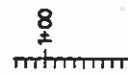


















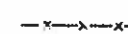








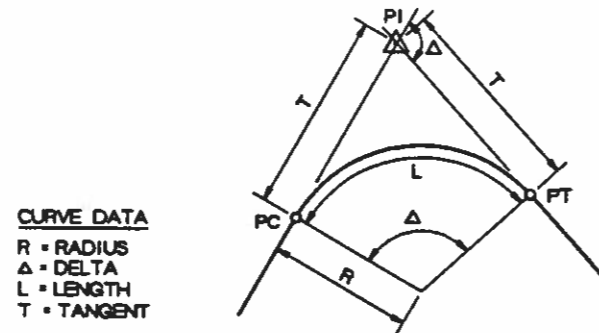


CIVIL SYMBOLS

-  HORIZONTAL CONTROL LINE WITH STATIONING
-  GRADE BREAK
-  TOP OF CUT SLOPE
-  TOE OF FILL SCOPE
-  MATCH LINE
-  ROADBASE SURFACE
-  TYPE M RIPRAP
-  NEW EMBANKMENT SLOPE AS INDICATED (HORIZ:VERT)
-  DRAINAGE DITCH
-  BORROW AREA LIMITS
-  FINISH GRADE
-  EXISTING SECONDARY CONTOUR
-  EXISTING PRIMARY CONTOUR
-  NEW SECONDARY CONTOUR
-  NEW PRIMARY CONTOUR
-  PI (POINT OF INTERSECTION), NUMBER
-  ELEVATION ORIGINAL GROUND
-  RADIAL POINT / PC / PT
-  PRIMARY CONTROL MONUMENT
-  EXISTING TREE OR SHRUB
-  INFORMATION SIGN
-  PROPERTY LINE/RIGHT OF WAY
-  EXISTING WIRE FENCE
-  NEW WIRE FENCE
-  CONSTRUCTION LIMIT
-  EXISTING ROAD
-  GEOTECH TEST PIT, NUMBER
-  EDGE OF EXST VEGETATION

CURVE DEFINITIONS FOR CONTROL LINE LAYOUT



CURVE DATA
 R = RADIUS
 Δ = DELTA
 L = LENGTH
 T = TANGENT

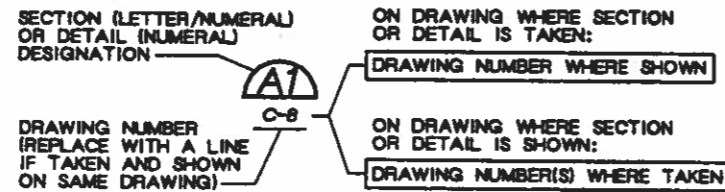
NOTE:
 IN GENERAL, EXISTING STRUCTURES AND FACILITIES ARE NOTED AS "EXISTING" AND SHOWN IN LIGHT LINES WEIGHTS, OR ARE SHOWN AS SCREENED BACKGROUND. NEW STRUCTURES ARE SHOWN IN HEAVY LINE WEIGHTS.

GENERAL NOTES

1. THE HORIZONTAL CONTROL COORDINATE SYSTEM AND VERTICAL CONTROL DATUM FOR THE QUINCY OUTFALL WATER QUALITY IMPROVEMENTS ARE ARBITRARY AND ARE BASED ON CONTROL POINTS ESTABLISHED BY BENCHMARK SURVEYING, LTD. AND SHOWN ON DWG C-1.
2. TOPOGRAPHIC MAPPING SHOWN ON THE DRAWINGS WAS PREPARED BY BENCHMARK SURVEYING, LTD. BASED ON A FIELD SURVEY DATED MARCH, 1995. ACTUAL FEATURES AND TOPOGRAPHY COULD VARY. THE CONTRACTOR SHALL VERIFY SITE CONDITIONS BEFORE THE START OF WORK.
3. PROJECT FACILITIES ARE TO BE LOCATED BASED ON THE SURVEY COORDINATES, ELEVATIONS, DIMENSIONS, AND/OR GEOMETRIC DESIGN DATA PROVIDED ON THE DRAWINGS. DISTANCE, STATION, AND ANGLE INFORMATION SHOWN ON THE DRAWINGS WAS DERIVED FROM THE PI COORDINATES LISTED ON DWG C-1 AND HAS BEEN ROUNDED TO THE NEAREST SECOND OF ANGLE AND HUNDRETH OF A FOOT. BORROW AREA GRADING SHOWN ON DWG C-1 IS TO BE BASED ON THE CONTOUR INFORMATION SHOWN.
4. THE FINAL FILL AND EXCAVATION SLOPES, LINES, AND GRADES SHOWN ON THE DRAWINGS ARE THE NEAT LINES FOR PAY PURPOSES AND ARE THE STEEPEST SLOPES PERMITTED UNLESS APPROVED BY THE ENGINEER. FLATTER SLOPES MAY BE NECESSARY, AS DETERMINED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING STABLE EXCAVATIONS AND TEMPORARY SLOPES AND FOR SATISFYING ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS. TEMPORARY EXCAVATIONS SHALL PROVIDE, AT MINIMUM, THE TRENCH DIMENSIONS AND CLEARANCES SHOWN OR SPECIFIED. TEMPORARY CONSTRUCTION SLOPES SHALL BE SLOPED, SHORED, SHEETED, AND/OR BRACED IN ACCORDANCE WITH STABILITY REQUIREMENTS AND APPLICABLE REGULATIONS, AND SHALL BE NO STEEPER THAN THE SLOPES SHOWN OR SPECIFIED WITHOUT THE APPROVAL OF THE ENGINEER. ANY SUCH APPROVALS BY THE ENGINEER WILL NOT RELIEVE THE CONTRACTOR FROM SOLE RESPONSIBILITY FOR PROVIDING STABLE EXCAVATIONS AND TEMPORARY SLOPES.
5. THE CONTRACTOR SHALL FIELD-LOCATE ALL UTILITIES PRIOR TO EXCAVATION. ALL EXISTING UTILITIES SHALL BE PROTECTED BY THE CONTRACTOR IN PLACE.
6. THE CONSTRUCTION WORK AREA IS LIMITED TO THE CONSTRUCTION LIMITS SHOWN ON THE DRAWINGS. CONSTRUCTION LIMIT FENCING, INCLUDING EROSION CONTROL FENCING DOWNGRADIENT OF WORK AREAS, WILL BE INSTALLED BY OTHERS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL TAKE CARE NOT TO DISTURB CONSTRUCTION LIMIT FENCING.
7. EXISTING SHRUBS AND TREES WITHIN EARTHFILL AREAS WILL BE REMOVED BY OTHERS PRIOR TO CONSTRUCTION. EXCAVATIONS PRODUCED BY SHRUB AND TREE REMOVAL SHALL BE FILLED BY THE CONTRACTOR. TRANSPLANTING OF EXISTING TREES AND SHRUBS TO THE BORROW AREA AND REVEGETATION OF SITE WILL BE PROVIDED BY OTHERS.

GENERAL DESIGN SYMBOLS

DETAIL AND SECTION DESIGNATION



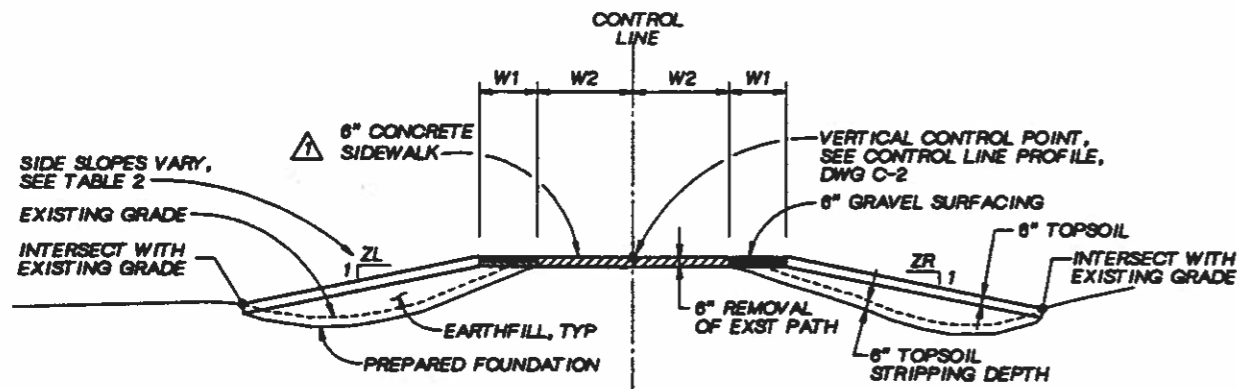
GENERAL DETAIL DESIGNATION



NOTE:
 GENERAL DETAIL REFERENCES FOR THE INSTALLATION OF INSTRUMENTATION ARE NOTED IN THE INSTRUMENT LIST IN THE SPECIFICATIONS.

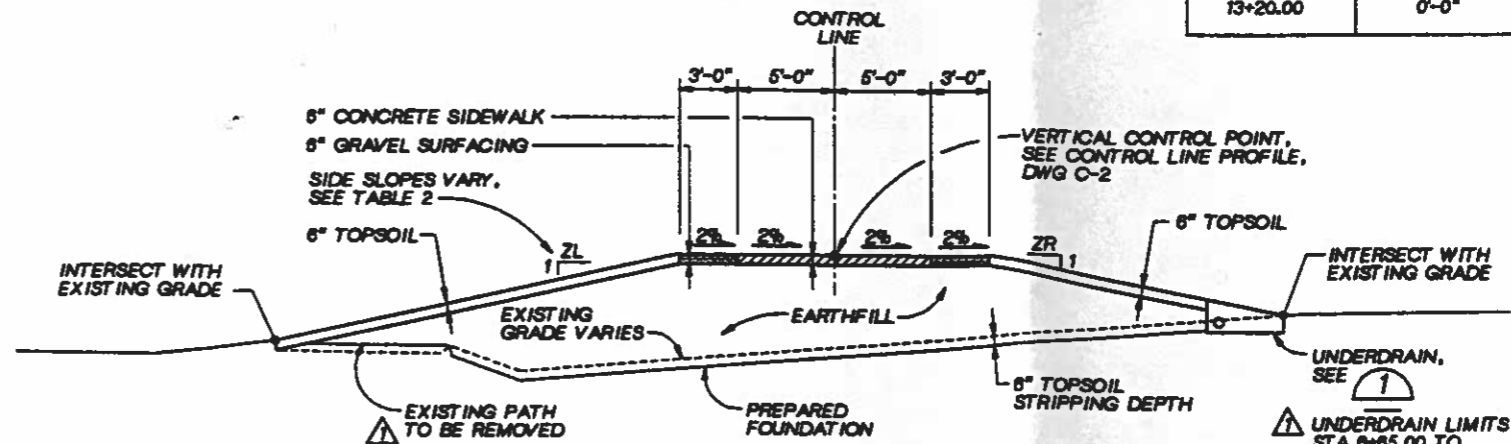
	DSGN J. WULLIMAN	▲	R/10/95	ADDENDUM NO.1 REVISIONS	JRS	JTW	REUSE OF DOCUMENTS THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.	BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	QUINCY OUTFALL WATER QUALITY IMPROVEMENTS CHERRY CREEK BASIN WATER QUALITY AUTHORITY	GENERAL LEGENDS AND GENERAL NOTES	SHEET 3
	DR R.WASILCHUK										DWG NO. G-3
	CHK D. JOHNS										DATE JULY 1995
	APVD J. WULLIMAN										PROJ NO. PMW40054.A3
	NO. DATE		REVISION		BY	APVD	©CH2M HILL				

STATION	W1	W2
0+80.00 TO 0+70.00	0'-0"	MATCH EXST PATH WIDTH 5'-0"
13+10.00 TO 13+20.00	3'-0"	5'-0" MATCH EXST PATH WIDTH

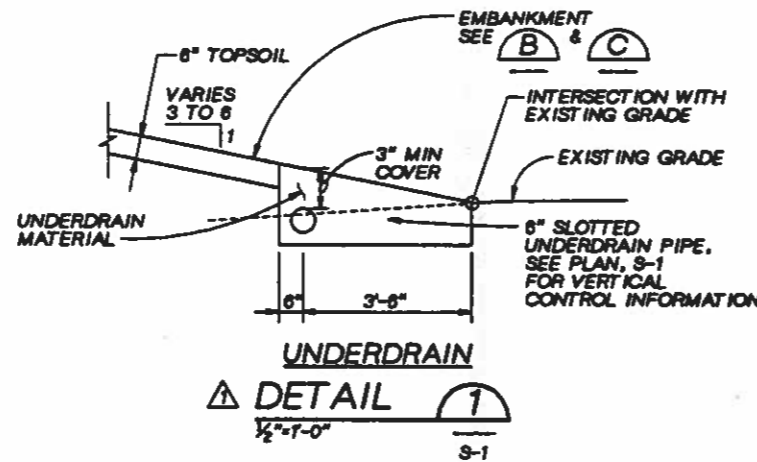


NOTES:
W1 AND W2 VARIES UNIFORMLY BETWEEN LIMITS SHOWN IN TABLE 1
CROSS SLOPE SHALL MATCH ADJACENT SECTION AT EACH END

TYPICAL SECTION A
STA. 0+80.00 TO STA. 0+70.00 AND STA. 13+10.00 TO STA. 13+20.00
1"=5'-0"

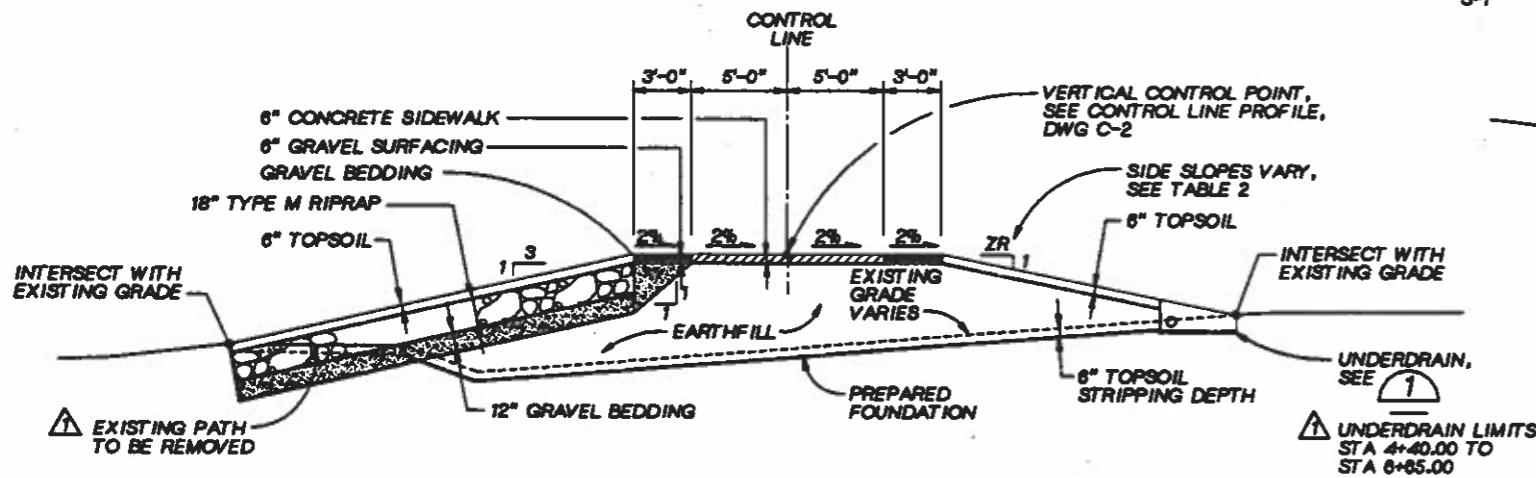


TYPICAL SECTION B
STA. 0+70.00 TO STA. 3+95.00 AND STA. 6+65.00 TO STA. 13+10.00
1"=5'-0"

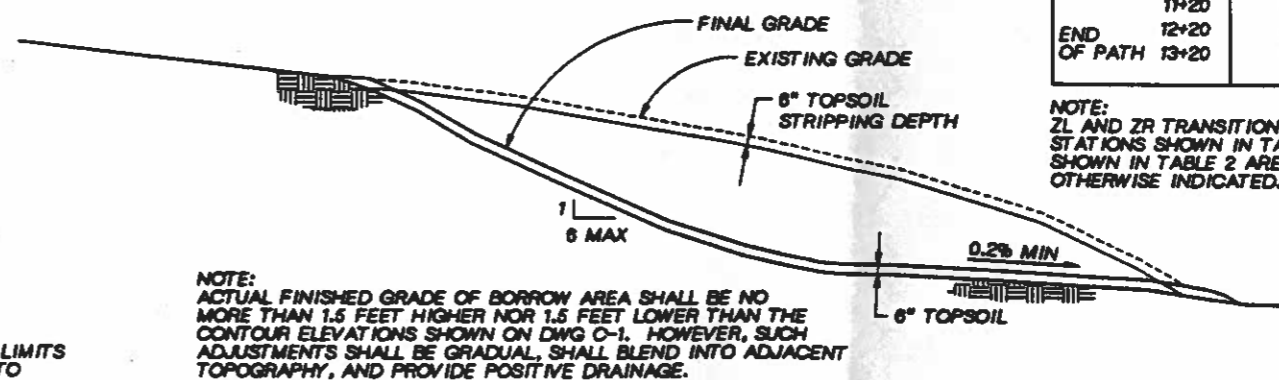


	ZL	ZR
START OF PATH	6	3 (IN CUT)
1+20	6	3 (IN CUT)
1+90	6	6
2+20	6	6
3+20	6	6
3+95	3	6
4+20	3	3
4+40	3	3
4+80	3	2.5
5+20	3	2.5
6+40	3	6
6+65	3	6
7+20	3	6
8+20	6	3
9+20	4	3
10+20	3	3
11+20	6	6
12+20	6	6
END OF PATH	6	6

NOTE: ZL AND ZR TRANSITION UNIFORMLY BETWEEN STATIONS SHOWN IN TABLE 2. ALL SLOPES SHOWN IN TABLE 2 ARE FILL SLOPES UNLESS OTHERWISE INDICATED.



TYPICAL SECTION C
STA. 3+95.00 TO STA. 6+65.00
1"=5'-0"



TYPICAL SECTION D
BORROW AREA
1"=5'-0"

DSGN	J. WULLIMAN	ADDENDUM NO. 1 REVISIONS
DR	R. WASILCHUK	
CHK	D. JOHNS	
APVD	J. WULLIMAN	

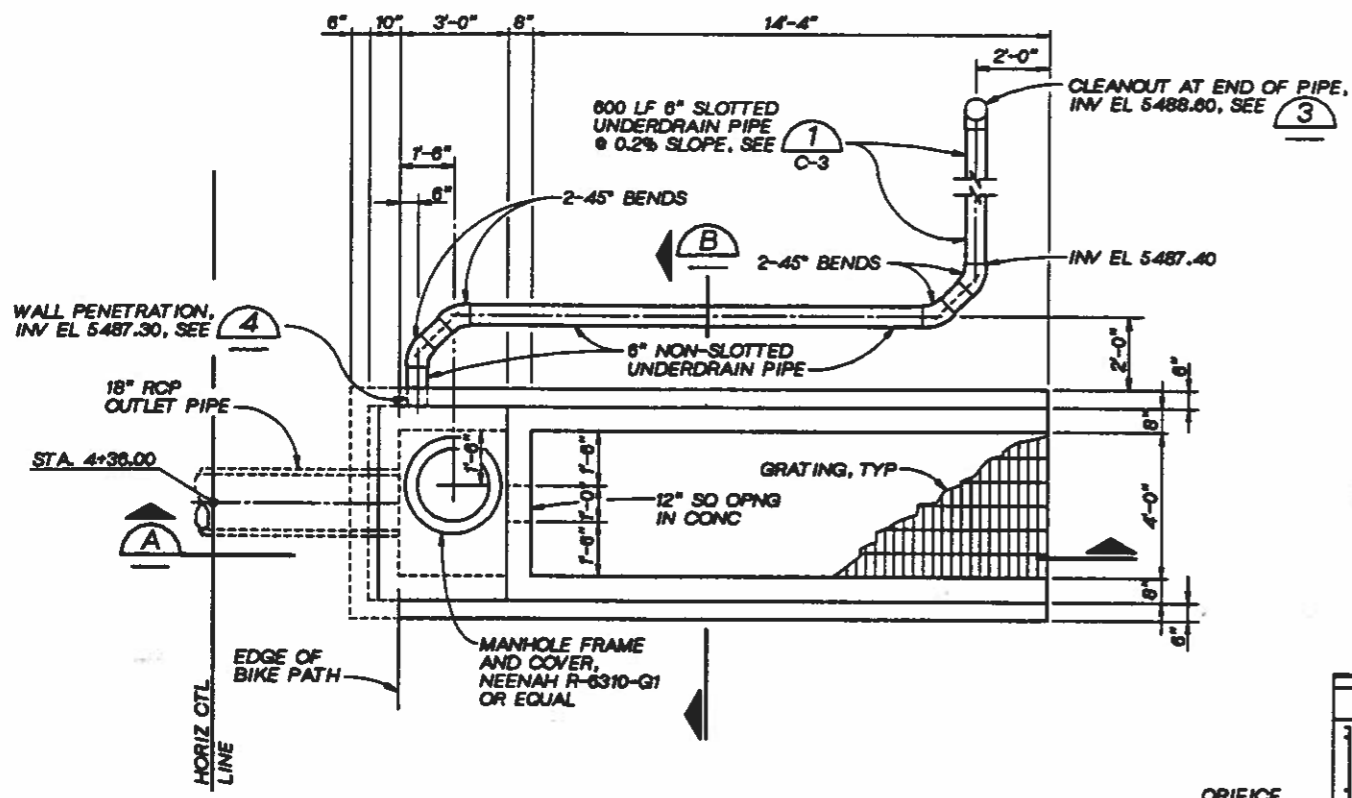
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1/8" = ONE INCH ON ORIGINAL DRAWING.
1/4" = ONE INCH ON THIS SHEET. ADJUST SCALES ACCORDINGLY.

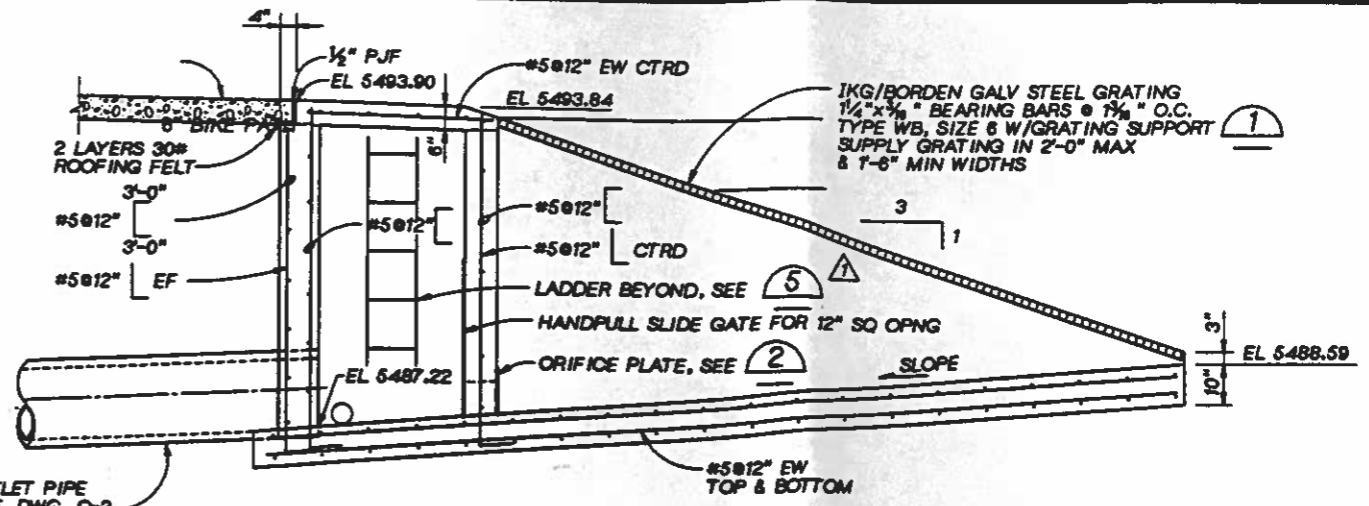
QUINCY OUTFALL
WATER QUALITY IMPROVEMENTS
CHERRY CREEK BASIN
WATER QUALITY AUTHORITY

CIVIL
TYPICAL SECTIONS

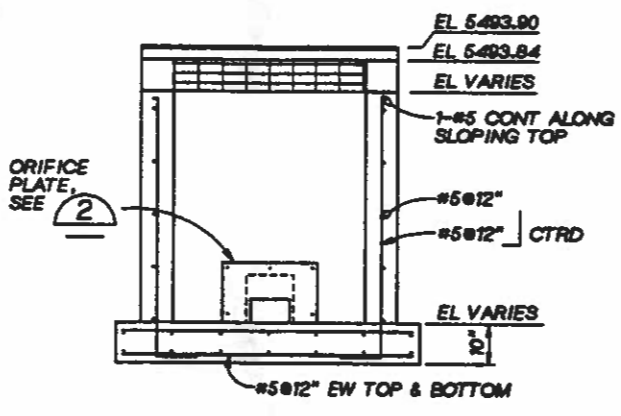
SHEET	6
DWG NO.	C-3
DATE	JULY 1985
PROJ. NO.	FWW40054.A3



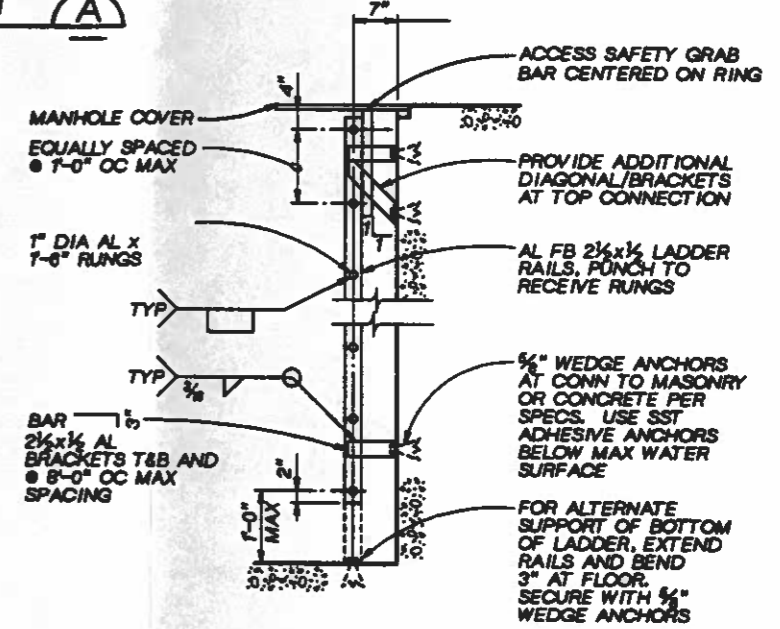
OUTLET STRUCTURE PLAN
1/2" x 1'-0"



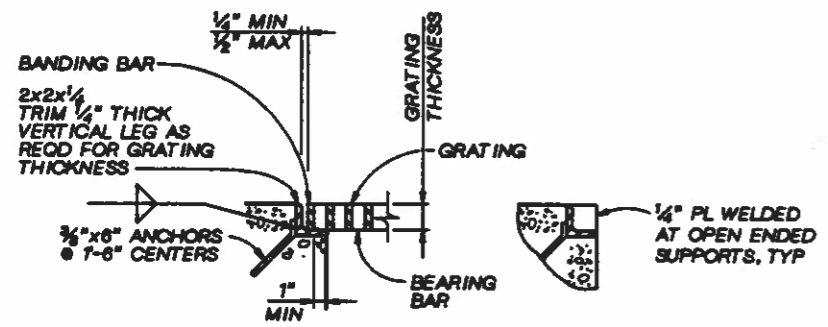
SECTION A
1/2" x 1'-0"



SECTION B
1/2" x 1'-0"

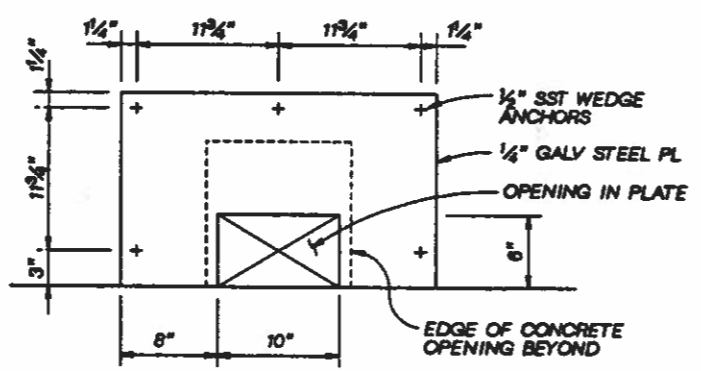


LADDER 5
NTS



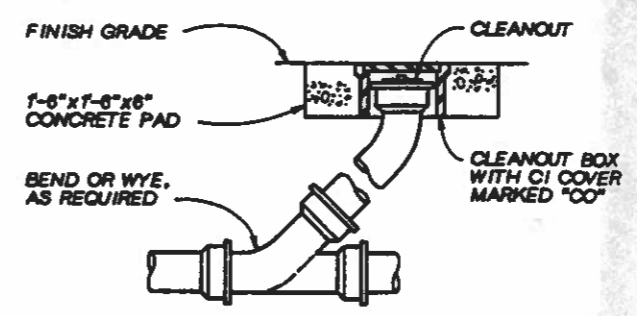
- NOTES:**
1. EMBEDDED GRATING SUPPORT INCLUDING ANCHORS SHALL BE GALV STEEL.
 2. PROVIDE 4 SST SADDLE CLAMPS AND BOLT STUDS TO SECURE EACH SECTION OF GRATING.

GRATING SUPPORT
NTS



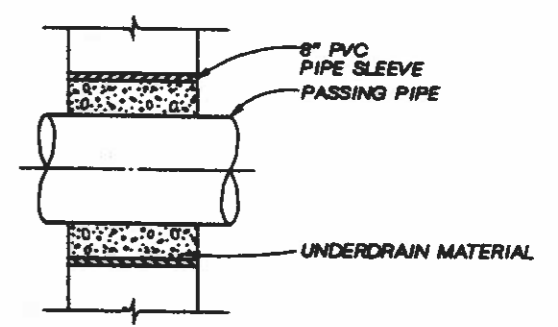
NOTE: PROVIDE 2" WIDE x CONT NEOPRENE GASKET, CTRD ON BOLTS, BETWEEN PLATE AND CONCRETE.

ORIFICE PLATE
1/2" x 1'-0"



NOTE: CLEANOUTS PROVIDED AT END OF PIPE AND 200' O.C. ALONG PIPE.

CLEANOUT
NTS



WALL PENETRATION
NTS

	DESGN J. MAXFIELD DR R. WASILCHUK CHK J. MAXFIELD APVD J. WULLIMAN	8/10/95 ADDENDUM NO. 1 REVISIONS	JRS JTW	REUSE OF DOCUMENTS THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.	BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	QUINCY OUTFALL WATER QUALITY IMPROVEMENTS CHERRY CREEK BASIN WATER QUALITY AUTHORITY	STRUCTURAL OUTLET STRUCTURE PLAN, SECTIONS AND DETAILS	SHEET 7 DWG NO. 8-1 DATE JULY 1995 PROJ NO. RBW40054.A3
	NO. DATE REVISION BY APVD	© CH2M HILL	0054s001.div 10-AUG-1995 11:13:49					