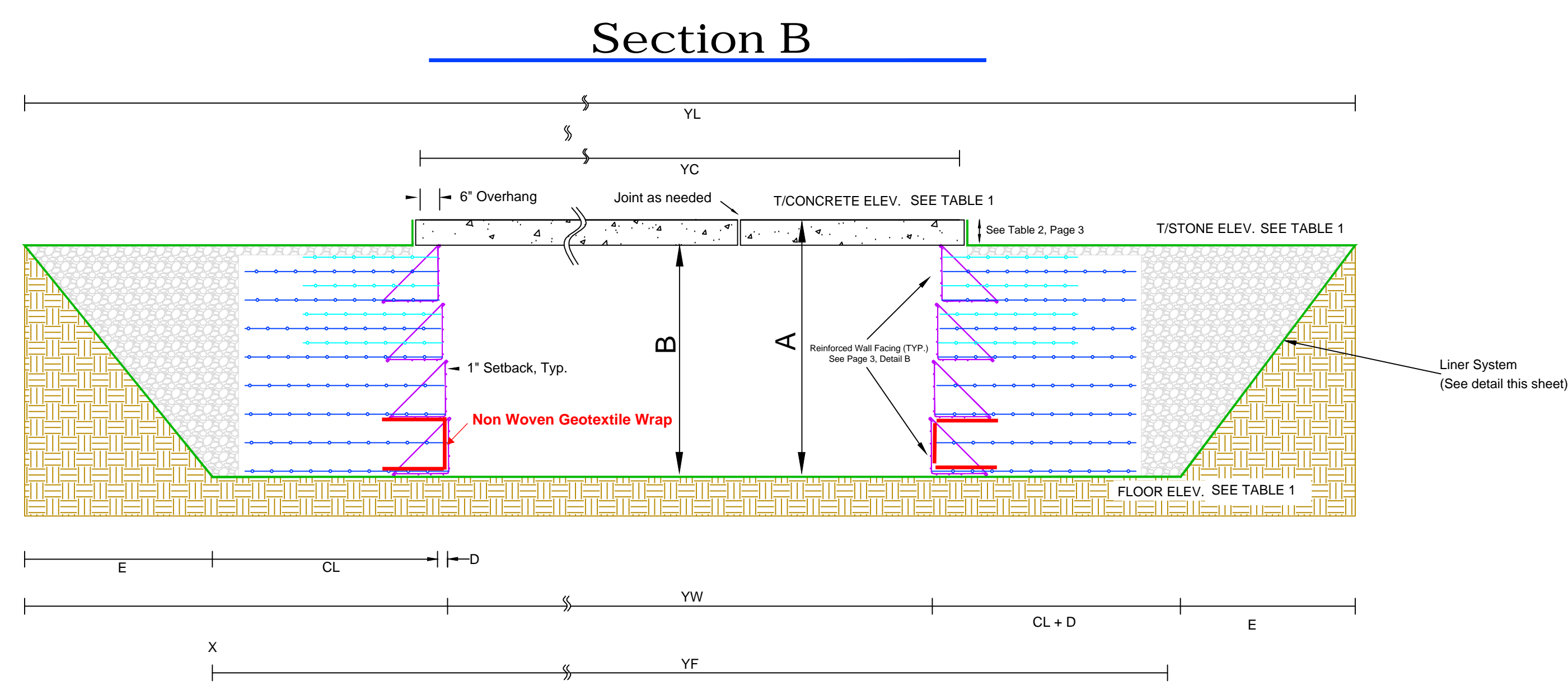


- LEGEND
- Open Chamber
 - Stone Backfill
 - Limits of Excavation
 - Precast Concrete Roof Deck
 - Reinforced Walls



NOTE: AT THE CHAMBER END CAPS (14' WIDTHS), THE WALL SHALL BE CONSTRUCTED AS SHOWN IN THE BOTTOM 3 FT. OF OF DETAIL B, WITH 1 1/2" STONE, 9 INCH GEOGRID SPACING AND NO GEOTEXTILE WRAP.

Table 1 GeoStorage® System Dimensions		
	UG 3c	UG 2e
A: Invert-Surface Height	9.08	8.33
B: Wall Height	8.25	7.50
CW: Wall Width along length (Section A)	38.13	21.76
CL: Wall Width along width (Section B)	5.77	44.79
D: Batter Width	0.33	0.33
E: Width of Back Cut (at wall height)	8.25	7.50
F: Top of Wall- Top of Perimeter Stone	-	-
XW: Width of Chamber at Toe	13.33	13.33
XF: Width of Floor Surface	90.25	57.50
XL: Width of Top Surface	106.75	72.50
YW: Length of Chamber at Toe	212.83	37.33
YF: Length of Floor Surface	225.03	127.56
YL: Length of Top Surface	241.53	142.56
XC: Width of Concrete Roof	20.50	20.50
YC: Length of Concrete Roof (each)	214.50	39.00
Geogrid Embedment	5.80	5.25
Total Storage Capacity (SF)	90,326	28,710
Floor Elevation	379.00	374.25
Top of Stone Elevation	387.25	381.75
Top of Concrete Elevation	388.08	382.58

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GeoStorage
UNDERGROUND STORMWATER DETENTION SYSTEM

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REV.	DATE	DESCRIPTION	BY
1			
2			
3			

GeoStorage Engineering LLC
www.geostoragecorp.com
(732) 741-5015 Phone (732) 741-5016 Fax

Unified2 Development
Sutton, MA

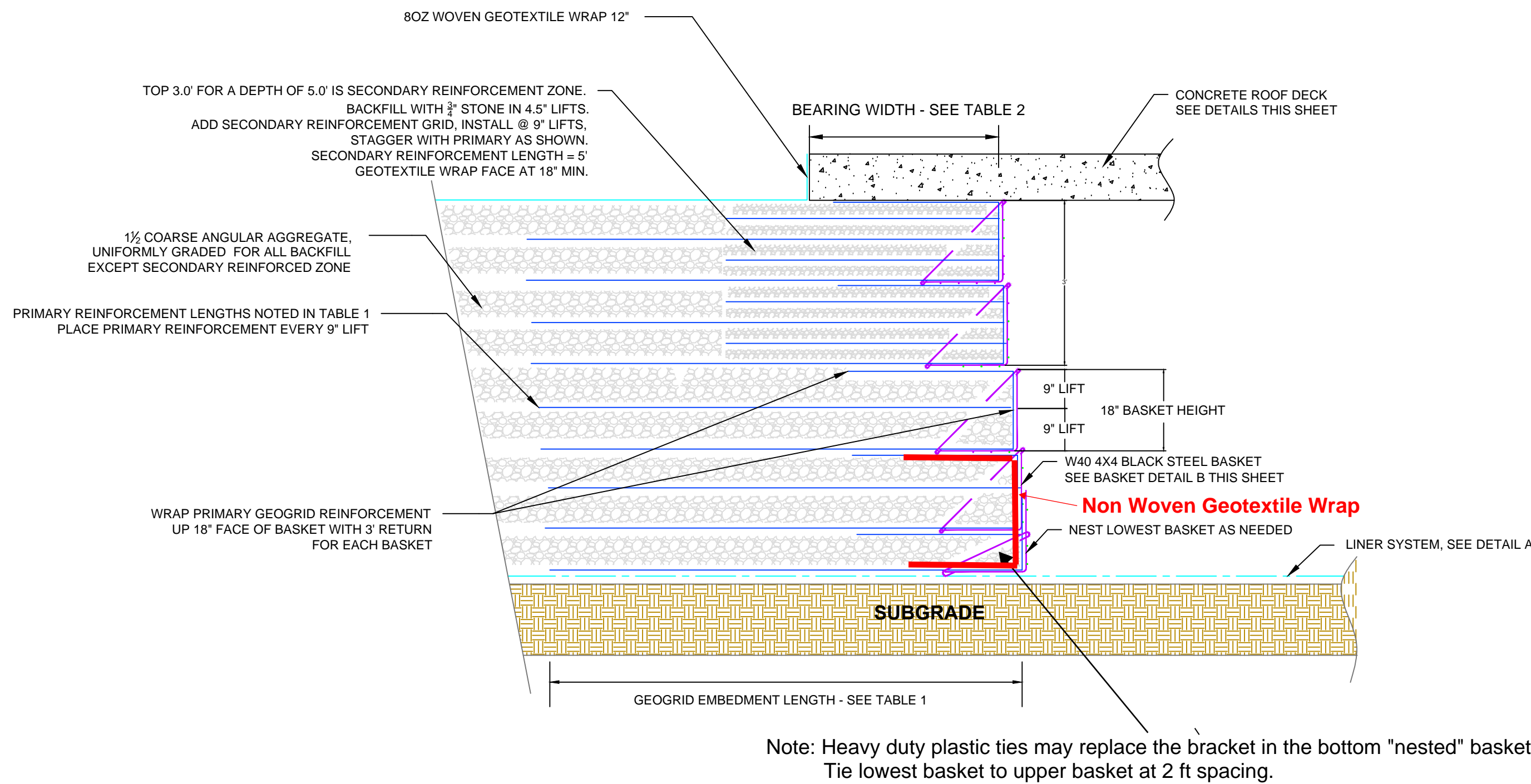
GeoStorage® Underground Stormwater Detention System
SECTIONS & DETAILS
GeoStorage® Single Chamber Design System

SCALE	DATE	REVISION NO.
NTS	12-2-22	-
DWG. BY	PROJECT MANAGER	SHT.
TS	TS	2 of 4

DETAIL B

TYPICAL LOAD BEARING WALL CONSTRUCTION

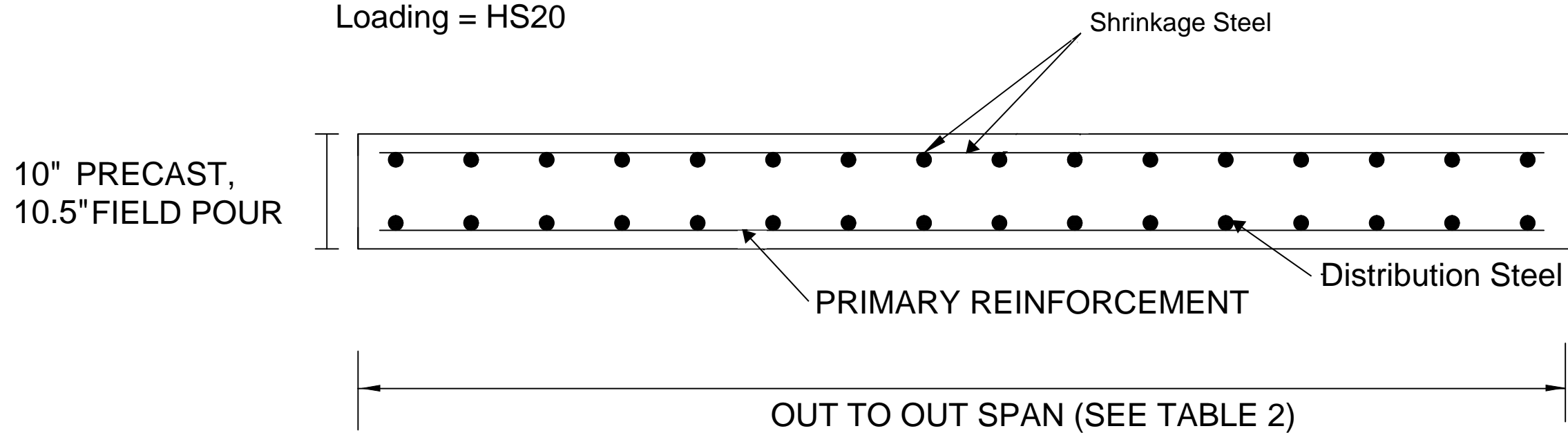
NOT TO SCALE



CONCRETE ROOF DECK DETAILS

NOT TO SCALE

Design: AASHTO Bridge Section 3.24
Span: AASHTO 3.24.1.1
Loading = HS20



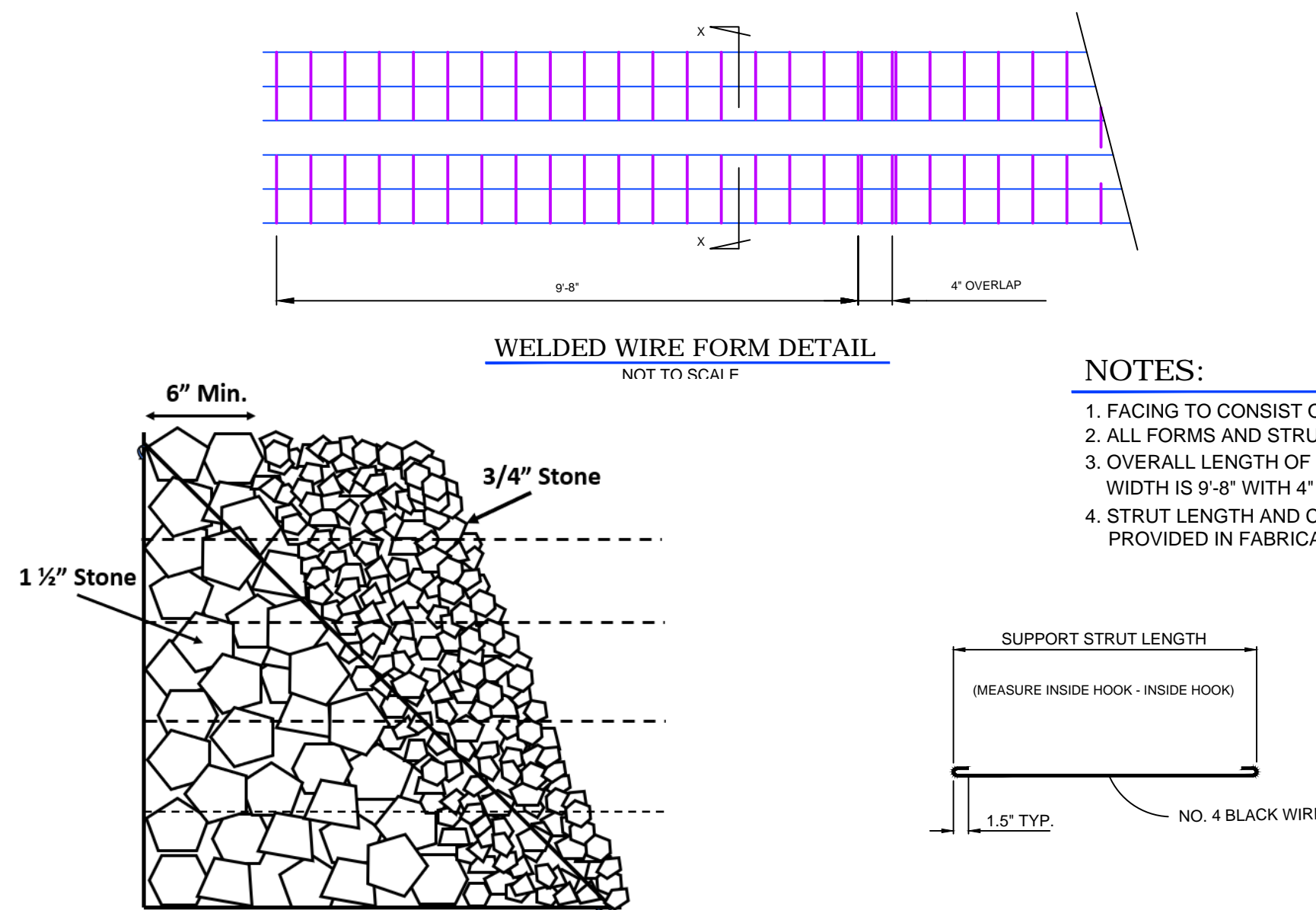
NOTE: 1-1/2" CLEARANCE ON ALL REBAR TOP AND BOTTOM IF MANUFACTURED UNDER PLANT CONTROL CONDITIONS (PRECAST). 2" CLEARANCE ON LOWER REBAR LAYER IF CAST IN THE FIELD. 3" CLEARANCE ON BOTH SIDES. LIFTING ANCHORS - A L PATTERSON CORE LIFT LOOPS OR EQUAL, TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

Maximum Overburden (ft)	Slab Thickness (in)	Out-to Out Slab Width (ft)	Clear Span at Top of Chamber (ft)	Bearing Width (ft)	Primary Reinforcement	Distribution Reinforcement (bottom)	Temp. & Shrink. Reinforcement (top 2 layers) or eq. Wire Mesh	Fc Concrete psi
6	10	20.5	14	3.25	#8 @ 6.0"	#4 @ 6.0"	#4 @ 10"	6,000

DETAIL C

WELDED WIRE BASKET DETAILS

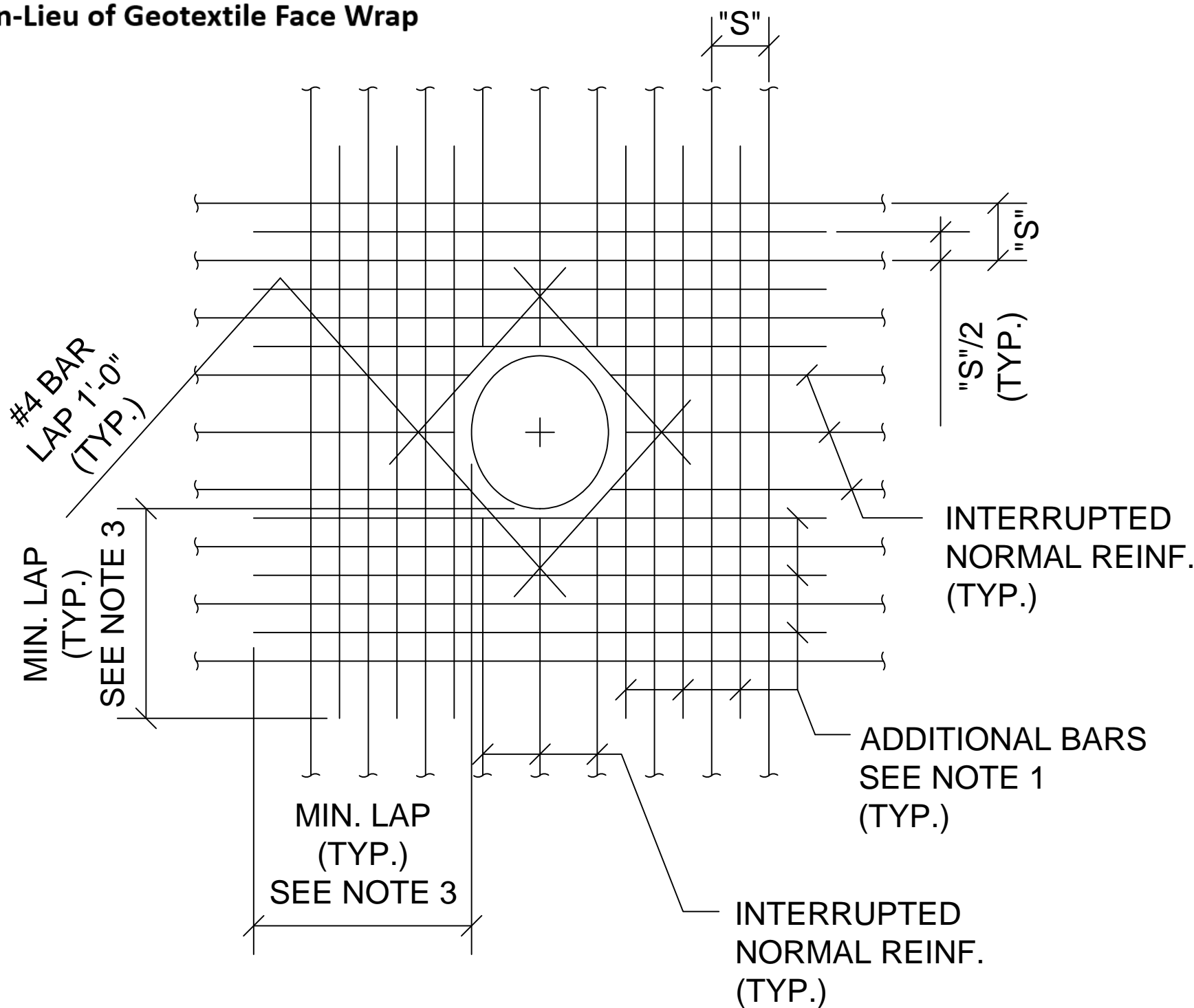
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NOTES:

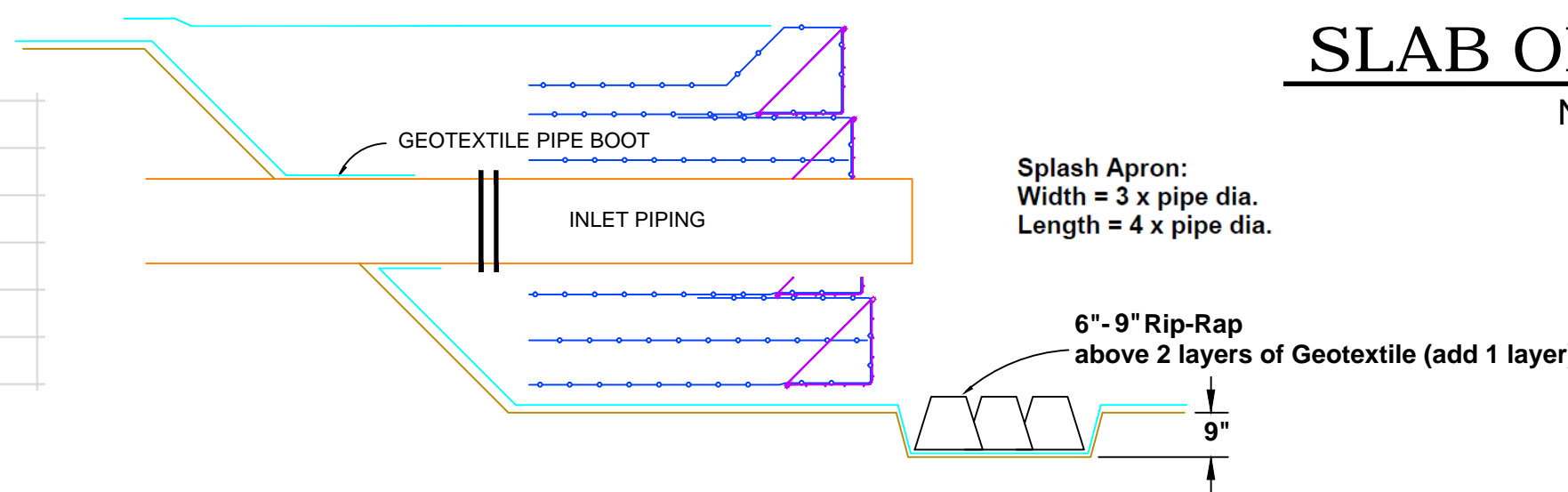
1. FACING TO CONSIST OF PREFABRICATED WWF 4x4.0xW4.0 FRAME
2. ALL FORMS AND STRUTS WILL BE FABRICATED WITH BLACK WIRE
3. OVERALL LENGTH OF WIRE FORMS IS 10'-0". EFFECTIVE CONSTRUCTED WIDTH IS 9'-8" WITH 4" OVERLAPPING AT ENDS
4. STRUT LENGTH AND CROSS-SECTIONAL FORM DIMENSIONSTO BE PROVIDED IN FABRICATORS SHOP DRAWINGS

Alternate Bridge Seat Chamber Wall Face (top 3 ft)
In-Lieu of Geotextile Face Wrap



ADDITIONAL REINFORCING BAR DETAIL AT OPENINGS (Manholes)

NOT TO SCALE



TYPICAL SECTION THRU INLET PIPING

NOT TO SCALE

DETAIL D

SLAB OPENING DETAIL

NOT TO SCALE

NOTES:

1. NUMBER OF ADD'L REIN. BARS AT EA. SIDE OF OPENING SHALL EQUAL HALF THE NUMBER OF INTERRUPTED BARS IN EA. LAYER OF REIN.
2. SIZE OF ADDITIONAL BARS TO EQUAL SIZE OF INTERRUPTED REIN. BARS.
3. PROVIDE STD HOOKFOR BARS IF LAP LENGTH EXTENSION CANNOT BE OBTAINED AT JOINTS OR OTHER OBSTRUCTIONS. PLACE ADD'L BARS IN SAME PLANES AS INTERRUPTED REIN.
4. DIAGONAL BARS SHALL BE #4 BARS. LOCATE DIAGONALS IN EACH LAYER OF REIN.
5. PLACE DIAGONAL BARS INSIDE NORMAL REIN.
6. ALL REIN. TO CLEAR OPENING OR FLANGE COLLARS BY 1"

BAR SIZE	MIN. LAP
#4	21"
#5	26"
#6	31"
#7	36"
#8	42"

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△				NTS	12-2-22	-	
△				DWG. BY	PROJECT MANAGER	SHT.	DWG. NO.
△				TS	TS	3 of 4	T-003