

HARLINGEN

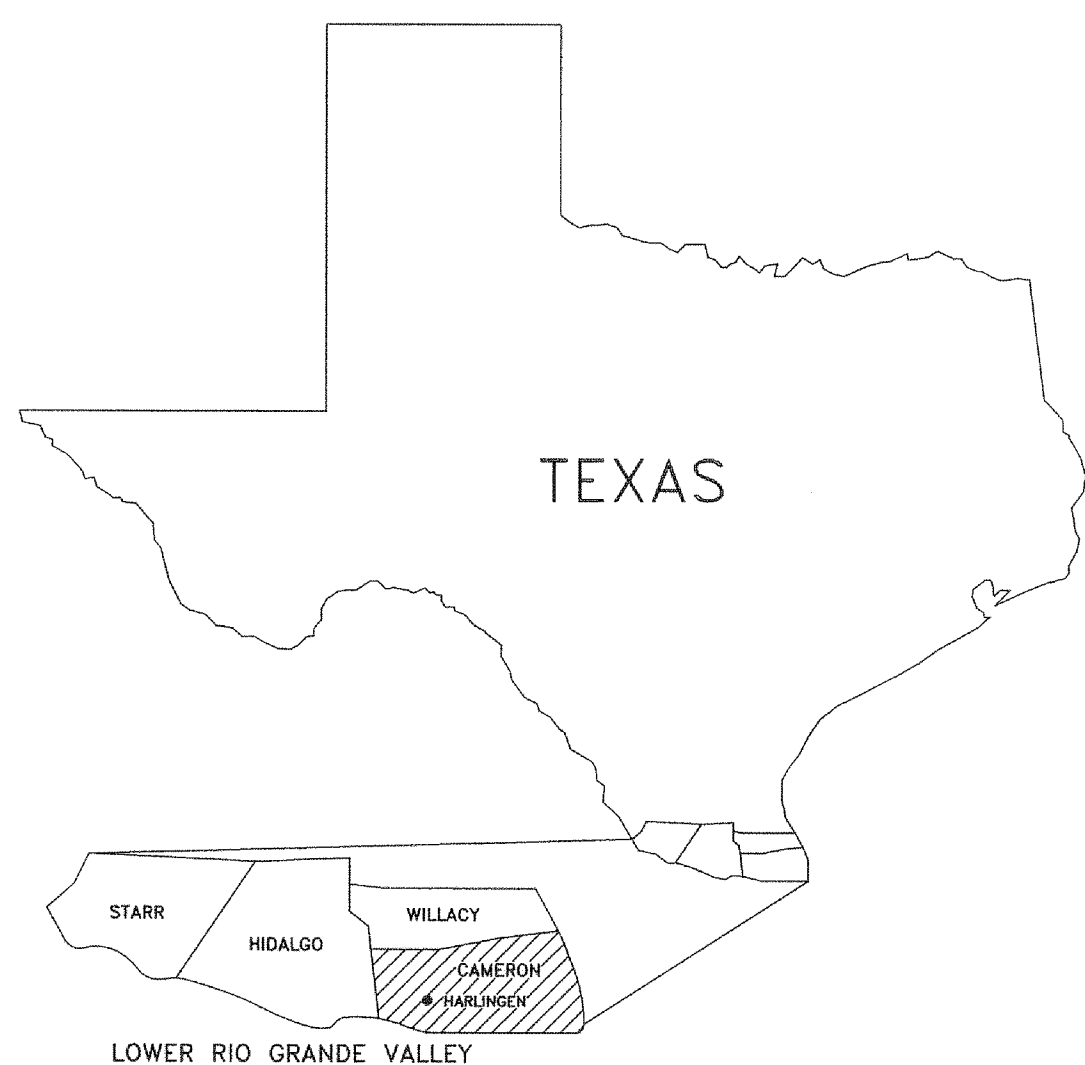
CONSOLIDATED INDEPENDENT SCHOOL DISTRICT

2018/2019 - HARLINGEN C.I.S.D. CIVIL SITE IMPROVEMENTS AT HARLINGEN HIGH SCHOOL, DR. ABRAHAM P. CANO FRESHMAN ACADEMY, STEM² PREPARATORY ACADEMY AND BOGGUS STADIUM

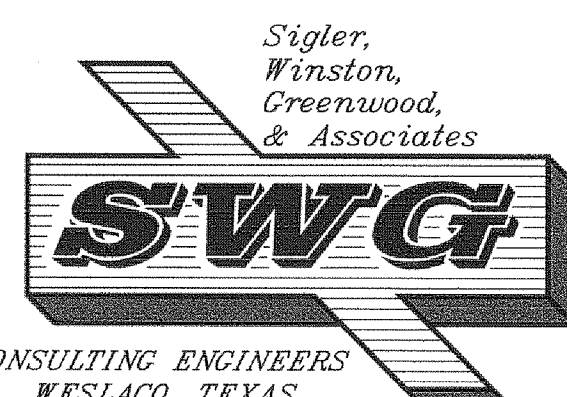
2018/2019
CNST 0319-1

BOARD OF TRUSTEES

GREG POWERS-----PRESIDENT
DR. NOLAN PEREZ-----VICE PRESIDENT
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JAVIER DE LEON-----MEMBER
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DR. BOBBY MUNIZ-----MEMBER
DR. ART J. CAVAZOS-----SUPERINTENDENT



2019



CONSULTING ENGINEERS
WESLACO, TEXAS
SWG ENGINEERING, LLC
TEXAS FIRM REGISTRATION NO. F-592
611 BILL SUMMERS INTL. BLVD.
WESLACO, TEXAS 78596
(956)-968-2194 OFFICE
(956)-968-8300 FAX
SINCE 1945

APPROVAL FOR CONSTRUCTION:

CITY OF HARLINGEN
City Engineer

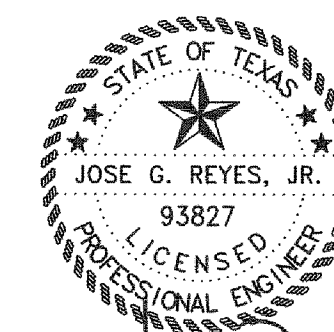
Ponciano Longoria, P.E.
Ponciano Longoria, P.E.
2/5/19
Date

HARLINGEN C.I.S.D.
Assistant Superintendent
District Operation

Oscar Tapia
Oscar Tapia
02/06/2019
Date

SWG ENGINEERING, LLC.
Project Engineer

Jose G. Reyes, Jr., P.E.
Jose G. Reyes, Jr., P.E.
FEB. 5. 2019
Date

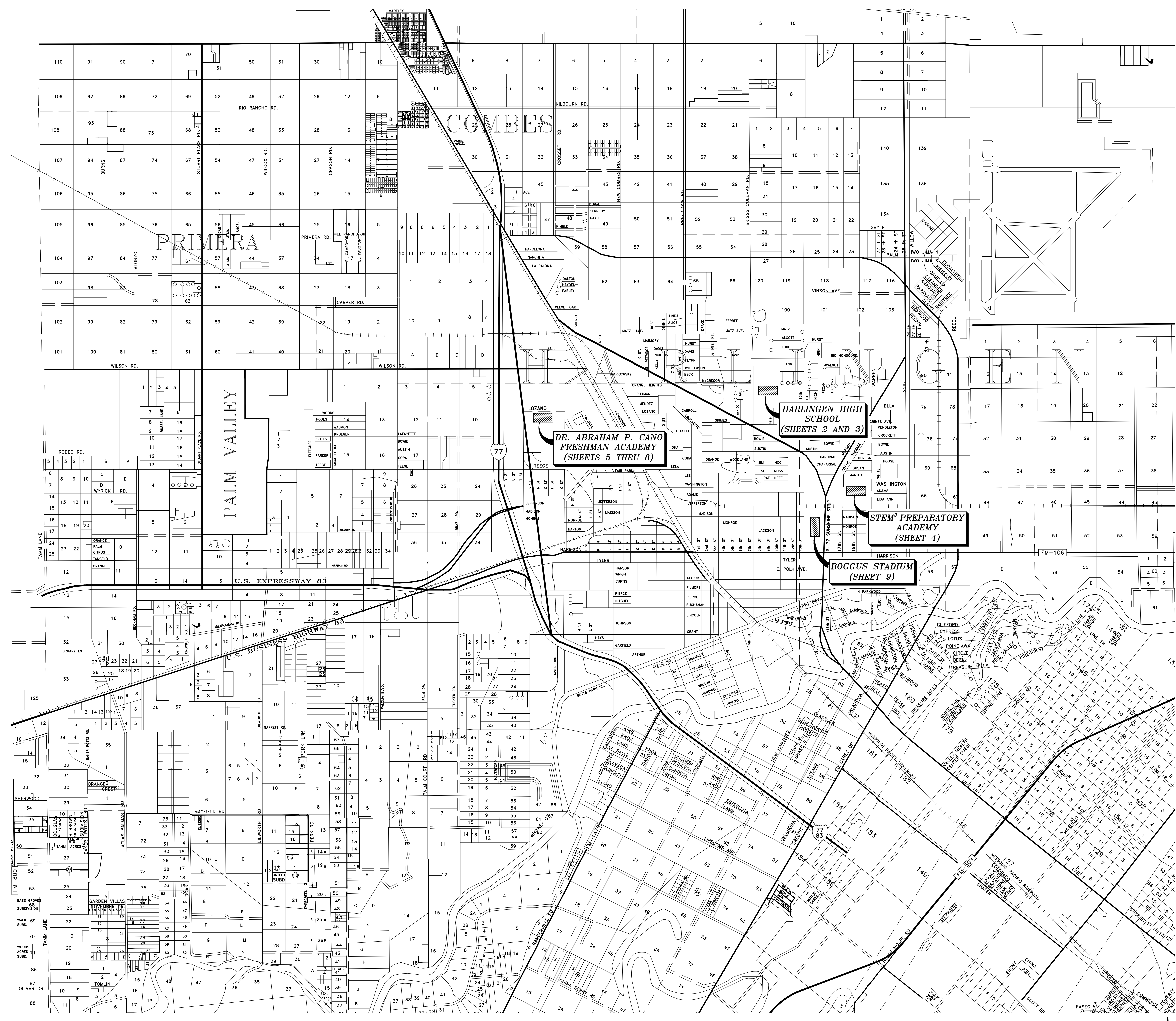


Jose G. Reyes, Jr., P.E.
2/5/2019

PROJECT NO. 18-104

PLAN SET NO. _____

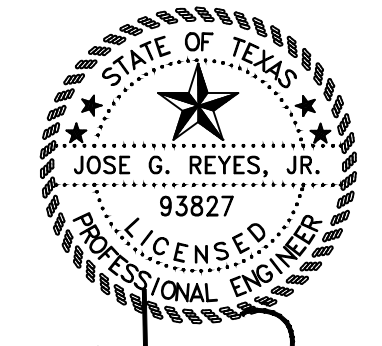
DATE _____



SHEET INDEX

- COVER SHEET
- 1. LOCATION MAP & SHEET INDEX
- 2. EXISTING SITE PLAN FOR HARLINGEN HIGH SCHOOL
- 3. PROPOSED SITE PLAN FOR HARLINGEN HIGH SCHOOL PROPOSED PAVING AND SIDEWALK IMPROVEMENTS
- 4. EXISTING AND PROPOSED SITE PLANS FOR STEM² PREPARATORY ACADEMY PROPOSED SIDEWALK IMPROVEMENTS
- 5-6. EXISTING SITE PLAN FOR DR. ABRAHAM P. CANO FRESHMAN ACADEMY
- 7-8. PROPOSED SITE PLAN FOR DR. ABRAHAM P. CANO FRESHMAN ACADEMY PROPOSED PAVING AND PARKING LOT IMPROVEMENTS
- 9. EXISTING AND PROPOSED SITE PLANS FOR BOGGUS STADIUM PROPOSED SANITARY SEWER IMPROVEMENTS
- 10. CONSTRUCTION DETAILS
- 11. BARRICADE AND CONSTRUCTION STANDARDS
- 12. TRAFFIC CONTROL PLAN
- 13. BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES STANDARDS
- 14. TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES (FENCE AND BALED HAY)
- 15. GENERAL NOTES AND SPECIFICATIONS

LOCATION MAP

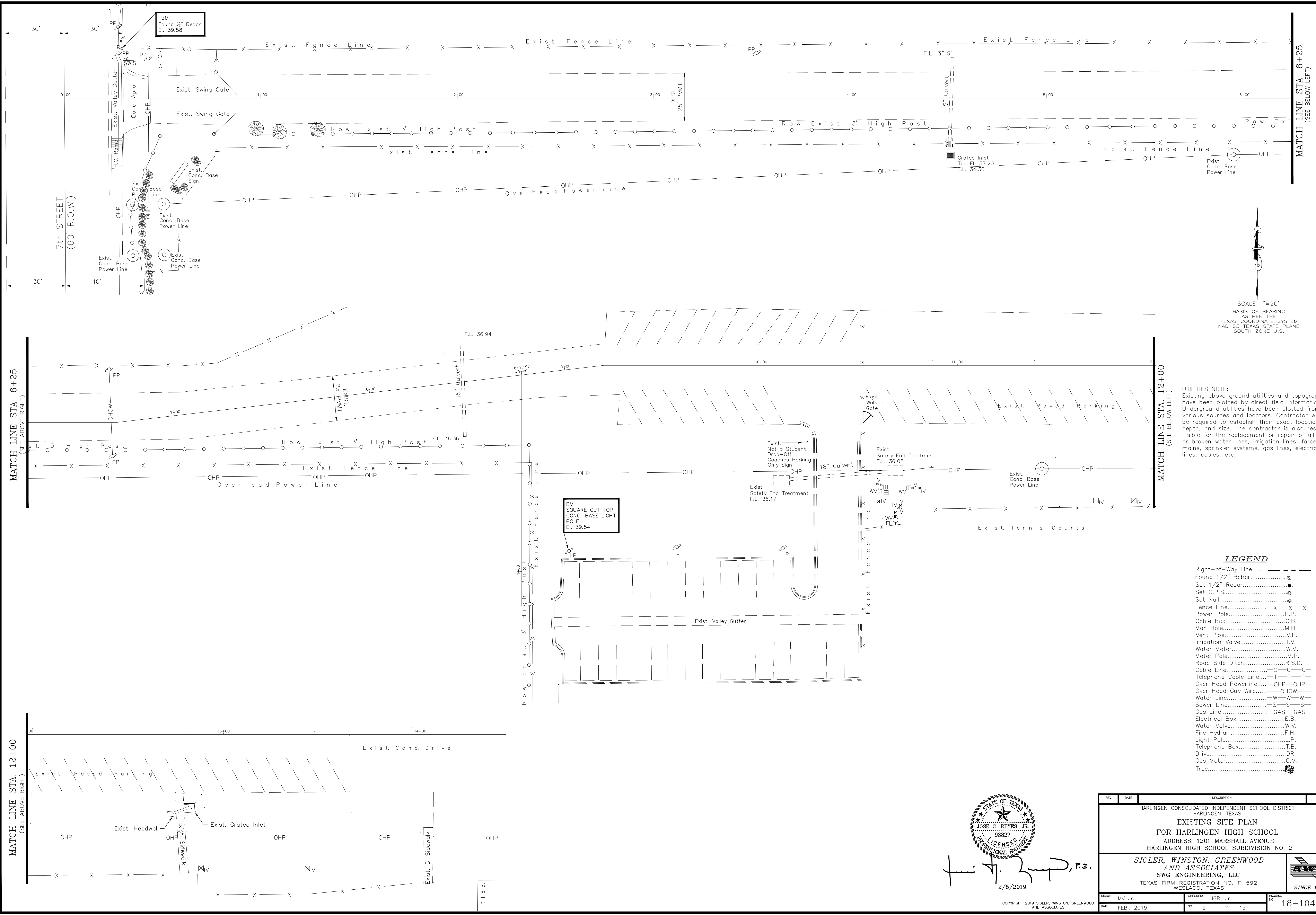


Jose G. Reyes, Jr., P.E.
2/5/2019

REV.	DATE	DESCRIPTION	BY
HARLINGEN CONSOLIDATED INDEPENDENT SCHOOL DISTRICT HARLINGEN, TEXAS 2018-HARLINGEN C.I.S.D. CIVIL SITE IMPROVEMENTS AT HARLINGEN HIGH SCHOOL, DR. ABRAHAM P. CANO FRESHMAN ACADEMY, STEM ² PREPARATORY ACADEMY AND BOGGUS STADIUM LOCATION MAP & SHEET INDEX			
SIGLER, WINSTON, GREENWOOD AND ASSOCIATES SWG ENGINEERING, LLC TEXAS FIRM REGISTRATION NO. F-592 WESLACO, TEXAS			
DRAWN: MV Jr. DATE: FEB., 2019	CHECKED: J.G.R. Jr. NO. 1 OF 15	DRAWING NO.: 18-104-1	SINCE 1945

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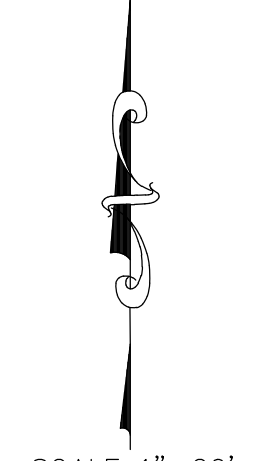


MATCH LINE STA. 6+25
(SEE BELOW LEFT)

MATCH LINE STA. 6+25
(SEE ABOVE RIGHT)

MATCH LINE STA. 12+00
(SEE BELOW LEFT)

MATCH LINE STA. 12+00
(SEE ABOVE RIGHT)

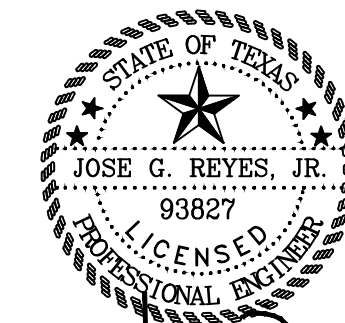


SCALE 1"=20'
BASIS OF BEARING
AS PER THE
TEXAS COORDINATE SYSTEM
NAD 83 TEXAS STATE PLANE
SOUTH ZONE U.S.

UTILITIES NOTE:
Existing above ground utilities and topography
have been plotted by direct field information.
Underground utilities have been plotted from
various sources and locators. Contractor will
be required to establish their exact location,
depth, and size. The contractor is also respon-
sible for the replacement or repair of all cut
or broken water lines, irrigation lines, force
mains, sprinkler systems, gas lines, electrical
lines, cables, etc.

LEGEND

- Right-of-Way Line.....
- Found 1/2" Rebar.....
- Set 1/2" Rebar.....
- Set C.P.S.....
- Set Nail.....
- Fence Line.....
- Power Pole.....
- Cable Box.....
- Man Hole.....
- Vent Pipe.....
- Irrigation Valve.....
- Water Meter.....
- Meter Pole.....
- Road Side Ditch.....
- Cable Line.....
- Telephone Cable Line.....
- Over Head Powerline.....
- Over Head Guy Wire.....
- Water Line.....
- Sewer Line.....
- Gas Line.....
- Electrical Box.....
- Water Valve.....
- Fire Hydrant.....
- Light Pole.....
- Telephone Box.....
- Drive.....
- Gas Meter.....
- Tree.....

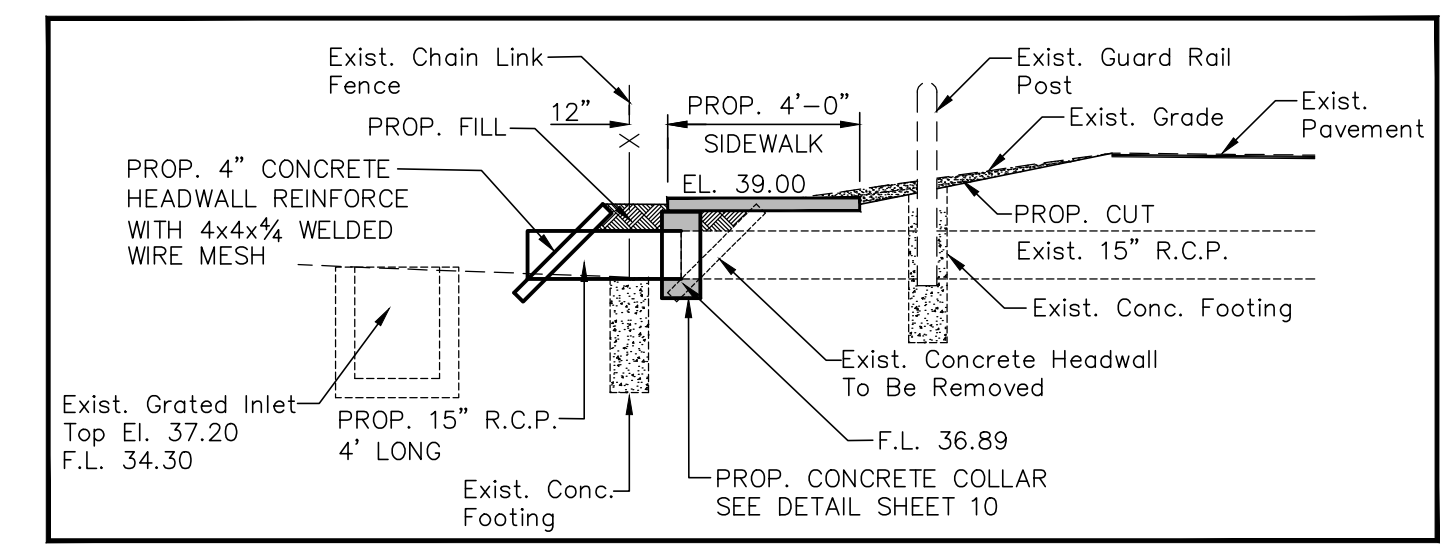
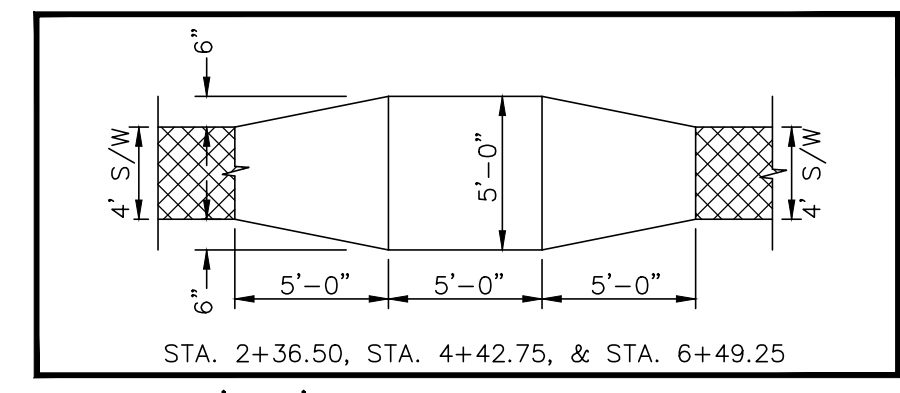
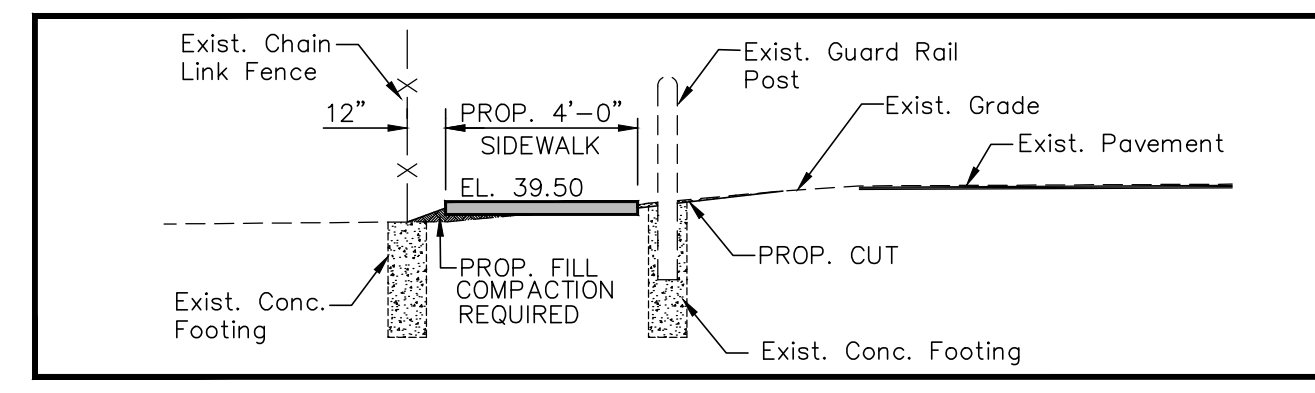
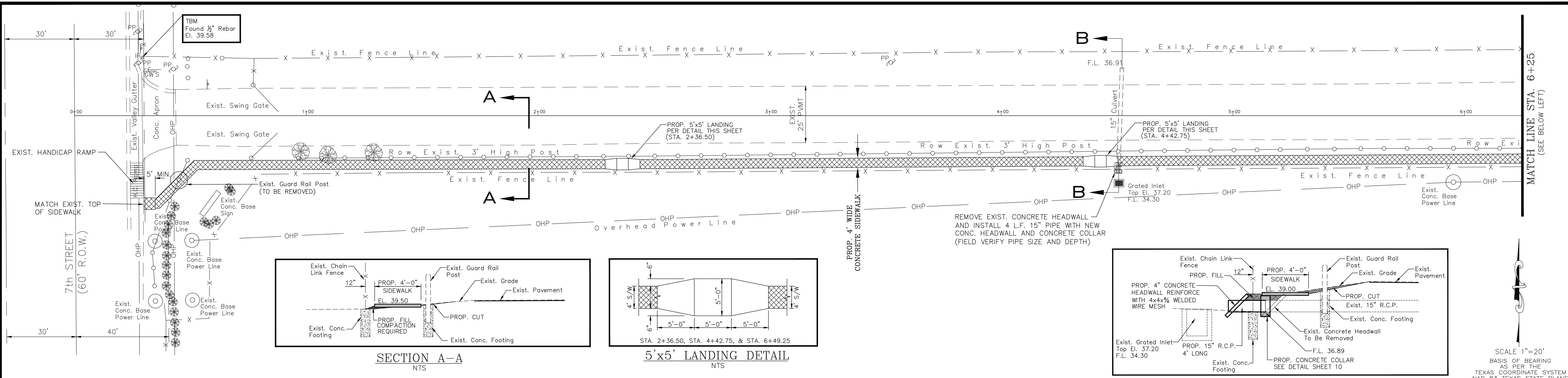


Jose G. Reyes, Jr., P.E.
2/5/2019

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AND ASSOCIATES

REV.	DATE	DESCRIPTION	BY
HARLINGEN CONSOLIDATED INDEPENDENT SCHOOL DISTRICT HARLINGEN, TEXAS EXISTING SITE PLAN FOR HARLINGEN HIGH SCHOOL ADDRESS: 1201 MARSHALL AVENUE HARLINGEN HIGH SCHOOL SUBDIVISION NO. 2			
SIGLER, WINSTON, GREENWOOD AND ASSOCIATES SWG ENGINEERING, LLC TEXAS FIRM REGISTRATION NO. F-592 WESLACO, TEXAS			
DRAWN	DATE	CHECKED	DRAWING NO.
MV, Jr.	FEB. 2019	JGR, Jr.	18-104-2
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		2	15



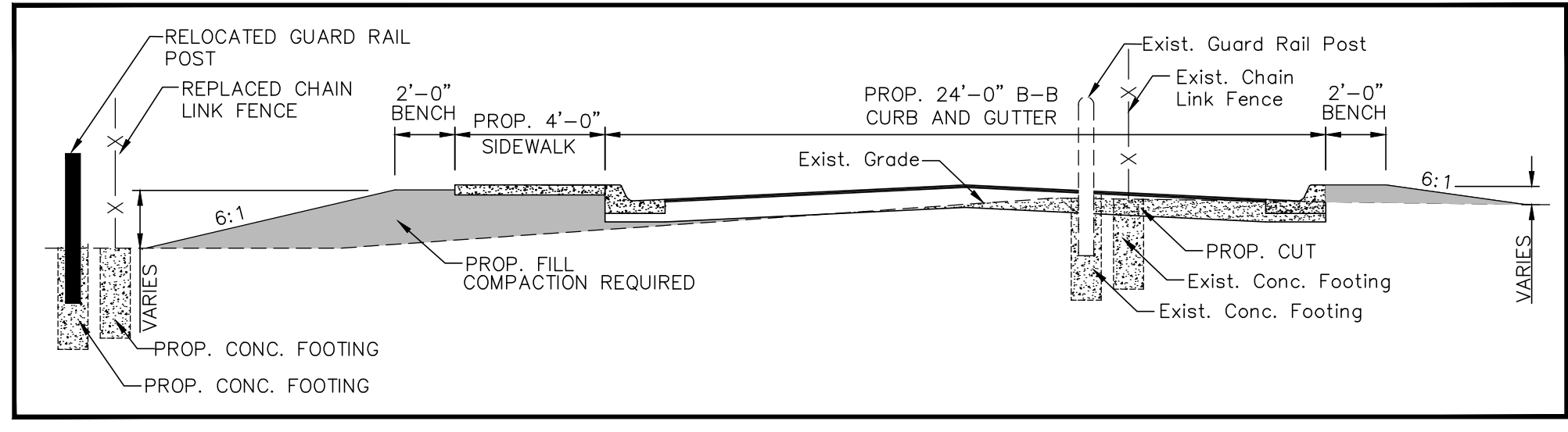
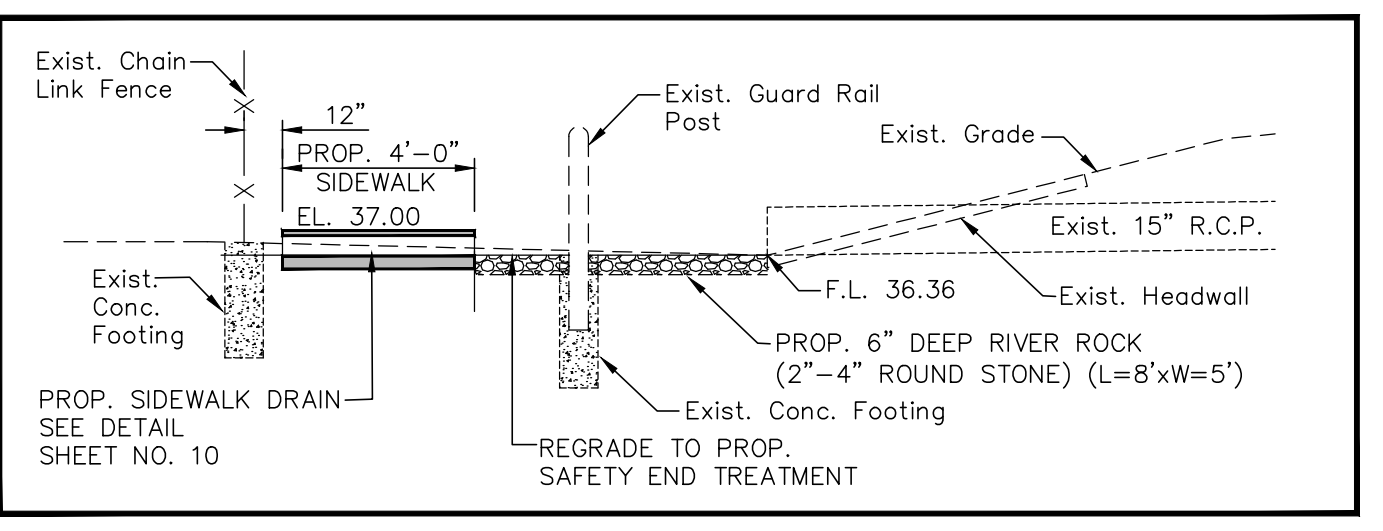
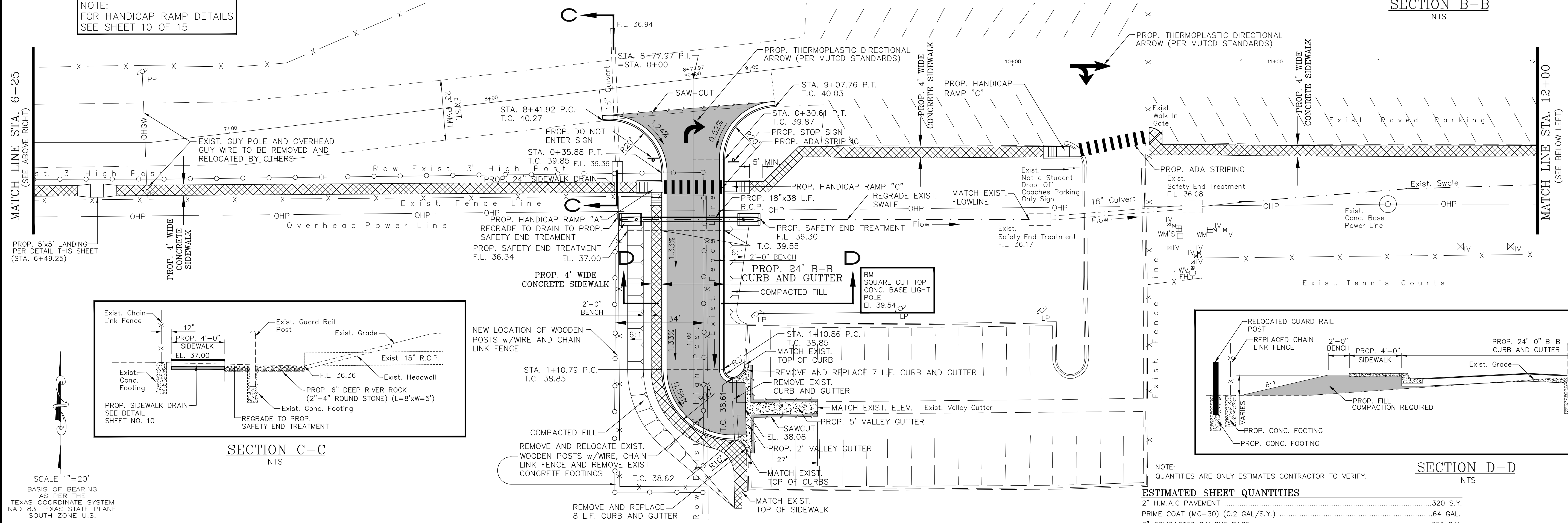


NOTE:
FOR HANDICAP RAMP DETAILS
SEE SHEET 10 OF 15

- LEGEND**
- PROPOSED ASPHALT
 - PROPOSED SIDEWALK
 - PROPOSED VALLEY GUTTER

NOTE:
ALL SOD REMOVED OR DAMAGED
SHALL BE REPLACED WITH SAME.

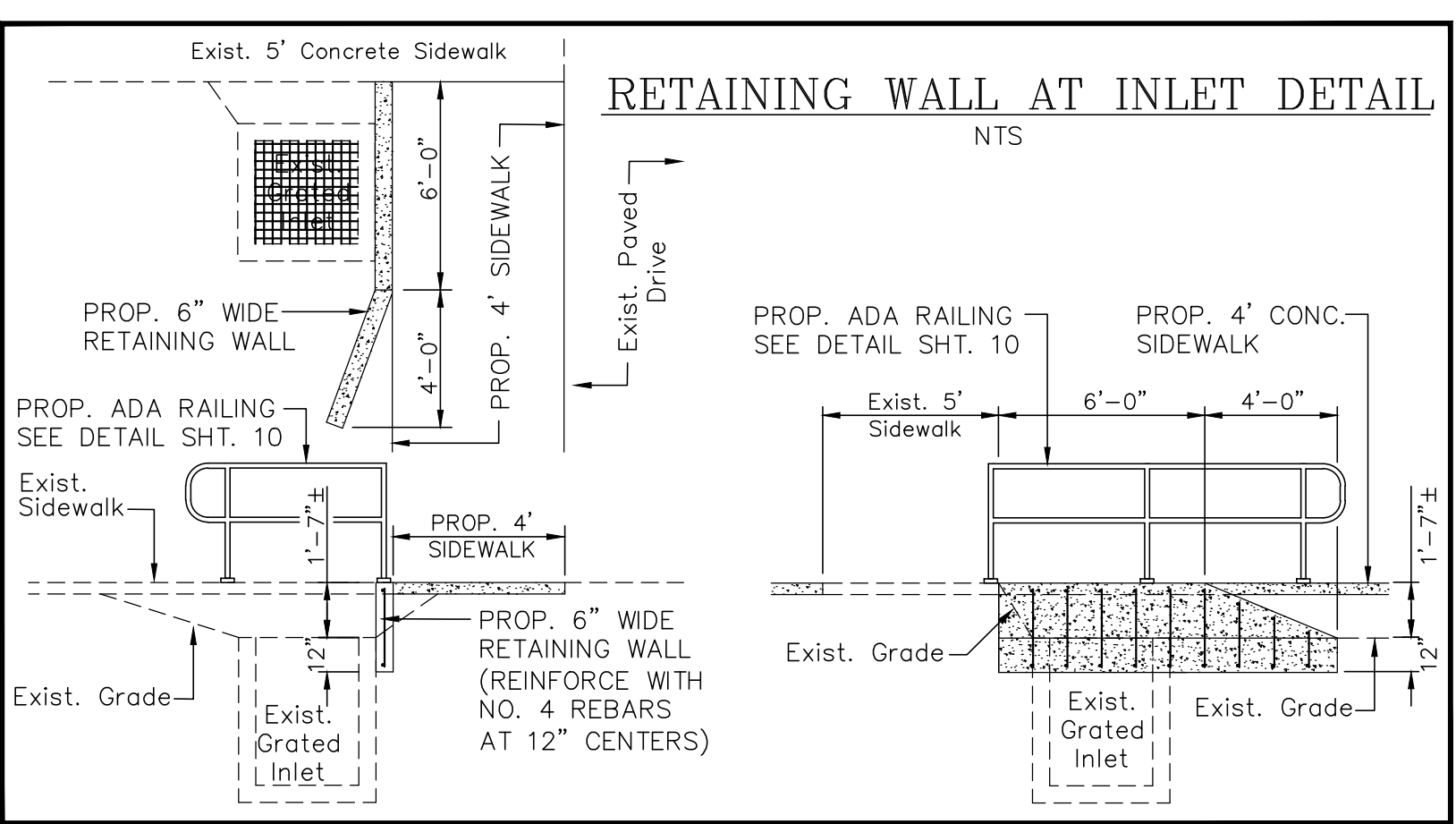
UTILITIES NOTE:
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NOTE:
QUANTITIES ARE ONLY ESTIMATES CONTRACTOR TO VERIFY.

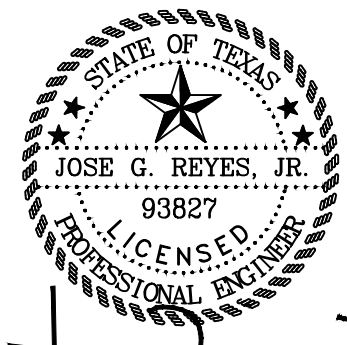
ESTIMATED SHEET QUANTITIES

2" H.M.A.C PAVEMENT	320 S.Y.
PRIME COAT (MC-30) (0.2 GAL/S.Y.)	64 GAL.
8" COMPACTED CALICHE BASE	370 S.Y.
10" COMPACTED SUBGRADE	370 S.Y.
TENSAR TRIAX TX 140 GEOGRID	370 S.Y.
COMPACTED FILL	260 S.Y.
CUT EXISTING GRADE	75 S.Y.
24" CONCRETE CURB & GUTTER w/FIBEROUS REINFORCEMENT	286 L.F.
2 FT. WIDE REINFORCED VALLEY GUTTER w/FIBEROUS REINFORCEMENT	10 S.Y.
5 FT. WIDE REINFORCED VALLEY GUTTER w/FIBEROUS REINFORCEMENT	13 S.Y.
ADA HANDICAP RAMP	3 EA.
18" R.C.P.	38 L.F.
15" R.C.P.(COMPLETE WITH HEADWALL AND CONCRETE COLLAR)	4 L.F.
SAFETY END TREATMENTS	2 EA.
REGRADE EXISTING SWALE	1 L.S.
4 FT. WIDE REINFORCED CONCRETE SIDEWALK	652 S.Y.
6" WIDE CONCRETE RETAINING WALL (COMPLETE WITH HANDRAILS)	1 L.S.
DRAINAGE CHANNEL AND REGRADE (COMPLETE)	1 L.S.
REMOVE EXISTING CURB AND GUTTER	40 L.F.
REMOVE AND RELOCATE EXISTING WOODEN POSTS WITH WIRE	1 L.S.
REMOVE EXISTING CHAIN LINK FENCE	1 L.S.
REMOVE AND REPLACE EXISTING CONCRETE HEADWALL	1 L.S.
SITE GRADING	1 L.S.
EROSION AND SEDIMENT CONTROL PLAN	1 L.S.
THERMOPLASTIC DIRECTIONAL ARROW	2 EA.
DO NOT ENTER SIGN	1 EA.
STOP SIGN	1 EA.
24" WIDE SIDEWALK DRAIN	1 EA.



ADDENDUM #1

REV.	DATE	DESCRIPTION	BY
		HARLINGEN CONSOLIDATED INDEPENDENT SCHOOL DISTRICT HARLINGEN, TEXAS	
		PROPOSED SITE PLAN FOR HARLINGEN HIGH SCHOOL PAVING AND SIDEWALK IMPROVEMENTS	
		ADDRESS: 1201 MARSHALL AVENUE HARLINGEN HIGH SCHOOL SUBDIVISION NO. 2	
		SIGLER, WINSTON, GREENWOOD AND ASSOCIATES SWG ENGINEERING, LLC	
		TEXAS FIRM REGISTRATION NO. F-592 WESLACO, TEXAS	

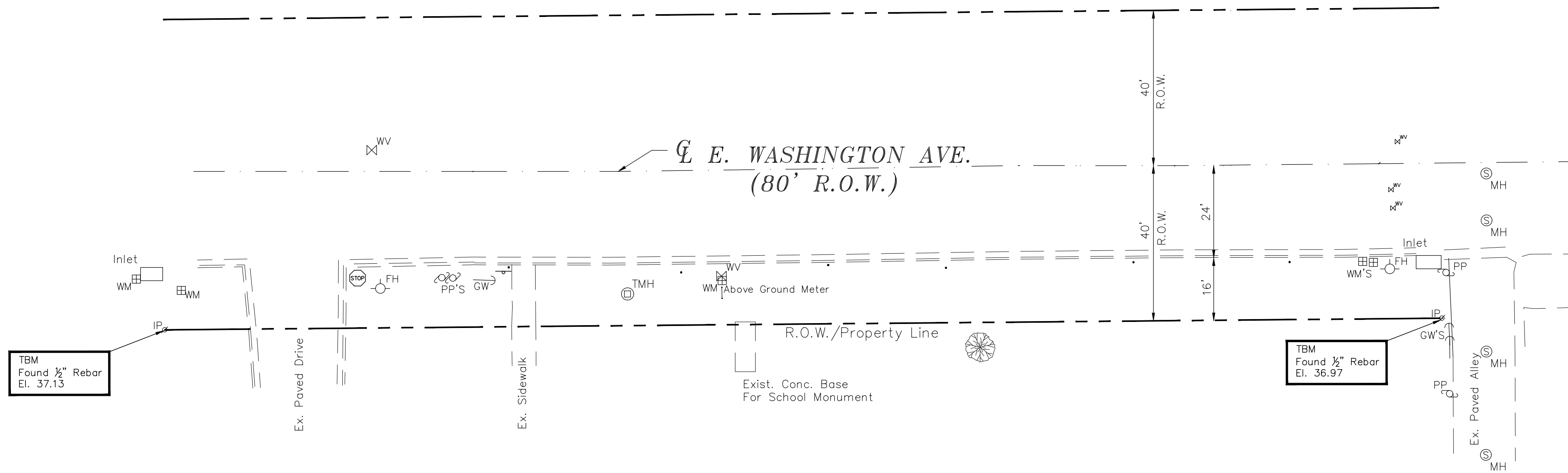


Jose G. Reyes, Jr., P.E.
2/5/2019

DRAWN: MV, Jr.	CHECKED: JGR, Jr.	DRAWING NO.:	18-104-3
DATE: FEB. 2019	NO. 3	OF 15	

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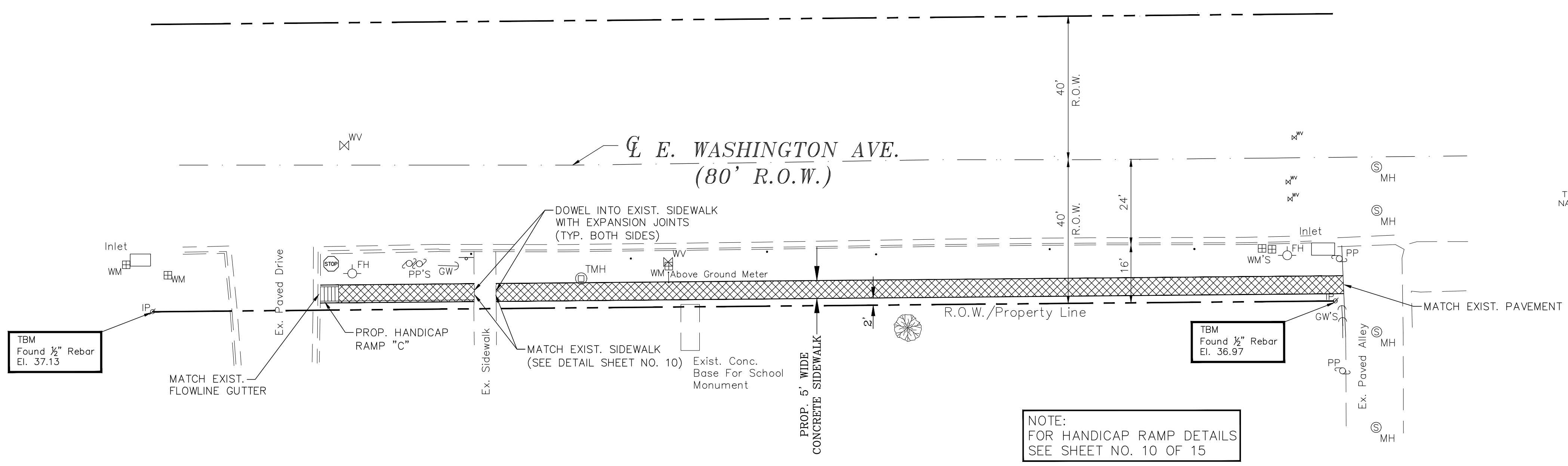
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EXISTING SITE PLAN

SCALE 1"=20'
BASIS OF BEARING
AS PER THE
TEXAS COORDINATE SYSTEM
NAD 83 TEXAS STATE PLANE
SOUTH ZONE U.S.

- LEGEND**
- Right-of-Way Line.....
 - Found 1/2" Rebar.....
 - Set 1/2" Rebar.....
 - Set C.P.S.....
 - Set Nail.....
 - Fence Line.....
 - Power Pole.....
 - Cable Box.....
 - Man Hole.....
 - Vent Pipe.....
 - Irrigation Valve.....
 - Water Meter.....
 - Meter Pole.....
 - Road Side Ditch.....
 - Cable Line.....
 - Telephone Cable Line.....
 - Over Head Powerline.....
 - Over Head Guy Wire.....
 - Water Line.....
 - Sewer Line.....
 - Gas Line.....
 - Electrical Box.....
 - Water Valve.....
 - Fire Hydrant.....
 - Light Pole.....
 - Telephone Box.....
 - Drive.....
 - Gas Meter.....
 - Tree.....



PROPOSED SITE PLAN

SCALE 1"=20'
BASIS OF BEARING
AS PER THE
TEXAS COORDINATE SYSTEM
NAD 83 TEXAS STATE PLANE
SOUTH ZONE U.S.

- LEGEND**
- PROPOSED SIDEWALK

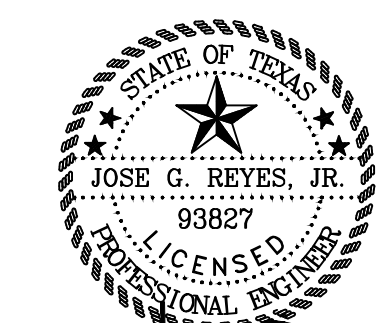
ESTIMATED SHEET QUANTITIES

5 FT. WIDE REINFORCED CONCRETE SIDEWALK.....	162 S.Y.
ADA HANDICAP RAMPS.....	1 EA.
SITE PREPARATION.....	1 L.S.
EROSION AND SEDIMENT CONTROL PLAN.....	1 L.F.
TRAFFIC CONTROL PLAN.....	1 L.S.

NOTE:
QUANTITIES ARE ONLY ESTIMATES CONTRACTOR TO VERIFY.

NOTE:
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UTILITIES NOTE:
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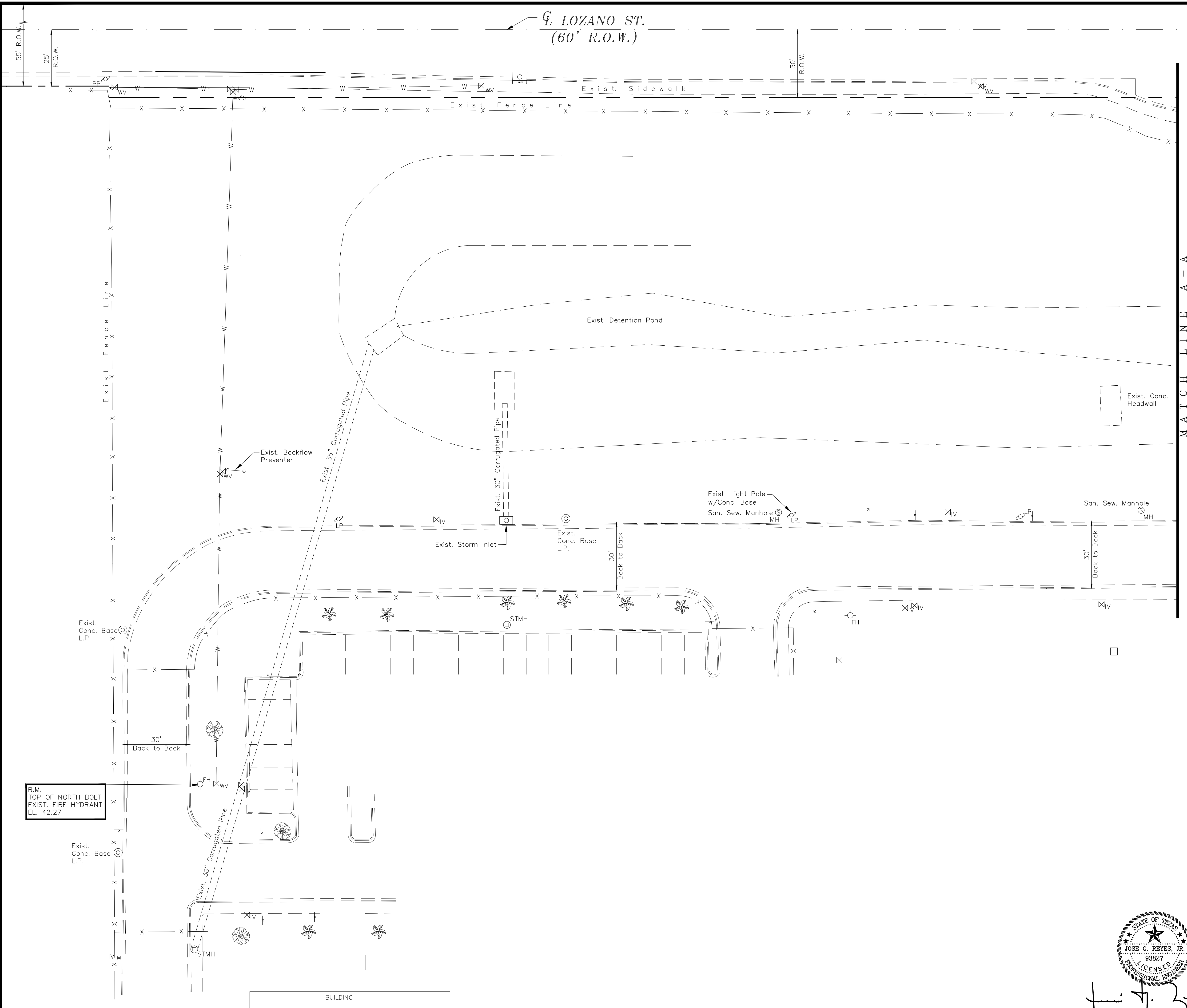
Jose G. Reyes, Jr., P.E.
2/5/2019

ADDENDUM #1

REV.	DATE	DESCRIPTION	BY
HARLINGEN CONSOLIDATED INDEPENDENT SCHOOL DISTRICT HARLINGEN, TEXAS EXISTING AND PROPOSED SITE PLANS FOR STEM PREPARATORY ACADEMY PROPOSED SIDEWALK IMPROVEMENTS ADDRESS: 1920 E. WASHINGTON AVENUE HARLINGEN LAND & WATER CO. SUBDIVISION, BLK. 64			
SIGLER, WINSTON, GREENWOOD AND ASSOCIATES SWG ENGINEERING, LLC TEXAS FIRM REGISTRATION NO. F-592 WESLACO, TEXAS			

2/12/2019 2:59 PM \\server\SWG\Working\MANUEL\18-104-HISD\2-11-SCHOOL-TOPOG

LOZANO ST.
(60' R.O.W.)



SCALE 1"=20'
BASIS OF BEARING
AS PER THE
TEXAS COORDINATE SYSTEM
NAD 83 TEXAS STATE PLANE
SOUTH ZONE U.S.

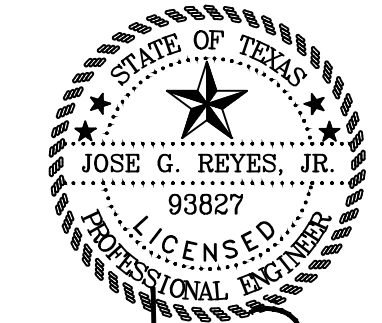
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LEGEND


- Right-of-Way Line.....
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- Water Valve.....
- Fire Hydrant.....
- Light Pole.....
- Telephone Box.....
- Drive.....
- Gas Meter.....
- Tree.....

MATCH LINE A-A

B.M.
TOP OF NORTH BOLT
EXIST. FIRE HYDRANT
EL. 42.27

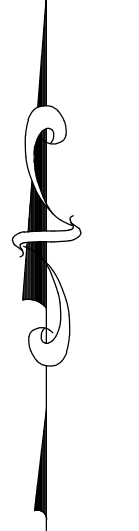
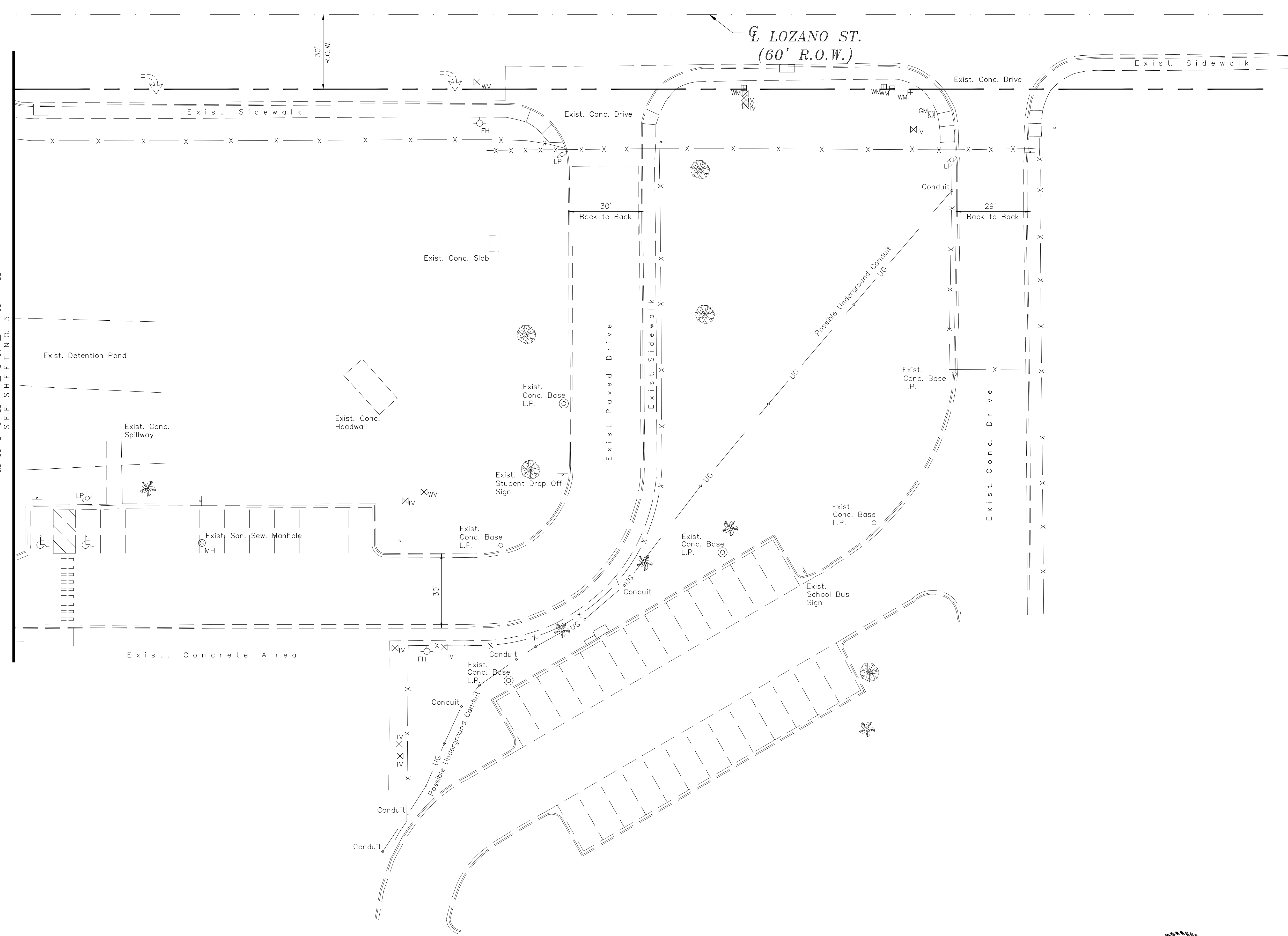


Jose G. Reyes, Jr., P.E.
2/5/2019

REV.	DATE	DESCRIPTION	BY
HARLINGEN CONSOLIDATED INDEPENDENT SCHOOL DISTRICT HARLINGEN, TEXAS EXISTING SITE PLAN FOR DR. ABRAHAM P. CANO FRESHMAN ACADEMY ADDRESS: 1701 LOZANO STREET HCISD NINTH GRADE ACADEMY SUBDIVISION			
SIGLER, WINSTON, GREENWOOD AND ASSOCIATES SWG ENGINEERING, LLC TEXAS FIRM REGISTRATION NO. F-592 WESLACO, TEXAS			 SINCE 1945
DRAWN: MV Jr.	CHECKED: JGR, Jr.	DRAWING NO. 18-104-5	
DATE: FEB., 2019	NO. 5 OF 15		

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MATCH LINE A - A
SEE SHEET NO. 5

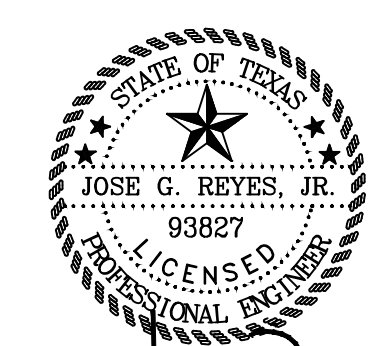


SCALE 1"=20'
BASIS OF BEARING
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NAD 83 TEXAS STATE PLANE
SOUTH ZONE U.S.

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LEGEND

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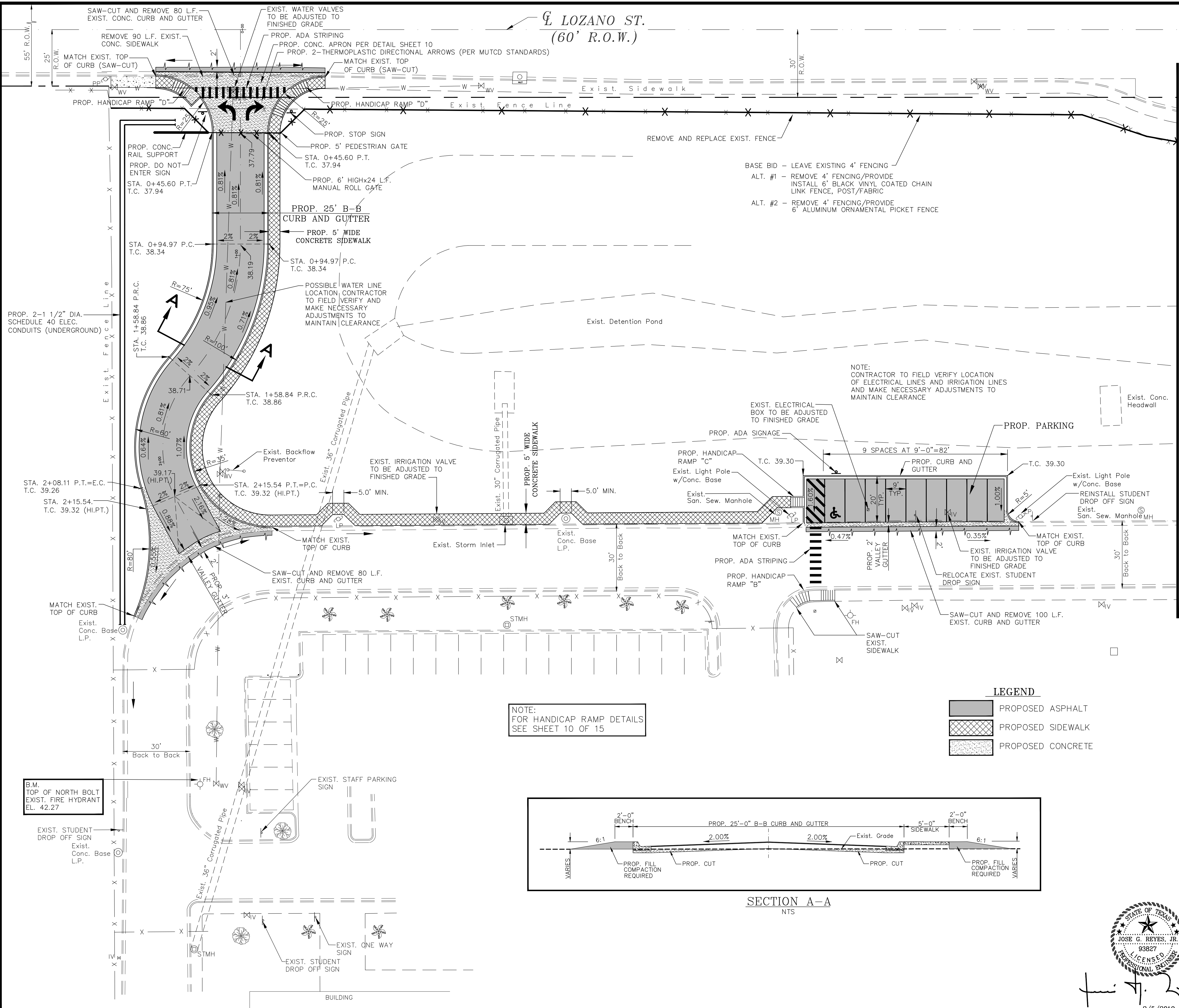
José G. Reyes, Jr., P.E.
2/5/2019

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AND ASSOCIATES

REV.	DATE	DESCRIPTION	BY
HARLINGEN CONSOLIDATED INDEPENDENT SCHOOL DISTRICT HARLINGEN, TEXAS EXISTING SITE PLAN FOR DR. ABRAHAM P. CANO FRESHMAN ACADEMY ADDRESS: 1701 LOZANO STREET HCISD NINTH GRADE ACADEMY SUBDIVISION SIGLER, WINSTON, GREENWOOD AND ASSOCIATES SWG ENGINEERING, LLC TEXAS FIRM REGISTRATION NO. F-592 WESLACO, TEXAS			
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DATE: FEB., 2019		NO. 6 OF 15	

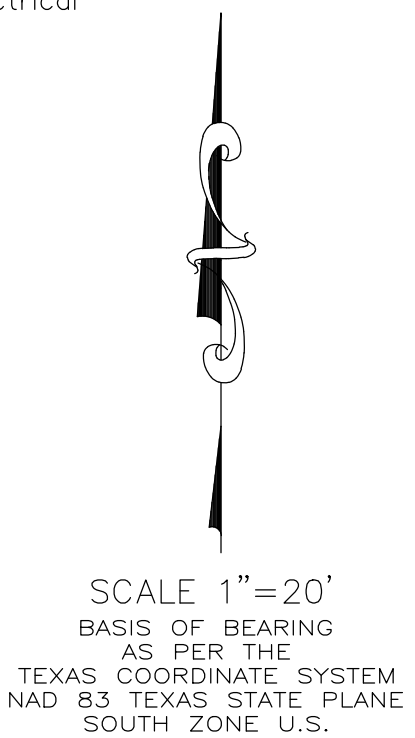


LOZANO ST.
(60' R.O.W.)



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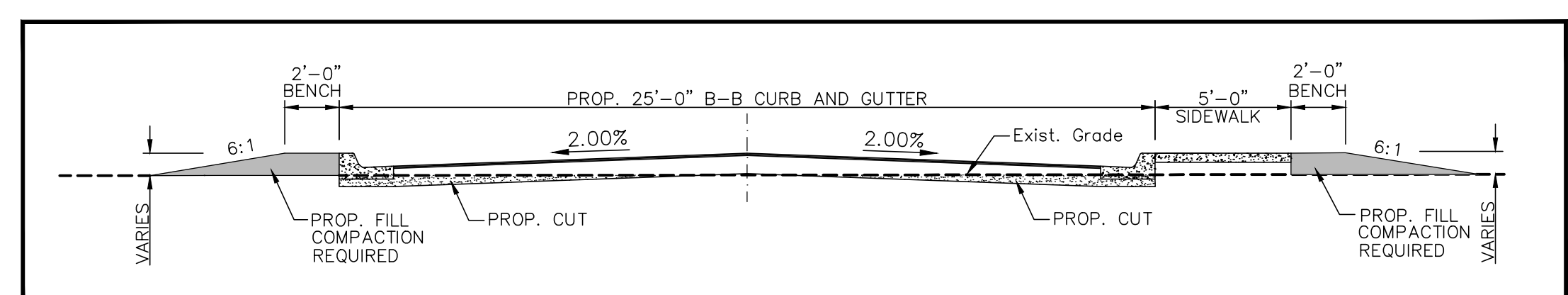
- BASE BID - LEAVE EXISTING 4' FENCING
- ALT. #1 - REMOVE 4' FENCING/PROVIDE
INSTALL 6' BLACK VINYL COATED CHAIN
LINK FENCE, POST/FABRIC
 - ALT. #2 - REMOVE 4' FENCING/PROVIDE
6' ALUMINUM ORNAMENTAL PICKET FENCE

NOTE:
CONTRACTOR TO FIELD VERIFY LOCATION
OF ELECTRICAL LINES AND IRRIGATION LINES
AND MAKE NECESSARY ADJUSTMENTS TO
MAINTAIN CLEARANCE

NOTE:
FOR HANDICAP RAMP DETAILS
SEE SHEET 10 OF 15

LEGEND

	PROPOSED ASPHALT
	PROPOSED SIDEWALK
	PROPOSED CONCRETE

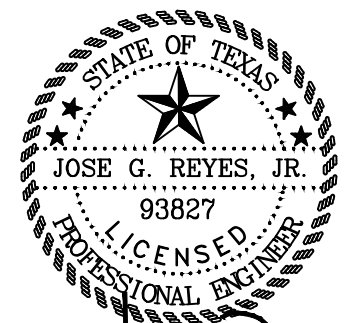


SECTION A-A
NTS

ESTIMATED SHEET QUANTITIES

2" H.M.A.C PAVEMENT	795 S.Y.
PRIME COAT (MC-30) (0.2 GALS/S.Y.)	133 GAL.
8" COMPACTED FLEXIBLE BASE	956 S.Y.
10" COMPACTED SUBGRADE	956 S.Y.
TENSAR TRIAX TX 140 GEORGRID	956 S.Y.
24" CONCRETE CURB & GUTTER w/FIBEROUS REINFORCEMENT	453 L.F.
2 FT. WIDE REINFORCED VALLEY GUTTER w/FIBEROUS REINFORCEMENT	23 S.Y.
3 FT. WIDE REINFORCED VALLEY GUTTER w/FIBEROUS REINFORCEMENT	258 S.Y.
5 FT. WIDE REINFORCED CONCRETE SIDEWALK	249 S.Y.
5' PEDESTRIAN GATE	2 EA.
STRIPING THERMOPLASTIC	1 L.S.
ADA SIGNAGE	1 EA.
ADA HANDICAP RAMP	4 EA.
INSTALL 24 FT. MANUAL SLIDING GATE (COMPLETE IN PLACE)	1 EA.
INSTALL 32 FT. MANUAL SLIDING GATE (COMPLETE IN PLACE)	1 EA.
REMOVE EXISTING SIDEWALK	75 L.F.
REMOVE EXISTING CURB AND GUTTER	250 L.F.
REMOVE AND REPLACE EXIST. GATE/PEDESTRIAN ACCESS	1 L.S.
RELOCATE STUDENT DROP OFF SIGN	1 EA.
ADJUST WATER VALVES	3 EA.
ADJUST IRRIGATION VALVE	1 EA.
ADJUST ELECTRICAL BOX	1 EA.
DO NOT ENTER SIGN	1 EA.
STOP SIGN	1 EA.
SITE GRADING	1 L.S.
EROSION AND SEDIMENT CONTROL PLAN	1 L.S.
1 1/2" DIA. SCH. 40 ELEC. CONDUITS (UNDERGROUND)	620 L.F.
THERMOPLASTIC DIRECTIONAL ARROW (PER MUTCD)	2 EA.
CONCRETE APRON	1 L.S.
TRAFFIC CONTROL PLAN	1 L.S.

NOTE:
QUANTITIES ARE ONLY ESTIMATES CONTRACTOR TO VERIFY.



Jose G. Reyes, Jr., P.E.
2/5/2019

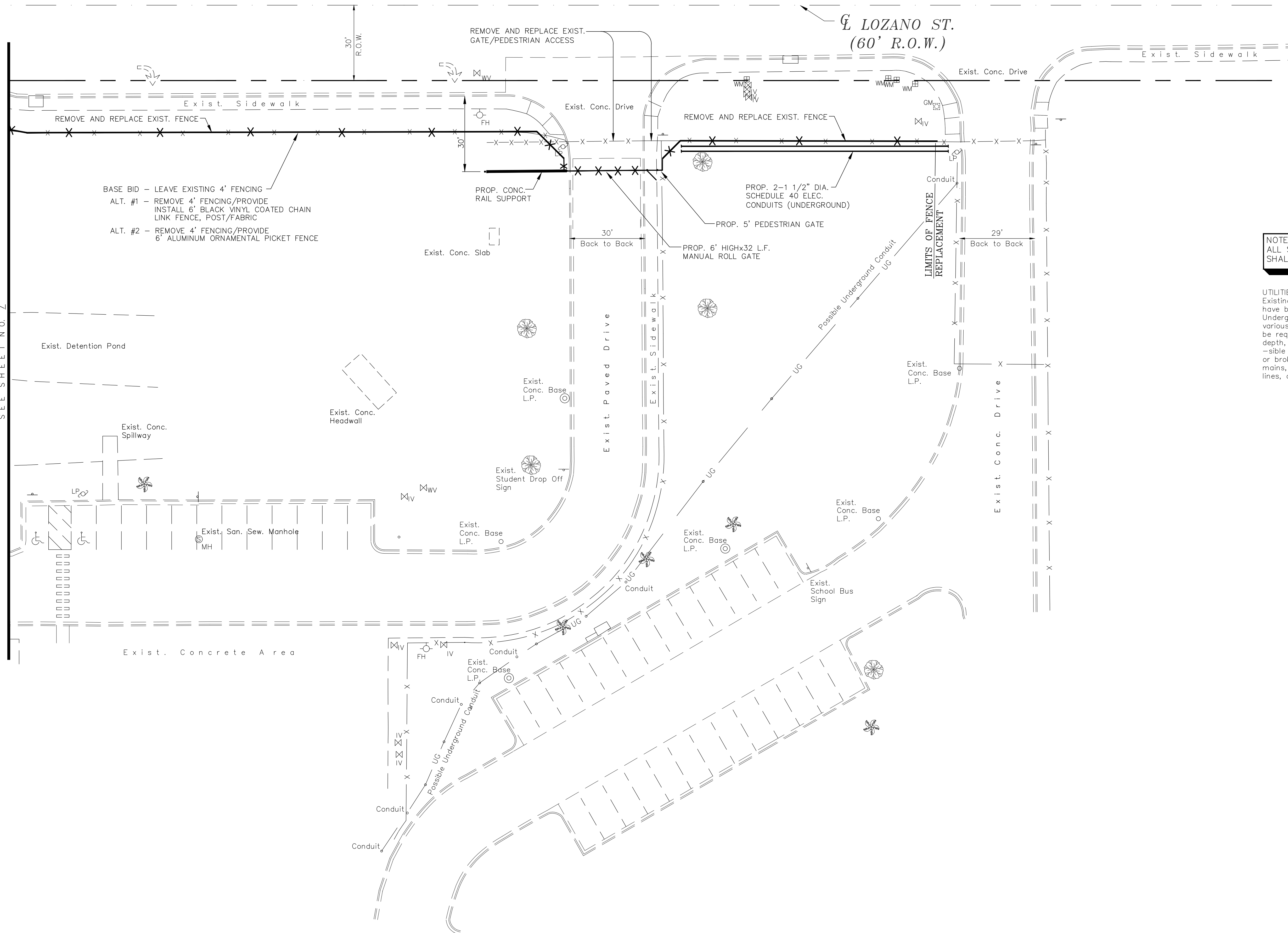
ADDENDUM #1

REV.	DATE	DESCRIPTION	BY
HARLINGEN CONSOLIDATED INDEPENDENT SCHOOL DISTRICT HARLINGEN, TEXAS			
PROPOSED SITE PLAN			
FOR DR. ABRAHAM P. CANO FRESHMAN ACADEMY			
PROPOSED PAVING AND SIDEWALK IMPROVEMENTS			
ADDRESS: 1701 LOZANO STREET HCISD NINTH GRADE ACADEMY SUBDIVISION			
SIGLER, WINSTON, GREENWOOD AND ASSOCIATES SWG ENGINEERING, LLC			
TEXAS FIRM REGISTRATION NO. F-592 WESLACO, TEXAS			
SINCE 1945			

DRAWN: MV Jr.	CHECKED: JGR, Jr.	DRAWING NO.:	18-104-7
DATE: FEB. 2019	NO. 7	OF 15	

\\server\SWG\Working\MANUEL\18-104-HISD\2-11-SCHOOL_TOPOG_2/12/2019_2:59 PM

MATCH LINE
SEE SHEET NO. Z - A

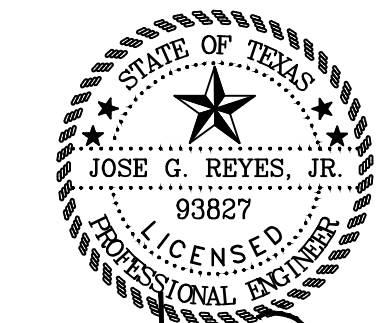


- BASE BID - LEAVE EXISTING 4' FENCING
- ALT. #1 - REMOVE 4' FENCING/PROVIDE INSTALL 6\" BLACK VINYL COATED CHAIN LINK FENCE, POST/FABRIC
- ALT. #2 - REMOVE 4' FENCING/PROVIDE 6\" ALUMINUM ORNAMENTAL PICKET FENCE

NOTE:
ALL SOD REMOVED OR DAMAGED SHALL BE REPLACED WITH SAME.


UTILITIES NOTE:
Existing above ground utilities and topography have been plotted by direct field information. Underground utilities have been plotted from various sources and locators. Contractor will be required to establish their exact location, depth, and size. The contractor is also responsible for the replacement or repair of all cut or broken water lines, irrigation lines, force mains, sprinkler systems, gas lines, electrical lines, cables, etc.

SCALE 1"=20'
BASIS OF BEARING AS PER THE TEXAS COORDINATE SYSTEM NAD 83 TEXAS STATE PLANE SOUTH ZONE U.S.

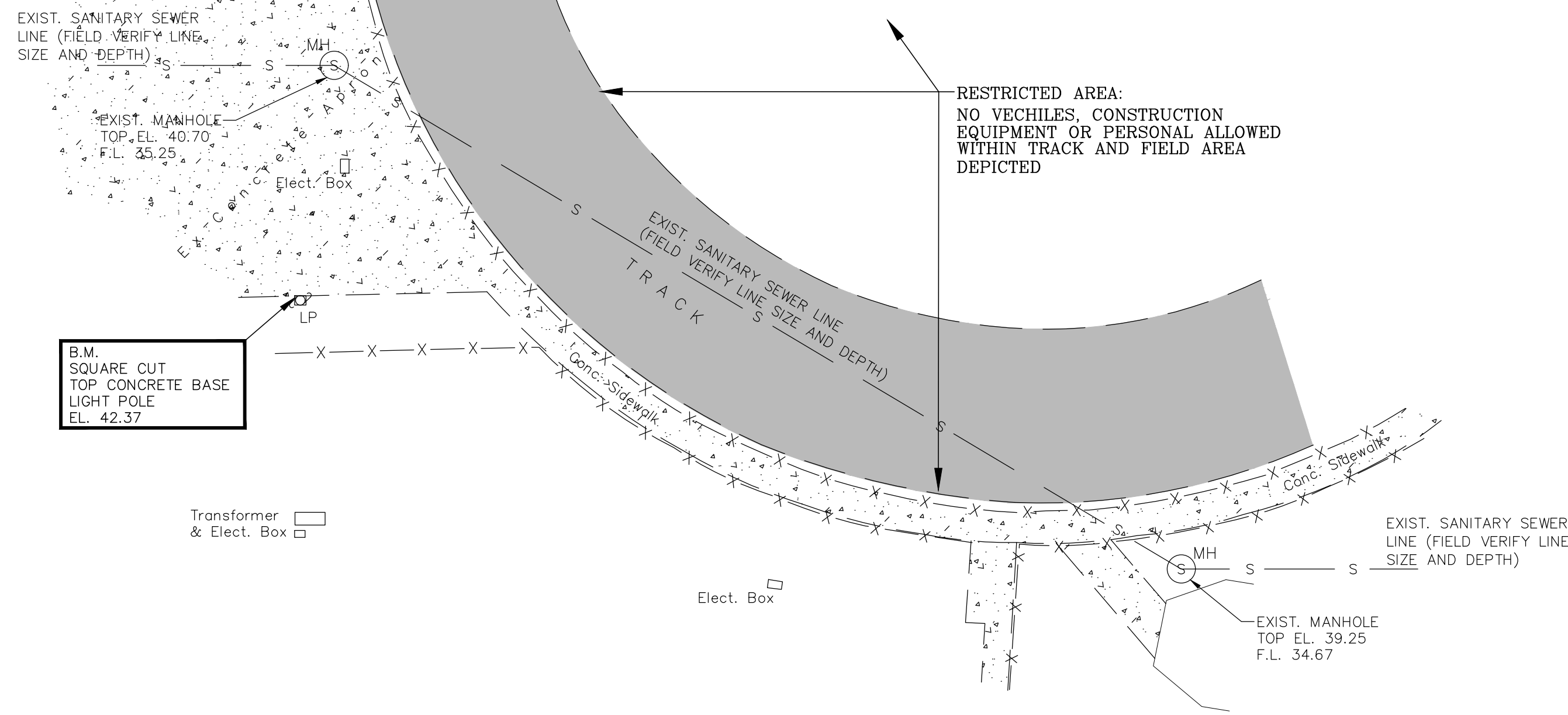


Jose G. Revis, Jr., P.E.
2/5/2019

ADDENDUM #1

REV.	DATE	DESCRIPTION	BY
HARLINGEN CONSOLIDATED INDEPENDENT SCHOOL DISTRICT HARLINGEN, TEXAS PROPOSED SITE PLAN FOR DR. ABRAHAM P. CANO FRESHMAN ACADEMY PROPOSED PAVING AND SIDEWALK IMPROVEMENTS ADDRESS: 1701 LOZANO STREET HCISD NINTH GRADE ACADEMY SUBDIVISION			
SIGLER, WINSTON, GREENWOOD AND ASSOCIATES SWG ENGINEERING, LLC TEXAS FIRM REGISTRATION NO. F-592 WESLACO, TEXAS			 SINCE 1945
DRAWN: MV Jr.	CHECKED: JGR, Jr.	DRAWING NO. 18-104-8	
DATE: FEB., 2019	NO. 8 OF 15		

EXISTING
BOGGUS STADIUM
TRACK AND FIELD



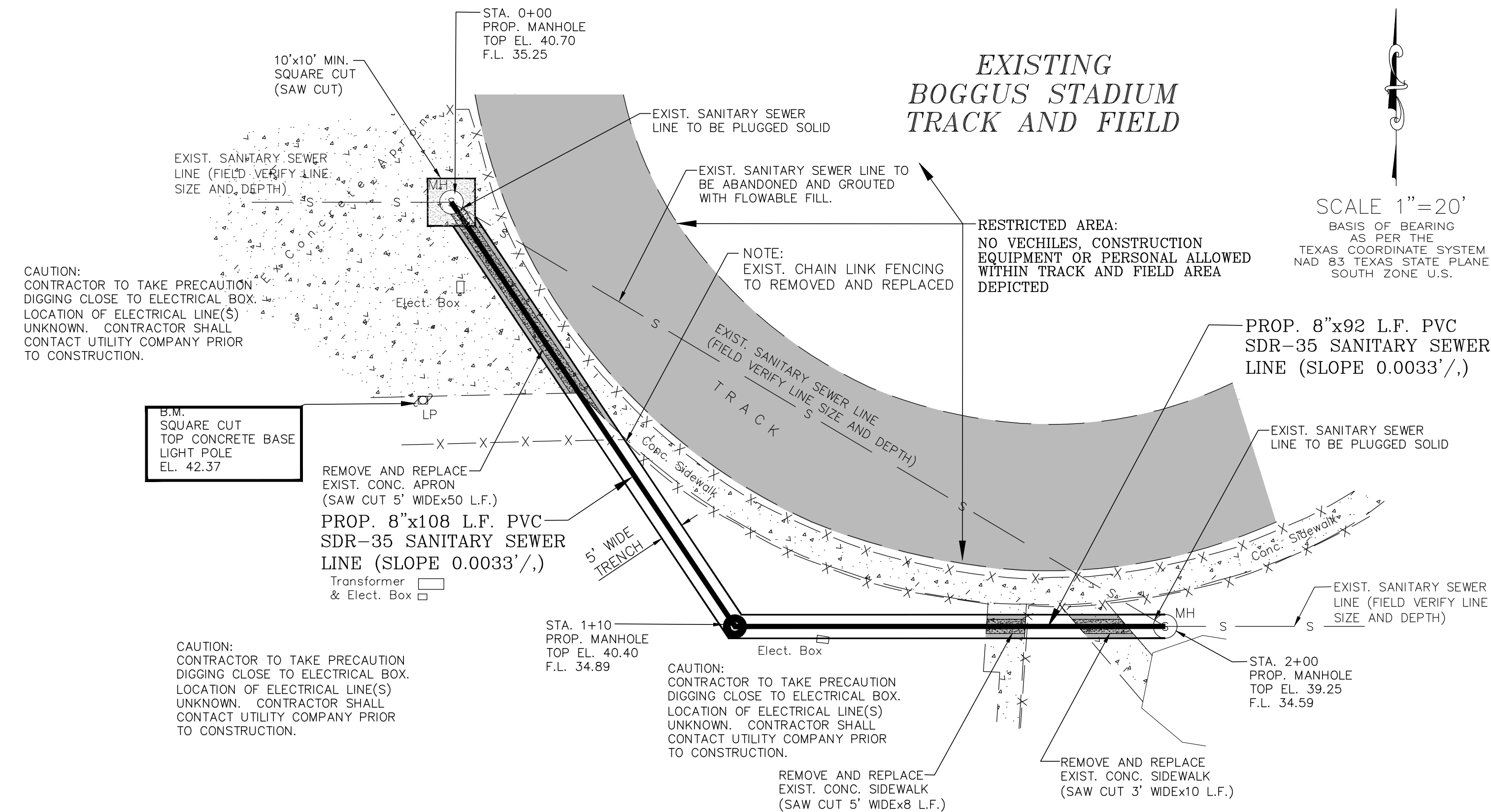
EXISTING SITE PLAN

SCALE 1"=20'
BASIS OF BEARING
AS PER THE
TEXAS COORDINATE SYSTEM
NAD 83 TEXAS STATE PLANE
SOUTH ZONE U.S.

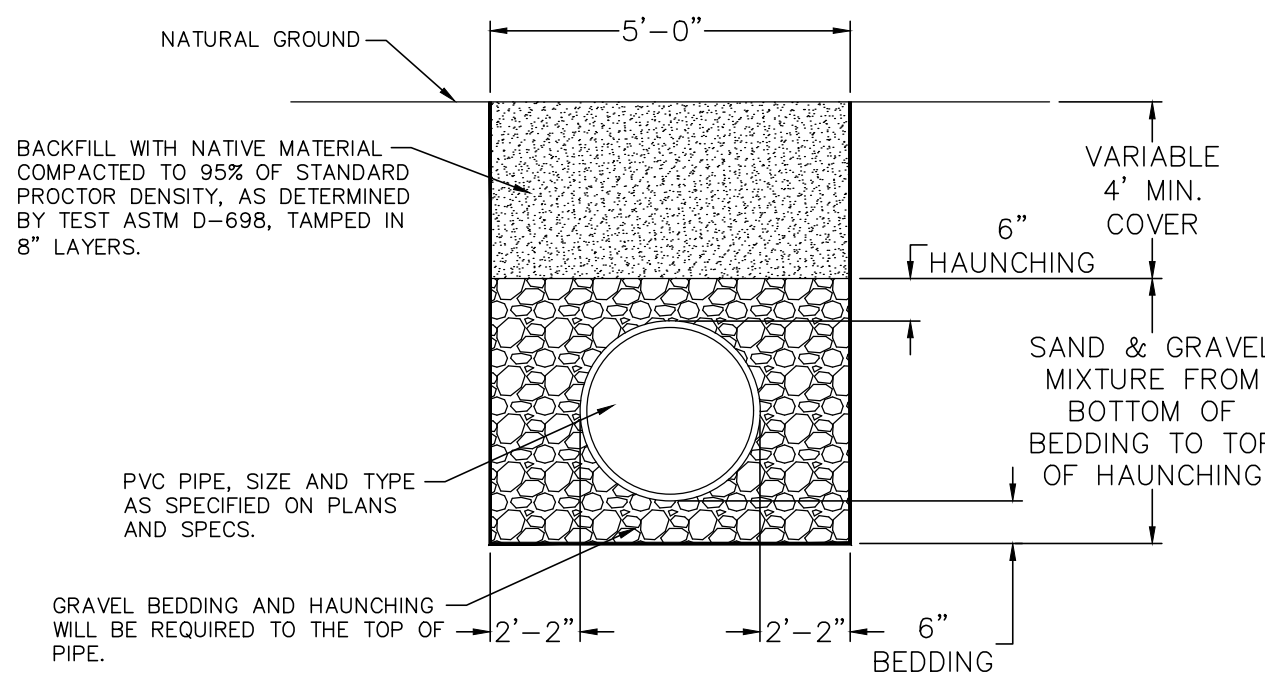
LEGEND

- Right-of-Way Line.....
- Found 1/2" Rebar.....
- Set 1/2" Rebar.....
- Set C.P.S.....
- Set Nail.....
- Fence Line.....
- Power Pole.....
- Cable Box.....
- Man Hole.....
- Vent Pipe.....
- Irrigation Valve.....
- Water Meter.....
- Meter Pole.....
- Road Side Ditch.....
- Cable Line.....
- Telephone Cable Line.....
- Over Head Powerline.....
- Over Head Guy Wire.....
- Water Line.....
- Sewer Line.....
- Gas Line.....
- Electrical Box.....
- Water Valve.....
- Fire Hydrant.....
- Light Pole.....
- Telephone Box.....
- Drive.....
- Gas Meter.....
- Tree.....

EXISTING
BOGGUS STADIUM
TRACK AND FIELD



PROPOSED SITE PLAN



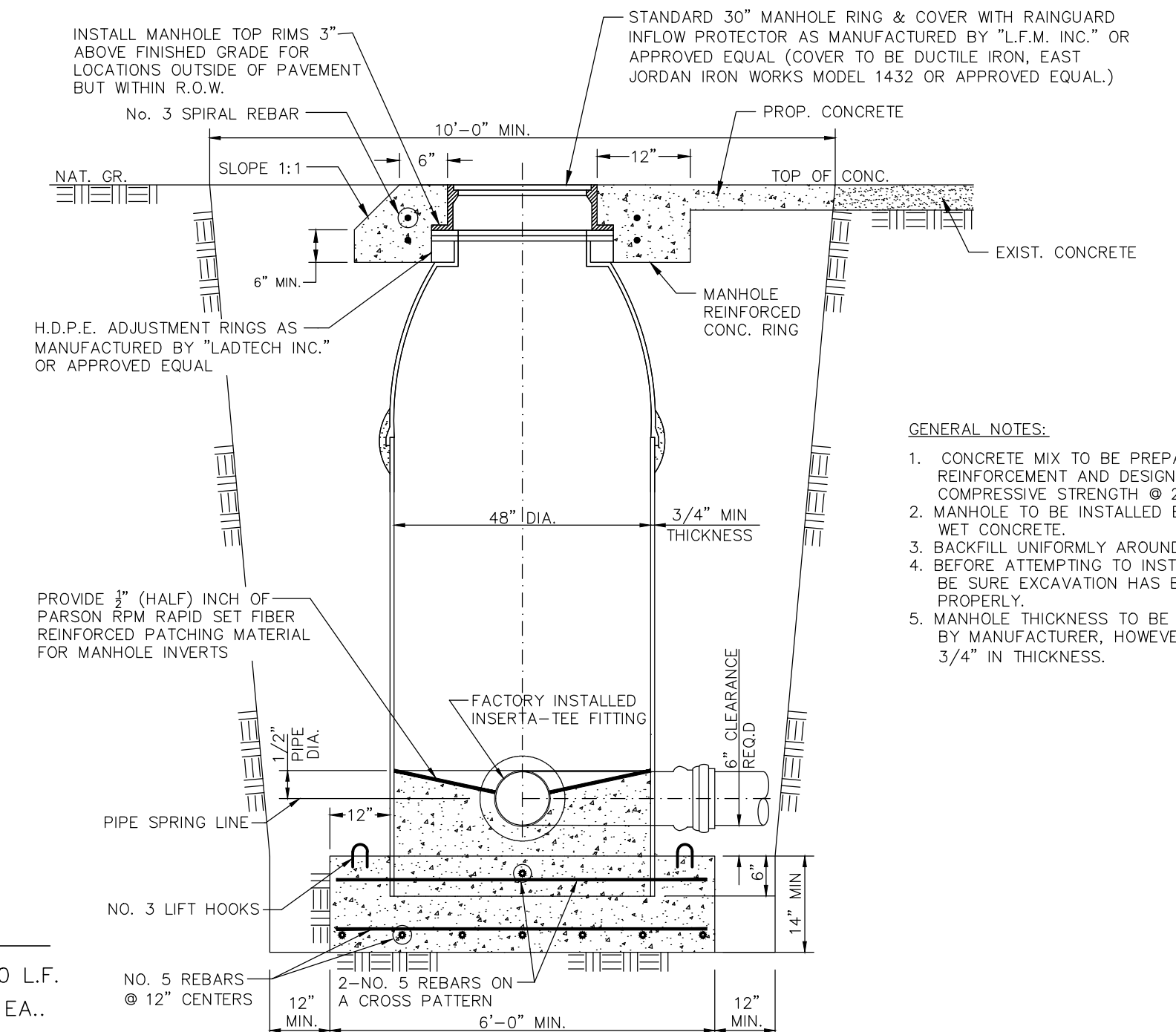
TYPICAL TRENCH CROSS SECTION
FOR PVC SDR 26 AND
SDR 35 SANITARY SEWER LINES

ESTIMATED SHEET QUANTITIES

8" PVC SDR-35 SANITARY SEWER PIPE	200 L.F.
48" DIA. FIBERGLASS MANHOLE	3 EA.
REMOVE AND REPLACE EXISTING CONCRETE APRON(3' WIDE)	50 L.F.
REMOVE AND REPLACE EXISTING CONCRETE SIDEWALK(3' WIDE)	18 L.F.
REMOVE AND REPLACE EXISTING CHAIN LINK FENCE	1 L.S.
REMOVE AND DISCARD EXISTING MANHOLES	3 EA.
EROSION AND SEDIMENT CONTROL PLAN	1 L.S.
EXISTING SANITARY SEWER LINE TO BE PLUGGED IN PLACE (2 PLACES)	1 L.S.
SITE PREPARATION	1 L.S.
TRENCH AND SHORING PROTECTION (FOR TRENCHES DEEPER THAN 5')	1 L.S.
SANITARY SYSTEM INVESTIGATION	1 L.S.

NOTE:
QUANTITIES ARE ONLY ESTIMATES CONTRACTOR TO VERIFY.

UTILITIES NOTE:
Existing above ground utilities and topography
have been plotted by direct field information.
Underground utilities have been plotted from
various sources and locators. Contractor will
be required to establish their exact location,
depth, and size. The contractor is also respon-
sible for the replacement or repair of all cut
or broken water lines, irrigation lines, force
mains, sprinkler systems, gas lines, electrical
lines, cables, etc.

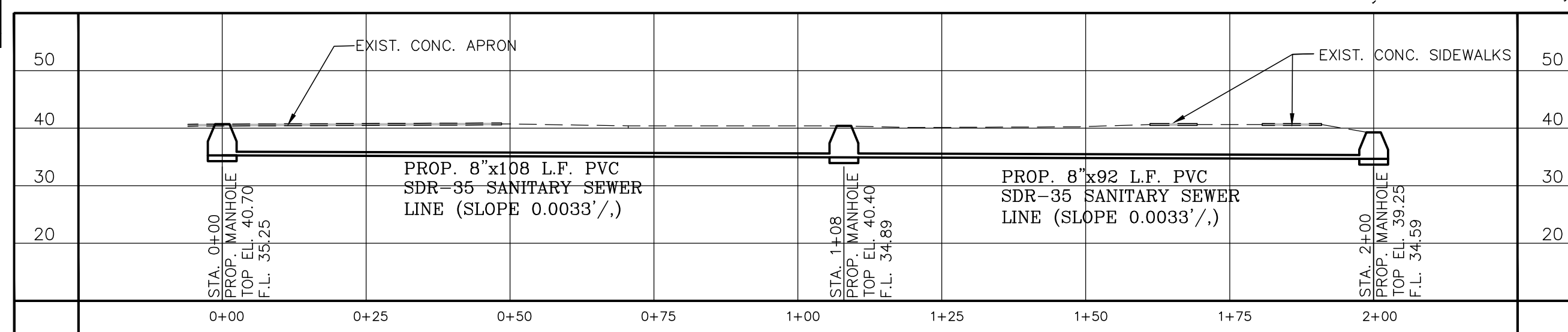


FIBERGLASS MANHOLE DETAIL

NOTE:
EXIST. CONCRETE TO BE PROTECTED
AGAINST DAMAGE. ANY DAMAGED AREAS
SHALL BE REPAIRED AT CONTRACTORS
EXPENSE.

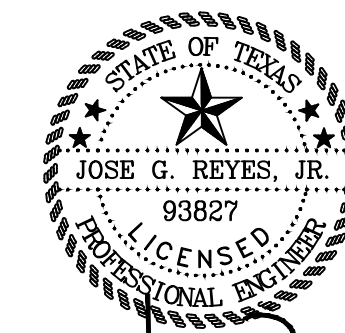
NOTE:
ALL SOD REMOVED OR DAMAGED
SHALL BE REPLACED WITH SAME.

NOTE:
CONSTRUCTION AREA SHALL BE
PROTECTED BY CONSTRUCTION
BARRIERS AT ALL TIMES.

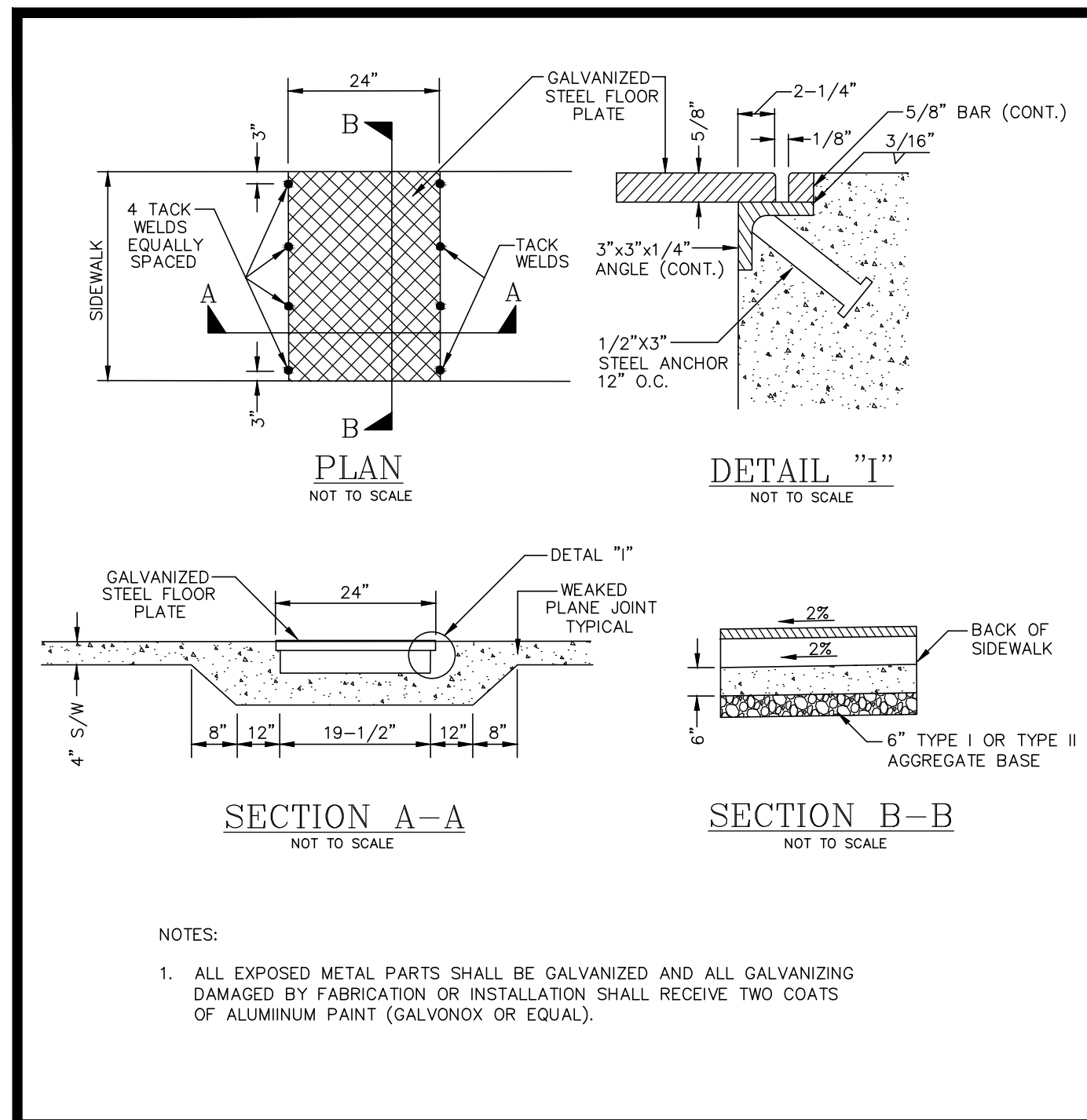


ADDENDUM #1

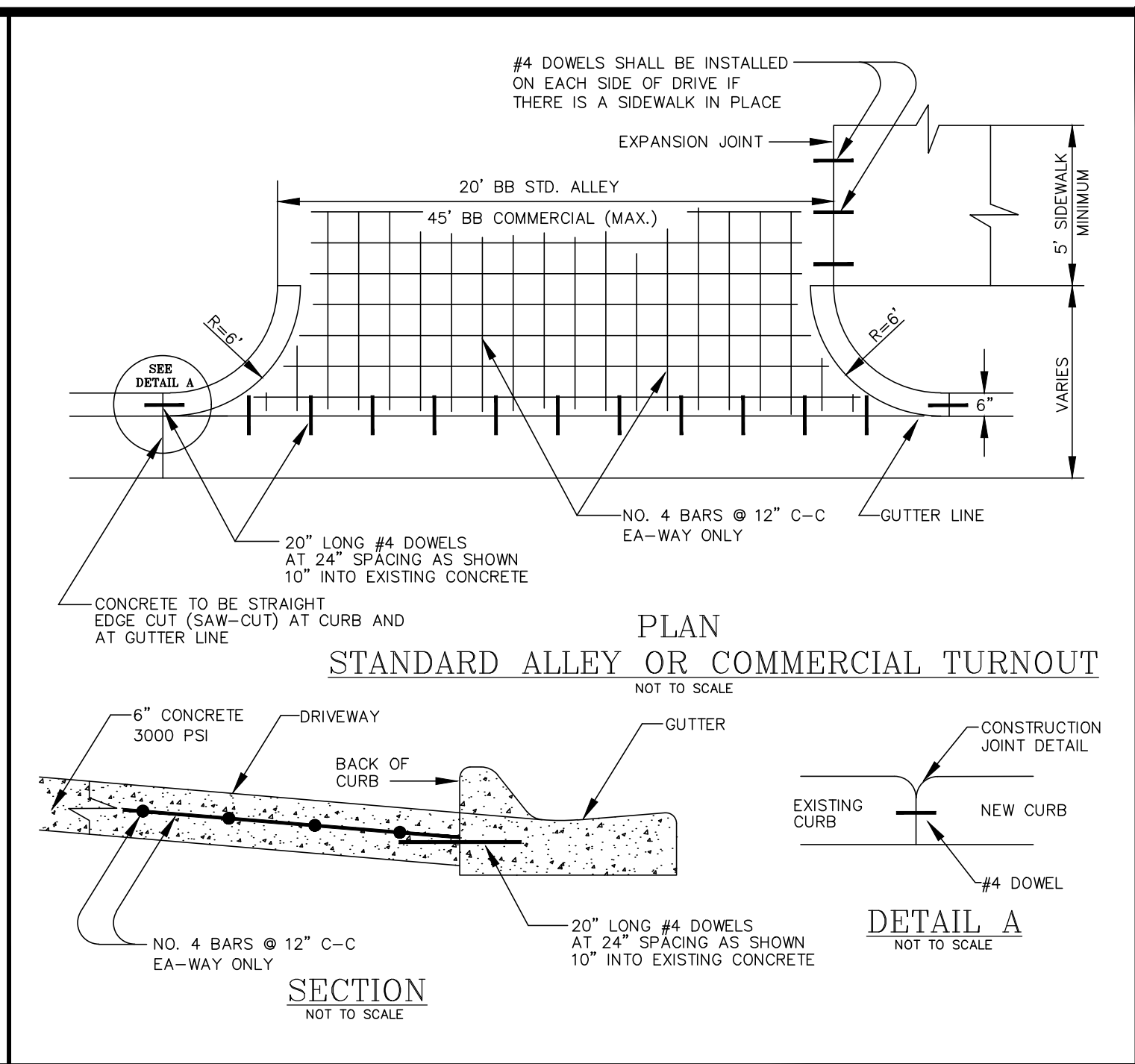
REV.	DATE	DESCRIPTION	BY
HARLINGEN CONSOLIDATED INDEPENDENT SCHOOL DISTRICT HARLINGEN, TEXAS EXISTING AND PROPOSED SITE PLANS FOR BOGGUS STADIUM PROPOSED SANITARY SEWER IMPROVEMENTS ADDRESS: 198 N. 13th STREET HARLINGEN LAND & WATER CO. SUBDIVISION, BLK. 64			
SIGLER, WINSTON, GREENWOOD AND ASSOCIATES SWG ENGINEERING, LLC TEXAS FIRM REGISTRATION NO. F-592 WESLACO, TEXAS			
DRAWN: MV Jr. CHECKED: JGR, Jr. DATE: FEB. 2019 NO. 9 OF 15			
DRAWING NO. 18-104-9			



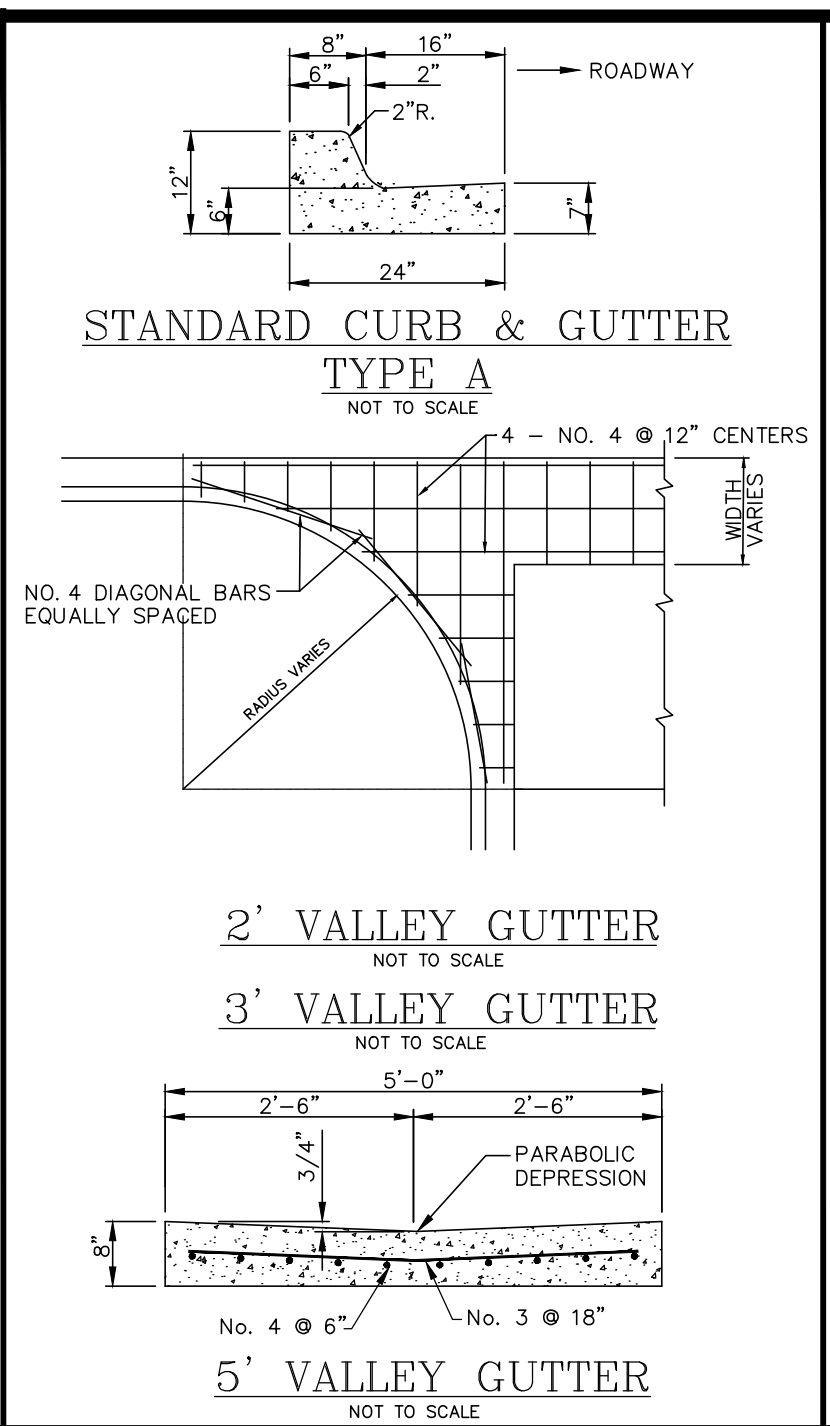
Jose G. Reyes, Jr., P.E.
2/5/2019



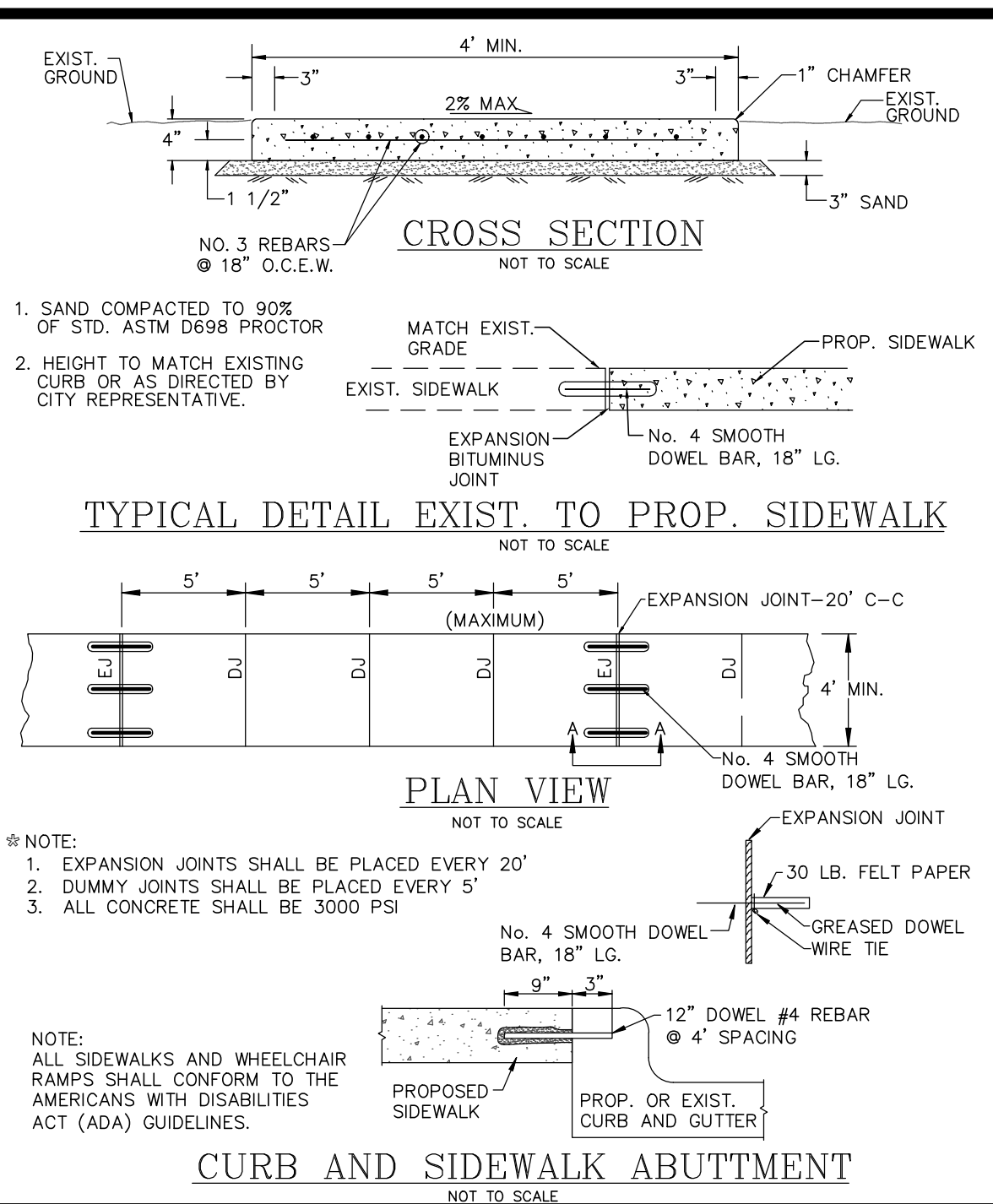
TYPICAL SIDEWALK DRAIN DETAIL



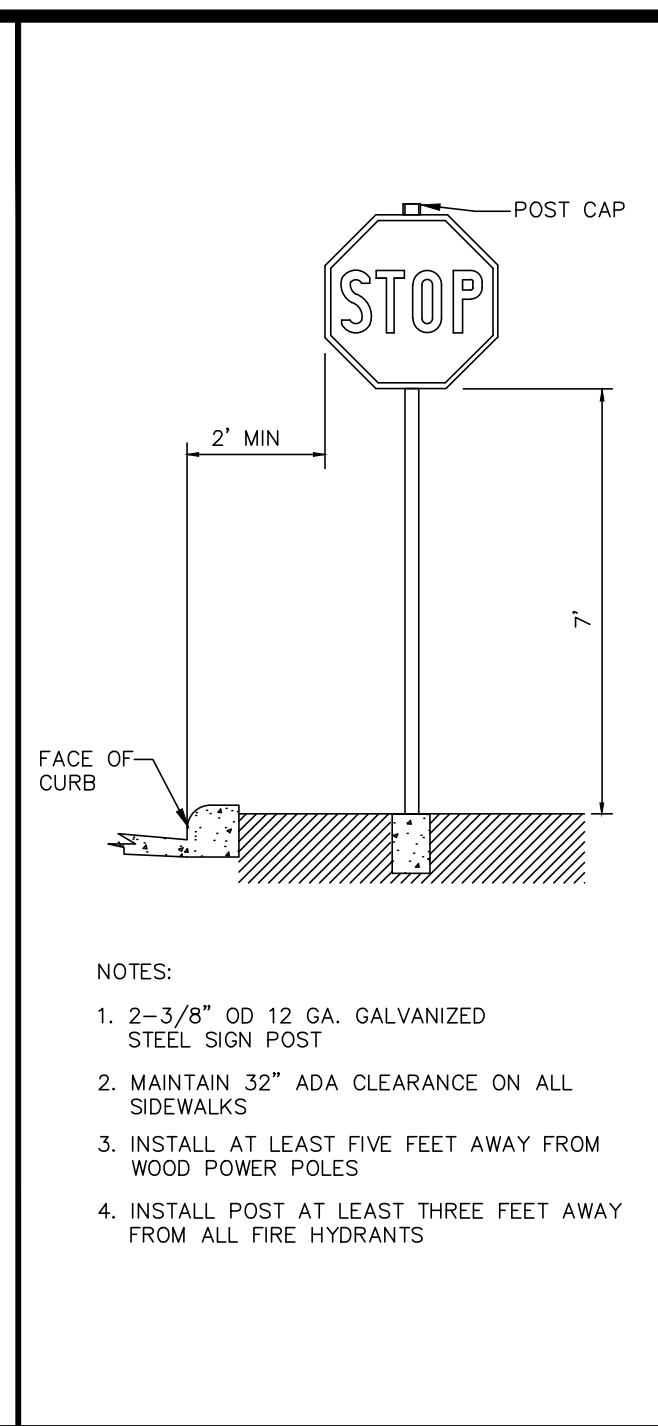
TYPICAL DETAIL FOR REINFORCING ALLEY AND COMMERCIAL TURNOUTS AS PER CITY OF HARLINGEN STANDARDS



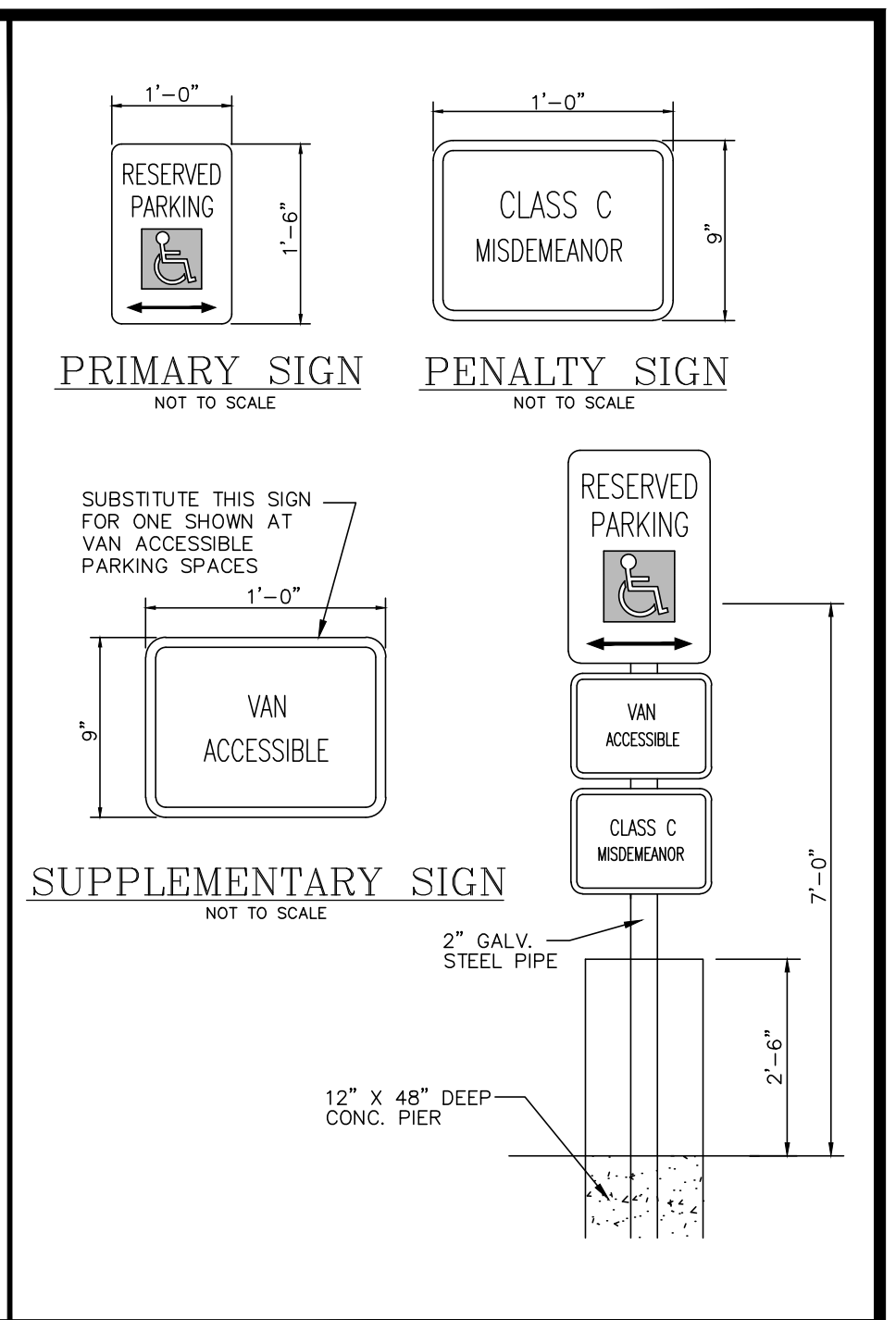
CONCRETE CURB & GUTTER



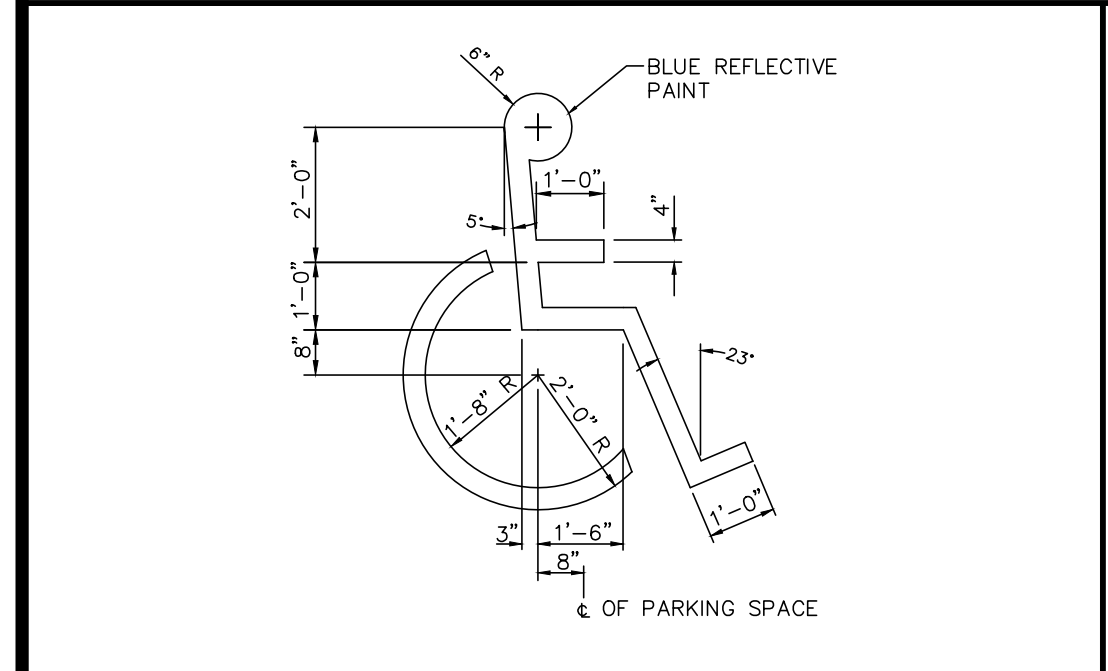
SIDEWALK DETAILS AS PER CITY OF HARLINGEN STANDARDS



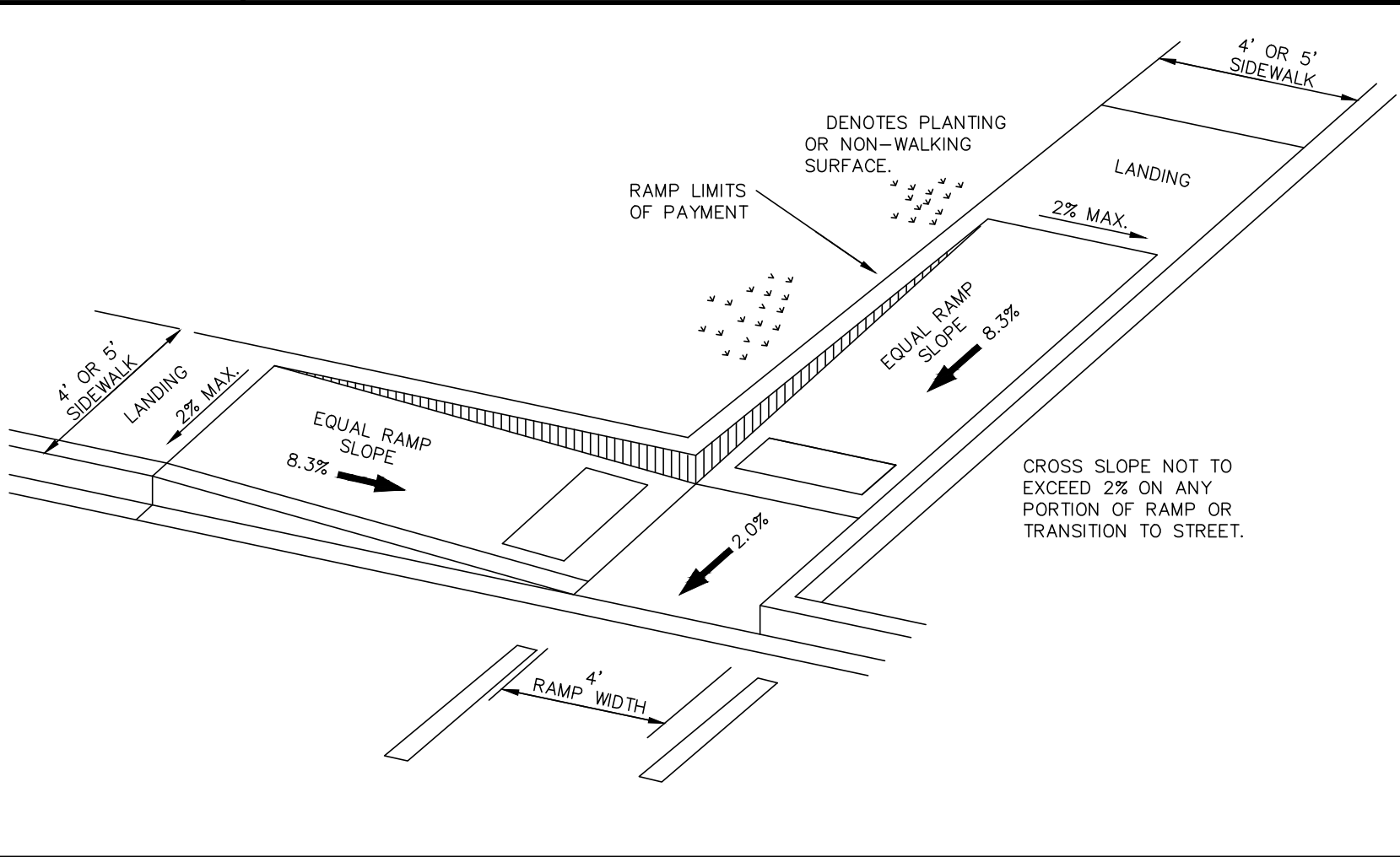
STOP SIGN DETAIL



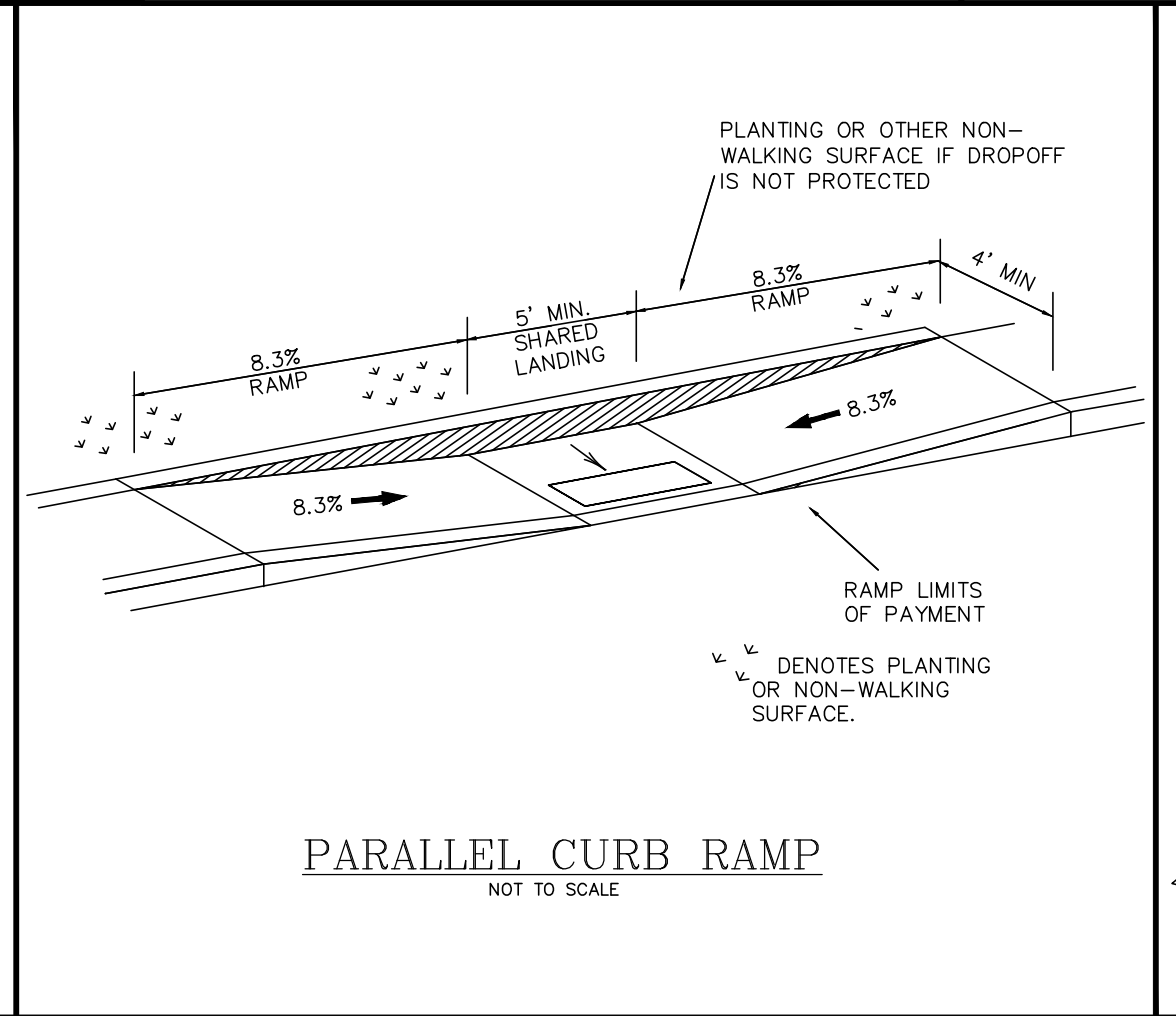
PARKING SIGNAGE: HANDICAPPED



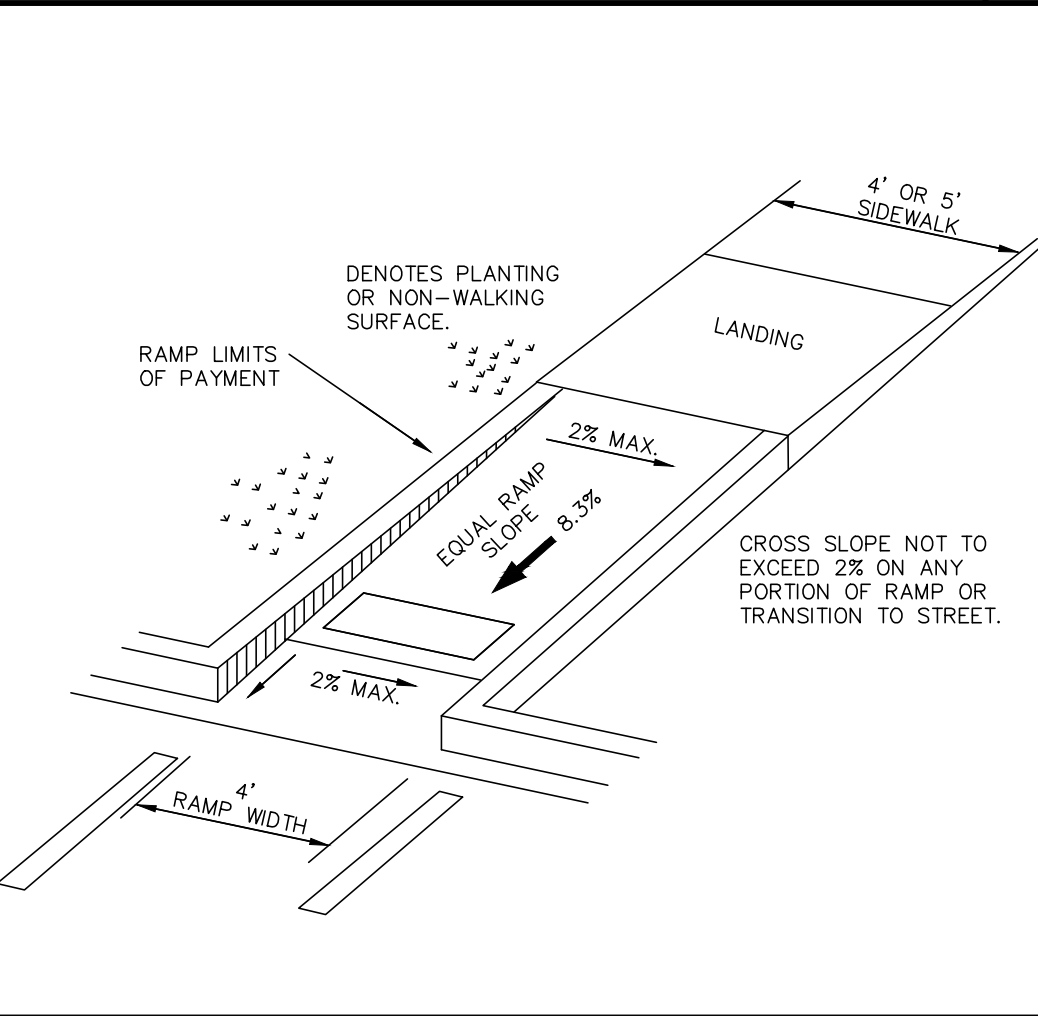
HANDICAP SYMBOL DETAIL



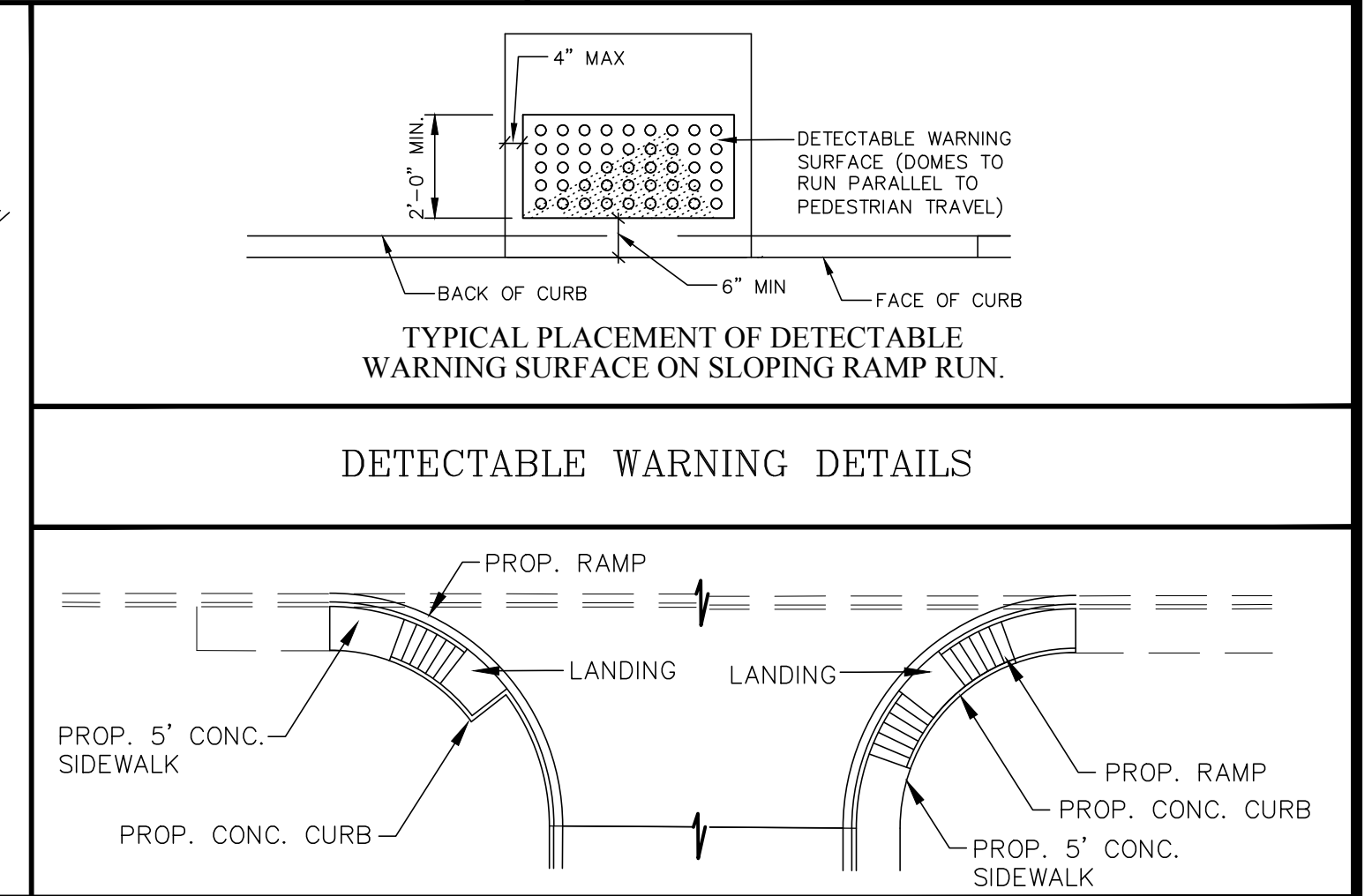
WHEELCHAIR RAMP A



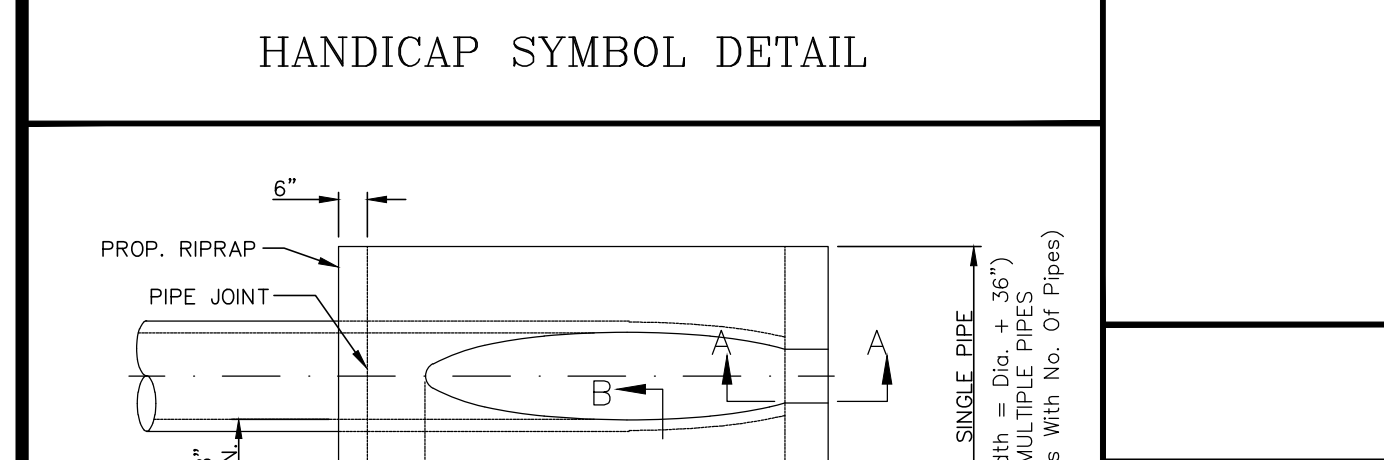
WHEELCHAIR RAMP B



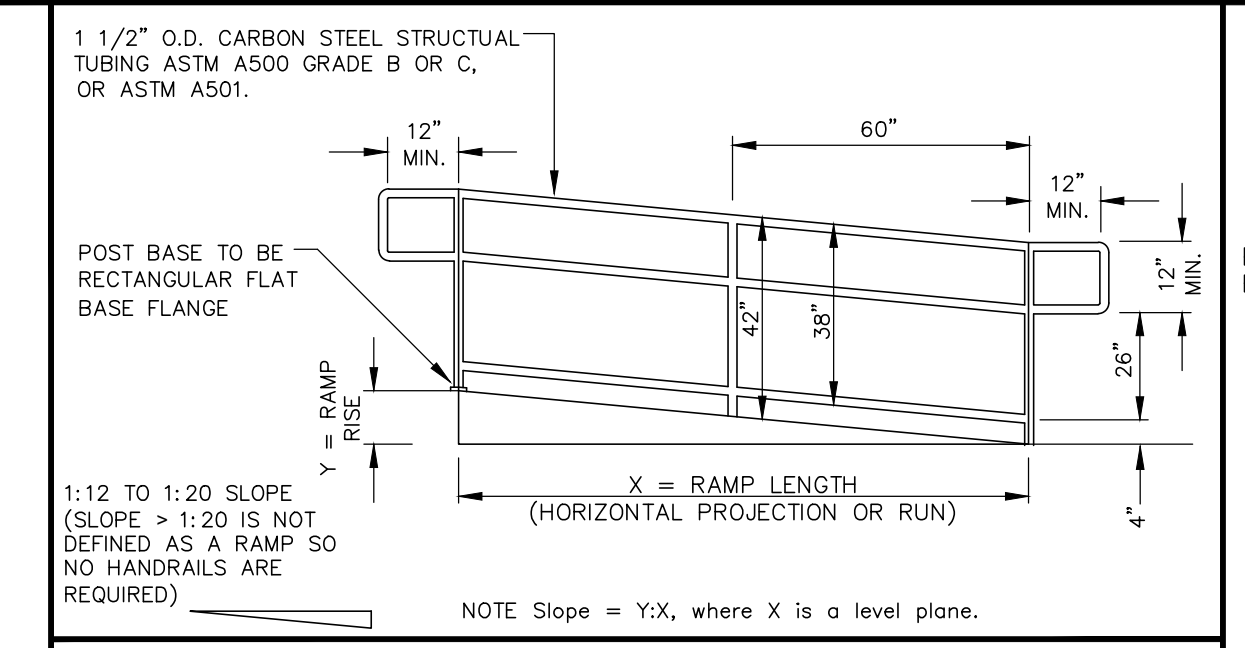
WHEELCHAIR RAMP C



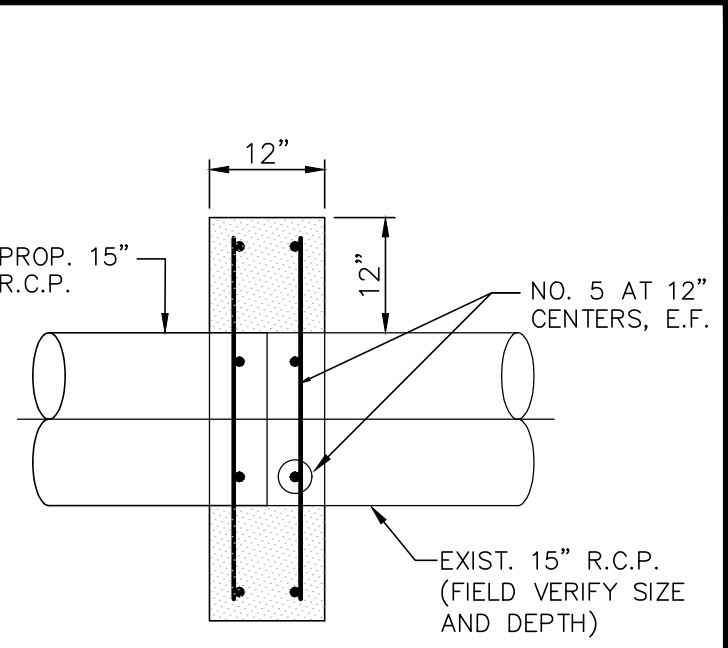
WHEELCHAIR RAMP D



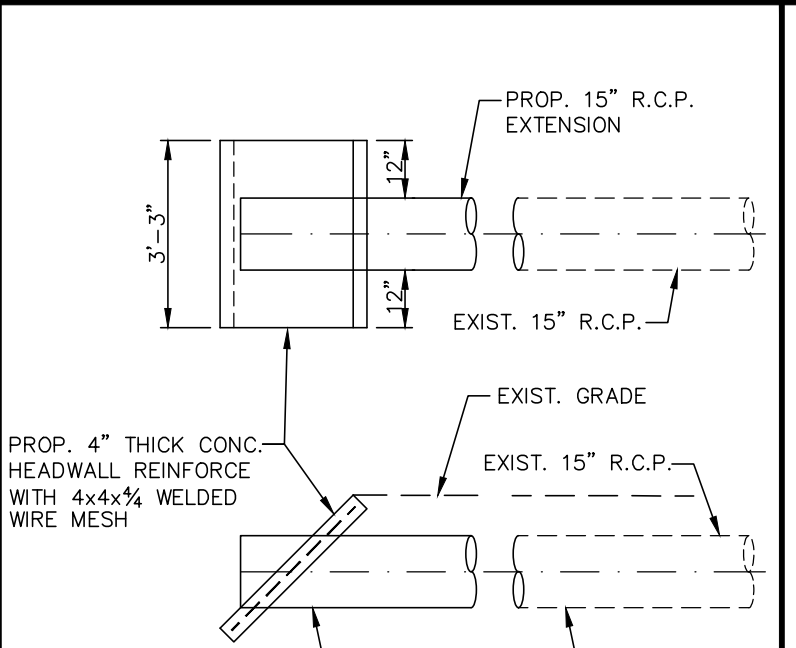
SAFETY END TREATMENT TYPE 'C' OR TYPE 'P'



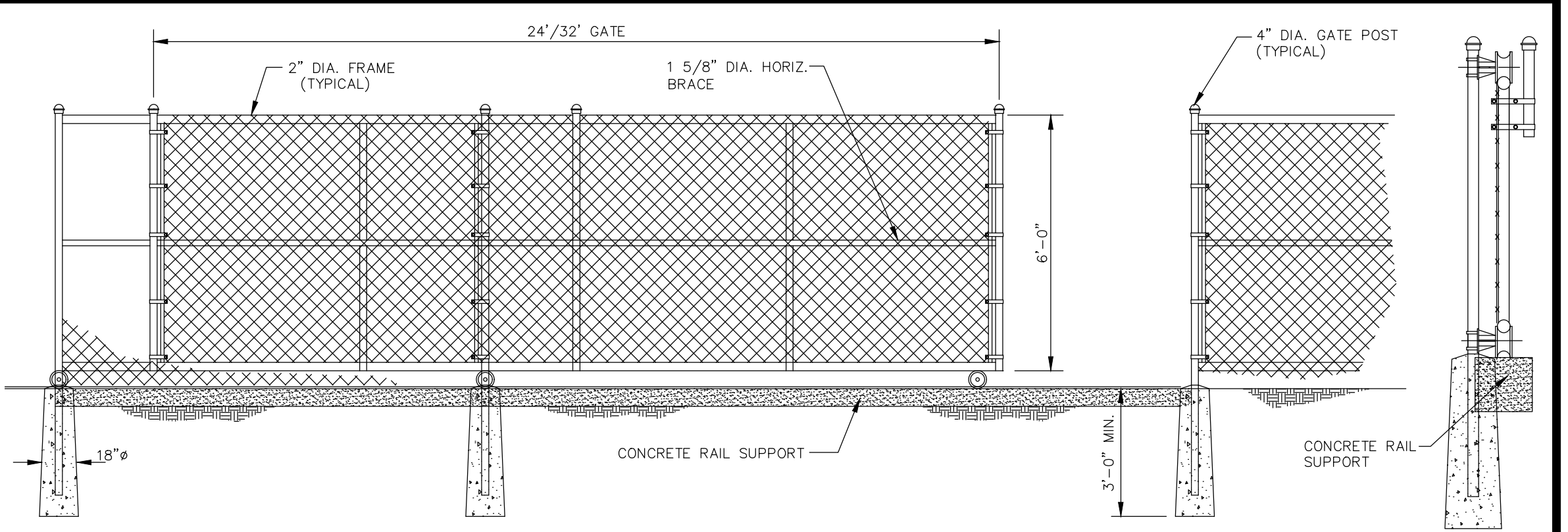
RAMPS AND RAILING



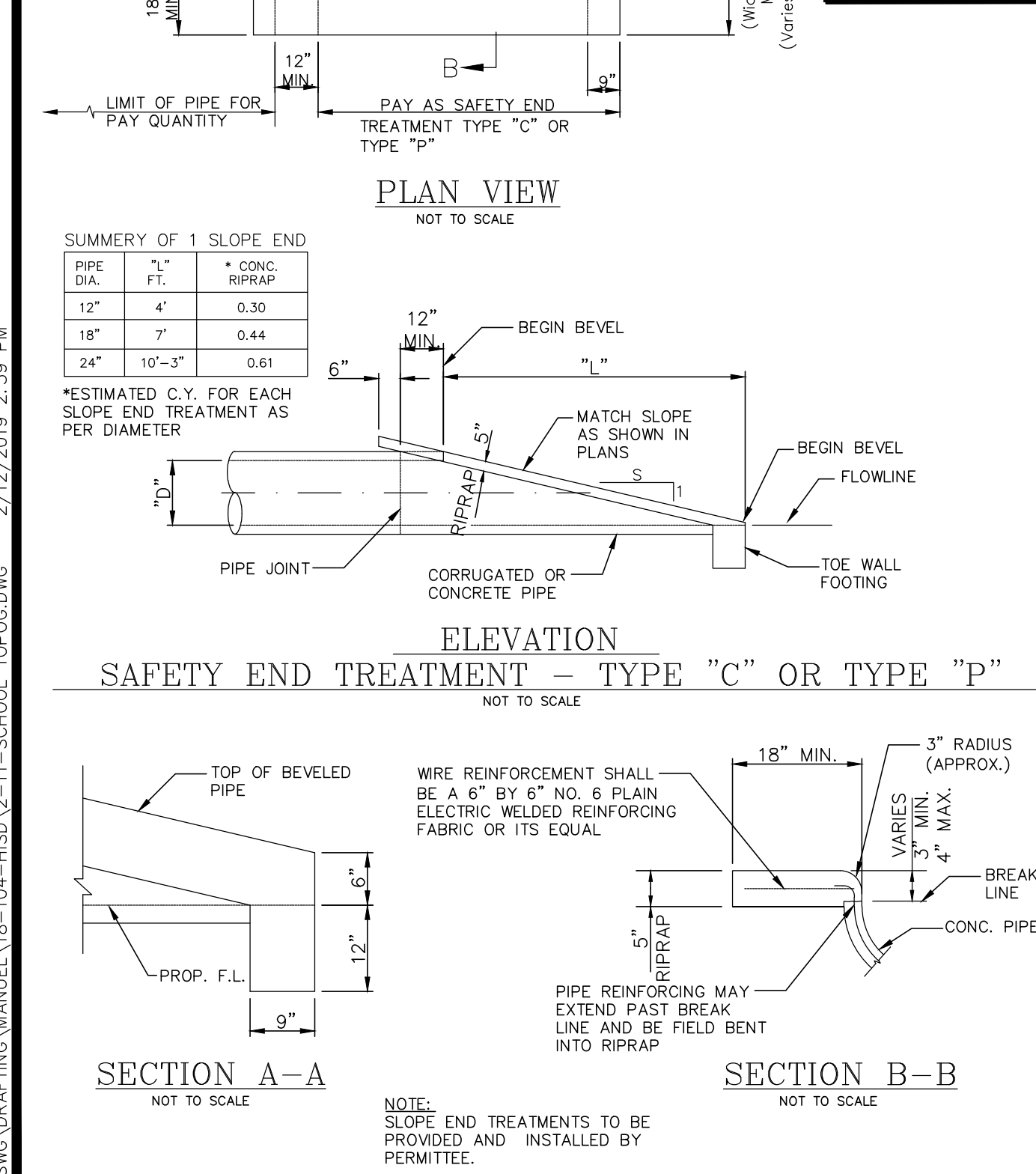
TYPICAL CONCRETE COLLAR DETAIL



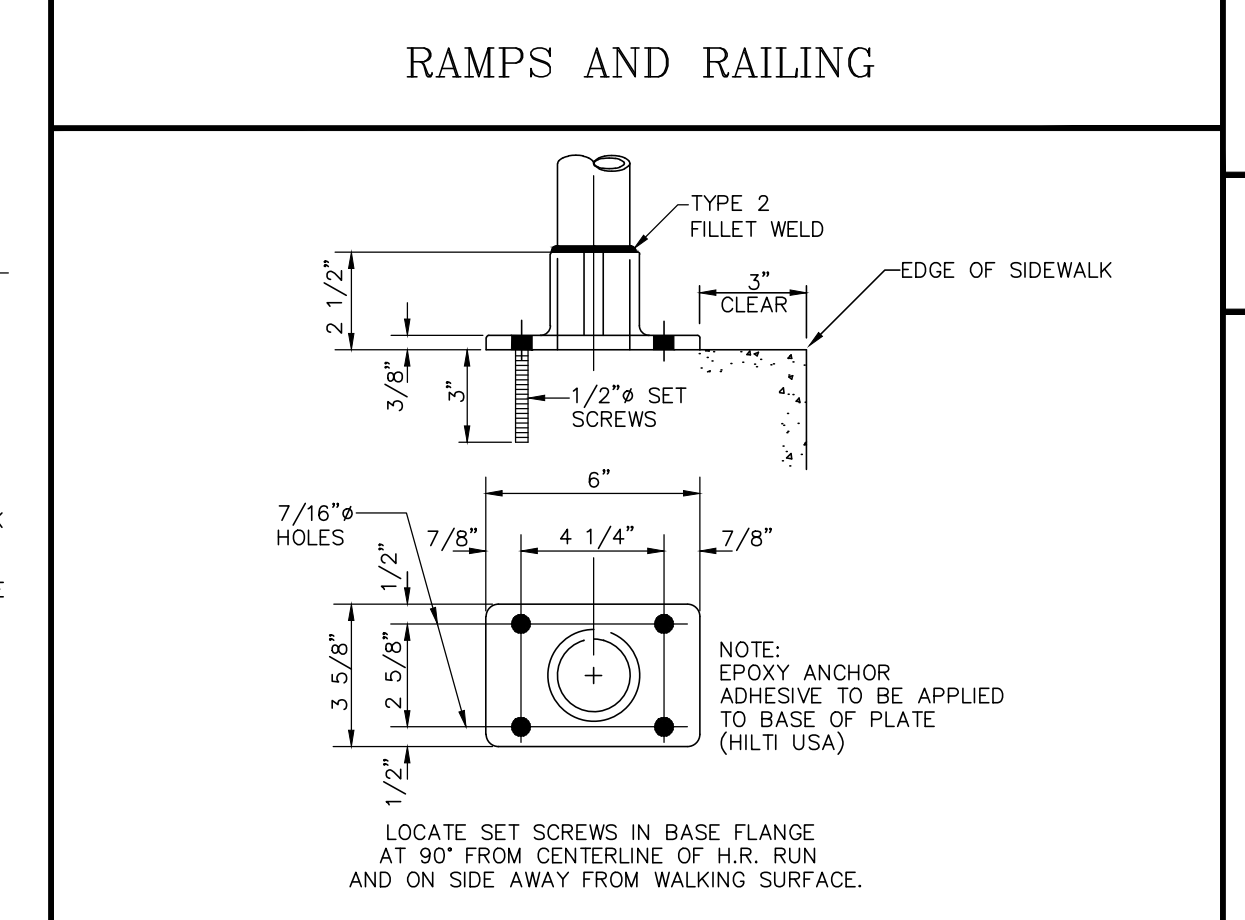
TYPICAL HEADWALL DETAIL



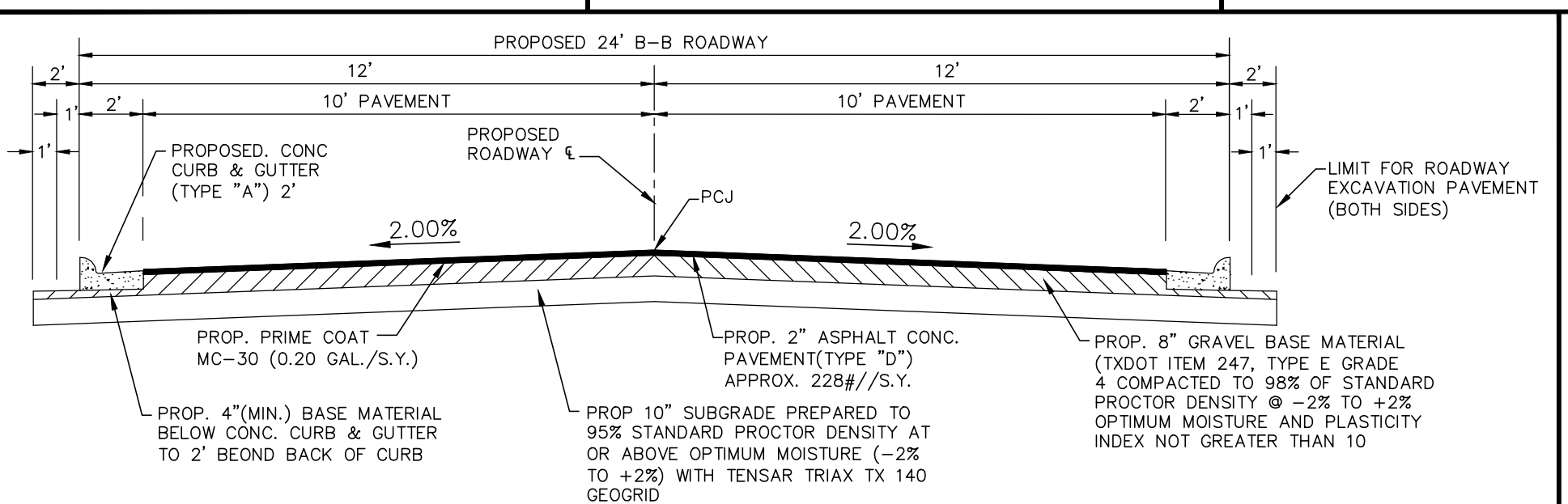
CHAIN LINK ROLLING GATE DETAILS



SAFETY END TREATMENT SLOPE END DETAILS



RECTANGULAR FLAT BASE FLANGE



TYPICAL STREET SECTION AS PER CITY OF HARLINGEN STANDARDS

ADDENDUM #1

REV.	DATE	DESCRIPTION	BY
		HARLINGEN CONSOLIDATED INDEPENDENT SCHOOL DISTRICT HARLINGEN, TEXAS	

CONSTRUCTION DETAILS

SIGLER, WINSTON, GREENWOOD AND ASSOCIATES, LLC
SWG ENGINEERING, LLC
TEXAS FIRM REGISTRATION NO. F-592
WESLACO, TEXAS

STATE OF TEXAS
LICENSED PROFESSIONAL ENGINEER
JOSE G. REYES, JR.
93827

2/5/2019

COPYRIGHT 2019 SWG ENGINEERING, LLC

DRAWN: MV Jr.	CHECKED: JGR, Jr.	PROJECT NO.:
DATE: FEB., 2019	SHEET: 10 OF 15	18-104-10

\\SERVER\SWG\DRAWING\MANUAL\18-104-HSD\2-11-SCHOOL_TOPOG.DWG 2/12/2019 2:59 PM

GENERAL NOTES

FOR TYPE III BARRICADES

Type III Barricades are to be used at each end of construction projects closed to all traffic. CK: Barricades extending across a roadway should have stripes that slope downward in the direction toward which traffic must turn in detouring. When both right and left turns are provided for, the chevron striping may slope downward in both directions from the center of the barricade.

Striping of rails, for the right side of the roadway, should slope downward to the left. For the left side of the roadway, striping should slope to the right.

Identification markings may be shown only on back side of barricade rails. Maximum height of letters shall be 25mm.

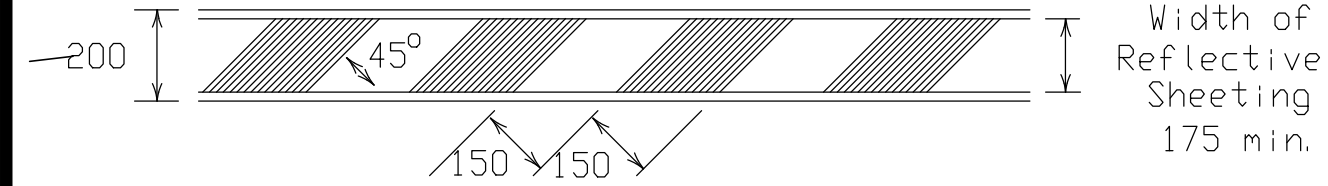
Barricades shall not be placed parallel to traffic unless an adequate clear zone is provided (see BC(1)).

Barricades shall be made using pre-qualified materials. A list of compliant products and their sources may be obtained by writing or faxing:

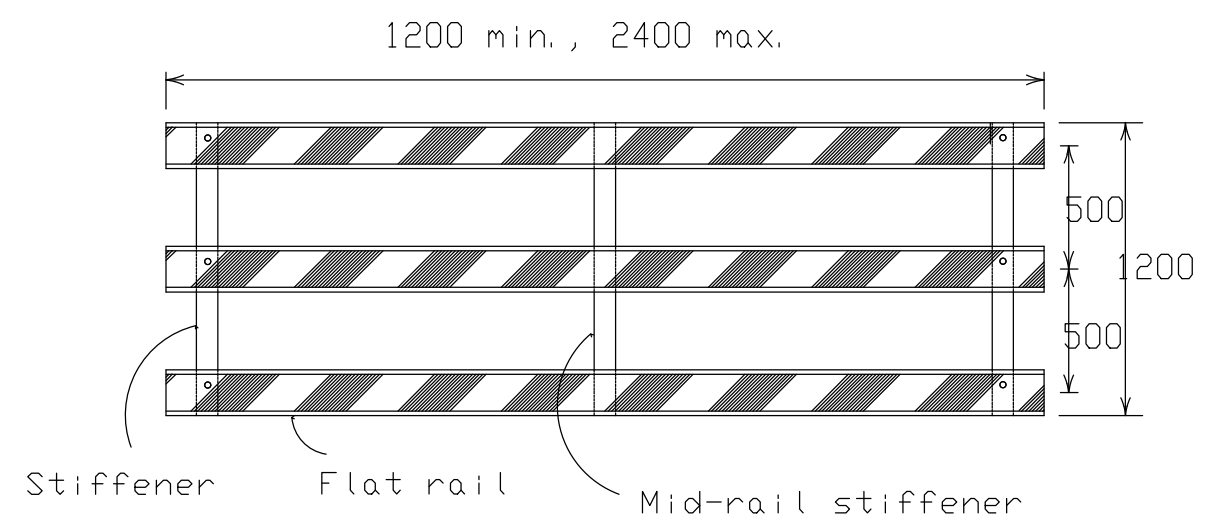
Standards Engineer
Traffic Operations Division - TE
Texas Department of Transportation
125 East 11th Street
Austin, Texas 78701-2483
Phone (512) 416-3335
Fax (512) 416-3161
E-mail TRF-STANDARD@mailgw.dot.state.tx.us

Barricades shall NOT be used as a sign support.

TYPICAL STRIPING DETAIL FOR BARRICADE RAIL



TYPICAL PANEL DETAIL FOR SKID OR POST TYPE BARRICADES

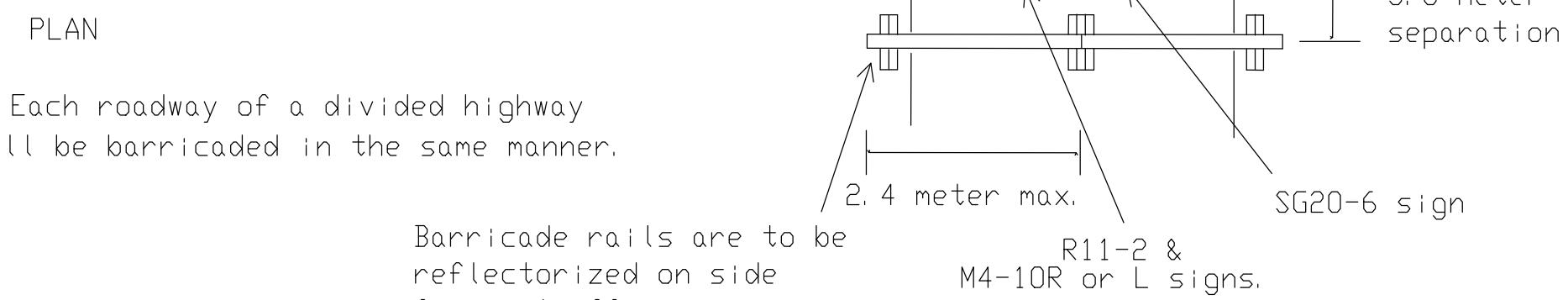
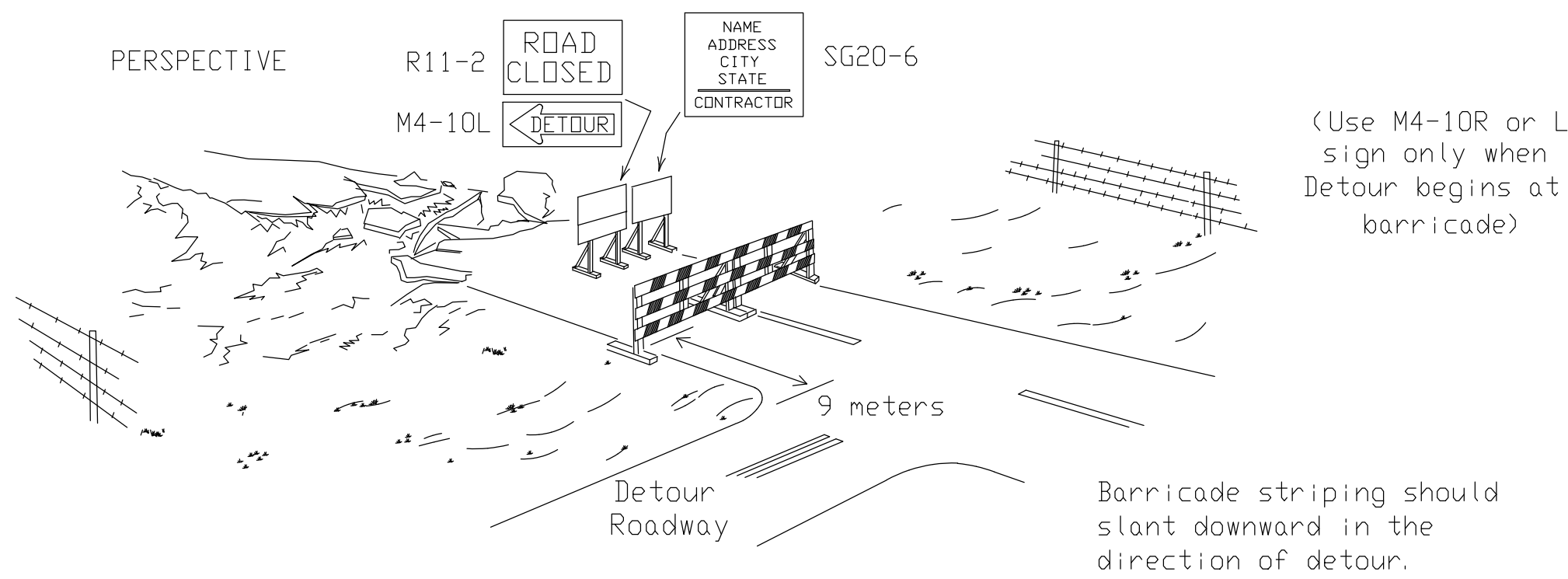


Stiffener Flat rail Mid-rail stiffener

Stiffener may be inside or outside of support.

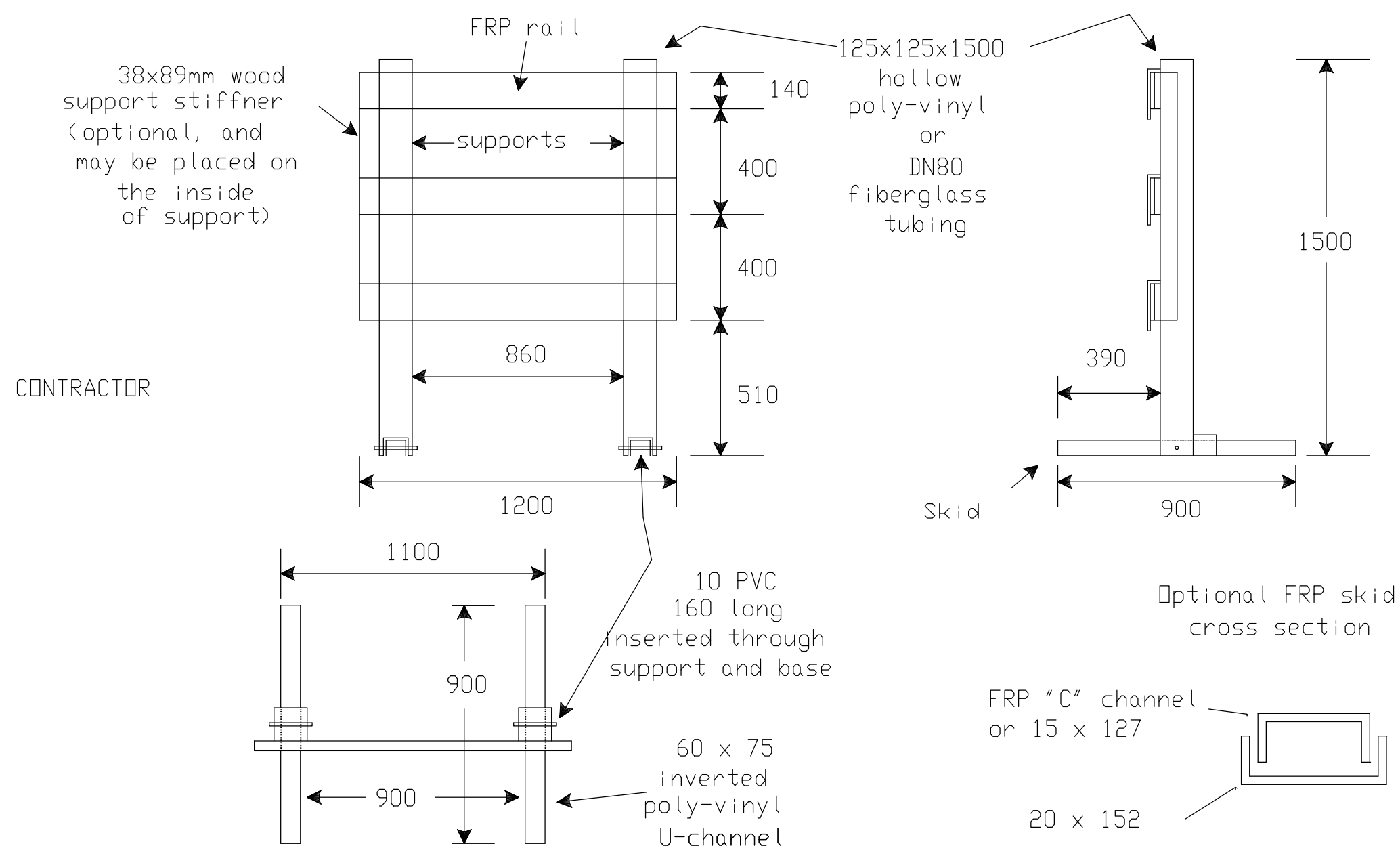
* For dimensions of components refer to TxDOT approved products list.

TYPE III BARRICADE (SKID)

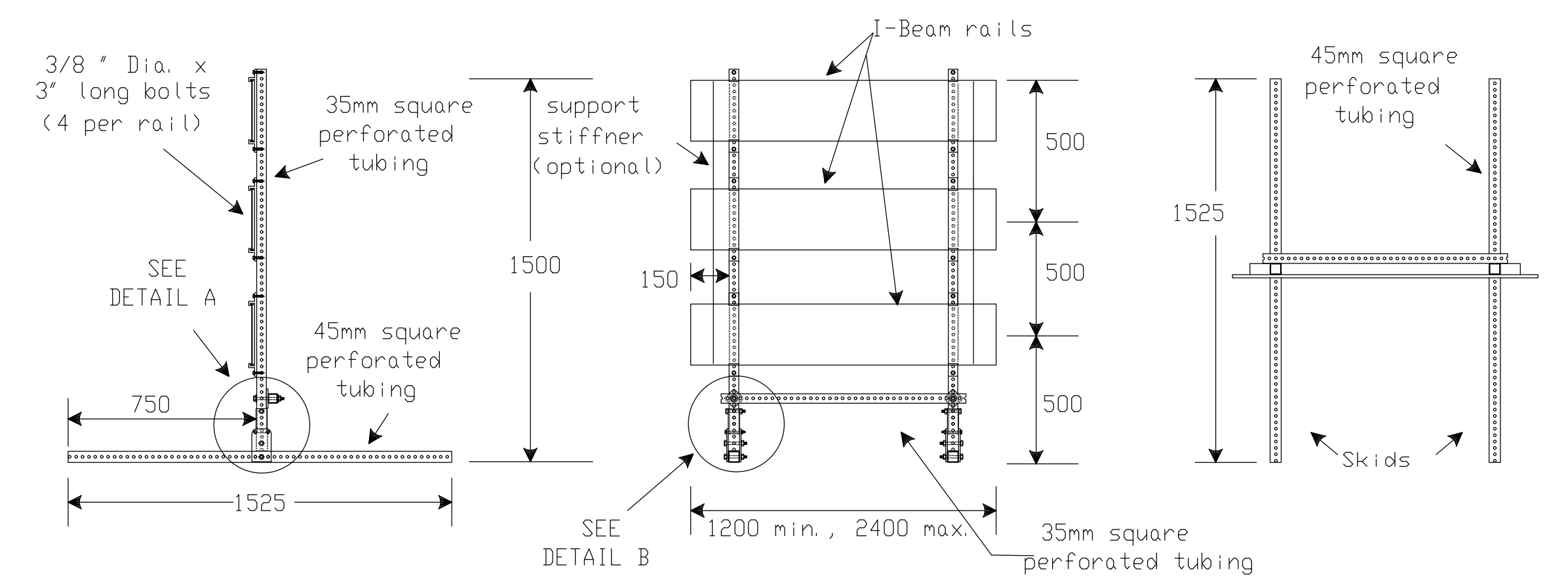


- 1). R11-2 and M4-10 signs should be mounted on independent supports at 2100 millimeter mounting height in center of roadway.
- 2). Advance signing, including construction warning signs, and detour signing shall be as specified elsewhere in the plans.

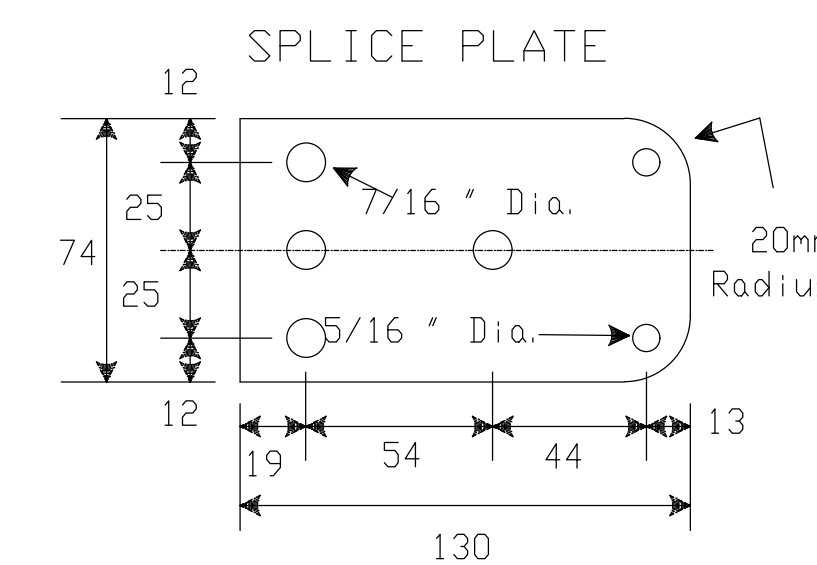
PLASTIC/FIBERGLASS TYPE III BARRICADE OPTION



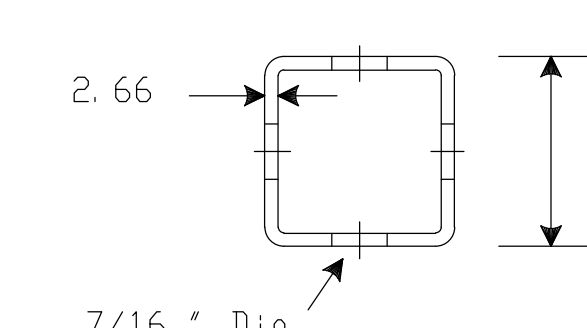
PERFORATED STEEL/WOOD/PLASTIC TYPE III BARRICADE OPTION



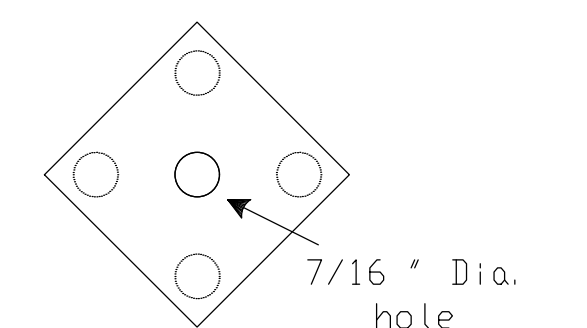
NOTE: If flat rails are used, refer to Wood/Plastic Option for vertical placement of rails



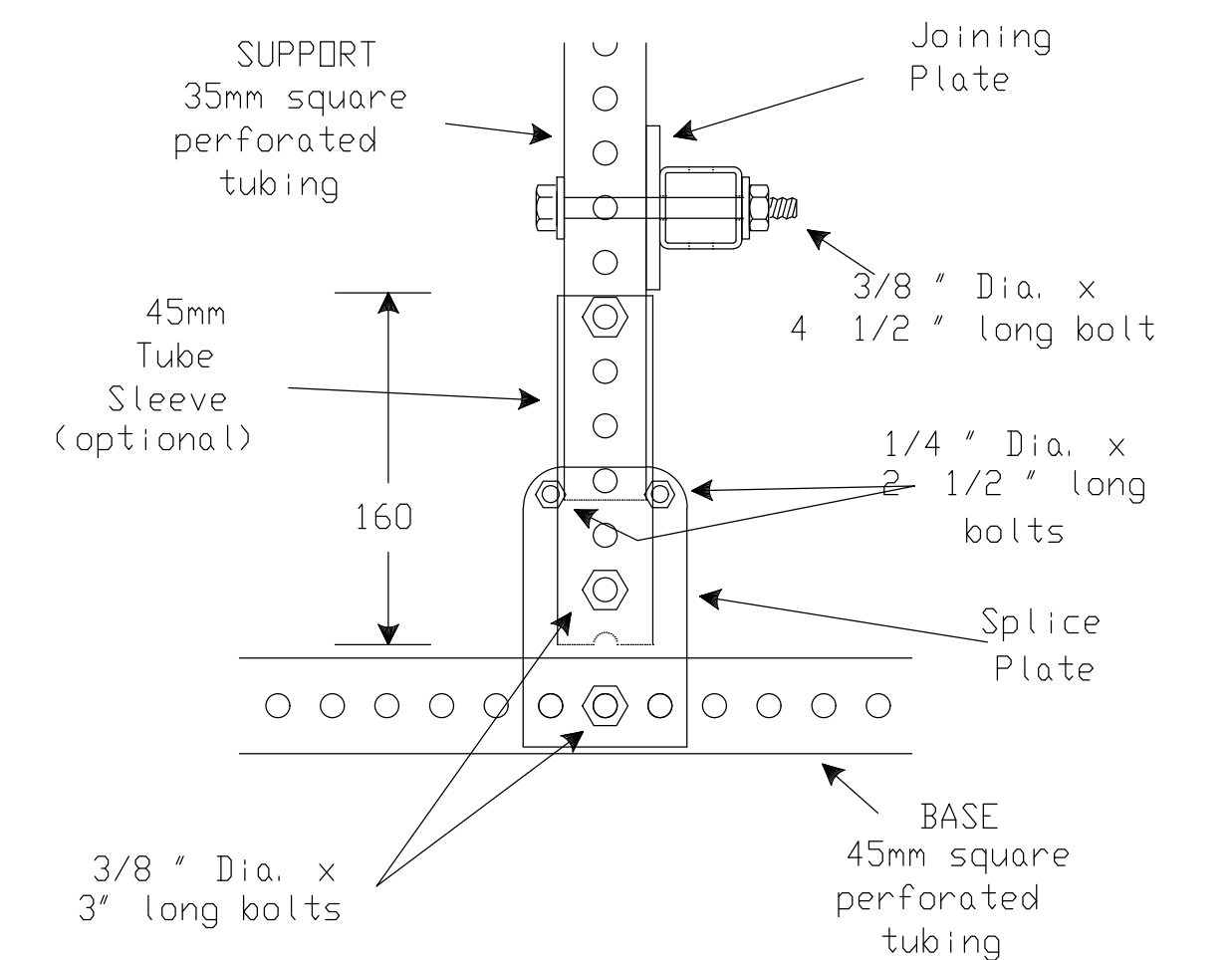
35mm PERFORATED SQUARE STEEL TUBE



JOINING PLATE

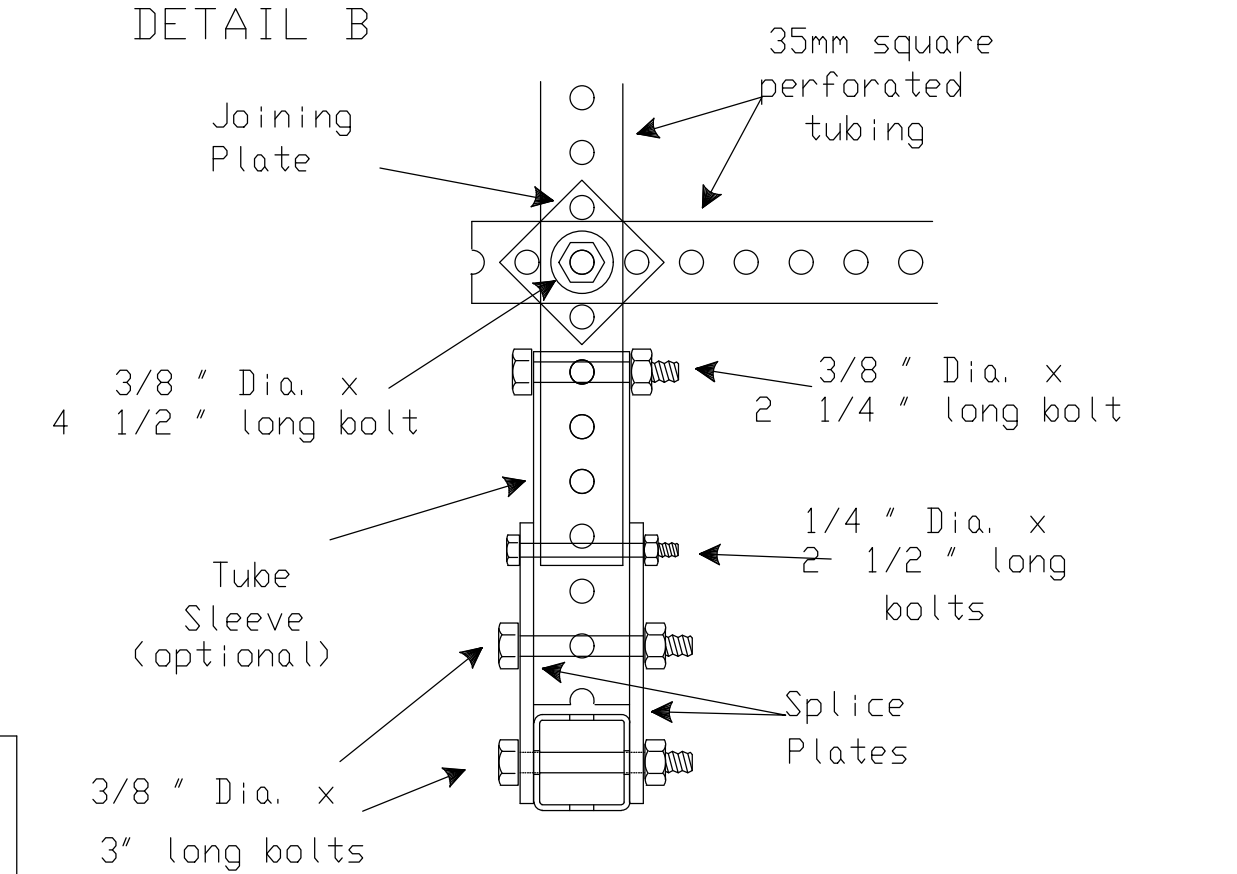


DETAIL A



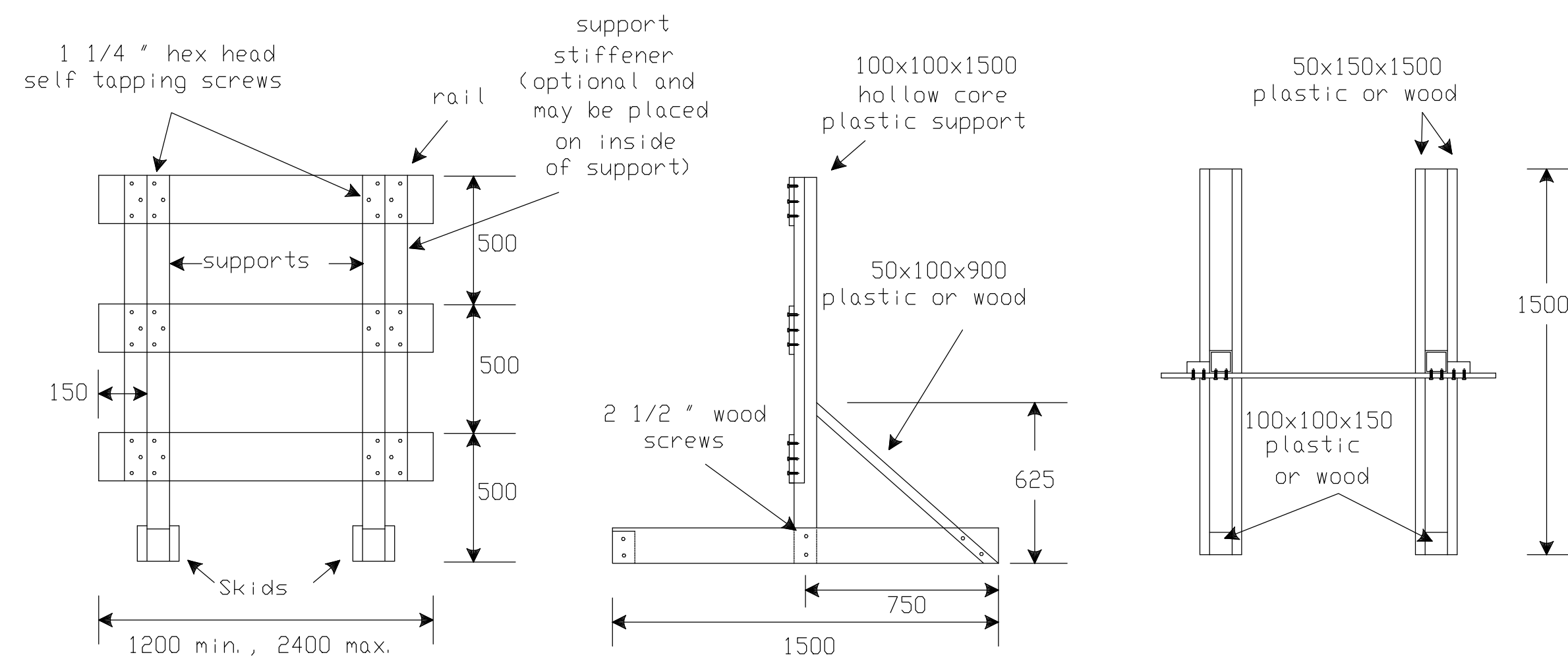
(Option: tube sleeve and base may be welded)

DETAIL B

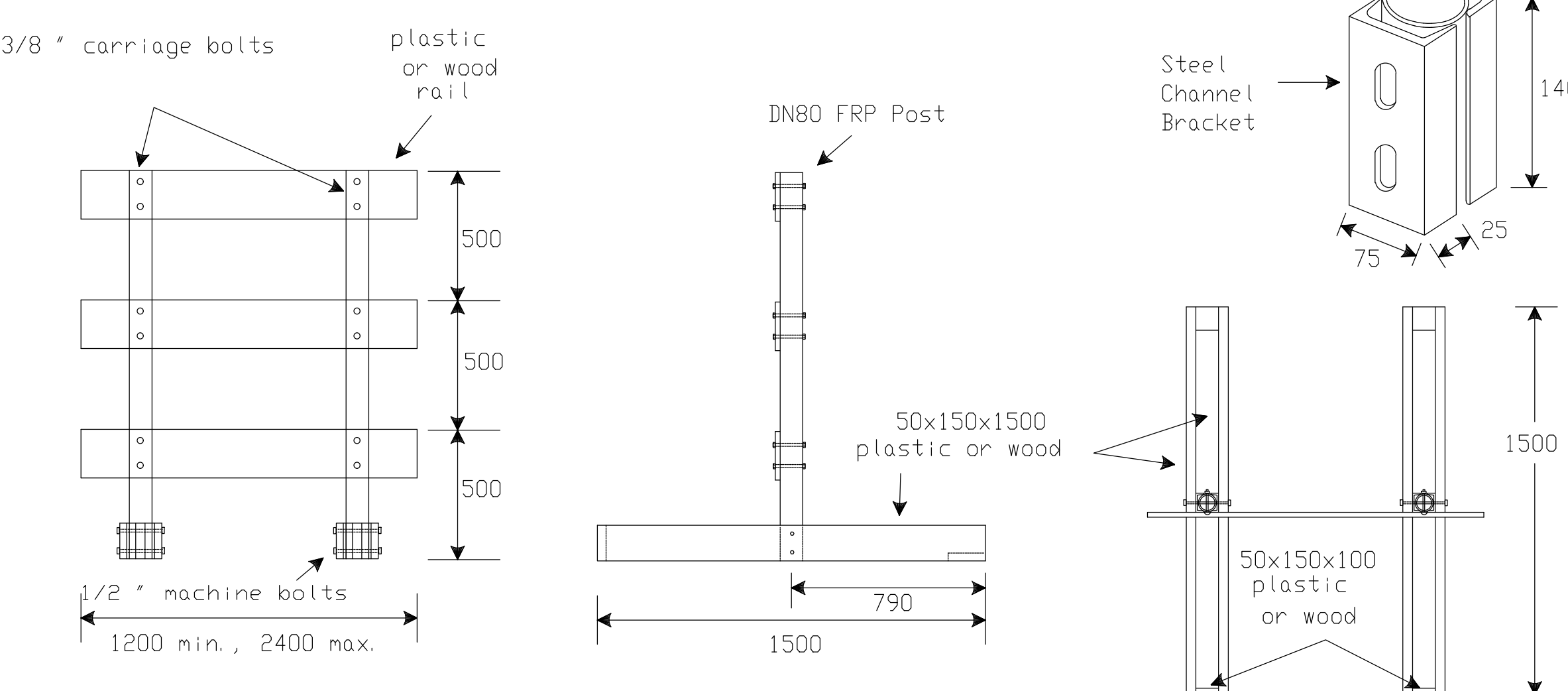


All dimensions are in millimeters unless otherwise noted.

WOOD/PLASTIC TYPE III BARRICADE OPTION



WOOD/PLASTIC/FIBERGLASS TYPE III BARRICADE OPTION

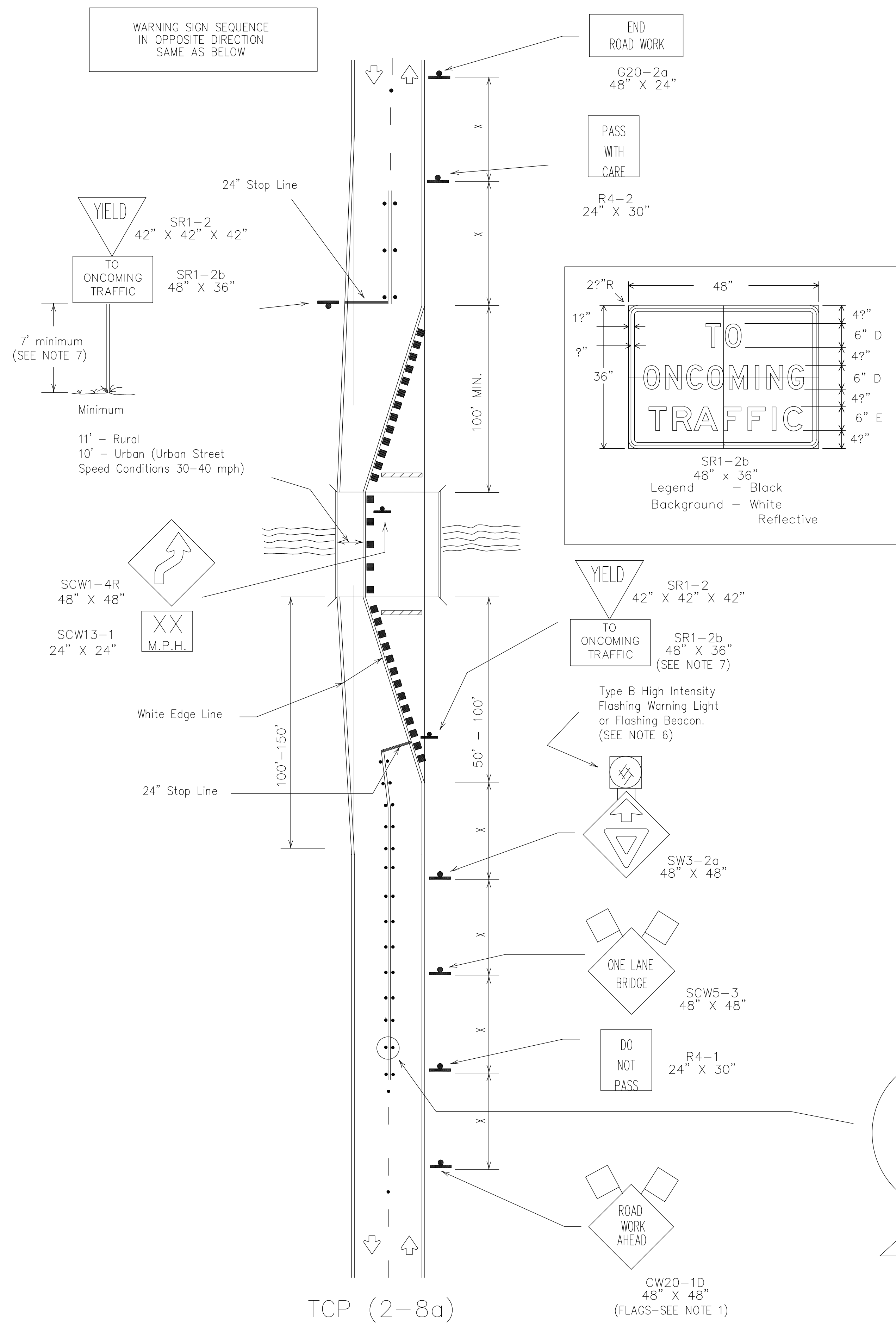


STANDARD PLANS
TEXAS DEPARTMENT OF TRANSPORTATION
Traffic Operations Division

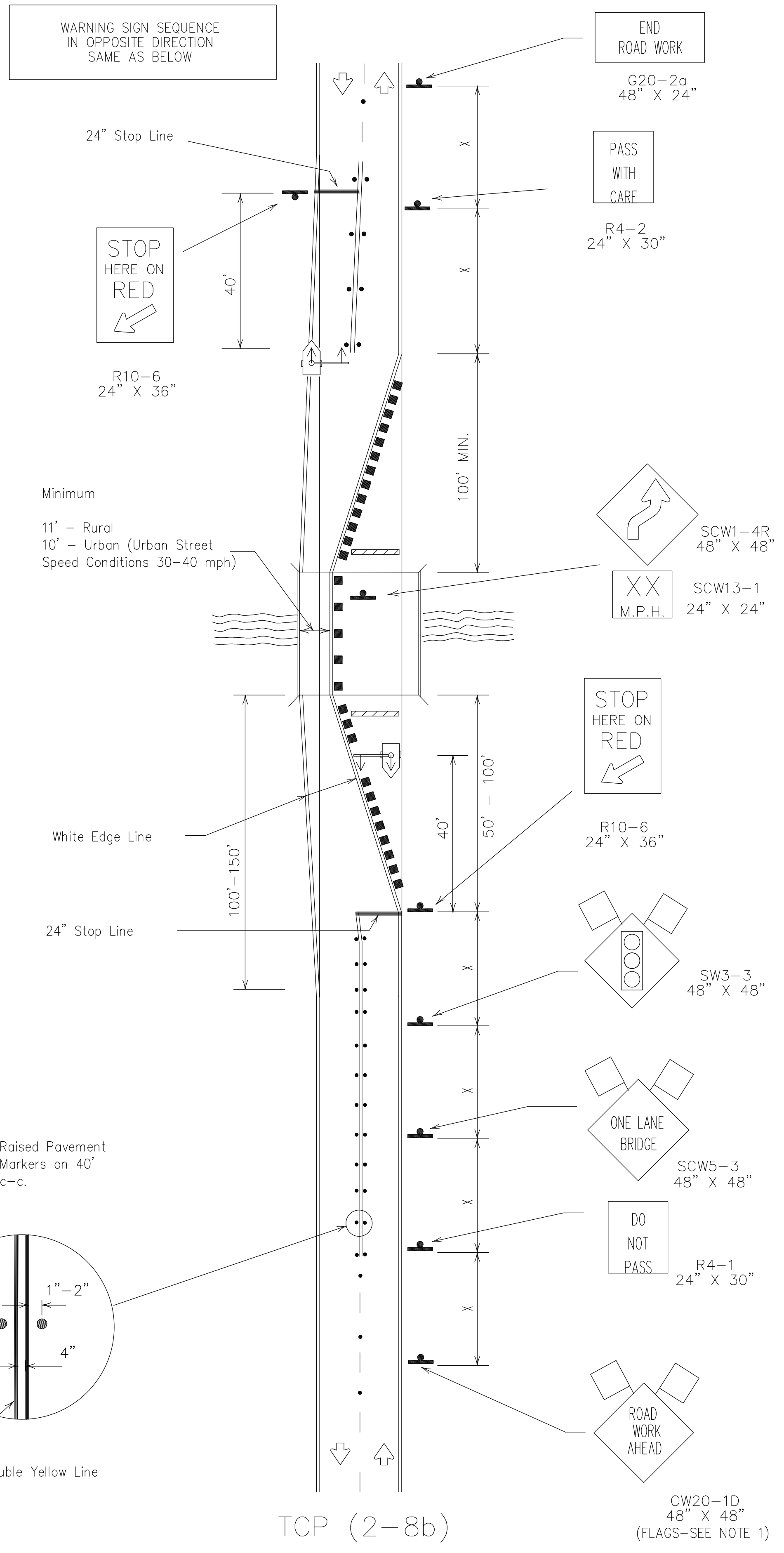
BARRICADE AND CONSTRUCTION STANDARDS

BARRICADES (SKID MOUNT TYPE) BC(2)-98(M)

REVISONS	STATE DISTRICT	FEDERAL REGION	FEDERAL AID PROJECT	NEG NO.
	6			
	COUNTY	CONTROL	SECTION	JOB SHEET
				11 OF 15



TCP (2-8a)
 Two-Way Traffic Control
 With Yield Signs



TCP (2-8b)
 Two-Way Traffic Control
 With Traffic Signal

LEGEND

Type III Barricade
 Channelizing Devices
 Flag
 Flagger
 Sign Post
 Temporary or Portable Traffic Signals

• • • Raised Pavement Markers Type II-A-5 (40' spacing)

Posted Speed*	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Device		Minimum Sign Spacing X Distance
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'-75'	120'
35		205'	225'	245'	35'	70'-90'	160'
40	L=WS	265'	295'	320'	40'	80'-100'	240'
45		450'	495'	540'	45'	90'-110'	320'
50	L=WS	500'	550'	600'	50'	100'-125'	400'
55		550'	605'	660'	55'	110'-140'	500'
60	L=WS	600'	660'	720'	60'	120'-150'	* 600'
65		650'	715'	780'	65'	130'-165'	* 700'
70	L=WS	700'	770'	840'	70'	140'-175'	* 800'
75		750'	825'	900'	75'	150'-195'	* 900'

* Conventional Roads Only
 ** Taper lengths have been rounded off.
 L=Length of Taper (FT.) W=Width of Offset (FT.) S=Posted Speed (MPH)

TYPICAL USAGE:

MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
			✓	✓

GENERAL NOTES:

- Unless otherwise stated in the plans, flags attached to signs are REQUIRED.
- Advance Warning signing shown for one direction.
- Raised reflective pavement markers shall be placed 40' c-c on centerline between ROAD WORK AHEAD signs and stop lines.
- For intermediate term situations, when it is not feasible to remove and restore pavement markings, the channelization must be made dominant by using a very close spacing. This is especially important in locations of conflicting information, such as where traffic is directed over a double yellow centerline. In such locations a maximum channelizing device spacing of 10 feet is recommended. The 10 foot channelizing device spacing recommendation is intended for the area of conflicting information and not the entire work zone.

TCP (2-8a)

- Traffic control by YIELD AHEAD symbol signs for one lane two-way traffic control operations should be limited to structures less than 400' long and roadways with less than 4000 ADT. Portable traffic signals should be used on other roadways.
- If power is available, a flashing beacon should be attached to the YIELD AHEAD symbol sign for emphasis.
- YIELD and TO ONCOMING TRAFFIC signs and other regulatory signs shall be installed at 7' minimum mounting height.

TCP (2-8b)

- A list of approved Portable Traffic Signals can be found on compliant products list.



TRAFFIC CONTROL PLAN

TCP(2-8)-03

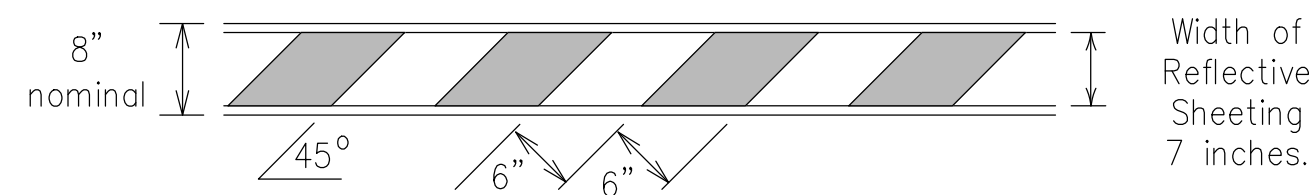
©TxDOT December 1985		DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT
8-95	REVISIONS	CONT	SECT	JOB	HIGHWAY
1-97					
4-98					
3-03		DIST	COUNTY		SHEET NO.
					12 OF 15

TYPE III BARRICADES

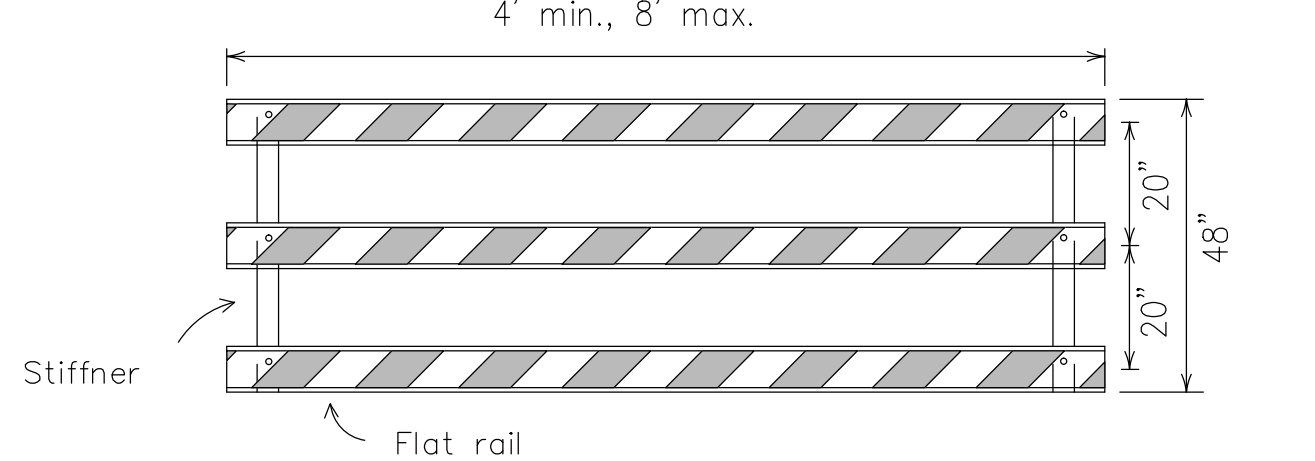
1. Refer to the Compliant Work Zone Traffic Control Devices List (CWZTCD) for details of the Type III Barricades and a list of all materials used in the construction of Type III Barricades.
2. Type III Barricades shall be used at each end of construction projects closed to all traffic.
3. Barricades extending across a roadway should have stripes that slope downward in the direction toward which traffic must turn in detouring. When both right and left turns are provided, the chevron striping may slope downward in both directions from the center of the barricade. Where no turns are provided at a closed road striping should slope downward in both directions toward the center of roadway.
4. Striping of rails, for the right side of the roadway, should slope downward to the left. For the left side of the roadway, striping should slope downward to the right.
5. Identification markings may be shown only on the back of the barricade rails. The maximum height of letters and/or company logos used for identification shall be 1".
6. Barricades shall not be placed parallel to traffic unless an adequate clear zone is provided.
7. Warning lights shall NOT be installed on barricades.
8. Where barricades require the use of weights to keep from turning over, the use of sandbags with dry, cohesionless sand is recommended. The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight. Sand bags shall not be stacked in a manner that covers any portion of a barricade rails reflective sheeting. Rock, concrete, iron, steel or other solid objects will NOT be permitted. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs. Sandbags shall be made of a durable material that tears upon vehicular impact. Rubber (such as tire inner tubes) shall not be used for sandbags. Sandbags shall only be placed along or upon the base supports of the device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners. 9. Sheeting for barricades shall be retroreflective Type C (High Specific Intensity) conforming to Departmental Material Specification DMS-8300 unless otherwise noted.

Barricades shall NOT be used as a sign support.

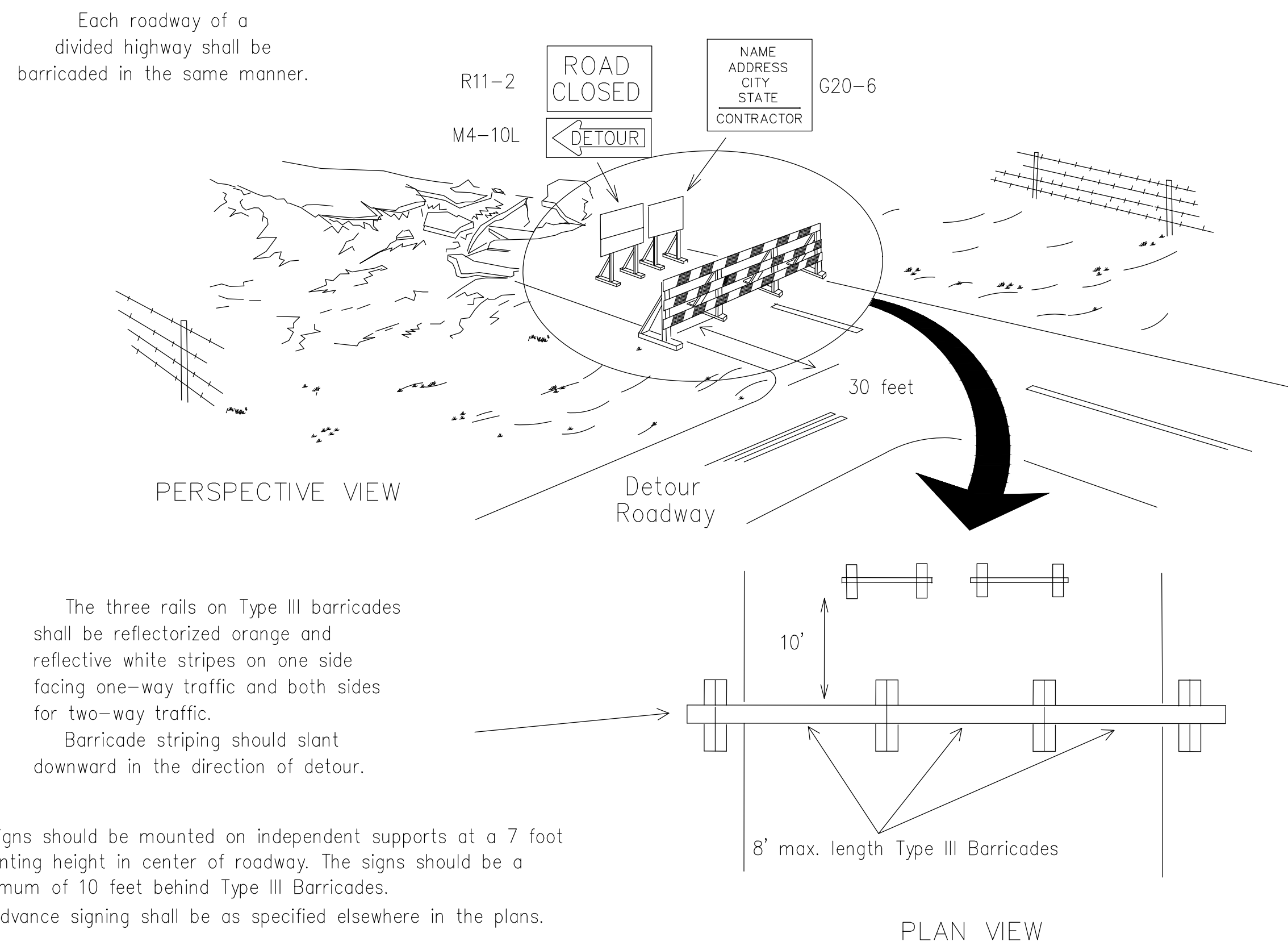
TYPICAL STRIPING DETAIL FOR BARRICADE RAIL



TYPICAL PANEL DETAIL FOR SKID OR POST TYPE BARRICADES

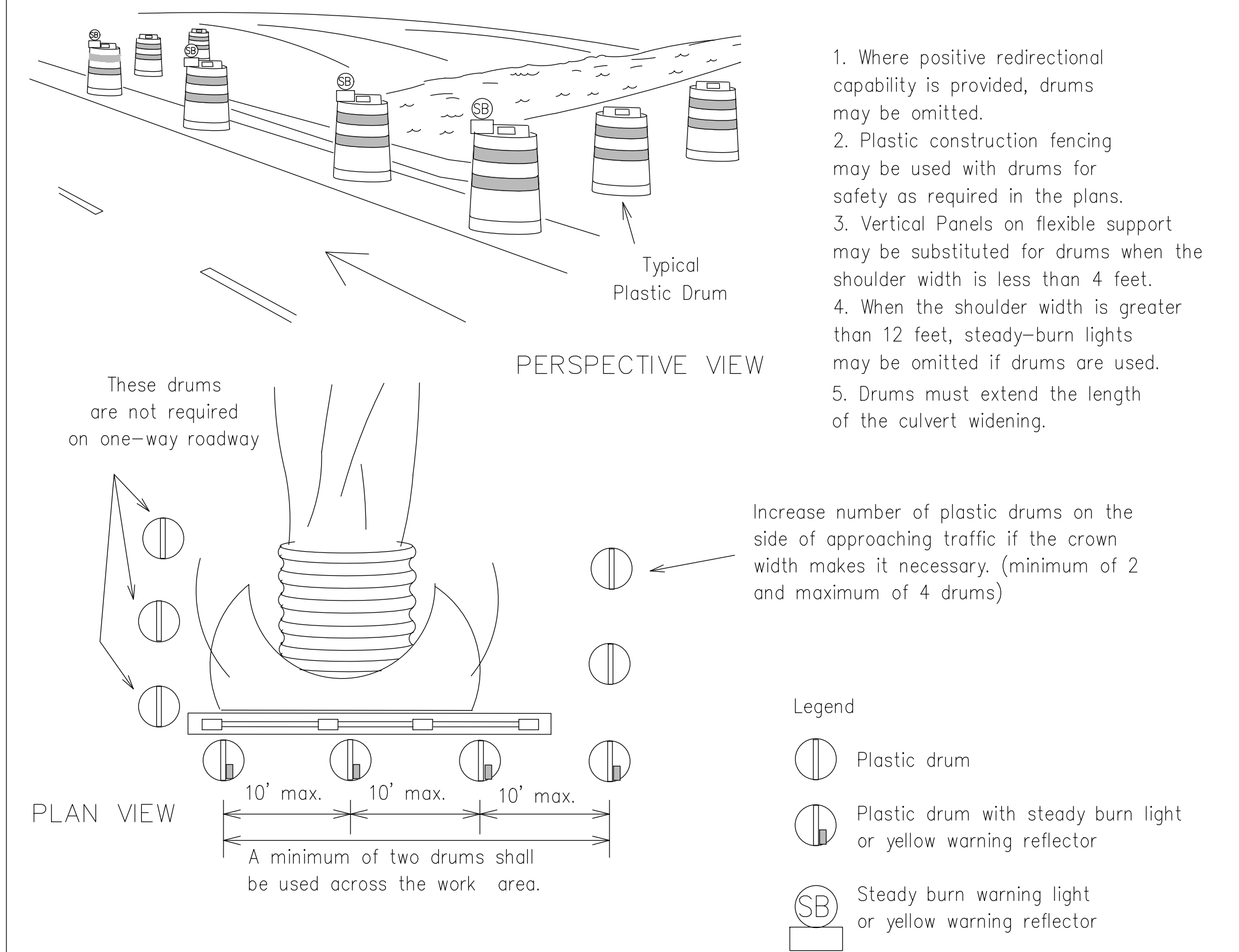


TYPE III BARRICADE (POST AND SKID) TYPICAL APPLICATION



1. Signs should be mounted on independent supports at a 7 foot mounting height in center of roadway. The signs should be a minimum of 10 feet behind Type III Barricades.
2. Advance signing shall be as specified elsewhere in the plans.

CULVERT WIDENING OR OTHER ISOLATED WORK WITHIN THE PROJECT LIMITS

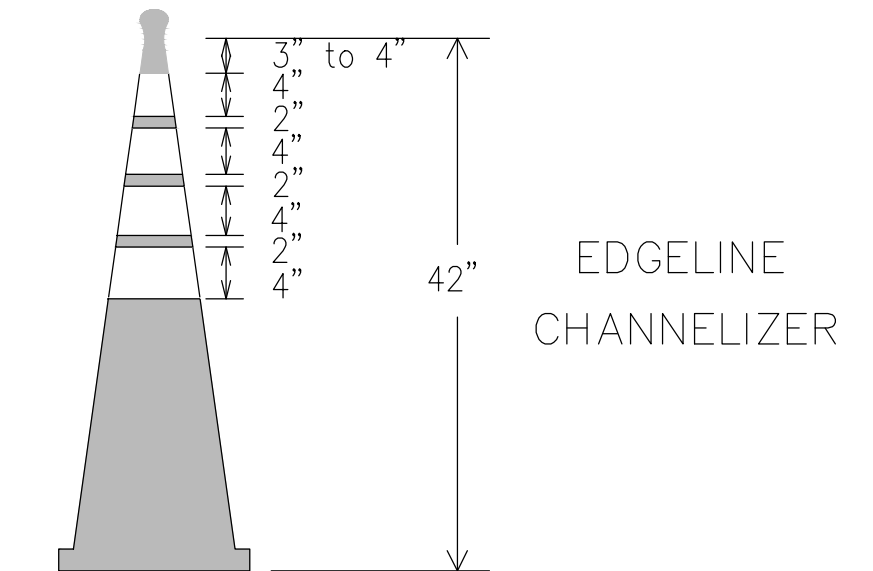
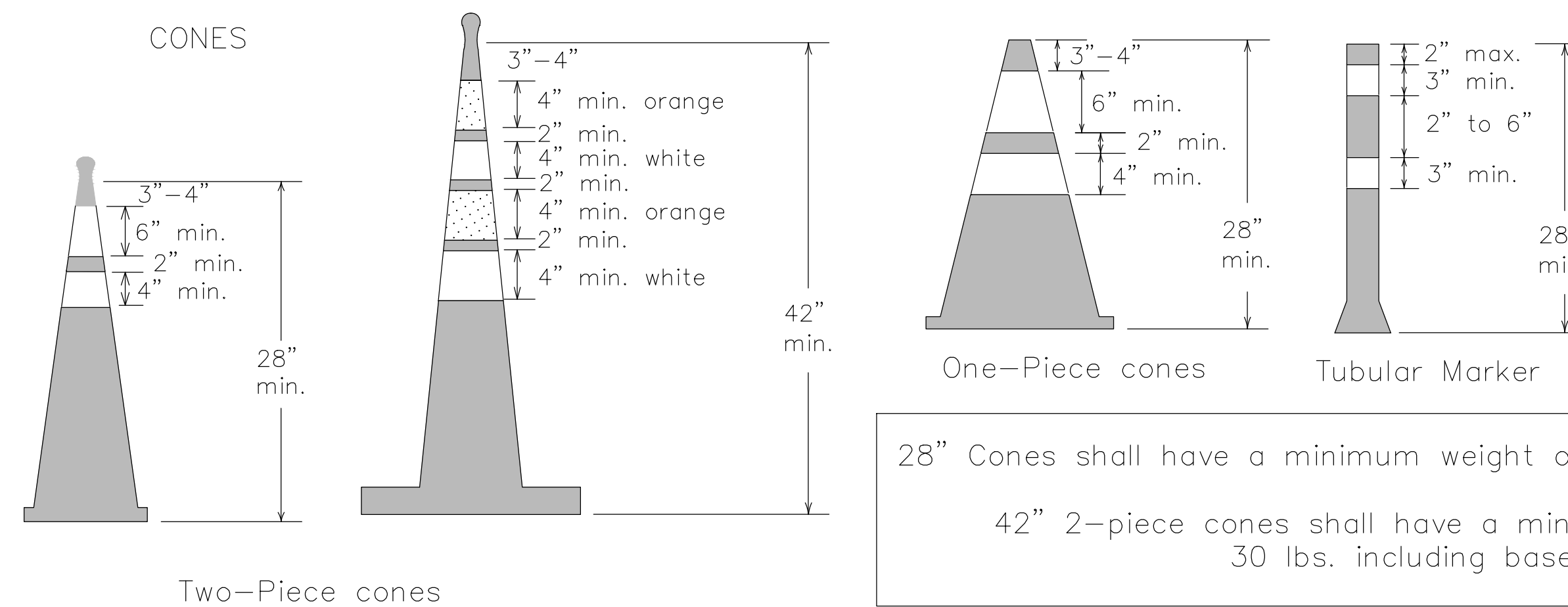


1. Where positive redirection capability is provided, drums may be omitted.
2. Plastic construction fencing may be used with drums for safety as required in the plans.
3. Vertical Panels on flexible support may be substituted for drums when the shoulder width is less than 4 feet.
4. When the shoulder width is greater than 12 feet, steady-burn lights may be omitted if drums are used.
5. Drums must extend the length of the culvert widening.

Increase number of plastic drums on the side of approaching traffic if the crown width makes it necessary. (minimum of 2 and maximum of 4 drums)

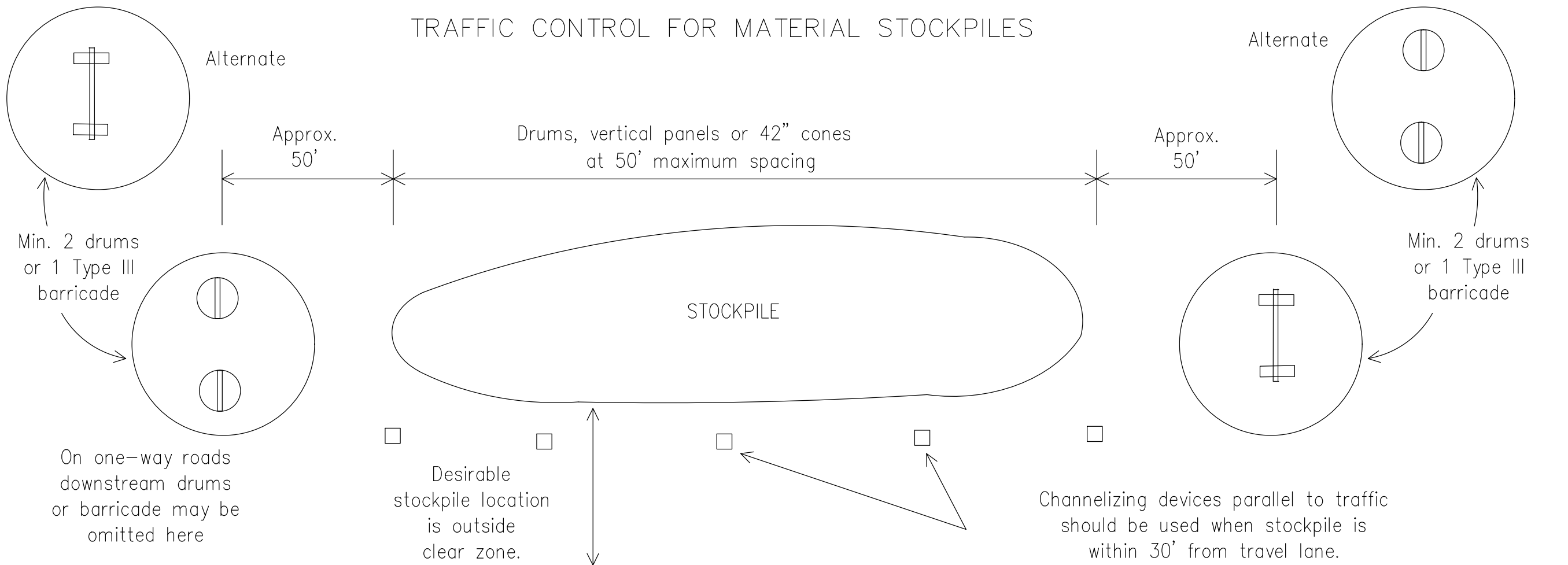
- Legend
- Plastic drum
 - Plastic drum with steady burn light or yellow warning reflector
 - Steady burn warning light or yellow warning reflector

CONES



1. This device is intended only for use in place of a vertical panel to channelize traffic by indicating the edge of the travel lane. It is not intended to be used in transitions or tapers.
2. This device shall not be used to separate lanes of traffic (opposing or otherwise) or warn of objects.
3. This device is based on a 42 inch, two-piece cone with an alternate striping pattern: four 4 inch retroreflective bands, with an approximate 2 inch gap between bands. The color of the band should correspond to the color of the edgeline (yellow for left edgeline, white for right edgeline) for which the device is substituted or for which it supplements. The reflectorized bands shall be retroreflective Type C encapsulated bead (High Specific Intensity) conforming to Departmental Material Specification DMS-8300, unless otherwise noted.
4. The base must weigh a minimum of 30 lbs.

TRAFFIC CONTROL FOR MATERIAL STOCKPILES



1. Traffic cones and tubular markers shall be a minimum of 28 inches in height when used either on freeways or at nighttime.
2. Cones or tubular markers shall be predominantly orange, fluorescent red-orange, or fluorescent yellow-orange. They should be kept clean and bright for maximum visibility.
3. Cones used only for daytime operations do not require the reflectorized bands.
4. Cones and tubular markers used for nighttime operations shall be reflectorized. Reflectorized material shall have a smooth, sealed outer surface that displays the same approximate color during the day and night. The reflectorized bands shall be retroreflective Type C (High Specific Intensity) conforming to Departmental Material Specification DMS-8300, unless otherwise noted.
5. When used at night, appropriate personnel shall ensure that cones and tubular markers remain in their proper location and in an upright position.
6. Reflectorization of 28" cones shall consist of a minimum 6 inch band placed at least 3 inches but not more than 4 inches from the top, supplemented by a minimum 4 inch band spaced a minimum of 2 inches below the 6 inch band.
7. Reflectorization of 42" cones shall be provided by alternating 4 to 6" orange and white stripes with orange on top.
8. Reflectorization of tubular markers shall be a minimum of two 3 inch bands placed a maximum of 2 inches from the top with a maximum of 6 inches between bands.
9. One-piece cones or tubular markers are generally suitable for temporary usage (up to 8 hours) with other channelization devices such as vertical panels, drums or two-piece cones for long term usage. Care should be taken to ensure they remain in their proper location and in an upright position.
10. Cones or tubular markers used on each project shall be of the same size and shape.
11. The handle may be designed as a hook or other shape, fabricated from non-rigid materials similar to the cone material, and may extend up to a maximum of 8 inches above the top of cone. Length of the handle shall not be considered with regard to the overall height of the cone.

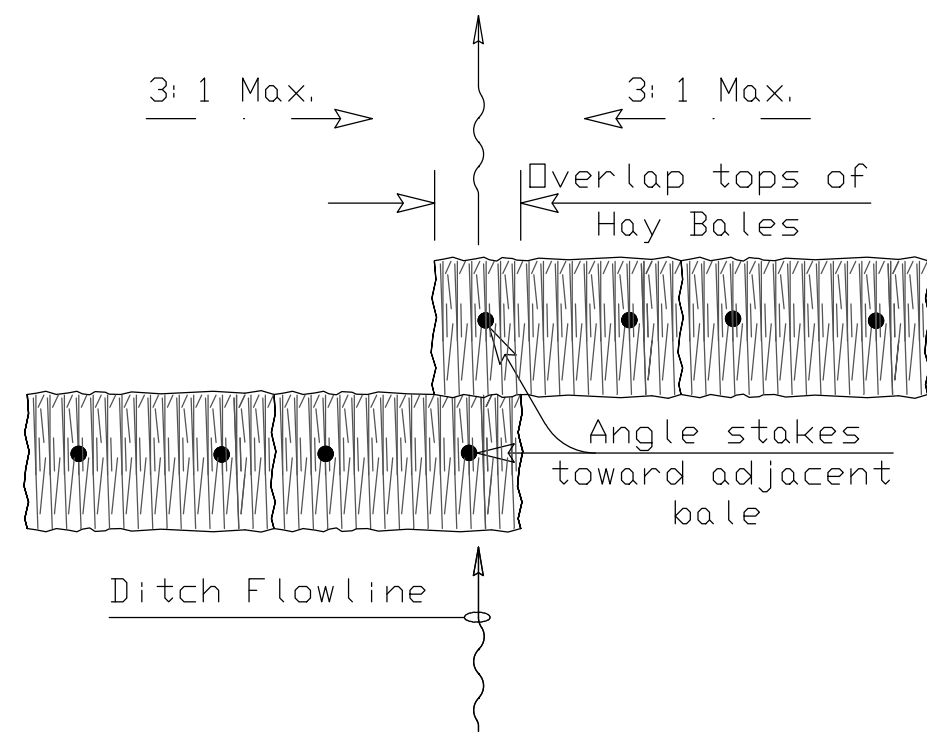
Texas Department of Transportation
Traffic Operations Division

BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES STANDARD

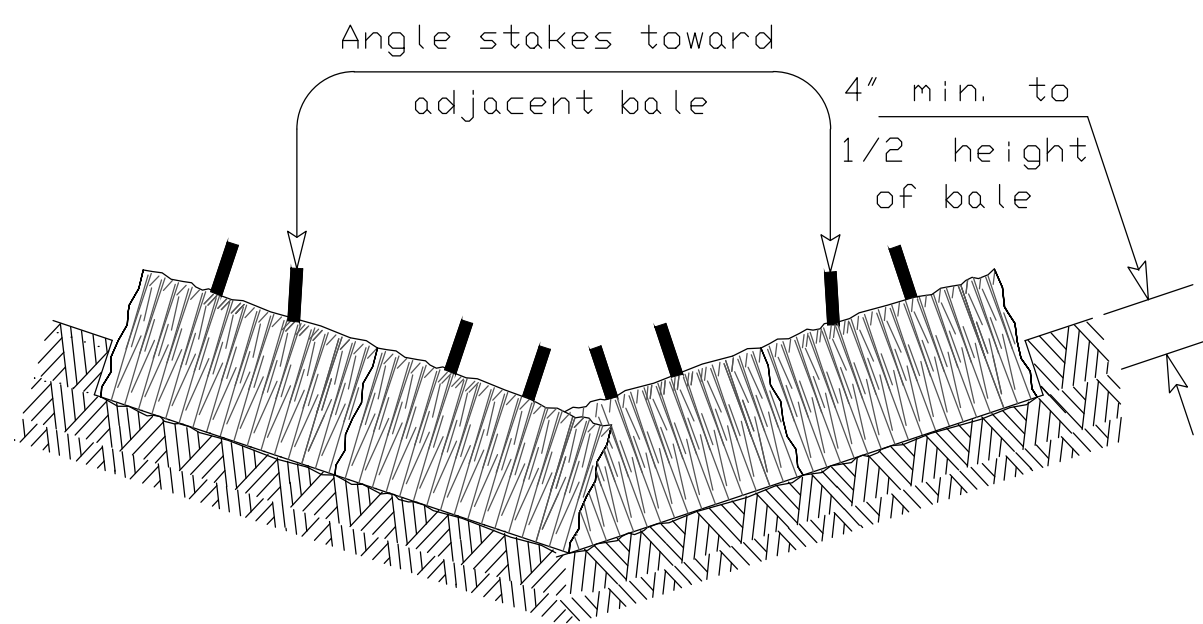
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11-4-02	DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT
9-07	REVISIONS	CONT	SECT	JOB
		DIST	COUNTY	SHEET NO.
				13 OF 15

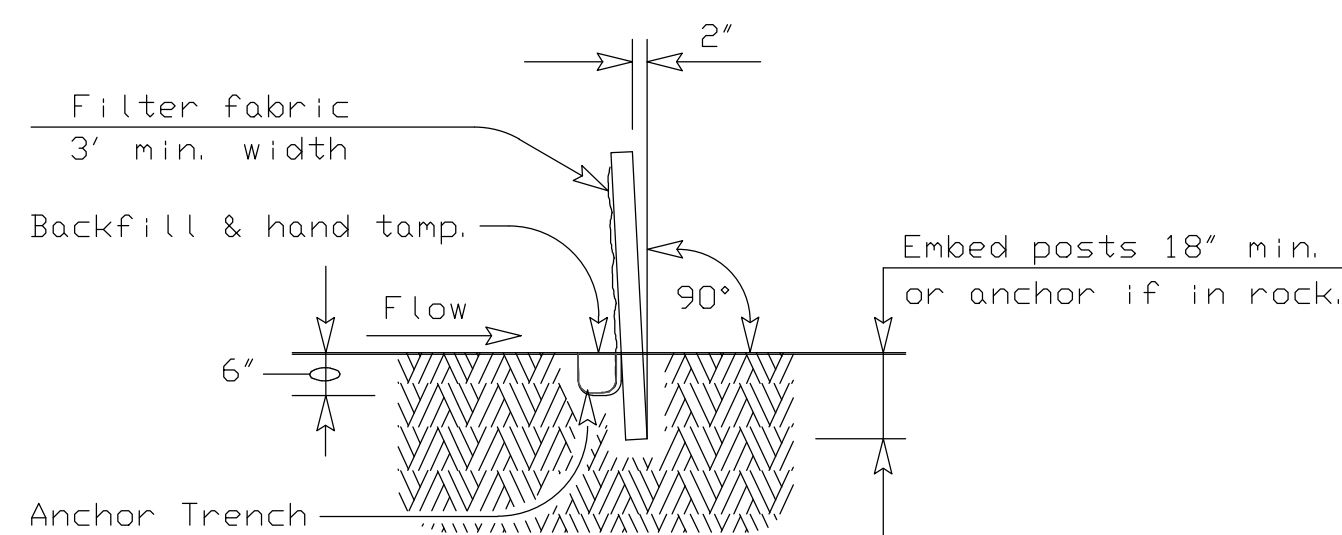
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PLAN VIEW



PROFILE VIEW



SECTION A-A

GENERAL NOTES

- The guidelines shown hereon are suggestions only and may be modified by the Engineer.

GENERAL NOTES

- Hay bales shall be a minimum of 30' in length and weigh a minimum of 50 Lbs.
- Hay bales shall be bound by either wire or nylon or polypropylene string. The bales shall be composed entirely of vegetative matter.
- Hay bales shall be embedded in the soil a minimum of 4' and where possible 1/2 the height of the bale.
- Hay bales shall be placed in a row with ends tightly abutting the adjacent bales. The bales shall be placed with bindings parallel to the ground.
- Hay bales shall be securely anchored in place with 3/8" Dia. rebar or 2" x 2" wood stakes, driven through the bales. The first stake shall be angled towards the previously laid bale to force the bales together.
- The guidelines shown hereon are suggestions only and may be modified by the Engineer.

BALED HAY USAGE GUIDELINES

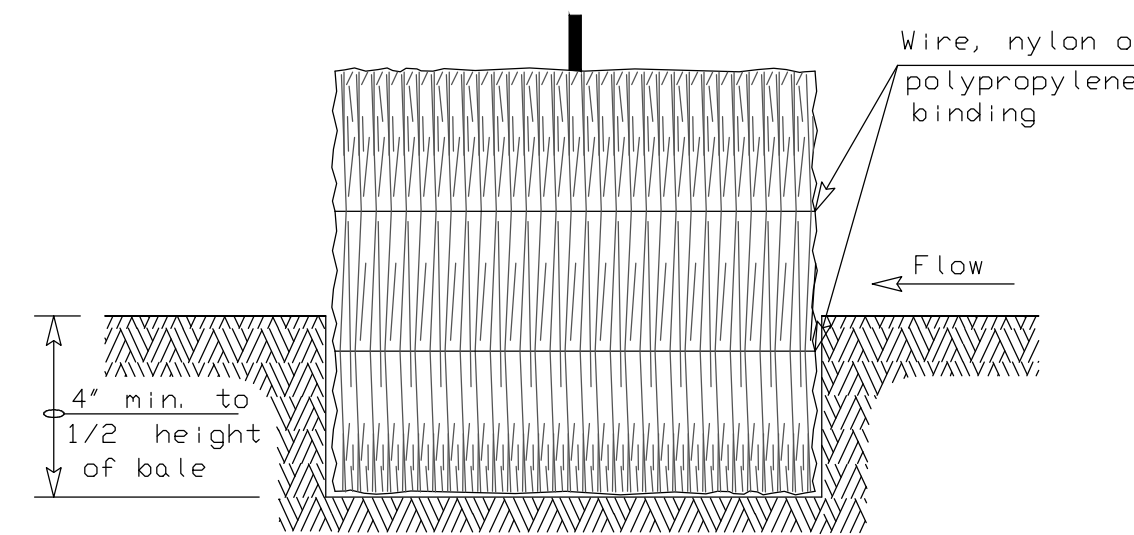
A Baled Hay installation may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A two year storm frequency may be used to calculate the flow rate to be filtered. The installation should be sized to filter a maximum flow thru rate of 5 GPM/FT² of cross sectional area. Baled hay may be used at the following locations:

- Where the runoff approaching the baled hay flows over disturbed soil for less than 100'. If the slope of the disturbed soil exceeds 10%, the length of slope upstream the baled hay should be less than 50'.
- Where the installation will be required for less than 3 months.
- Where the contributing drainage area is less than 1/2 acre.

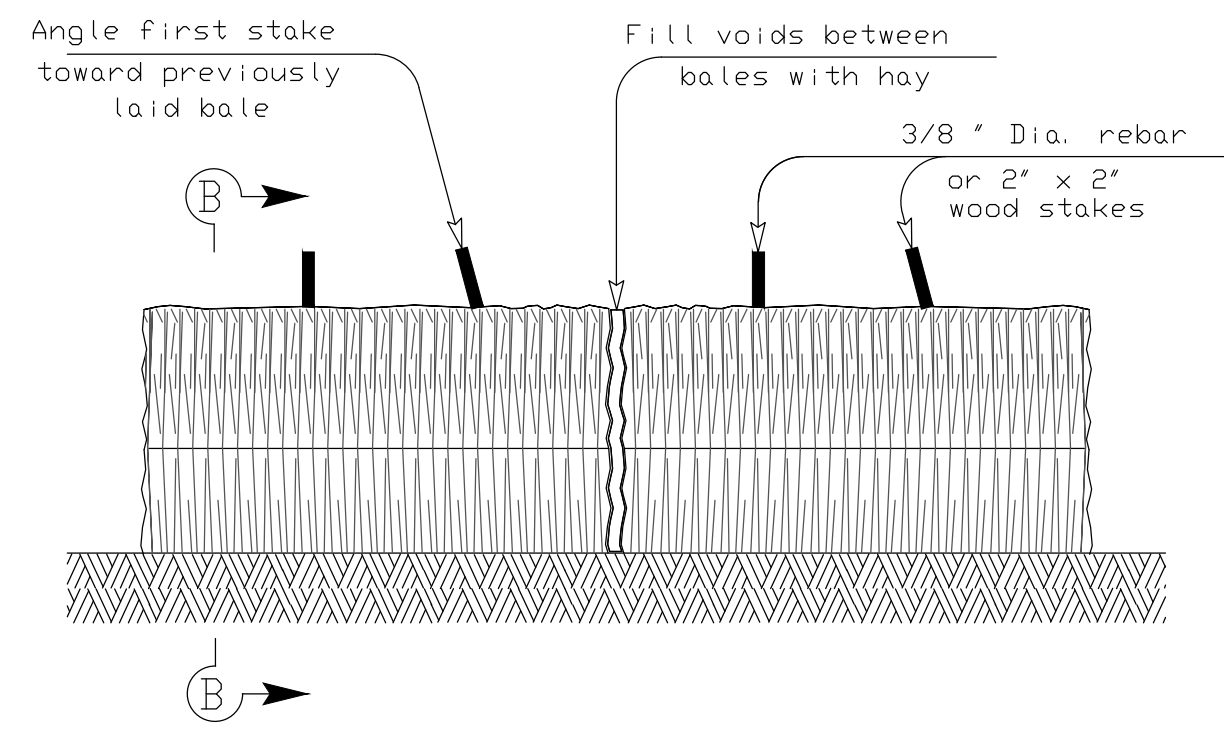
For Baled Hay installations in small ditches, the additional following considerations apply:

- The ditch sideslopes should be graded as flat as possible to maximize the drainage flowrate thru the hay.
- The ditch should be graded large enough to contain the overtopping drainage when sediment has filled to the top of the baled hay.

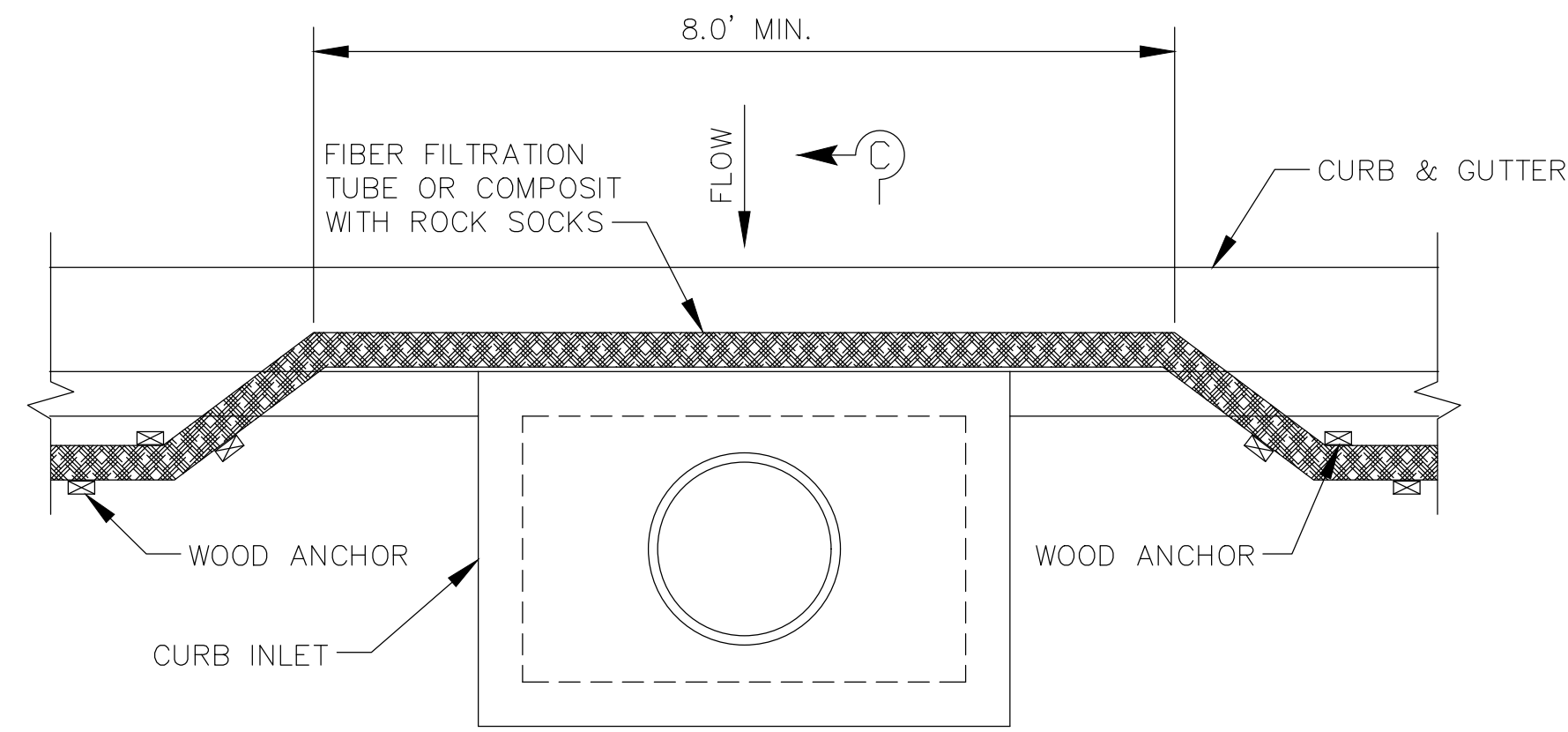
Bales should be replaced usually every 2 months or more often during wet weather when loss of structural integrity is accelerated.



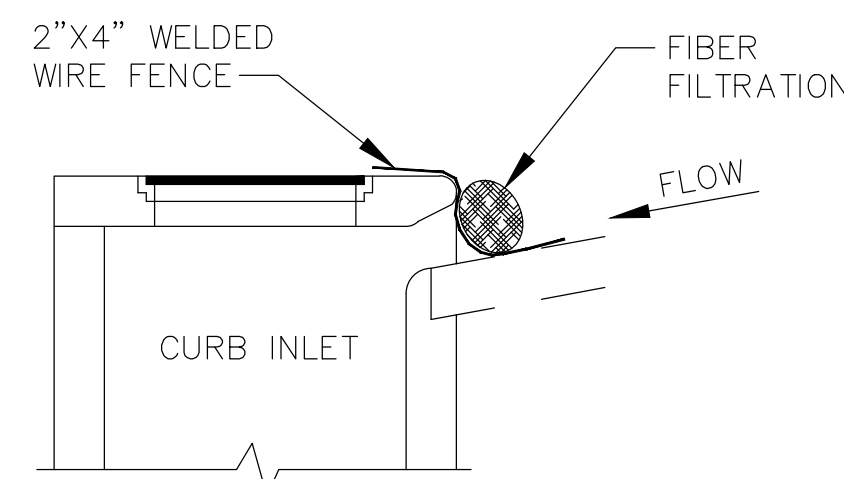
SECTION B-B



BALED HAY FOR EROSION CONTROL



PLAN VIEW
N.T.S.

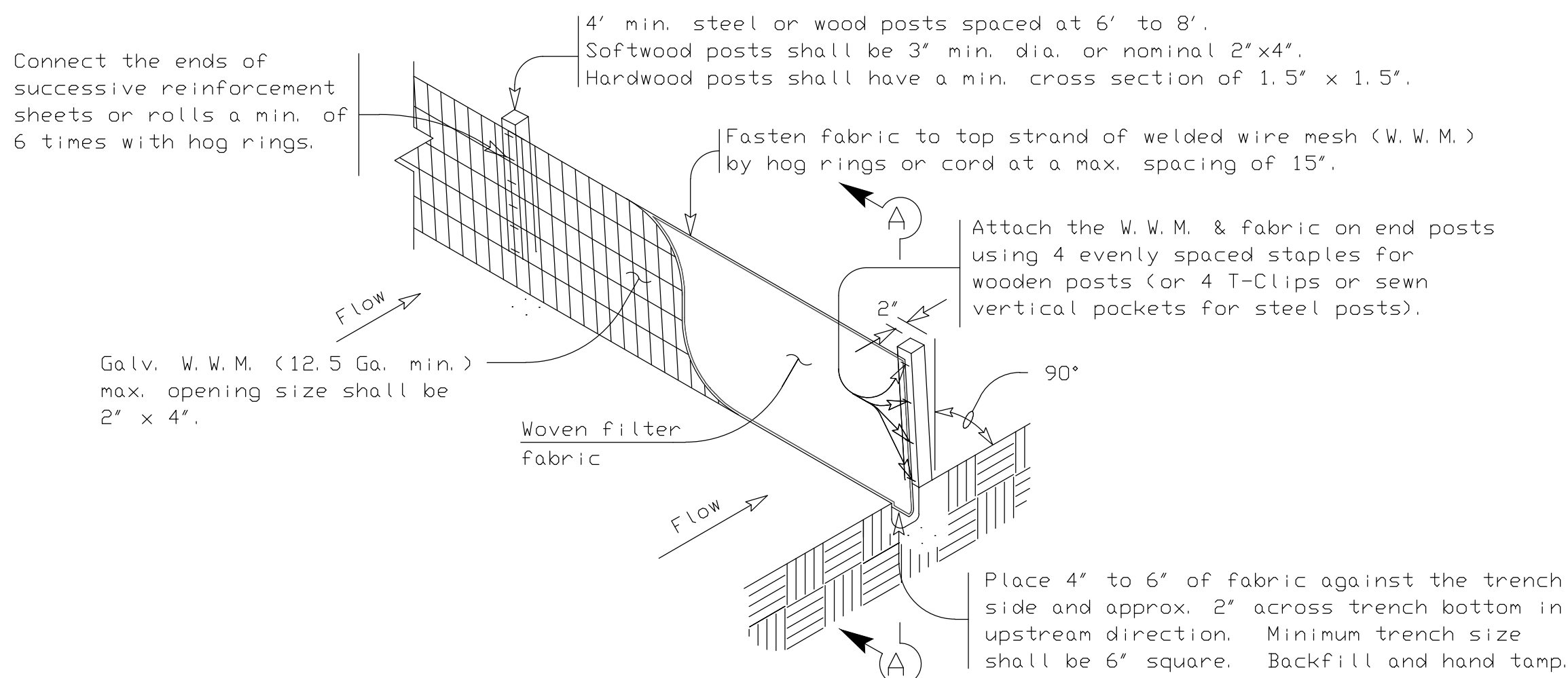


SECTION C-C
N.T.S.

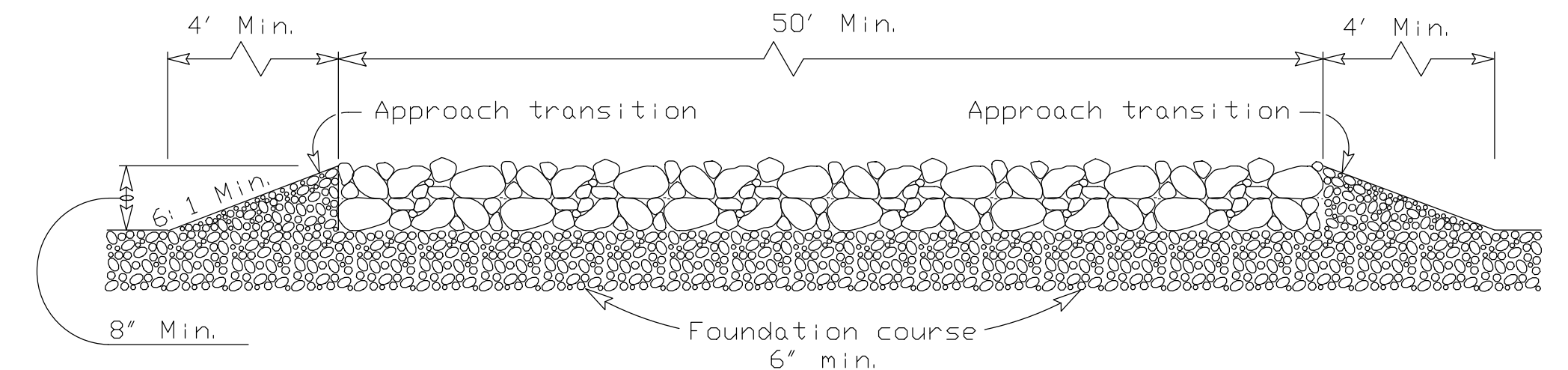
SEDIMENT CONTROL FENCE USAGE GUIDELINES

A sediment control fence may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A 2 year storm frequency may be used to calculate the flow rate to be filtered.

Sediment control fence should be sized to filter a max. flow through rate of 100 GPM/FT². Sediment control fence is not recommended to control erosion from a drainage area larger than 2 acres.



TEMPORARY SEDIMENT CONTROL FENCE

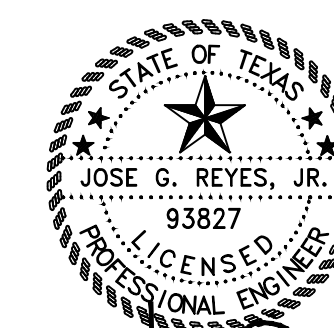


PROFILE

CONSTRUCTION ENTRANCE / EXIT (TYPE 1)

GENERAL NOTES

- The length of the type 1 construction exit shall be as indicated on the plans, but not less than 50'.
- The coarse aggregate should be open graded with a size of 4" to 8".
- The approach transitions should be no steeper than 6:1 and constructed as directed by the Engineer.
- The construction exit foundation course shall be flexible base, bituminous concrete, portland cement concrete or other material as approved by the Engineer.
- The construction exit shall be graded to allow drainage to a sediment trapping device.
- The guidelines shown hereon are suggestions only and may be modified by the Engineer.



Jose G. Reyes, Jr., P.E.
2/5/2019

REV.	DATE	DESCRIPTION	BY
HARLINGEN CONSOLIDATED INDEPENDENT SCHOOL DISTRICT HARLINGEN, TEXAS TEMPORARY EROSION, SEDIMENT & WATER POLLUTION CONTROL MEASURES FENCED & BALED HAY			
SIGLER, WINSTON, GREENWOOD AND ASSOCIATES, LLC SWG ENGINEERING, LLC TEXAS FIRM REGISTRATION NO. F-592 WESLACO, TEXAS			
DRAWN: MV, Jr. DATE: FEB., 2019		CHECKED: JGR, Jr. SHEET: 14 OF 15	
			PROJECT NO.: 18-104-14

GENERAL NOTES: DETECTABLE WARNING DETAILS

- CURB RAMPS MUST CONTAIN A DETECTABLE WARNING SURFACE THAT CONSISTS OF RAISED TRUNCATED DOMES COMPLYING WITH SECTION 4.29 OF THE TEXAS ACCESSIBILITY STANDARDS (TAS). THE SURFACE MUST CONTRAST VISUALLY WITH ADJOINING SURFACES, INCLUDING SIDE FLARES. FURNISH DARK BROWN OR DARK RED DETECTABLE WARNING SURFACE ADJACENT TO UNCOLORED CONCRETE, UNLESS SPECIFIED ELSEWHERE IN THE PLANS.
- DETECTABLE WARNING SURFACES MUST BE SLIP RESISTANT AND NOT ALLOW WATER TO ACCUMULATE.
- ALIGN TRUNCATED DOMES IN THE DIRECTION OF PEDESTRIAN TRAVEL WHEN ENTERING THE STREET.
- SHADED AREAS ON DETAILS INDICATE THE APPROXIMATE LOCATION FOR THE DETECTABLE WARNING SURFACE FOR EACH CURB RAMP TYPE.
- DETECTABLE WARNING SURFACES SHALL BE A MINIMUM OF 24" IN DEPTH IN THE DIRECTION OF PEDESTRIAN TRAVEL, AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR LANDING WHERE THE PEDESTRIAN ACCESS ROUTE ENTERS THE STREET.
- DETECTABLE WARNING SURFACES SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS A MINIMUM OF 6" AND A MAXIMUM OF 10" FROM THE EXTENSION OF THE FACE OF CURB. DETECTABLE WARNING SURFACES MAY BE CURVED ALONG THE CORNER RADIUS.
- TxDOT MAINTAINS A LIST OF QUALIFIED DETECTABLE WARNING MATERIALS. DETAILS ARE PROVIDED HEREIN FOR THE PLACEMENT OF LANDSCAPE PAVERS. FOR OTHER MATERIALS, REFER TO THE MANUFACTURER'S PRODUCT MANUAL FOR PROPER INSTALLATION.

**GENERAL NOTES:
DETECTABLE WARNING DETAILS, PEDESTRIAN FACILITIES**

- GENERAL NOTES
- ALL SLOPES ARE MAXIMUM ALLOWABLE. THE LEAST POSSIBLE SLOPE THAT WILL STILL DRAIN PROPERLY SHOULD BE USED. ADJUST CURB RAMP LENGTH OR GRADE OF APPROACH SIDEWALKS AS DIRECTED.
 - THE MINIMUM SIDEWALK WIDTH IS 5'. WHERE THE SIDEWALK IS ADJACENT TO THE BACK OF CURB, A 6' SIDEWALK WIDTH IS ENCOURAGED. WHERE A 5' SIDEWALK CAN NOT BE PROVIDED DUE TO SITE CONSTRAINTS, A MINIMUM 3' SIDEWALK WITH 5'X 5' PASSING AREAS AT INTERVALS NOT TO EXCEED 200' IS REQUIRED.
 - LANDINGS SHALL BE 5'X 5' MINIMUM WITH A MAXIMUM 2% SLOPE IN ANY DIRECTION.
 - MANEUVERING SPACE AT THE BOTTOM OF CURB RAMPS SHALL BE A MINIMUM OF 4' X 4' WHOLLY CONTAINED WITHIN THE CROSSWALK AND WHOLLY OUTSIDE THE PARALLEL VEHICULAR TRAVEL PATH.
 - MAXIMUM ALLOWABLE CROSS SLOPE ON SIDEWALK AND CURB RAMP SURFACES IS 2%.
 - CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP, EITHER BECAUSE THE ADJACENT SURFACE IS PLANTING OR OTHER NON-WALKING SURFACE OR BECAUSE THE SIDE APPROACH IS SUBSTANTIALLY OBSTRUCTED. OTHERWISE, PROVIDE FLARED SIDES.
 - ADDITIONAL INFORMATION ON CURB RAMP LOCATION, DESIGN, LIGHT REFLECTIVE VALUE AND TEXTURE MAY BE FOUND IN THE CURRENT EDITION OF THE TEXAS ACCESSIBILITY STANDARDS (TAS) AND 16 TAC 68.102.
 - TO SERVE AS A PEDESTRIAN REFUGE AREA, THE MEDIAN SHOULD BE A MINIMUM OF 5' WIDE. MEDIANS SHOULD BE DESIGNED TO PROVIDE ACCESSIBLE PASSAGE OVER OR THROUGH THEM.
 - SMALL CHANNELIZATION ISLANDS, WHICH DO NOT PROVIDE A MINIMUM 5'X 5' LANDING AT THE TOP OF CURB RAMPS, SHALL BE CUT THROUGH LEVEL WITH THE SURFACE OF THE STREET.
 - CROSSWALK DIMENSIONS, CROSSWALK MARKINGS AND STOP BAR LOCATIONS SHALL BE AS SHOWN IN THE PLANS. AT INTERSECTIONS WHERE CROSSWALK MARKINGS ARE NOT REQUIRED, CURB RAMPS SHALL BE ALIGNED WITH THEORETICAL CROSSWALKS, OR AS DIRECTED BY THE ENGINEER.
 - EXISTING FEATURES THAT COMPLY WITH TAS MAY REMAIN IN PLACE UNLESS OTHERWISE SHOWN ON THE PLANS.
 - HANDRAILS ARE NOT REQUIRED ON CURB RAMPS. PROVIDE CURB RAMPS WHEREVER AN ACCESSIBLE ROUTE CROSSES (PENETRATES) A CURB.
 - CURB RAMPS AND LANDINGS SHALL BE CONSTRUCTED AND PAID FOR IN ACCORDANCE WITH ITEM 5.31 "SIDEWALKS".
 - SEPARATE CURB RAMP AND LANDINGS FROM ADJACENT SIDEWALK AND ANY OTHER ELEMENTS WITH PREMOLD OR BOARD JOINT OF 3/4" UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 - PROVIDE A SMOOTH TRANSITION WHERE THE CURB RAMPS CONNECT TO THE STREET.
 - CURBS SHOWN ON SHEET 1 WITHIN THE LIMITS OF PAYMENT ARE CONSIDERED PART OF THE CURB RAMP FOR PAYMENT, WHETHER IT IS CONCRETE CURB, GUTTER, OR COMBINED CURB AND GUTTER.
 - FLARE SLOPE SHALL NOT EXCEED 10% MEASURED ALONG CURB LINE.

CONCRETE NOTES:

FIBROUS REINFORCING OF CONCRETE (CURB AND GUTTER)

GENERAL
THIS SECTION COVERS FIBROUS CONCRETE REINFORCEMENT, INCLUDING ALL MATERIALS, LABOR, EQUIPMENT, AND SERVICE NECESSARY TO COMPLETE THE WORK. ALL MATERIALS PROVIDED SHALL CONFORM TO THE APPLICABLE LOCAL BUILDING CODES AND ASTM STANDARDS.

AMOUNT OF FIBROUS REINFORCING REQUIRED
APPROVED FIBROUS CONCRETE REINFORCEMENT MATERIAL AT THE RATE OF 1.5 LBS. PER CUBIC YARD OF CONCRETE SHALL BE ADDED TO BATCH OF CONCRETE DELIVERED TO THE PROJECT SITE.

FIBROUS CONCRETE REINFORCEMENT
ONE HUNDRED (100%) PERCENT VIRGIN POLYPROPYLENE FIBRILLATED FIBERS SPECIFICALLY MANUFACTURED FOR USE AS CONCRETE REINFORCEMENT, CONTAINING NO REPROCESSED OLEFIN MATERIALS. FIBROUS CONCRETE REINFORCEMENT SHALL BE AS MANUFACTURED BY THE FIBERMESH COMPANY, CHATTANOOGA, TENNESSEE, OR APPROVED EQUAL.

PHYSICAL CHARACTERISTICS --

- SPECIFIC GRAVITY: 0.91
- TENSILE STRENGTH: 70 TO 110 KSI
- FIBER LENGTHS: 1/2", 3/4", 1-1/2", 2" PER MANUFACTURER.

FIBROUS CONCRETE REINFORCEMENT MATERIAL PROVIDED BY THIS SECTION SHALL PRODUCE CONCRETE CONFORMING TO THE REQUIREMENT FOR EACH TYPE AND CLASS OF CONCRETE REQUIRED AS INDICATED ON THE DRAWINGS AND SPECIFIED ELSEWHERE IN THESE SPECIFICATIONS UNDER CONCRETE. IN OTHER WORDS, FIBROUS CONCRETE REINFORCEMENT MATERIALS WILL IMPROVE CERTAIN QUALITIES OF THE CONCRETE TO WHICH IT IS BEING ADDED, AND WILL NOT ALTER ANY OF THE OTHER QUALITIES.

EXECUTION
FIBROUS CONCRETE REINFORCEMENT WILL BE ADDED TO THE CONCRETE AT THE TIME THE CONCRETE IS BATCHED, AND IN THE AMOUNT SPECIFIED.

THE BATCHED CONCRETE SHALL THEN BE MIXED IN STRICT ACCORD WITH THE FIBROUS CONCRETE REINFORCEMENT MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS FOR UNIFORM AND COMPLETE DISPERSION.

PLACE AND FINISH THE CONCRETE AS SPECIFIED IN THE CONCRETE SECTION OF THESE SPECIFICATIONS.

SITE PREPARATION

SITE PREPARATION SHOULD CONSIST OF THE FOLLOWING:

- CLEARING AND THE STRIPPING OF VEGETATION, ROOTS AND REMOVAL OF ANY MATERIALS CONTAINING SIGNIFICANT ORGANIC MATERIAL FROM THE BUILDING AREA AND AREAS TO BE PAVED SHOULD BE PERFORMED. SOILS WITH ORGANICS MORE THAN TEN PERCENT (10%) BY VOLUME ARE CONSIDERED TO BE ORGANIC SOILS AND CAN HAVE DELETERIOUS EFFECT.
- THE EXPOSED SUBGRADE SURFACE SHOULD THEN BE PROOF ROLLED WITH A LOADED HEAVY EARTHWORK PIECE OF MACHINERY SUCH AS A MOTORIZED ARTICULATED SCRAPER, MAINTAINER OR DUMP TRUCK TO DETECT SOFT OR LOOSE ZONES, FOLLOWED BY PROPER SOIL REPLACEMENT, IF NECESSARY.
- THE SUBGRADE SHOULD THEN BE SCARIFIED TO AT LEAST NINE (9) INCHES; MOISTURE CONDITIONED BETWEEN 1% DRY TO 3% WET OF OPTIMUM MOISTURE AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY DETERMINED BY ASTM D-698 (STANDARD PROCTOR).
- STRUCTURAL FILL MAY CONSIST OF INORGANIC SILTY CLAYS OR SANDY LEAN CLAYS WITH A LIQUID LIMIT OF LESS THAN 35 AND A PLASTICITY INDEX BETWEEN 10 AND 15. THE FILL REQUIREMENTS AND COMPACTION SHOULD BE IN ACCORDANCE WITH RECOMMENDATIONS FOUND IN THE APPENDIX FOR SELECT FILL. BUILDING PADS MAY NEED SELECT FILL CONSISTING OF COMBINATION OF CUT AND FILL AFTER INITIAL SITE PREPARATION. THE SITE GRADE MAY BE RAISED ABOVE THE EXISTING GRADE FOR DRAINAGE PURPOSES.

STEEL NOTES:

- ALL REINFORCING STEEL TO BE AMERICAN MADE
- CHAMFER ALL EXPOSED CONC. CORNERS 1"
- REINFORCING STEEL CLEARANCES
FACES EXPOSED TO WATER = 2-1/2"
FACES EXPOSED TO EARTH = 3"
FACES EXPOSED TO AIR = 2"
- LAP OR ANCHOR ALL STEEL A MINIMUM OF 30 DIA'S. ALL HORIZ. STEEL CONTINUOUS AROUND CORNERS.
- ALL REINFORCING STEEL TO BE 60KSI
- ALL CONCRETE STRUCTURES TO HAVE A COMPRESSIVE STRENGTH OF 3000 P.S.I. AT 28 DAYS.

MANHOLES AND INLETS

TEXAS HIGHWAY DEPARTMENT SPECIFICATIONS ITEM 465 MANHOLES AND INLETS? ITEM 471. FRAMES, GRATES, RINGS AND COVERS?AND ITEM 479. ADJUSTING MANHOLES AND INLETS?ARE THE GOVERNING SPECIFICATIONS. MANHOLES AND INLETS MAY BE EITHER PREFABRICATED OR CONSTRUCTED ON THE JOB.

INLETS OF THE TYPE A VARIETY AS SHOWN ON THE PLANS SHALL BE MEASURED AS EACH INLET COMPLETE IN PLACE. MANHOLES SHALL BE MEASURED AS EACH MANHOLE COMPLETE IN PLACE. ADJUSTING EXISTING MANHOLES AND INLETS AS DESCRIBED ON THE PLANS SHALL BE MEASURED AS EACH MANHOLE OR INLET ADJUSTED COMPLETE IN PLACE.

THE PAY ITEMS SHALL BE THE UNIT PRICE BID FOR EACH INLET (TYPE A), MANHOLES, OR ADJUSTING MANHOLES AND INLETS AS CALLED FOR ON THE PLANS, WHICH PRICES SHALL BE FULL COMPENSATION FOR FURNISHING ALL REQUIRED MATERIALS, INCLUDING BRICK, CONCRETE, REINFORCING STEEL, FRAMES, GRATES, RINGS AND COVERS, EXCAVATION AND BACKFILL, TOOLS, LABOR, EQUIPMENT AND INCIDENTALS REQUIRED TO COMPLETE THE WORK.

TRENCH PROTECTION AND SHORING

DESCRIPTION
THIS ITEM SHALL GOVERN FOR FURNISHING AND CONSTRUCTING TEMPORARY SHORING TO HOLD THE SURROUNDING EARTH, WATER OR BOTH OUT OF THE WORK AREA AND TO THE LINES AND GRADES SHOWN ON THE PLANS AND IN ACCORDANCE WITH THIS ITEM.

DESIGN
UNLESS OTHERWISE SHOWN ON THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY OF THE TEMPORARY SPECIAL SHORING DESIGN. THE CONTRACTOR SHALL SUBMIT, TO THE ENGINEER, DETAILS AND DESIGN CALCULATIONS BEARING THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER FOR REVIEW AND APPROVAL.

MATERIALS
THE CONTRACTOR SHALL FURNISH SHORING THAT MEETS OR EXCEEDS THE DESIGN REQUIREMENTS. MATERIALS MAY BE NEW OR USED. MATERIALS SHALL NOT PRESENT A HAZARD TO THE PUBLIC, SHALL BE STRUCTURALLY ADEQUATE AND SHALL FULFILL THE INTENDED SHORING PURPOSE.

CONSTRUCTION METHODS
THE CONSTRUCTION METHODS USED FOR TEMPORARY SHORING SHALL BE IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS AND THE DESIGN REQUIREMENTS.

MEASUREMENT
THIS ITEM WILL BE MEASURED BY THE SQUARE FOOT OF SURFACE AREA OF A VERTICAL PLANE BETWEEN THE TOP OF THE SHORING AND THE MINIMUM PROTECTION GRADE LINE SHOWN ON THE PLANS.

THIS IS AN ESTIMATED PLAN QUANTITY MEASUREMENT ITEM, AND THE QUANTITY TO BE PAID FOR WILL BE THAT QUANTITY SHOWN IN THE PROPOSAL.

PAYMENT
THE WORK PERFORMED AND MATERIALS FURNISHED IN ACCORDANCE WITH THIS ITEM AND MEASURED AS PROVIDED UNDER MEASUREMENT WILL BE PAID FOR AT THE UNIT PRICE BID FOR TEMPORARY SPECIAL SHORING. THIS PRICE SHALL BE FULL COMPENSATION FOR FURNISHING AND PLACING ALL TEMPORARY SHORING MATERIALS; FOR DESIGN OF THE SHORING; FOR ALL NECESSARY EXCAVATION; FOR THE REMOVAL OF THE SHORING OR PORTIONS THEREOF; AND FOR ALL LABOR, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.

NO PAYMENT WILL BE MADE FOR SPECIAL SHORING MADE NECESSARY DUE TO THE SELECTION OF AN OPTIONAL DESIGN OR SEQUENCE OF WORK THAT CREATES THE NEED FOR SHORING.

TRENCHING, BEDDING AND BACKFILL

THE WIDTH OF THE TRENCH SHALL BE MINIMIZED, BUT SHALL BE AMPLE TO ALLOW THE PIPE TO BE LAID AND JOINTED PROPERLY AND TO ALLOW THE BACKFILL TO BE PLACED AND COMPACTED AS NEEDED. THE TRENCH SIDES SHALL BE KEPT AS NEARLY VERTICAL AS POSSIBLE. AS USED HEREIN, A TRENCH SHALL BE DEFINED AS THAT OPEN CUT PORTION OF THE EXCAVATION UP TO ONE FOOT ABOVE THE PIPE. THE WIDTH OF THE TRENCH SHALL BE SUFFICIENT BUT NO GREATER THAN NECESSARY, TO ENSURE WORKING ROOM TO PROPERLY AND SAFELY PLACE AND COMPACT HAUNCHING MATERIALS. THE SPACE MUST BE WIDER THAN THE COMPACTION EQUIPMENT USED IN THE PIPE ZONE. A MINIMUM CLEARANCE OF 4 INCHES BELOW AND ON EACH SIDE OF ALL PIPES TO THE TRENCH WALLS AND FLOOR SHALL BE PROVIDED.

BEDDING CLASSES A, B, OR C, AS DESCRIBED IN ASTM C 12 (ANSI A 106.2), WATER ENVIRONMENT FEDERATION (WEF) MANUAL OF PRACTICE (MOP) NO. 9 OR AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) MOP 37 SHALL BE USED FOR ALL RIGID PIPES, PROVIDED THAT THE PROPER STRENGTH PIPE IS USED WITH THE SPECIFIED BEDDING TO SUPPORT THE ANTICIPATED LOAD(S). EMBEDMENT CLASSES IA, IB, II OR III, AS DESCRIBED IN ASTM D-2321 (ANSI K65.171) SHALL BE USED FOR ALL FLEXIBLE PIPES, PROVIDED THE PROPER STRENGTH PIPE IS USED WITH THE SPECIFIED BEDDING TO SUPPORT THE ANTICIPATED LOAD, EXCEPT THAT ASTM D-2680 MAY BE USED IF THE PIPE STIFFNESS IS 200 PSI OR GREATER. SECONDARY BACKFILL SHALL BE OF SUITABLE MATERIAL REMOVED FROM EXCAVATION EXCEPT WHERE OTHER MATERIAL IS SPECIFIED. DEBRIS, LARGE CLOUDS OR STONES GREATER THAN SIX INCHES IN DIAMETER, ORGANIC MATTER, OR OTHER UNSTABLE MATERIALS SHALL NOT BE USED FOR BACKFILL. BACKFILL SHALL BE PLACED IN SUCH A MANNER AS NOT TO DISTURB THE ALIGNMENT OF THE PIPE.

FIBERGLASS MANHOLE SPECIFICATION

FIBERGLASS REINFORCED POLYESTER MANHOLE SHALL BE MANUFACTURED FROM COMMERCIAL GRADE POLYESTER RESIN OR OTHER SUITABLE POLYESTER OR VINYL ESTER RESINS WITH FIBERGLASS REINFORCEMENTS. MANHOLE SHALL BE A ONE PIECE UNIT, MANUFACTURED TO MEET OR EXCEED ALL SPECIFICATIONS OF A.S.T.M. D-3753 LATEST EDITION, WITH A MINIMUM 1/2" WALL THICKNESS.

FLEXIBLE BASE

TEXAS HIGHWAY DEPARTMENT SPECIFICATIONS ITEM 247 "FLEXIBLE BASE TY A GRADE 1 (CRUSHED LIMESTONE)", IS THE GOVERNING SPECIFICATION. THIS ITEM INCLUDES PREPARATION OF SUBGRADE AFTER COMPLETION OF GRADING. ALL SUBGRADE MATERIAL SHALL BE COMPACTED TO A DENSITY NOT LESS THAN 90% OF THE DENSITY AS DETERMINED IN ACCORDANCE WITH THE STANDARD PROCTOR DENSITY TEST.

EXISTING BASE AND PAVEMENT DESIGNATED TO BE REMOVED AND DISCARDED.

NEW FLEXIBLE BASE SHALL BE COMPACTED TO A MINIMUM DENSITY OF 95% OF THE DENSITY AS DETERMINED IN ACCORDANCE WITH THE STANDARD PROCTOR DENSITY TEST.

FLEXIBLE BASE (OF THE COMPACTED THICKNESS SPECIFIED) WILL BE MEASURED BY THE SQUARE YARD OF FINISHED SURFACE.

THE PAY ITEM SHALL BE THE UNIT PRICE BID PER SQUARE YARD FOR "FLEXIBLE BASE (OF THE COMPACTED THICKNESS SPECIFIED)", WHICH PRICE SHALL BE FULL COMPENSATION FOR ALL MATERIALS, HAULING, COMPACTION, LABOR, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS DESCRIBED ABOVE.

ASPHALT PAVEMENT

TEXAS HIGHWAY DEPARTMENT SPECIFICATIONS ITEM 340 "HOT MIX ASPHALTIC CONCRETE PAVEMENT" IS THE GOVERNING SPECIFICATION.

AFTER THE NEW CALICHE BASE, OR REWORKED BASE, MATERIAL HAS BEEN PROPERLY PREPARED AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY, AS DETERMINED BY AN INDEPENDENT LABORATORY, AND PROPERLY CURED, IT WILL BE PRIMED WITH 0.20 GALLONS PER SQUARE YARD OF MC-30.

TACK COAT SHALL BE EITHER RC-250, AND APPROVED EMULSION, OR AC-20 CUT BACK WITH KEROSENE APPLIED AT THE RATE OF 0.05 GALLON PER SQUARE YARD.

ASPHALT PAVEMENT SHALL BE "HOT MIX ASPHALTIC CONCRETE PAVEMENT," (CLASS A), TYPE "D" AT THE RATE AS SHOWN ON THE PLANS.

THE STABILITY FOR THE ASPHALT PAVEMENT DESCRIBED ABOVE SHALL NOT BE LESS THAN 35.

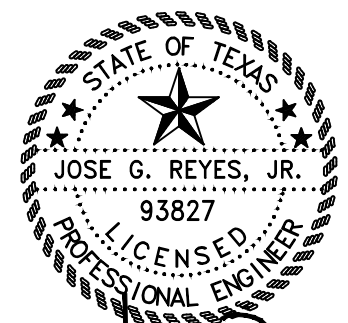
THE ASPHALT PAVEMENT DESCRIBED ABOVE WILL BE MEASURED BY THE SQUARE YARD, COMPLETE IN PLACE.

ASPHALT PAVEMENT WILL BE PAID FOR UNDER THE BID ITEM FOR CUT AND REPLACING EXISTING PAVEMENT.

SPRINKLING, ROLLING, ASPHALTS, OILS, AND EMULSIONS

TEXAS HIGHWAY DEPARTMENT SPECIFICATIONS ITEMS 204 SPRINKLING, 210 ROLLING (FLAT WHEEL), 2123 ROLLING (PNEUMATIC TIRE) AND 300 ASPHALTS, OILS AND EMULSIONS ARE THE GOVERNING SPECIFICATIONS.

THE WATER FOR SPRINKLING SHALL BE SECURED BY THE CONTRACTOR FROM THE IRRIGATION COMPANY, OR OTHERS, AND ALL SOURCES OF WATER SUPPLY WILL BE PAID FOR UNDER THE OTHER VARIOUS BID ITEMS TO WHICH IT IS APPLICABLE.



Jose G. Reyes, Jr., P.E.
2/5/2019

ADDENDUM #1			
REV.	DATE	DESCRIPTION	BY
HARLINGEN CONSOLIDATED INDEPENDENT SCHOOL DISTRICT HARLINGEN, TEXAS			
GENERAL NOTES AND SPECIFICATIONS			
<i>SIGLER, WINSTON, GREENWOOD AND ASSOCIATES, LLC</i> SWG ENGINEERING, LLC TEXAS FIRM REGISTRATION NO. F-592 WESLACO, TEXAS		 SINCE 1945	
DRAWN: MV, Jr.	CHECKED: JGR, Jr.	PROJECT NO.	18-104-15
DATE: FEB., 2019	SHEET: 15 OF 15		