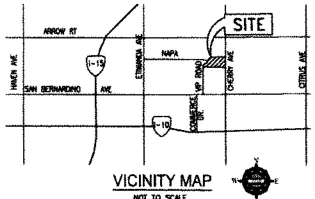
Exhibit E - Interim Basin Plans

SAN BERNARDINO
COUNTY
PUBLIC WORKS

SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS SPECIAL DISTRICTS

SPEEDWAY COMMERCE CENTER II BASIN IMPROVEMENT PLAN

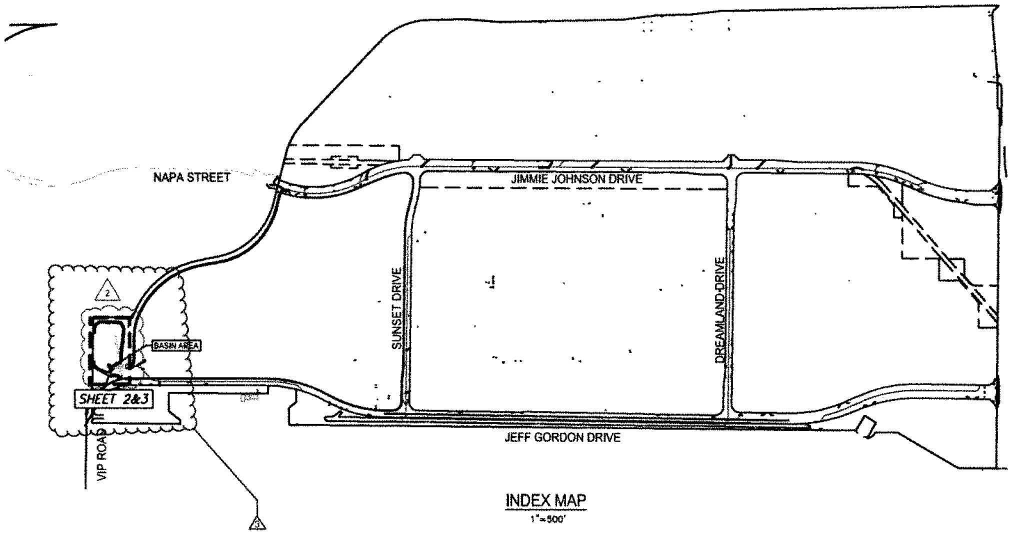
INTERIM CONDITION DESIGN FOR PHASE 2 CONSTRUCTION



VICINITY MAP
NOT TO SCALE
T1S, R6W, S9, 10, 15, & 16 S.B.M.

GENERAL NOTE

1. ALL STATIONING REFERS TO CENTERLINE OF CONSTRUCTION UNLESS OTHERWISE NOTED.
2. STATIONING FOR LATERALS AND CONNECTOR PIPE REFER TO THE CENTERLINE INTERSECTION STATIONS.
3. FORTY-EIGHT HOURS BEFORE EXCAVATION, CALL UNDERGROUND SERVICE ALERT 1.800.422.4133
4. ALL ELEVATIONS SHOWN ARE IN FEET AND DECIMALS THEREOF BASED ON THE VERTICAL DATUM IS DERIVED FROM NAVD-88.
5. ALL COORDINATES ARE SHOWN IN FEET AND DECIMALS THEREOF BASED ON THE NORTH AMERICAN DATUM (NAD 83), CALIFORNIA COORDINATE SYSTEM (CCS), ZONE 5 AND EPOCH 2017.50.
6. ALL CROSS SECTIONS ARE TAKEN LOOKING DOWNSTREAM.
7. ELEVATIONS OF UTILITIES ARE APPROXIMATE UNLESS OTHERWISE NOTED.
8. ALL PAVEMENT JOIN LINES SHALL BE SAWCUT ON A NEAT, STRAIGHT LINE PARALLEL WITH THE JOIN. THE CUT EDGE SHALL BE PROTECTED FROM CURSING, ALL BROKEN EDGES WILL BE RECUT PRIOR TO PAVING.
9. ALL EXISTING UTILITIES WILL BE ABANDONED OR DEMOLISHED PRIOR TO SEWER CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLAN. ANY INTERFERING PORTION TO BE REMOVED PER SBCSDD STANDARD.
10. PIPE CONNECTED TO THE MAINLINE PIPE SHALL CONFORM TO JUNCTION STRUCTURE NO.4 (JS229) UNLESS OTHERWISE NOTED.
11. PIPE BEDDING SHALL CONFORM TO RCFC&WCD STD. DWG. NO. M815 EXCEPT FOR COVER <2 FEET. FOR COVER <2 FEET, CONCRETE SLURRY (2000 PSI-2 SACK) SHALL BE USED. THE ENTIRE TRENCH SHALL BE SLURRY EXTENDING 4 INCHES MINIMUM AND 12 INCHES MAXIMUM ABOVE THE TOP OF THE PIPE.
12. "H" IS THE DEPTH OF CATCH BASINS MEASURED FROM THE TOP OF CURB TO INVERT OF CONNECTOR PIPE.
13. CATCH BASINS SHALL BE LOCATED SO THAT LOCAL DEPRESSIONS SHALL BEGIN AT EXISTING CURB RETURN JOINT, UNLESS OTHERWISE SPECIFIED.
14. ALL CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS AND OTHER EXISTING IMPROVEMENTS TO BE RECONSTRUCTED IN KIND AND AT THE SAME ELEVATION AND LOCATION AS THE EXISTING IMPROVEMENTS UNLESS OTHERWISE NOTED.
15. STANDARD DRAWINGS CALLED FOR ON THE PLAN AND PROFILE SHALL CONFORM TO DISTRICT STANDARD DRAWINGS UNLESS NOTED OTHERWISE.
16. THE CONTRACTOR IS REQUIRED TO CALL ALL UTILITY AGENCIES REGARDING TEMPORARY SHORING AND SUPPORT REQUIREMENTS FOR THE VARIOUS UTILITY LINES SHOWN ON THESE PLANS.
17. DURING ROUGH GRADING OPERATIONS AND PRIOR TO CONSTRUCTION OF PERMANENT DRAINAGE STRUCTURES, TEMPORARY DRAINAGE CONTROL SHOULD BE PROVIDED TO PREVENT PONDING WATER AND DAMAGE TO ADJACENT PROPERTIES.
18. APPROVAL OF THESE PLANS BY THE SAN BERNARDINO COUNTY SPECIAL DISTRICT DOES NOT RELIEVE THE DEVELOPER'S ENGINEER OF RESPONSIBILITY FOR THE ENGINEERING DESIGN. IF FIELD CHANGES ARE REQUIRED, IT WILL BE THE RESPONSIBILITY OF THE DESIGN ENGINEER TO MAKE THE NECESSARY CORRECTIONS.
19. THE CONTRACTOR OR DEVELOPER SHALL SECURE ALL REQUIRED ENCROACHMENT AND OR STATE AND FEDERAL REGULATORY PERMITS PRIOR TO THE COMMENCEMENT OF ANY WORK.
20. THE CONCRETE COATING ON THE INSIDE OF ALL REINFORCED CONCRETE PIPES MUST BE INCREASED TO PROVIDE A MINIMUM OF 1-1/2 INCHES OVER THE REINFORCING AND INCREASED TO A MINIMUM OF 3-1/2 INCHES OVER REINFORCING OF BOX CULVERT, WHEN DESIGN VELOCITIES EXCEED 20 FEET PER SECOND. THE CONCRETE DESIGN STRENGTH IN THESE REACHES SHALL BE F'C=5,000 PSI FOR VELOCITIES EXCEEDING 20 FEET PER SECOND AND F'C=6,000 PSI FOR VELOCITIES EXCEEDING 30 FEET PER SECOND.
21. CONSTRUCTION JOINTS FOR CALTRANS STANDARD REINFORCED CONCRETE BOX SHALL BE PLACED ACCORDING TO RCFC&WCD STANDARD DRAWING NO. BOX 401.



INDEX MAP
1"=500'

DECLARATION OF ENGINEER OF RECORD

I HEREBY DECLARE THAT THE DESIGN OF THE IMPROVEMENTS AS SHOWN ON THESE PLANS COMPLIES WITH PROFESSIONAL ENGINEERING STANDARDS AND PRACTICES. AS THE ENGINEER IN RESPONSIBLE CHARGE OF THE DESIGN OF THESE IMPROVEMENTS, I ASSUME FULL RESPONSIBLE CHARGE FOR SUCH DESIGN. I UNDERSTAND AND ACKNOWLEDGE THAT THE PLAN CHECK OF THESE PLANS BY SAN BERNARDINO COUNTY SPECIAL DISTRICT DEPARTMENT (SBCSDD) IS A REVIEW FOR THE LIMITED PURPOSE OF ENSURING THAT THE PLANS COMPLY WITH SBCSDD PROCEDURES, APPLICABLE POLICES AND ORDINANCES. THE PLAN CHECK IS NOT A DETERMINATION OF THE TECHNICAL ADEQUACY OF THE DESIGN OF THE IMPROVEMENTS. SUCH PLAN CHECK DOES NOT, THEREFORE, RELIEVE ME OF MY RESPONSIBILITY FOR THE DESIGN OF THESE IMPROVEMENTS. AS ENGINEER OF RECORD, I AGREE TO INDEMNIFY AND HOLD SBCSDD, IT'S OFFICERS, AGENTS, AND EMPLOYEES HARMLESS FROM ANY AND ALL LIABILITY, CLAIMS, DAMAGES OR INJURIES TO ANY PERSON OR PROPERTY WHICH MIGHT ARISE FROM THE NEGLIGENT ACTS, ERRORS OR OMISSIONS OF THE ENGINEER OF RECORD. I HAVE READ AND INFORMED THE PROJECT APPLICANT/DEVELOPER THAT APPROVAL OF THESE PLANS DO NOT RELIEVE THEM FROM THE REQUIREMENTS OF THE CONDITIONS OF APPROVAL (ATTACHED HEREIN OR IN OTHER APPROVED IMPROVEMENTS PLANS).

BY ______________________ DATE ______________

ERIC HAYS, RCE NO. C73614

ENGINEER'S NOTICE TO CONTRACTORS

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.

THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES, PIPES OR STRUCTURES, SHOWN ON THESE PLANS ARE OBTAINED BY SEARCH OF THE AVAILABLE RECORDS AND FIELD LOCATIONS AS ESTABLISHED BY THE UTILITY COMPANY. THIS INFORMATION IS NOT GUARANTEED. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO LOCATE, MAINTAIN AND PROTECT ALL UTILITIES DURING CONSTRUCTION. ANY UTILITY DAMAGED DURING THE PERFORMANCE OF WORK SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE GOVERNING AGENCY BY THE CONTRACTOR AT HIS EXPENSE. THE CONTRACTOR IS REQUIRED TO NOTIFY THE EXISTING UTILITY COMPANIES IN THE AREA BEFORE THE START OF ANY WORK.

CONTRACTOR POTHOLE NOTE:

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO POTHOLE AS NECESSARY TO VERIFY THE EXISTING UTILITY LOCATION, ELEVATION AT CROSSING PRIOR TO CONSTRUCTION.

TIME LIMITATION

THE TIME LIMIT ON DRAWING(S) APPROVAL SHALL BE TWELVE (12) MONTHS FROM THE DATE ON THE APPROVAL. IF CONSTRUCTION HAS NOT COMMENCED WITHIN STATED TIME, SPECIAL DISTRICT REQUIRES DRAWING(S) TO BE REVIEWED BY THE DEVELOPER/DESIGN ENGINEER AND RESUBMITTED TO SPECIAL DISTRICT FOR POSSIBLE CHANGES IN SPECIFICATIONS AND STANDARDS.

SHEET INDEX

SHEET 1	TITLE SHEET
SHEET 2-3	BASIN GRADING
SHEET 4-5	DETAIL

*BACKBONE STORM DRAIN IMPROVEMENT WILL BE PER SEPARATE SET OF PLAN

ISSUED FOR CONSTRUCTION

H:\2022\22-0074\DRAWINGS\PLAN SHEETS\22-0074 SD BASIN TITLE.DWG 11/25/2024 12:45:08 PM

UNDERGROUND SERVICE ALERT
Call: TOLL FREE
1-800-227-2600
OR
811
TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:
NGS #700 21 RESET (PID #EV3227)
ELEVATION = 1136.15' (NAVD 88)

DESCRIBED BY NATIONAL GEODETIC SURVEY 1978
1.0 MI EAST FROM ETIWANDA SIDING, 1.0 MILES EAST ALONG THE ATCHISON TOPEKA AND SANTA FE RAILWAY FROM ETIWANDA SIDING, IN TOP THE NORTH END OF WEST CONCRETE ABUTMENT FOR WOODEN RAILROAD BRIDGE, 11.0 FT. NORTH THE NORTH RAIL.

CONVERSION FACTOR FROM NAVD 88 TO NGVD 29 = -2.56 FEET.

BASIS OF BEARINGS:
PER THIENES ALTA:
CALIFORNIA STATE PLANE COORDINATE SYSTEM (CCS83), ZONE 5, NORTH AMERICAN DATUM 1983 (NAD83) BASED LOCALLY ON CONTINUOSLY OPERATING REFERENCE STATIONS (CORS) "EWPP" AND "DSA" AS BEING NORTH 82°35'10.0055" WEST (BASIS OF BEARINGS) (GRID) AND REPRESENTED HEREON BY NORTH LINE OF SECTION 16, T1S, R6W, SBM AS BEING NORTH 89°57'21" EAST (2010.0 EPOCH).

ERIC T. HAYS
No. C73614

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256

PREPARED UNDER THE SUPERVISION OF:
PROFESSIONAL ENGINEER C 73614 (R.C.E. No.) 03/25/2024 (DATE)

REVISIONS

MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE
3			REVISE BASIN HEADWALL FOR INTERIM CONST.	[illegible]	
2	[illegible]	A.A.	REVISED ACCESS ROAD LAYOUT AND GRADING, REVISED LOT LINE AND FENCE	[illegible]	
1	[illegible]	A.A.	REVISED LOT LINE AND PROPOSED FENCE		

BACKBONE STORM DRAIN PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS

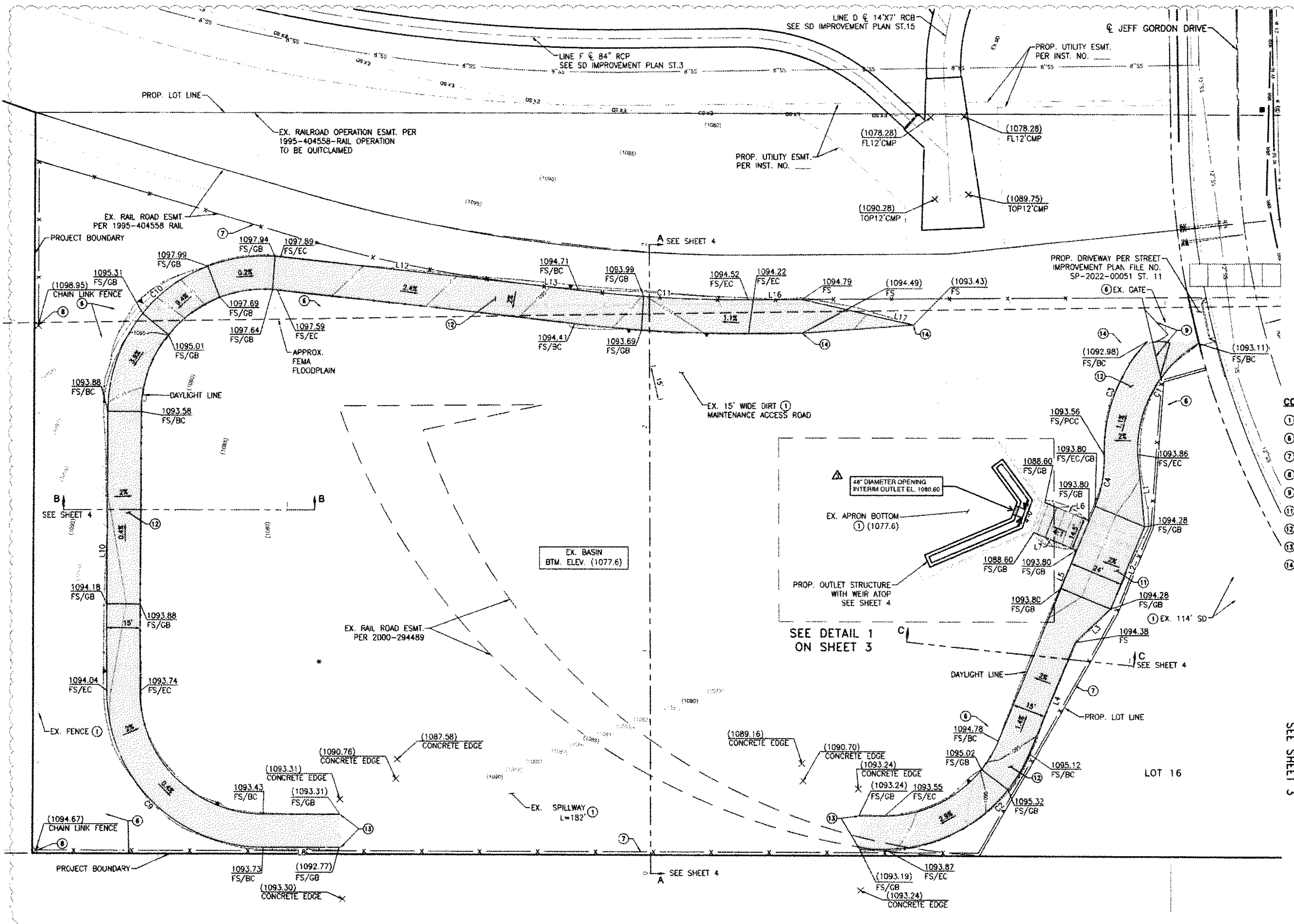
David Doublet Digitally signed by David Doublet Date: 2024.04.01 09:37:40 -07'00' 3/26/2024
ASSISTANT DIRECTOR DATE

APPROVALS		INITIAL	DATE
	REVIEWER	[illegible]	3/26/2024
	PM DIVISION MANAGER	[illegible]	3/26/2024
	OPS DIVISION MANAGER	Harry Mac	3/26/2024

BASIN IMPROVEMENT PLANS

SPEEDWAY COMMERCE CENTER II
TITLE SHEET

DWG NO. -----
FILE NO. -----
SHEET 1 OF 5


LINE D ℄ 14'X7' RCB
SEE SD IMPROVEMENT PLAN ST.15
℄ JEFF GORDON DRIVE
LINE F ℄ 84" RCP
SEE SD IMPROVEMENT PLAN ST.3
PROP. UTILITY ESMT.
PER INST. NO. ____
PROP. LOT LINE
EX. RAILROAD OPERATION ESMT. PER
1995-404558-RAIL OPERATION
TO BE QUITCLAIMED
PROP. UTILITY ESMT.
PER INST. NO. ____
(1078.28)
FL12'CMP
(1078.28)
FL12'CMP
(1090.28)
TOP12'CMP
(1089.75)
TOP12'CMP
EX. RAIL ROAD ESMT.
PER 1995-404558 RAIL
PROJECT BOUNDARY
(1098.95)
CHAIN LINK FENCE
1095.31
FS/GB
1097.99
FS/GB
1097.94
FS/GB
1097.89
FS/EC
1097.69
FS/GB
1097.64
FS/GB
1097.59
FS/EC
1095.01
FS/GB
APPROX.
FEMA
FLOODPLAIN
A SEE SHEET 4
1094.71
FS/BC
1093.99
FS/GB
1094.41
FS/BC
1093.69
FS/GB
1094.52
FS/EC
1094.22
FS/EC
1094.79
FS
(1094.49)
FS
(1093.43)
FS
L12
L13
L16
L17
C10
C11
0.2%
2.4%
2%
1.1%
PROP. DRIVEWAY PER STREET
IMPROVEMENT PLAN FILE NO.
SP-2022-00051 ST. 11
EX. GATE
(1093.11)
FS/BC
(1092.98)
FS/BC
1093.56
FS/PCC
1093.80
FS/EC/GB
1088.60
FS/GB
1093.80
FS/GB
1093.86
FS/EC
1094.28
FS/GB
1088.60
FS/GB
1093.80
FS/GB
1093.80
FS/GB
1094.28
FS/GB
EX. 114' SD
1094.38
FS
C1
C2
C3
C4
L1
L2
L3
L4
L5
L6
L7
24'
15'
1.1%
2%
1093.88
FS/BC
DAYLIGHT LINE
1093.58
FS/BC
EX. 15' WIDE DIRT
MAINTENANCE ACCESS ROAD
48" DIAMETER OPENING
INTERIM OUTLET EL. 1080.60
EX. APRON BOTTOM
(1077.6)
PROP. OUTLET STRUCTURE
WITH WEIR ATOP
SEE SHEET 4
SEE DETAIL 1
ON SHEET 3
B SEE SHEET 4 B
EX. BASIN
BTM. ELEV. (1077.6)
1094.18
FS/GB
1093.88
FS/GB
L10
15'
0.4%
EX. RAIL ROAD ESMT.
PER 2000-294489
C SEE SHEET 4
DAYLIGHT LINE
PROP. LOT LINE
1094.04
FS/EC
1093.74
FS/EC
EX. FENCE
(1087.58)
CONCRETE EDGE
(1090.76)
CONCRETE EDGE
(1093.31)
CONCRETE EDGE
1093.43
FS/BC
(1093.31)
FS/GB
EX. SPILLWAY
L=182'
(1089.16)
CONCRETE EDGE
(1090.70)
CONCRETE EDGE
(1093.24)
CONCRETE EDGE
(1093.24)
FS/GB
1093.55
FS/EC
1094.78
FS/BC
1095.02
FS/GB
1095.12
FS/BC
1095.32
FS/GB
LOT 16
(1094.67)
CHAIN LINK FENCE
PROJECT BOUNDARY
1093.73
FS/BC
(1092.77)
FS/GB
(1093.30)
CONCRETE EDGE
C9
L8
SEE SHEET 4
A
(1093.19)
FS/GB
1093.87
FS/EC
(1093.24)
CONCRETE EDGE
SEE SHEET 3

LINE AND CURVE TABLE

LINE #/CURVE #	RADIUS	BEARING/DELTA	LENGTH	TANGENT
C1	55.00	61°30'54"	59.05	32.73
C2	70.00	67°37'50"	82.62	46.89
C3	70.00	45°30'03"	55.59	29.35
C4	55.00	24°10'25"	23.20	11.77
C9	70.00	90°16'20"	110.29	70.33
C10	70.00	95°54'57"	117.18	77.63
C11	612.67	7°09'09"	76.48	38.29
L1		S84°38'41"W	32.41	
L2		N67°30'55"W	40.00	
L3		N43°17'15"W	21.93	
L4		N67°30'55"W	54.12	
L5		S67°30'55"E	114.12	
L6		S22°29'05"W	21.34	
L7		S22°29'05"W	20.81	
L8		N00°06'53"E	34.84	
L10		S89°36'47"E	124.86	
L12		S06°18'10"W	109.17	
L13		S05°45'14"W	25.06	
L16		S00°22'56"E	24.12	
L17		S12°41'21"W	51.21	

CONSTRUCTION NOTES

① PROTECT IN PLACE.

⑥ REMOVE EXISITING FENCE.

⑦ CONSTRUCT 6' CHAIN LINK FENCE PER RCFC & WCJ STD. DWG. NO. MB01.

⑧ JOIN PROPOSED FENCE TO EXISITING FENCE.

⑨ CONSTRUCT 30' WIDE DOUBLE DRIVE GATE PER RCFC & WCD STD. DWG. NO. MB01.

⑪ CONSTRUCT 24' WIDE TURNOUT AREA. MATERIAL SHALL BE 9" THICK CLASS II BASE.

⑫ CONSTRUCT 15' WIDE ACCESS ROAD. MATERIAL SHALL BE 9" THICK CLASS II BASE.

⑬ JOIN PROPOSED ACCESS ROAD TO EXISTING SPILLWAY APRON TO MATCH LINE AND GRADE.

⑭ JOIN PROPOSED ACCESS ROAD TO EXISTING ACCESS ROAD TO MATCH LINE AND GRADE.

1" = 20'

ISSUED FOR CONSTRUCTION

UNDERGROUND SERVICE ALERT

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1-800-227-2600
OR
811

TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:
NGS #700 21 RESET (PID #EX3227)
ELEVATION = 1136.15' (NAVD 88)

DESCRIBED BY NATIONAL GEODETIC SURVEY 1978 1.0 MI EAST FROM ETIWANDA SIDING. 1.0 MILES EAST ALONG THE ATCHISON TOPEKA AND SANTA FE RAILWAY FROM ETIWANDA SIDING, IN TOP THE NORTH END OF WEST CONCRETE ABUTMENT FOR WOODEN RAILROAD BRIDGE, 11.0 FT. NORTH THE NORTH RAIL.

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PREPARED UNDER THE SUPERVISION OF:

PROFESSIONAL ENGINEER — R.C.E. No. C 73614 — DATE 03/25/2024

REVISIONS

MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE
△			REVISE BASIN HEADWALL FOR INTERIM CONST.		
△	[illegible]	A.A.	REVISED ACCESS ROAD LAYOUT AND GRADING REVISED LOT LINE AND FENCE		
△	[illegible]	A.A.	REVISED LOT LINE AND PROPOSED FENCE		

BACKBONE STORM DRAIN PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS

David Doublet — Digitally signed by David Doublet Date: 2024.04.01 08:39:15 -07'00' — 3/28/2024
ASSISTANT DIRECTOR — DATE

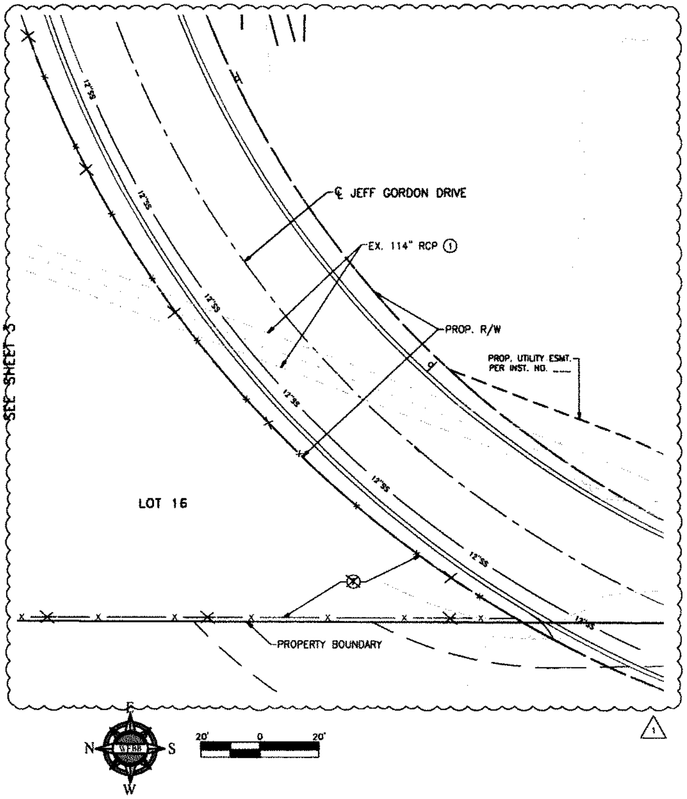
APPROVALS		INITIAL	DATE
	REVIEWER		3/26/2024
	PM DIVISION MANAGER		3/26/2024
	OPS DIVISION MANAGER	Henry Mac	3/26/2024

BASIN IMPROVEMENT PLANS

SPEEDWAY COMMERCE CENTER II
GARDING SHEET

DWG NO. -----
FILE NO -----
SHEET 2 OF 5

H:\2022\22-0074\DRAWINGS\PLAN SHEETS\22-0074 SD BASIN SHEET.DWG 11/25/2024 12:47:46 PM


SEE SHEET 3
℄ JEFF GORDON DRIVE
EX. 114" RCP ①
PROP. R/W
PROP. UTILITY ESMT.
PER INST. NO. ___
LOT 16
12"SS
PROPERTY BOUNDARY
N
S
E
W
WEBB
20'
0
20'
1

CONSTRUCTION NOTES

① PROTECT IN PLACE.

② CONSTRUCT INLET STRUCTURE WITH WEIR ATOP PER DETAIL ON SHEET 5.

③ CONSTRUCT INLET STRUCTURE AND APRON CONNECTION PER DETAIL ON SHEET 5.

④ MODIFY EXISTING STRUCTURE TO EXPAND 51" OPENING TO 114" OPENING PER DETAIL ON SHEET 5.

⑤ RETROFIT EXISTING APRON TO CONSTRUCT PROPOSED STRUCTUR PER DETAIL ON SHEET 5.

⑥ REMOVE EXISITING FENCE.

⑦ CONSTRUCT 6' CHAIN LINK FENCE PER RCFC & WCD STD. DWG. NO. M801.

⑩ CONSTRUCT 14.5' WIDE WALKWAY. MATERIAL SHALL BE 9" THICK CLASS II BASE.

⑪ CONSTRUCT 24' WIDE TURNOUT AREA. MATERIAL SHALL BE 9" THICK CLASS II BASE.

⑮ INSTALL STANDARD DROP STEP PER RCFC & WCD STD. DWG. NO. MH259.

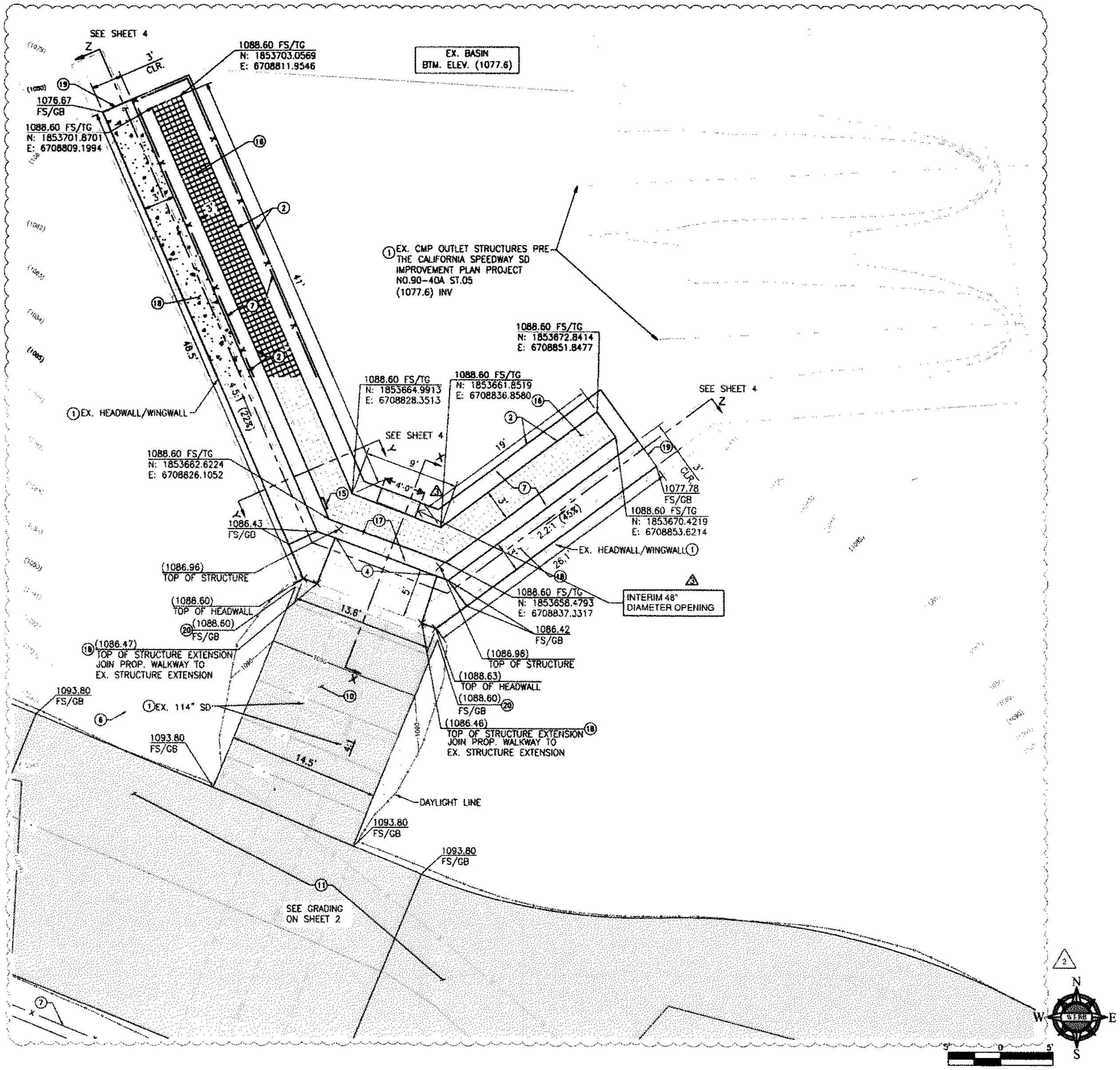
⑯ INSTALL GRATE ALONG WEIR OUTLET STRUCTURE TOP PER CALTRANS STD. D77-B.

⑰ INSTALL 6' CHAIN LINK FENCE WITH 14' WIDE DOUBLE DRIVE GATE PER RCFC & WCD STD. DWG. NO. M801.

⑱ CONSTRUCT 3' WIDE WALKWAY. MATERIAL SHALL BE 4" PCC OVER 90% COMPACTED NATIVE.

⑲ JOIN PROPOSED WALKWAY TO EXISTING FINISHED SURFACE.

⑳ JOIN PROPOSED 14.5' WIDE WALKWAY TO EXISTING HEADWALL.


SEE SHEET 4
Z
3'
CLR.
1088.60 FS/TG
N: 1853703.0569
E: 6708811.9546
EX. BASIN
BTM. ELEV. (1077.6)
⑲
1076.67
FS/GB
1088.60 FS/TG
N: 1853701.8701
E: 6708809.1994
⑯
②
3'
①EX. CMP OUTLET STRUCTURES PRE
THE CALIFORNIA SPEEDWAY SD
IMPROVEMENT PLAN PROJECT
NO.90-40A ST.05
(1077.6) INV
⑱
⑦
41'
48.5'
4.5:1 (22%)
①EX. HEADWALL/WINGWALL
1088.60 FS/TG
N: 1853672.8414
E: 6708851.8477
1088.60 FS/TG
N: 1853664.9913
E: 6708828.3513
1088.60 FS/TG
N: 1853661.8519
E: 6708836.8580
SEE SHEET 4
Y
9'
4'-0"
3
19'
⑮
⑰
1088.60 FS/TG
N: 1853662.6224
E: 6708826.1052
1086.43
FS/GB
⑲
3'
CLR.
1077.78
FS/GB
1088.60 FS/TG
N: 1853670.4219
E: 6708853.6214
2.2:1 (45%)
26.1'
EX. HEADWALL/WINGWALL①
④
5'
1088.60 FS/TG
N: 1853658.4793
E: 6708837.3317
INTERIM 48"
DIAMETER OPENING
1086.42
FS/GB
(1086.96)
TOP OF STRUCTURE
(1088.60)
TOP OF HEADWALL
⑳(1088.60)
FS/GB
⑱(1086.47)
TOP OF STRUCTURE EXTENSION
JOIN PROP. WALKWAY TO
EX. STRUCTURE EXTENSION
13.6'
(1086.96)
TOP OF STRUCTURE
(1088.63)
TOP OF HEADWALL
(1088.60)⑳
FS/GB
(1086.46)
TOP OF STRUCTURE EXTENSION⑱
JOIN PROP. WALKWAY TO
EX. STRUCTURE EXTENSION
⑩
1093.80
FS/GB
⑥
①EX. 114" SD
1093.80
FS/GB
14.5'
4:1
DAYLIGHT LINE
1093.80
FS/GB
1093.80
FS/GB
⑪
SEE GRADING
ON SHEET 2
⑦
2
N
E
S
W
WEBB
5'
0
5'

ISSUED FOR CONSTRUCTION

UNDERGROUND SERVICE ALERT

Call: TOLL FREE
1-800-227-2600
OR
811

TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:

NGS J700 21 RESET (PID JEV3227)
ELEVATION = 1136.15' (NAVD 88)

DESCRIBED BY NATIONAL GEODETIC SURVEY 1976
1.0 MI EAST FROM ETIWANDA SIDING. 1.0 MILES EAST ALONG THE ATCHISON TOPEKA AND SANTA FE RAILWAY FROM ETIWANDA SIDING, IN TOP THE NORTH END OF WEST CONCRETE ABUTMENT FOR WOODEN RAILROAD BRIDGE, 11.0 FT. NORTH THE NORTH RAIL.

CONVERSION FACTOR FROM NAVD 88 TO NGVD 29 = -2.55 FEET.

BASIS OF BEARINGS:

PER THOMES ALTA:
CALIFORNIA STATE PLANE COORDINATE SYSTEM (CCS83), ZONE 5, NORTH AMERICAN DATUM 1983 (NAD83) BASED LOCALLY ON CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS) "EWPP" AND "DISA" AS BEING NORTH 82°35'10.9055" WEST (BASIS OF BEARINGS) (GRID) AND REPRESENTED HEREON BY NORTH LINE OF SECTION 16, T1S, R6W, SBM AS BEING NORTH 88°57'21" EAST (2010.0 EPOCH).

ERIC T. WATE
NO. C73614
CIVIL
STATE OF CALIFORNIA

ALBERT A. WEBB ASSOCIATES

ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256

PREPARED UNDER THE SUPERVISION OF:

PROFESSIONAL ENGINEER	C 73614 R.C.E. No.	03/25/2024 DATE

REVISIONS

MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE
3			REVISE BASIN HEADWALL FOR INTERIM CONST.		
2	[illegible]	A.A.	REVISED ACCESS ROAD LAYOUT AND GRADING, REVISED LOT LINE AND FENCE		
1	[illegible]	A.A.	REVISED LOT LINE AND PROPOSED FENCE		

BACKBONE STORM DRAIN PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS

David Doublet Digitally signed by David Doublet Date: 2024.04.01 09:37:40 -07'00' 3/26/2024
ASSISTANT DIRECTOR DATE

APPROVALS		INITIAL	DATE
	REVIEWER		3/26/2024
	PM DIVISION MANAGER		3/26/2024
	OPS DIVISION MANAGER	Henry Ma	3/28/2024

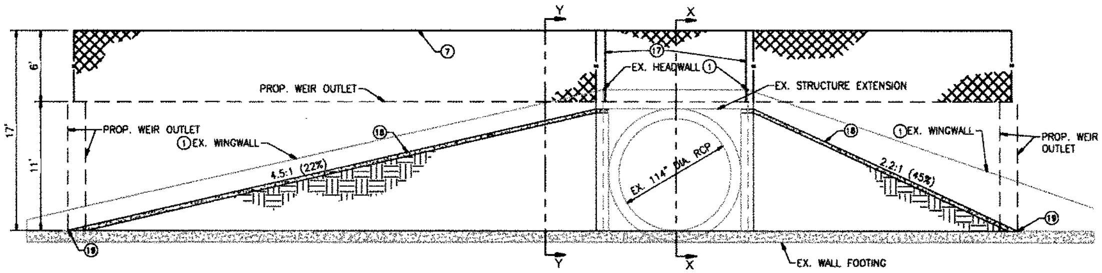
BASIN IMPROVEMENT PLANS

SPEEDWAY COMMERCE CENTER II
GARDING SHEET

DWG NO. -----

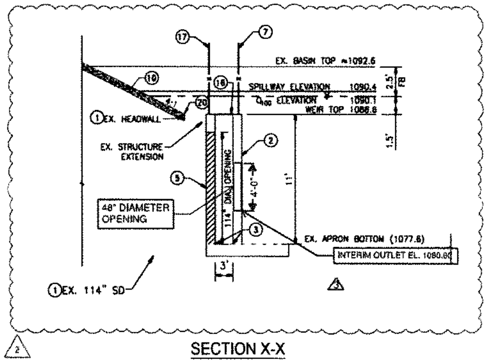
FILE NO. -----

SHEET 3 OF 5


Y
X
17'
6'
11'
⑦
⑰
EX. HEADWALL ①
EX. STRUCTURE EXTENSION
PROP. WEIR OUTLET
PROP. WEIR OUTLET
① EX. WINGWALL
⑱
4.5:1 (22%)
EX. 114" DIA. RCP
⑱
① EX. WINGWALL
PROP. WEIR OUTLET
2.2:1 (45%)
⑲
⑲
EX. WALL FOOTING
Y
X

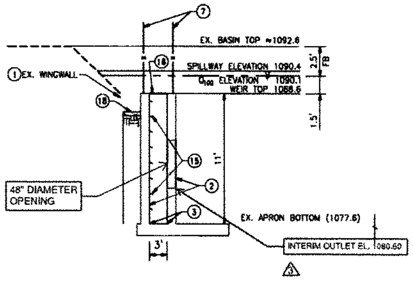
SECTION Z-Z

H:1"=5'
V:1"=5'


⑰
⑦
EX. BASIN TOP ≈1092.6
⑩
⑯
SPILLWAY ELEVATION 1090.4
Q100 ELEVATION 1090.1
WEIR TOP 1088.6
2.5'
FB
1.5'
① EX. HEADWALL
⑳
4:1
EX. STRUCTURE EXTENSION
②
⑤
114" DIA. OPENING
4'-0"
11'
48" DIAMETER OPENING
③
EX. APRON BOTTOM (1077.6)
INTERIM OUTLET EL. 1080.60
3'
3
① EX. 114" SD
2

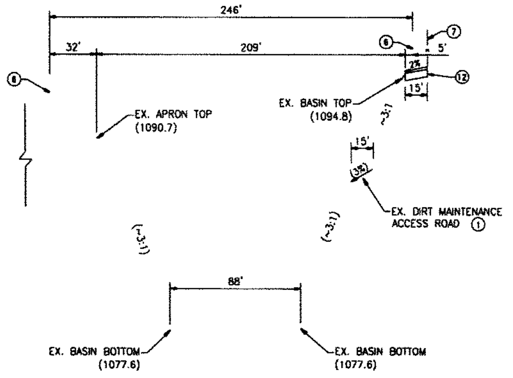
SECTION X-X

H:1"=10'
V:1"=5'


⑦
EX. BASIN TOP ≈1092.6
① EX. WINGWALL
⑯
SPILLWAY ELEVATION 1090.4
Q100 ELEVATION 1090.1
WEIR TOP 1088.6
2.5'
FB
1.5'
⑱
⑮
11'
②
48" DIAMETER OPENING
③
EX. APRON BOTTOM (1077.6)
INTERIM OUTLET EL. 1080.60
3'
3

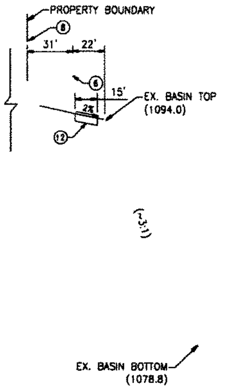
SECTION Y-Y

H:1"=10'
V:1"=5'


246'
32'
209'
5'
⑥
⑦
⑥
2%
⑫
15'
EX. APRON TOP (1090.7)
EX. BASIN TOP (1094.8)
~3:1
15'
(3%)
EX. DIRT MAINTENANCE ACCESS ROAD ①
(~3:1)
(~3:1)
88'
EX. BASIN BOTTOM (1077.6)
EX. BASIN BOTTOM (1077.6)

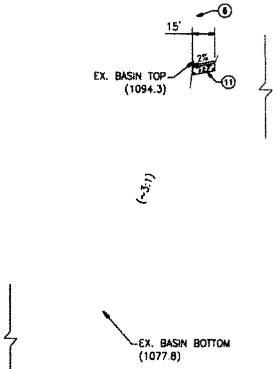
SECTION A-A

H:1"=40'
V:1"=4'


PROPERTY BOUNDARY
⑧
31'
22'
⑥
15'
EX. BASIN TOP (1094.0)
2%
⑫
(~3:1)
EX. BASIN BOTTOM (1078.8)

SECTION B-B

H:1"=40'
V:1"=4'


⑥
15'
EX. BASIN TOP (1094.3)
2%
⑪
(~3:1)
EX. BASIN BOTTOM (1077.8)

SECTION C-C

H:1"=40'
V:1"=4'

CONSTRUCTION NOTES

① PROTECT IN PLACE.

② CONSTRUCT INLET STRUCTURE WITH WEIR ATOP PER DETAIL ON SHEET 5.

③ CONSTRUCT INLET STRUCTURE AND APRON CONNECTION PER DETAIL ON SHEET 5.

⑤ RETROFIT EXISTING APRON TO CONSTRUCT PROPOSED STRUCTUR PER DETAIL ON SHEET 5.

⑥ REMOVE EXISITING FENCE.

⑦ CONSTRUCT 6' CHAIN LINK FENCE PER RCFC & WCD STD. DWG. NO. M801.

⑧ JOIN PROPOSED FENCE TO EXISITING FENCE.

⑩ CONSTRUCT 14.5' WIDE WALKWAY. MATERIAL SHALL BE 9" THICK CLASS II BASE.

⑫ CONSTRUCT 15' WIDE ACCESS ROAD. MATERIAL SHALL BE 9" THICK CLASS II BASE.

⑮ INSTALL STANDARD DROP STEP PER RCFC & WCD STD. DWG. NO. MH259.

⑯ INSTALL GRATE ALONG WEIR OUTLET STRUCTURE TOP PER CALTRANS STD. D77-B.

⑰ INSTALL 6' CHAIN LINK FENCE WITH 14' WIDE DOUBLE DRIVE GATE PER RCFC & WCD STD. DWG. NO. M801.

⑱ CONSTRUCT 3' WIDE WALKWAY. MATERIAL SHALL BE 4" PCC OVER 90% COMPACTED NATIVE.

⑲ JOIN PROPOSED WALKWAY TO EXISTING FINISHED SURFACE.

⑳ JOIN PROPOSED 14.5' WIDE WALKWAY TO EXISTING HEADWALL.

ISSUED FOR CONSTRUCTION

UNDERGROUND SERVICE ALERT
Call TOLL FREE
1-800-227-2600
OR
811
TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:
NGS #700 21 RESET (PID #DX3227)
ELEVATION = 1136.15' (NAVD 88)

DESCRIBED BY NATIONAL GEODETIC SURVEY 1978
1.0 MI EAST FROM ETIWANDA SIDING. 1.0 MILES EAST ALONG THE ATCHISON TOPEKA AND SANTA FE RAILWAY FROM ETIWANDA SIDING, IN TOP THE NORTH END OF WEST CONCRETE ABUTMENT FOR WOODEN RAILROAD BRIDGE, 11.0 FT. NORTH THE NORTH RAIL.

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REGISTERED PROFESSIONAL ENGINEER
ERIC T. HAYS
NO. C73614
CIVIL
STATE OF CALIFORNIA

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ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256

PREPARED UNDER THE SUPERVISION OF:

PROFESSIONAL ENGINEER	R.C.E. No.	DATE
	C 73614	03/25/2024

REVISIONS

MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE
3			REVISE BASIN HEADWALL FOR INTERIM CONST.		
2	[illegible]	AA	REVISED ACCESS ROAD LAYOUT		

BACKBONE STORM DRAIN PLANS APPROVED BY
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS

David Doublet
Digitally signed by David Doublet
Date: 2024.04.01 09:37:40 -07'00'
3/26/2024
ASSISTANT DIRECTOR
DATE

APPROVALS		INITIAL	DATE
	REVIEWER		3/26/2024
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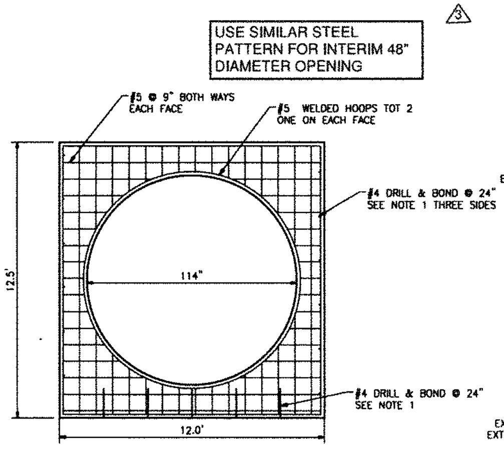
	OPS DIVISION MANAGER	Henry Ma	3/26/2024

BASIN IMPROVEMENT PLANS

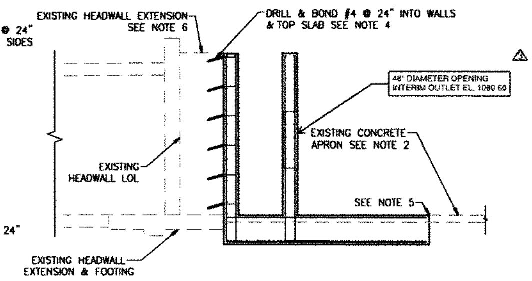
SPEEDWAY COMMERCE CENTER II
DETAIL SHEET

DWG NO. -----
FILE NO. -----
SHEET 4 OF 5

H:\2022\22-0074\DRAWINGS\PLAN SHEETS\22-0074 SD BASIN SHEET.DWG 11/25/2024 12:47:46 PM

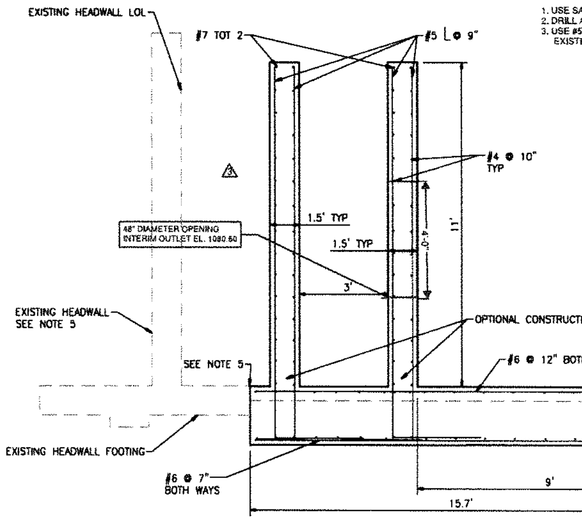

△3
USE SIMILAR STEEL PATTERN FOR INTERIM 48" DIAMETER OPENING
#5 @ 9" BOTH WAYS EACH FACE
#5 WELDED HOOPS TOT 2 ONE ON EACH FACE
#4 DRILL & BOND @ 24" SEE NOTE 1 THREE SIDES
114"
#4 DRILL & BOND @ 24" SEE NOTE 1
12.5'
12.0'

SECTION C-C


EXISTING HEADWALL EXTENSION SEE NOTE 6
DRILL & BOND #4 @ 24" INTO WALLS & TOP SLAB SEE NOTE 4
△3
48" DIAMETER OPENING INTERIM OUTLET EL. 1080.60
EXISTING CONCRETE APRON SEE NOTE 2
EXISTING HEADWALL LOL
SEE NOTE 5
EXISTING HEADWALL EXTENSION & FOOTING

CONNECTION DETAIL

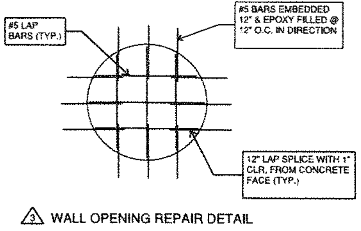
1"=48'


EXISTING HEADWALL LOL
#7 TOT 2
#5 L @ 9"
#4 @ 10" TYP
△3
1.5' TYP
1.5' TYP
4'-0"
11'
3'
48" DIAMETER OPENING INTERIM OUTLET EL. 1080.60
EXISTING HEADWALL SEE NOTE 5
OPTIONAL CONSTRUCTION JOINT
SEE NOTE 5
EXISTING CONCRETE APRON SEE NOTE 2
#6 @ 12" BOTH WAYS
SEE NOTE 5
2'
EXISTING HEADWALL FOOTING
#6 @ 7" BOTH WAYS
9'
3" CLR
15.7'

SECTION A-A

WALL REPAIR CONSTRUCTION NOTES

1. USE SAME CONCRETE MIX THAT WAS USED IN ORIGINAL CONSTRUCTION.
2. DRILL AND BOND #5 BAR IN 12' DEEP HOLE @ 12" ON CENTER EACH DIRECTION.
3. USE #5 LAP BARS WITH 12" SPLICE AT EACH END. LAP BARS 1' OFFSET FROM EXISTING FACE OF CONCRETE.


#5 LAP BARS (TYP.)
#5 BARS EMBEDDED 12" & EPOXY FILLED @ 12" O.C. IN DIRECTION
12" LAP SPLICE WITH 1" CLR. FROM CONCRETE FACE (TYP.)

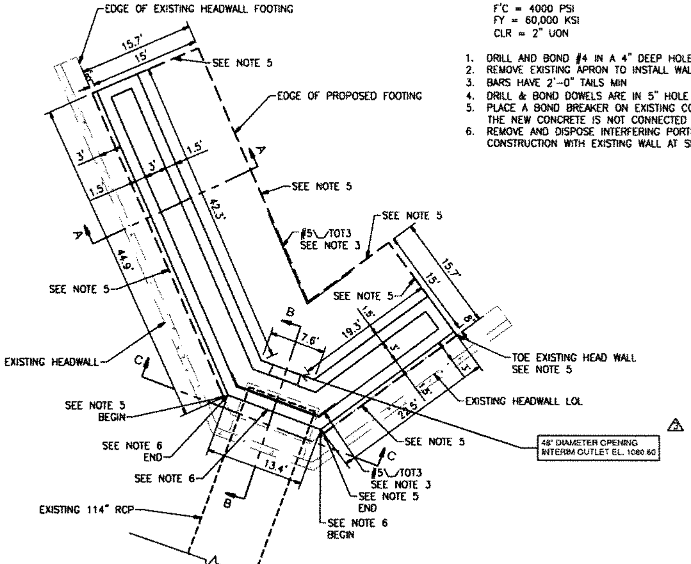
△3 WALL OPENING REPAIR DETAIL

NOTES:

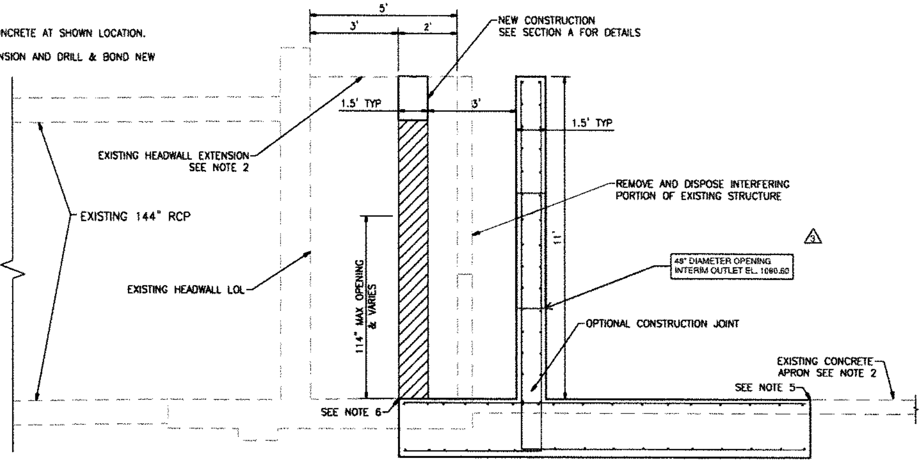
CONCRETE:
F'C = 4000 PSI
FY = 60,000 KSI
CLR = 2" UON

1. DRILL AND BOND #4 IN A 4" DEEP HOLE @ 24" BOTH DIRECTIONS
2. REMOVE EXISTING APRON TO INSTALL WALL FOOTING. EXISTING HEADWALL FOOTING TO REMAIN UNDAMAGED.
3. BARS HAVE 2'-0" TAILS MIN
4. DRILL & BOND DOWELS ARE IN 5" HOLE
5. PLACE A BOND BREAKER ON EXISTING CONCRETE BEFORE PLACING NEW CONCRETE AT SHOWN LOCATION. THE NEW CONCRETE IS NOT CONNECTED TO THE EXISTING CONCRETE.
6. REMOVE AND DISPOSE INTERFERING PORTION OF EXISTING HEAD WALL EXTENSION AND DRILL & BOND NEW CONSTRUCTION WITH EXISTING WALL AT SHOWN LOCATION.

- - - - - DENOTES EXISTING CONRETE STRUCTURE


EDGE OF EXISTING HEADWALL FOOTING
15.7'
15'
SEE NOTE 5
EDGE OF PROPOSED FOOTING
A
3'
3'
1.5'
1.5'
42.3'
SEE NOTE 5
A
44.9'
#5 TOT3 SEE NOTE 3
SEE NOTE 5
SEE NOTE 5
15.7'
15'
SEE NOTE 5
B
7.6'
19.3'
1.5'
3'
1.5'
TOE EXISTING HEAD WALL SEE NOTE 5
EXISTING HEADWALL LOL
EXISTING HEADWALL
C
SEE NOTE 5 BEGIN
SEE NOTE 6 END
SEE NOTE 6
22.5'
SEE NOTE 5
13.4'
C
#5 TOT3 SEE NOTE 3
SEE NOTE 5 END
SEE NOTE 6 BEGIN
B
EXISTING 114" RCP
△3
48" DIAMETER OPENING INTERIM OUTLET EL. 1080.60

PLAN VIEW


5'
3'
2'
NEW CONSTRUCTION SEE SECTION A FOR DETAILS
1.5' TYP
3'
1.5' TYP
EXISTING HEADWALL EXTENSION SEE NOTE 2
REMOVE AND DISPOSE INTERFERING PORTION OF EXISTING STRUCTURE
EXISTING 144" RCP
11'
△3
48" DIAMETER OPENING INTERIM OUTLET EL. 1080.60
EXISTING HEADWALL LOL
114" MAX OPENING & VARIES
OPTIONAL CONSTRUCTION JOINT
EXISTING CONCRETE APRON SEE NOTE 2
SEE NOTE 5
SEE NOTE 6

SECTION B-B

FOR DETAILS NOT SHOWN SEE SECTION A

ISSUED FOR CONSTRUCTION

H:\2023\22-0074\DRAWINGS\PLAN SHEETS\22-0074 SD BASIN TITLE.DWG 3/7/2024 2:11:31 PM Xme

UNDERGROUND SERVICE ALERT

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OR
811

TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:

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REVISIONS

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BACKBONE STORM DRAIN PLANS APPROVED BY
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS

David Doublet Digitally signed by David Doublet Date: 2024.04.01 09:43:05 -07'00' 3/26/2024
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BASIN IMPROVEMENT PLANS

SPEEDWAY COMMERCE CENTER II
DETAIL SHEET

DWG NO. -----
FILE NO. -----
SHEET 5 OF 5