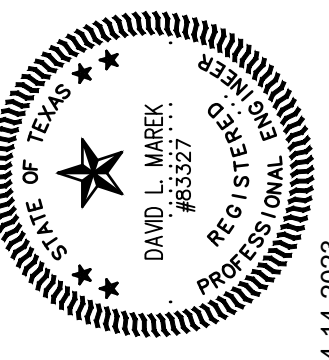
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REVISIONS			
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##	DESCRIPTION	FL	MM/DD/YYYY

DATE
01/10/2022

SW-4



NO.	REVISION	BY	DATE

CITY OF WACO
SOUTH 11TH STREET IMPROVEMENTS

CITY OF WACO
SIDEWALK DETAILS

DESIGN: DLM
DRAWN: CDG
REVIEW: DLM
CP&Y: CWAC2200923
CLIENT:

SHEET
C808

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TRAFFIC CONTROL PLANS

GENERAL REQUIREMENTS

- MUST CONFORM WITH CURRENT TEXAS MUTCD STANDARD
- MULTIPLE PHASES OF CONSTRUCTION WILL REQUIRE A SEPARATE TCP FOR EACH PHASE. ALL MAY BE SUBMITTED AT ONE TIME FOR ACCEPTANCE.
- MUST BE DEVELOPED TO ADDRESS THE SPECIFIC CONDITIONS OF THE PLANNED CONSTRUCTION WORK ZONE LOCATION.
- MUST BE COMPILED BY TEXAS LICENSED PROFESSIONAL ENGINEER

TCP SUBMITTAL PROCESS:

- THE TCP SHALL BE SUBMITTED TO THE CITY OF WACO TRAFFIC ENGINEERING OFFICE 15 CALENDAR DAYS PRIOR TO THE ANTICIPATED START DATE, WITH COPY OF CURRENT CERTIFICATION.
- ALL SUBMITTALS SHALL BE IN PORTABLE DOCUMENT FORMAT (.pdf) AND SENT VIA EMAIL TO TCP_SUBMITTAL@WACOTX.GOV, EXCEPT THAT CITY OF WACO PROJECTS IN PROJECTMATES SHALL BE SUBMITTED THROUGH THE PORTAL AT: [HTTPS://CITYOFWACO.PROJECTMATES.COM](https://CITYOFWACO.PROJECTMATES.COM).

LOCAL ROADS

- TCP REQUIRED FOR ANY LANE OR ROAD CLOSURES EXCEEDING 4 HOURS
- MAY UTILIZE TX MUTCD TYPICAL DETAILS INSTEAD OF A SITE-SPECIFIC TCP

COLLECTORS & ARTERIALS

- TCP REQUIRED FOR ANY LANE OR ROAD CLOSURES REGARDLESS OF DURATION
- TCP MUST BE SITE-SPECIFIC TO ADDRESS THE SPECIFIC CONDITIONS OF THE CORRIDOR AND ACCESS TO ADJACENT PROPERTIES
- LANE CLOSURES WILL REQUIRE ARROW BOARDS
- ROAD CLOSURES MAY REQUIRE DYNAMIC MESSAGE BOARDS TO PROVIDE PRIOR WARNING AHEAD OF START DATE
- NO INTERFERENCE WITH TRAFFIC FLOW SHALL BE PERMITTED DURING THE HOURS OF 6:30 A.M. TO 9:30 A.M. AND 3:30 P.M. TO 6:30 P.M., MONDAYS THROUGH FRIDAYS, UNLESS DIRECTED OTHERWISE BY THE DIRECTOR OF PUBLIC WORKS. EMERGENCY CLOSURES DURING THESE HOURS SHALL BE WITH THE APPROVAL OF THE DIRECTOR OF PUBLIC WORKS.

OTHER INFORMATION

- LANE OR ROAD CLOSURES ALONG STATE FACILITIES REQUIRE TXDOT APPROVAL
- REFERENCE CITY ORDINANCE: SEC. 23-25 TRAFFIC CONTROL

TCP IMPLEMENTATION

- CONTRACTOR SHALL PROVIDE A DESIGNATED CONTRACTOR'S RESPONSIBLE PERSON (CRP) FOR IMPLEMENTATION AND MAINTENANCE OF IMPLEMENTED TRAFFIC CONTROL PLAN.
- CONTRACTOR WILL HAVE TXDOT APPROVED TRAINING UNDER THE MATERIAL PRODUCER LIST [HTTPS://WWW.TXDOT.GOV/BUSINESS/RESOURCES/PRODUCER-LIST.HTML](https://www.txdot.gov/business/resources/producer-list.html)

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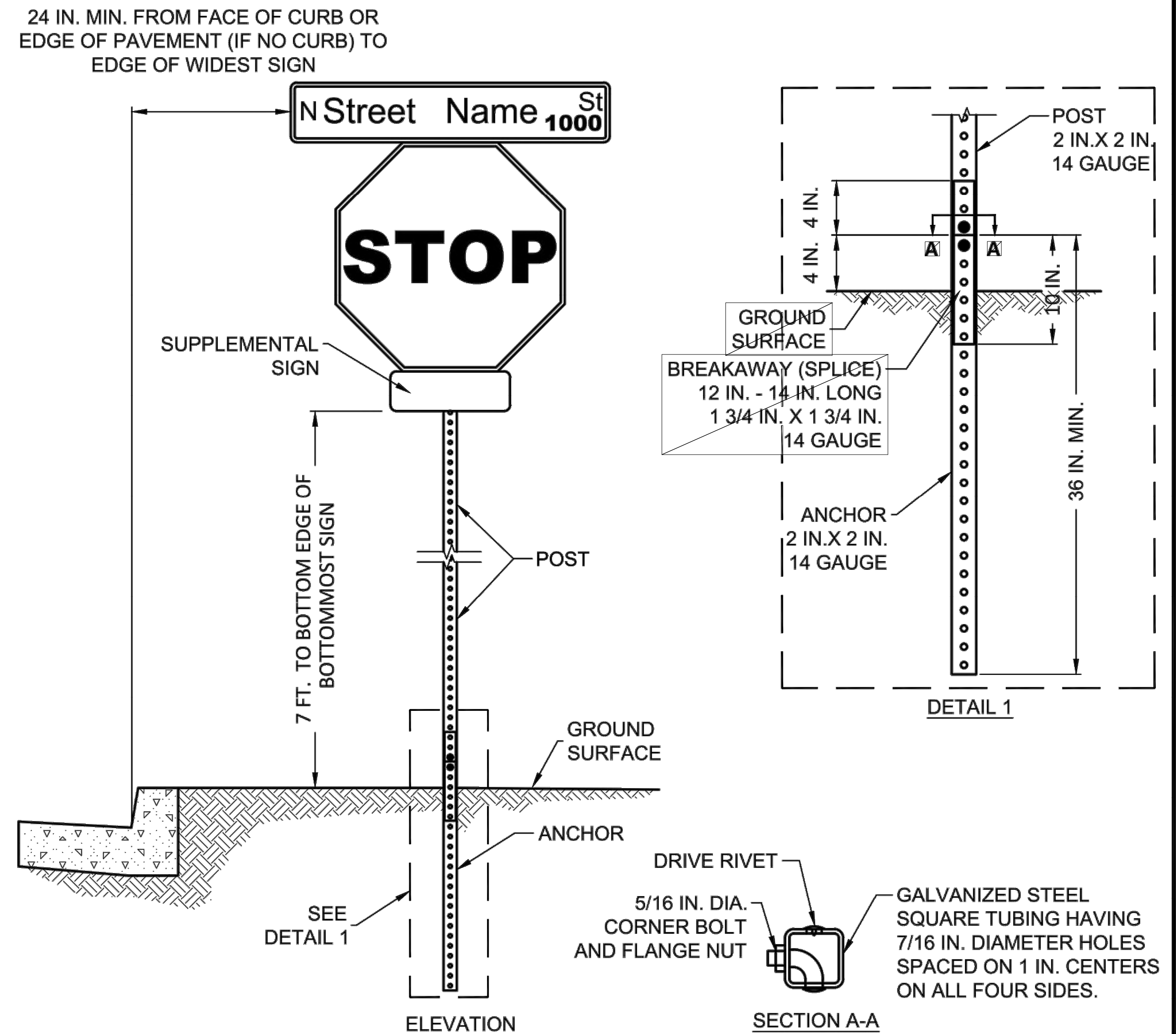
ENGINEERING
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NO.	COMMENTS	BY	DATE
##	DESCRIPTION	FL	MM/DD/YYYY

DATE
07/01/2022

T-1



NOTES:

1. SIGN AND SIGN POST SHALL BE TWO SEPARATE PAY ITEMS.
2. SIGN POST SHALL BE PLUMB (TRUE VERTICAL) IN ALL DIRECTIONS, AND SIGNS SHALL BE PERPENDICULAR TO POST.
3. SIGN SHALL BE FASTENED TO POST USING JUMBO HEAD DRIVE RIVETS.
4. IF TRAFFIC CONTROL SIGN (E.G., STOP, YIELD) IS REQUIRED, IT SHALL BE LOCATED BELOW THE STREET NAME SIGN.
5. SUPPLEMENTAL SIGN(S) SHALL BE LOCATED BELOW THE TRAFFIC CONTROL SIGN.
6. DRIVE RIVETS SHALL BE JUMBO HEAD, SHALL HAVE 3/8 INCH DIAMETER SHANK, AND SHALL HAVE A 1 INCH DIAMETER HEAD.
7. ANCHOR POST SHALL BE DRIVEN INTO THE GROUND OR SET IN 3000 PSI CONCRETE HAVING 1 FOOT DIAMETER AND A 26 INCH DEPTH. ANCHOR POST SHALL BE WRAPPED IF IT IS SET IN CONCRETE.

SIGN POST INSTALLATION

(NO SCALE)

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ENGINEERING
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NO.	COMMENTS	BY	DATE
##	DESCRIPTION	FL	MM/DD/YYYY

DATE
07/01/2022

T-6



NO.	REVISION	BY	DATE
	VERIFY SCALE		BAR LENGTH EQUALS ONE INCH ON ORIGINAL DRAWING. VERIFY LENGTH ON THIS SHEET.

SOUTH 11TH STREET IMPROVEMENTS

SIDEWALK DETAILS

DESIGN: DLM
DRAWN: CDG
REVIEW: DLM
P&Y: CWAC2200923
CLIENT:

SHEET
C809

1. PVC WATER MAIN COLOR SHALL BE BLUE.
2. ALL WATER LINES SHALL BE COMPLETE IN PLACE INCLUDING ALL BENDS, BLOCKS, FITTINGS, SERVICES AND APPURTENANCES BEFORE PRESSURE TESTING.
3. SURFACE REPLACEMENT SHALL BE INCLUDED IN THE UNIT PRICE FOR WATER SERVICES.
4. PLACE METALLIC TRACER WIRE ON TOP OF EMBEDMENT PRIOR TO PLACEMENT OF WATER LINE AND CONNECT TO EACH SERVICE, VALVE AND FIRE HYDRANT. SEE DETAIL W-34
5. METALLIC TRACER WIRE SHALL BE #12 AWG SOLID WIRE WITH A BLUE COATING. LOCATOR WIRE MUST TERMINATE IN AN APPROVED TRACER WIRE BOX. SEE DETAIL W-34
6. ALL DUCTILE IRON WATER PIPE AND FITTINGS MUST BE POLY-WRAPPED PER CITY SPECIFICATIONS.
7. A STAMPED "W" OF 4 IN. IN HEIGHT AND 3/8 IN. IN DEPTH SHALL BE PLACED IN THE CENTER OF FACE OF CURB AT EACH NEW SERVICE LOCATION AND IN ANY NEW CURB AT EXISTING SERVICES.
8. ALL COPPER SERVICE PIPE MUST BE TYPE K-SOFT.
9. ALL POLYETHYLENE SERVICE PIPE SHALL BE SDR-9 WITH EXTERIOR BLUE COLOR. CONTRACTOR SHALL USE 1 IN. OR 2 IN. CTS TUBING WITH STAINLESS STEEL INSERTS. ALL PIPE MUST MEET NSF 61, AWWA C901, ASTM D3350 AND ASTM D2737 STANDARD SPECIFICATIONS.
10. 3/4 IN. WASHED ROCK SHALL MEET THE REQUIREMENTS OF STANDARD SPECIFICATIONS FOR CONSTRUCTION ITEM A.2.a, CRUSHED STONE EMBEDMENT, OF SECTION 4.2 PART 2, EXCEPT THE GRADATION SHALL BE:

3/4 IN. WASHED ROCK	
SIEVE	PERCENTAGE RETAINED
1 1/2 IN.	0%
3/4 IN.	100%

- ## WATER SERVICE TAP NOTES

13. WHERE NEW WATER SERVICES ARE INSTALLED UNDER EXISTING CURB AND GUTTER, THE CONTRACTOR SHALL HAVE THE FOLLOWING OPTIONS:
 - A. REMOVE AND REPLACE CURB AND GUTTER SECTION FROM JOINT TO JOINT, TYPICALLY 10 FT.
 - B. CONSTRUCT MINIMUM SIZE TUNNEL NECESSARY TO INSTALL NEW WATER SERVICE AND THEN PLACE CONTROLLED LOW STRENGTH MATERIAL BENEATH THE EXISTING CURB AND GUTTER.
 - C. INSTALL SERVICE THROUGH A HOLE AT THE SAME LOCATION AS THE EXISTING PIPE, AND APPROXIMATELY THE SAME DIAMETER AS THE EXISTING PIPE.
14. ALL SERVICE TAPS MUST BE MADE UNDER PRESSURE AND FLUSHED, OR TAPPED DRY AND THEN HAVE A SWAB PULLED THROUGH THE PIPE BEFORE CONNECTING THE TAPPED PIPE TO THE MAIN.
15. 1-1/2 IN. AND 2 IN. METERS MUST BE BROUGHT TO THE WATER OFFICE TO BE TESTED. 3 IN. AND LARGER ARE TESTED IN THE FIELD BEFORE SERVICE IS APPROVED.
16. ALL 1-1/2 IN. AND LARGER METERS SHALL BE SENSUS OMNI METERS WITH ITRON CONNECTORS.
17. ALL EXTERNAL NUTS, BOLTS AND WASHERS SHALL BE STAINLESS STEEL.
18. ALL SERVICE TAPS MUST BE APPROVED IN ADVANCE BY THE CITY OF WACO AND MUST BE PERFORMED UNDER THE DIRECT SUPERVISION OF A DESIGNATED CITY OF WACO UTILITY INSPECTOR. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN.

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.



ENGINEERING
DIVISION



REVISIONS			
NO.	COMMENTS	BY	DATE
##	DESCRIPTION	FL	MO/DY/YEAR

DATE
8/25/2021

W-1

1. SEE W-1 AND W-4 FOR ADDITIONAL GENERAL NOTES.
2. ALL CALCULATIONS ARE BASED ON INTERNAL PRESSURE OF 200 PSI FOR 24 IN. I.D. PIPE AND SMALLER AND 150 PSI ON 30 IN. AND LARGER.
3. VOLUMES OF VERTICAL BEND THRUST BLOCKS ARE NET VOLUMES OF CONCRETE TO BE FURNISHED. THE CORRESPONDING WEIGHT OF THE CONCRETE (4000 LB/C.Y.) IS EQUAL TO OR GREATER THAN THE VERTICAL COMPONENT OF THRUST ON THE VERTICAL BEND.
4. CONCRETE FOR ALL BEARING SURFACES OF THRUST BLOCKS SHALL BE PLACED AGAINST UNDISTURBED EARTH OR ROCK.
5. WALL THICKNESS (T) ASSUMED HERE FOR ESTIMATING PURPOSES ONLY.
6. CONCRETE FOR BLOCKING SHALL BE 2000 PSI CONCRETE.
7. DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD CONDITIONS WHERE AND AS DIRECTED BY THE ENGINEER. THE VOLUME OF CONCRETE BLOCKING SHALL NOT BE LESS THAN SHOWN HERE.
8. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL SUBMIT TO THE PUBLIC WORKS DEPARTMENT A LISTING OF ALL MATERIALS TO BE USED. NO WORK SHALL BE UNDERTAKEN PRIOR TO WRITTEN APPROVAL OF THE MATERIAL LIST BY THE CITY PUBLIC WORKS DEPARTMENT.
9. CONCRETE SHALL NOT EXTEND BEYOND JOINTS.
10. USE 6 MIL POLYETHYLENE WRAP OR EQUAL BETWEEN CONCRETE AND BENDS TO PREVENT CONCRETE FROM STICKING TO BENDS.
11. PRE-PACKAGED CONCRETE MIX OR EQUIVALENT WILL ONLY BE APPROVED ON LINES 12 IN. AND SMALLER DIAMETER WITH JOINT RESTRAINTS.

- VOLUMETRIC CONCRETE MIXER TRUCK CONCRETE WILL BE PERMITTED FOR THRUST BLOCKS.
- SUBMITTALS OF MIX OR PRODUCT MUST BE PROVIDED.
- FOR NON-PLANT BATCHED CONCRETE FOR THRUST BLOCK LOCATIONS OF 2 CY OR LESS, MATERIAL SAMPLING AND TESTING FOR COMPRESSIVE STRENGTH WILL BE REQUIRED AT COST OF DEVELOPER'S CONTRACTOR. A MINIMUM OF ONCE PER FIRST USE ON PROJECT AND AS REQUIRED BY THE ENGINEERING INSPECTOR.
- LOCATIONS WITH QUANTITIES GREATER THAN 2 CY SHALL BE PLACED WITH EITHER PLANT BATCHED CONCRETE DELIVERED BY CONCRETE MIXING TRUCK(S) OR VOLUMETRIC CONCRETE MIXER TRUCK CONCRETE.

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ENGINEERING
DIVISION



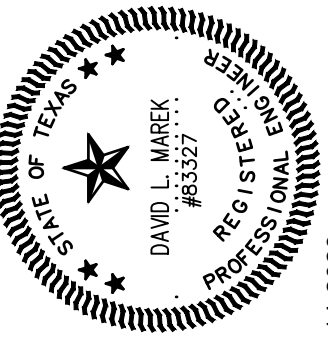
REVISIONS			
NO.	COMMENTS	BY	DATE
##	DESCRIPTION	FL	MO/DY/YEAR

DATE
8/25/2021

W-3A



CP&Y, INC.
TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741



4-14-2023

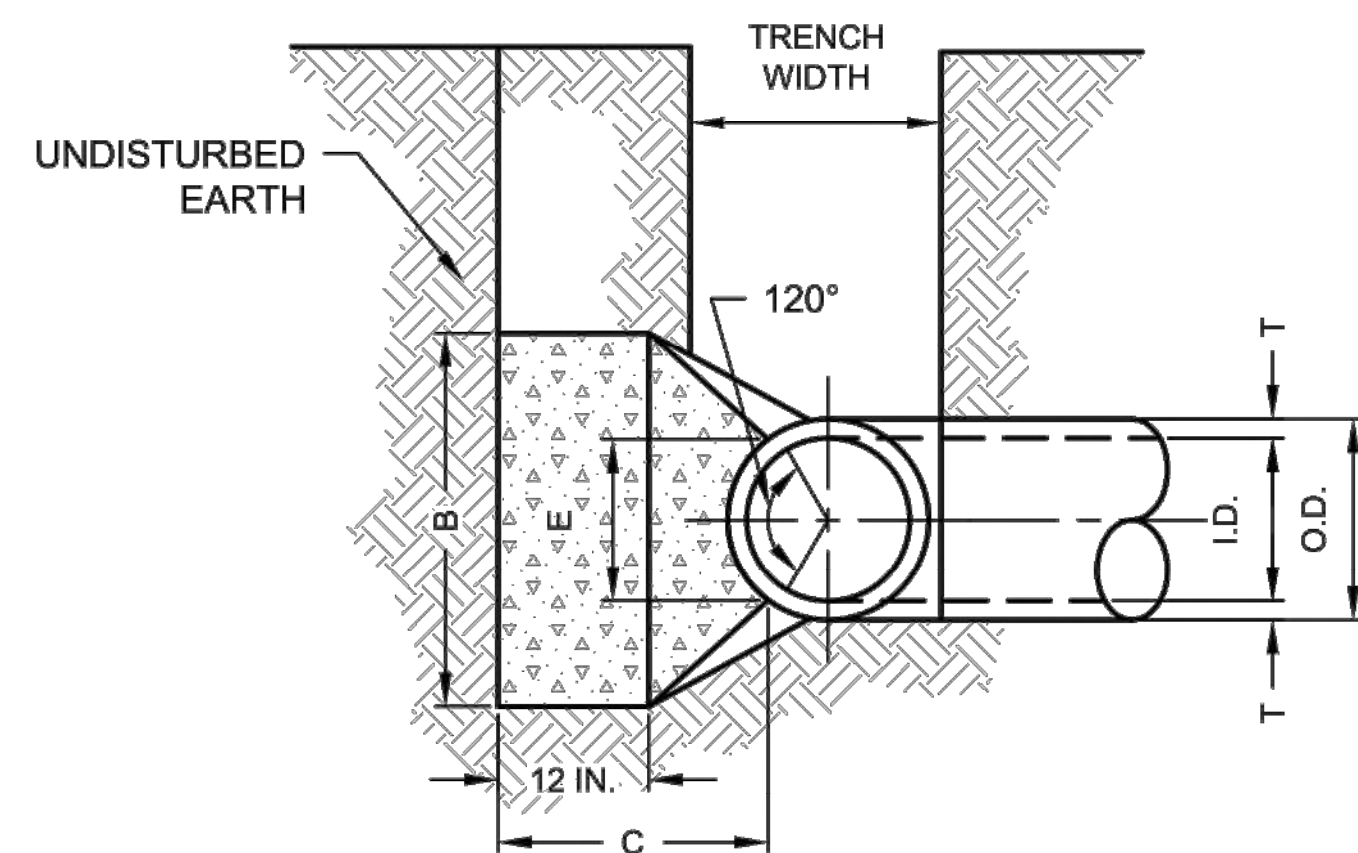
NO.	REVISION	BY	DATE
	VERIFY SCALE		
	BAR LENGTH EQUALS ONE INCH ON ORIGINAL		
	1" VERIFY THIS SHEET		
	0 AND ADJUST SCALE ACCORDINGLY		

CITY OF WACO
SOUTH 11TH STREET IMPROVEMENTS

CITY OF WACO
SIDEWALK DETAILS

DESIGN: DLM
DRAWN: CDG
REVIEW: DLM
CP&Y: CWAC2200923
CLIENT:

SHEET
C810



(NO SCALE)

SEE W-3C FOR
ADDITIONAL DETAILS



W-3B

I.D. (IN.)	$\Delta = 11.25^\circ$									I.D. (IN.)	$\Delta = 22.50^\circ$									I.D. (IN.)
	G.F.T.	THRUST TONS	EARTH			ROCK			G.F.T.		THRUST TONS	EARTH			ROCK					
			A.F.T.	B.F.T.	VOLUME C.Y.	A.F.T.	B.F.T.	VOLUME C.Y.				A.F.T.	B.F.T.	VOLUME C.Y.	A.F.T.	B.F.T.	VOLUME C.Y.			
4,6,8	0.4	1.0	1.0	1.5	0.1	1.0	1.0	0.1	4,6,8	0.8	2.0	1.5	1.5	0.1	1.0	1.0	0.1	4,6,8		
10,12	0.6	2.2	1.5	1.5	0.1	1.0	1.5	0.1	10,12	1.1	4.4	2.0	2.5	0.3	1.5	1.5	0.1	10,12		
16,18	0.8	5.0	2.0	2.5	0.3	1.5	2.0	0.2	16,18	1.6	9.9	2.0	3.5	0.6	2.0	2.5	0.3	16,18		
20	0.9	6.2	2.0	3.5	0.4	1.5	3.0	0.3	20	1.8	12.6	3.5	3.5	0.7	2.0	3.5	0.4	20		
24	1.1	8.9	3.0	3.0	0.5	1.5	3.0	0.3	24	2.2	17.7	4.0	4.5	1.0	3.0	3.0	0.5	24		
30	1.4	10.4	3.0	4.5	0.6	2.0	3.5	0.4	30	2.7	20.7	5.0	4.5	1.5	3.0	4.0	0.8	30		
36	1.7	15.0	3.5	5.0	0.9	2.0	4.0	0.5	36	3.3	29.8	5.5	5.5	2.3	4.0	4.0	1.3	36		
42	1.9	20.4	4.5	6.0	1.5	2.5	5.0	0.8	42	3.8	40.5	7.0	6.0	3.9	4.5	5.0	2.1	42		
48	2.2	26.6	4.5	6.0	2.0	2.5	6.0	1.1	48	4.4	52.9	8.0	7.0	5.7	4.5	6.0	2.8	48		
54	2.5	33.7	6.0	7.0	3.0	3.0	6.0	1.4	54	4.9	67.0	9.0	8.0	8.0	6.0	6.0	4.1	54		
60	2.7	41.6	6.0	8.0	3.8	3.0	7.0	1.8	60	5.5	82.7	9.5	9.0	10.6	6.0	7.0	5.3	60		
66	3.0	50.3	6.5	8.0	5.1	3.5	8.0	2.7	66	6.0	100.1	10.5	10.0	14.1	6.5	8.0	7.2	66		
72	3.3	59.9	7.5	9.0	6.3	4.0	8.0	3.3	72	6.6	119.1	11.0	11.0	17.6	7.5	8.0	9.1	72		
78	3.6	40.2	8.0	10.0	8.1	4.0	9.0	3.9	78	7.1	139.8	12.0	12.0	22.5	8.0	9.0	11.7	78		
84	3.9	81.5	8.5	10.0	10.3	4.5	10.0	5.3	84	7.6	162.1	13.0	12.5	27.2	8.5	10.0	14.8	84		
90	4.1	93.5	9.5	10.0	12.2	5.0	10.0	6.3	90	8.2	186.1	14.0	13.5	33.7	9.5	10.0	17.7	90		
96	4.4	108.4	10.0	11.0	15.0	5.0	11.0	7.4	96	8.7	211.7	15.0	14.5	41.2	10.0	11.0	21.8	96		

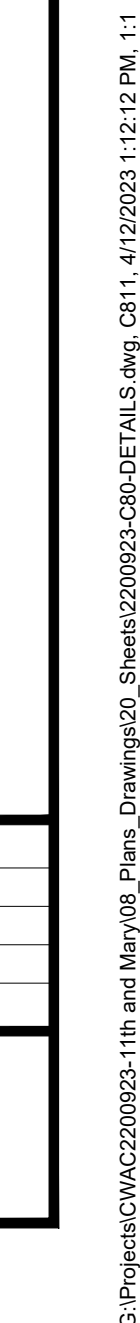
I.D. (IN.)	$\Delta = 30^\circ$									I.D. (IN.)	$\Delta = 45^\circ$									I.D. (IN.)
	G FT.	THRUST TONS	EARTH			ROCK			G FT.		THRUST TONS	EARTH			ROCK					
			A FT.	B FT.	VOLUME C.Y.	A FT.	B FT.	VOLUME C.Y.				A FT.	B FT.	VOLUME C.Y.	A FT.	B FT.	VOLUME C.Y.			
4,6.8	1.0	2.6	2.0	1.5	0.2	1.0	1.5	0.1	4,6.8	1.5	3.9	2.0	2.0	0.2	1.5	1.5	0.1	4,6.8		
10,12	1.5	5.9	2.5	2.5	0.3	2.0	1.5	0.2	10,12	2.2	8.7	3.5	2.5	0.5	2.0	2.5	0.3	10,12		
16,18	2.2	13.2	3.5	4.0	0.8	2.5	3.0	0.4	16,18	3.2	19.5	4.5	4.5	1.2	3.0	3.5	0.6	16,18		
20	2.4	16.3	4.5	4.0	1.0	3.0	3.0	0.5	20	3.6	24.1	5.5	4.5	1.5	3.5	3.5	0.7	20		
24	2.9	23.4	6.0	4.0	1.4	3.5	3.5	0.7	24	4.3	34.6	8.0	4.5	2.3	4.5	4.0	1.1	24		
30	3.6	27.5	5.5	5.0	1.9	3.5	4.0	0.9	30	5.4	40.6	8.5	5.0	3.2	5.5	4.0	1.6	30		
36	4.4	39.5	7.0	6.0	3.4	4.5	4.5	1.6	36	6.5	58.5	10.0	6.0	5.3	6.5	4.5	2.6	36		
42	51.0	53.8	8.0	7.0	5.1	5.5	5.0	2.5	42	7.5	79.6	11.5	7.0	8.1	8.0	5.0	4.2	42		
48	5.8	70.3	9.0	8.0	7.4	6.0	6.0	3.7	48	8.6	104.0	13.0	8.0	11.9	9.0	6.0	6.3	48		
54	6.5	89.0	10.0	9.0	10.3	7.0	6.5	5.3	54	9.7	131.5	15.0	9.0	17.1	10.5	6.5	8.9	54		
60	7.3	110.0	11.0	10.0	13.9	7.5	7.5	7.3	60	10.7	162.4	16.5	10.0	23.1	11.0	7.5	12.0	60		
66	8.0	132.9	12.5	11.0	18.9	8.5	8.0	9.6	66	11.8	196.5	18.0	11.0	30.1	12.0	8.5	16.2	66		
72	8.7	158.2	13.5	12.0	24.0	9.0	9.0	12.3	72	12.9	233.9	19.5	12.0	38.6	14.0	8.5	20.7	72		
78	9.4	185.6	14.5	13.0	30.0	10.0	9.5	15.6	78	13.9	274.5	21.5	13.0	49.8	14.5	9.5	25.9	78		
84	10.1	215.3	15.5	14.0	37.1	10.5	10.5	19.5	84	15.0	318.4	23.0	14.0	61.2	15.5	10.5	32.6	84		
90	10.9	247.1	16.5	15.0	45.0	11.5	11.0	23.9	90	16.1	365.5	24.5	15.0	74.5	17.5	10.5	39.6	90		
96	11.6	281.2	18.0	16.0	55.0	12.5	11.5	28.9	96	17.1	415.6	26.0	16.0	89.5	18.5	11.5	48.5	96		

I.D. (IN.)	$\Delta = 67.5^\circ$									I.D. (IN.)	$\Delta = 90^\circ$									I.D. (IN.)
	G.F.T.	THRUST TONS	EARTH			ROCK			G.F.T.		THRUST TONS	EARTH			ROCK					
			A.F.T.	B.F.T.	VOLUME	A.F.T.	B.F.T.	VOLUME				A.F.T.	B.F.T.	VOLUME	A.F.T.	B.F.T.	VOLUME			
4,6.8	2.1	5.6	3.0	2.0	0.3	2.0	1.5	0.2	4,6.8	2.7	7.1	5.0	1.5	0.4	2.0	2.0	0.2	4,6.8		
10,12	3.1	12.6	5.5	2.5	0.8	3.5	2.0	0.4	10,12	4.0	16.0	6.5	2.5	1.0	3.5	2.5	0.5	10,12		
16,18	4.7	28.3	7.5	4.0	1.9	5.0	3.0	0.9	16,18	6.0	36.0	9.0	4.0	2.4	4.5	4.0	1.0	16,18		
20	5.2	34.9	9.0	4.0	2.3	5.5	3.5	1.2	20	6.6	44.4	10.0	4.5	3.1	6.0	4.0	1.5	20		
24	6.2	50.3	11.5	4.5	3.2	6.5	4.0	1.6	24	7.9	64.0	14.5	4.5	5.0	8.0	4.0	2.1	24		
30	7.8	58.9	12.0	5.0	4.8	7.5	4.0	2.2	30	9.9	75.0	15.0	5.0	6.7	10.0	4.0	3.3	30		
36	9.4	84.9	14.5	6.0	5.2	9.5	4.5	3.8	36	11.9	108.0	18.0	6.0	11.4	12.0	4.5	5.3	36		
42	10.9	115.5	17.0	7.0	12.8	11.0	5.5	6.3	42	13.9	147.0	21.0	7.0	17.8	17.0	5.5	8.7	42		
48	12.5	150.9	19.0	8.0	18.4	13.0	6.0	9.2	48	15.9	192.0	24.0	8.0	23.2	16.0	6.0	12.4	48		
54	14.0	191.0	21.5	9.0	26.0	15.0	6.5	12.9	54	17.9	243.0	27.0	9.0	36.9	18.0	7.0	18.1	54		
60	15.6	235.8	24.0	10.0	35.6	16.0	7.5	17.6	60	19.9	299.8	30.0	10.0	50.3	20.0	7.5	21.0	60		
66	17.1	285.3	26.0	11.0	46.0	18.0	8.0	23.0	66	21.8	362.8	33.0	11.0	66.2	22.0	8.5	32.5	66		
72	18.7	339.5	28.5	12.0	57.8	19.0	9.0	28.4	72	23.8	431.8	36.0	12.0	85.6	24.0	9.0	41.0	72		
78	20.2	398.5	31.0	13.0	75.7	21.0	9.5	37.4	78	25.7	506.7	39.0	13.0	128.2	26.0	10.0	53.2	78		
84	21.8	462.1	33.5	14.0	94.7	22.0	10.5	46.5	84	28.8	587.7	42.0	14.0	134.4	28.0	10.5	64.8	84		
90	23.3	530.5	35.5	15.0	114.4	24.5	11.0	58.2	90	29.0	674.6	45.0	15.0	164.9	30.0	11.5	81.2	90		
96	24.9	603.5	38.0	16.0	138.9	25.5	12.0	71.0	96	31.6	707.5	48.0	16.0	199.0	32.0	12.0	95.1	96		

(NO SCALE)

W-3C

SHEET
C811





I.D. (IN.)	TEES & PLUGS						I.D. (IN.)
	THRUST TONS	C.F.T.	EARTH		ROCK		
			A.F.T.	VOLUME C.Y.	A.F.T.	VOLUME C.Y.	
4,6,8	5.1	1.5	2.5	0.3	2.0	0.2	4,6,8
10,12	11.3	1.5	3.5	0.6	2.5	0.3	10,12
16,18	25.5	2.0	5.5	1.9	4.0	0.9	16,18
20	31.5	2.0	6.0	1.9	4.0	0.9	20
24	45.2	2.5	7.0	3.1	5.0	1.7	24
30	53.0	3.0	7.5	4.1	5.5	2.4	30
36	46.3	4.0	9.0	7.3	6.5	4.2	36
42	104.0	4.5	10.5	11.0	7.5	6.2	42
48	136.0	5.0	12.0	15.6	8.5	8.7	48
54	172.0	5.5	13.5	21.4	9.5	11.9	54
60	212.0	6.0	15.0	28.4	10.5	15.7	60
66	257.0	6.5	16.6	36.8	11.5	20.5	66
72	305.0	7.5	17.5	47.2	12.5	27.2	72
78	358.0	8.0	19.0	58.9	13.5	33.7	78
84	416.0	8.5	20.5	72.3	14.5	41.2	84
90	477.0	9.0	22.0	87.7	15.5	49.7	90
96	543.0	9.5	23.5	104.8	16.5	61.0	96

SEE W-3A FOR GENERAL NOTES

TEE AND PLUG THRUST BLOCKS

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

	ENGINEERING DIVISION		REVISIONS				DATE
			NO.	COMMENTS	BY	DATE	W-3D
##	DESCRIPTION	FL	MO/DY/YEAR				

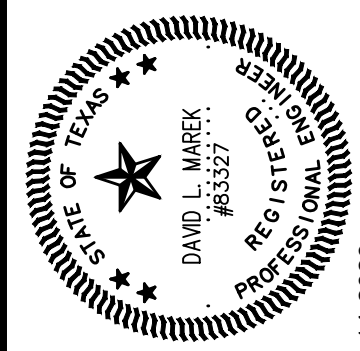


1. GATE VALVES SHALL BE DUCTILE IRON BODY, RESILIENT SEAT TYPE, WITH NON-RISING STEM, OPEN LEFT, 200 PSI WORKING PRESSURE AND CONFORM TO AWWA STANDARD C509 FOR RESILIENT SEATED GATE VALVES. T-HEAD BOLTS SHALL BE COR-BLUE, OTHER NUTS AND BOLTS SHALL BE STAINLESS STEEL.
2. ACCEPTABLE MANUFACTURERS ARE MUELLER, CLOW OR AFC.
3. CARE SHALL BE TAKEN WHEN INSTALLING VALVES TO ASSURE PROPER SUPPORT WHERE REQUIRED.
4. VALVES SHALL NOT BE PLACED IN CONCRETE VALLEY OR GUTTERS.
5. VALVE AND FITTING SHALL BE POLY-WRAPPED PER SPECIFICATIONS.
6. VALVE BOXES SHALL BE ADJUSTED TO FINAL FINISHED GRADE BY CONTRACTOR.
7. ALL VALVES SHALL BE OPEN LEFT (COUNTER-CLOCKWISE)
8. VALVE BOX SHALL NOT BE SUPPORTED BY THE WATER LINE.
9. VALVE BOX TO BE PLUMB AND CENTERED OVER OPERATING NUT.
10. VALVE BOX DETAILS SHALL APPLY TO BOTH NEW INSTALLATIONS AND ADJUSTMENT OF EXISTING VALVES.
11. WHEN ADJUSTING EXISTING VALVE BOXES, RECONNECT EXISTING TRACER WIRE IF PRESENT.

GATE VALVE AND VALVE BOX
(NO SCALE)

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

	ENGINEERING DIVISION		REVISIONS				DATE
			NO.	COMMENTS	BY	DATE	W-6
1	UPDATE REF TO STD DETAIL AND REPLACE NOTE	MZ	01/25/2023				
##	DESCRIPTION	FL	MM/DD/YYYY				



NO.	REVISION	BY	DATE
	VERIFY SCALE		BAR LENGTH EQUALS ONE INCH ON ORIGINAL
0	1		AND ADJUST SCALE ACCORDINGLY
			THIS SHEET

CITY OF WACO
SOUTH 11TH STREET IMPROVEMENTS

CITY OF WACO
WATER DETAILS

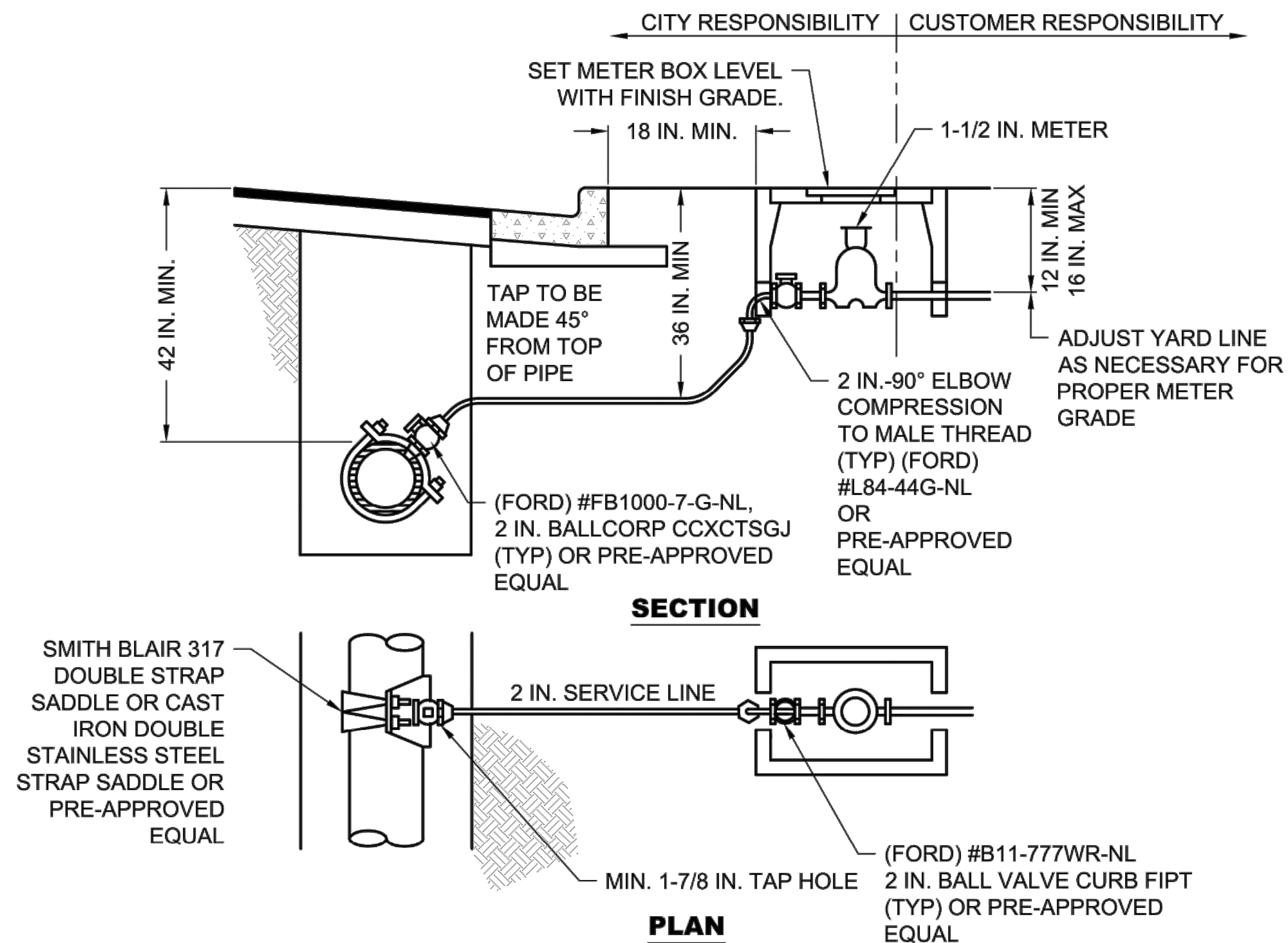
DESIGN: DLM
DRAWN: CDG
REVIEW: DLM
CP&Y: CWAC2200923
CLIENT:

SHEET
C812

PRINTED BY: emcdougald DATE: 4/12/2023
FILE PATH: G:\Projects\CWAC2200923-11th and Mary08_Plans_Drawings\20_Sheets\2200923-C80-DETAILS.dwg, C814

NOTES:

1. THE STANDARD METER BOX FOR 1-1/2 IN. METERS IS AN OLDCASTLE CHRISTY B65 SERIES METER BOX WITH DFW65C POLYMER LID WITH AMI HOLE OR PRE-APPROVED EQUAL.
2. METERS 2 IN. AND LARGER SHALL BE INSTALLED IN A CONCRETE VAULT.
3. SERVICE LINES SHALL BE ONE CONTINUOUS PIECE OF PIPE. JOINTS ARE ONLY ALLOWED AT THE CORPORATION STOP AND THE CURB STOP.
4. SWEATED, GALVANIZED, OR PVC JOINTS SHALL NOT BE ACCEPTED. NON-LEADED BRASS, COPPER TUBING WITH THREADED OR COMPRESSION COUPLINGS, OR POLY PIPE WITH STAINLESS STEEL INSERTS WILL BE ACCEPTED.
5. THE METER IS TO BE LOCATED IN A NON-TRAFFIC GREEN SPACE IN THE RIGHT OF WAY. ALL OTHER LOCATIONS MUST BE APPROVED BY THE CITY ENGINEER. WITH PRIOR APPROVAL FROM THE CITY, A METER MAY BE LOCATED IN AN AREA EXPOSED TO TRAFFIC. IN THIS CASE THE STANDARD BOX FOR METERS OF THESE SIZES IS AN OLDCASTLE CHRISTY N30 SERIES METER BOX WITH DFW1324C POLYMER LID WITH AMI HOLE OR PRE-APPROVED EQUAL.
6. ALL 1-1/2 IN. AND LARGER METERS SHALL BE SENSUS OMNI METERS WITH ITRON CONNECTORS.
7. CITY'S RESPONSIBILITY FOR LEAK REPAIR ENDS AT CONNECTION ON DOWNSTREAM SIDE OF THE METER UP TO AND INCLUDING THE METER BRASS.
8. MINIMUM COMMERCIAL SERVICE SIZE SHALL BE 2 IN.



TYPICAL COMMERCIAL OR LARGE RESIDENTIAL WATER METER SERVICE CONNECTION
(NO SCALE)

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.



**ENGINEERING
DIVISION**

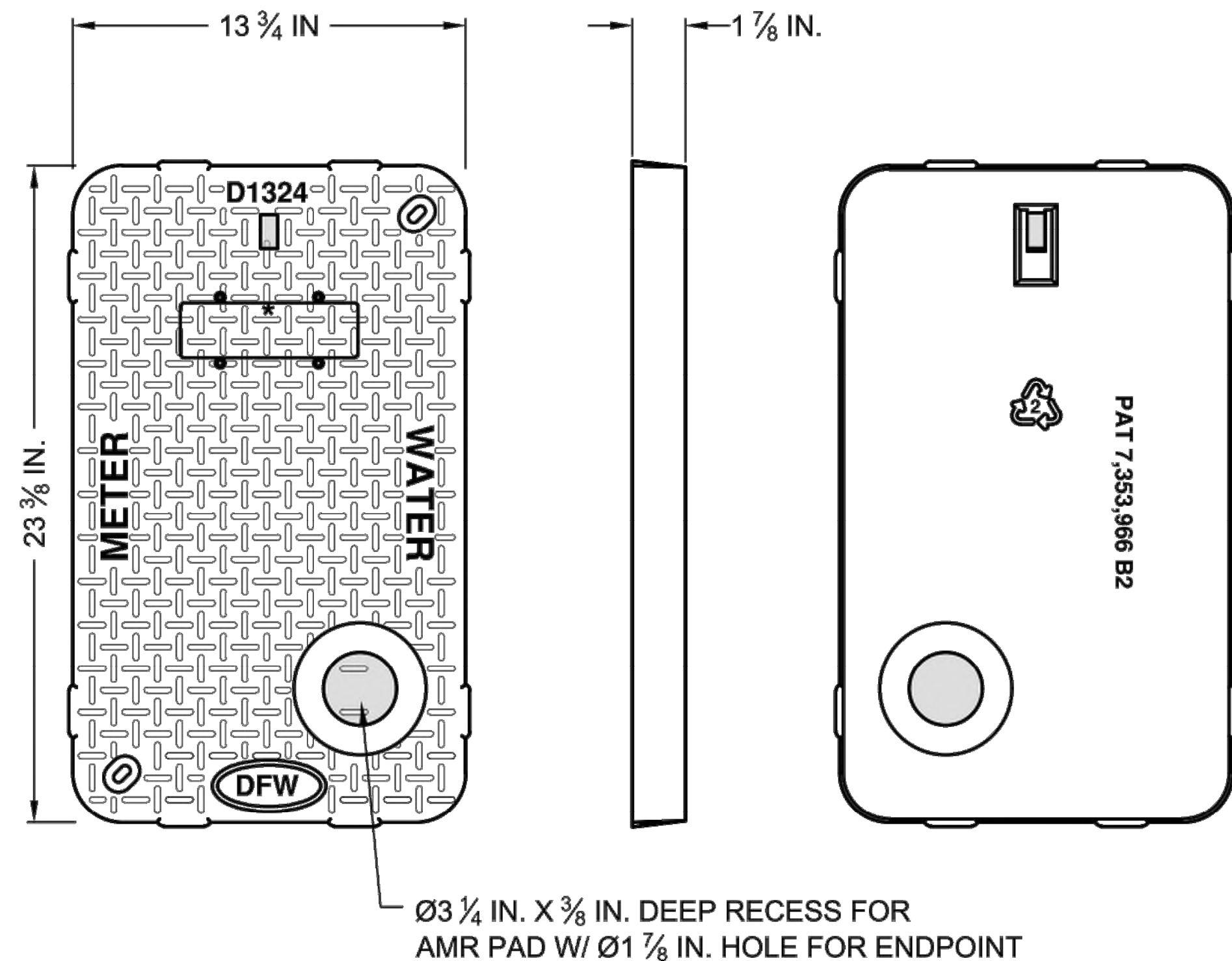


REVISIONS			
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1	REMOVE NOTE AND RENUMBER	MZ	01/25/2023
##	DESCRIPTION	FL	MM/DD/YYYY

DATE
8/25/2021

W-12

LID KEY	
AF	ANTI-FLOAT MATERIAL
1	BLACK COLOR
T	TOUCH READ HOLE
SMALL	BADGER/ITRON HOLE
<>	NO LID HOOK



NOTES:

1. REFERENCE DFW PLASTICS, INC. DETAIL "DFW1324C".
2. DIMENSIONS ARE ±1/8 IN. UNLESS NOTED OTHERWISE.
3. LID MATERIAL IS ANTI-FLOAT.
4. LID TO BE USED FOR CONCRETE METER BOXES IN TRAFFIC AREAS.

CONCRETE WATER METER BOX LID DETAILS (DFW1324C)
(NO SCALE)

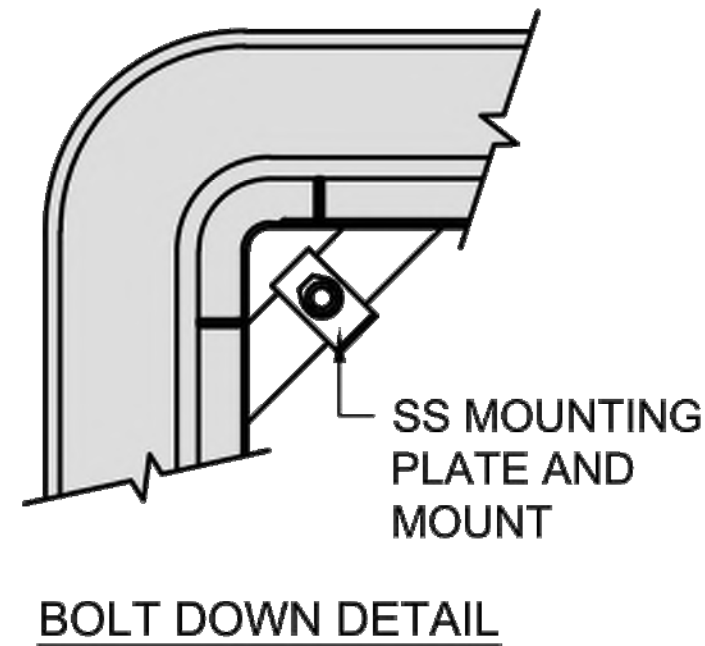
DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.



**ENGINEERING
DIVISION**



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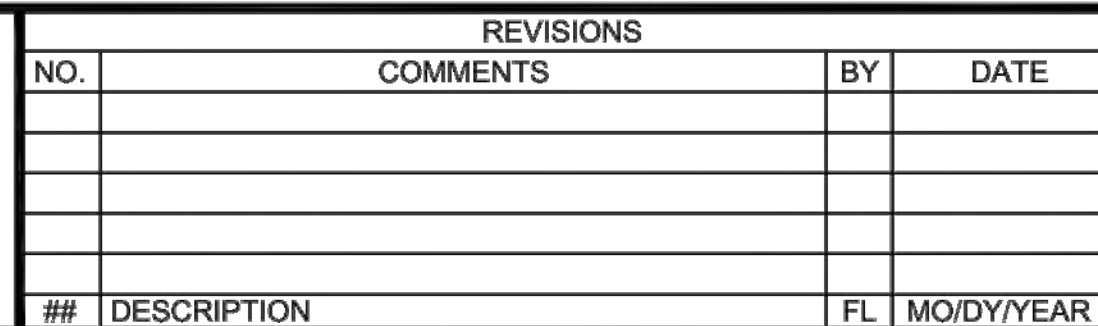


1. FOR USE IN TRAFFIC AREAS AND SIDEWALKS ONLY.
2. REFERENCE OLDCASTLE INFRASTRUCTURE CHRISTY® N30
3. BODY:

MATERIAL:	REINFORCED CONCRETE WITH COMPOSITE CAP.
MODEL:	18 IN. X 27 IN.
WEIGHT:	138 LBS.
WALL TYPE:	STRAIGHT
MOUSEHOLES:	0-2
PERFORMANCE:	ASTM C 857, WUC 3.6
4. EXTENSION:

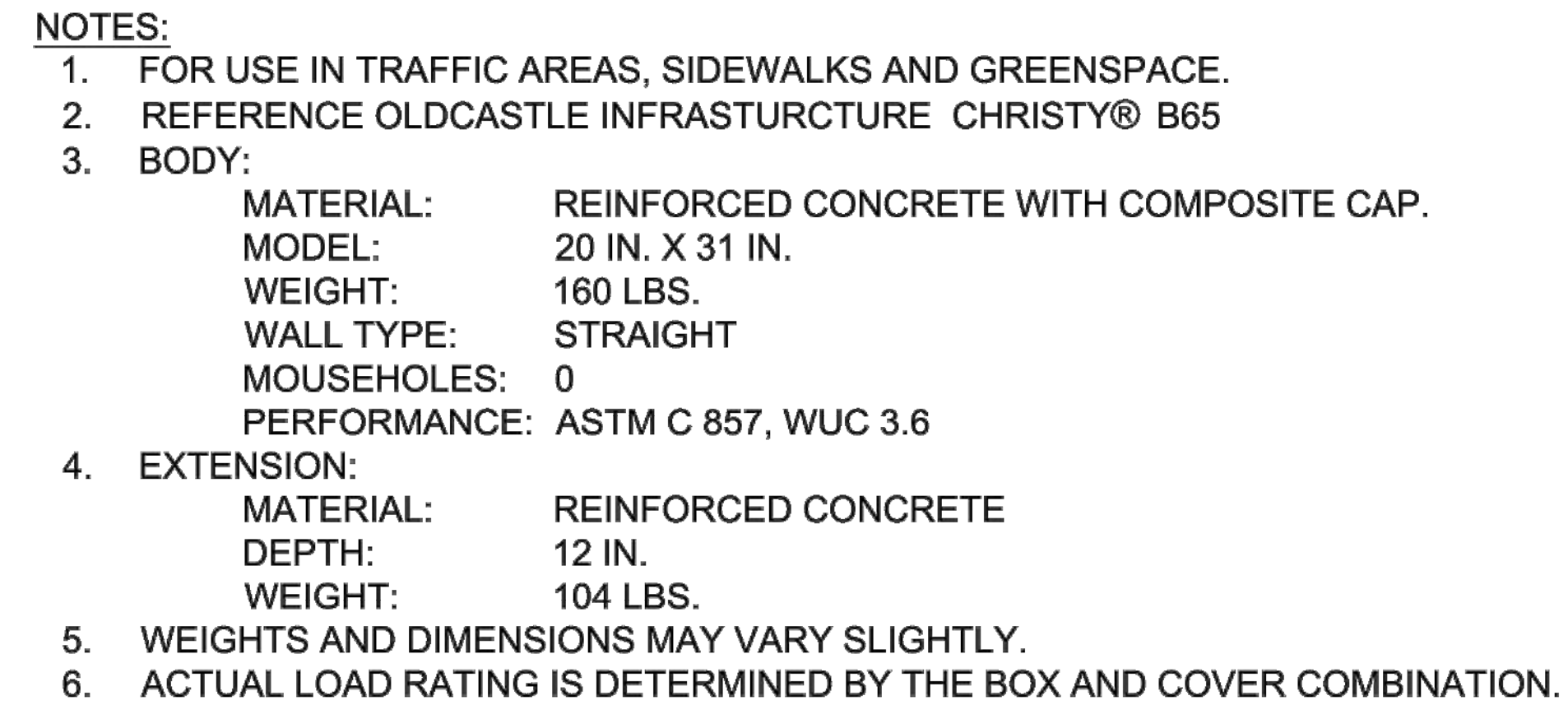
MATERIAL:	REINFORCED CONCRETE
DEPTH:	12 IN.
WEIGHT:	116 LBS.
5. WEIGHTS AND DIMENSIONS MAY VARY SLIGHTLY.
6. ACTUAL LOAD RATING IS DETERMINED BY THE BOX AND COVER COMBINATION.

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

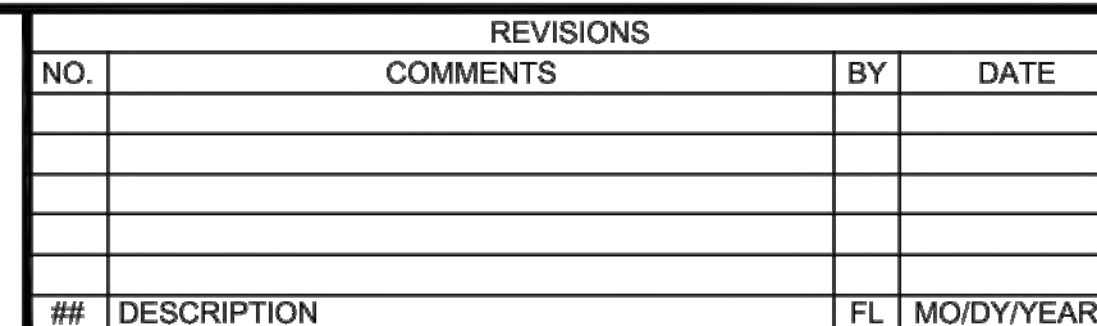


DATE
8/25/2021

W-17

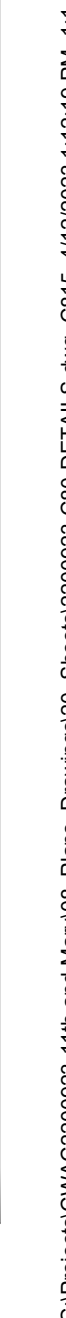


DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.



DATE
8/25/2021

W-18



SOUTH 11TH STREET IMPROVEMENTS

CITY OF WACO
WATER DETAILS

DESIGN: DLM
DRAWN: CDG
REVIEW: DLM
DATE: P&Y: CWAC2200923
CLIENT:

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C815

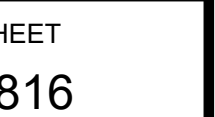
STORMWATER POLLUTION PREVENTION

GENERAL NOTES

1. ALL CONSTRUCTION WORK WITHIN THE CITY OF WACO MUST COMPLY WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES UNDER THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) PROGRAM, AND CITY OF WACO ORDINANCES AND STANDARD SPECIFICATIONS FOR CONSTRUCTION (SECTION GP-3.6.D STORMWATER POLLUTION PREVENTION PLAN (EROSION CONTROL PLAN)).
2. ALL STORMWATER POLLUTION PREVENTION AND EROSION CONTROL PLANS MUST BE APPROVED BY THE WATERSHED PROTECTION COMPLIANCE TEAM PRIOR TO INSTALLATION OF PROTECTIVE MEASURES. THE INSTALLATION OF THE PROTECTIVE MEASURES MUST BE INSPECTED AND APPROVED BY CITY OF WACO INSPECTION STAFF PRIOR TO COMMENCING ANY OTHER CONSTRUCTION ACTIVITY. FAILURE OF COMPLIANCE WILL BE SUBJECT TO CITY OF WACO FEE SCHEDULE.
3. ALL MATERIALS USED FOR STORMWATER POLLUTION PREVENTION SHALL MEET THE MINIMUM DESIGN AND SPECIFICATION REQUIREMENTS AS REFERENCED FROM THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) INTEGRATED STORMWATER MANAGEMENT (ISWM) DESIGN MANUAL FOR CONSTRUCTION. THE CONTRACTOR SHALL USE APPROPRIATE CONTROL DEVICES TO PROTECT AGAINST STORMWATER POLLUTION FROM CONSTRUCTION SITE ACTIVITY.
4. IN THE EVENT OF CONFLICT BETWEEN THE SPECIFIED REQUIREMENTS AND STORMWATER POLLUTION CONTROL LAWS, RULES, OR REGULATIONS, OR OTHER LOCAL, STATE, OR FEDERAL AGENCIES, THE MORE RESTRICTIVE LAWS, RULES OR REGULATIONS SHALL APPLY.
5. ALL PROTECTIVE MEASURES SHALL BE INSPECTED BY THE PRIMARY OPERATOR REGULARLY (AT LEAST AS OFTEN AS REQUIRED BY THE TPDES CONSTRUCTION GENERAL PERMIT).
6. ALL POLLUTION PREVENTION CONTROL STRUCTURES AND PROCEDURES MUST BE MAINTAINED IN FULL WORKING ORDER AT ALL TIMES DURING CONSTRUCTION. THIS SHALL INCLUDE ANY NECESSARY REPAIR OR REPLACEMENT OF ITEMS, WHICH HAVE BECOME DAMAGED OR INEFFECTIVE. REMOVE SEDIMENT AND OTHER POLLUTANTS, WHICH ACCUMULATE IN POLLUTION CONTROL DEVICES AS NECESSARY TO MAINTAIN THE INTENDED DESIGN EFFICIENCY FOR THE POLLUTION PREVENTION MEASURE.
7. UPON COMPLETION OF CONSTRUCTION AND ACHIEVEMENT OF FINAL STABILIZATION, PROPERLY REMOVE THE TEMPORARY POLLUTANT CONTROL STRUCTURES AND COMPLETE THE AREA AS INDICATED. POLLUTION CONTROL DEVICES MADE OF ORGANIC MATERIALS DESIGNED TO DEGRADE NATURALLY IN PLACE WILL NOT REQUIRE REMOVAL, UNLESS SPECIFICALLY REQUIRED BY THE OWNER, ENGINEER, OR OWNER'S REPRESENTATIVE.
8. STANDARD DETAILS FOR SOME PROTECTIVE MEASURES HAVE BEEN INCLUDED. PLEASE REFER TO THE ISWM DESIGN MANUAL FOR OTHER PROTECTIVE MEASURES AS NEEDED.

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##		DESCRIPTION	FL	MM/DD/YYYY	WP-1	

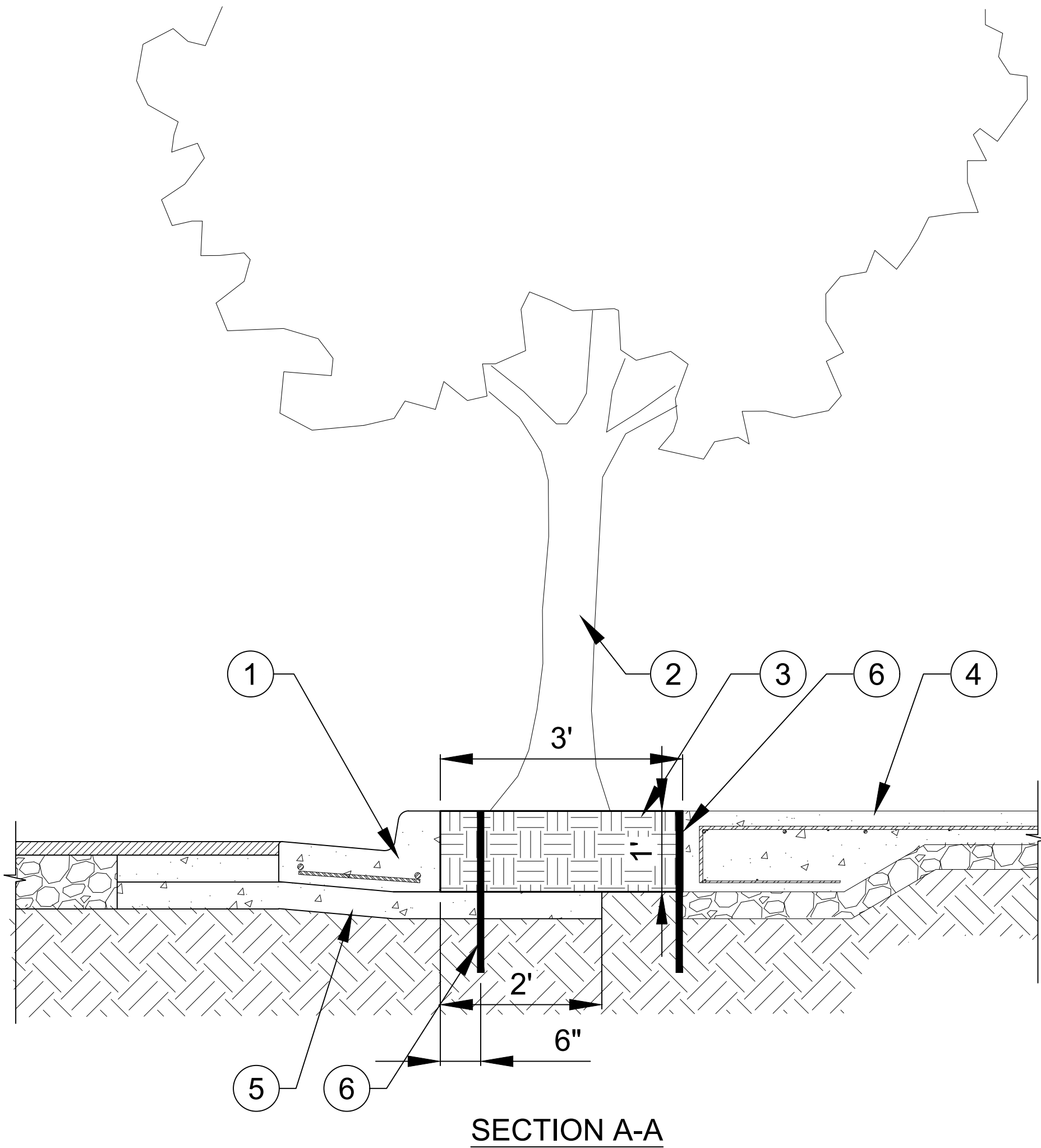
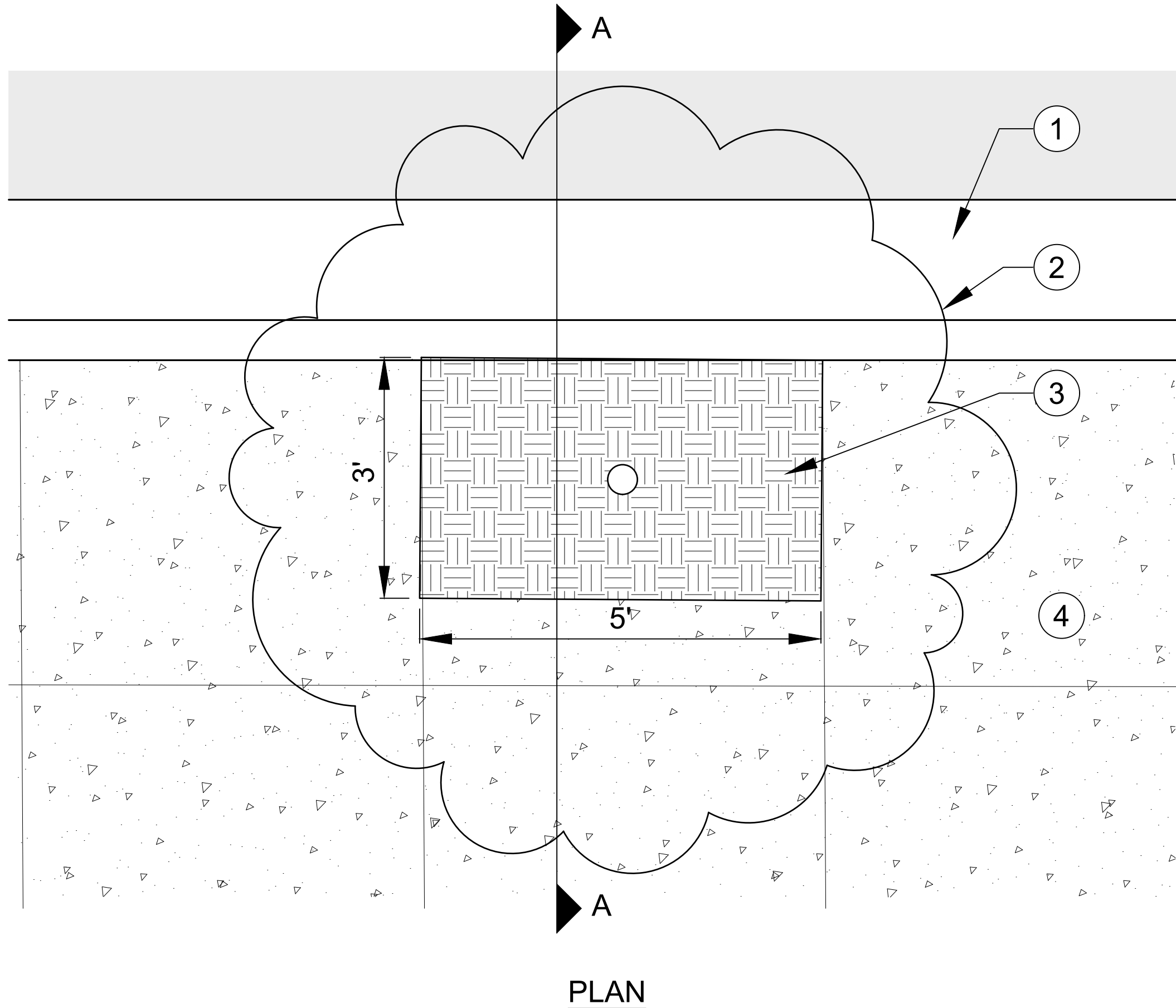
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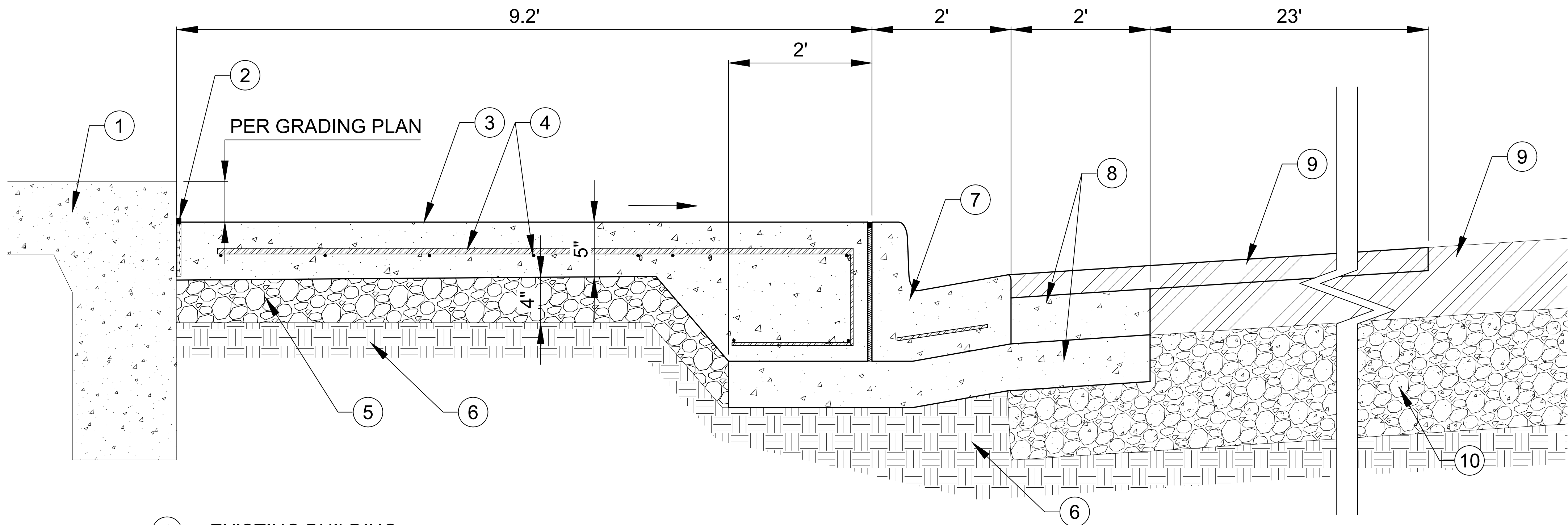
TREE WELL DETAIL

SCALE : 3/8" = 1'-0"



- ① STANDARD CURB & GUTTER
- ② PROPOSED TREE
- ③ CYPRESS MULCH. MIN 12" DEPTH
- ④ REINFORCED CONCRETE FLATWORK
- ⑤ BASE & SUBGRADE PER CITY OF WACO DETAIL ST-20.
AT TREE WELL, CONTRACTOR TO NOT EXTEND
CEMENT TREATED BASE BEYOND BACK OF CURB
- ⑥ TREE ROOT BARRIER MATERIAL SHALL BE PLACED 6"
BEHIND BACK OF CURB AND AT EDGE OF SIDEWALK
UNLESS OTHERWISE NOTED ON PLANS

PRINTED BY: emcdougald DATE: 4/12/2023
FILE PATH: G:\Projects\CWAC2200923-11th and Mary08_Plans_Drawings\20_Sheets\2200923-C80-DETAILS.dwg, C819



- 1 EXISTING BUILDING
- 2 ISOLATION JOINT
- 3 CONCRETE: TxDOT 421, CLASS 'A', SMOOTH BROOM FINISH
- 4 REINFORCEMENT: TxDOT 440, #4 @ 18" O.C.E.W., $F_y = 60,000$ PSI
- 5 4 INCH BASE. TYPE "A" MATERIAL PER STANDARD SPECIFICATIONS FOR CONSTRUCTION SECTION 4.2 EXCAVATION AND BACKFILL PART 2: PRODUCT A. MATERIALS 3. TRENCH BACKFILL A & SPECIAL SPECIFICATION SP4.2-003. TYPE 'A' MATERIAL OR RECYCLED CRUSHED CONCRETE (TxDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION ITEM 247 FLEXIBLE BASE TYPE D GRADE 1-2, EXCLUDING TYPE A MATERIAL, WITH MINIMUM P.I. OF FOUR) MECHANICALLY COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY (TEX-113-E). DEFINED AS "CURB BACKFILL" IN SELECT DETAILS.

- 6 COMPACT EXISTING SUBGRADE TO A MINIMUM OF 95% OF ASTM D698 MAX DRY DENSITY AT A MOISTURE CONTENT OF 0% TO +3% OF OPTIMUM MOISTURE CONTENT.
- 7 REINFORCED CONCRETE CURB & GUTTER
- 8 CONCRETE: 2,000 PSI
- 9 PAVING IMPROVEMENTS. SEE SITE PLAN / CROSS SECTIONS
- 10 EXISTING BASE TO REMAIN

NOTE:

PER GRADING PLAN, 1.5% MAX AS FORMED

1

SIDEWALK SECTION A

HORIZ SCALE : 1/2" = 1'-0" VERT SCALE: 1" = 1'-0"

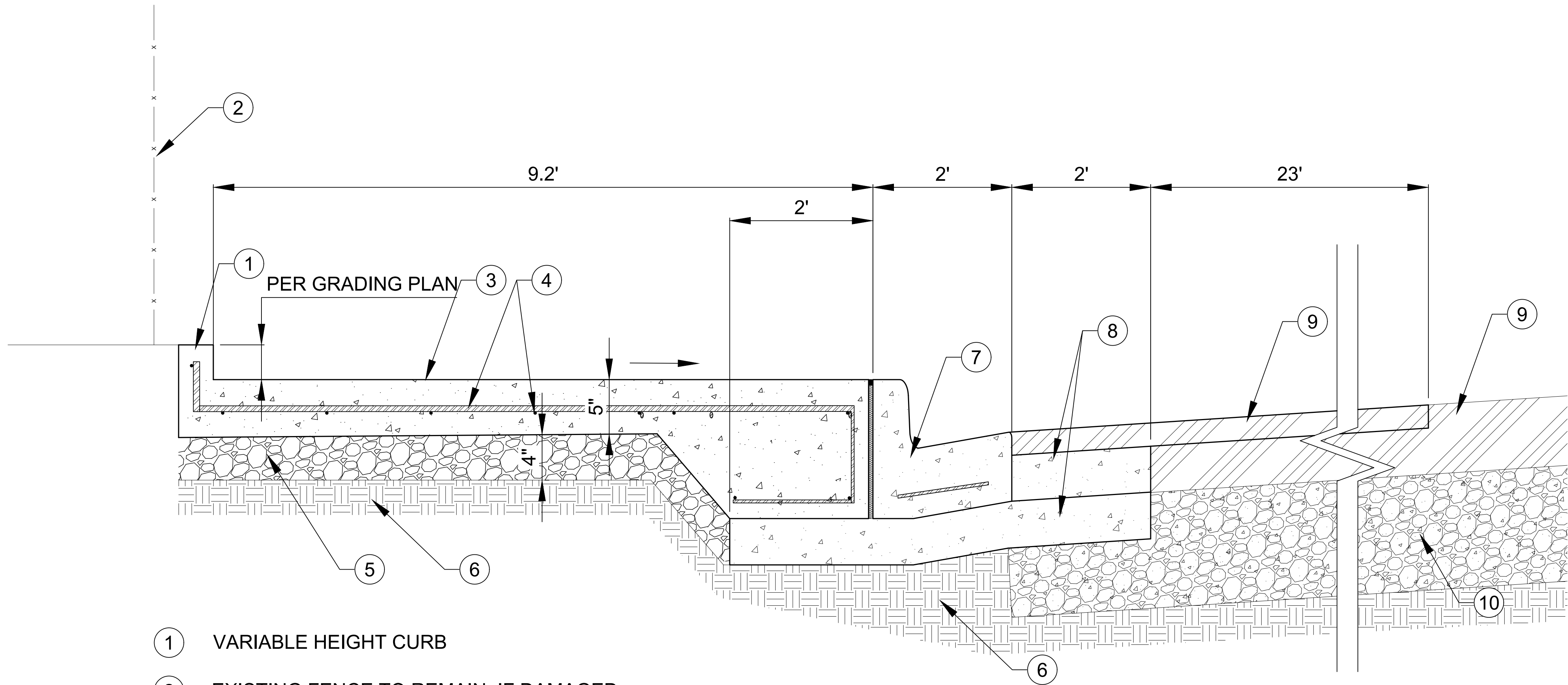
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	0	1" AND ADJUST SCALE ACCORDINGLY.	

CITY OF WACO
SOUTH 11TH STREET IMPROVEMENTS

SIDEWALK DETAILS

DESIGN: DLM
DRAWN: CDG
REVIEW: DLM
CP&Y: CWAC2200923
CLIENT:

SHEET
C819



- ① VARIABLE HEIGHT CURB
- ② EXISTING FENCE TO REMAIN. IF DAMAGED, CONTRACTOR TO REPLACE AT NO ADDITIONAL COST TO OWNER
- ③ CONCRETE: TxDOT 421, CLASS 'A', SMOOTH BROOM FINISH
- ④ REINFORCEMENT: TxDOT 440, #4 @ 18" O.C.E.W., $F_y = 60,000$ PSI
- ⑤ 4 INCH BASE. TYPE "A" MATERIAL PER STANDARD SPECIFICATIONS FOR CONSTRUCTION SECTION 4.2 EXCAVATION AND BACKFILL PART 2: PRODUCT A. MATERIALS 3. TRENCH BACKFILL A & SPECIAL SPECIFICATION SP4.2-003. TYPE 'A' MATERIAL OR RECYCLED CRUSHED CONCRETE (TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION ITEM 247 FLEXIBLE BASE TYPE D GRADE 1-2, EXCLUDING TYPE A MATERIAL, WITH MINIMUM P.I. OF FOUR) MECHANICALLY COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY (TEX-113-E). DEFINED AS "CURB BACKFILL" IN SELECT DETAILS.

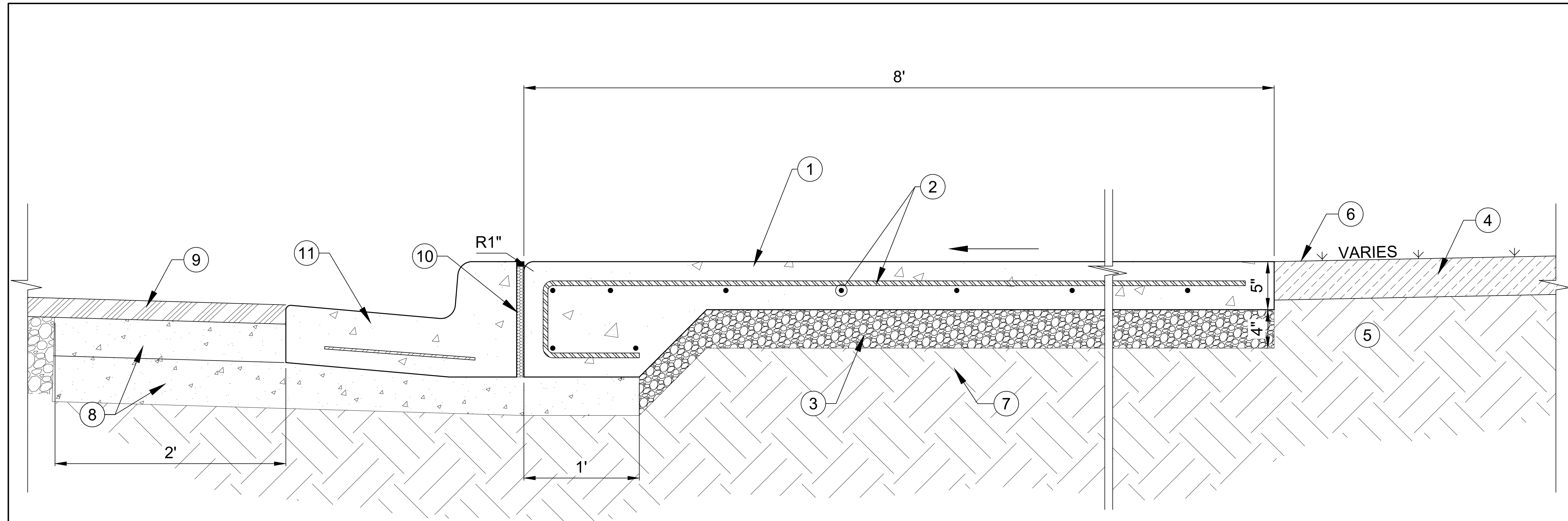
- ⑥ COMPACT EXISTING SUBGRADE TO A MINIMUM OF 95% OF ASTM D698 MAX DRY DENSITY AT A MOISTURE CONTENT OF 0% TO +3% OF OPTIMUM MOISTURE CONTENT.
- ⑦ REINFORCED CONCRETE CURB & GUTTER
- ⑧ CONCRETE: 2,000 PSI
- ⑨ PAVING IMPROVEMENTS. SEE SITE PLAN / CROSS SECTIONS
- ⑩ EXISTING BASE TO REMAIN

NOTE:
PER GRADING PLAN, 1.5% MAX AS FORMED

1

SIDEWALK SECTION B

SCALE : 1/2" = 1'-0"



- 1 CONCRETE: TxDOT 421, CLASS 'A', SMOOTH BROOM FINISH
- 2 REINFORCEMENT: TxDOT 440, #4 @ 18" O.C.E.W. $F_y=60,000$ PSI
- 3 4 INCH BASE. TYPE "A" MATERIAL PER STANDARD SPECIFICATIONS FOR CONSTRUCTION SECTION 4.2 EXCAVATION AND BACKFILL PART 2: PRODUCT A. MATERIALS 3. TRENCH BACKFILL A & SPECIAL SPECIFICATION SP4.2-003. TYPE 'A' MATERIAL OR RECYCLED CRUSHED CONCRETE (TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION ITEM 247 FLEXIBLE BASE TYPE D GRADE 1-2, EXCLUDING TYPE A MATERIAL, WITH MINIMUM P.I. OF FOUR) MECHANICALLY COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY (TEX-113-E). DEFINED AS "CURB BACKFILL" IN SELECT DETAILS.
- 4 4" RECLAIMED OR IMPORTED TOPSOIL
- 5 SELECT FILL AS NEEDED
- 6 SOLID BLOCK SOD
- 7 COMPACT EXISTING SUBGRADE TO A MINIMUM 95% OF ASTM D698 MAX DRY DENSITY WITHIN 0% TO +3% OPTIMUM MOISTURE CONTENT
- 8 CONCRETE: 2,000 PSI
- 9 HOT MIX ASPHALTIC CONCRETE: TxDOT ITEM 340, TYPE 'C'. THICKNESS: 2"
- 10 ISOLATION JOINT
- 11 REINFORCED CONCRETE CURB & GUTTER

NOTE:

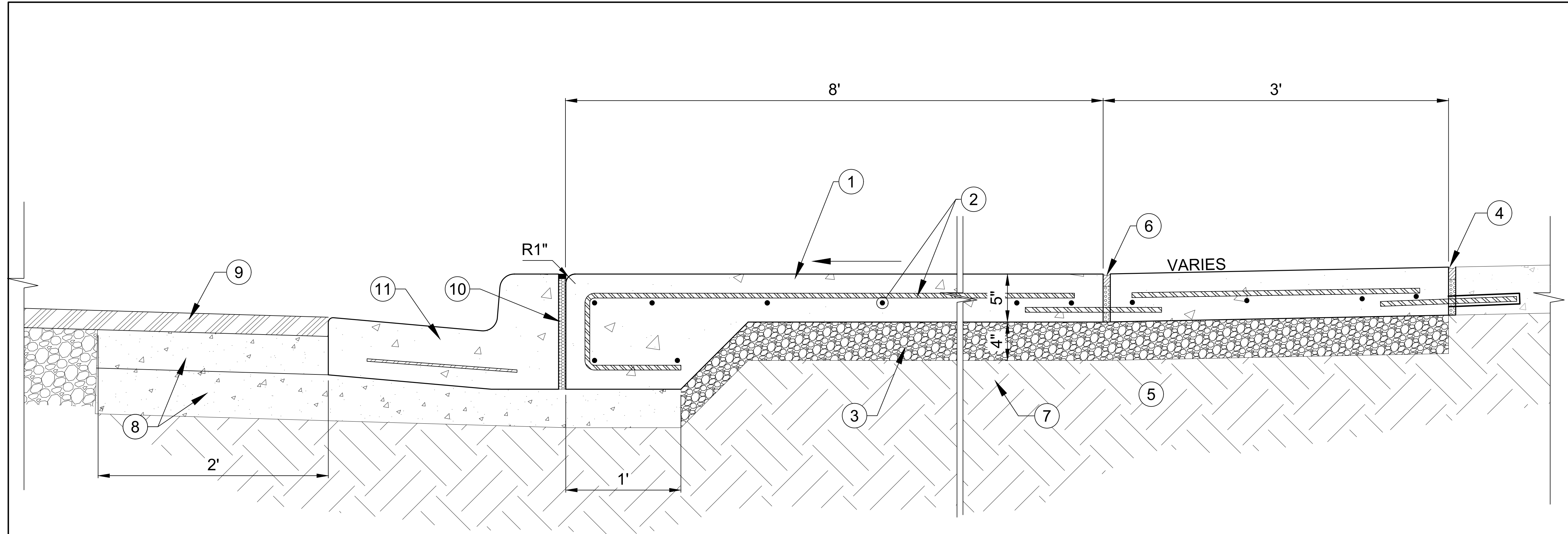
- SLOPE PER GRADING PLAN, 1.5% MAX AS FORMED

1

SIDEWALK SECTION C

SCALE : NTS

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- | | |
|--|---|
| ① CONCRETE: TxDOT 421, CLASS 'A', SMOOTH BROOM FINISH | ⑤ SELECT FILL AS NEEDED |
| ② REINFORCEMENT: TxDOT 440, #4 @ 18" O.C.E.W. $F_y=60,000$ PSI | ⑥ EXPANSION JOINT, REINFORCEMENT, TxDOT 440, #5 BAR @ 18" O.C. $F_y=60,000$ PSI, LENGTH = 24" |
| ③ 4 INCH BASE. TYPE "A" MATERIAL PER STANDARD SPECIFICATIONS FOR CONSTRUCTION SECTION 4.2 EXCAVATION AND BACKFILL PART 2: PRODUCT A. MATERIALS 3. TRENCH BACKFILL A & SPECIAL SPECIFICATION SP4.2-003. TYPE 'A' MATERIAL OR RECYCLED CRUSHED CONCRETE (TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION ITEM 247 FLEXIBLE BASE TYPE D GRADE 1-2, EXCLUDING TYPE A MATERIAL, WITH MINIMUM P.I. OF FOUR) MECHANICALLY COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY (TEX-113-E). DEFINED AS "CURB BACKFILL" IN SELECT DETAILS. | ⑦ COMPACT EXISTING SUBGRADE TO A MINIMUM 95% OF ASTM D698 MAX DRY DENSITY WITHIN 0% TO +3% OPTIMUM MOISTURE CONTENT |
| ④ CONNECT TO EXISTING CONCRETE FLATWORK | ⑧ CONCRETE: 2,000 PSI |
| | ⑨ HOT MIX ASPHALTIC CONCRETE: TxDOT ITEM 340, TYPE 'C'. THICKNESS: 2" |
| | ⑩ ISOLATION JOINT |
| | ⑪ REINFORCED CONCRETE CURB & GUTTER |

NOTE:

1. SLOPE PER GRADING PLAN, 1.5% MAX AS FORMED

1

SIDEWALK SECTION D

SCALE : NTS

NO.	REVISION	BY	DATE
	VERIFY SCALE	BAR LENGTH EQUALS ONE INCH ON ORIGINAL DRAWING. VERIFY LENGTH ON THIS SHEET.	
	0	1"	AND ADJUST SCALE ACCORDINGLY.

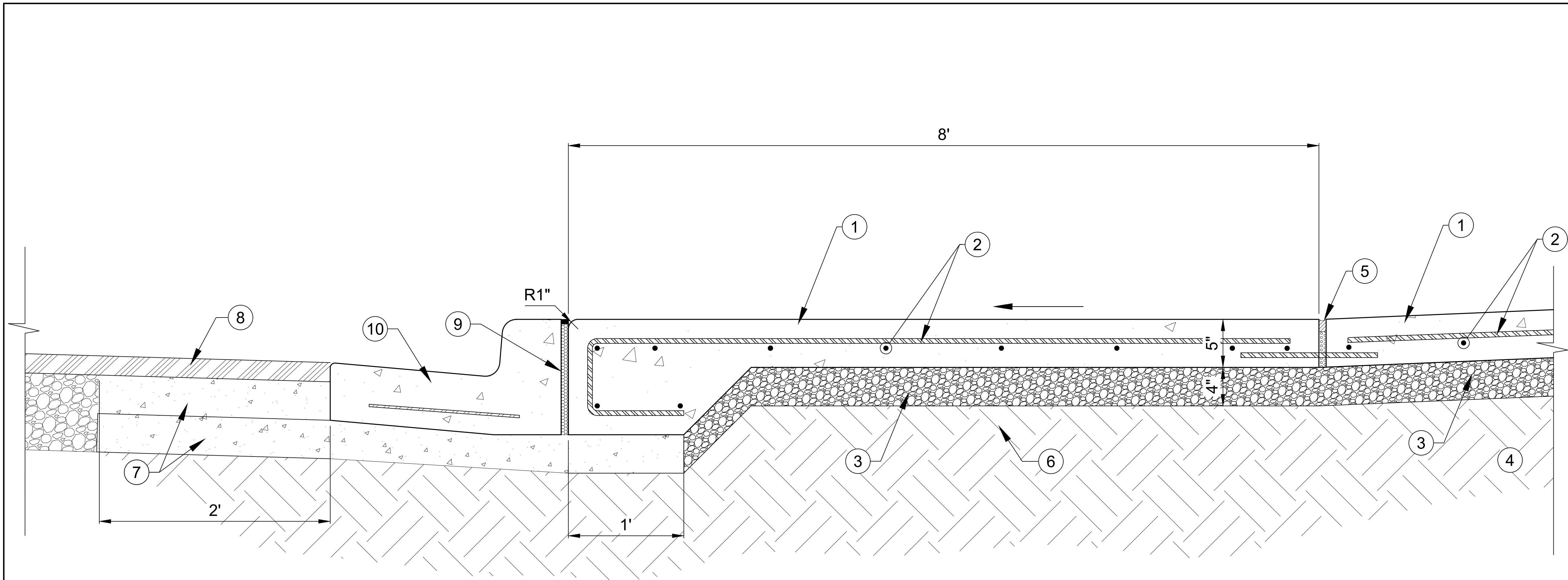
CITY OF WACO
SOUTH 11TH STREET IMPROVEMENTS

SIDEWALK DETAILS

DESIGN: DLM
DRAWN: ECM
REVIEW: DLM
CP&Y: CWAC2200923
CLIENT:

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- | | |
|--|---|
| ① CONCRETE: TxDOT 421, CLASS 'A', SMOOTH BROOM FINISH | ⑤ EXPANSION JOINT, REINFORCEMENT, TxDOT 440, #5 BAR @ 18" O.C. $F_y=60,000$ PSI, LENGTH = 24" |
| ② REINFORCEMENT: TxDOT 440, #4 @ 18" O.C.E.W. $F_y=60,000$ PSI | ⑥ COMPACT EXISTING SUBGRADE TO A MINIMUM 95% OF ASTM D698 MAX DRY DENSITY WITHIN 0% TO +3% OPTIMUM MOISTURE CONTENT |
| ③ 4 INCH BASE. TYPE "A" MATERIAL PER STANDARD SPECIFICATIONS FOR CONSTRUCTION SECTION 4.2 EXCAVATION AND BACKFILL PART 2: PRODUCT A. MATERIALS 3. TRENCH BACKFILL A & SPECIAL SPECIFICATION SP4.2-003. TYPE 'A' MATERIAL OR RECYCLED CRUSHED CONCRETE (TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION ITEM 247 FLEXIBLE BASE TYPE D GRADE 1-2, EXCLUDING TYPE A MATERIAL, WITH MINIMUM P.I. OF FOUR) MECHANICALLY COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY (TEX-113-E). DEFINED AS "CURB BACKFILL" IN SELECT DETAILS. | ⑦ CONCRETE: 2,000 PSI |
| ④ SELECT FILL AS NEEDED | ⑧ HOT MIX ASPHALTIC CONCRETE: TxDOT ITEM 340, TYPE 'C'. THICKNESS: 2" |
| | ⑨ ISOLATION JOINT |
| | ⑩ REINFORCED CONCRETE CURB & GUTTER |

NOTE:

1. SLOPE PER GRADING PLAN, 1.5% MAX AS FORMED

1

SIDEWALK SECTION E

SCALE : NTS

NO.	REVISION	BY	DATE
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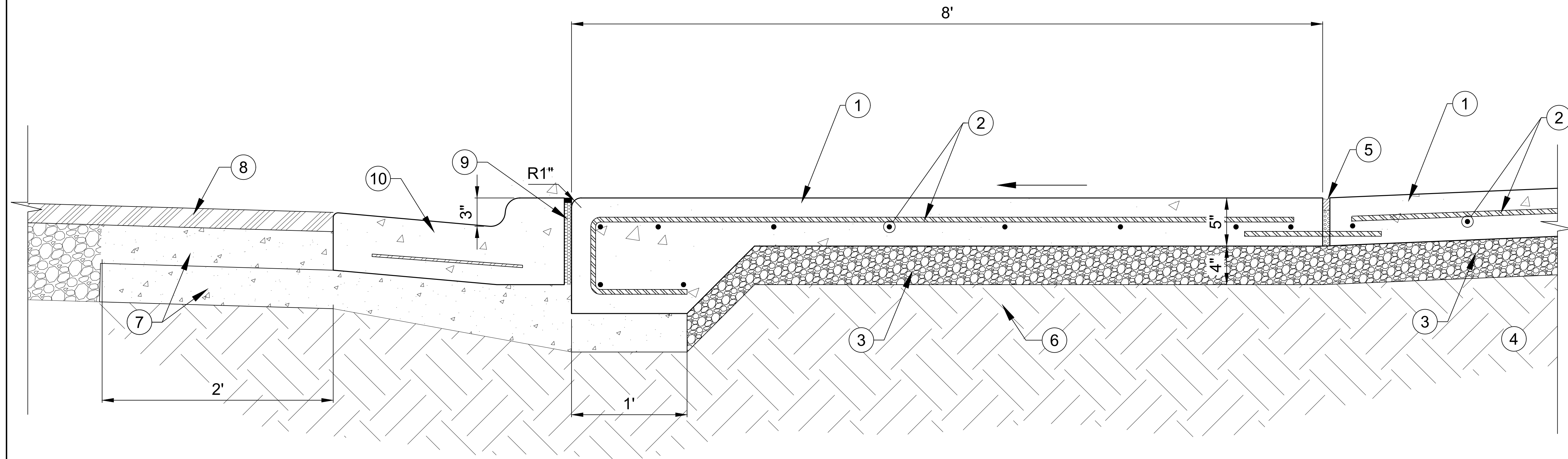
CITY OF WACO
SOUTH 11TH STREET IMPROVEMENTS

SIDEWALK DETAILS

DESIGN: DLM
DRAWN: ECM
REVIEW: DLM
CP&Y: CWAC2200923
CLIENT:

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PRINTED BY: emcdougald DATE: 4/12/2023
FILE PATH: G:\Projects\CWAC2200923-11th and Mary08_Plans_Drawings\20_Sheets\2200923-C80-DETAILS.dwg, C824



- ① CONCRETE: TxDOT 421, CLASS 'A', SMOOTH BROOM FINISH
- ② REINFORCEMENT: TxDOT 440, #4 @ 18" O.C.E.W. $F_y=60,000$ PSI
- ③ 4 INCH BASE. TYPE "A" MATERIAL PER STANDARD SPECIFICATIONS FOR CONSTRUCTION SECTION 4.2 EXCAVATION AND BACKFILL PART 2: PRODUCT A. MATERIALS 3. TRENCH BACKFILL A & SPECIAL SPECIFICATION SP4.2-003. TYPE 'A' MATERIAL OR RECYCLED CRUSHED CONCRETE (TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION ITEM 247 FLEXIBLE BASE TYPE D GRADE 1-2, EXCLUDING TYPE A MATERIAL, WITH MINIMUM P.I. OF FOUR) MECHANICALLY COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY (TEX-113-E). DEFINED AS "CURB BACKFILL" IN SELECT DETAILS.
- ④ SELECT FILL AS NEEDED
- ⑤ EXPANSION JOINT, REINFORCEMENT, TxDOT 440, #5 BAR @ 18" O.C. $F_y=60,000$ PSI, LENGTH = 24"
- ⑥ COMPACT EXISTING SUBGRADE TO A MINIMUM 95% OF ASTM D698 MAX DRY DENSITY WITHIN 0% TO +3% OPTIMUM MOISTURE CONTENT
- ⑦ CONCRETE: 2,000 PSI
- ⑧ HOT MIX ASPHALTIC CONCRETE: TxDOT ITEM 340, TYPE 'C'. THICKNESS: 2"
- ⑨ ISOLATION JOINT
- ⑩ REINFORCED CONCRETE 3" CURB & GUTTER

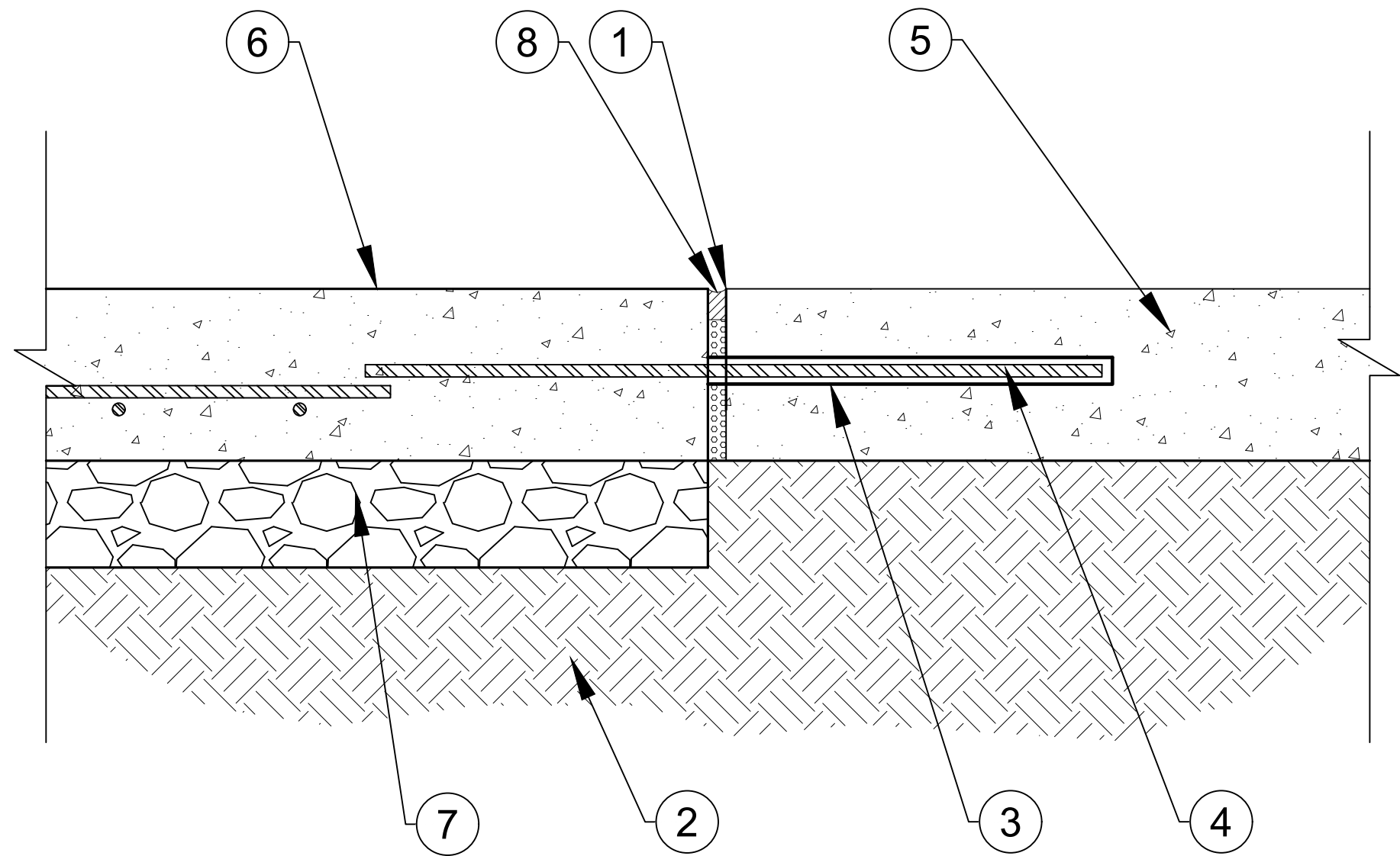
NOTE:

1. SLOPE PER GRADING PLAN, 1.5% MAX AS FORMED

1

SIDEWALK SECTION F

SCALE : NTS



- 1 CONTRACTOR TO SAW CUT EXISTING CONCRETE PAVEMENT IN SMOOTH, STRAIGHT LINE.
- 2 REINFORCEMENT: TxDOT 440, #5 DOWEL (SMOOTH) LENGTH: 24", $F_y = 60,000$ PSI
- 3 CONTRACTOR TO DRILL 3/4" $\varnothing$ HOLE IN EXISTING CONCRETE. USE AIR TO REMOVE DUST FROM DRILLED HOLE.
- 4 CONTRACTOR TO EPOXY GROUT # 5 DOWEL INTO DRILLED HOLE.
- 5 EXISTING CONCRETE FLATWORK
- 6 PROPOSED CONCRETE FLATWORK
- 7 4 INCH BASE. TYPE "A" MATERIAL PER STANDARD SPECIFICATIONS FOR CONSTRUCTION SECTION 4.2 EXCAVATION AND BACKFILL PART 2: PRODUCT A. MATERIALS 3. TRENCH BACKFILL A & SPECIAL SPECIFICATION SP4.2-003. TYPE 'A' MATERIAL OR RECYCLED CRUSHED CONCRETE (TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION ITEM 247 FLEXIBLE BASE TYPE D GRADE 1-2, EXCLUDING TYPE A MATERIAL, WITH MINIMUM P.I. OF FOUR) MECHANICALLY COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY (TEX-113-E). DEFINED AS "CURB BACKFILL" IN SELECT DETAILS.
- 8 EXPANSION JOINT, REINFORCEMENT, TxDOT 440, #5 BAR @ 18" O.C. $F_y = 60,000$ PSI, LENGTH = 24"

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CONN. TO EXIST. FLATWORK

SCALE : NTS

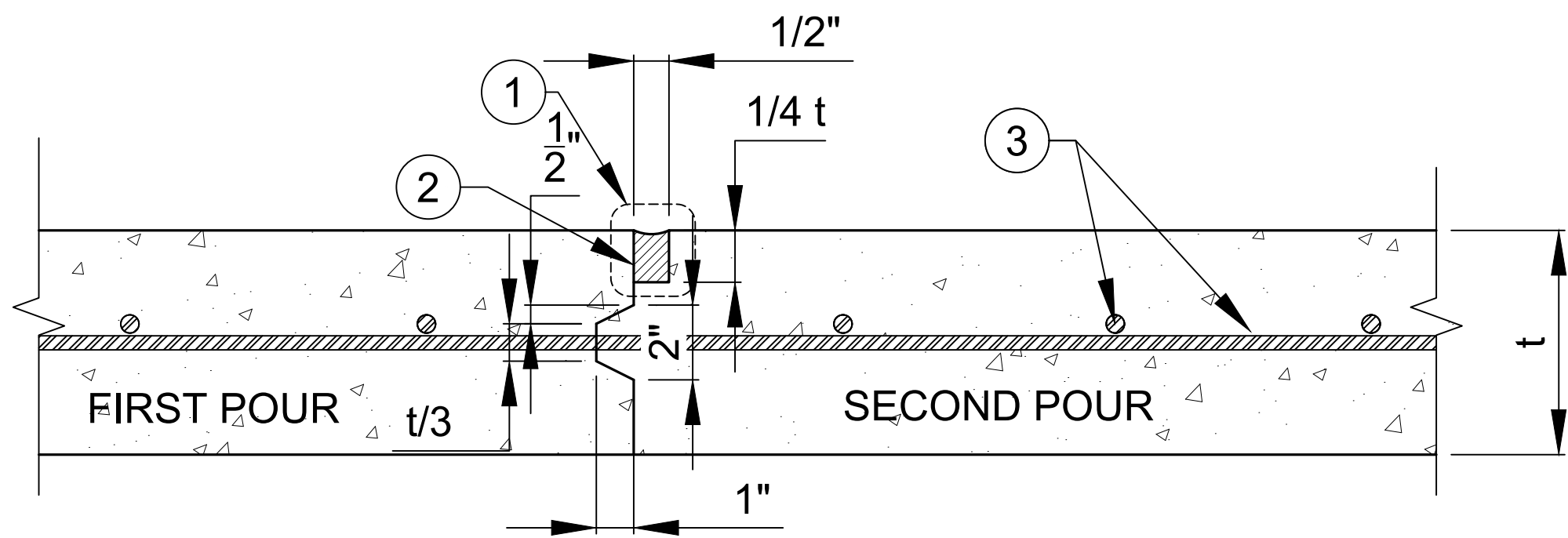
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CITY OF WACO
SOUTH 11TH STREET IMPROVEMENTS

SIDEWALK DETAILS

DESIGN: DLM
DRAWN: ECM
REVIEW: DLM
CP&Y: CWAC2200923
CLIENT:

SHEET
C825



- ① TYPICAL JOINT SEAL
- ② VERTICAL SAW CUT
- ③ REINFORCING AS SPECIFIED

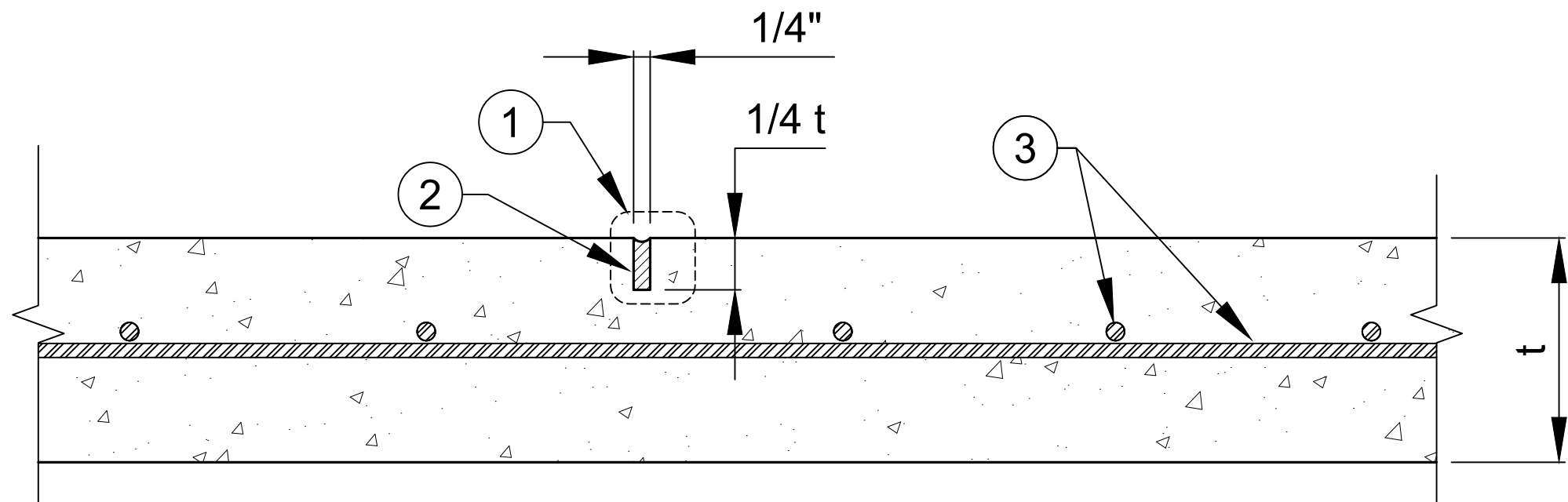
NOTE:
CONTRACTOR SHALL PROTECT KEYWAY PRIOR TO SECOND POUR. IF LONGITUDINAL KEYWAY IS DAMAGED, CONTRACTOR SHALL REPAIR WITH USE OF LONGITUDINAL BUTT JOINT. DRILL AND GROUT DOWELS INTO FIRST POUR.

t = THICKNESS OF SLAB

1

CONSTRUCTION JOINT DETAIL

SCALE : NTS



- ① TYPICAL JOINT SEAL
- ② VERTICAL SAW CUT
- ③ REINFORCING AS SPECIFIED

NOTE:
CONTRACTOR SHALL SAWCUT JOINT AS SOON AS CONCRETE CAN ACCEPT WEIGHT.

t = THICKNESS OF SLAB

2

CONTROL JOINT DETAIL

SCALE : NTS

NO.	REVISION	BY	DATE
VERIFY SCALE BAR LENGTH EQUALS ONE INCH ON ORIGINAL DRAWING. VERIFY LENGTH ON THIS SHEET 0 1" AND ADJUST SCALE ACCORDINGLY.			

CITY OF WACO
SOUTH 11TH STREET IMPROVEMENTS

JOINT DETAILS

DESIGN: DLM
DRAWN: ECM
REVIEW: DLM
CP&Y: CWAC2200923
CLIENT:

SHEET
C826

