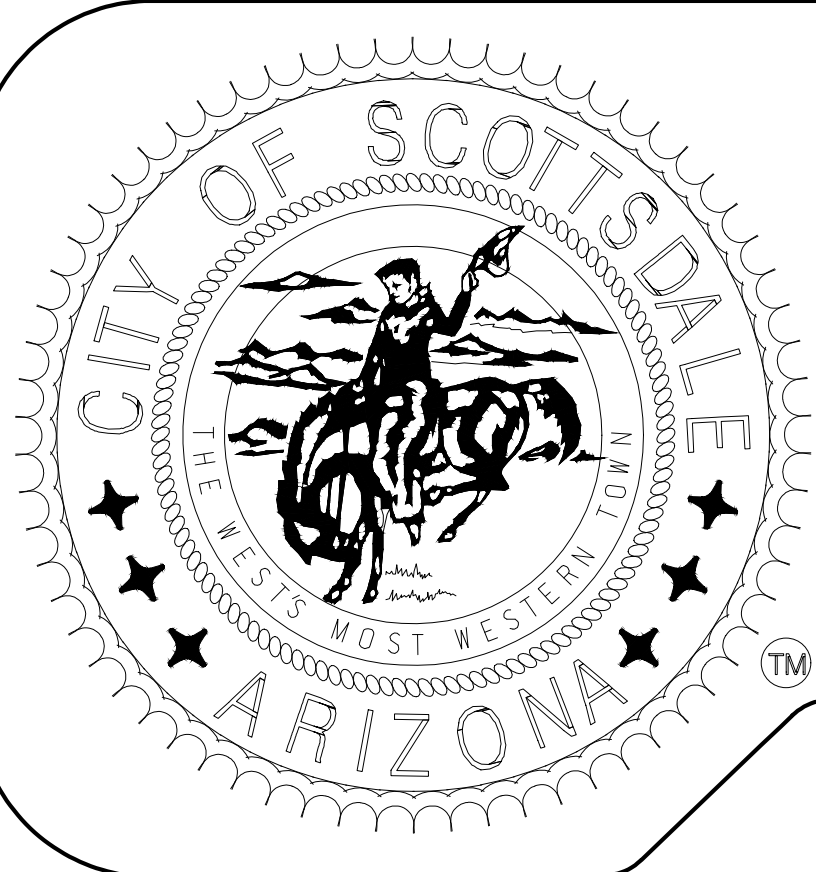


ATTACHMENT B - PLANS



CITY OF SCOTTSDALE

PUBLIC IMPROVEMENTS

FURNISHED AS SUBMITTED

FURNISHED AS NOTED
Per FCD ROW Use Permit 2020P139

REVISE AND RESUBMIT

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
2801 W. DURANGO STREET
PHOENIX, ARIZONA 85009

REVIEW IS ONLY FOR PERFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE JOB SITE FOR INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESS AND/OR TECHNIQUES OF CONSTRUCTION FOR COORDINATION OF THE WORK OF ALL TRADES AND THE SATISFACTORY PERFORMANCE OF HIS WORK.

BY: *Sean Harrison* DATE: 12/27/2022

COUNCIL
DAVID ORTEGA, MAYOR
BETTY JANIK
TAMMY CAPUTI, VICE MAYOR
TOM DURHAM
KATHY LITTLEFIELD
LINDA MILHAVEN
SOLANGE WHITEHEAD
CITY MANAGER
JIM THOMPSON
CITY ATTORNEY
SHERRY SCOTT
CITY CLERK
BEN LANE

"AS-BUILT" CERTIFICATION

I HEREBY CERTIFY THAT THE "AS-BUILT" IMPROVEMENTS AS SHOWN HEREON ARE LOCATED AS NOTED, AND THE LOCATIONS ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR _____ DATE _____

CITY OF SCOTTSDALE

REVIEWED AND RECOMMENDED APPROVAL BY:

PAVING	<i>Roy A. Harrison</i> 7/14/22	STRUCTURES	
GRADING & DRAINAGE	<i>Chasen Ansel</i> 07/14/2022	BUILDING	
WATER & SEWER		PLUMBING	
TRAFFIC		MECHANICAL	
PLANNING IMPROVEMENTS	KP 7/14/22	ELECTRICAL	
PLANNING FACILITIES		FIRE IMPROVEMENTS	<i>Linda Wilson</i> 7/14/2022
LANDSCAPE		FIRE FACILITIES	

No protected native plants will be removed or destroyed during construction. If so, applicant will need to submit native plant inventory to city for review and permit.

Roy A. Harrison 7/14/2022
ENGINEERING COORDINATION MANAGER (OR DESIGNEE) DATE

BUILDING OFFICIAL (OR DESIGNEE) _____ DATE _____

Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA811
Call 811 or click Arizona811.com

olsson
ENGINEER

INDIAN BEND WASH PATH AT CHAPARRAL ROAD

PROJECT NO. 410-SF01A-56047

Solicitation #: IFB-092023-114

NO CONFLICT SIGNATURE BLOCK

Utility	Utility Company	Name of Company Representative	Telephone Number	Date Signed
Cable/Tel/FO	Lumen (CenturyLink)	Kevin Wagner	(815)245-9640	09/16/21
Cable/Tel/FO	COX	Ryan Kann	(623)328-2202	11/05/21
Electric	Salt River Project	Joseph Stenberg	(602)236-6267	09/14/21
Natural Gas	Southwest Gas	Zach Stevenson	(480)730-3855	08/20/21

Engineer's Certification
I Kim Wheeler, as the Engineer of Record for this development, hereby certify that all utility companies listed above have been provided final improvement plans for review, and that all conflicts identified by the utilities have been resolved. In addition, "No Conflict" forms have been obtained from each utility company and are included in this submittal.

Signature *Kim Wheeler* Date 6/17/2022

Maricopa County Environmental Services Department
Water and Waste Management Division

Certificate of Approval to Construct

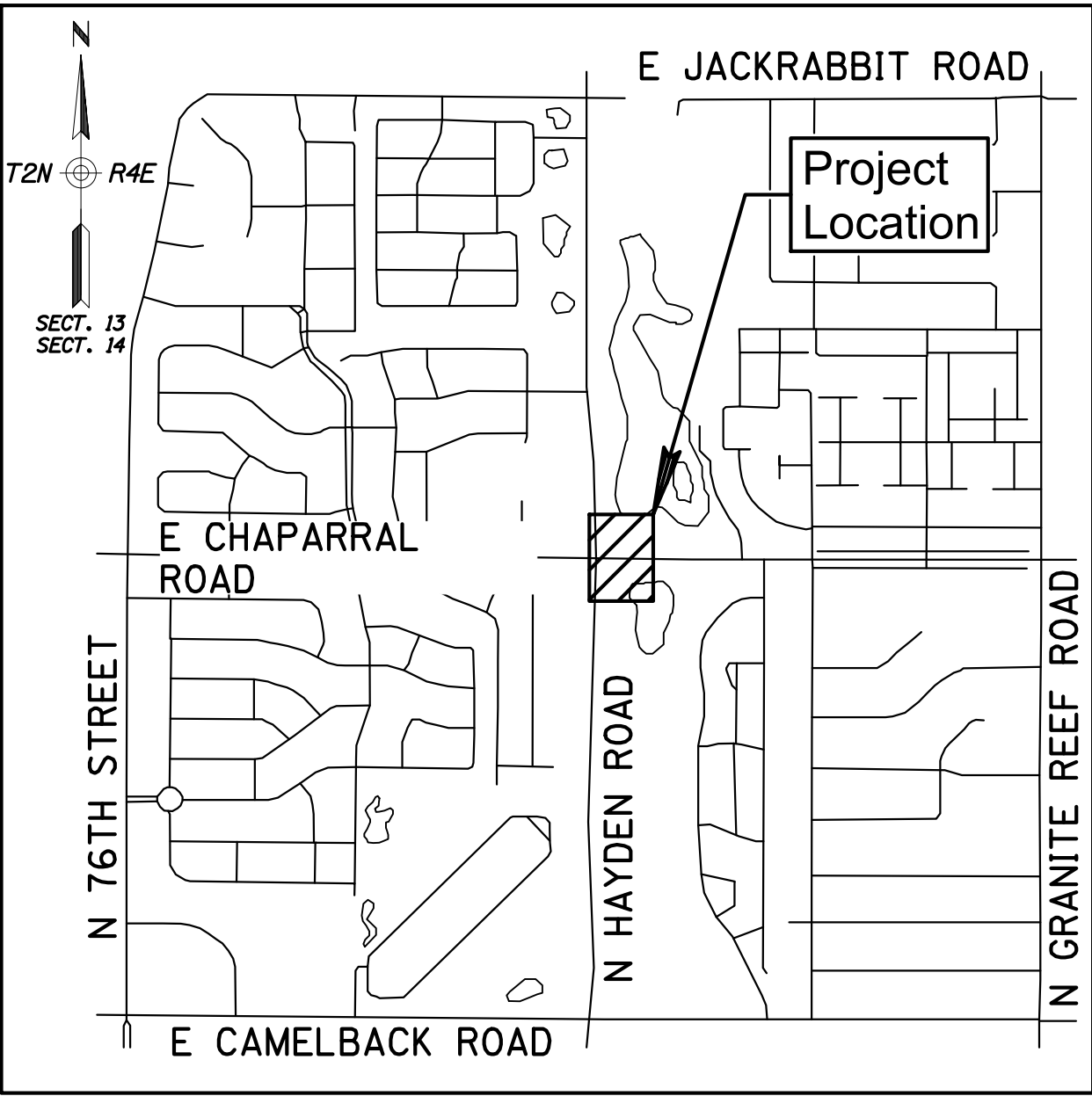
MCESD Approval No. DWR-23-00027

The authorized representative from Maricopa County Environmental Services Department Water and Waste Management Division hereby acknowledge or have acknowledge they have reviewed and approved the design shown by these drawings.

Signature *Samuel* Date 02-16-2023

FLOOD INSURANCE RATE MAP BLOCK (FIRM)

Community Number	Panel #	Panel Date	Suffix	Date of FIRM (Index Date)	FIRM Zone	Base Flood Elevation (in AO Zone use Depth)
045012	09/18/20	M		07/20/21	AE	See Drainage Report



Vicinity Map
N.T.S.

SHEET INDEX

Sht. No.	Dwg. No.	Description
1	G1	COVER SHEET
2	G2	LEGEND, ABBREVIATIONS, & GEN. NOTES
3	G3	QUANTITY SUMMARY & WATER DETAILS
4	G4	TYPICAL SECTIONS
5	G5	KEY MAP
6	G6	GEOMETRIC CONTROL
7-8	C1-C2	PEDESTRIAN PATH PAVING PLAN
9	C3	PEDESTRIAN PATH EAST PAVING PLAN
10-11	C4-C5	DETAILS
12-13	C6-C7	CONCRETE JOINTING PLAN
14-17	D1-D4	GRADING PLANS & STAKING PLAN
18	D5	STORM DRAIN PLAN & PROFILE
19	D6	STAKING COORDINATE TABLES
20-21	D7-D8	SCOUR PROTECTION PLAN
22	W1	WATERLINE RELOCATION PLAN
23	S1	STRUCTURAL NOTES & QUANTITIES
24	S2	UNDERPASS PLAN & ELEVATION
25	S3	RETAINING WALL ELEVATIONS
26	S4	UNDERPASS TYPICAL SECTION
27	SS01	SIGNING & MARKING NOTES
28	SS02	SIGNING & MARKING PLAN
29-32	SS03-SS06	PATHWAY SIGNING & MARKING PLAN
33	TS01	TRAFFIC SIGNAL PLAN
34-35	SL1-SL2	LIGHTING PLANS
36-37	SL3-SL04	LIGHTING DETAILS
38	L1	LANDSCAPE COVER
39	L2	LANDSCAPE PLAN AREA #1
40	L3	LANDSCAPE PLAN AREA #2
41	L4	LANDSCAPE DETAILS
42	L5	IRRIGATION PLAN AREA #1
43	L6	IRRIGATION PLAN AREA #2
44	L7	IRRIGATION DETAILS

BENCH MARKS (COS NAVD '88)

No.	Description
1.	COS CP#4134, IRON PIN IN POTHOLE (12" DEEP), AT THE INTERSECTION OF JACK RABBIT ROAD AND GRANITE REEF ROAD HAVING A RECORD ELEVATION OF 1265.115.
2.	COS CP#4241, BROKEN BCF, AT THE INTERSECTION OF CHAPARRAL ROAD AND GRANITE REEF ROAD HAVING A RECORD ELEVATION OF 1260.020.
3.	HORIZONTAL AND VERTICAL CONTROL IS BASED ON THE CITY OF SCOTTSDALE CP# 4134 CITED IN NO. 1.
4.	BASIS OF BEARING IS THE CITY OF SCOTTSDALE DATUM HOLDING THE BEARING BETWEEN POINTS CP#4134 TO CP#4241 WHICH BEARS SOUTH 00°12'32" WEST.

City of Scottsdale approved plans shall be kept on the job site at all times during the course of construction.

INDIAN BEND WASH PATH AT CHAPARRAL ROAD
PROJECT NO. 410-SF01A-56047

PLOT DATE: 8/24/2023 10:05 AM

DESIGN FILE: P:\2015001-10\ENGINEERING\CADD\PRODUCTION\SHEETS\15001-10T_CS.DWG

DR/STAFF APPROVAL NO.: 250-SA-2021

PLAN REVIEW NO.: 3705-22

GENERAL CONSTRUCTION NOTES FOR CAPITAL PROJECTS

- All Improvement construction shall comply with the 2020 Maricopa County Association of Governments Standard Specifications and Details for Public Works Construction as amended by the latest version of the City of Scottsdale Supplemental Standard Specifications and Details and City of Scottsdale's Design Standards & Policies Manual (DS&PM). If there is a conflict, the latter shall apply. All facilities construction shall comply with the latest building codes as amended and adopted by the City of Scottsdale.
- The engineering designs on these plans are approved by the City in scope and not in detail. If construction quantities are shown on these plans, they are not verified by the City.
- Based on the information submitted on the plans and associated documents, the City has reviewed and found them to be in accordance with the Scottsdale Revised Code and are acceptable for permit issuance. This acceptance by the City does not authorize violations of any applicable code, ordinance or standard as adopted by the Scottsdale Revised Code.
- Approval of the plans by the City is valid for six months. If a permit for the construction has not been issued within six months of review, the plans shall be resubmitted to the City for reapproval.
- Any deviation from the approved plans shall be reviewed and approved by the City prior to that change being incorporated into the project.
- A City Capital Projects Inspector will inspect all work within the City rights-of-way, easements and facilities.
- Any special inspection required shall be in addition to any routine inspection by the City.
- City encroachment and building permits are required for work in public rights-of-way, easements granted for public purposes and facilities. Permits will be issued by the City through the City's One Stop Shop. Copies of all permits shall be retained on-site and shall be available for inspection at all times. Failure to produce the required permits will result in immediate work stoppage until the proper permit documentation is obtained.
- The Contractor shall be responsible for obtaining all necessary permits for salvaging protected native plants prior to the start of construction.
- Wherever excavation is done contact the Blue Stake Center at (602) 263-1100 two working days before excavation is to begin. The Center will see that the location of the underground utility lines is identified for the project.
- All excavation and grading which is not in public rights-of-way or in easements granted for public purposes must conform to Section 1803 and Appendix J of the latest International Code Council as adopted and amended by the City of Scottsdale. A permit for this grading must be secured from the City.
- Thrust restraint, where required, on all City water lines shall be provided using Megalug mechanical joint restraints or City-approved equal.
- Any asphalt mix design used on City projects shall have been approved for that use per Section 5-10 of the City's DS&PM and appear on the "Approved List of Asphalt Mixes" as distributed by the East Valley Asphalt Committee (EVAC).
- The Contractor shall be responsible to remove and replace, at no additional cost to the City, any and all pavement, sidewalk, curb and gutter, drainage structures, etc. outside the pay limit that are damaged due to their activities on the project. This includes, but is not limited to, the removal and replacement of newly cracked roadway infrastructure, the removal and replacement of existing cracked roadway infrastructure where the cracks have been enlarged due to the Contractor's operations, the removal and replacement of deformed roadway infrastructure. All sawcuts used for the removal of these items shall be perpendicular and parallel to the centerline controlling that item, or at the direction of the City's Capital Projects Inspector.
- All Capital Improvement Projects shall meet the procedures and standards for the use of temporary/security fencing around the perimeter of construction sites, as defined in the City's Zoning Ordinance, Article VII, Section 7.700.

GENERAL UTILITY NOTES

- Contractor is advised that the location, number, and type of utilities shown on these plans and specifications are only as accurate as the best information available from public utilities, owners, and users at the time these plans and specifications were prepared. Underground utilities may be present on this project which were not disclosed to the engineer. No representation is made that the utility locations indicated on these plans are accurate, complete, or exclusive. Contractor is advised to undertake their own investigation of existing conditions before submitting a proposal on this project. The contractor is responsible for the cost of all test pits or other pre-construction investigation of underground utilities or structure. Pursuant to Ariz. Rev. Stat. 40-360.21, the contractor must contact "Blue Stake" at 602-263-1100 or the appropriate public utility for appurtenances prior to construction.
- By submitting a proposal on this project, contractor is representing that they have considered the potential impact of temporary or permanent relocation of existing underground utilities located with the project on their costs, and they have included in their proposals the cost of finding, protecting, and relocating all existing utilities within the project. No additional compensation or damages will be paid for any subcontractor due to conflicts with existing utilities; regardless of whether or not those utilities are indicated on the plans and specifications for this project.
- The sole and exclusive remedy for any cost, hindrance, or delay assistance in locating underground facilities, lines, and caused by any utilities located within the project (whether or not indicated on the plans and specifications) shall be an extension of the contract time; the need or duration of which shall be determined by the owner at its sole discretion.

MARICOPA COUNTY ENVIRONMENTAL SERVICES NOTES

- In accordance with A.A.C.R 18-4-213B, all materials added after January 1, 1993 which may come into contact with drinking water shall conform to National Sanitation Foundation standards 60 and 61.
- All valves shall conform to AWWA Standards AWWA C-600 or C-603. (MAG 610.7 & 630/MAG Detail 391-1 & 391-2).

ABBREVIATIONS

@	At
ABC	Aggregate Base Course
AC	Asphalt Concrete
ACP	Asbestos Cement Pipe
AP	Angle Point
BVCS	Begin Vertical Curve Station
BVCE	Begin Vertical Curve Elevation
℄	Centerline
Calc	Calculated
C&G	Curb & Gutter
CJ	Construction Joint
COS	City Of Scottsdale
Comm	Communications
Crn	Corner
Det	Detail
Dkt	Docket
Dwg	Drawing
E	East
Elev	Elevation
EVCS	End Vertical Curve Station
EVCE	End Vertical Curve Elevation
Exst	Existing
F/C	Face Of Curb
G	Gas
G	Gutter
GB	Grade Break
Grnd	Ground
Horiz	Horizontal
Inv	Invert
kV	Kilovolt
Loc	Located
LVC	Length of Vertical Curve
MAG	Maricopa Association Of Governments
MCR	Maricopa County Recorder
N	North
No	Number
NW	Northwest
OHE	Overhead Electric
PC	Point of Curvature
PCC	Point of Changing Curvature
PCCC	Portland Concrete Cement Pavement
PI	Point of Intersection
POB	Point of Beginning
POE	Point of Ending
PRC	Point of Reverse Curvature
Proj	Project
PSI	Pounds Per Square Inch
Pt	Point
PT	Point of Tangency
PVC	Point of Vertical Curve
PVI	Point of Vertical Intersection
PVT	Point of Vertical Tangent
R/W	Right-Of-Way
R	Range
RD	Road
RT	Right
S/W	Sidewalk
S	Section
S	Slope
S	South
Sht	Sheet
SS	Sanitary Sewer
Sta	Station
Std	Standard
T	Township
TC	Top Of Curb
TD	Turn Down
Typ	Typical
UGE	Underground Electric
VCP	Vitrified Clay Pipe
Vert	Vertical
W	Water
W	West

LEGEND

	Construction
	Section Line
	Existing Right-Of-Way
	Existing Easement
	Existing Natural Gas
	Existing Water (≤12")
	Existing Sanitary Sewer (≤12")
	Existing Storm Drain (≤12")
	Existing Storm Drain (>12")
	Existing Overhead Electric/Television
	Existing Overhead Electric
	Existing Underground Electric
	Existing Curb & Gutter
	Existing Ribbon Curb
	Existing Fence
	Existing Wall
	Gutter Flowline
	Grading Cut
	Grading Fill
	Existing Water Valve
	Existing Sewer Manhole
	Existing Tree (Deciduous)
	Existing Tree (Palm)
	Existing Tree (Coniferous)
	Existing Traffic Signal Pole
	Existing Traffic Pedestrian Pole
	Existing Sign
	Existing Traffic Camera
	Existing Traffic Junction Box
	Existing Traffic Control Box
	Existing Electric Junction Box
	Existing Light Pole
	Existing Electric Pole
	Existing Electric Meter
	Existing Irrigation Control Valve
	Existing Drywell
	New Water Valve
	Existing Concrete
	Existing Riprap
	New Concrete Pavement
	New Asphalt Pavement (PSS No. 1)
	New Riprap
	New Asphalt Pavement (PSS No. 2)

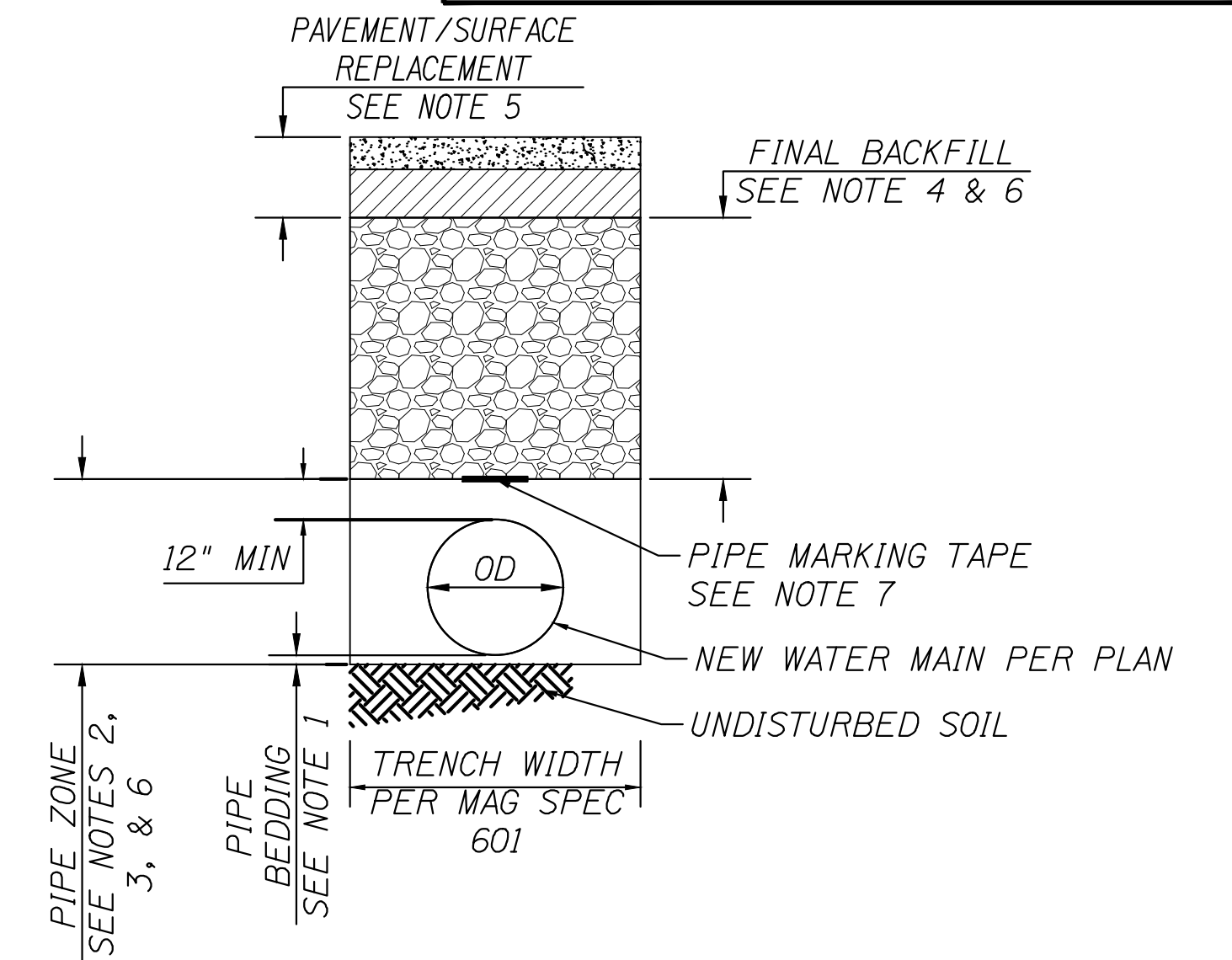
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ENGINEER		PUBLIC WORKS
		CAPITAL PROJECT MANAGEMENT
7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE: LEGEND, ABBREVIATIONS, & GEN. NOTES		
PROJECT TITLE: INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE	DESIGNED	DATE
HORIZ. -	KB	08/23
VERT. -	KR	AS-BUILT
BID NO.	PROJECT NO.	
	410-SF01A-56047	
SHT.	2 OF 44	
G2		

Civil & Waterline Quantity Summary - Removals

Bid Item	Item Description	Unit	C1	C2	C3	C4	C5	D5	D7	D8	S1	W1	Total
336301	PAVEMENT REPLACEMENT, COS 2200	SY	0	0	0	0	0	0	0	0	0	72	72
350041	REMOVE CURB & GUTTER	LF	19	0	0	0	0	0	0	0	0	30	49
350042	REMOVE CURB, RIBBON CURB	LF	142	0	0	0	0	0	0	0	0	10	152
350061	REMOVE CONCRETE SIDEWALK, DRIVEWAYS & SLABS	SF	4986	6028	1023	0	0	0	0	0	0	51	12088
350321	REMOVE GROUTED RIPRAP/GUNITÉ	SY	84	0	810	0	0	0	0	0	0	0	894
350713	REMOVE (ACP WATER LINE)	LF	0	0	0	0	0	0	0	0	0	137	137

Civil & Waterline Quantity Summ

Bid Item	Item Description	Unit	C1	C2	C3	C4	C5	D5	D7	D8	S1	W1	Total
206001	STRUCTURAL EXCAVATION	CY	0	0	0	0	0	0	0	0	930	0	930
206101	STRUCTURAL BACKFILL	CY	0	0	0	0	0	0	0	0	265	0	265
210001	BORROW	CY	3900										3900
211001	FILL	CY	200										200
220401	PLAIN RIPRAP	CY	0	0	0	0	0	0	69	0	0	0	69
220501	GROUTED RIPRAP (D=18")	CY	0	0	0	0	0	6	635	85	0	0	726
301201	SUBGRADE PREPARATION	SY	1065	630	460	0	0	0	0	0	0	0	2155
321261	PAVEMENT SECTION NO. 1 (7.5" AC ON 11" ABC)	SY	388	0	0	0	0	0	0	0	0	0	388
321263	PAVEMENT SECTION NO. 2 (3" AC ON ABC, THICKNESS VARIES)	SY	140	0	0	0	0	0	0	0	0	0	140
340001	VERT CURB & GUTTER, MAG 220 TYPE "A"	LF	132	0	0	0	0	0	0	0	0	30	162
340005	CURB & GUTTER (TRANSITION VERTICAL CURB & GUTTER TO RIBBON CURB)	LF	10	0	0	0	0	0	0	0	0	0	10
340021	RIBBON CURB, MAG 220 TYPE "B"	LF	18	0	0	0	0	0	0	0	0	10	28
340050	CURB OPENING W/ CONCRETE APRON	EA	2	0	0	0	0	0	0	0	0	0	2
340122	CONC TURN DOWN EDGE (D=2.5')	LF	0	0	0	0	0	0	211	0	0	0	211
340205	CONCRETE SIDEWALK, MAG 230 (5" THICK)	SF	2250	0	415	0	0	0	0	0	0	51	2716
340217	CONCRETE MULTI-USE PATH, COS 2283 (MOD, 6" THICK)	SF	722	4502	800	0	0	0	0	0	0	0	6024
340218	CONC MULTI-USE PATH, COS 2283 (4" THICK)	SF	2800	1166	3000	0	0	0	0	0	0	0	6966
340276	SIDEWALK RAMP (COS 2241)	EA	1	0	0	0	0	0	0	0	0	0	1
340277	SIDEWALK RAMP (DETAIL PER PLANS)	EA	0	1	0	0	0	0	0	0	1	0	1
345002	ADJUST VALVE FRAME, COVER PER 2270 & FRAME PER MAG 391	EA	2	0	0	0	0	0	0	0	0	0	2
505045	CATCH BASIN, MAG 535; (COS 2535 GRATE)	EA	0	0	0	0	0	2	0	0	0	0	2
505501	REINFORCING STEEL	LB	0	0	0	835	1950	0	0	0	53540	0	56325
505606	STRUCTURAL CONCRETE CL A 3000psi	CY	0	0	0	11	20	0	0	0	0	0	31
505608	STRUCTURAL CONCRETE CL AA 4000psi	CY	0	0	0	0	0	0	0	0	236	0	236
505822	CONCRETE RETAINING WALL (ADOT SD 7.01 & ADOT SPEC 914)	SF	0	0	0	0	0	0	0	0	1172	0	1172
520009	HANDRAIL (COS 2508, 42")	LF	0	0	0	43	56	0	0	0	148	0	247
520010	HANDRAIL (COS 2508, 56")	LF	0	83	0	0	0	0	0	0	0	0	83
610308	8" DIP WATER LINE	LF	0	0	0	0	0	0	0	0	0	253	253
610831	CONNECT WATERLINE TO MAIN	EA	0	0	0	0	0	0	0	0	0	2	2
610841	CURB STOP, MAG 390, TYPE A	EA	0	0	0	0	0	0	0	0	0	1	1
618052	15" HDPE	LF	0	0	0	0	0	51	0	0	0	0	51
630308	8" GATE VALVE, B & C, MAG 391, TYPE C	EA	0	0	0	0	0	0	0	0	0	1	1
630312	12" GATE VALVE, B & C, MAG 391, TYPE C	EA	0	0	0	0	0	0	0	0	0	1	1
630602	2" AIR RELEASE/VACUUM VALVE, COS 2348	EA	0	0	0	0	0	0	0	0	0	2	2



NOTES:

- PIPE BEDDING SHALL BE AT LEAST 4 INCHES THICK OR 1/2 THE O.D. OF THE PIPE, WHICHEVER IS GREATER.
- PIPE ZONE HAUNCHING SHALL BE IN ACCORDANCE WITH COS SUPP SPEC 601.4.3.
- PIPE ZONE INITIAL BACKFILL SHALL BE IN ACCORDANCE WITH COS SUPP SPEC 601.4.4.
- FINAL BACKFILL MATERIAL PER COS DTL 2201.
 - CUT SLOPES SHALL NOT EXCEED 2H:1V
 - TRENCHES AND CUT SLOPES SHALL BE SHORED AND/OR STABILIZED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND OSHA REGULATIONS.
- FINISHED GRADE SURFACE REPLACEMENT PER COS DTL 2201.
 - FOR TYPE A PAVEMENT REPLACEMENT, REFER TO ROADWAY PLANS FOR STRUCTURAL SECTION.
- WHERE COVER IS LESS THAN THE MINIMUM, REQUIRED BY COS DTL 2201, OR WHERE DIRECTED BY THE ENGINEER, THE PIPE ZONE SHALL BE 1/2-SACK CLSM PER MAG SPEC 728.
- PIPE MARKING TAPE FOR POTABLE WATER LINES SHALL BE IN ACCORDANCE WITH COS SUPP SPEC 601.3.6.

W1 PIPE TRENCH DETAIL
SCALE: NTS

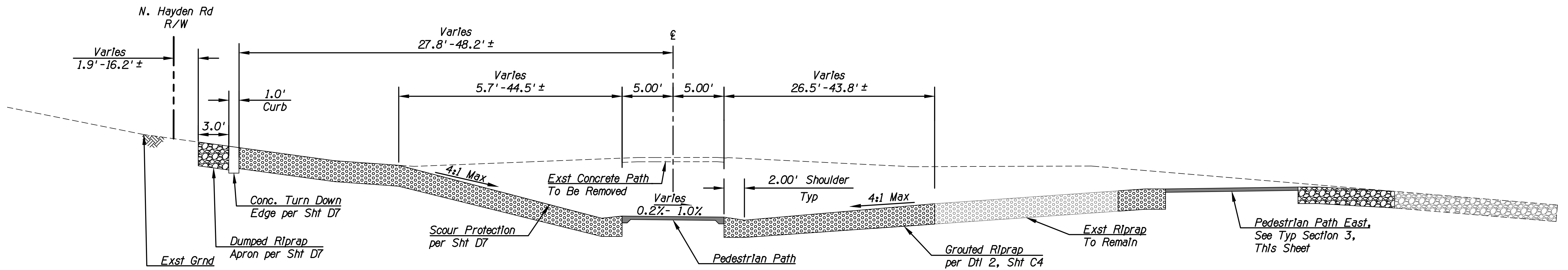
Misc. Work Summary - Removals & Construction

Item Description	Unit	C1	C2	W1	Total
REMOVE & SALVAGE TRASH CAN	EA	2	1	0	3
REMOVE & SALVAGE EXERCISE EQUIPMENT	EA	0	1	0	1
REMOVE & SALVAGE PARK SIGN	EA	2	0	0	2
REMOVE & SALVAGE BENCH	EA	0	3	0	3
REMOVE & SALVAGE PLAQUE	EA	1	2	0	3
INSTALL SALVAGED BENCH	EA	0	3	0	3
INSTALL SALVAGED EXERCISE EQUIPMENT	EA	0	1	0	1
INSTALL SALVAGED TRASH CAN	EA	1	2	0	3
INSTALL SALVAGED PARK SIGN	EA	2	0	0	2
REMOVE & REPLACE 12" ACP WATER LINE WITH DIP	LF	0	0	16	16
SLURRY FILL EXISTING 8" ACP WATER LINE	LF	0	0	84	84

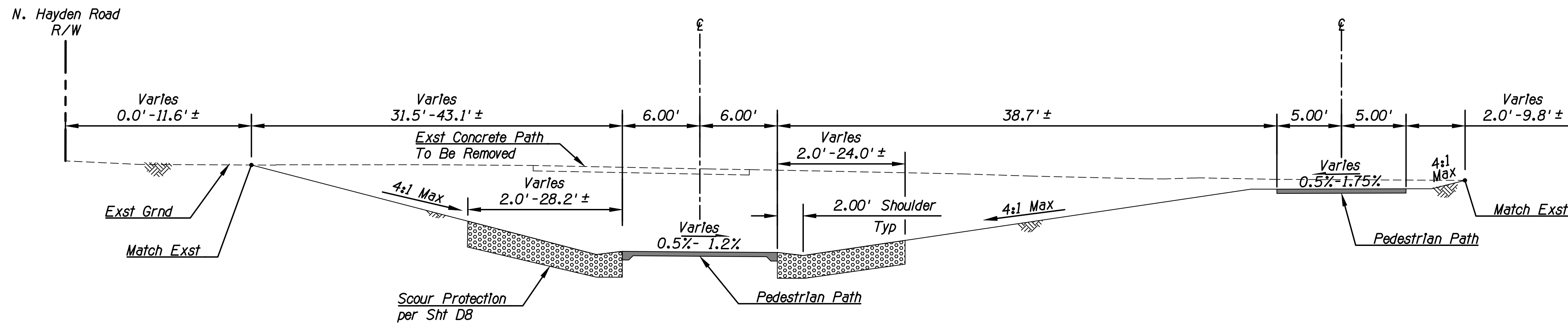
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ENGINEER		
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SHEET TITLE: QUANTITY SUMMARY & WATER DETAILS		
PROJECT TITLE: INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE	DESIGNED	DATE
HORIZ. -	KB	08/23
VERT. -	KR	AS-BUILT
BID NO.	SHT. G3	
410-SF01A-56047	3 OF 44	

PLOT DATE: 8/24/2023 9:48 AM

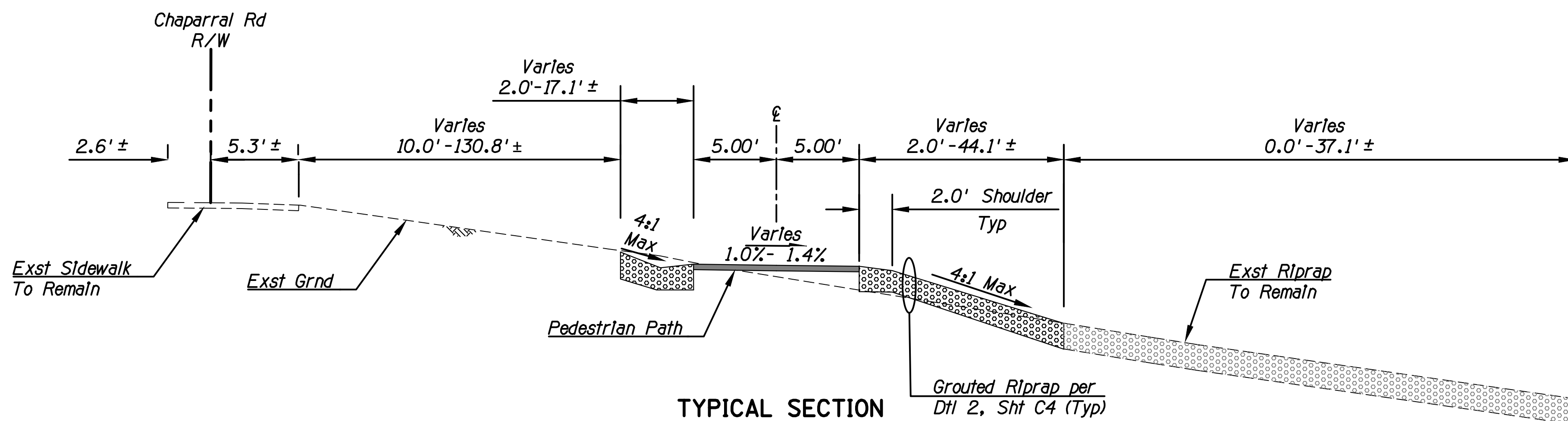
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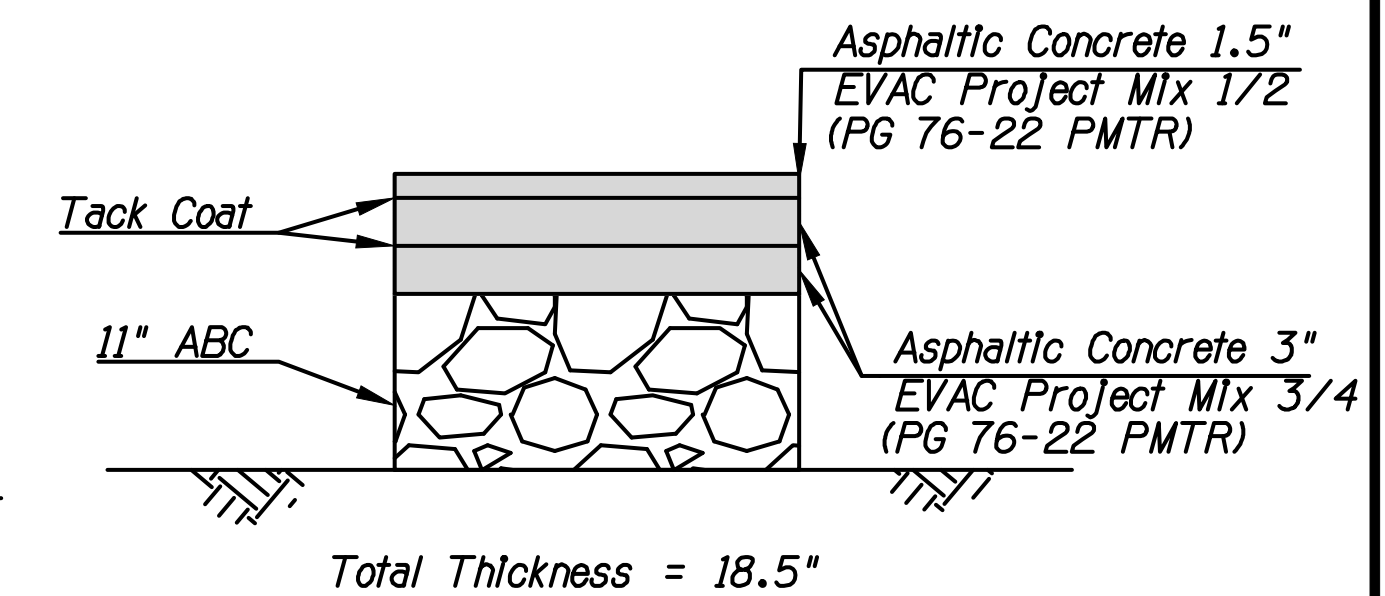
TYPICAL SECTION
Pedestrian Path
Sta 10+00.00 to Sta 12+27.69



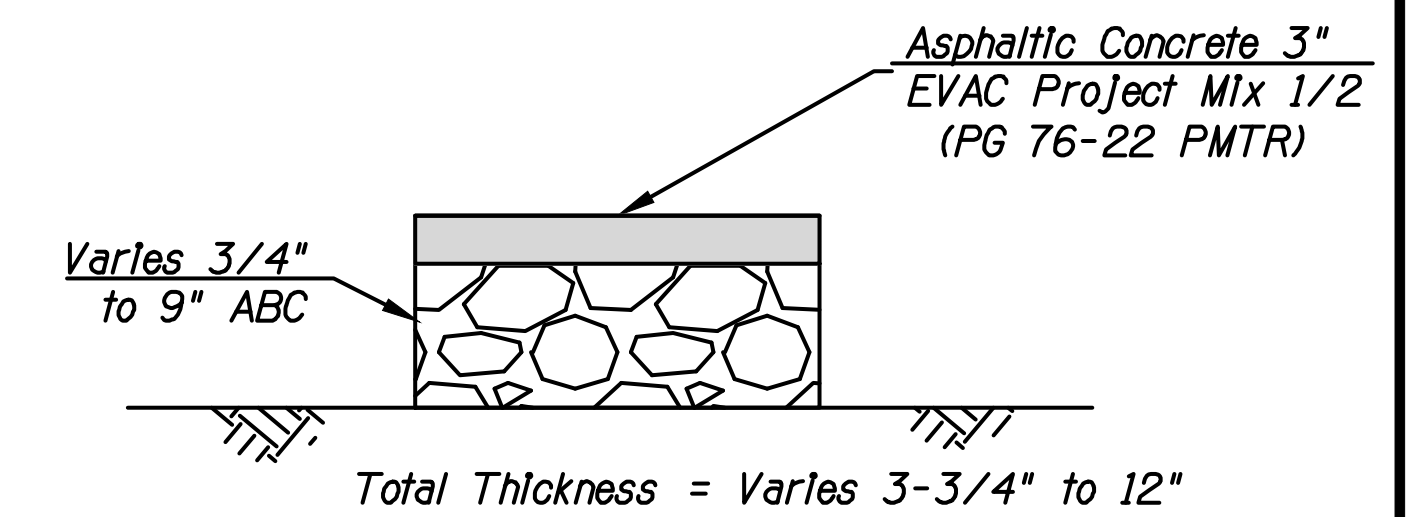
TYPICAL SECTION
Pedestrian Path
Sta 13+41.69 to Sta 16+01.87



TYPICAL SECTION
Pedestrian Path East
Sta 30+00.00 to Sta 33+63.79



PAVEMENT STRUCTURAL SECTION NO. 1

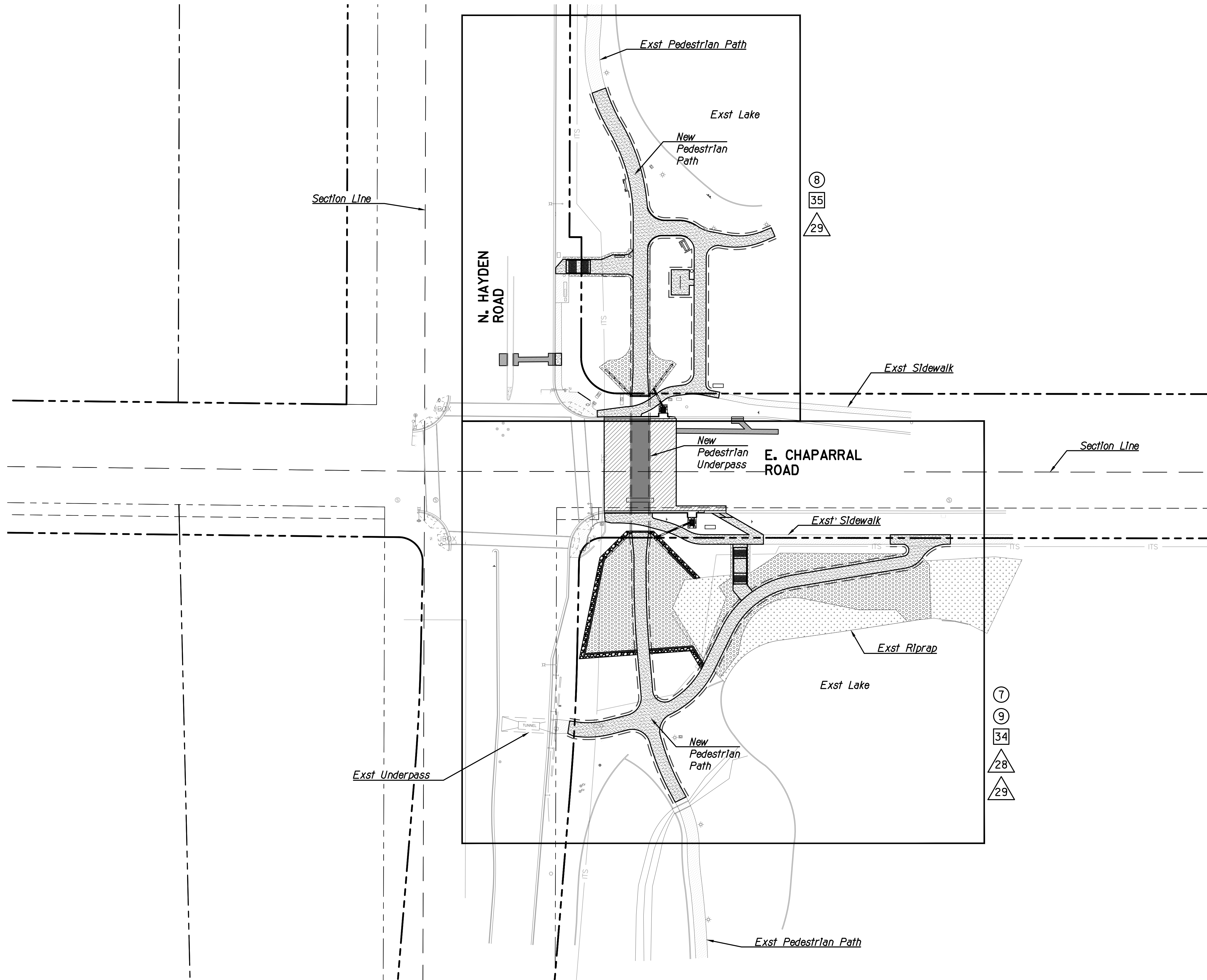


PAVEMENT STRUCTURAL SECTION NO. 2

Notes:
1. See Grading Plans For Additional Sections

DATE	REVISION	BY
ENGINEER		
		PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251
SHEET TITLE	TYPICAL SECTIONS	
PROJECT TITLE	INDIAN BEND WASH PATH AT CHAPARRAL ROAD	
SCALE	DESIGNED	DATE
HORIZ. -	KB	08/23
VERT. -	KR	AS-BUILT
	BID NO.	SHT. G4
	PROJECT NO. 410-SF01A-56047	4 OF 44

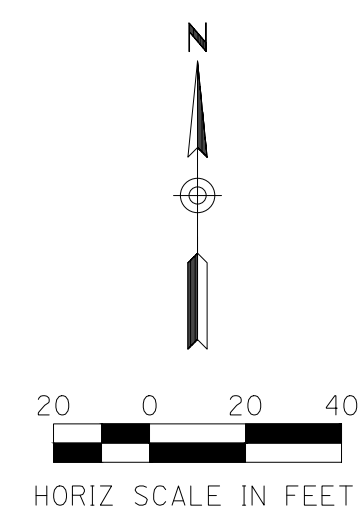
3705-22



LEGEND

- Paving Plan
- Park Lighting Plan
- Signing & Marking Plan

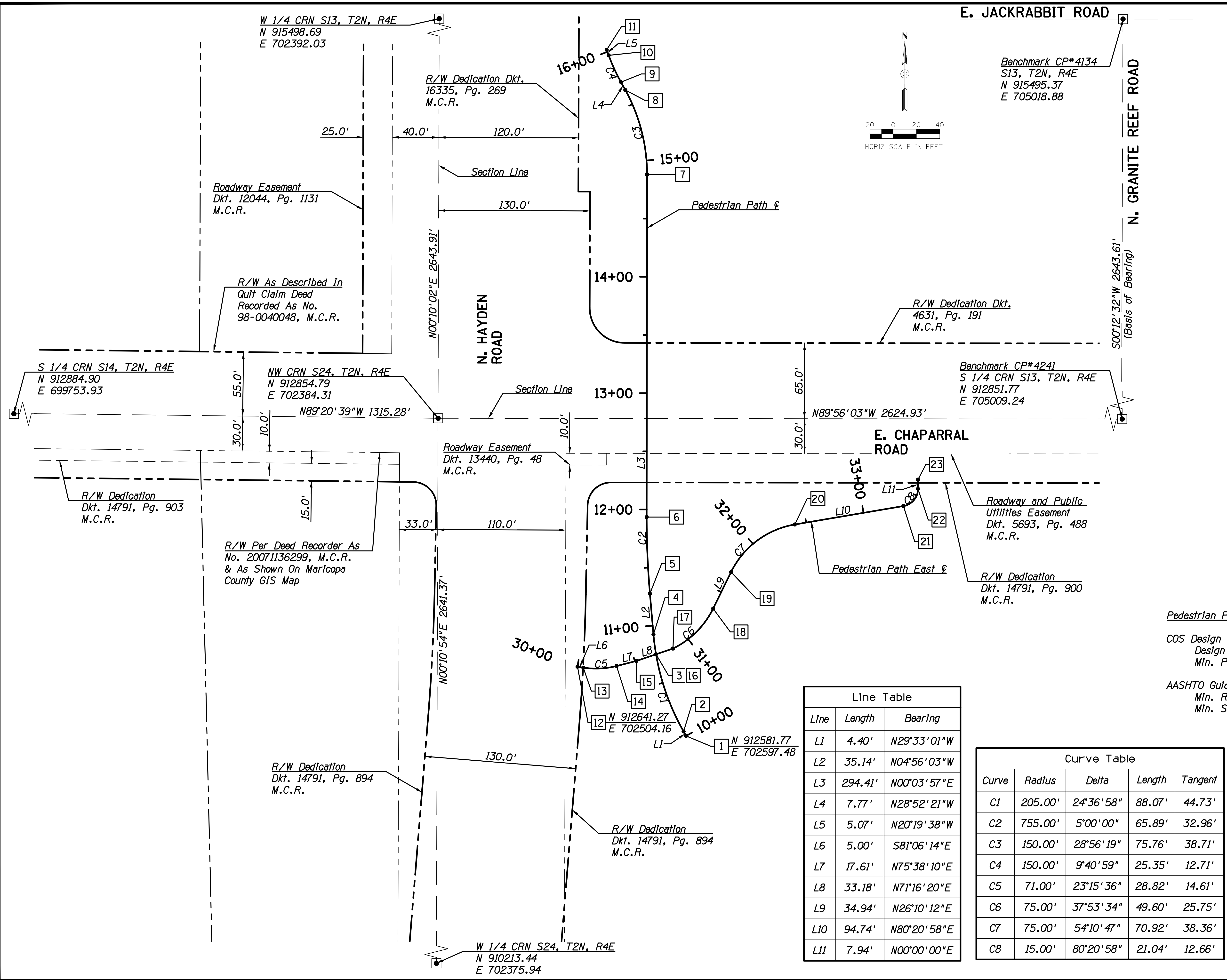
Note:
See Landscape Plans for
Landscape Key Map



DATE	REVISION	BY
ENGINEER		
PUBLIC WORKS		CAPITAL PROJECT MANAGEMENT
7447 E. INDIAN SCHOOL RD.		SCOTTSDALE, ARIZONA 85251
SHEET TITLE: KEY MAP		
PROJECT TITLE: INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE	DESIGNED	DATE
HORIZ. 1"=40'	KB	08/23
VERT. -	DRAWN	AS-BUILT
	KR	
BID NO.	SHT.	
410-SF01A-56047	G5	5 OF 44

PLOT DATE: 8/24/2023 9:49 AM

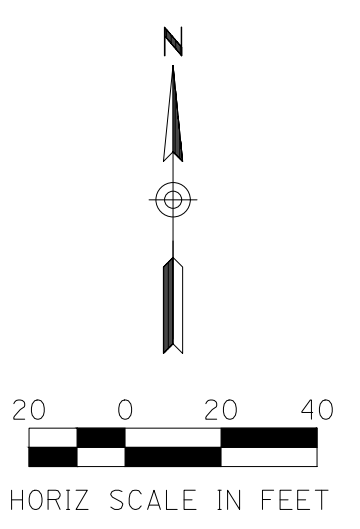
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E. JACKRABBIT ROAD

N. GRANITE REEF ROAD

N. HAYDEN ROAD



Benchmark CP#4134
S13, T2N, R4E
N 915495.37
E 705018.88

Benchmark CP#4241
S 1/4 CRN S13, T2N, R4E
N 912851.77
E 705009.24

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Point Table			
Pt.	Station	Alignment	Type
1	10+00.00	Path	POB
2	10+04.40	Path	PC
3	10+75.21	Path	PI
4	10+92.48	Path	PT
5	11+27.62	Path	PC
6	11+93.50	Path	PT
7	14+87.91	Path	PC
8	15+63.68	Path	PT
9	15+71.44	Path	PC
10	15+96.79	Path	PT
11	16+01.87	Path	POE
12	30+00.00	Path East	POB
13	30+05.00	Path East	PC
14	30+33.82	Path East	PT
15	30+51.43	Path East	PI
16	30+69.23	Path East	PT
17	30+84.61	Path East	PC
18	31+34.21	Path East	PT
19	31+69.15	Path East	PC
20	32+40.08	Path East	PT
21	33+34.82	Path East	PC
22	33+55.85	Path East	PT
23	33+63.79	Path East	POE

Pedestrian Pathway Design Criteria:

COS Design Standards and Policy Manual, 2018
Design Speed = 20 mph
Min. Path Width = 10 ft

AASHTO Guide for the Development of Bicycle Facilities, 2012
Min. Radius = 74 ft
Min. Stopping Sight Distance = 137 ft

Line Table		
Line	Length	Bearing
L1	4.40'	N29°33'01"W
L2	35.14'	N04°56'03"W
L3	294.41'	N00°03'57"E
L4	7.77'	N28°52'21"W
L5	5.07'	N20°19'38"W
L6	5.00'	S81°06'14"E
L7	17.61'	N75°38'10"E
L8	33.18'	N71°16'20"E
L9	34.94'	N26°10'12"E
L10	94.74'	N80°20'58"E
L11	7.94'	N00°00'00"E

Curve Table				
Curve	Radius	Delta	Length	Tangent
C1	205.00'	24°36'58"	88.07'	44.73'
C2	755.00'	5°00'00"	65.89'	32.96'
C3	150.00'	28°56'19"	75.76'	38.71'
C4	150.00'	9°40'59"	25.35'	12.71'
C5	71.00'	23°15'36"	28.82'	14.61'
C6	75.00'	37°53'34"	49.60'	25.75'
C7	75.00'	54°10'47"	70.92'	38.36'
C8	15.00'	80°20'58"	21.04'	12.66'



DATE	REVISION	BY
ENGINEER		
		PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251
SHEET TITLE		
GEOMETRIC CONTROL INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE	DESIGNED	DATE
HORIZ. 1"=40'	KB	08/23
VERT. -	KR	AS-BUILT
PROJECT NO.		SHT.
410-SF01A-56047		G6
6 OF 44		

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PLOT DATE: 8/24/2023 9:51 AM

DESIGN FILE: P:\2015001-10\ENGINEERING\CADD\PRODUCTION\SHEETS\15001-10T_PP01.DWG

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CONSTRUCTION NOTES

REMOVAL & RELOCATION NOTES

Description	Unit	Quan
1 Remove Curb, Ribbon Curb	LF	142
2 Sawcut & Remove Concrete Sidewalk, Pathway, & Slabs	SF	4986
3 Remove Grouted Riprap	SY	84
5 Remove & Salvage Trash Can (Misc)	EA	2
7 Remove Curb, Vertical Curb & Gutter	LF	19
9 Remove & Salvage Park Sign (Misc)	EA	2
11 Remove & Salvage Plaque (Misc) See Landscape Plans	EA	1

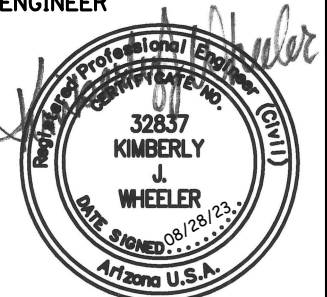

Description	Unit	Quan
1 Subgrade Preparation	SY	1065
2 7.5" AC Pavement Over 11" ABC per PSS No. 1	SY	388
3 3" AC Pavement Over ABC, Varied Thickness, per PSS No. 2	SY	140
4 Type B Ribbon Curb per MAG 220	LF	18
5 Concrete Underpass Structure per Structural Plans	-	-
6 Retaining Wall per Structural Plans	-	-
7 Concrete Path per Dtl 3, Sht C4 and Typ. Sections, Sht G4 4" Thick	SF	2800
6" Thick	SF	679
8 Concrete Encasement per Dtl 5, Sht C5	-	-
10 Concrete Path per MAG 230, 5" Thick	SF	2250
13 Install Salvaged Trash Can (Misc)	EA	1
14 Grouted Riprap per Scour Protection Plans	-	-
15 Type A Vertical Curb per MAG 220	LF	132
21 Curb Opening per Dtl 6, Sht C5	EA	2
22 Install Salvaged Park Sign (Misc)	EA	2
24 Transition Vertical Curb & Gutter to Ribbon Curb	LF	10
26 Bicycle Entrance Sidewalk Ramp per COS 2241	EA	1
6" Thick Concrete Path	SF	43

CONSTRUCTION NOTES

Description	Unit	Quan
29 Adjust Valve Frame, Cover Per COS 2270 & Frame Per MAG 391	EA	2
34 20' Sidewalk Taper to Match Underpass Width (Typical)	NPI	-


GENERAL NOTES

- [P] Protect In Place
- 1. See Landscaping Plans for Landscaping Removals & Improvements.
- 2. See Signing & Striping Plans for Signing Removals & Improvements.
- 3. See Sht W1 for Water Line Relocation.
- 4. See Sht D5 for Storm Drain Improvements.
- 5. See Special Provisions for Clearance Requirements.
- 6. See Sht D1 for Chaparral Park Grading Plan.
- 7. See Shts D2-D3 for Camelback Park Grading Plan.
- 8. See Sht D4 for Chaparral Rd Grading Plan.

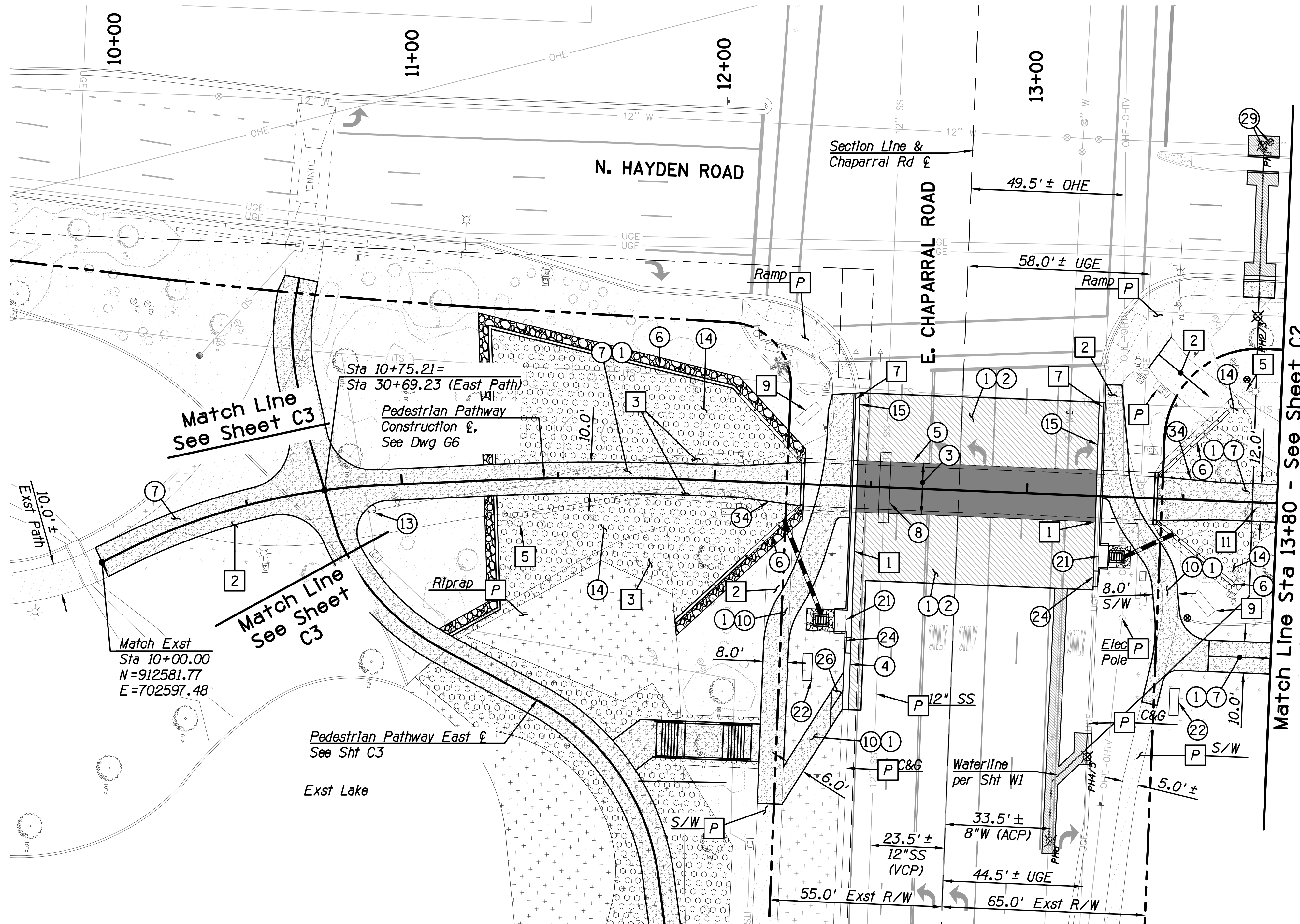
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ENGINEER	 	
	PUBLIC WORKS CAPITAL PROJECT MANAGEMENT	
	7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251	

SHEET TITLE PEDESTRIAN PATH PAVING PLAN			
PROJECT TITLE INDIAN BEND WASH PATH AT CHAPARRAL ROAD			
SCALE HORIZ. 1"=20'	DESIGNED KB	DATE 08/23	BID NO.
VERT. -	DRAWN KR	AS-BUILT	PROJECT NO. 410-SF01A-56047
			SHT. C1 7 OF 44

Call Arizona 811 at least two full working days before you begin excavation



Call 811 or click Arizona811.com



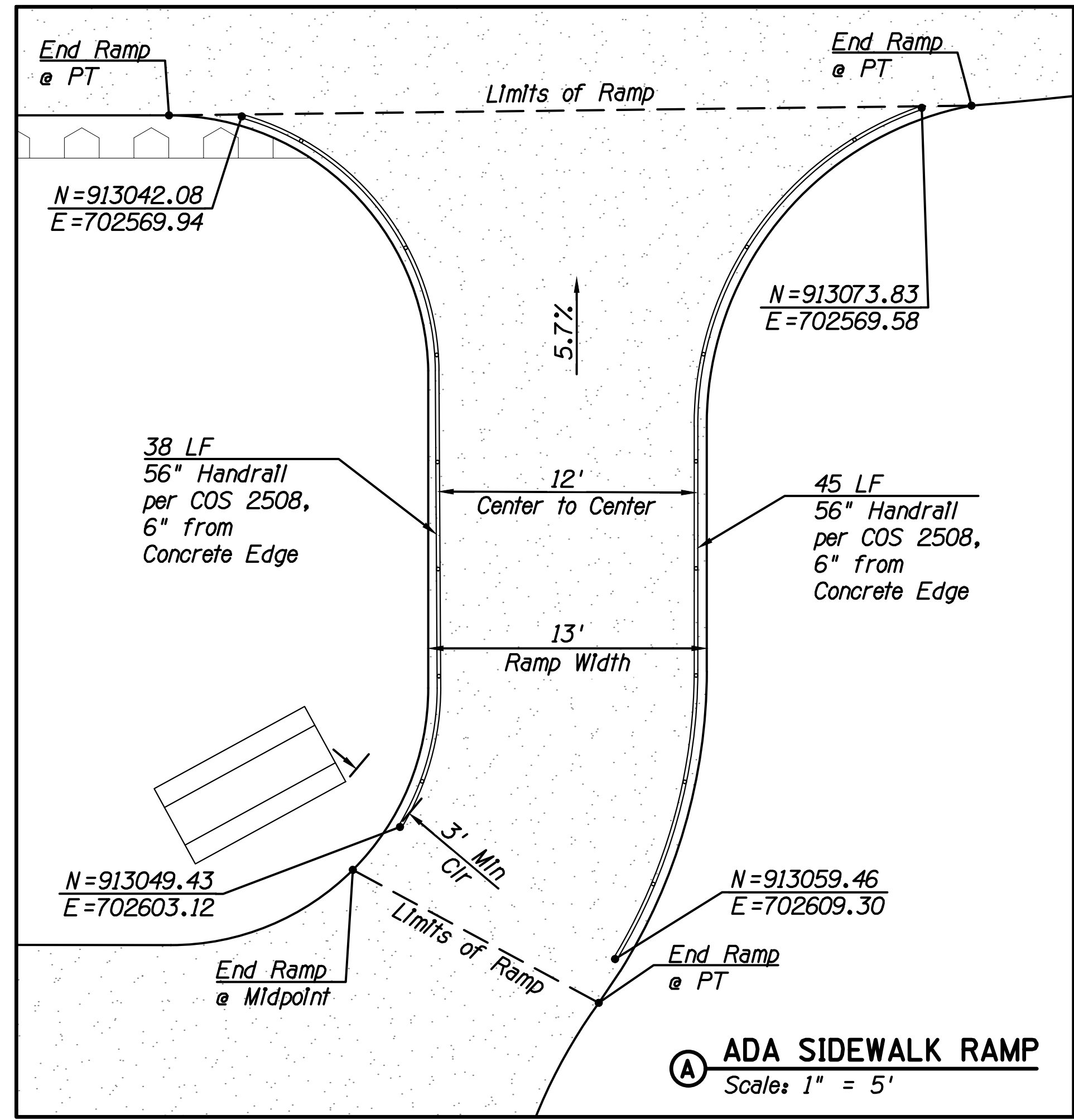
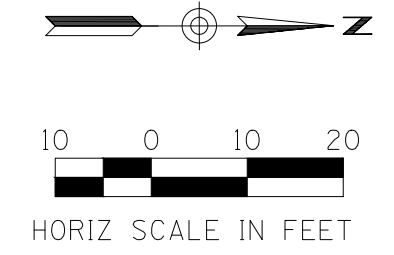
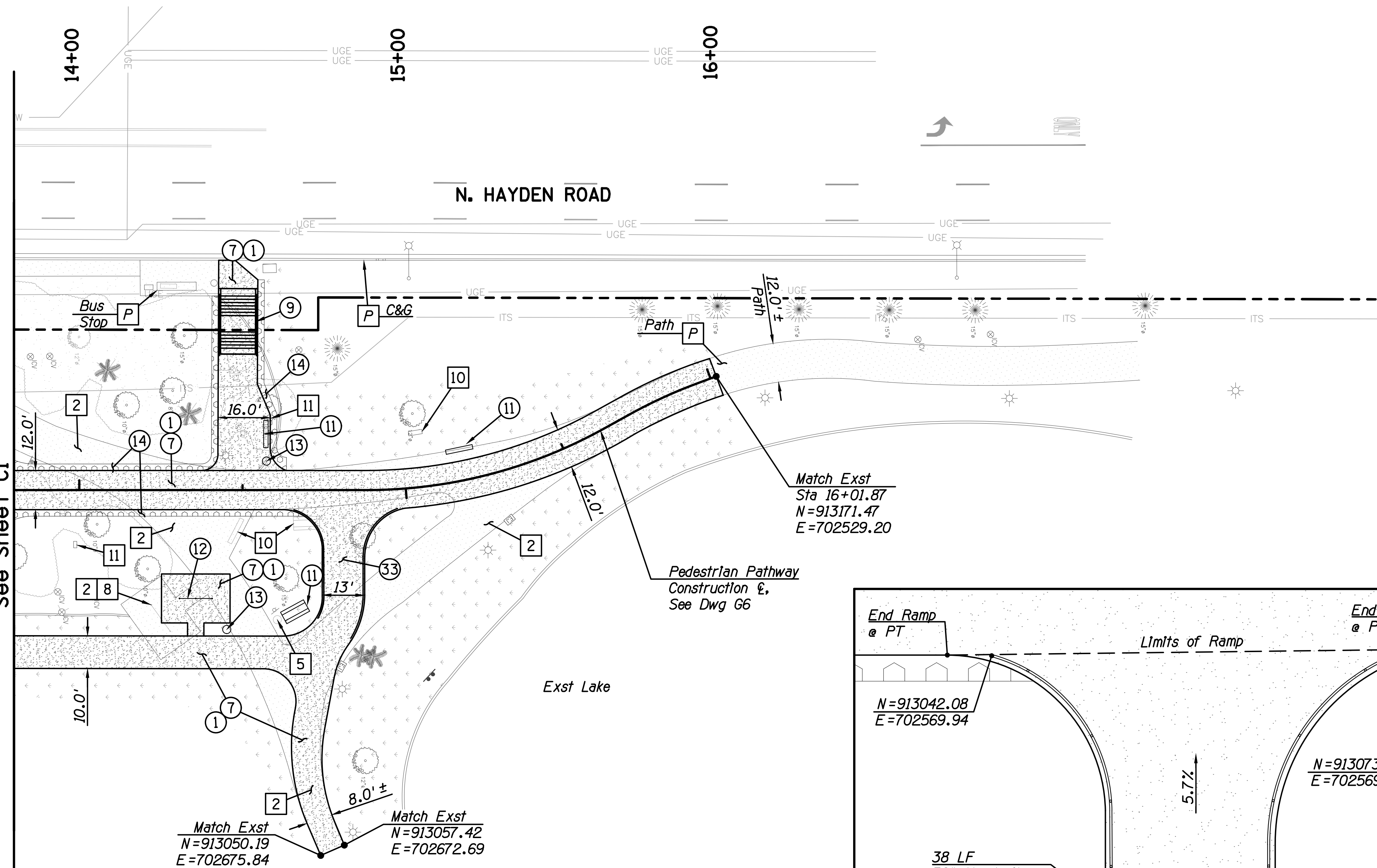
PH #	Northing	Easting	Top Elev	Description
1	912947.21	702449.58	1245.53	14" CONC WATER
2/3	912947.87	702504.31	1245.18	24" CONC ELEC & 1-3.5" UNK
4/5	912898.92	702647.17	1245.04	24" CONC ELEC
6	912888.27	702674.54		W - NOT FOUND

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PLOT DATE: 8/24/2023 9:51 AM

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Match Line Sta 13+80
See Sheet C1



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REMOVAL & RELOCATION NOTES

Description	Unit	Quan
2 Sawcut & Remove Concrete Sidewalk, Pathway, & Slabs	SF	6028
5 Remove & Salvage Trash Can (Misc)	EA	1
8 Remove & Salvage Exercise Equipment (Misc)	EA	1
10 Remove & Salvage Bench (Misc)	EA	3
11 Remove & Salvage Plaque (Misc). See Landscape Plans	EA	2

CONSTRUCTION NOTES

Description	Unit	Quan
1 Subgrade Preparation	SY	630
7 Concrete Path per Dtl 3, Sht C4 and Typ. Sections, Sht G4		
4" Thick	SF	1166
6" Thick	SF	3939
9 Concrete Stairs per Dtl 1, Sht C4	-	-
11 Install Salvaged Bench. Anchor to Ground per Specs (Misc)	EA	3
12 Install Salvaged Exercise Equipment. Anchor to Concrete per Specs (Misc)	EA	1
13 Install Salvaged Trash Can (Misc)	EA	2
14 Grouted Riprap per Scour Protection Plans	-	-
33 ADA Sidewalk Ramp per Dtl A, This Sht, 6" Thick Concrete	EA	1
6" Thick Concrete Path	SF	563
56" Handrall per COS 2508	LF	83

GENERAL NOTES

- P** Protect In Place
- 1. See Landscaping Plans for Landscaping Removals & Improvements.
- 2. See Signing & Striping Plans for Signing Removals & Improvements.
- 6. See Sht D1 for Chaparral Park Grading Plan.

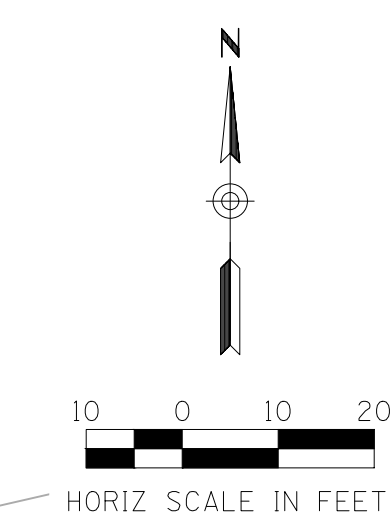
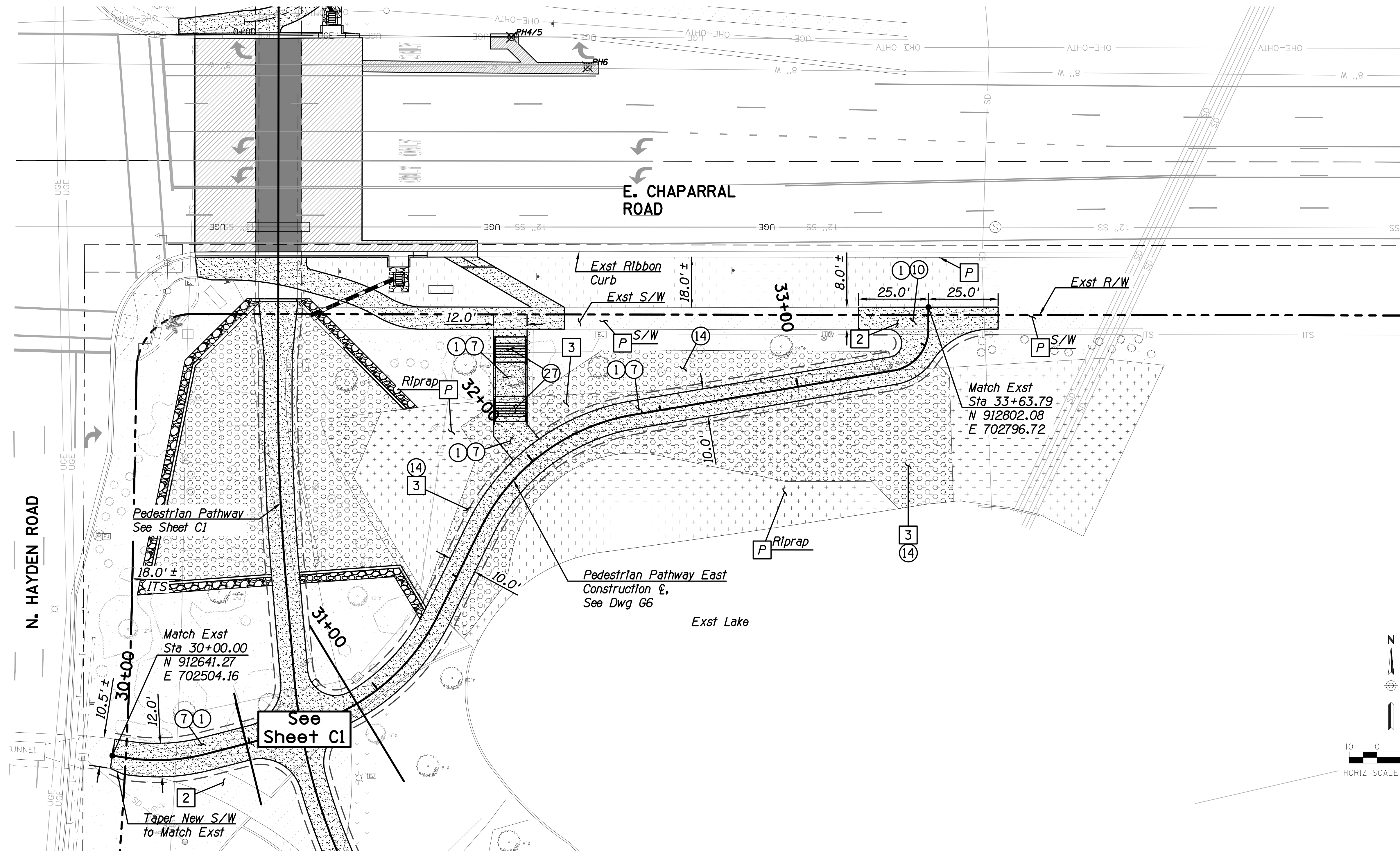


DATE	REVISION	BY
ENGINEER		
		PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251
SHEET TITLE PEDESTRIAN PATH PAVING PLAN		
PROJECT TITLE INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE	DESIGNED	DATE
HORIZ. 1"=20'	KB	08/23
VERT. 1"=-1'	KR	AS-BUILT
PROJECT NO.		BID NO.
410-SF01A-56047		
SHT. C2		8 OF 44

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PLOT DATE: 8/24/2023 9:52 AM

DESIGN FILE: P:\2015001-10\ENGINEERING\CADD\PRODUCTION\SHEETS\15001-10T_PP02.DWG



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REMOVAL & RELOCATION NOTES

Description	Unit	Quan
2 Sawcut & Remove Concrete Sidewalk, Pathway, & Slabs	SF	1023
3 Remove Grouted Riprap	SY	810

CONSTRUCTION NOTES

Description	Unit	Quan
1 Subgrade Preparation	SY	460
7 Concrete Path per Dtl 3, Sht C4 and Typ. Sections, Sht G4 4" Thick	SF	3000
6" Thick	SF	800
10 Concrete Path per MAG 230, 5" Thick	SF	415
14 Grouted Riprap per Scour Protection Plans	-	-
27 Concrete Stairs per Dtl 4, Sht C5	-	-

GENERAL NOTES

- P** Protect In Place
- 1. See Landscaping Plans for Landscaping Removals & Improvements.
- 2. See Signing & Striping Plans for Signing Removals & Improvements.
- 7. See Shts D2-D3 for Camelback Park Grading Plan.



DATE	REVISION	BY
ENGINEER		
		PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251

SHEET TITLE: PEDESTRIAN PATH EAST PAVING PLAN			
PROJECT TITLE: INDIAN BEND WASH PATH AT CHAPARRAL ROAD			
SCALE	DESIGNED	DATE	BID NO.
HORIZ. 1"=20'	KB	08/23	
VERT. 1"=2'	KR	AS-BUILT	
PROJECT NO.		SHT. C.3	
410-SF01A-56047		9 OF 44	

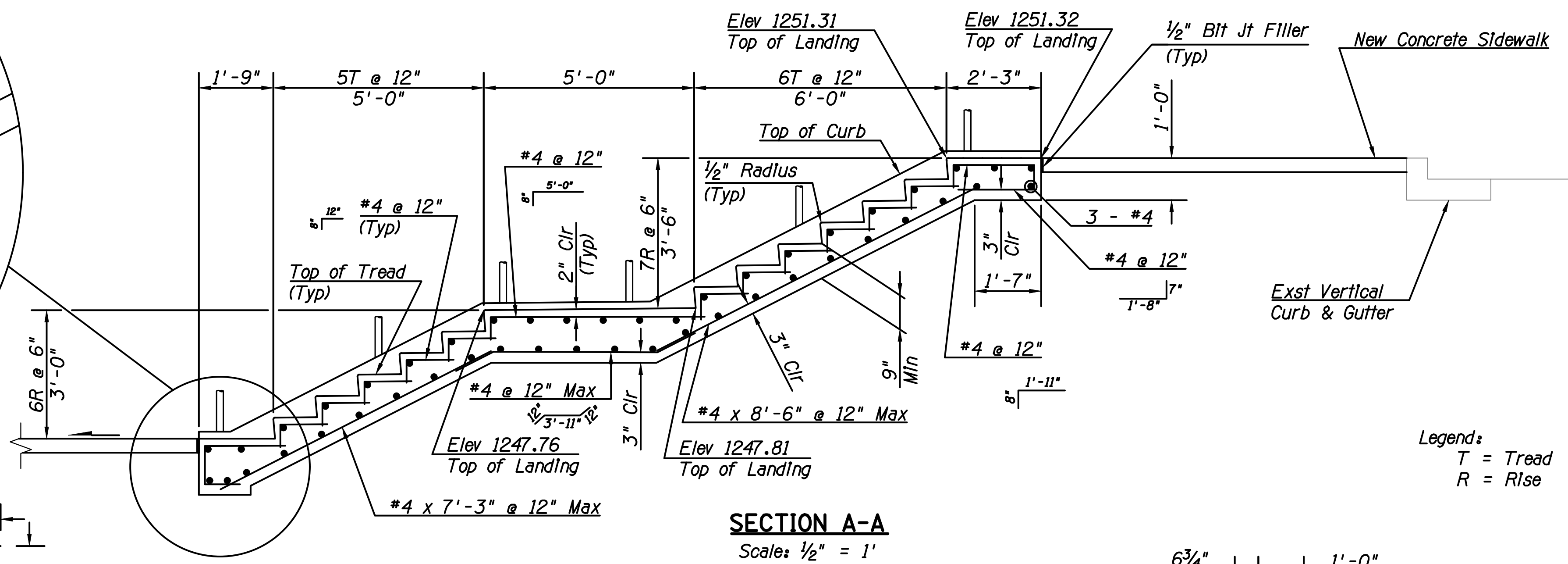
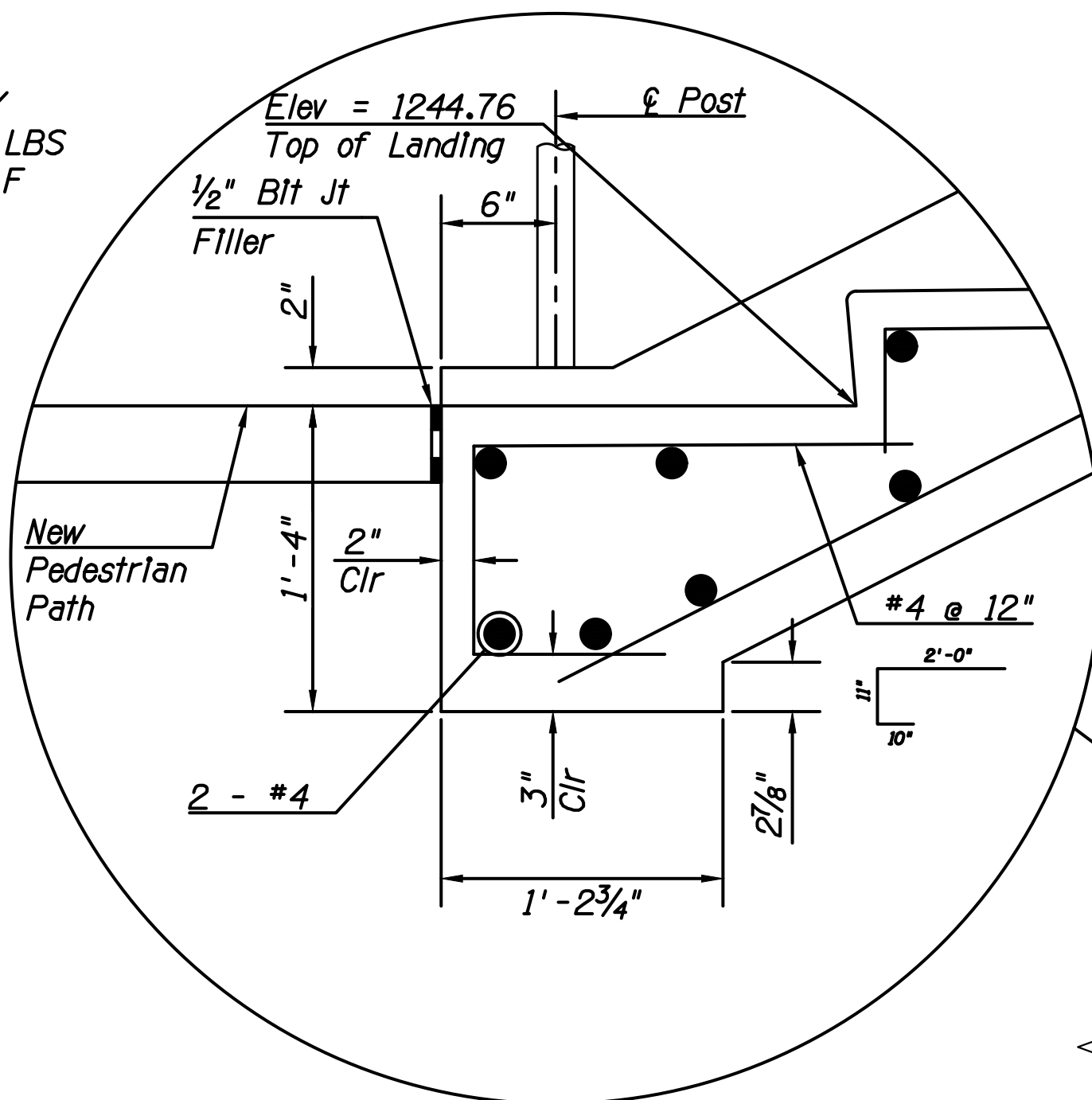
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Quantities:

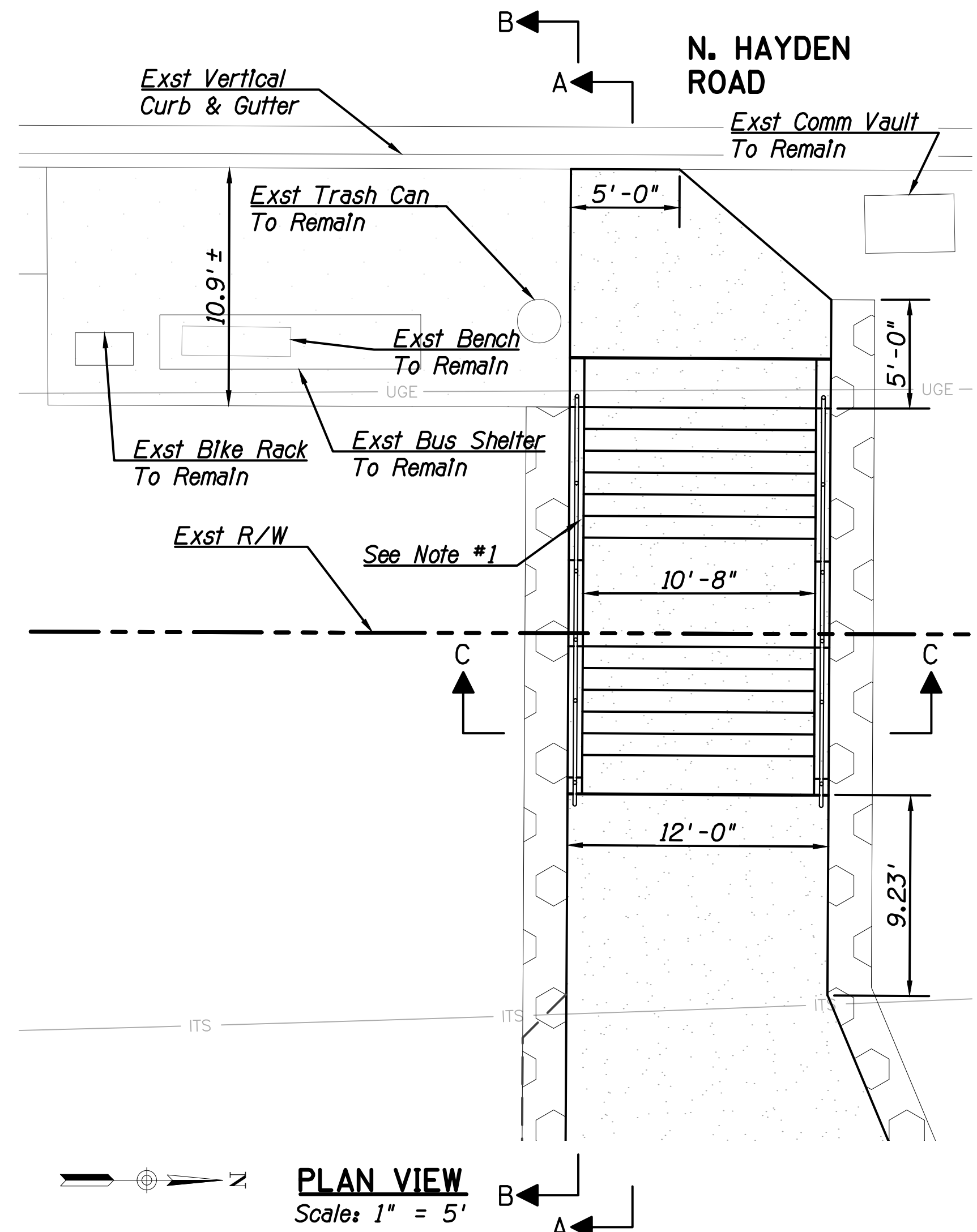
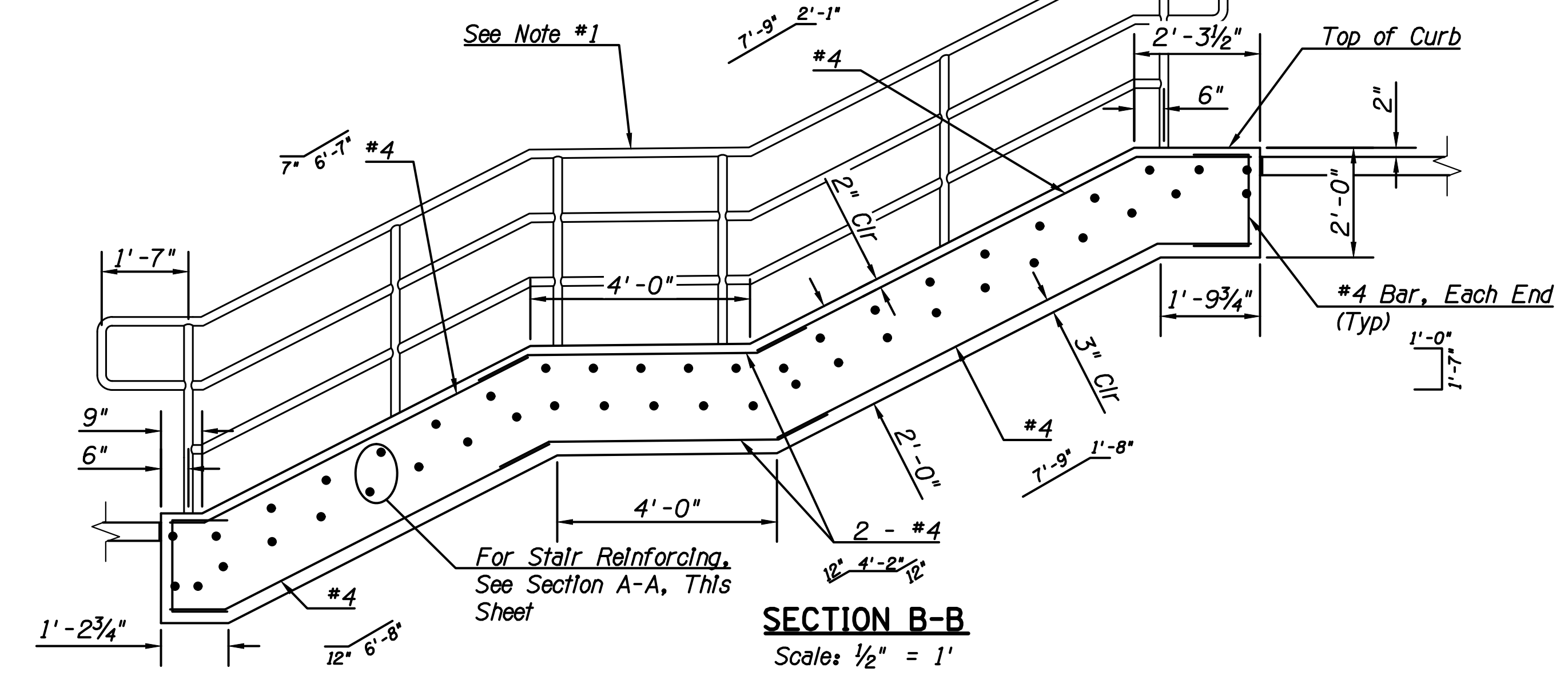
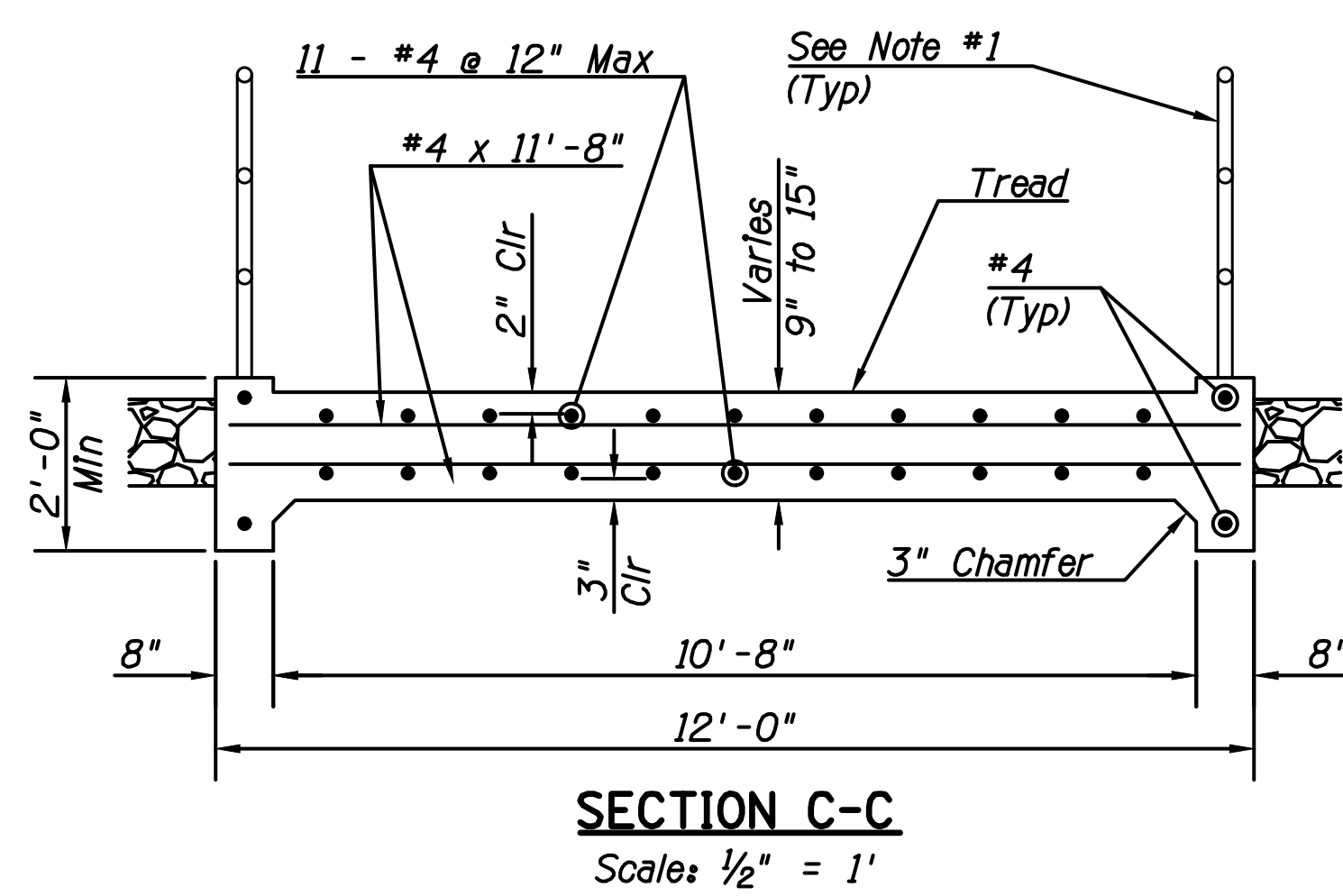
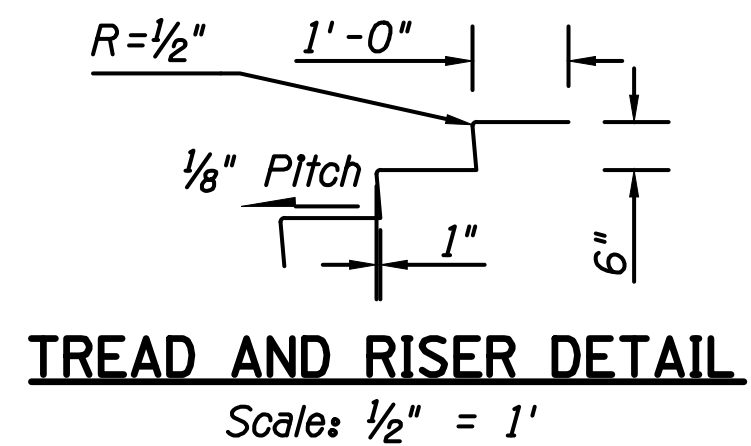
Structural Concrete CL "A" 3,000 psi..... 11 CY
 Reinforcing Steel 835 LBS
 Steel Handrails, COS 2508 (42")..... 43 LF

General Notes:

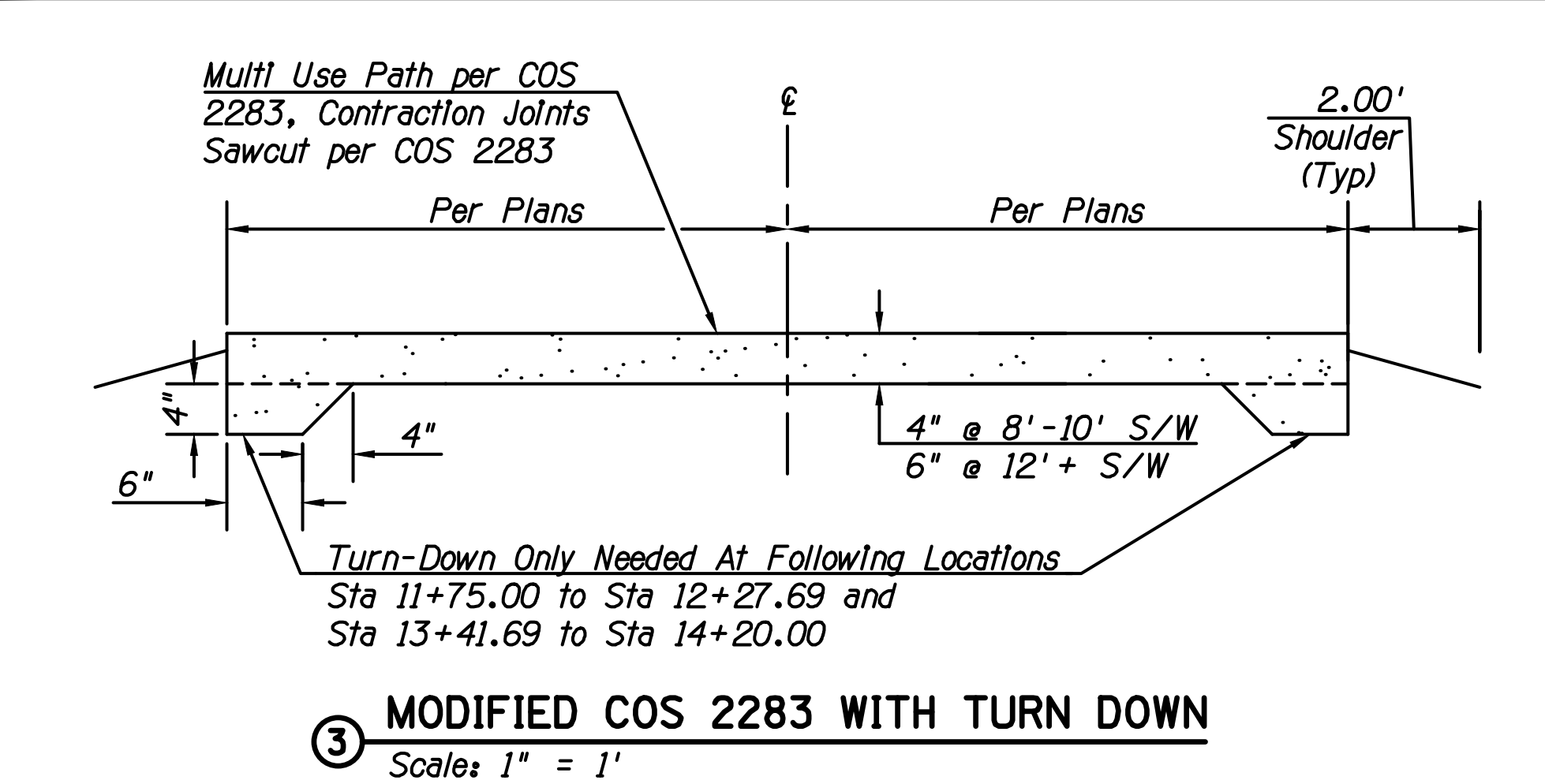
1. New Railing per COS 2508 (Item 520009).
2. Concrete: $f'_c = 3,000$ PSI. Cast-In-Place Concrete, Class 'A'.
3. Reinforcing Steel Shall Conform to ASTM Specification A615. All Reinforcing Shall Be Furnished as Grade 60.
4. All Bends and Hooks Shall Meet the Requirements of AASHTO LRFD Article 5.10.2. All Bend Dimensions for Reinforcing Steel Shall be Out-to-Out of Bars. All Placement Dimensions for Reinforcing Steel Shall Be to Center of Bars Unless Noted Otherwise.
5. All Reinforcing Steel Shall Have 2 Inch Clear Cover Unless Noted Otherwise.
6. Chamfer All Exposed Corners $\frac{3}{4}$ " Unless Noted Otherwise.
7. Compact Backfill for Stair Minimum 95 Percent of ASTM D698 Maximum Dry Density.
8. Dimensions Shall Not Be Scaled From Drawings.



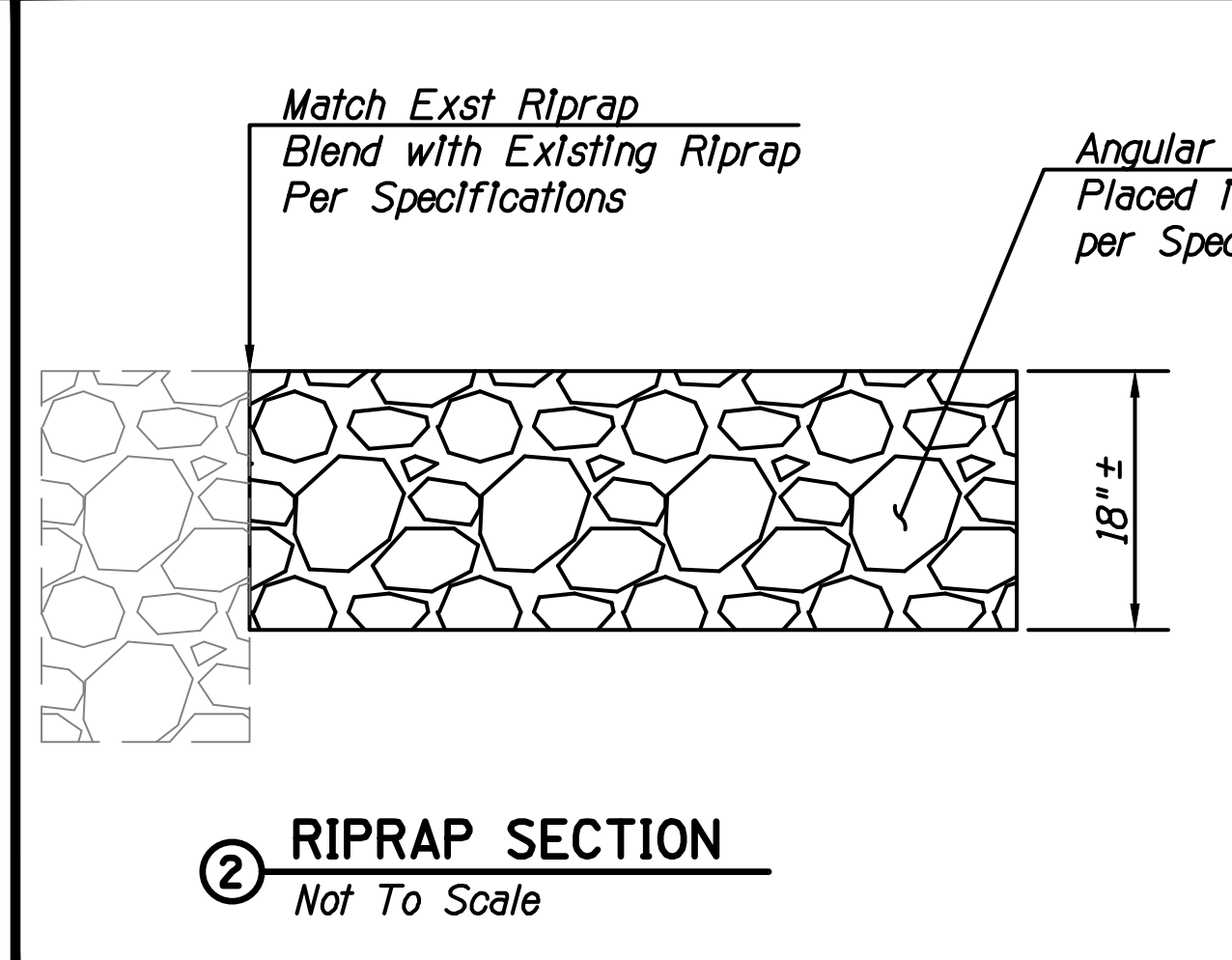
Legend:
 T = Tread
 R = Rise



1 CONCRETE STAIRS - NORTH
 Scale: 1" = 5'



3 MODIFIED COS 2283 WITH TURN DOWN
 Scale: 1" = 1'



2 RIPRAP SECTION
 Not To Scale

DATE	REVISION	BY
ENGINEER		
PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE		
DETAILS		
PROJECT TITLE		
INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE	DESIGNED	DATE
HORIZ. -	ATL	08/23
VERT. -	AS-BUILT	
PROJECT NO.		SHT.
410-SF01A-56047		C4
10 OF 44		

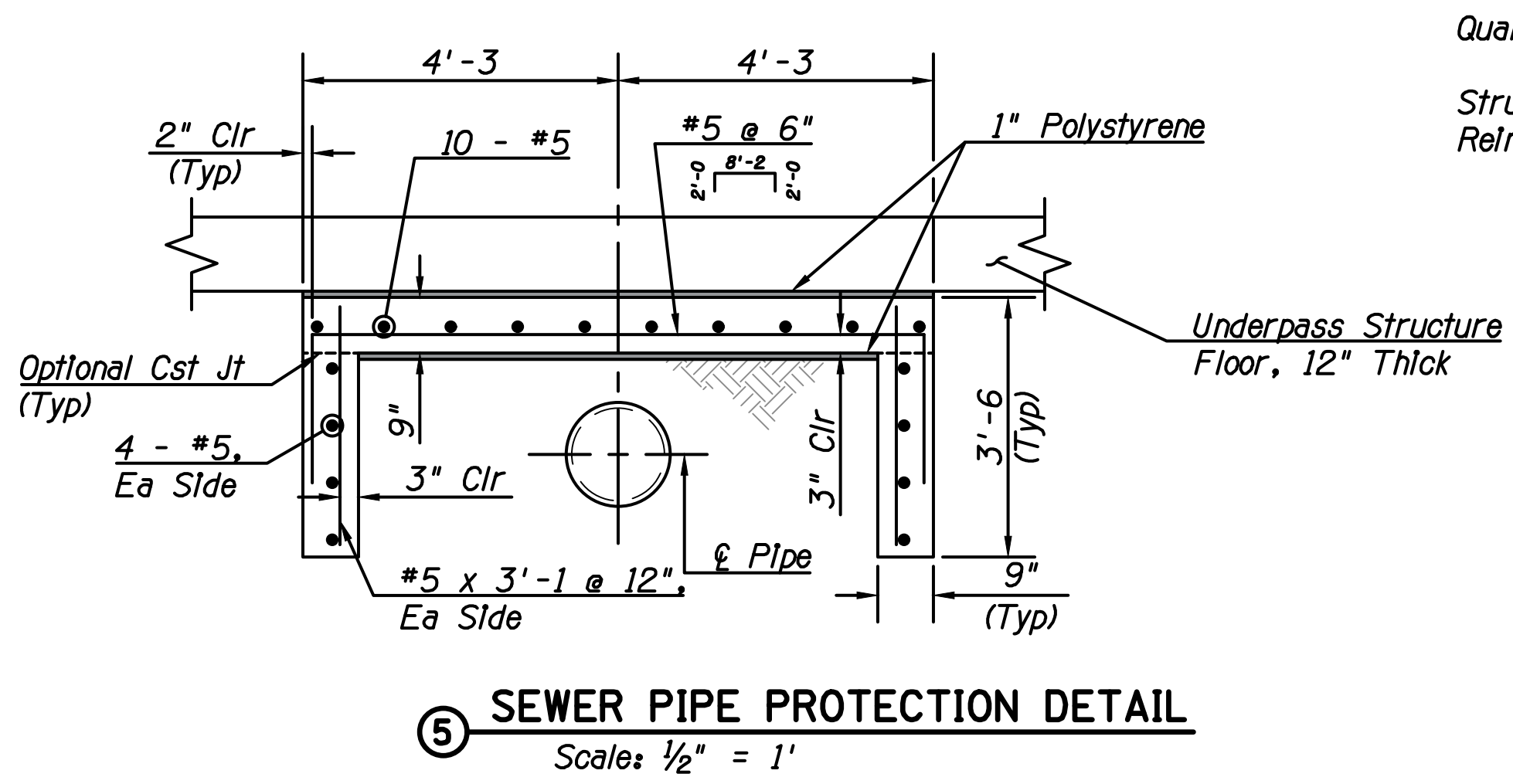
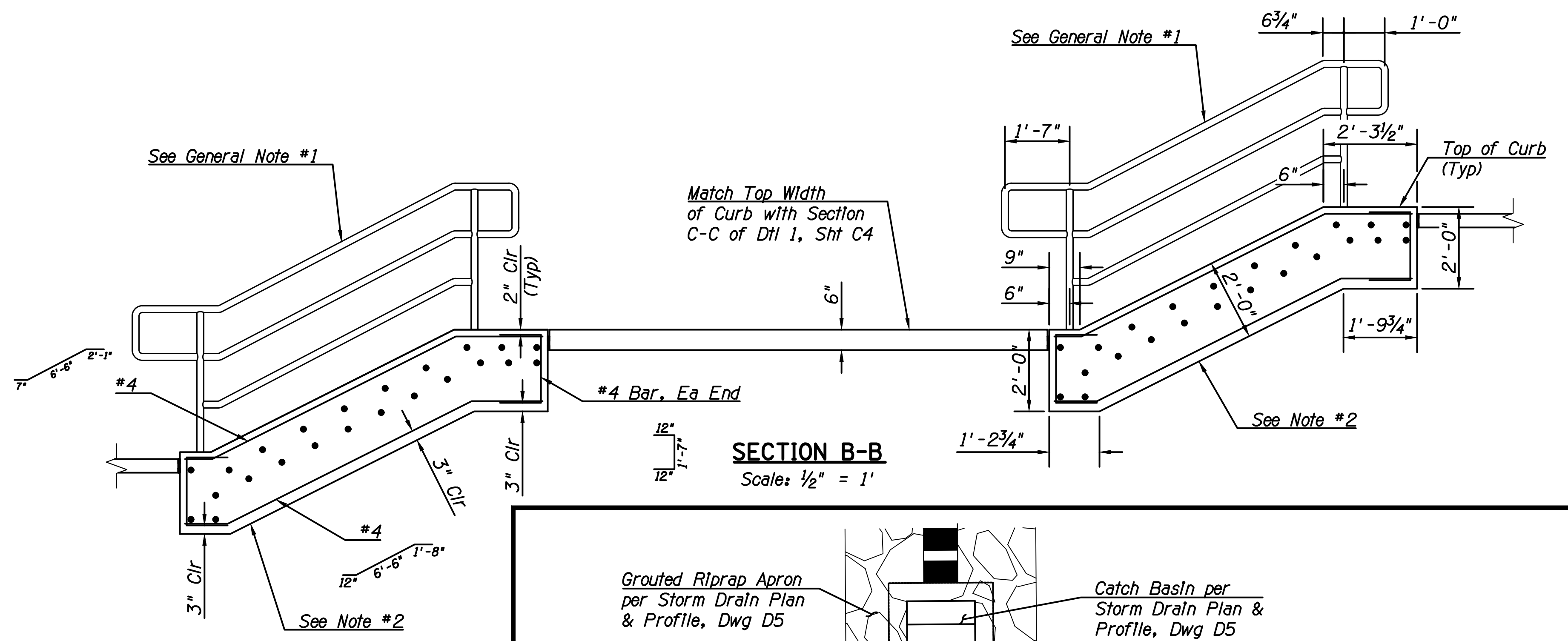
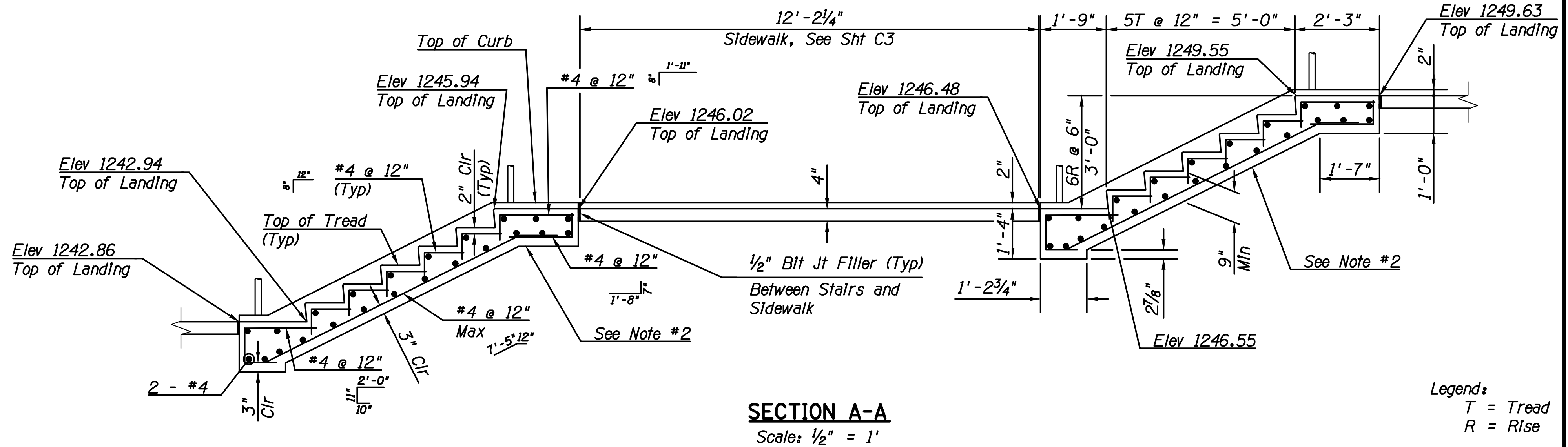
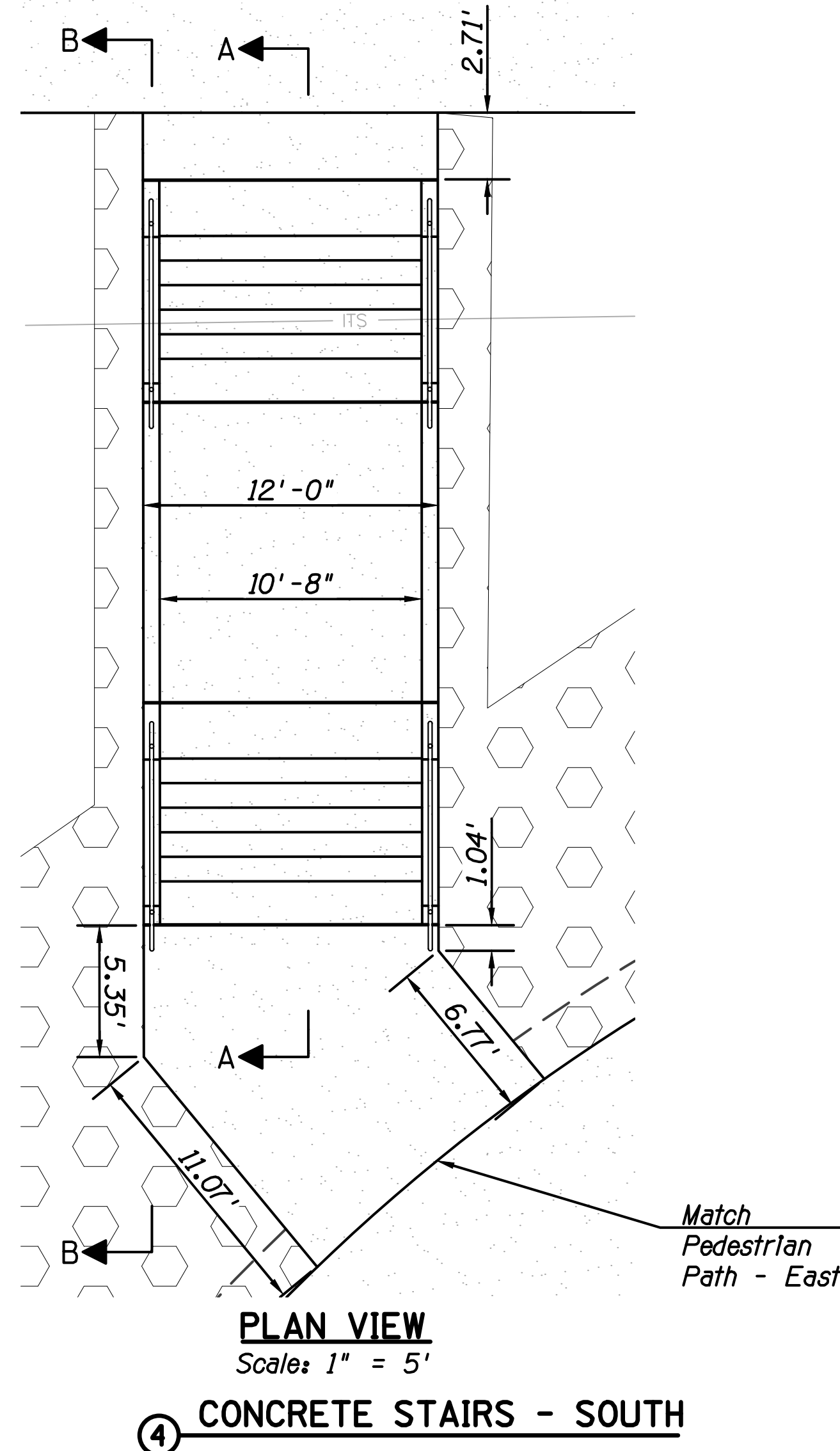
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 PLOT DATE: 8/24/2023 9:53 AM

Quantities:

Structural Concrete CL "A" 3,000 psl..... 11 CY
 Reinforcing Steel 800 LBS
 Steel Handrails, COS 2508 (42")..... 56 LF

Notes:

1. See General Notes on Sheet C4.
2. Dimensions and reinforcing of both staircase sections are identical.
3. See SECTION C-C on Sheet C4 for typical staircase section.
4. See TREAD AND RISER DETAIL on Sheet C4 for slope and pitch of steps.

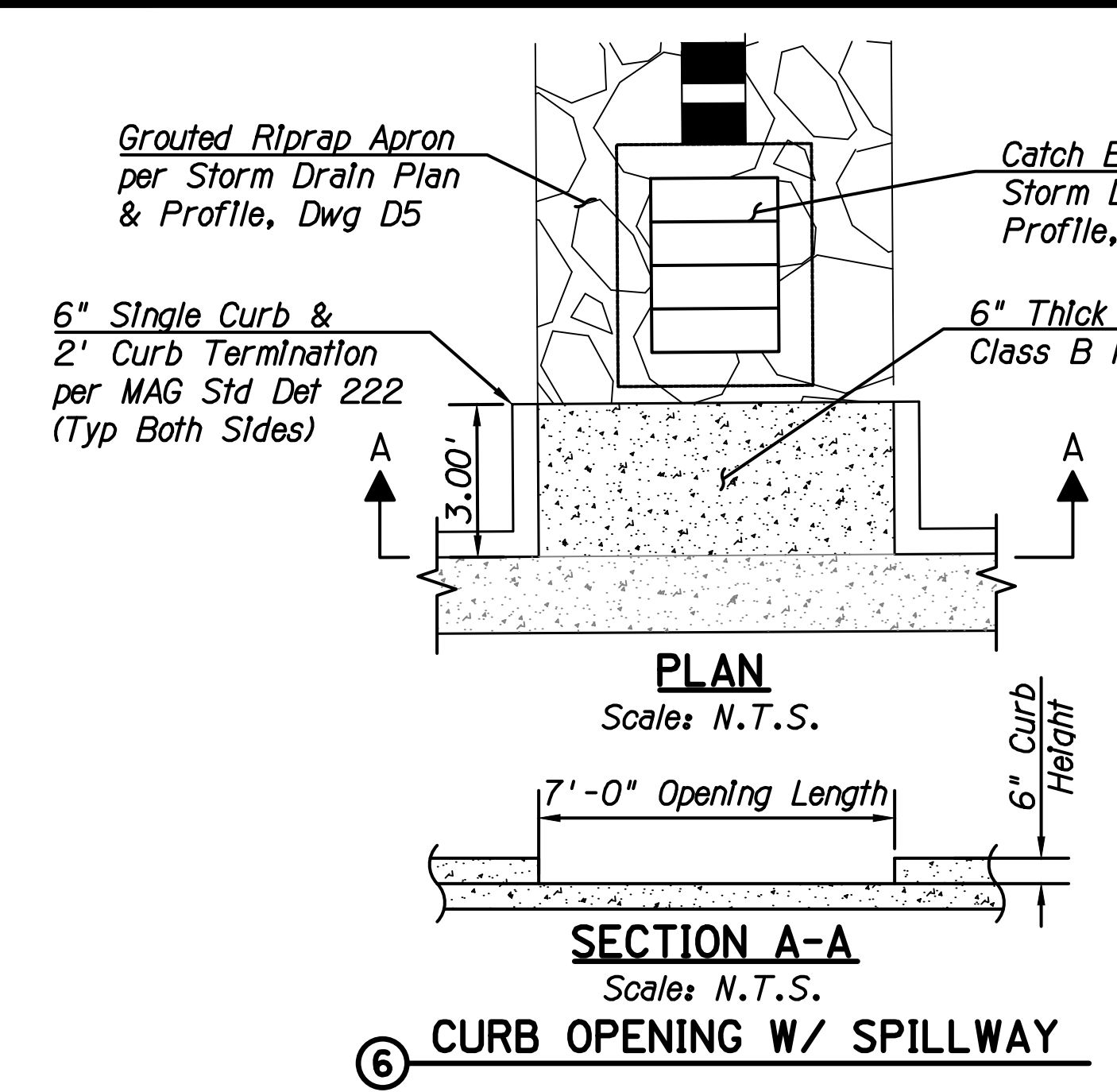


Quantities:

Structural Concrete CL "A" 3,000 psl..... 9 CY
 Reinforcing Steel 1150 LBS

Notes:

1. See General Notes on Sheet C4 for concrete and reinforcing requirements.
2. Limits of sewer bridge slab shall be three feet beyond the underpass walls.
3. Contractor shall locate the existing pipe at the limits of the bridge slab beyond the underpass walls. Sewer pipe shall not be exposed during construction of the bridge slab.



DATE	REVISION	BY

ENGINEER		CITY OF SCOTTSDALE PUBLIC WORKS
PROJECT TITLE	INDIAN BEND WASH PATH AT CHAPARRAL ROAD	CAPITAL PROJECT MANAGEMENT
SCALE	DESIGNED ATL	DATE 08/23
HORIZ. -	DRAWN ATL	AS-BUILT
VERT. -		

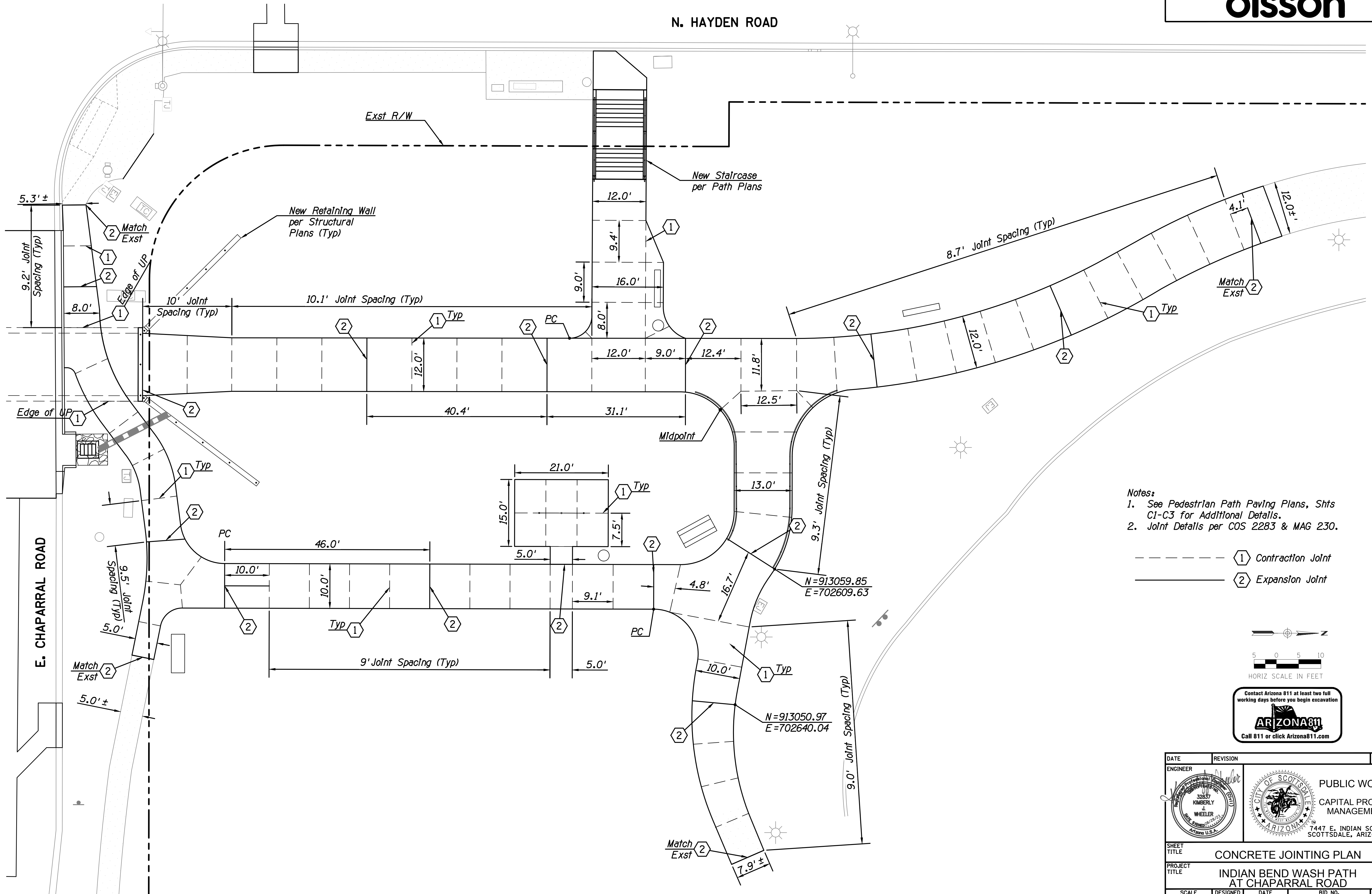
BID NO.	SHT. C5
PROJECT NO. 410-SF01A-56047	11 OF 44

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N. HAYDEN ROAD

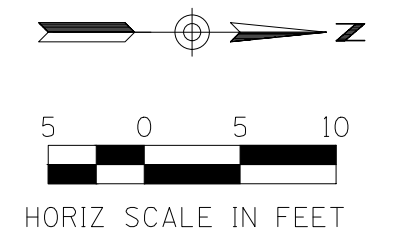
PLOT DATE: 8/24/2023 9:54 AM

DESIGN FILE: P:\2015001-10\ENGINEERING\CADD\PRODUCTION\SHEETS\15001-10T_JN01.DWG



- Notes:
1. See Pedestrian Path Paving Plans, Shts CI-C3 for Additional Details.
 2. Joint Details per COS 2283 & MAG 230.

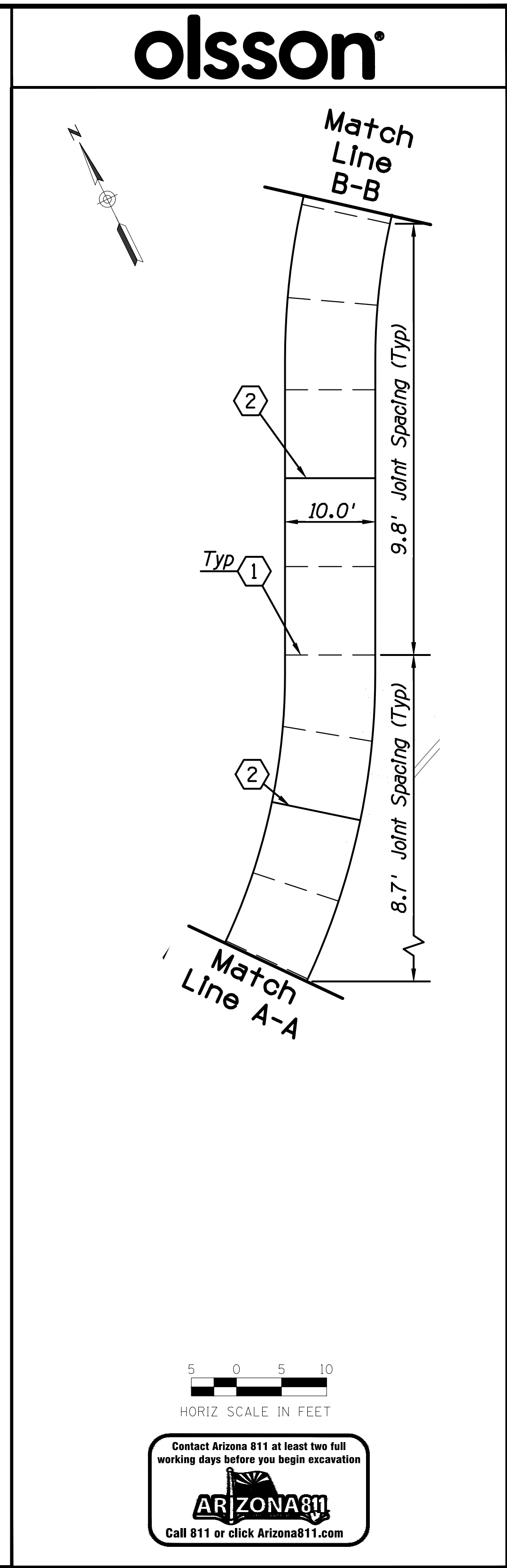
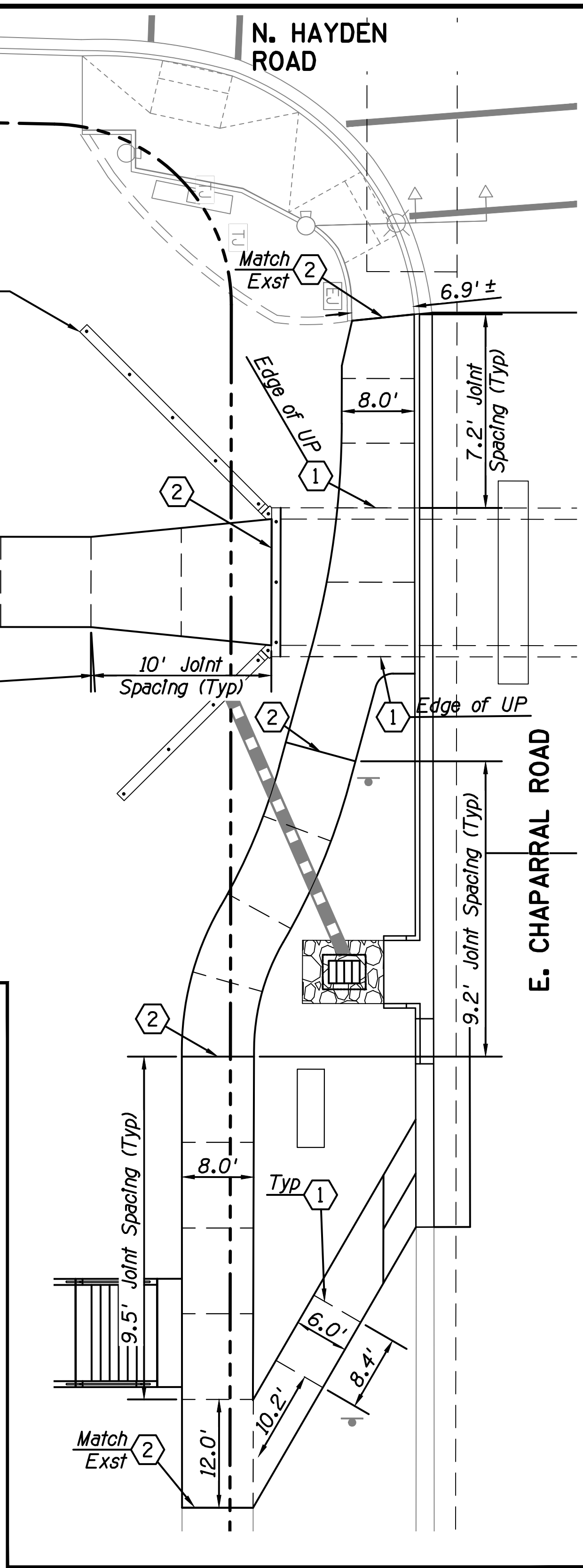
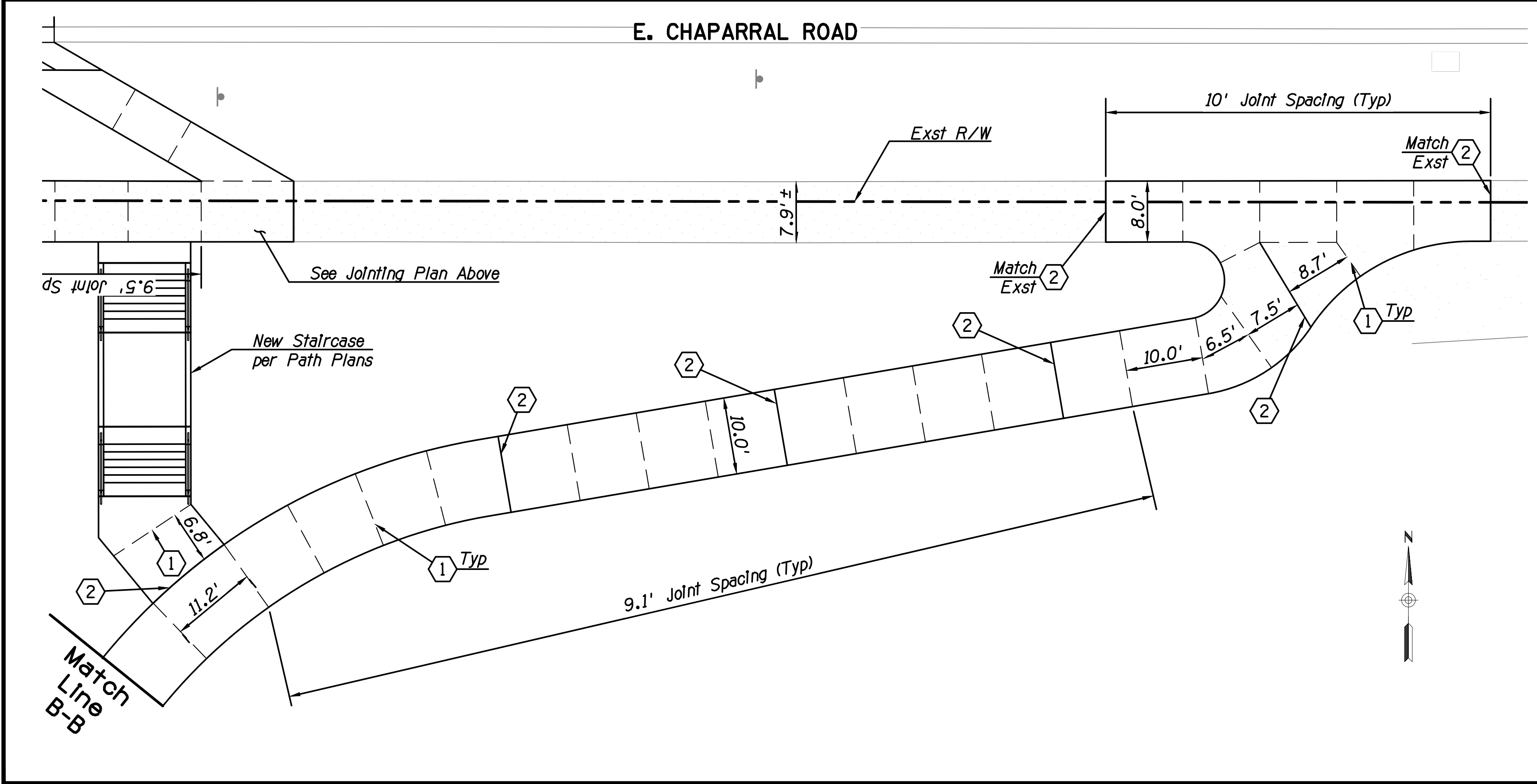
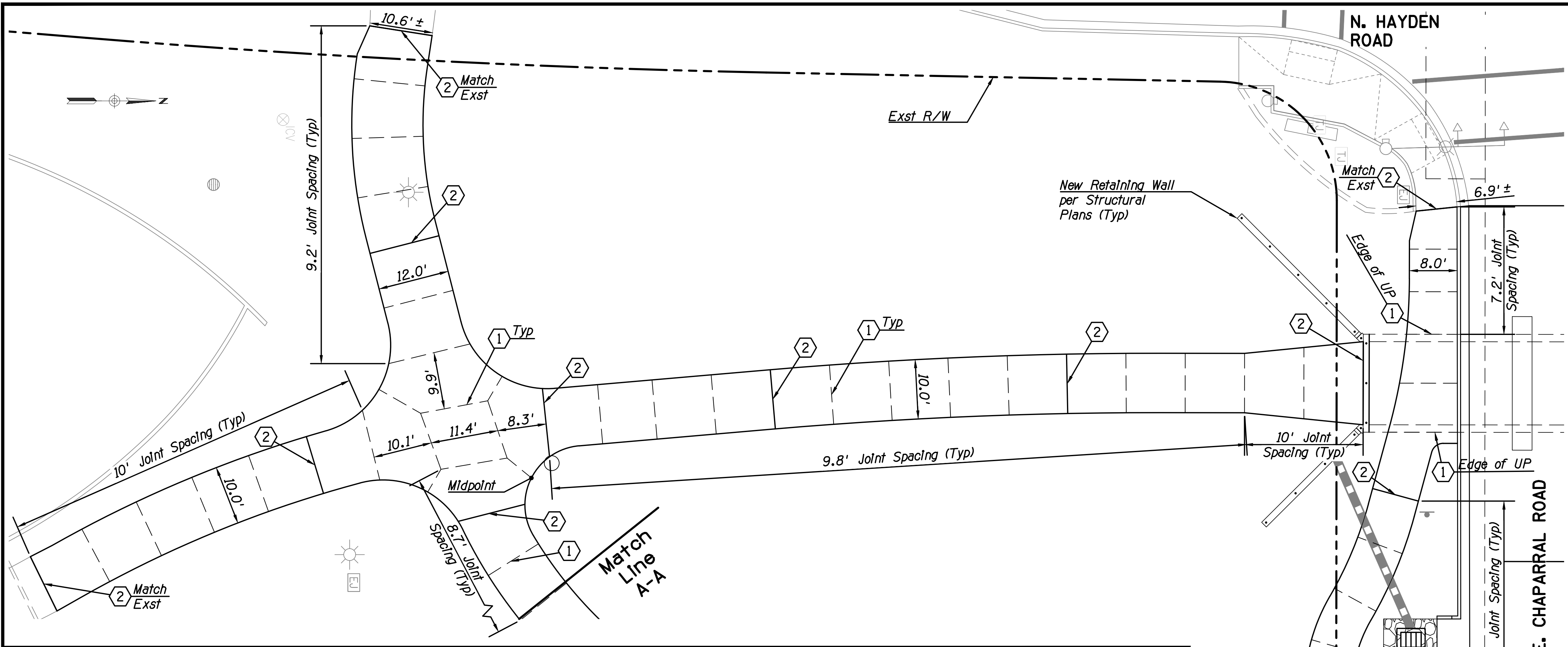
- ① Contraction Joint
- ② Expansion Joint



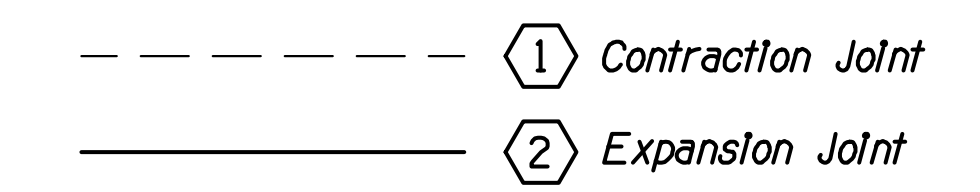
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ENGINEER		
PUBLIC WORKS		
CAPITAL PROJECT MANAGEMENT		
7447 E. INDIAN SCHOOL RD.		
SCOTTSDALE, ARIZONA 85251		
SHEET TITLE		
CONCRETE JOINTING PLAN		
PROJECT TITLE		
INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE	DESIGNED	DATE
HORIZ. 1"=10'	KB	08/23
VERT. -	AS-BUILT	
	DRAWN	PROJECT NO.
	KR	410-SF01A-56047
		BID NO.
		SHT. C6
		12 OF 44

PLOT DATE: 8/24/2023 9:54 AM

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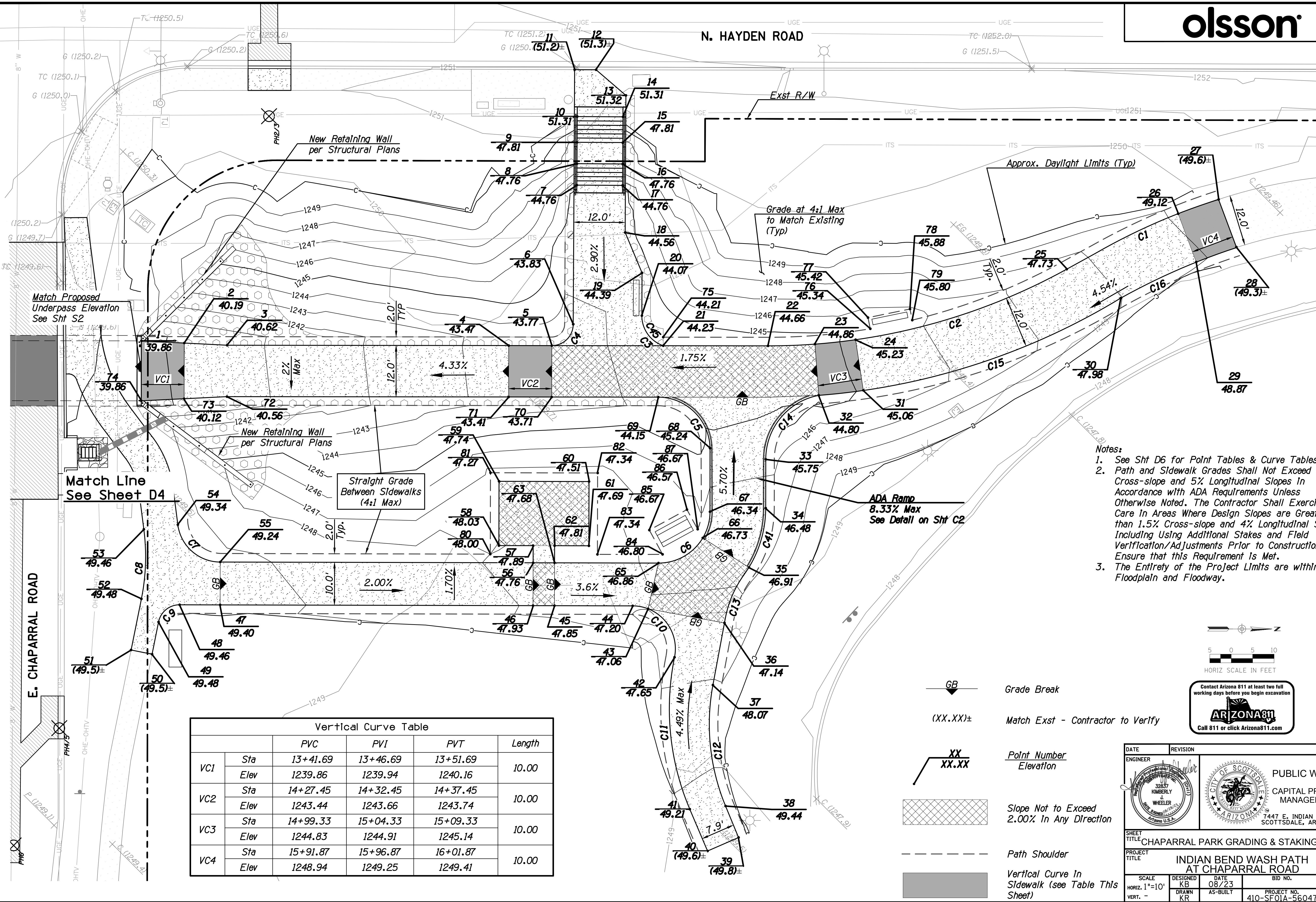


- Notes:**
1. See Pedestrian Path Paving Plans, Shts C1-C3 for Additional Details.
 2. Joint Details per COS 2283 & MAG 230.

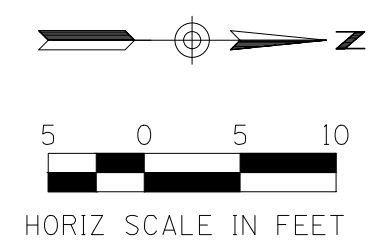


DATE	REVISION	BY
ENGINEER		
		PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251
SHEET TITLE CONCRETE JOINTING PLAN		
PROJECT TITLE INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE HORIZ. 1"=10' VERT. -	DESIGNED KB DRAWN KR	DATE 08/23 AS-BUILT PROJECT NO. 410-SF01A-56047
BID NO.	SHT. C7	13 OF 44

3705-22



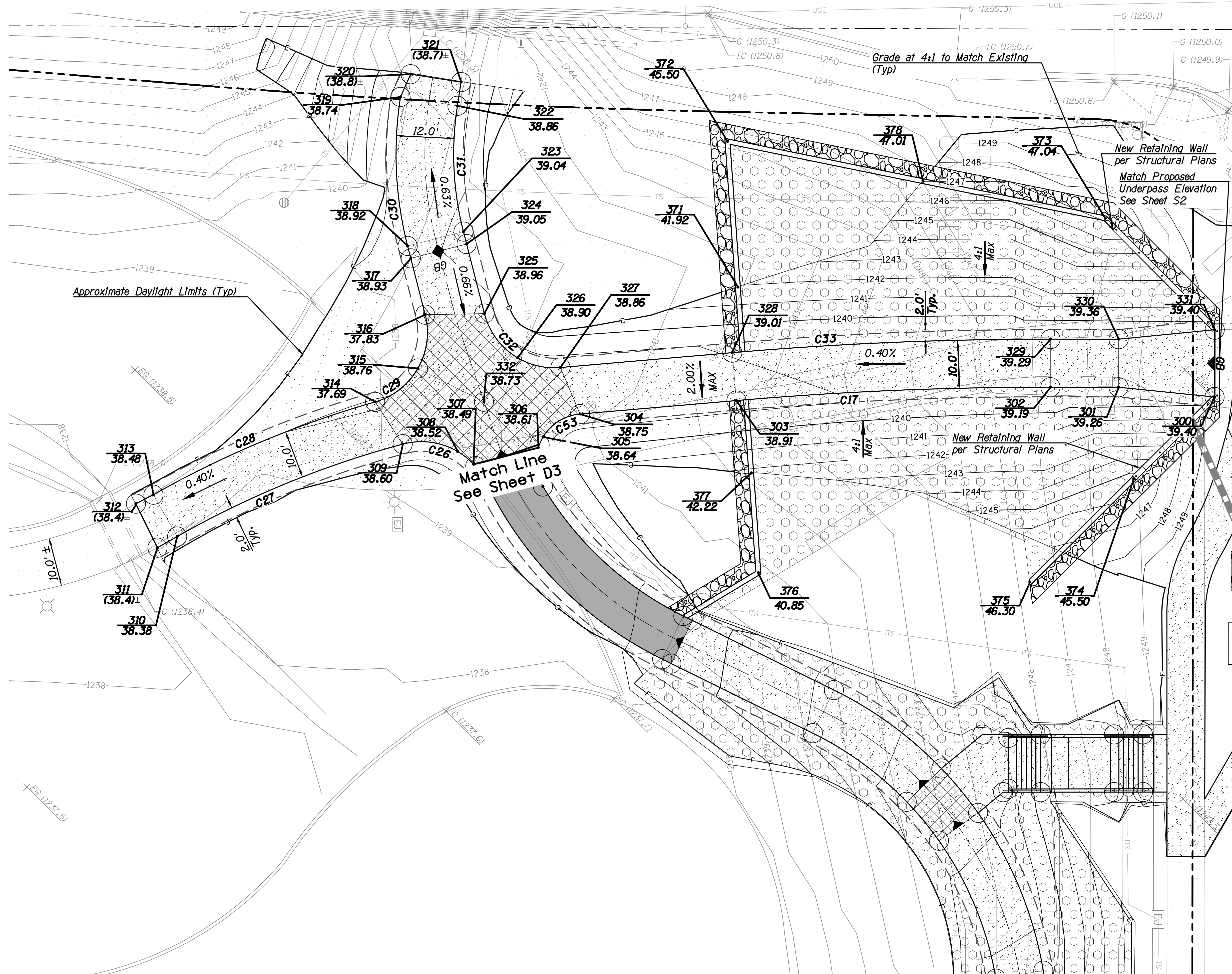
- Notes:
- See Sht D6 for Point Tables & Curve Tables
 - Path and Sidewalk Grades Shall Not Exceed 2% Cross-slope and 5% Longitudinal Slopes In Accordance with ADA Requirements Unless Otherwise Noted. The Contractor Shall Exercise Care In Areas Where Design Slopes are Greater than 1.5% Cross-slope and 4% Longitudinal Slope, Including Using Additional Stakes and Field Verification/Adjustments Prior to Construction to Ensure that this Requirement is Met.
 - The Entirety of the Project Limits are within the Floodplain and Floodway.



	PVC	PVI	PVT	Length	
VC1	Sta	13+41.69	13+46.69	13+51.69	10.00
	Elev	1239.86	1239.94	1240.16	
VC2	Sta	14+27.45	14+32.45	14+37.45	10.00
	Elev	1243.44	1243.66	1243.74	
VC3	Sta	14+99.33	15+04.33	15+09.33	10.00
	Elev	1244.83	1244.91	1245.14	
VC4	Sta	15+91.87	15+96.87	16+01.87	10.00
	Elev	1248.94	1249.25	1249.41	

- Grade Break
- Match Exst - Contractor to Verify
- Point Number Elevation
- Slope Not to Exceed 2.00% In Any Direction
- Path Shoulder
- Vertical Curve In Sidewalk (see Table This Sheet)

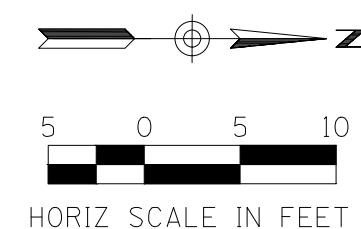
DATE	REVISION	BY
PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE: CHAPARRAL PARK GRADING & STAKING PLAN PROJECT TITLE: INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE	DESIGNED	DATE
HORIZ. 1"=10'	KB	08/23
VERT. -	DRAWN	AS-BUILT
	KR	
BID NO.	SHT. NO.	
410-SF01A-56047	14 OF 44	



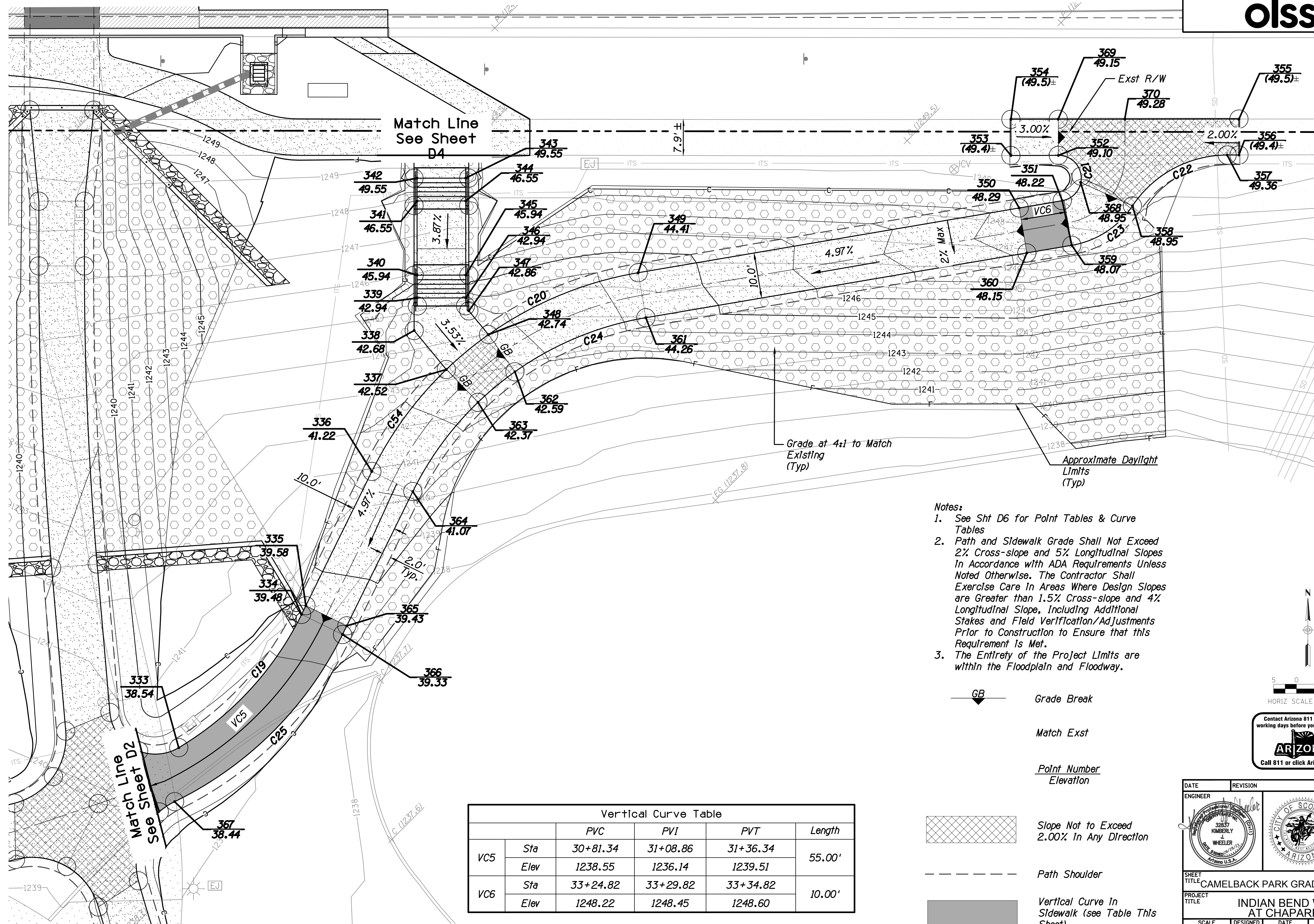
Notes:

1. See Sht D6 for Point Tables & Curve Tables
2. Path and Sidewalk Grade Shall Not Exceed 2% Cross-slope and 5% Longitudinal Slopes In Accordance with ADA Requirements Unless Noted Otherwise. The Contractor Shall Exercise Care In Areas Where Design Slopes are Greater than 1.5% Cross-slope and 4% Longitudinal Slope, Including Additional Stakes and Field Verification/Adjustments Prior to Construction to Ensure that this Requirement is Met.
3. The Entirety of the Project Limits are within the Floodplain and Floodway.

- GB Grade Break
- (XX.XX)± Match Exst
- XX
XX.XX Point Number
Elevation
- Slope Not to Exceed
2.00% In Any Direction
- Path Shoulder



DATE	REVISION	BY
ENGINEER		
		PUBLIC WORKS CAPITAL PROJECT MANAGEMENT
SHEET TITLE: CAMELBACK PARK GRADING & STAKING PLAN		
PROJECT TITLE: INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE	DESIGNED	DATE
HORIZ. 1"=10'	KB	08/23
VERT. -	AS-BUILT	
DRAWN		BID NO.
KR		410-SF01A-56047
PROJECT NO.		SHT. D2
15 OF 44		



Notes:

1. See Sht D6 for Point Tables & Curve Tables
2. Path and Sidewalk Grade Shall Not Exceed 2% Cross-slope and 5% Longitudinal Slopes In Accordance with ADA Requirements Unless Noted Otherwise. The Contractor Shall Exercise Care In Areas Where Design Slopes are Greater than 1.5% Cross-slope and 4% Longitudinal Slope, Including Additional Stakes and Field Verification/Adjustments Prior to Construction to Ensure that this Requirement is Met.
3. The Entirety of the Project Limits are within the Floodplain and Floodway.

— GB — Grade Break

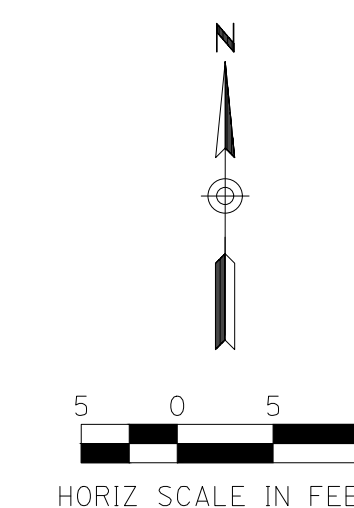
--- Match Exst

Point Number
Elevation

▨ Slope Not to Exceed
2.00% In Any Direction

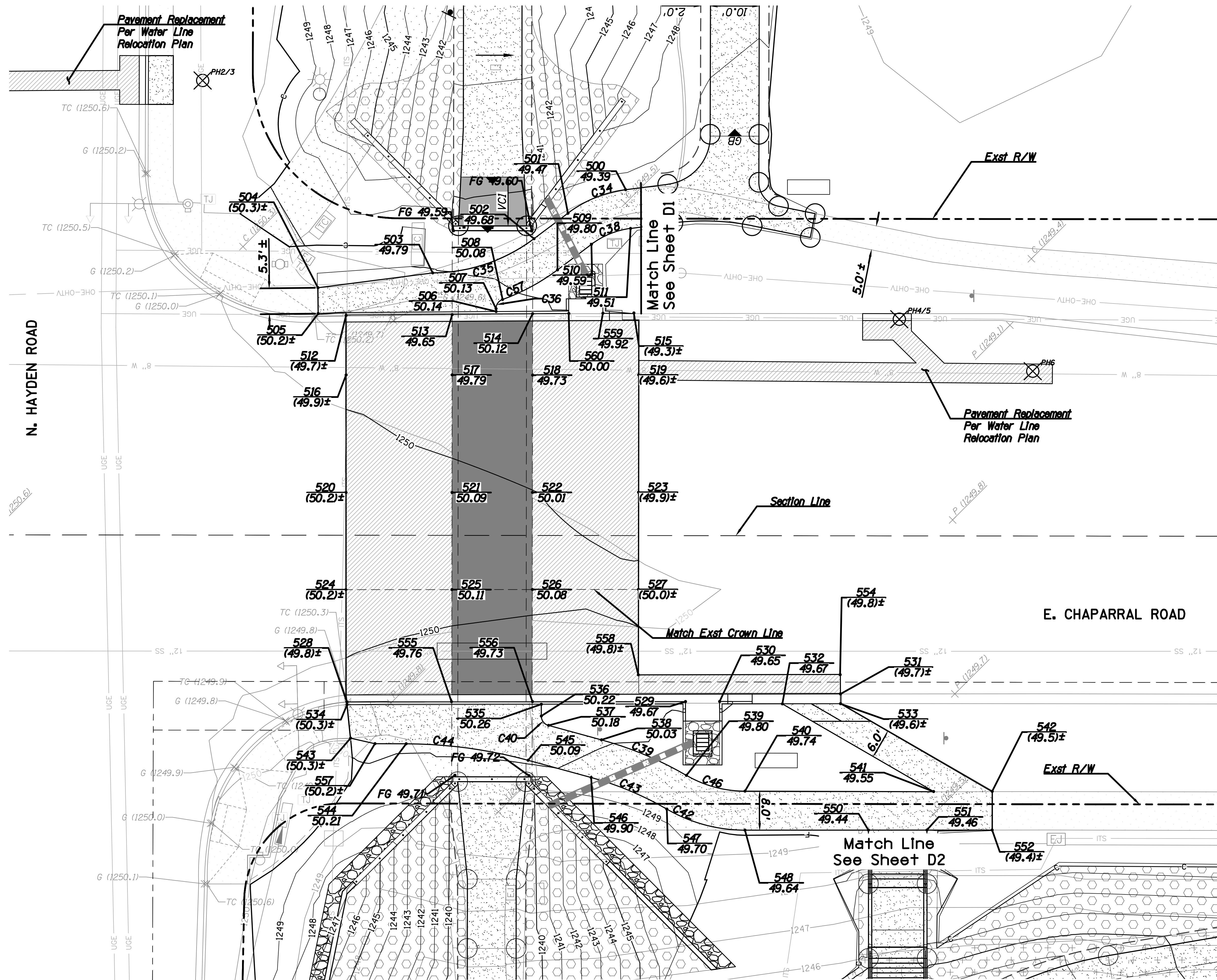
--- Path Shoulder

▭ Vertical Curve In
Sidewalk (see Table This
Sheet)

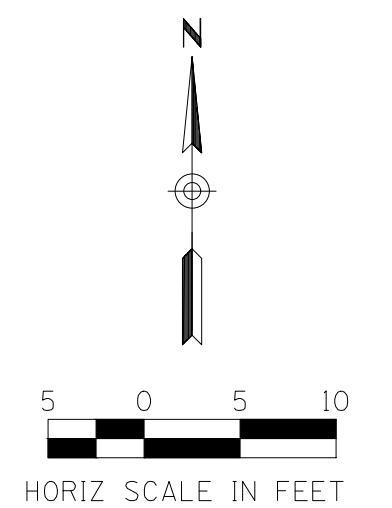


Vertical Curve Table					
		PVC	PVI	PVT	Length
VC5	Sta	30+81.34	31+08.86	31+36.34	55.00'
	Elev	1238.55	1236.14	1239.51	
VC6	Sta	33+24.82	33+29.82	33+34.82	10.00'
	Elev	1248.22	1248.45	1248.60	

DATE	REVISION	BY
ENGINEER		
		PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251
SHEET TITLE: CAMELBACK PARK GRADING & STAKING PLAN		
PROJECT TITLE: INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE	DESIGNED	DATE
HORIZ. 1"=10'	KB	08/23
VERT. -	DRAWN	AS-BUILT
	KR	
PROJECT NO.		BID NO.
410-SF01A-56047		
SHT. D.3		
16 OF 44		



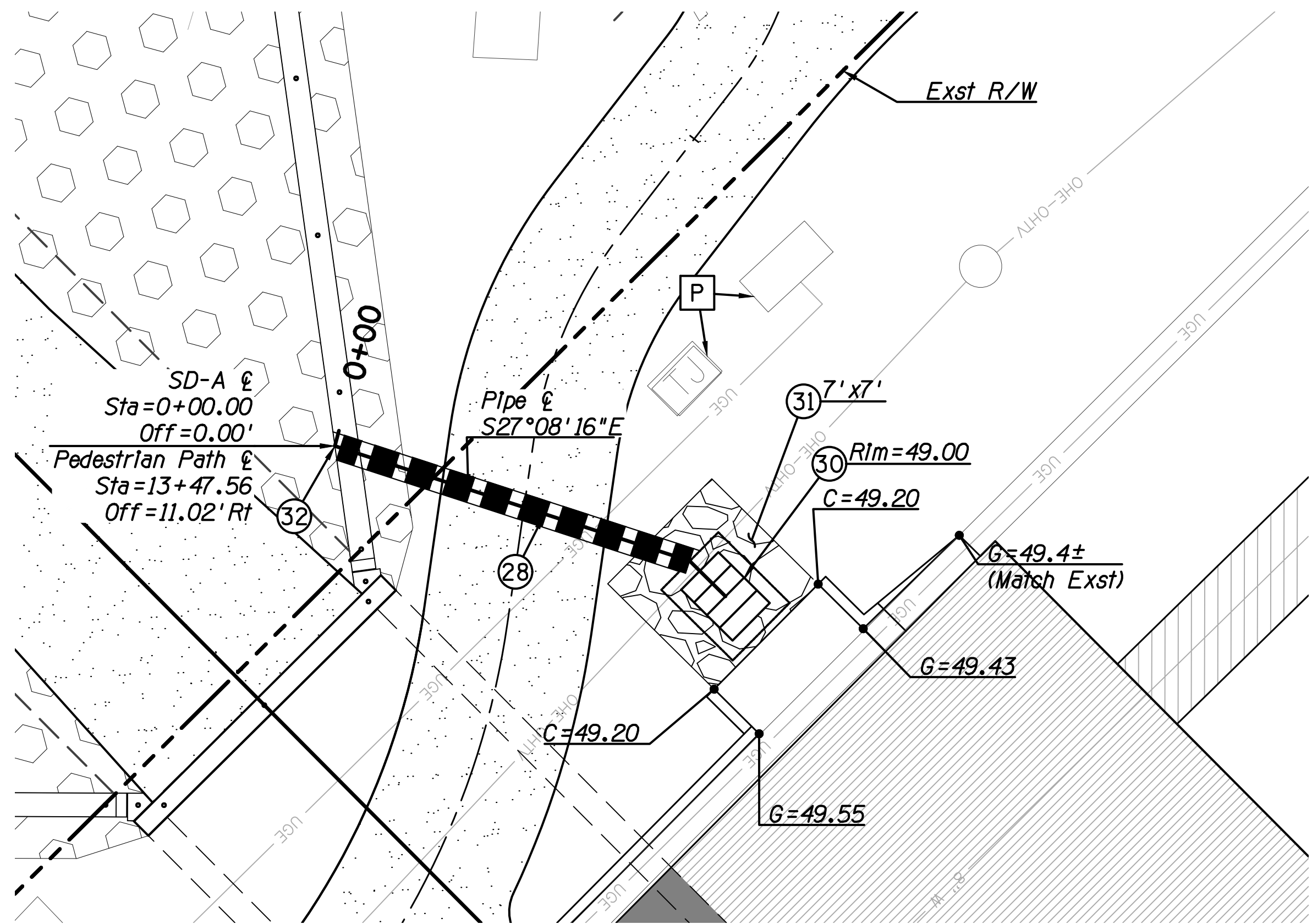
- Notes:**
- See Sht D6 for Point Tables
 - Path and Sidewalk Grade Shall Not Exceed 2% Cross-slope and 5% Longitudinal Slopes In Accordance with ADA Requirements Unless Noted Otherwise. The Contractor Shall Exercise Care In Areas Where Design Slopes are Greater than 1.5% Cross-slope and 4% Longitudinal Slope, Including Additional Stakes and Field Verification/Adjustments Prior to Construction to Ensure that this Requirement Is Met.
 - The Entirety of the Project Limits are within the Floodplain and Floodway.



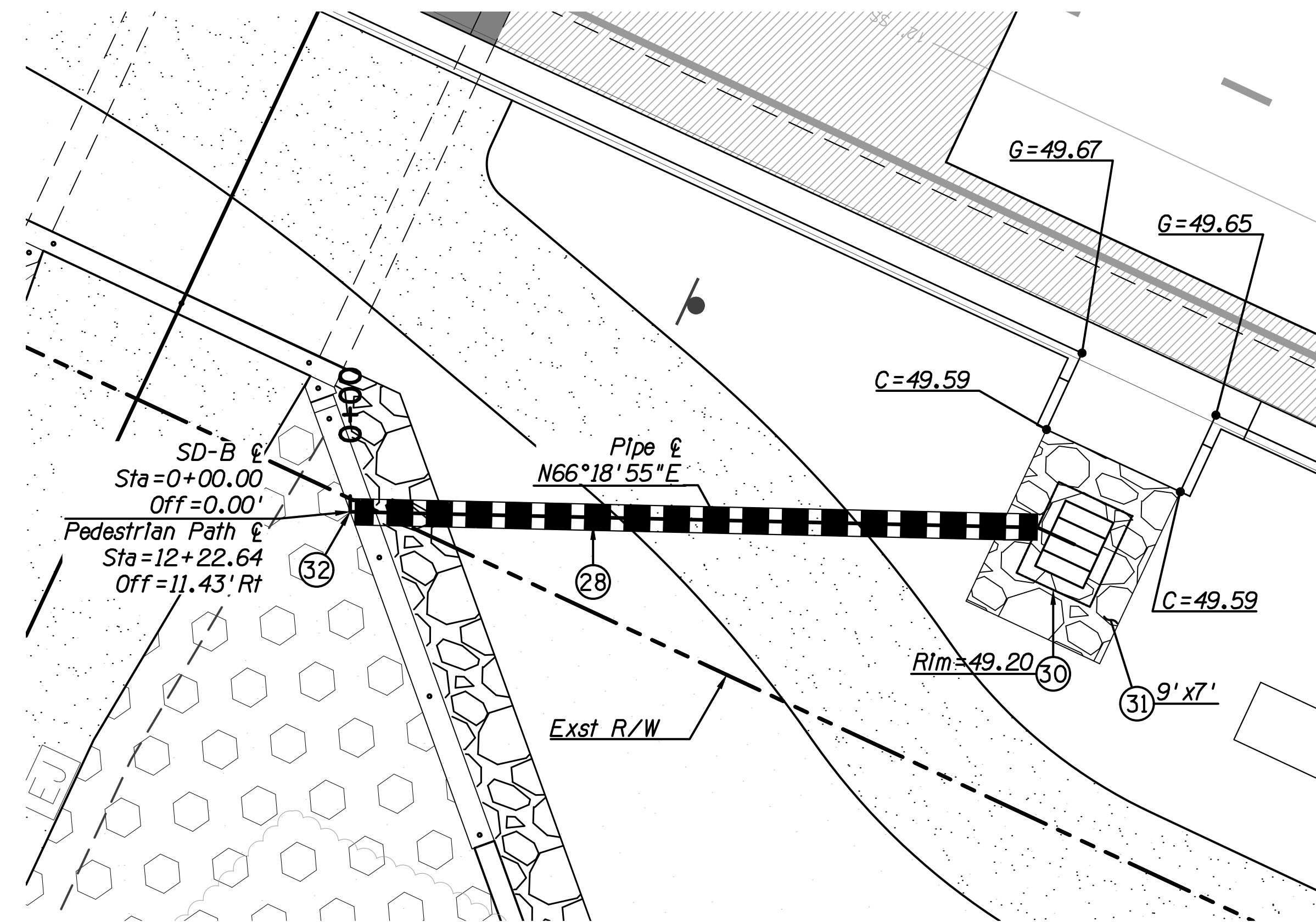
DATE	REVISION	BY
ENGINEER		
PUBLIC WORKS		CAPITAL PROJECT MANAGEMENT
7447 E. INDIAN SCHOOL RD.		SCOTTSDALE, ARIZONA 85251
SHEET TITLE CHAPARRAL ROAD GRADING & STAKING PLAN		
PROJECT TITLE INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE	DESIGNED	DATE
HORIZ. 1"=10'	KB	08/23
VERT. -	DRWN	AS-BUILT
PROJECT NO.		BID NO.
410-SF01A-56047		17 OF 44

PLOT DATE: 8/24/2023 9:56 AM

DESIGN FILE: P:\2015001-10\ENGINEERING\CADD\PRODUCTION\SHEETS\15001-100_SD001.DWG



SD-A
North Side of
Chaparral Road



SD-B
South Side of
Chaparral Road

olsson

REMOVAL & RELOCATION NOTES

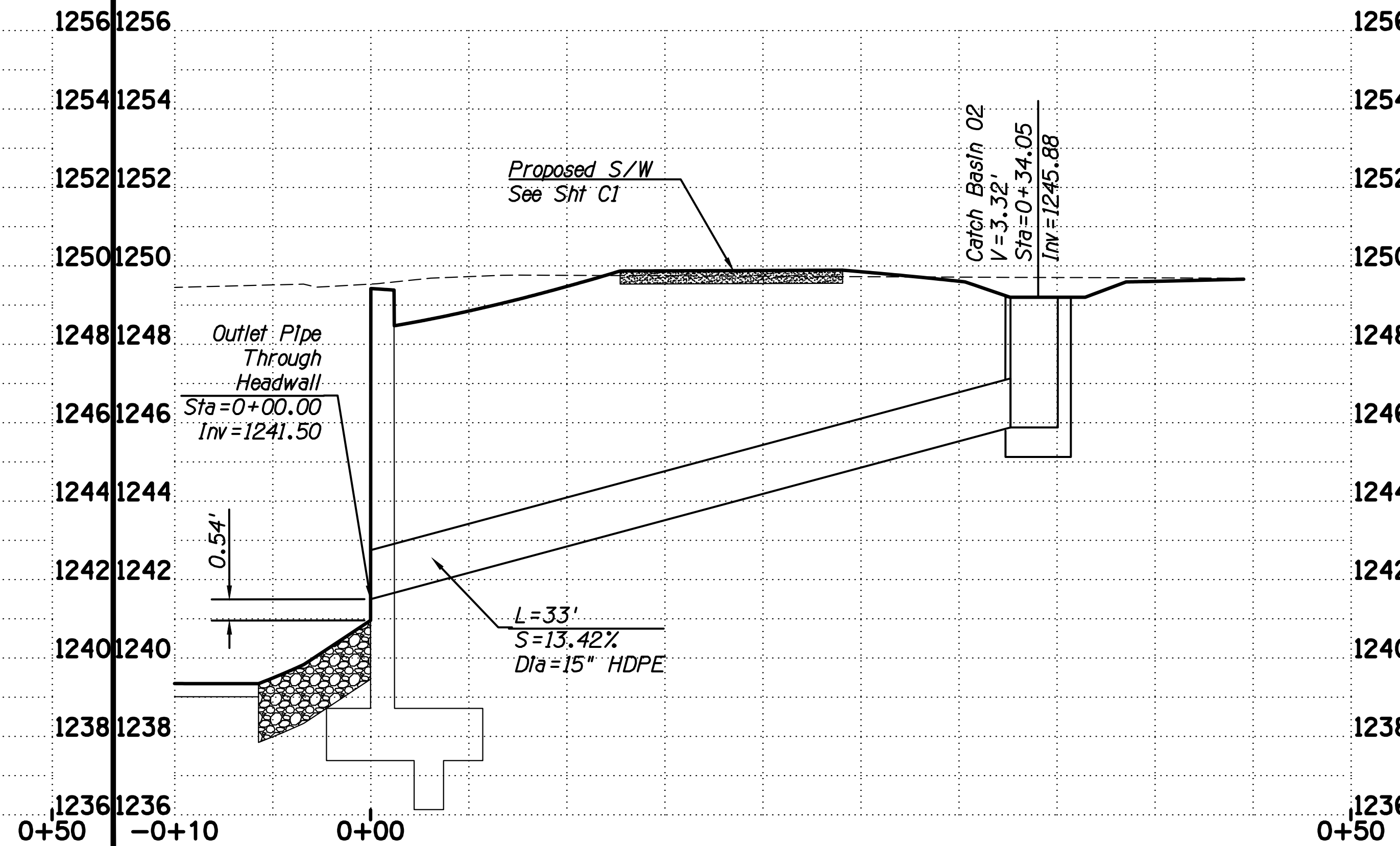
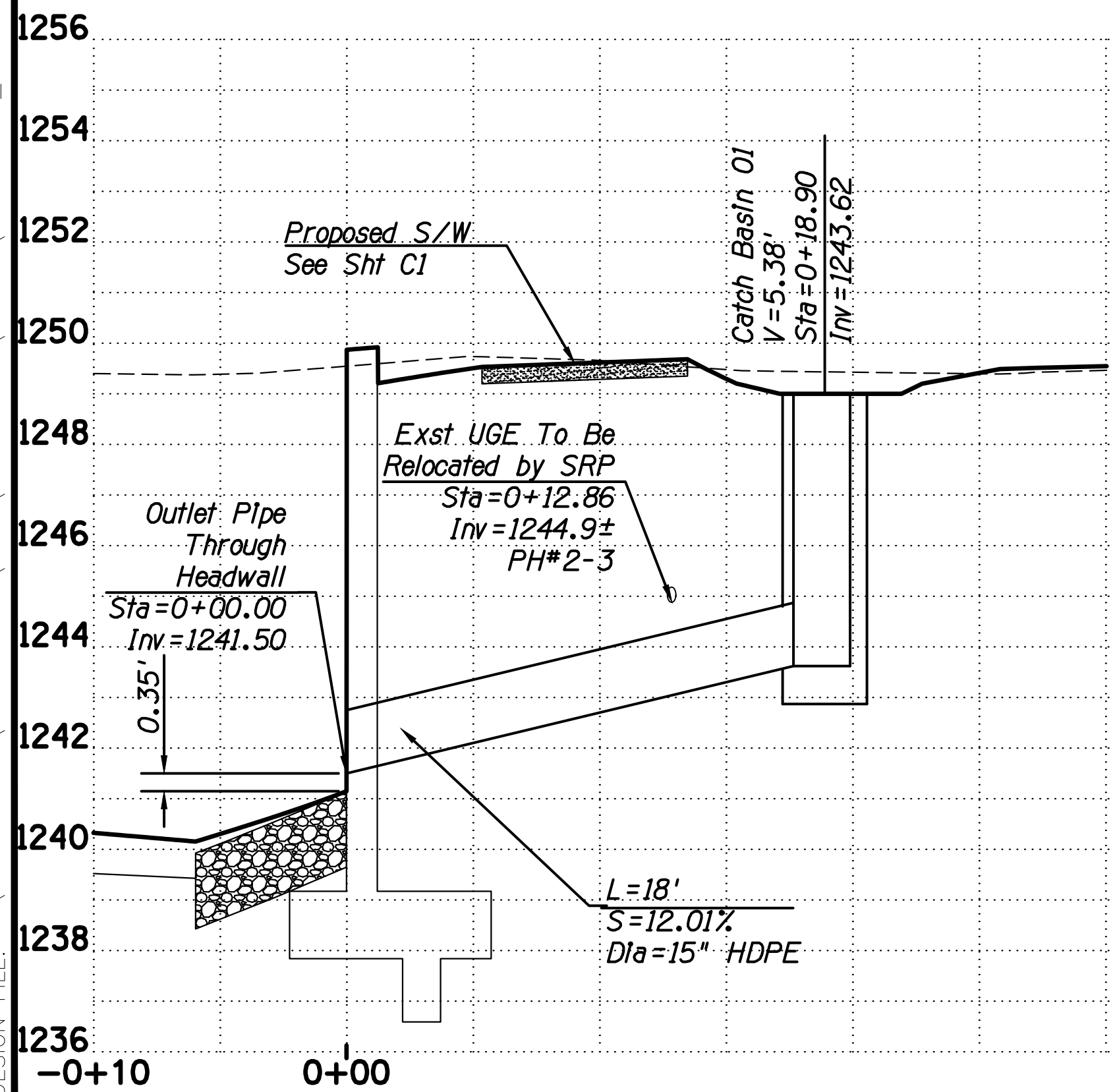
Description	Unit	Quan
-------------	------	------

CONSTRUCTION NOTES

Description	Unit	Quan
28 15" HDPE Storm Pipe	LF	51
30 Catch Basin per MAG 535, Type F w/ COS 2535 Grate	EA	2
31 Grouted Riprap Apron per Dtl 2, Sht C4	CY	6
32 Punch Pipe Through Wall per Dtl 5, Sht S4. Cut Pipe End to Match Flush with Face of Wall, Grout Solid	-	NPI

GENERAL NOTES

P Protect In Place

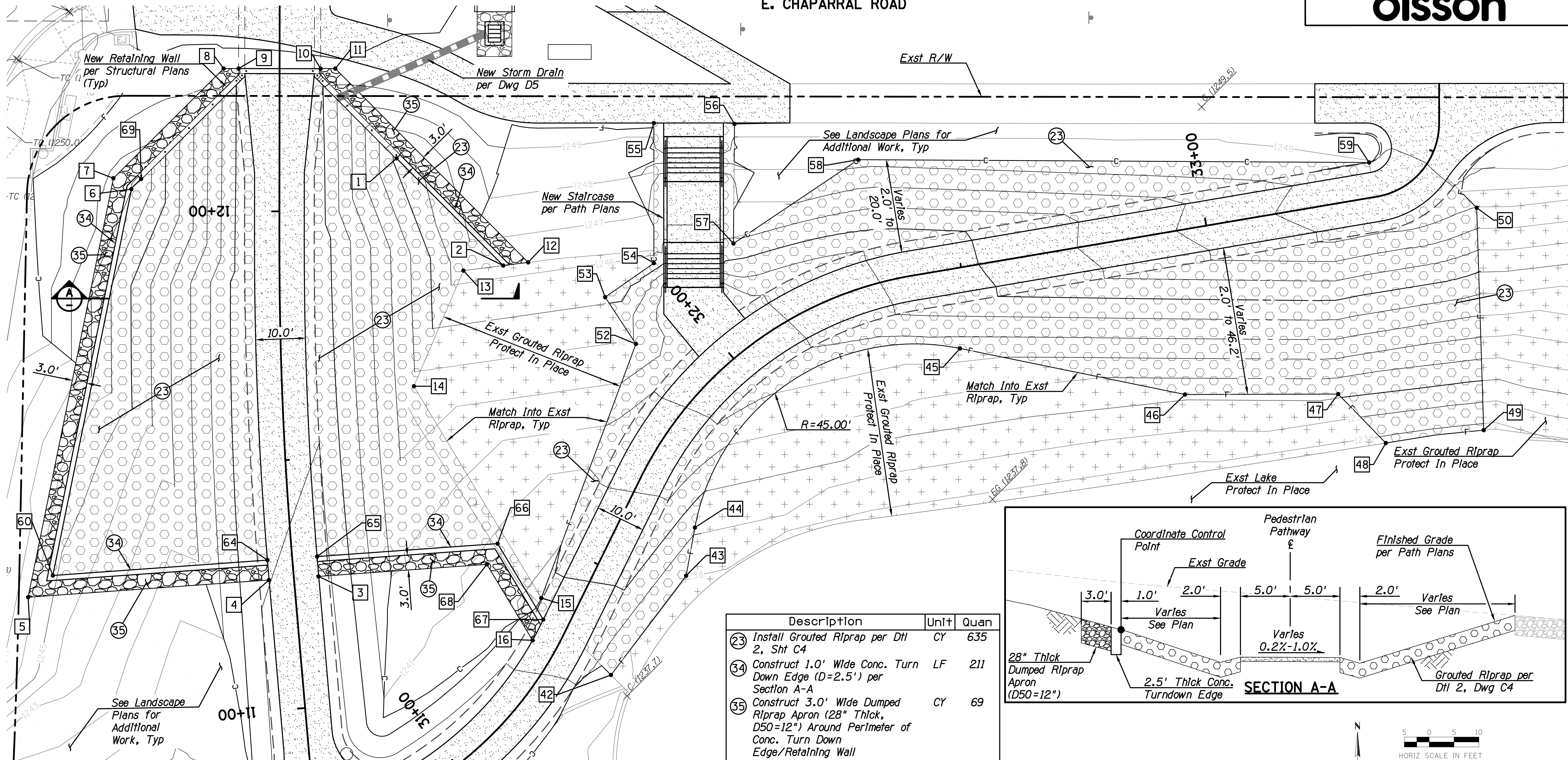


DATE	REVISION	BY
ENGINEER		
SHEET TITLE	PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251	
PROJECT TITLE	STORM DRAIN PLAN & PROFILE INDIAN BEND WASH PATH AT CHAPARRAL ROAD	
SCALE	DESIGNED	DATE
HORIZ. 1"=5'	KB	08/23
VERT. 1"=2'	KR	AS-BUILT
	BID NO.	SHT.
	410-SF01A-56047	D5
	18 OF 44	

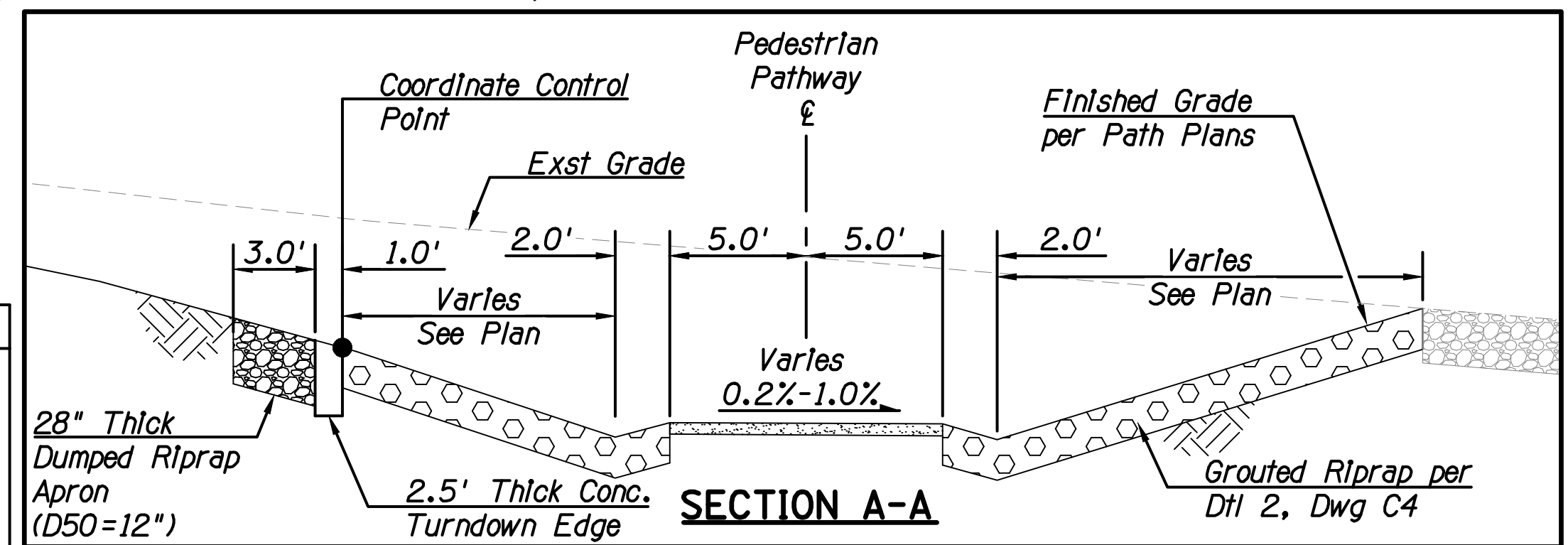
3705-22

PLOT DATE: 8/24/2023 9:58 AM

DESIGN FILE: P:\2015001-10\ENGINEERING\CADD\PRODUCTION\SHEETS\15001-100_SP01.DWG



Description	Unit	Quan
23 Install Grouted Riprap per Dtl 2, Sht C4	CY	635
34 Construct 1.0' Wide Conc. Turn Down Edge (D=2.5') per Section A-A	LF	211
35 Construct 3.0' Wide Dumped Riprap Apron (28" Thick, D50=12") Around Perimeter of Conc. Turn Down Edge/Retaining Wall	CY	69



*Coordinates for Concrete Turn Down are the Side Adjacent to the Grouted Rip Rap

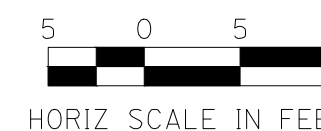
Pt.	Station	Offset	Alignment
1	12+10.69	23.53' Rt	Ped Path
2	11+88.89	44.99' Rt	Ped Path
3	11+26.12	4.96' Rt	Ped Path
4	11+26.26	5.04' Lt	Ped Path
5	11+26.97	53.56' Lt	Ped Path
6	12+04.44	29.76' Lt	Ped Path
7	12+06.62	33.38' Lt	Ped Path
8	12+28.70	11.25' Lt	Ped Path

Pt.	Station	Offset	Alignment
9	12+28.70	8.25' Lt	Ped Path
10	12+28.68	8.25' Rt	Ped Path
11	12+28.72	11.20' Rt	Ped Path
12	11+89.55	50.00' Rt	Ped Path
13	11+87.87	36.99' Rt	Ped Path
14	11+63.84	26.50' Rt	Ped Path
15	11+17.94	49.21' Rt	Ped Path
16	11+09.63	46.72' Rt	Ped Path

Pt.	Station	Offset	Alignment
42	31+31.62	12.19' Rt	Ped Path E
43	31+55.77	16.88' Rt	Ped Path E
44	31+65.24	14.20' Rt	Ped Path E
45	32+47.05	16.04' Rt	Ped Path E
46	32+90.10	32.75' Rt	Ped Path E
47	33+20.46	37.82' Rt	Ped Path E
48	33+28.26	49.13' Rt	Ped Path E
49	33+37.85	51.21' Rt	Ped Path E

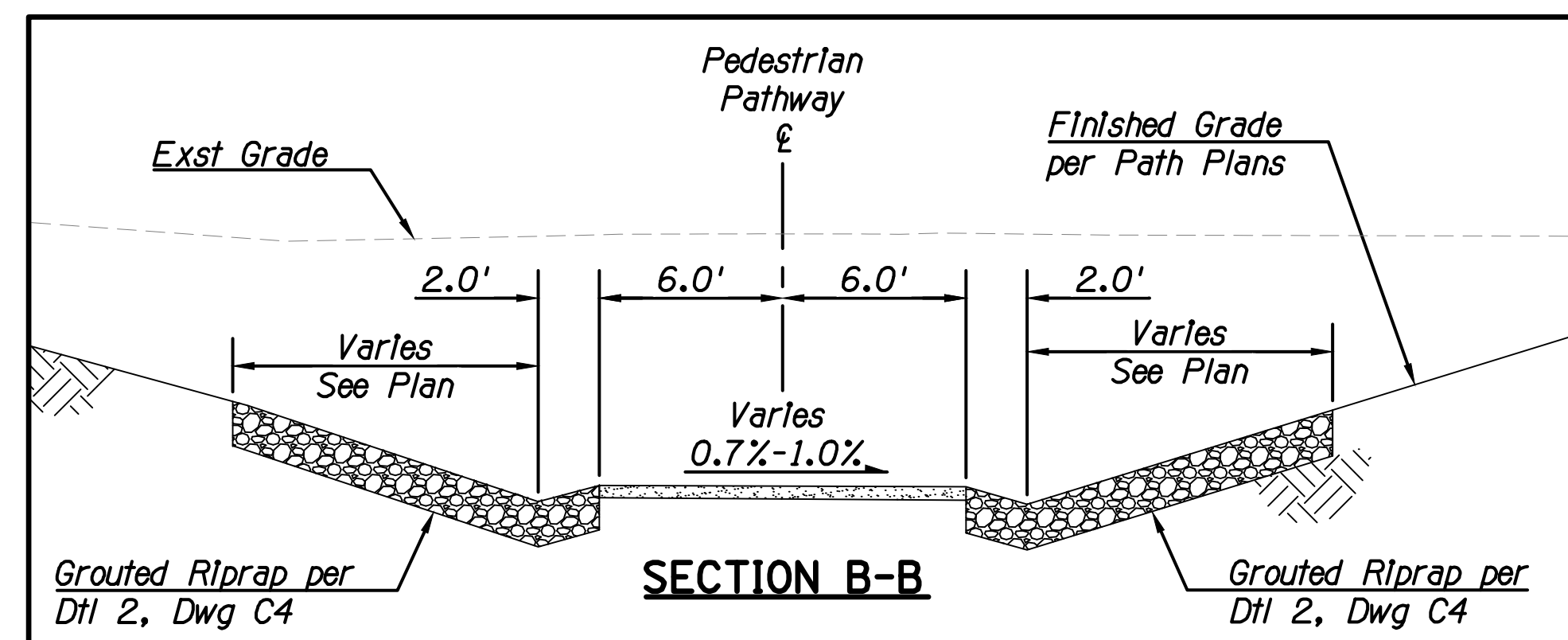
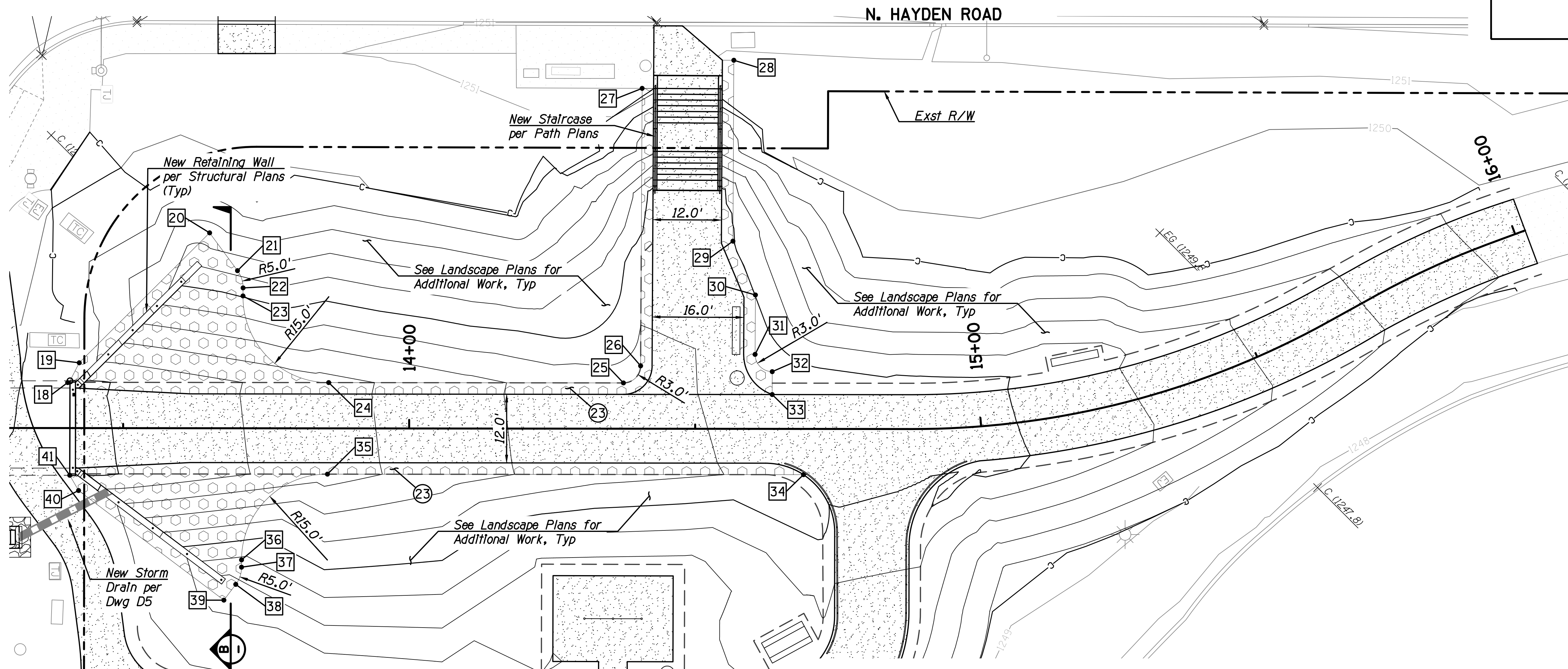
Pt.	Station	Offset	Alignment
50	33+46.15	13.26' Rt	Ped Path E
52	31+89.16	15.93' Lt	Ped Path E
53	31+91.34	26.84' Lt	Ped Path E
54	32+00.12	25.05' Lt	Ped Path E
55	32+11.24	47.91' Lt	Ped Path E
56	32+20.19	40.06' Lt	Ped Path E
57	32+11.96	18.91' Lt	Ped Path E
58	32+34.94	25.04' Lt	Ped Path E

Pt.	Station	Offset	Alignment
59	33+34.39	7.02' Lt	Ped Path E
60*	11+30.70	48.24' Lt	Ped Path
64*	11+30.25	4.99' Lt	Ped Path
65*	11+30.13	5.01' Rt	Ped Path
66*	11+29.70	41.39' Rt	Ped Path
67*	11+13.60	49.23' Rt	Ped Path
68	11+25.62	38.88' Rt	Ped Path
69*	12+06.50	27.80' Lt	Ped Path



DATE	REVISION	BY
ENGINEER		
PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE		
SCOUR PROTECTION PLAN		
PROJECT TITLE		
INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE	DESIGNED DR	DATE
HORIZ. 1"=10'	AS-BUILT	08/23
VERT. -	DRAWN KR	PROJECT NO.
		410-SF01A-56047
		BID NO.
		SHT. D7
		20 OF 44

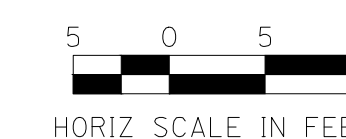
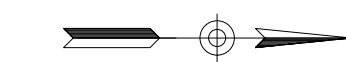
3705-22



CONSTRUCTION NOTES			
Description	Unit	Quan	
23 Install Grouted Riprap per Dtl 2, Sht C4	CY	85	

Point Table			
Pt.	Station	Offset	Alignment
18	13+40.70	8.25' Lt	Ped Path
19	13+42.32	11.41' Lt	Ped Path
20	13+65.08	34.15' Lt	Ped Path
21	13+69.96	27.54' Lt	Ped Path
22	13+70.94	24.53' Lt	Ped Path
23	13+70.93	23.13' Lt	Ped Path
24	13+85.92	8.00' Lt	Ped Path
25	14+37.45	8.00' Lt	Ped Path
26	14+40.45	10.99' Lt	Ped Path
27	14+40.66	59.49' Lt	Ped Path
28	14+56.69	64.42' Lt	Ped Path
29	14+56.57	32.80' Lt	Ped Path

Point Table			
Pt.	Station	Offset	Alignment
30	14+60.51	23.40' Lt	Ped Path
31	14+60.46	13.01' Lt	Ped Path
32	14+63.46	10.00' Lt	Ped Path
33	14+63.46	6.00' Lt	Ped Path
34	14+68.95	8.00' Rt	Ped Path
35	13+85.73	8.00' Rt	Ped Path
36	13+70.73	23.00' Rt	Ped Path
37	13+70.73	24.28' Rt	Ped Path
38	13+69.72	27.28' Rt	Ped Path
39	13+67.65	30.04' Rt	Ped Path
40	13+42.22	10.91' Rt	Ped Path
41	13+40.68	8.25' Rt	Ped Path

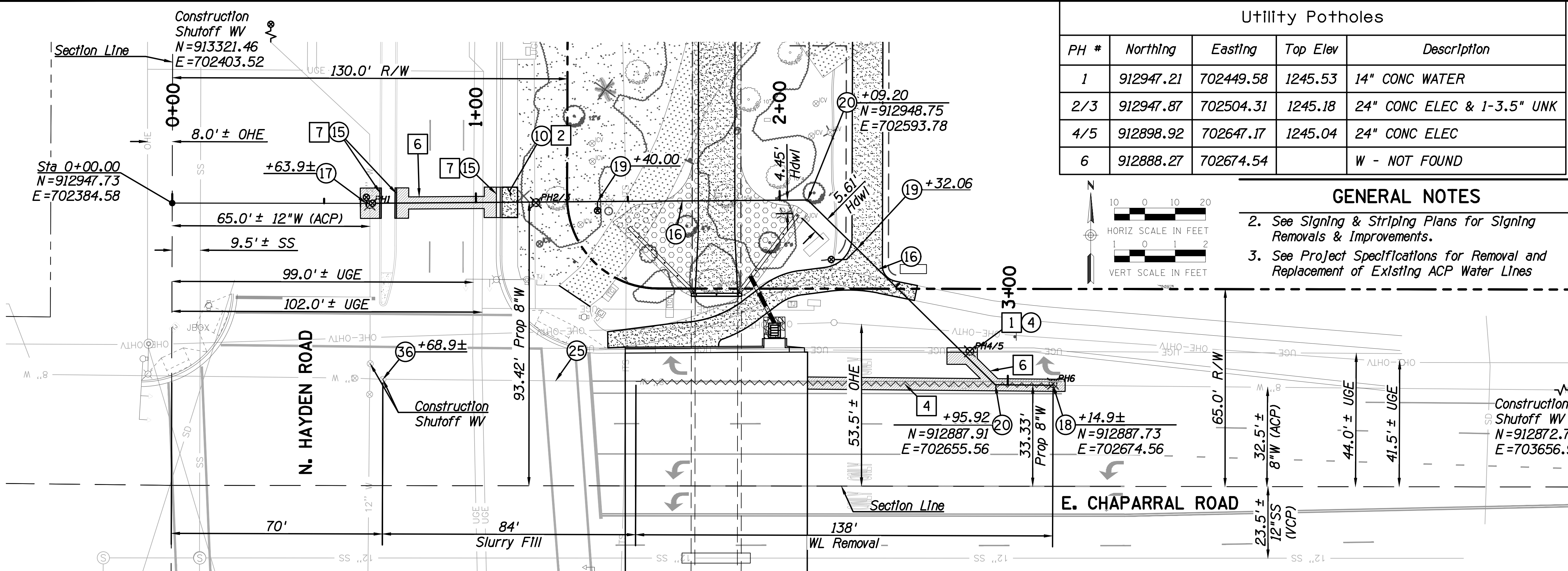


Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA 811
 Call 811 or click Arizona811.com

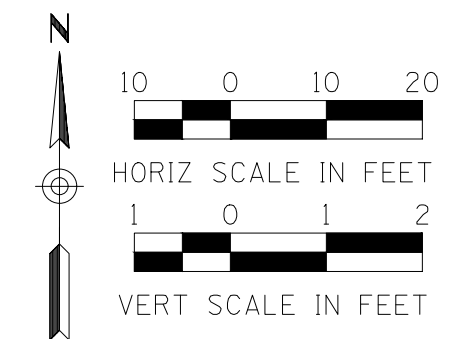
DATE	REVISION	BY
ENGINEER PUBLIC WORKS CAPITAL PROJECT MANAGEMENT		7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251
SHEET TITLE SCOUR PROTECTION PLAN		
PROJECT TITLE INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE HORIZ. 1"=10' VERT. -	DESIGNED DR DRAWN KR	DATE 08/23 AS-BUILT PROJECT NO. 410-SF01A-56047
BID NO.		SHT. D8 21 OF 44

PLOT DATE: 8/25/2023 12:01 PM

DESIGN FILE: P:\2015001-10\ENGINEERING\CADD\PRODUCTION\SHEETS\15001-10\WLO1.DWG



PH #	Northing	Easting	Top Elev	Description
1	912947.21	702449.58	1245.53	14" CONC WATER
2/3	912947.87	702504.31	1245.18	24" CONC ELEC & 1-3.5" UNK
4/5	912898.92	702647.17	1245.04	24" CONC ELEC
6	912888.27	702674.54		W - NOT FOUND



GENERAL NOTES

- See Signing & Striping Plans for Signing Removals & Improvements.
- See Project Specifications for Removal and Replacement of Existing ACP Water Lines

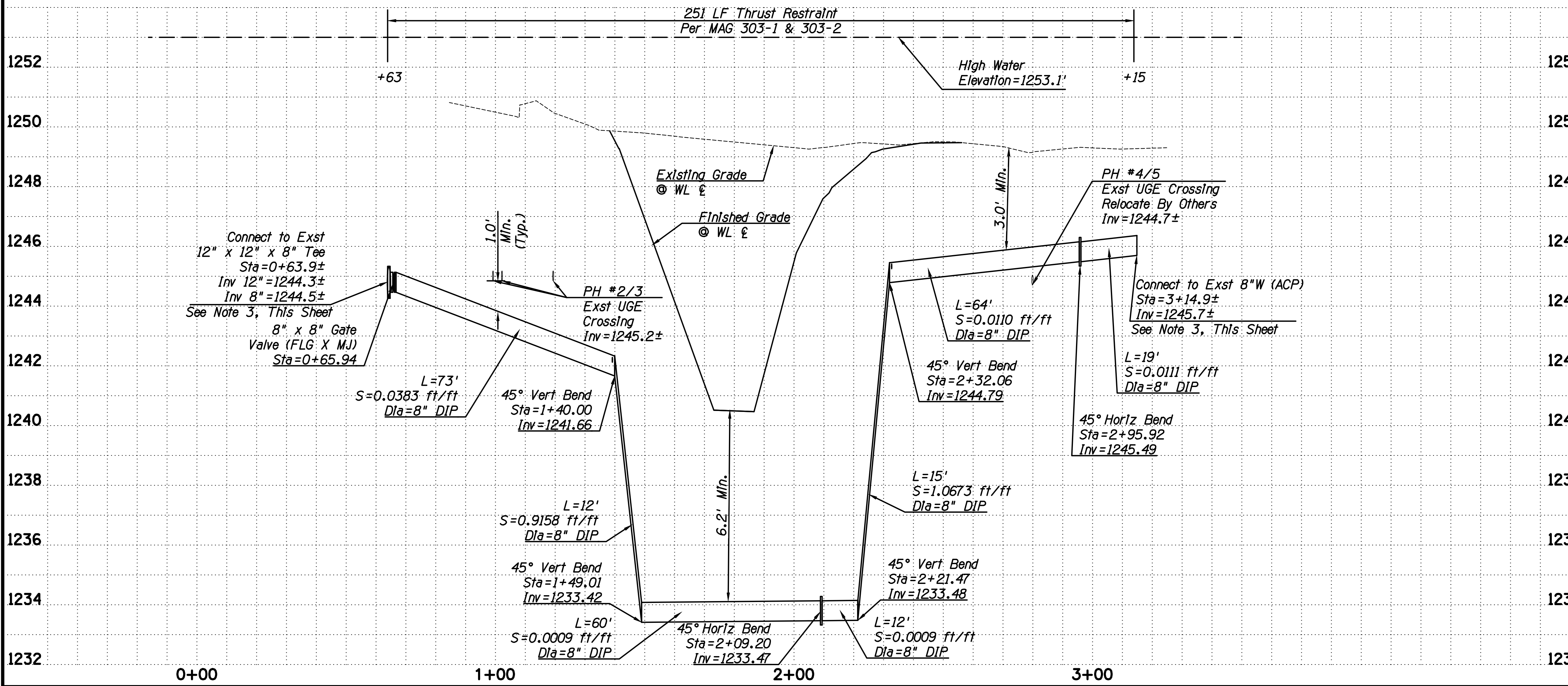
olsson

REMOVAL & RELOCATION NOTES

Description	Unit	Quan
1 Remove Curb, Ribbon Curb	LF	10
2 Sawcut & Remove Concrete Sidewalk, Pathway, & Slabs	SF	51
4 Remove 8" Water Pipe & Backfill per COS 2201. See Note 3, This Sheet	LF	137
6 Sawcut, Remove, & Replace AC Pavement per COS 2200	SY	72
7 Remove Curb, Vertical Curb & Gutter	LF	30

CONSTRUCTION NOTES

Description	Unit	Quan
4 Type B Ribbon Curb per MAG 220	LF	10
10 Concrete Path per MAG 230, 5" Thick	SF	51
15 Type A Vertical Curb per MAG 220	LF	30
16 Install 8" DIP, CL 350 Water Line w/ Blue Polywrap and Marking Tape per COS DS&PM. Electronic Markers per COS 2397	LF	253
17 Connect to Exst 12" ACP Water		
Main 12"x12"x8" Tee	NPI	-
12" Gate Valve per MAG 391. Box & Cover per MAG 391-C	EA	1
8" Gate Valve per MAG 391. Box & Cover per MAG 391-C	EA	1
12" Coupling	NPI	-
18 Connect to Exst 8" ACP Water		
Main 8" Coupling	NPI	-
19 Install 2" Air/Vacuum Release Valve per COS 2348	EA	2
20 Install 8" 45° Bend	NPI	-
25 Abandon Existing Waterline In Place. Fill Pipe with Slurry. (Misc)	LF	84
36 Permanently Close Water Valve Prior to Slurry Pipe Fill.	NPI	-



GENERAL NOTES

P Protect In Place

- See Landscaping Plans for Landscaping Removals & Improvements.

Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA811
Call 811 or click Arizona811.com

DATE	REVISION	BY

ENGINEER: *Matthew K. Tsark*

CITY OF SCOTTSDALE
PUBLIC WORKS
CAPITAL PROJECT MANAGEMENT
7447 E. INDIAN SCHOOL RD.
SCOTTSDALE, ARIZONA 85251

ARIZONA PROFESSIONAL ENGINEER
MATTHEW K. TSARK
LICENSE NO. 12345
EXPIRES 12/31/2024

SHEET TITLE: **WATERLINE RELOCATION PLAN**

PROJECT TITLE: **INDIAN BEND WASH PATH AT CHAPARRAL ROAD**

SCALE	DESIGNED	DATE	BID NO.	SHT. NO.
HORIZ. 1"=20'	MT	08/23		WI
VERT. 1"=2'	KR	AS-BUILT	410-SF01A-56047	22 OF 44

3705-22

STRUCTURAL NOTES:

Construction Specifications - Maricopa Association of Governments (MAG). "Uniform Standard Specifications for Public Works Construction", 2020 Edition.

Design Specifications -
AASHTO LRFD Bridge Design Specifications, 9th Edition, 2020

Live Load -
Loading Class HL-93.

Soil Loading -
Per Geotechnical Investigation by Premier Engineering Corporation Dated October 22, 2020:

Unit Weight of Soil..... 110 pcf
Active Soil Pressure..... 36 psf/ft
At-Rest Soil Pressure..... 56 psf/ft
Effective Friction Angle..... 29°
Coefficient of Base Friction..... 0.40

Seismic -
Crossing site is classified as Seismic Site Class D per IBC. With a peak ground acceleration $A_s = 0.097g$ and spectral acceleration $S_{DS} = 0.20g$ and $S_{D1} = 0.097g$ at 1 sec, as modified by the appropriate site factors.

Structural steel shall conform to ASTM Specification A36 unless noted otherwise.

All concrete shall be Class "AA" unless noted otherwise.

Reinforcing steel shall conform to ASTM Specification A615. All reinforcing steel shall be furnished as Grade 60.

All bends and hooks shall meet the requirements of AASHTO Article 5.10.2. All bend dimensions for reinforcing steel shall be out-to-out of bars. All placement dimensions for reinforcing steel shall be to center of bars unless noted otherwise.

All reinforcing steel shall have 2 Inches clear cover unless noted otherwise.

All welding shall conform to the requirements of the American Welding Society, ANSI/AASHTO/AWS D1.5 Bridge Welding Code, Latest Edition.

Material strengths (unless noted otherwise):

Concrete Class "AA"..... $f'_c = 4.0$ ksi
Reinforcing Steel..... $f_y = 60.0$ ksi

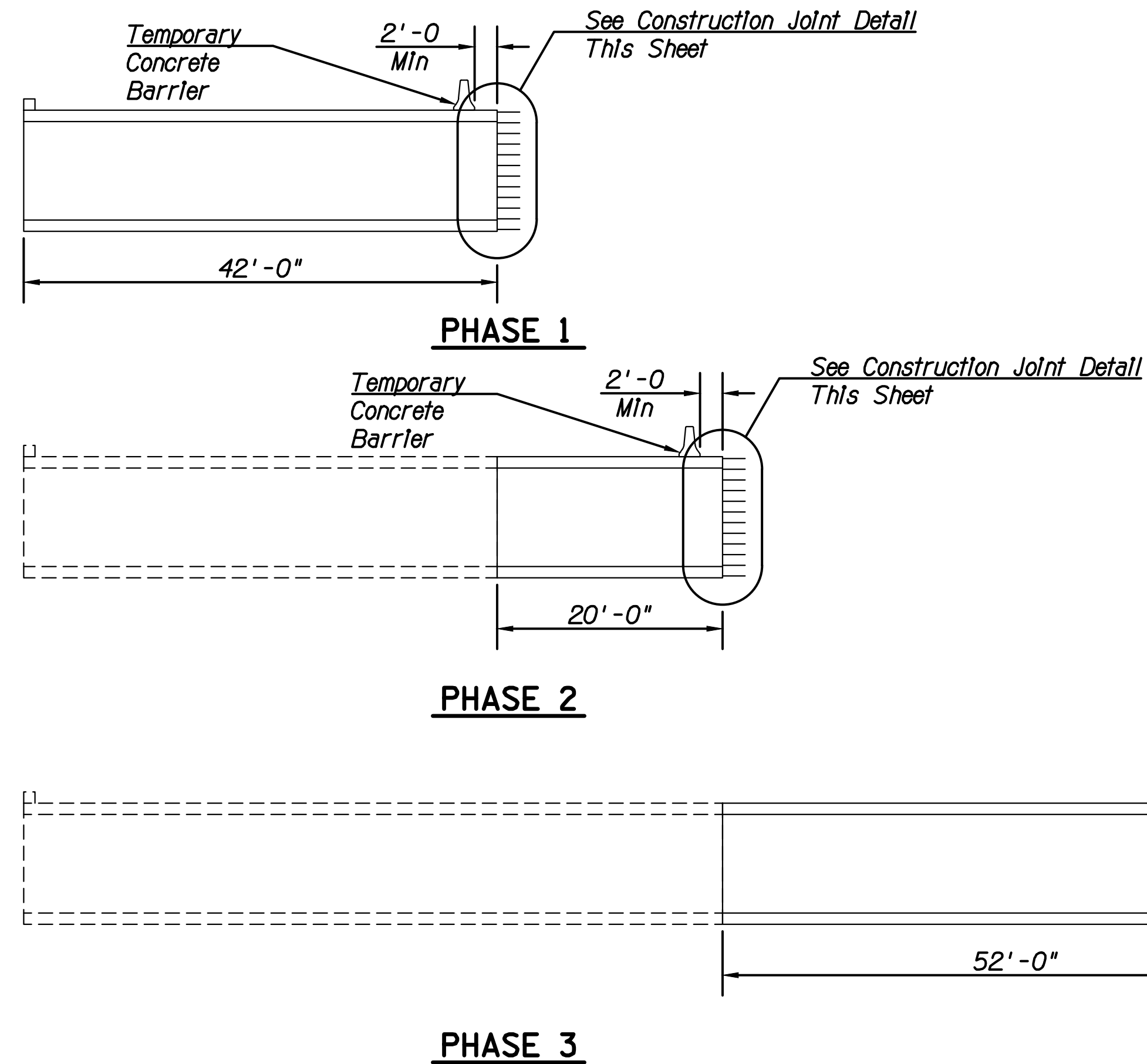
The pedestrian underpass and retaining walls shall have a color applied to the concrete mix. See special provisions.

Chamfer all exposed corners $\frac{3}{4}$ " unless noted otherwise.

Dimensions shall not be scaled from drawings.

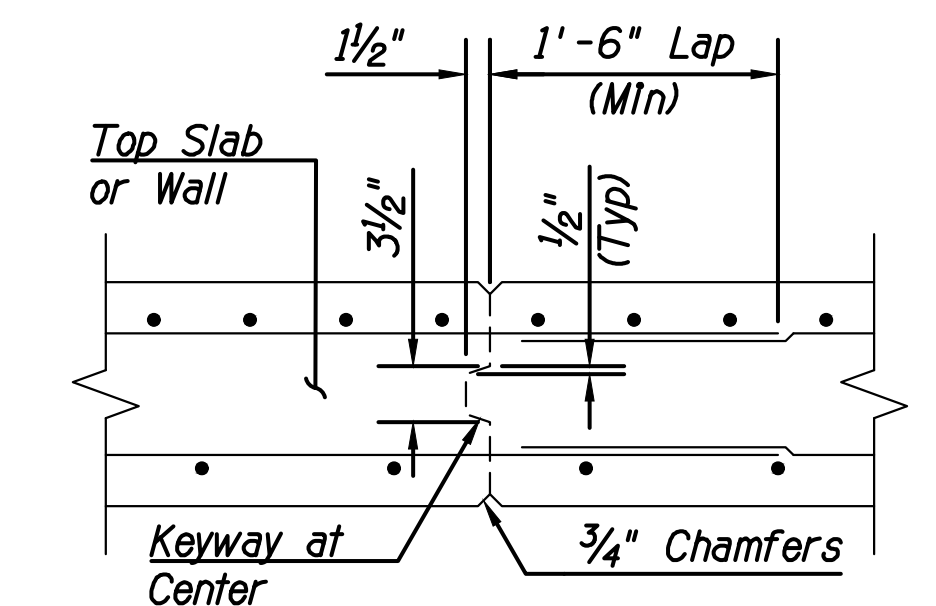
STANDARDS:

ADOT Structural Detail Drawings, SD 7.01



① PHASING SEQUENCE
Scale: 1"=10'

Notes:
1. See Roadway Plans For Traffic Phasing Details.



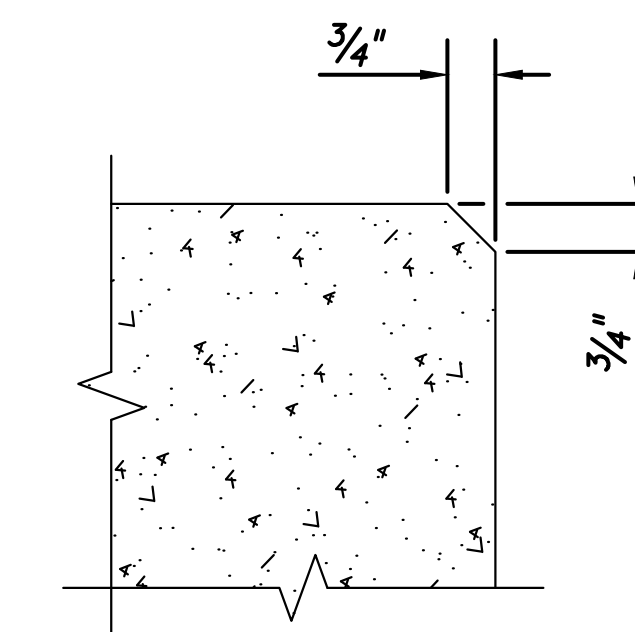
② CONSTRUCTION JOINT DETAIL
Not To Scale

LEGEND

DETAIL Marker ①

SECTION Marker A A

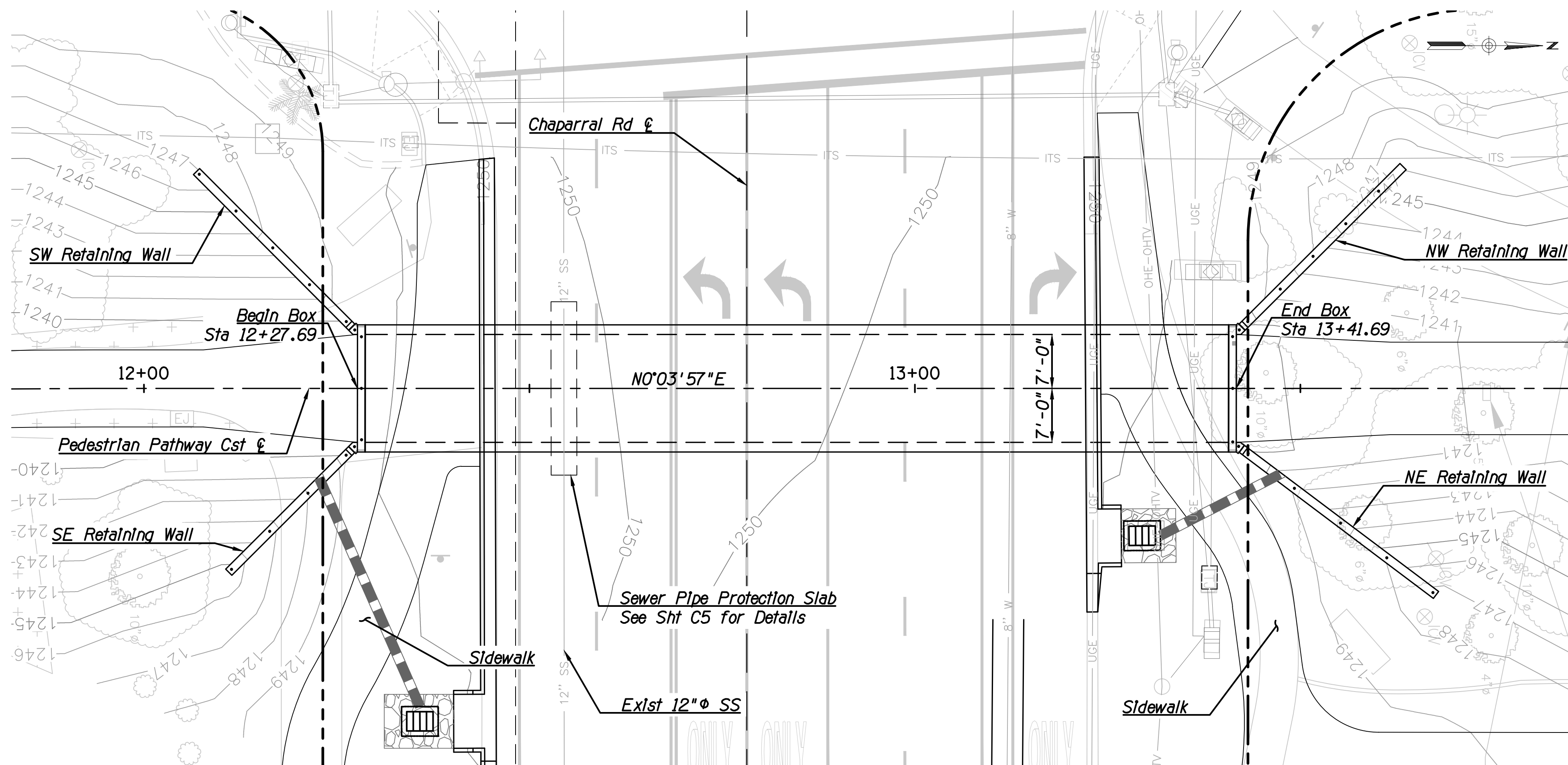
Approximate Quantities						
Item Number	206001	206101	505608	505501	520009	505822
Item	Structural Excavation	Structural Backfill	Concrete (4000 psi)	Reinforcing Steel	Handrail	Retaining Wall
	(CY)	(CY)	(CY)	(LBS)	(LF)	(SF)
Underpass	930	265	236	53540	38	0
SW Wall	0	0	0	0	28	308
SE Wall	0	0	0	0	22	226
NW Wall	0	0	0	0	29	297
NE Wall	0	0	0	0	31	341
TOTAL	930	265	236	53540	148	1172



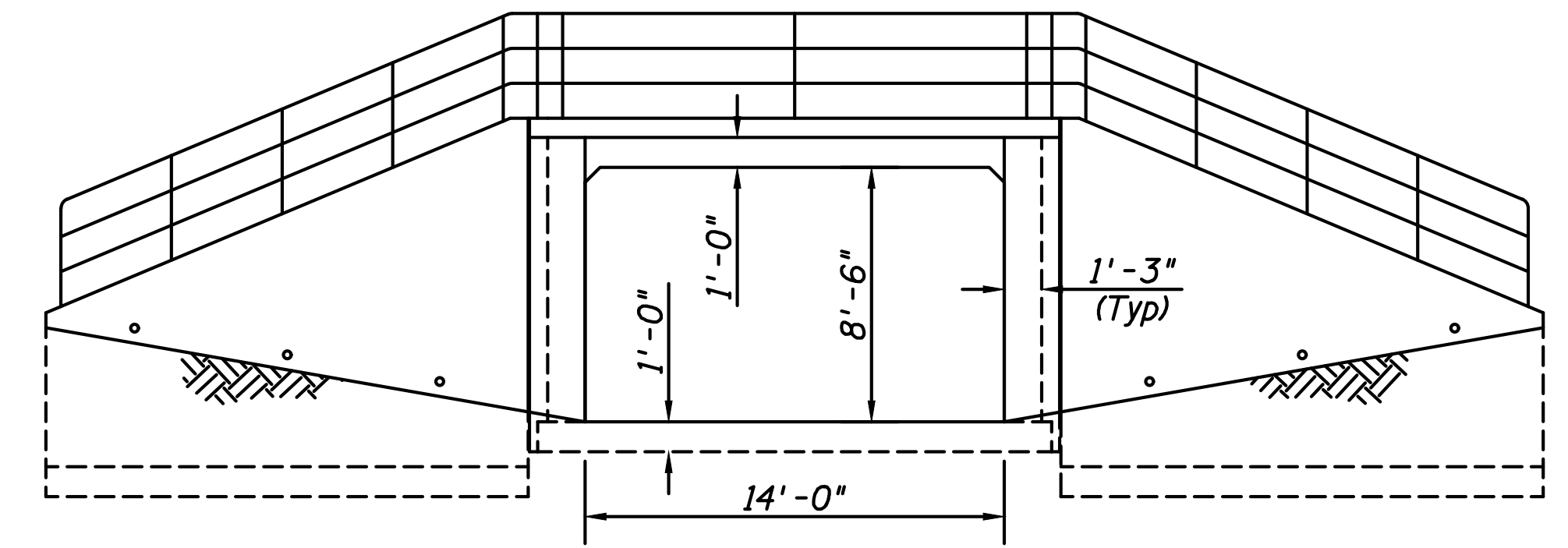
③ CHAMFER DETAIL
Not To Scale



DATE	REVISION	BY
PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE: STRUCTURAL NOTES & QUANTITIES		
PROJECT TITLE: INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE	DESIGNED	DATE
HORIZ. -	ATL	08/23
VERT. -	ATL	AS-BUILT
BID NO.	SHT. NO.	
410-SF01A-56047	23 OF 44	

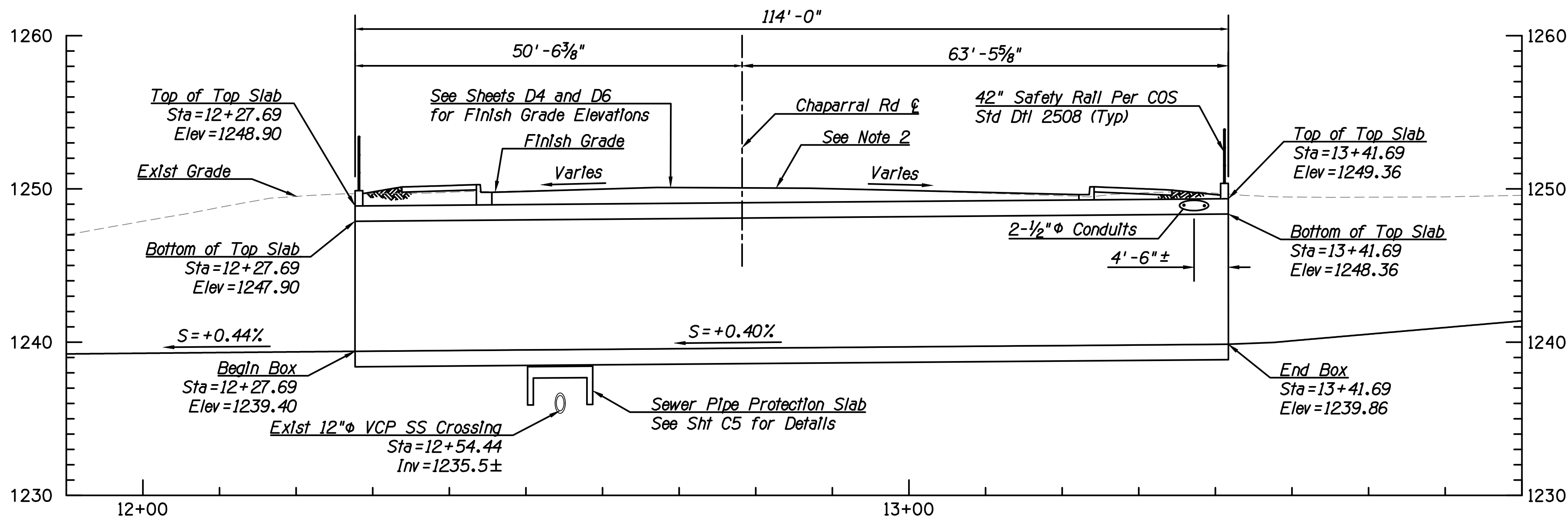


PLAN VIEW
 New 14' x 8'-6" x 114'
 Concrete Underpass Structure
 Skew = 0°00'00"
 1' Contour Interval
 Scale: 1" = 10'



ELEVATION
 Looking Ahead Station
 Scale: 1" = 5'

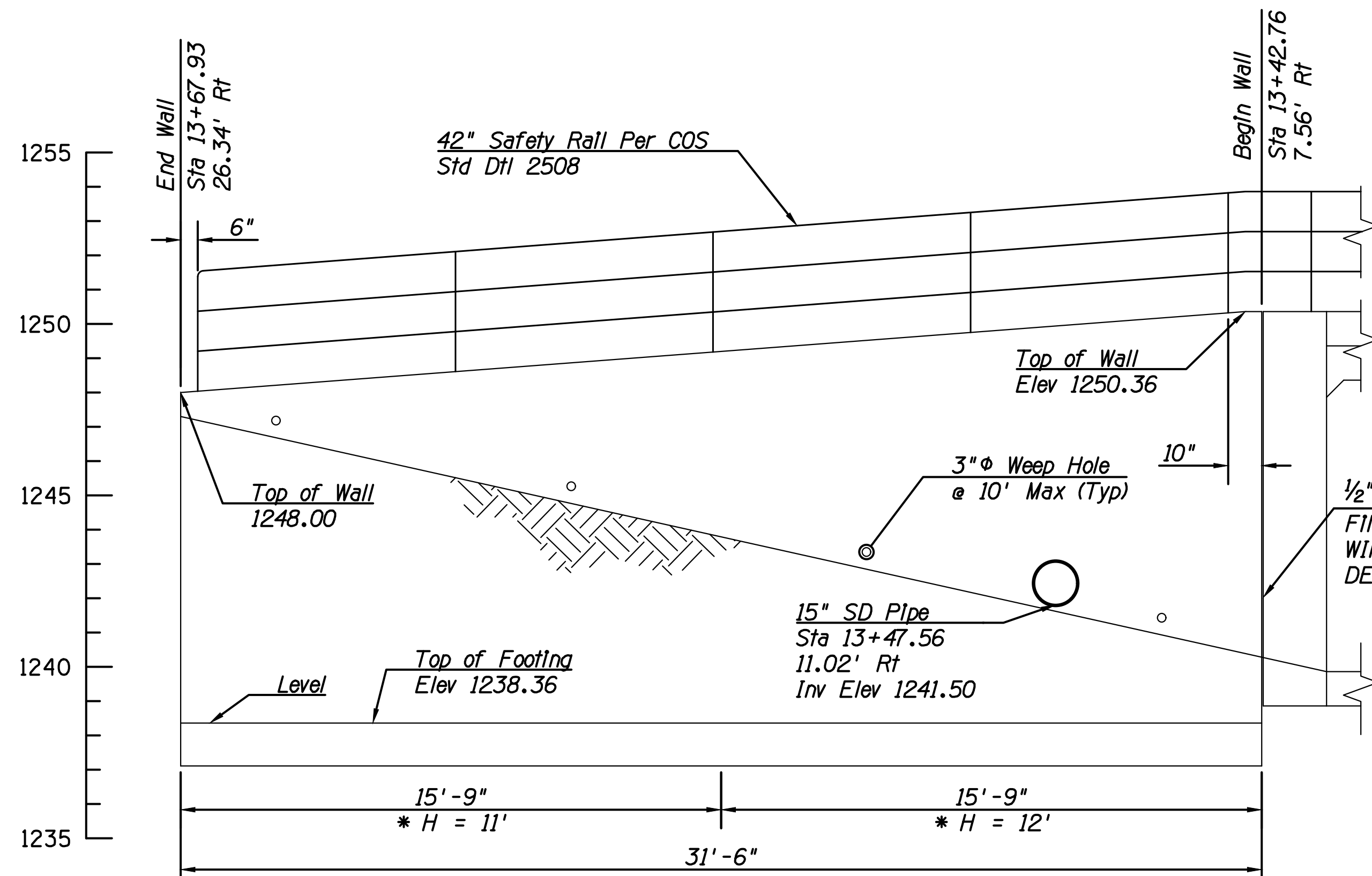
- Notes:
1. Stations, dimensions, and elevations are measured along Pedestrian Pathway Cst ξ , unless noted otherwise.
 2. For paving, curb, and sidewalk details, see Roadway Plans.



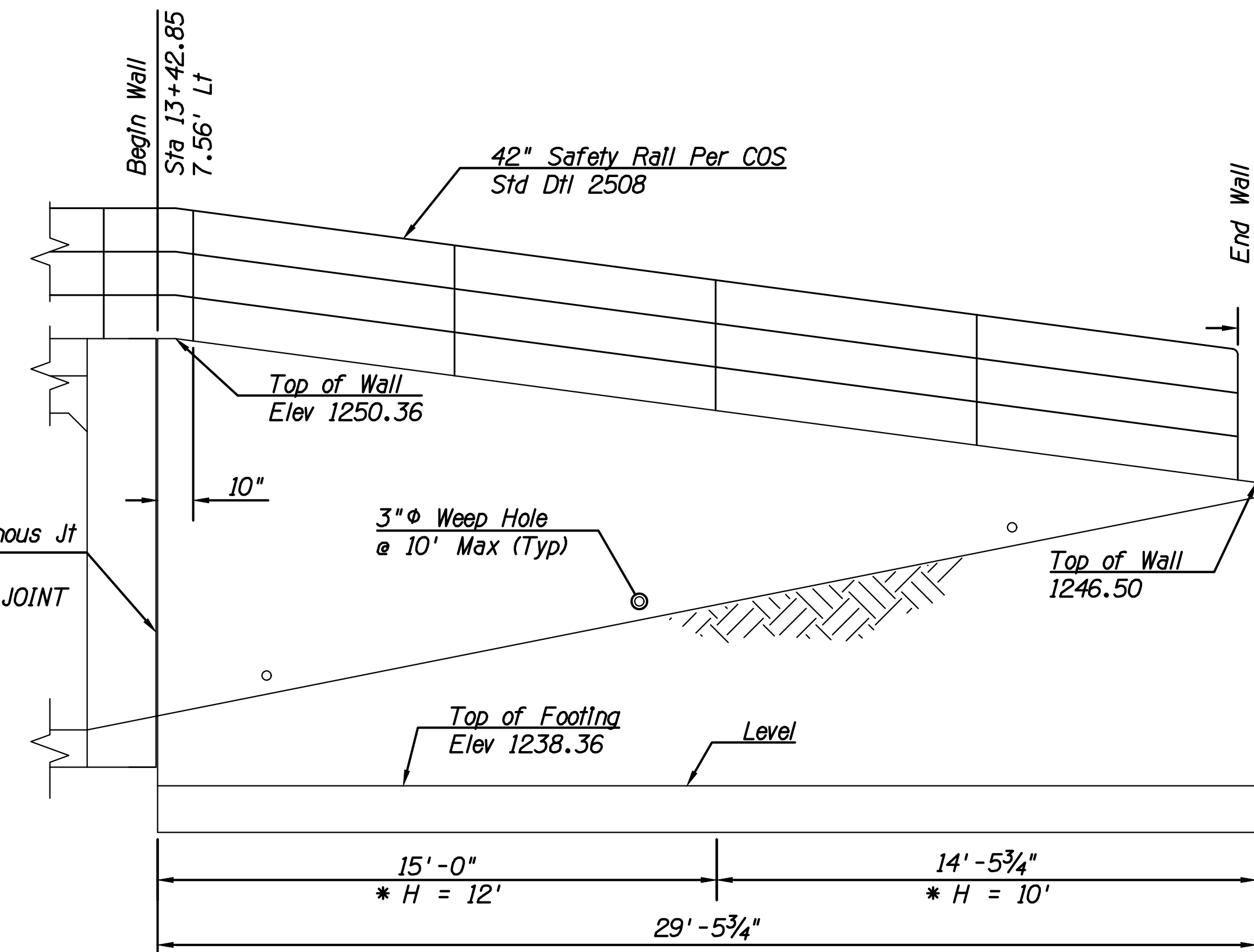
SECTION
 Vert Scale: 1" = 5'
 Horiz Scale: 1" = 10'



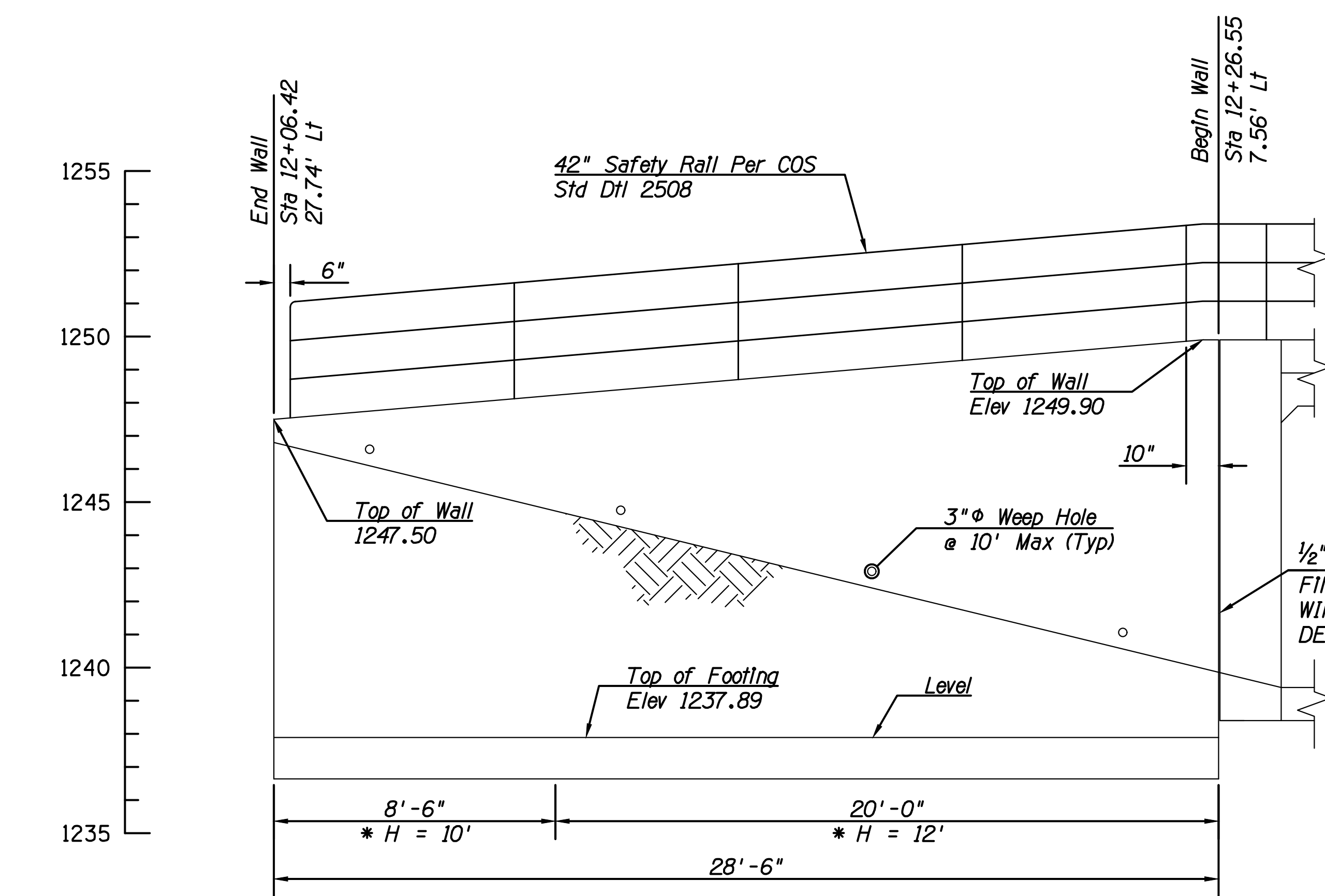
DATE	REVISION	BY
ENGINEER	PUBLIC WORKS	
		CAPITAL PROJECT MANAGEMENT
		7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251
SHEET TITLE: UNDERPASS PLAN & ELEVATION		
PROJECT TITLE: INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE: HORIZ. 1"=10'	DESIGNED: ATL	DATE: 08/23
VERT. -	DRAWN: ATL	AS-BUILT
PROJECT NO. 410-SF01A-56047		SHT. S2
24 OF 44		



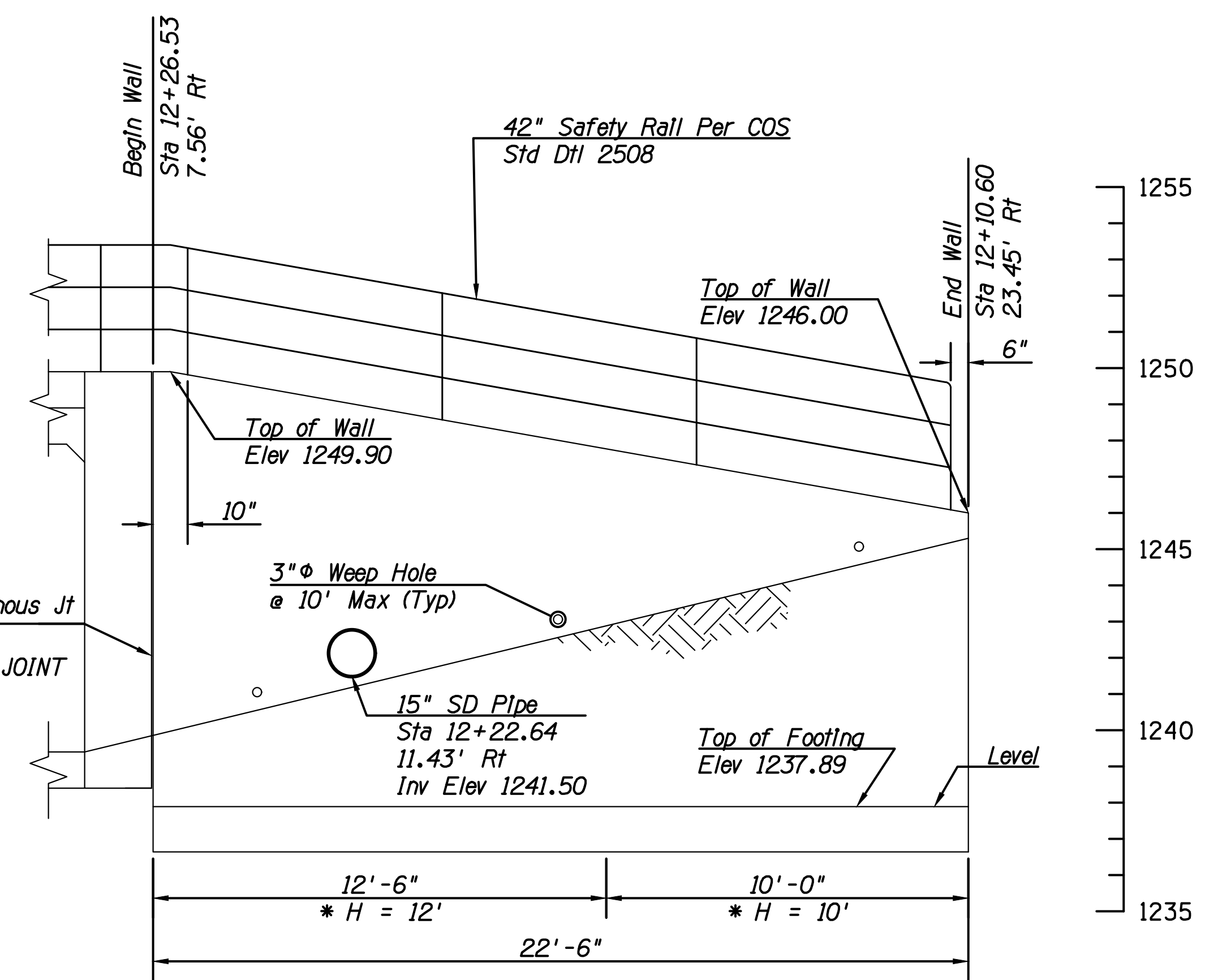
① **NORTHEAST RETAINING WALL**
Scale: 1" = 3'



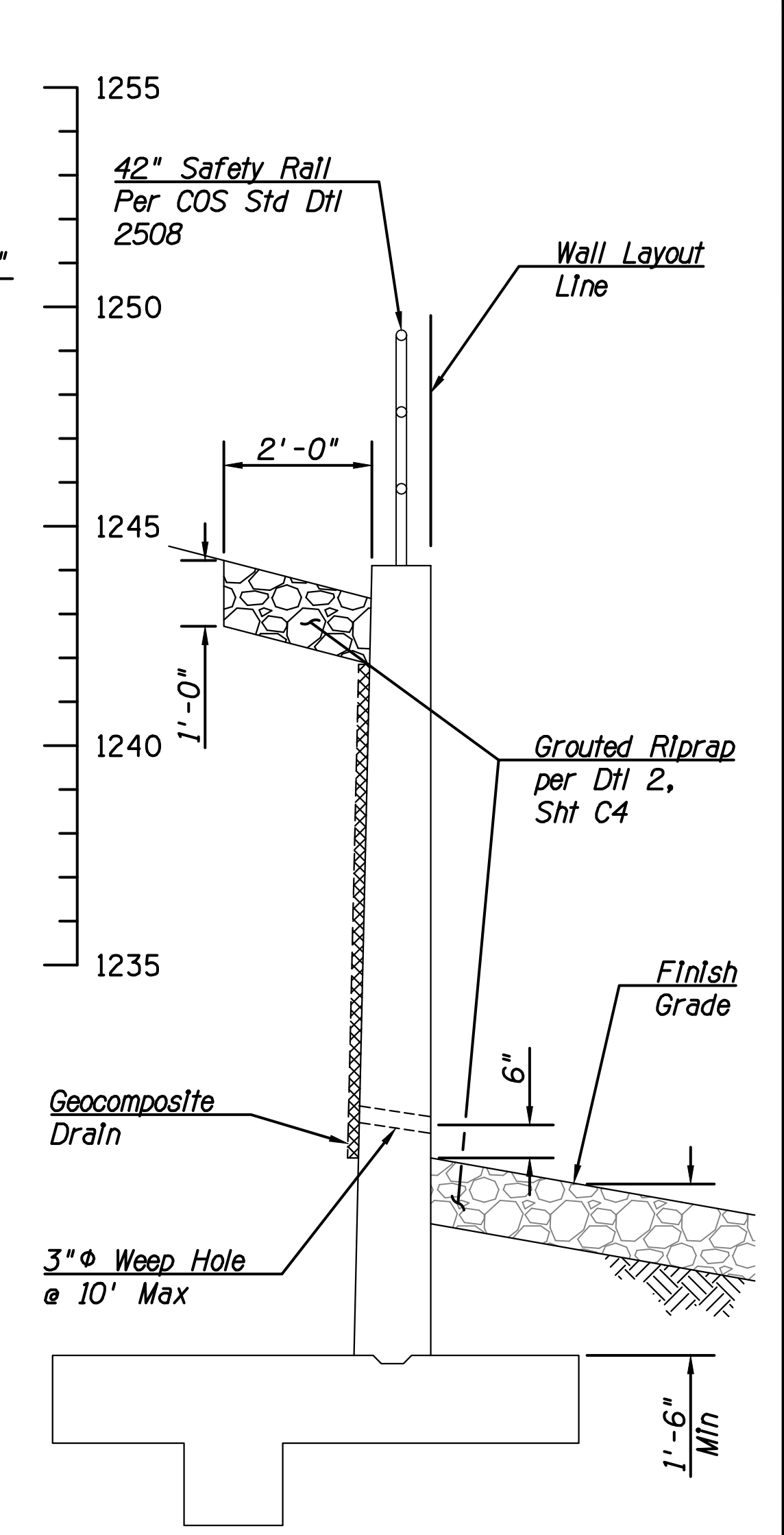
② **NORTHWEST RETAINING WALL**
Scale: 1" = 3'



③ **SOUTHWEST RETAINING WALL**
Scale: 1" = 3'



④ **SOUTHEAST RETAINING WALL**
Scale: 1" = 3'



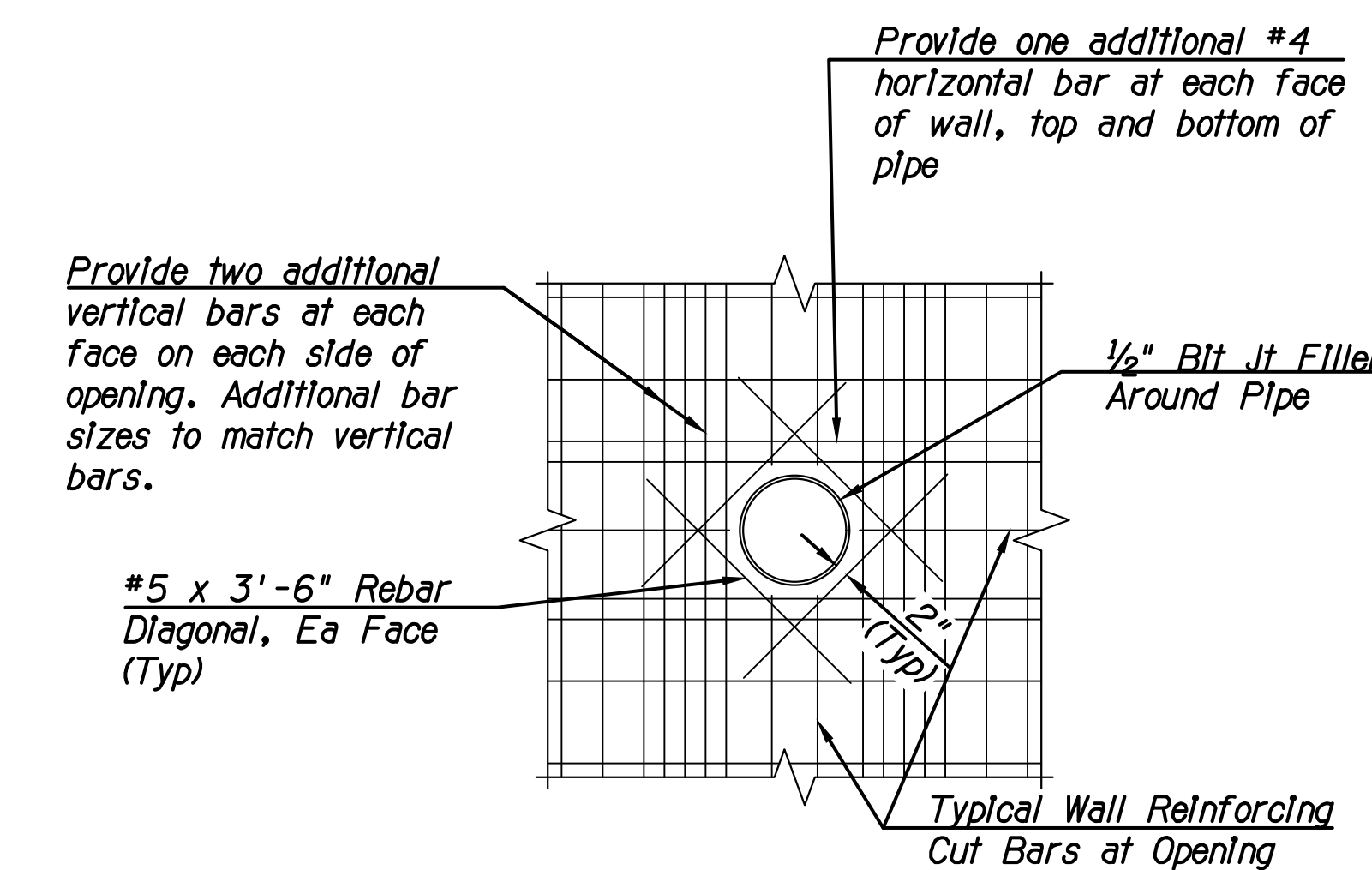
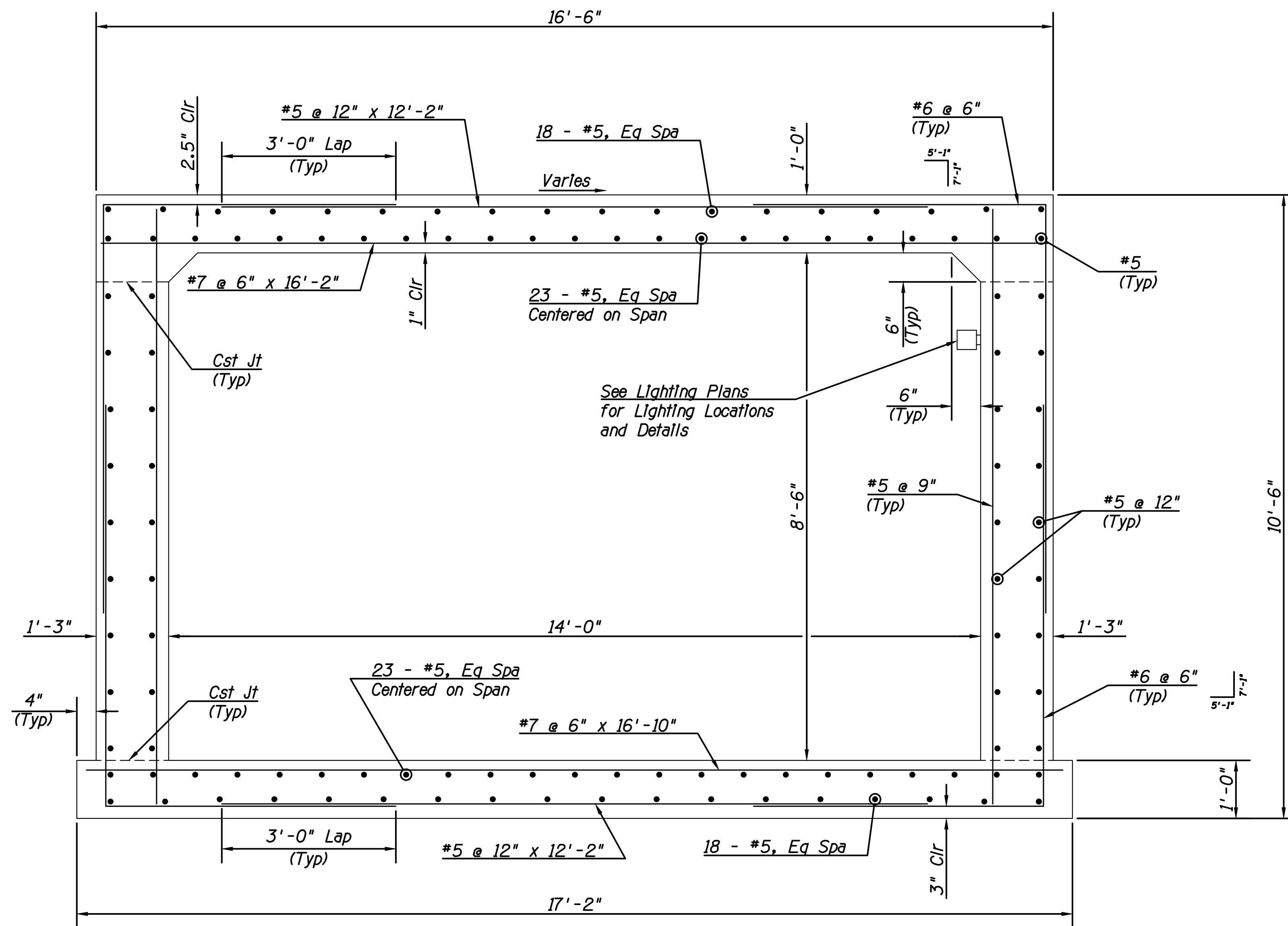
⑤ **RETAINING WALL SECTION**
Scale: 1/2" = 1'

- Notes:
- Refer to ADOT DWG SD 7.01, Case III for retaining wall details and general notes.
 - Footings may be continuous with no joints.
 - For additional wall reinforcing around pipe opening, see PIPE DETAIL, Sht S4.



DATE	REVISION	BY
ENGINEER		
		PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251
SHEET TITLE: RETAINING WALL ELEVATIONS		
PROJECT TITLE: INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE	DESIGNED	DATE
HORIZ. -	ATL	08/23
VERT. -	ATL	AS-BUILT
		BID NO.
		410-SF01A-56047
		SHT. S3
		25 OF 44

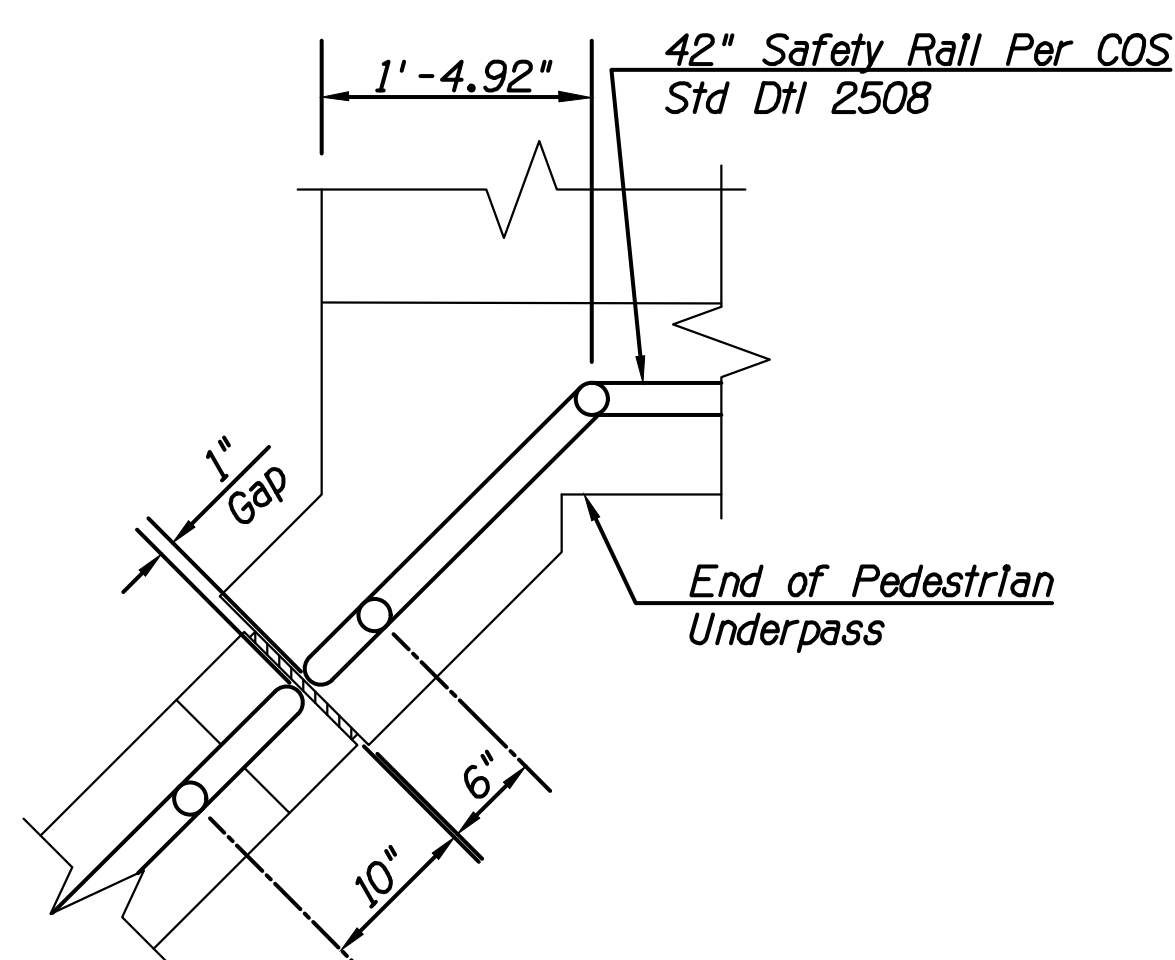
* Indicated "H" dimension in Case III Table on ADOT DWG SD 7.01



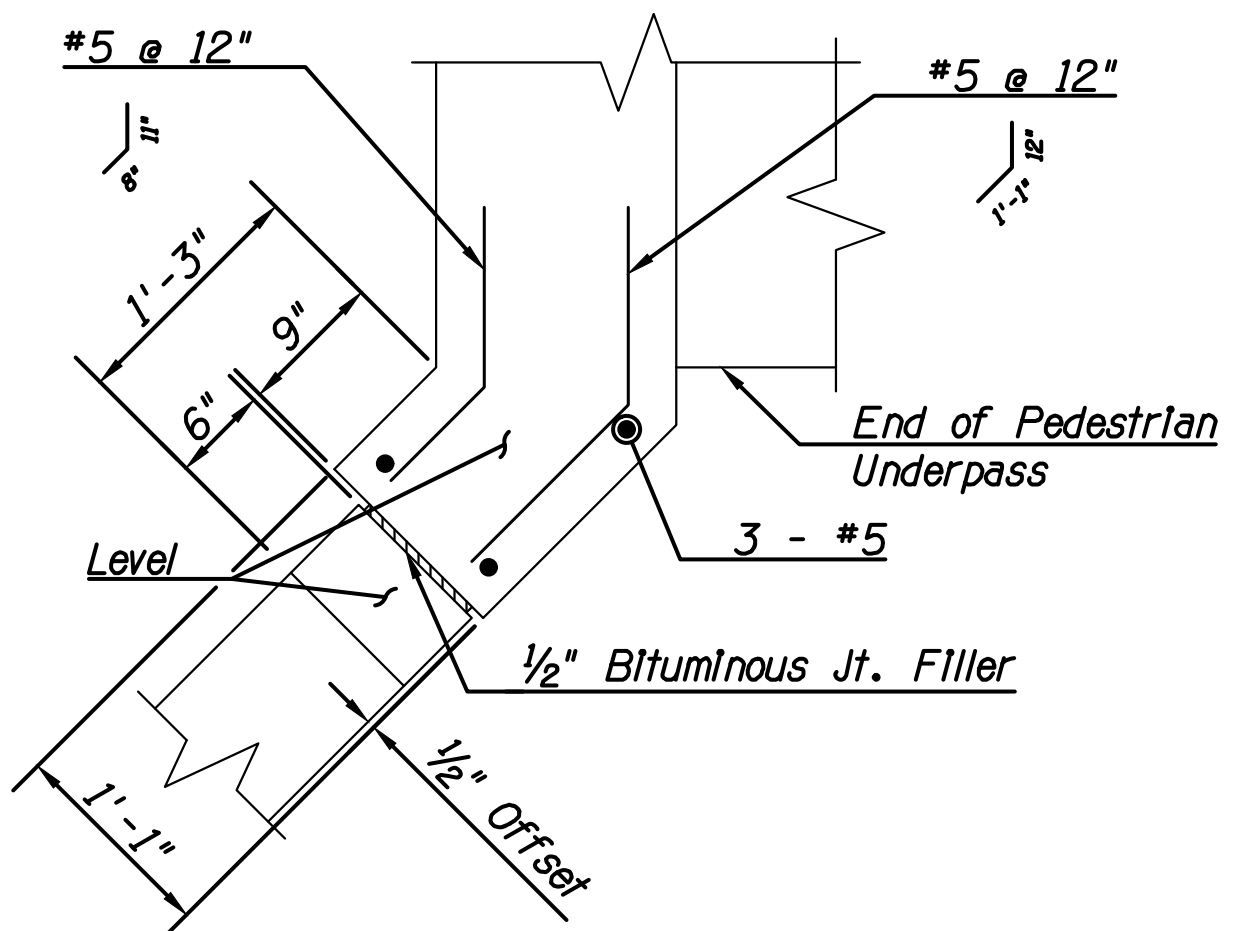
Note:
1. Cost for wall opening shall be considered incidental to the construction of the retaining wall.

5 PIPE DETAIL
Scale: 1/2" = 1'

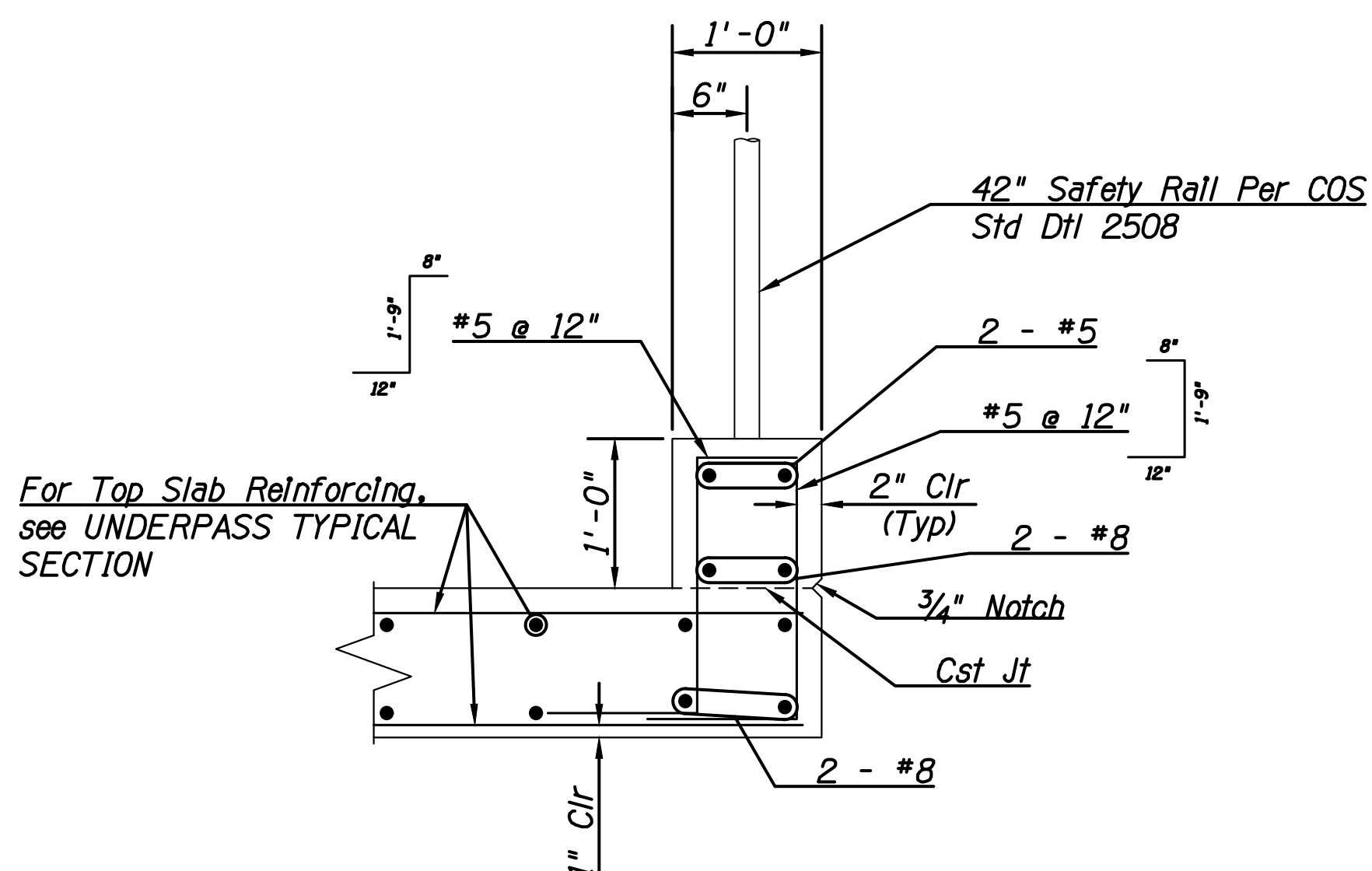
1 UNDERPASS TYPICAL SECTION
Scale: 3/4" = 1'



2 HANDRAIL AT JOINT DETAIL
Not To Scale



3 WINGWALL JOINT DETAIL
Not To Scale



4 HEADWALL DETAIL
Scale: 1" = 1'

Notes:
1. #5 horizontal bars shall be spliced 2'-6" minimum.
2. No bar shall be spliced within the required lap length of an adjacent bar.



DATE	REVISION	BY
PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE: UNDERPASS TYPICAL SECTION		
PROJECT TITLE: INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE	DESIGNED	DATE
HORIZ. -	ATL	08/23
VERT. -	AS-BUILT	
BID NO.	SHT.	
410-SF01A-56047	S4	
PROJECT NO.		26 OF 44
410-SF01A-56047		

GENERAL NOTES FOR SIGNING & PAVEMENT MARKINGS

- All pavement markings, signing, and work zone traffic control type and layout need to conform to the latest edition of the Manual on Uniform Traffic Control Devices.
- Work zone traffic control needs to conform to the City of Phoenix "Traffic Barricade Manual" and/or as directed by the City Public Works Inspector or Traffic Engineering Division.
- Signs are to be installed on telespar prepunched square steel tubing posts per COS Standard Detail No. 2131.
- Dimensions to signs need to include the sign post, or in the case of multiple posts, the plan view center of the sign.
- "No Parking" signs shall only be used when the following site conditions exist:
 - When any right hand lane (curb lane) is 16 feet or wider, or if a paved shoulder area is present.
 - Where on-street parking could be expected to occur, such as commercial areas where businesses have direct frontage on the street.

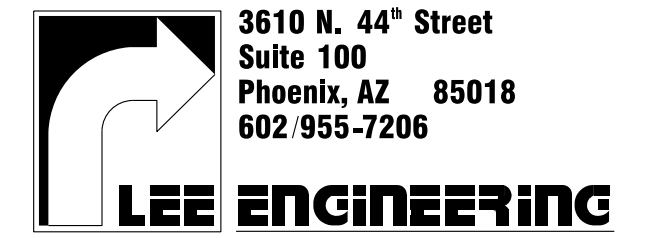
When the above criteria exists "No Parking" signs (R8-3a, 12"x18") with an arrow (single direction or bi-directional) below the "P" symbol on the sign to designate the direction of the restriction shall be installed approximately every 350-400 feet along the length of the project. No parking signs shall be installed approximately 5 feet from the back of curb at a 45 degree angle to the curb. Street light poles should be used for sign mounting when a light pole is within 50 feet of the proposed sign location.

- All longitudinal striping (edge line, lane line, and centerline) shall be 0.090" (90 mil) extruded thermoplastic, unless otherwise noted on the plans.
- All transverse striping (stop lines, crosswalk lines) shall be a minimum of 0.090" (90 mil) extruded thermoplastic, unless noted otherwise on the plans.

- All plan view striping dimensions are measured to the center of the line or center of the double line.
- All pavement symbols, arrows and legends shall be Type 1 permanent, high performance pre-formed pavement tape. (Tape must perform as 3M 380I-ES series or equivalent.)
- Raised pavement markers (RPMs) shall be used on all striped streets. RPMs shall be installed per COS Standard Detail No. 2132, and ADOT Standard Drawing M-19, with a City approved bituminous adhesive.
- Blue Type F (2-way reflective) RPMs shall be used to indicate the location of all fire hydrants and remote fire department connections, per COS Standard Detail No. 2363.
- All existing pavement markings that conflict with proposed markings shall be removed by sandblasting, hydroblasting, or grinding prior to the installation of new pavement markings. Treatment of pavement after striping has been removed, shall be a SS-1H or a product approved by the city Inspector.
- ASTM Type XI Sheeting (minimum) shall be used for all warning and regulatory and street name signs. All advance street name and metro signs shall be Type XI sheeting. School warning signs and accompanying placards must be ASTM Type XI fluorescent yellow green sheeting. All metro signs shall comply with the COS Standard Detail No. 2134-4 and 2134-3.
- The contractor is responsible for layout of all pavement markings using control points spaced no more than 50 feet apart. Pavement marking layout shall be approved by Traffic Engineering prior to the application of the final product. All pavement marking drawings are schematic only. The contractor shall follow all dimensions, details, and standards when installing pavement striping, marking and markers.

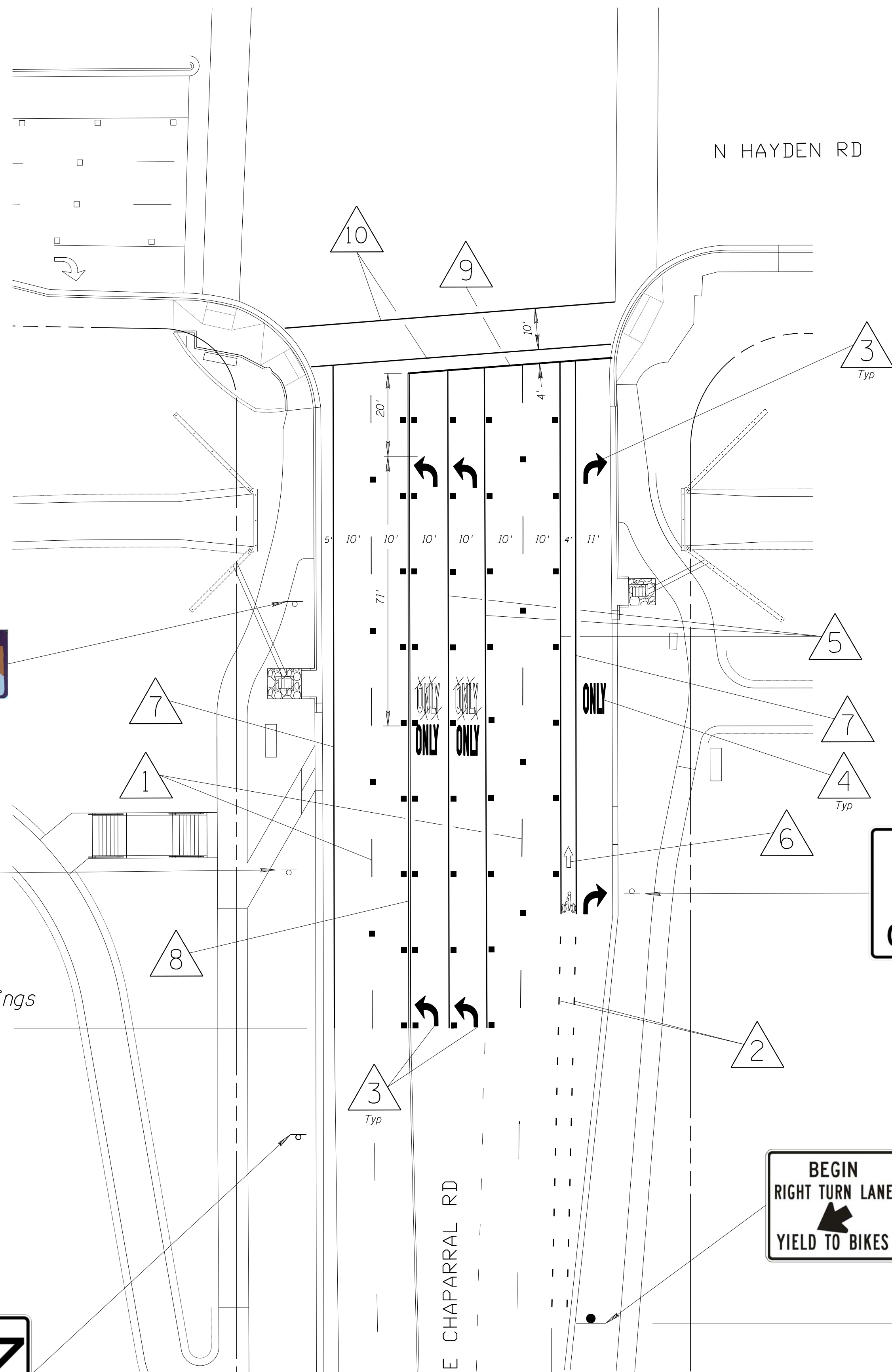
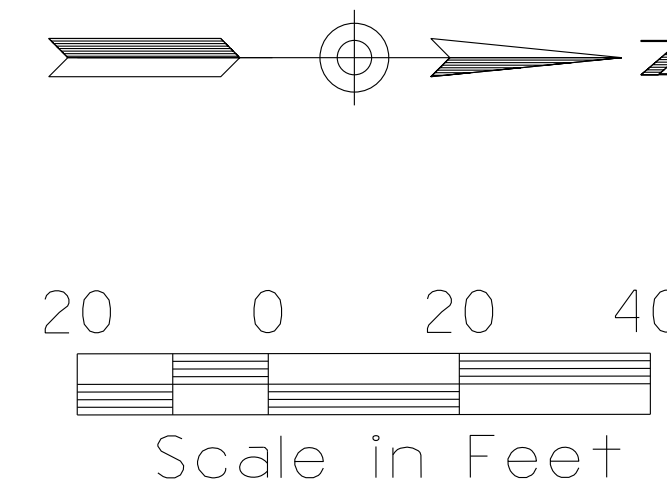
PAVEMENT MARKING LEGEND

①	— . — .	4" Broken White, 10' Line, 30' Gap w/Type G RPMs @ 40' Spacing, typ
②	- - - - -	8" Solid White, 2' Line, 6' Gap, typ
③	↩ ↪	Turn Arrow Marking per ADOT Detail M-10, typ
④	ONLY	ONLY Legend Marking per ADOT Detail M-6, typ
⑤	— . — .	8" Solid White Line, w/Type G RPMs @ 20' Spacing, typ
⑥	↩ ↪	Bike Lane Marking & Arrow, MUTCD Fig 9C-3B, typ
⑦	—————	8" Solid White
⑧	— : — : — : — :	4" Double Yellow, w/Type D RPMs @ 20' Spacing, typ
⑨	—————	18" Solid White Stop Bar
⑩	—————	12" Solid White Crosswalk Line



DATE	REVISION	BY
PUBLIC WORKS CAPITAL PROJECT MANAGEMENT		
7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE		
SIGNING AND MARKING NOTES		
PROJECT TITLE		
INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE	DESIGNED	DATE
HORIZ. -	DWB	08/23
VERT. -	DWB	AS-BUILT
BID NO.		SHT.
410-SF01A-56047		SS01
PROJECT NO.		27 OF 44

PLAN REVIEW NO.: 3705-22



NOTE:
 Existing pavement markings in conflict with new shall be removed.

Obliterate existing pavement arrows (Qty=3) and ONLY legends (Qty=3) east of new underpass excavation and replace with new, per plan. The three arrows and one legend coincide with the new symbol locations and not visible on this plan.

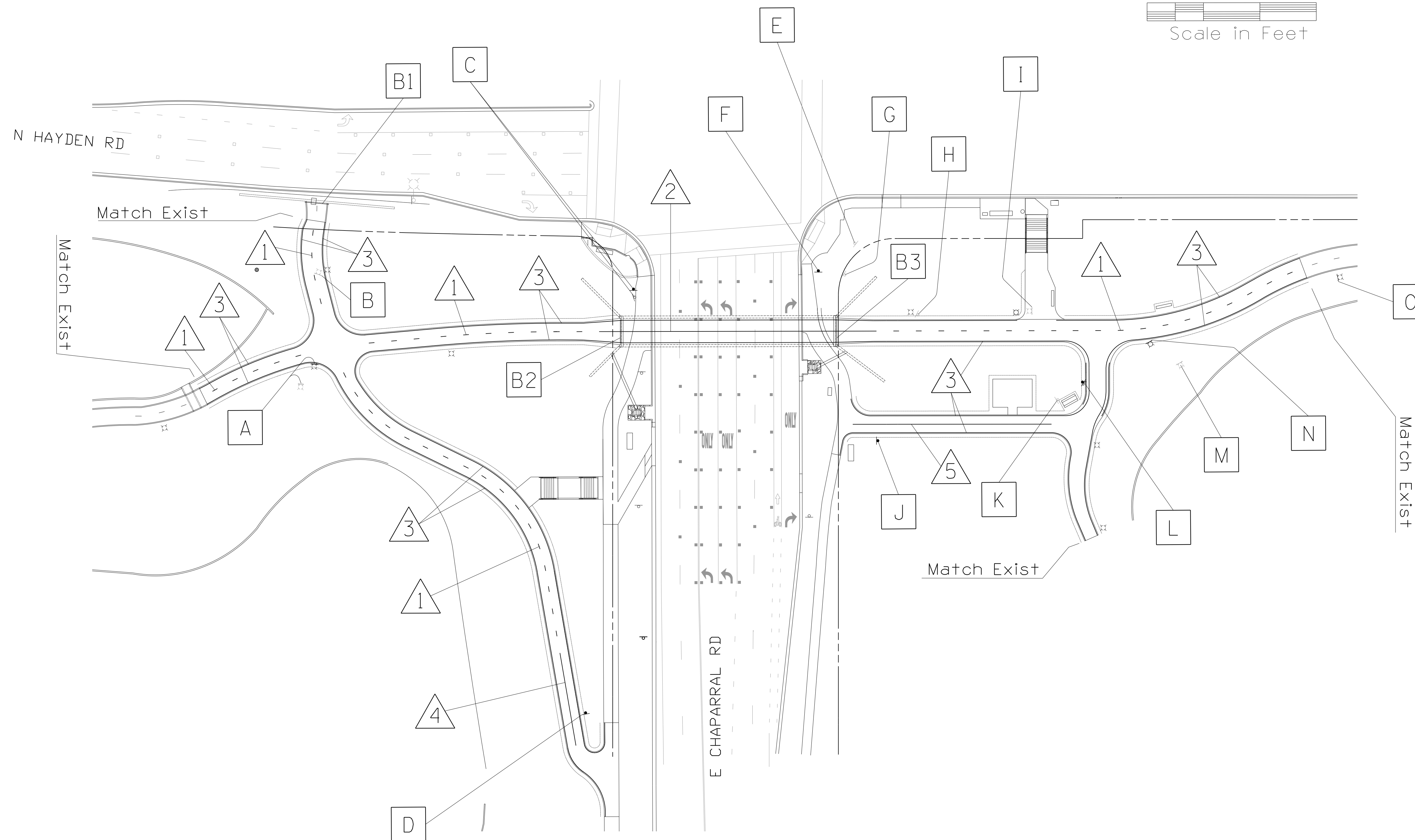
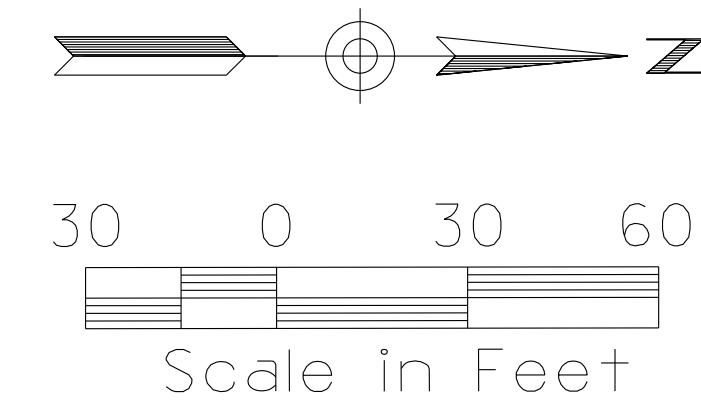
Callouts with "Typ" apply to all similar items, to reduce callout clutter on these plans.

- 1 4" Broken White, 10' Line, 30' Gap w/Type G RPMs @ 40' Spacing, typ
- 2 8" Solid White, 2' Line, 6' Gap, typ
- 3 Turn Arrow Marking per ADOT Detail M-10, typ
- 4 ONLY Legend Marking per ADOT Detail M-6, typ
- 5 8" Solid White Line, w/Type G RPMs @ 20' Spacing, typ
- 6 Bike Lane Marking, typ
- 7 8" Solid White
- 8 4" Dbl Yellow, w/Type D RPMs @ 20' Spacing, typ
- 9 18" Solid White Stop Bar
- 10 12" Solid White Crosswalk Match Existing Location



DATE	REVISION	BY
PUBLIC WORKS CAPITAL PROJECT MANAGEMENT <small>7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251</small>		
SHEET TITLE		
SIGNING AND MARKING PLAN		
PROJECT TITLE		
INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE	DESIGNED	DATE
HORIZ. 1"=20'	DWB	08/23
VERT. -	DWB	AS-BUILT
BID NO.	SHT.	
410-SFOIA-56047	SS02	28 OF 44

PLAN REVIEW NO.: 3705-22



- 1 4" Broken Yellow, 3' Line, 9' Gap per COS Detail 2282
- 2 4" Solid Yellow, Located in Center of Pathway, Approx 150 lf
- 3 4" Solid White, 6" from Edge of Pathway
- 4 4" Solid Yellow, Located in Center of Pathway, Approx 50 lf
- 5 4" Solid Yellow, Located in Center of Pathway, Approx 100 lf

NOTES:
 Sign posts for signs on this sheet shall be green in color.

Removed signs shall be salvaged to the City of Scottsdale.

See Sht SS02 for signing for Chaparral Rd.

See Sht SS04 for signs referenced by [X].

All Yellow and White striping for Multi-Use Path shall be ReflectORIZED Paint with Glass Beads per ADOT Standard Specifications Section 708.



DATE	REVISION	BY
PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE PATHWAY SIGNING AND MARKING PLAN		
PROJECT TITLE INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE	DESIGNED	DATE
HORIZ. 1"=30'	DWB	08/23
VERT. -	DRAWN	AS-BUILT
BID NO.	SHT.	
	SS03	
PROJECT NO.	29 OF 44	
410-SFOIA-56047		

PLAN REVIEW NO.: 3705-22

KEY	LEGEND	SIGN DISPOSITION	SIGN SIZE			LETTERING COLOR	BACKGROUND COLOR	SIGN SUPPORT	REMARKS
			W	H	AREA				
A	Mutt Mitt Dispenser Park Hours Sign	REL N	18	24	3.00	White	Blue	RLP	Mount new Park Hours sign above existing Mutt Mitt Dispenser on Relocated Lighting Pole
B	"Hayden Rd" "UNDERPASS"	RMV RMV							Existing Signs on Exist Lighting Pole to be Removed
B1	"INDIAN BEND WASH PATH" "HAYDEN ROAD UNDERPASS"	N	158	19 1/8	20.98	BLACK	WHITE	UP	New Sign to be Mounted on Face of Underpass
B2	"INDIAN BEND WASH PATH" "CHAPARRAL ROAD UNDERPASS"	N	158	19 1/8	20.98	BLACK	WHITE	UP	New Sign to be Mounted on Face of Underpass
B3	"INDIAN BEND WASH PATH" "CHAPARRAL ROAD UNDERPASS"	N	158	19 1/8	20.98	BLACK	WHITE	UP	New Sign to be Mounted on Face of Underpass
C	"WATCH FOR TURNING VEHICLES"	REL						RMV P	Relocate Exist Sign Panel to new Post & Base Remove Exist Post & Base
D	Future Type DI Sign								Future Sign by Others
E	"WATCH FOR TURNING VEHICLES"	RMV						RMV	Remove Existing Sign, Post & Base
F	"WATCH FOR TURNING VEHICLES"	N	18	18	2.25	Black	Yellow	P	New Sign on New Post & Base
G	"CAUTION: MULTI-USE PATH KEEP RIGHT"	RMV						RMV	Remove Existing Sign, Post & Base
H	"YIELD TO PEDS" Park Hours Sign	RMV RMV						RMV	Remove Existing Signs, Post & Base
I	"INDIAN BEND WASH PATH" Yield Rules "CAMELBACK PARK" "INDIAN SCHOOL PARK" "DOWNTOWN"	RMV RMV RMV RMV							Existing Signs on Exist Lighting Pole to be Removed
J	Future Type DI Sign								Future Sign by Others
K	"PLEASE KEEP YOUR PARK ATTRACTIVE..." Mutt Mitt Dispenser	RMV REL						RMV	Remove Existing Sign, Post & Base Relocate Mutt Mitt Dispenser to L
L	"PLEASE KEEP YOUR PARK ATTRACTIVE..." Mutt Mitt Dispenser	N	12	18	1.50	Red	White	P	New Sign on New Post & Base Mutt Mitt Dispenser Relocated from K
M	"INDIAN BEND WASH PATH" Yield Rules	RMV							Remove Exist Sign from Lighting Pole
N	Park Hours Sign	N	18	24	3.00	White	Blue	RLP	New Sign on Relocated Lighting Pole
O	"INDIAN BEND WASH PATH" Yield Rules "CHAPARRAL DOG PARK" "CHAPARRAL POOL"	RMV RMV RMV							Existing Signs on Exist Lighting Pole to be Removed

SIGN DISPOSITION:

E EXISTING, TO REMAIN
REL TO BE RELOCATED
RMV TO BE REMOVED
N NEW SIGN PANEL

SIGN SUPPORT:

P NEW POST & BASE
RMV EXISTING POST,
TO BE REMOVED
RLP RELOCATED LIGHT POLE
UP FACE OF UNDERPASS



DATE	REVISION	BY
PUBLIC WORKS CAPITAL PROJECT MANAGEMENT		7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251
SHEET TITLE		
PATHWAY SIGNING AND MARKING PLAN		
PROJECT TITLE		
INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE	DESIGNED	DATE
HORIZ. -	DWB	08/23
VERT. -	DWB	AS-BUILT
	BID NO.	SHT.
	410-SFOIA-56047	SS04
	PROJECT NO.	30 OF 44



A H N

18" X 24"
 Park Hours Sign



B

24" x 12"
 Underpass Signs
 to be Removed



C E F

18" X 18"
 Turning Traffic Sign



D I J M O

12" X 18"
 INDIAN BEND WASH PATH
 Yield Rules Sign
 to be Removed



G

24" X 24"
 Multi-Use Path Sign
 to be Removed



H

12" X 18"
 YIELD TO PEDS Sign
 to be Removed



I

(3) 24" X 8"
 Destination Signs
 to be Removed



K L

12" X 18"
 Keep Park Attractive Sign




O

(2) 24" X 8"
 Destination Signs
 to be Removed



DATE	REVISION	BY
ENGINEER PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE		
PATHWAY SIGNING AND MARKING PLAN		
PROJECT TITLE		
INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE	DESIGNED	DATE
HORIZ. -	DWB	08/23
VERT. -	DWB	AS-BUILT
	BID NO.	SHT.
	410-SFOIA-56047	31 OF 44

 **INDIAN BEND WASH PATH**
OSBORN ROAD BRIDGE

B1 B2 B3

13'-1" X 19 1/8"
 Type A2
 Underpass/Trail Identity Sign



D I J M O

Future Type A4
 Wayfinder Signs by Others
 NOT PART OF THIS PROJECT



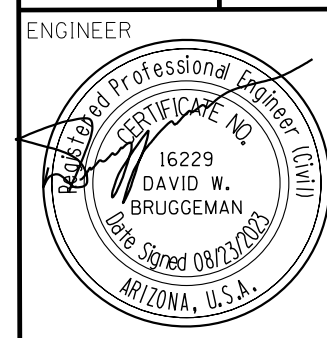

D G H I J M O

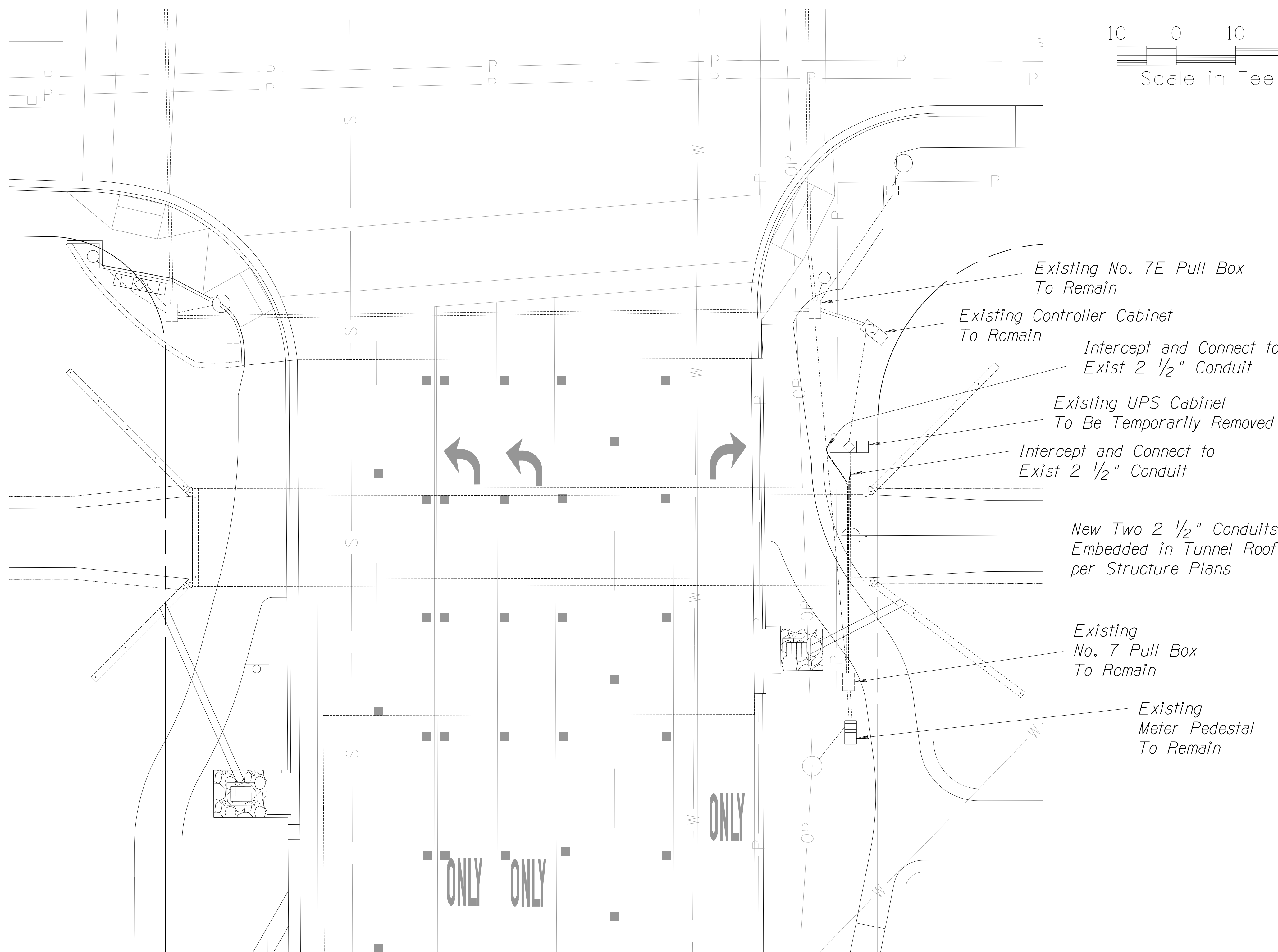
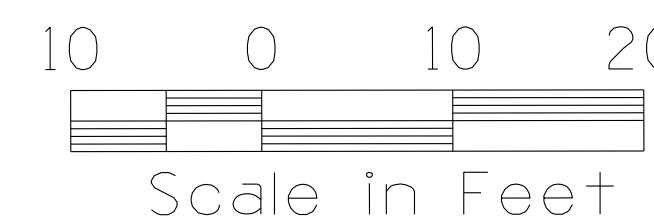
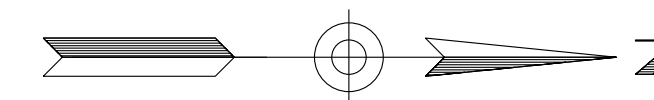
Future Type D1
 Wayfinder Signs by Others
 NOT PART OF THIS PROJECT

NOTES:
 Signs Shown on this Sheet Shall Conform to the City of Scottsdale Pathways Trail Signage Graphic Standards, and Shall be Customized for the Specific Applications of this Project for Path, (Indian Bend Wash Path) and Road (Hayden Road, Chaparral Road). Illustrations are Intended to Illustrate Sign Concept.

Signs shall be Submitted to the City of Scottsdale (Susan Conklu, (480) 312-2308) for Review and Approval Prior to Fabrication.



DATE	REVISION	BY
		
ENGINEER PUBLIC WORKS CAPITAL PROJECT MANAGEMENT		7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251
SHEET TITLE		
PATHWAY SIGNING AND MARKING PLAN		
PROJECT TITLE		
INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE	DESIGNED	DATE
HORIZ. -	DWB	08/23
VERT. -	DWB	AS-BUILT
BID NO.	PROJECT NO.	SHT.
	410-SFOIA-56047	SS06
		32 OF 44

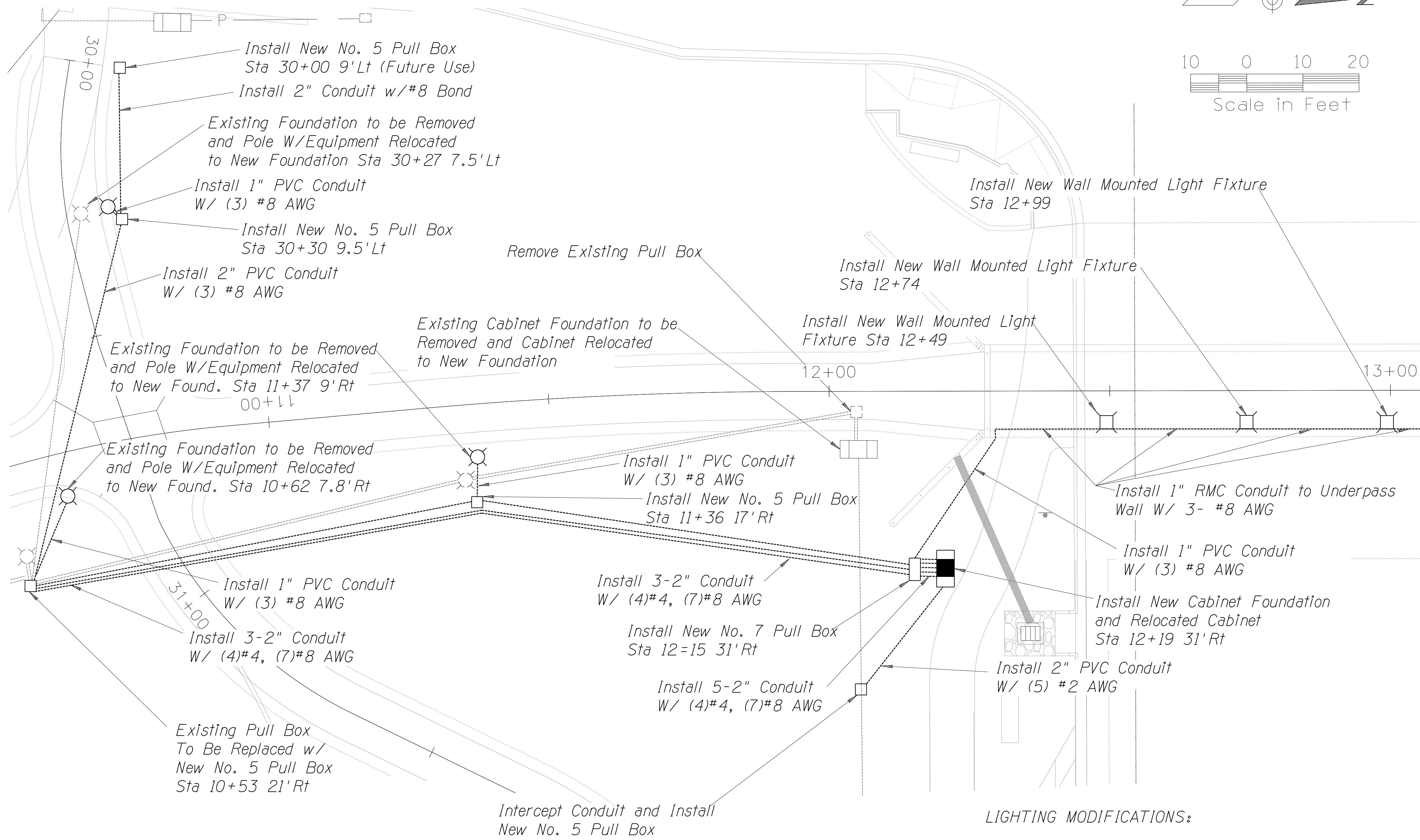
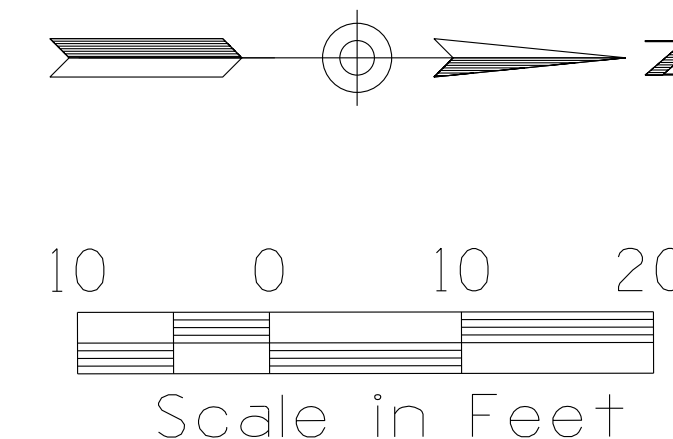


SIGNAL POWER MODIFICATIONS:

1. Develop and provide the City Inspector, SRP and City Signal Maintenance the proposed steps and schedule for a temporary shut-down and installation of temporary power routing during underpass construction for review and approval at project start. Traffic signal, street lighting and radio power shall remain operational during construction, except during times of preapproved shut-down for relocation. Temporary power routing shall accommodate the temporary removal and subsequent reinstallation of the existing UPS cabinet and No. 7 pull box east of underpass, if affected by excavation limits, and unable to protect in place. Cabinet removal and reinstallation will require new UPS cabinet foundation. If pull box cannot be protected in place and requires temporary removal, a new No. 7 pull box shall be furnished and installed for the permanent configuration.
2. Contractor to be aware that one conduit contains existing conductors to power the street lights, plus a cable providing power to a radio that will need to be reinstalled in the permanent new conduits, reterminating the radio cable in the existing meter pedestal, with no splices. Other conduit contains power conductors running between the UPS cabinet and existing meter cabinet that will need to be reinstalled and reconnected in the existing meter pedestal and UPS.
3. Install two 2 1/2" conduits from existing No. 7 pull box adjacent to existing meter pedestal, embedded in ceiling of new concrete underpass, as detailed in underpass structure plans. Route one conduit to, intercept and connect to existing conduit coming out of east side of the existing UPS cabinet. Route other conduit to, intercept and connect to existing conduit from No. 7E signal pull box on NE corner.
4. Reinstall previously existing street lighting conductors, radio cable and power conductors and reconnect. Radio cable shall remain unspliced along route.



DATE	REVISION	BY
<p>PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251</p>		
SHEET TITLE TRAFFIC SIGNAL PLAN		
PROJECT TITLE INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE HORIZ. 1"=10'	DESIGNED DWB	DATE 08/23
VERT. -	DRAWN DWB	AS-BUILT
BID NO. PROJECT NO. 410-SFOIA-56047		SHT. TS01 33 OF 44



MATCHLINE 13+06

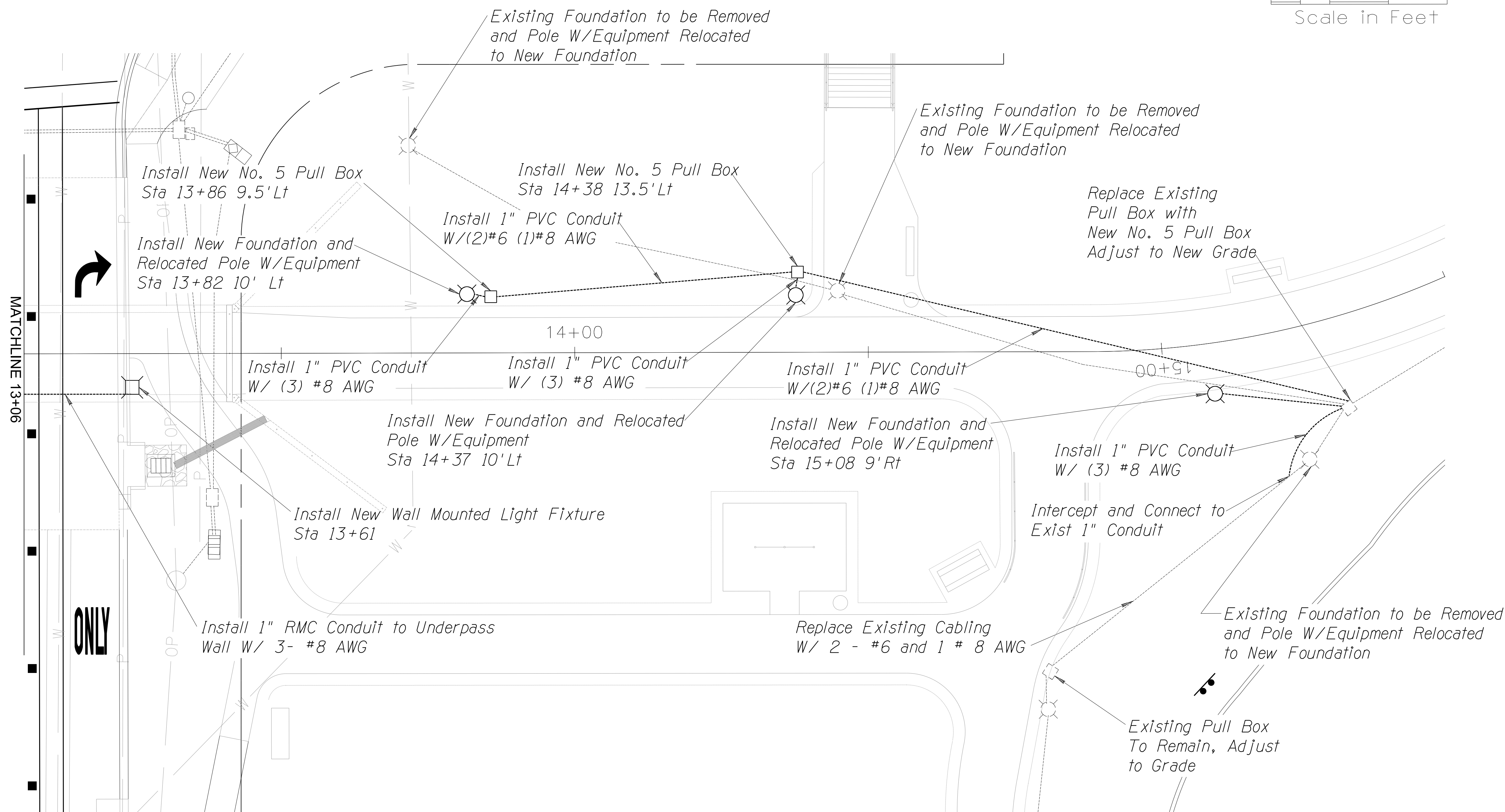
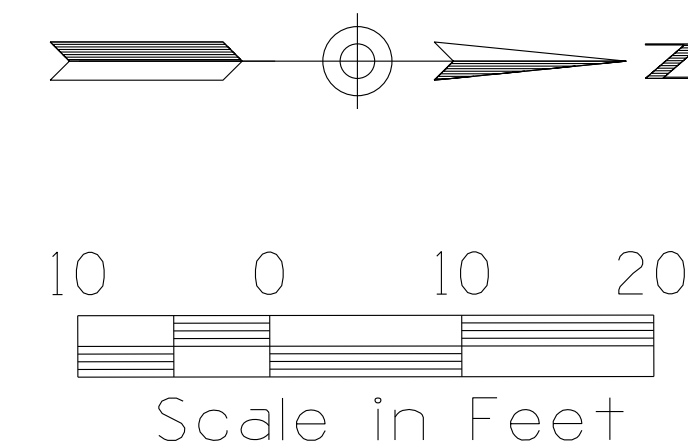
LIGHTING MODIFICATIONS:

1. Develop and provide the City Inspector and City Maintenance the schedule for shut-down and relocation of lighting load center cabinet for review and approval at project start.
2. Install five 2" conduits from new No. 7 pull box to the new Cabinet location. Install one 2" conduit from Cabinet to new pull box intercepting existing conduit servicing power to load center cabinet, this serve is fed from pump house panel 'A' east of this location.



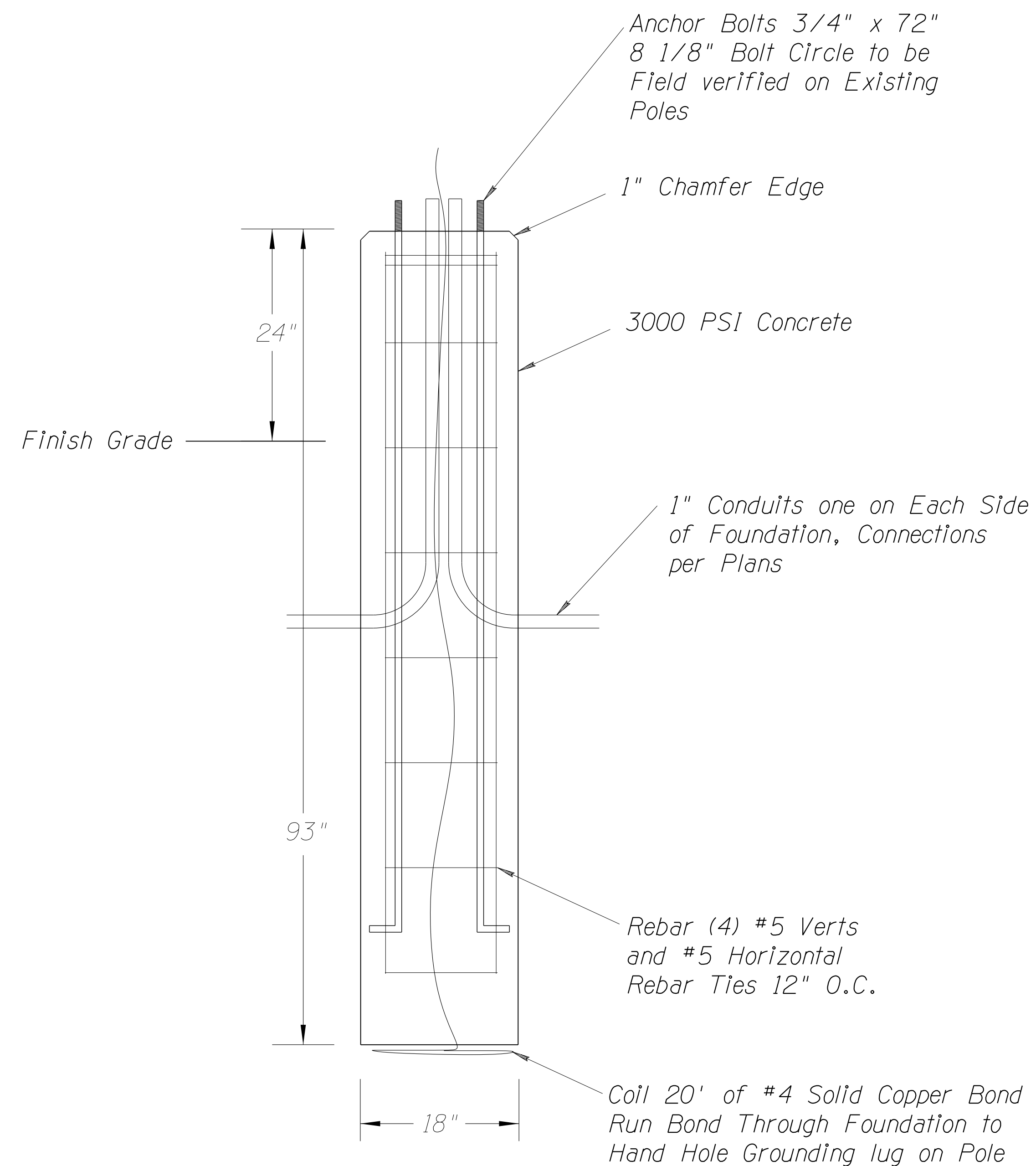
DATE	REVISION	BY
PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE		
PROJECT TITLE		
SCALE	DESIGNED	DATE
HORIZ. 1"=10'	DWB	08/23
VERT. -	JJP	AS-BUILT
PROJECT NO.		SHT.
410-SF01A-56047		SL01
34 OF 44		

PLAN REVIEW NO.: 3705-22

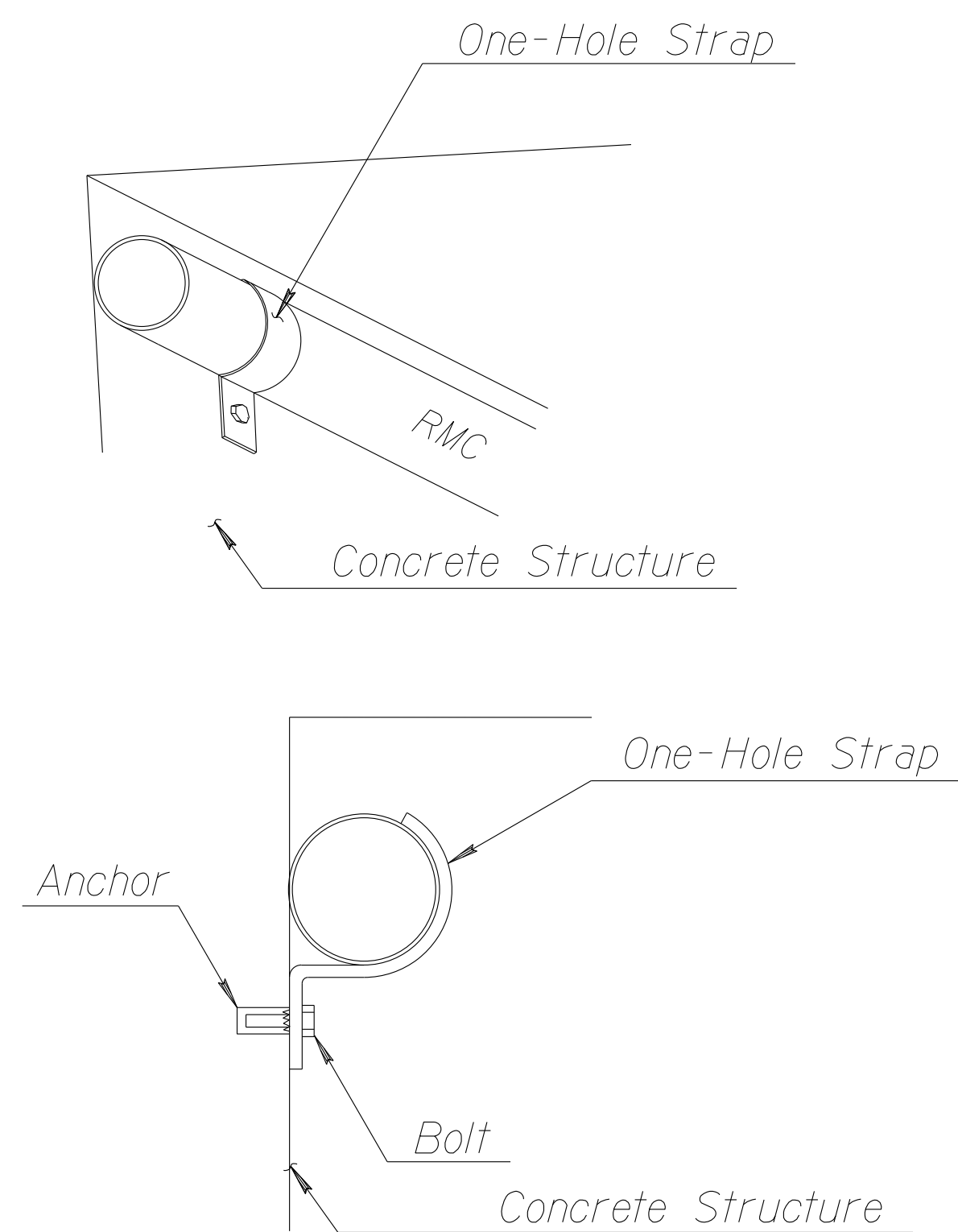


DATE	REVISION	BY
ENGINEER		
		PUBLIC WORKS CAPITAL PROJECT MANAGEMENT
7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE		
LIGHTING PLANS		
PROJECT TITLE		
INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE	DESIGNED	DATE
HORIZ. 1"=10'	DWB	08/23
VERT. -	JJP	AS-BUILT
PROJECT NO.		BID NO.
410-SF01A-56047		35 OF 44

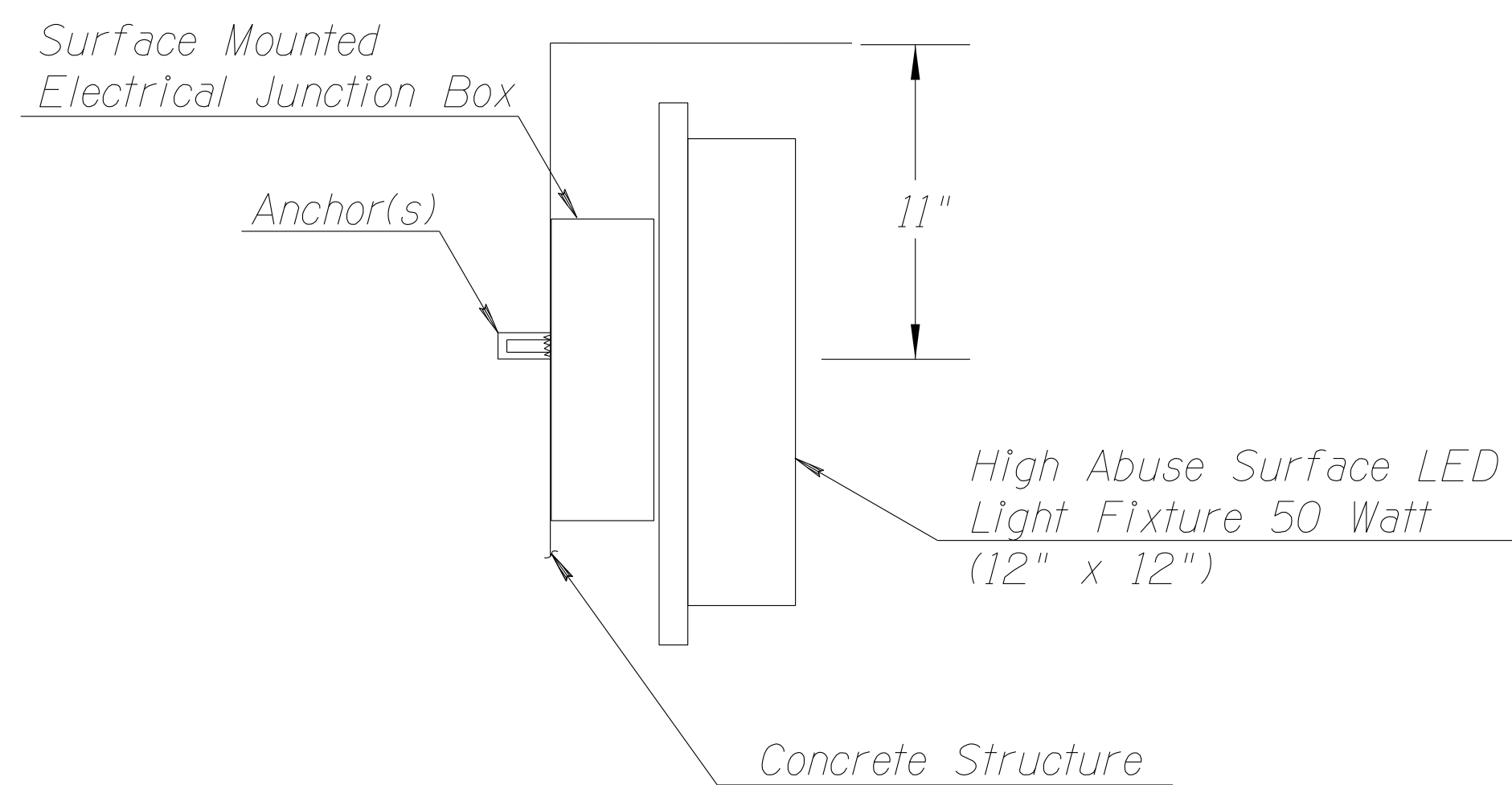
PLAN REVIEW NO.: 3705-22



POLE FOUNDATION



**RMC MOUNTING WITH ONE-HOLE STRAP
 ALONG CONCRETE BOX SEGMENT**

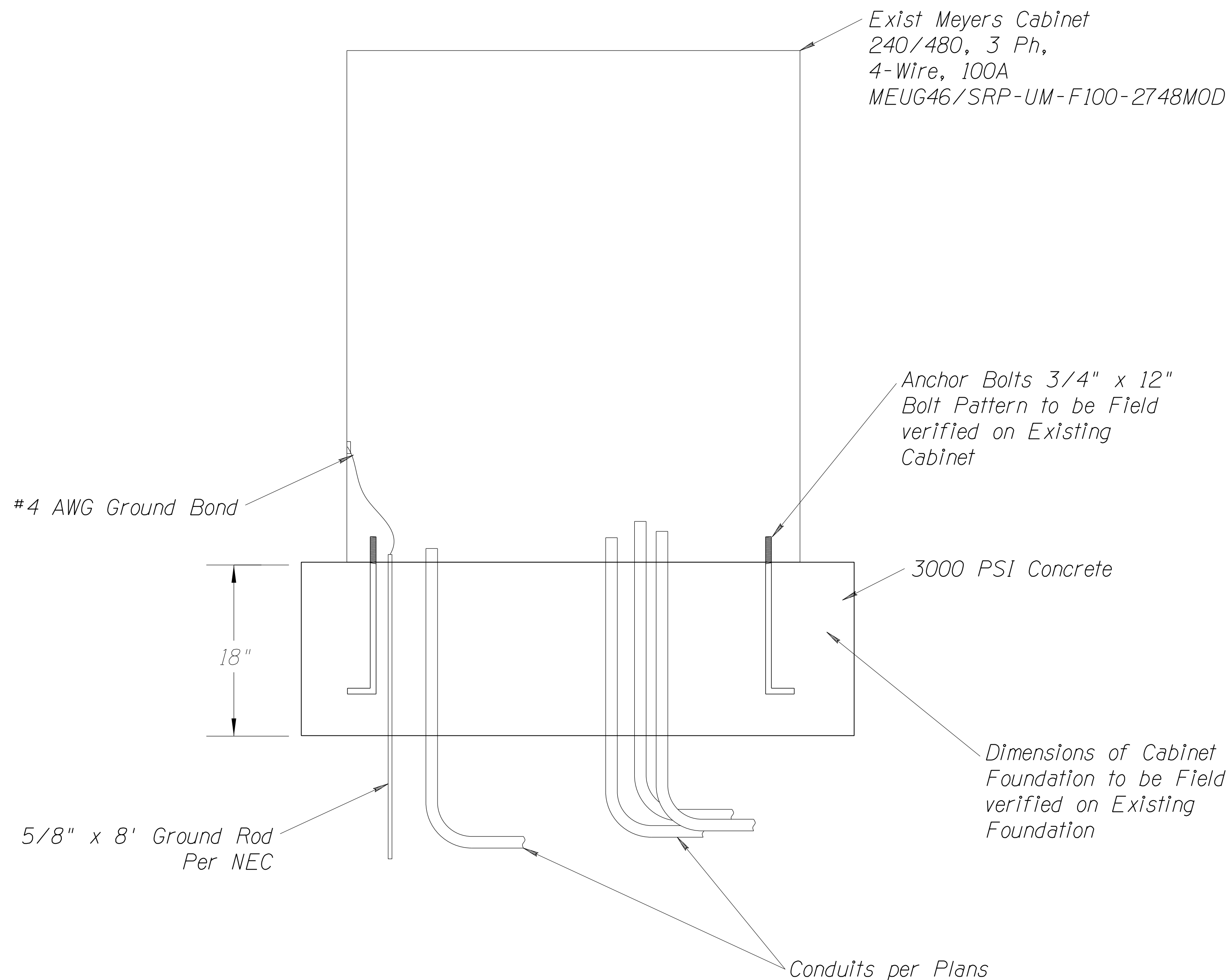


**LIGHTING FIXTURE MOUNTING
 ALONG CONCRETE BOX SEGMENT**



DATE	REVISION	BY
PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE		
LIGHTING DETAILS		
PROJECT TITLE		
INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE	DESIGNED	DATE
HORIZ. -	DWB	08/23
VERT. -	JJP	AS-BUILT
PROJECT NO.		SHT.
410-SF01A-56047		36 OF 44

PLAN REVIEW NO.: 3705-22



LOAD CENTER FOUNDATION

PATH LTG.	□	□	PATH LTG.
PATH LTG.	□	□	PATH LTG.
SPARE	□		BLANK *
IRR. CONT.	□		BLANK
IRR. CONT.	□		BLANK
SPARE	□	□	LTG. CONT.

LOAD CENTER PANEL

* UTILIZE BLANK FOR NEW CIRCUIT FOR UNDERPASS LIGHTING


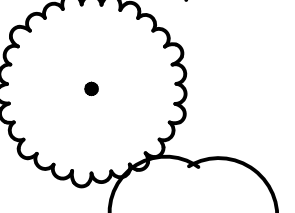

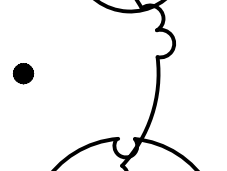
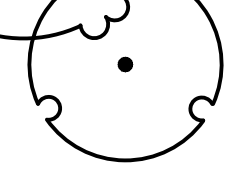








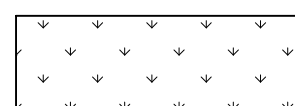
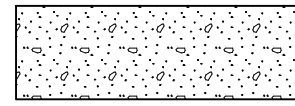
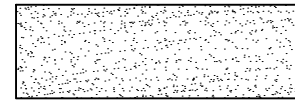
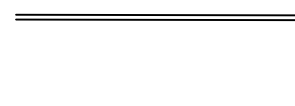


DATE	REVISION	BY
PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE		
LIGHTING DETAILS		
PROJECT TITLE		
INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE	DESIGNED	DATE
HORIZ. -	DWB	08/23
VERT. -	JJP	AS-BUILT
PROJECT NO.		SHT.
410-SF01A-56047		37 OF 44

PLAN REVIEW NO.: 3705-22

INDIAN BEND WASH PATH AT CHAPARRAL ROAD

LANDSCAPE SCHEDULE

TREES	QTY	BOTANICAL / COMMON NAME	CONT
	8	CAESALPINIA CACALACO 'SMOOTHIE' TM SMOOTHIE CASCALOTE	24" BOX 1.0 CALIPER MULTI-TRUNK
	2	CAESALPINIA MEXICANA MEXICAN BIRD OF PARADISE	15 GAL 0.5 CALIPER MULTI-TRUNK
	9	CORDIA BOISSIERI TEXAS OLIVE	15 GAL 0.5 CALIPER MULTI-TRUNK
	15	PISTACIA HYBRID 'RED PUSH' RED PUSH PISTACHE	24" BOX 1.0" CALIPER MULTI-TRUNK
	2	SOPHORA SECUNDFLORA TEXAS MOUNTAIN LAUREL	24" BOX 1.0" CALIPER MULTI-TRUNK
SHRUBS	QTY	BOTANICAL / COMMON NAME	CONT
	46	CALLIANDRA HYBRID 'MARICOPA RED' FAIRY DUSTER	5 GAL
	34	LANTANA CAMARA 'DALLAS RED' DALLAS RED LANTANA	5 GAL
	83	LANTANA CAMARA 'GOLD MOUND' GOLD MOUND LANTANA	5 GAL
	32	LEUCOPHYLLUM LANGMANIAE 'RIO BRAVO' RIO BRAVO LANGMAN'S SAGE	5 GAL
	16	LEUCOPHYLLUM ZYGOPHYLLUM BLUE RANGER	5 GAL
ACCENTS	QTY	BOTANICAL / COMMON NAME	CONT
	10	DASYLIRION QUADRANGULATUM SQUARE LEAF SOTOL	5 GAL
	34	HESPERALOE FUNIFERA GIANT HESPERALOE	5 GAL
	13	HESPERALOE PARVIFLORA 'BRAKELIGHTS' BRAKELIGHTS RED HESPERALOE	3 GAL
TURF SOD	QTY	DESCRIPTION	
	3,300 SF	TURF SOD HYBRID BERMUDA GRASS	
INERT MATERIAL	QTY	DESCRIPTION	
	2,415 SY	ANGULAR ROCK COLOR TO MATCH EXISTING D.G. 4"-6" SCREENED, 6" DEEP MIN.	
	440 SY	DECOMPOSED GRANITE COLOR TO MATCH EXISTING D.G. 1/4" MINUS, 2" DEEP MIN.	
	124 LF	LANDSCAPE CONCRETE HEADER COLOR TO MATCH ADJACENT SIDEWALK 6" WIDE, 8" DEEP MIN.	

LANDSCAPE SCHEDULE NOTES

- ANY RIPRAP SHOWN ON CIVIL SHEETS IS NOT PART OF THE QUANTITIES SHOWN IN THE LANDSCAPE SCHEDULE.
- DO NOT MAKE SUBSTITUTIONS. IF SPECIFIED LANDSCAPE MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON-AVAILABILITY FROM AT LEAST FIVE SOURCES TO THE CITY'S REPRESENTATIVE WITH A PROPOSAL FOR USE OF EQUIVALENT MATERIAL FOR FINAL APPROVAL.

CITY LANDSCAPE NOTES

- AREAS OF DECOMPOSED GRANITE WITHOUT PLANT MATERIALS/GROUNDCOVERS SHALL NOT EXCEED DIMENSIONS OF MORE THAN 7 FEET IN ANY ONE DIRECTION, MEASURED BETWEEN PLANT CANOPIES AND/OR COVERAGE.
- A MINIMUM OF 50 PERCENT (UNLESS OTHERWISE STIPULATED BY THE DEVELOPMENT REVIEW BOARD, AND/OR THE ZONING ORDINANCE REQUIREMENTS) OF THE PROVIDED TREES SHALL BE MATURE TREES, PURSUANT TO THE CITY OF SCOTTSDALE'S ZONING ORDINANCE ARTICLE X, SECTION 10.301, AS DEFINED IN THE CITY OF SCOTTSDALE'S ZONING ORDINANCE ARTICLE III, SECTION 3.100.
- A SINGLE TRUNK TREE'S CALIPER SIZE, THAT IS TO BE EQUAL TO OR LESS THAN 4-INCHES, SHALL BE DETERMINED BY UTILIZING THE SMALLEST DIAMETER OF THE TRUNK 6-INCHES ABOVE FINISHED GRADE ADJACENT TO THE TRUNK. A TREE'S CALIPER SIZE, FOR SINGLE TRUNK TREES THAT ARE TO HAVE A DIAMETER GREATER THAN 4-INCHES, SHALL BE DETERMINED BY UTILIZING THE SMALLEST DIAMETER OF THE TRUNK 12-INCHES ABOVE FINISHED GRADE ADJACENT TO THE TRUNK. A MULTIPLE TRUNK TREE'S CALIPER SIZE IS MEASURED AT 6" ABOVE THE LOCATION THAT THE TRUNK SPLIT ORIGINATES, OR 6" ABOVE FINISHED GRADE IF ALL TRUNKS ORIGINATE FROM THE SOIL.
- AREA WITHIN THE SIGHT VISIBILITY TRIANGLES IS TO BE CLEAR OF LANDSCAPING, SIGNS, OR OTHER VISIBILITY OBSTRUCTIONS WITH A HEIGHT GREATER THAN 1.5 FEET. TREES WITHIN THE SIGHT TRIANGLE SHALL HAVE A SINGLE TRUNK AND A CANOPY THAT BEGINS AT 8 FEET IN HEIGHT UPON INSTALLATION. ALL HEIGHTS ARE MEASURED FROM NEAREST STREET LINE ELEVATION.
- RETENTION/DETENTION BASINS SHALL BE CONSTRUCTED SOLELY FROM THE APPROVED CIVIL PLANS. ANY ALTERATION OF THE APPROVED DESIGN (ADDITIONAL FILL, BOULDERS, ETC.) SHALL REQUIRE ADDITIONAL FINAL PLANS STAFF REVIEW AND APPROVAL.
- ALL RIGHTS-OF-WAY ADJACENT TO THIS PROPERTY SHALL BE LANDSCAPED AND MAINTAINED BY THE PROPERTY OWNER.
- PRIOR TO THE ESTABLISHMENT OF WATER SERVICE, NON-RESIDENTIAL PROJECTS WITH AN ESTIMATED ANNUAL WATER DEMAND OF TEN (10) ACRE-FEET OR MORE SHALL SUBMIT A CONSERVATION PLAN IN CONFORMANCE WITH SECTIONS 49-245 THROUGH 49-248 OF THE CITY CODE TO THE WATER CONSERVATION OFFICE.
- TURF SHALL BE LIMITED TO THE MAXIMUM AREA SPECIFIED IN SECTIONS 49-245 THROUGH 49-248 OF THE CITY CODE AND SHALL BE SHOWN ON LANDSCAPE PLANS SUBMITTED AT THE TIME OF FINAL PLANS.
- NO LIGHTING IS APPROVED WITH THE SUBMITTAL.
- THE LANDSCAPE SPECIFICATION SECTION(S) OF THESE PLANS HAVE NOT BEEN REVIEWED AND SHALL NOT BE PART OF THE CITY OF SCOTTSDALE'S APPROVAL.
- ALL SIGNS REQUIRE SEPARATE PERMITS AND APPROVALS.
- NEW LANDSCAPING, INCLUDING SALVAGED PLANT MATERIAL, AND LANDSCAPING INDICATED TO REMAIN, WHICH IS DESTROYED, DAMAGED, OR EXPIRES DURING CONSTRUCTION SHALL BE REPLACED WITH LIKE SIZE, KIND, AND QUANTITY PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY / LETTER OF ACCEPTANCE TO THE SATISFACTION OF THE INSPECTION SERVICES STAFF.

ALL LANDSCAPE AND IRRIGATION SHALL COMPLY WITH CITY OF SCOTTSDALE (COS) DESIGN STANDARDS AND POLICIES MANUAL (DSPM) AND COS SUPPLEMENTS TO MARICOPA ASSOCIATION OF GOVERNMENT (MAG) DETAILS AND SPECIFICATIONS.

ADWR-PHX PLANT LIST COMPLIANCE

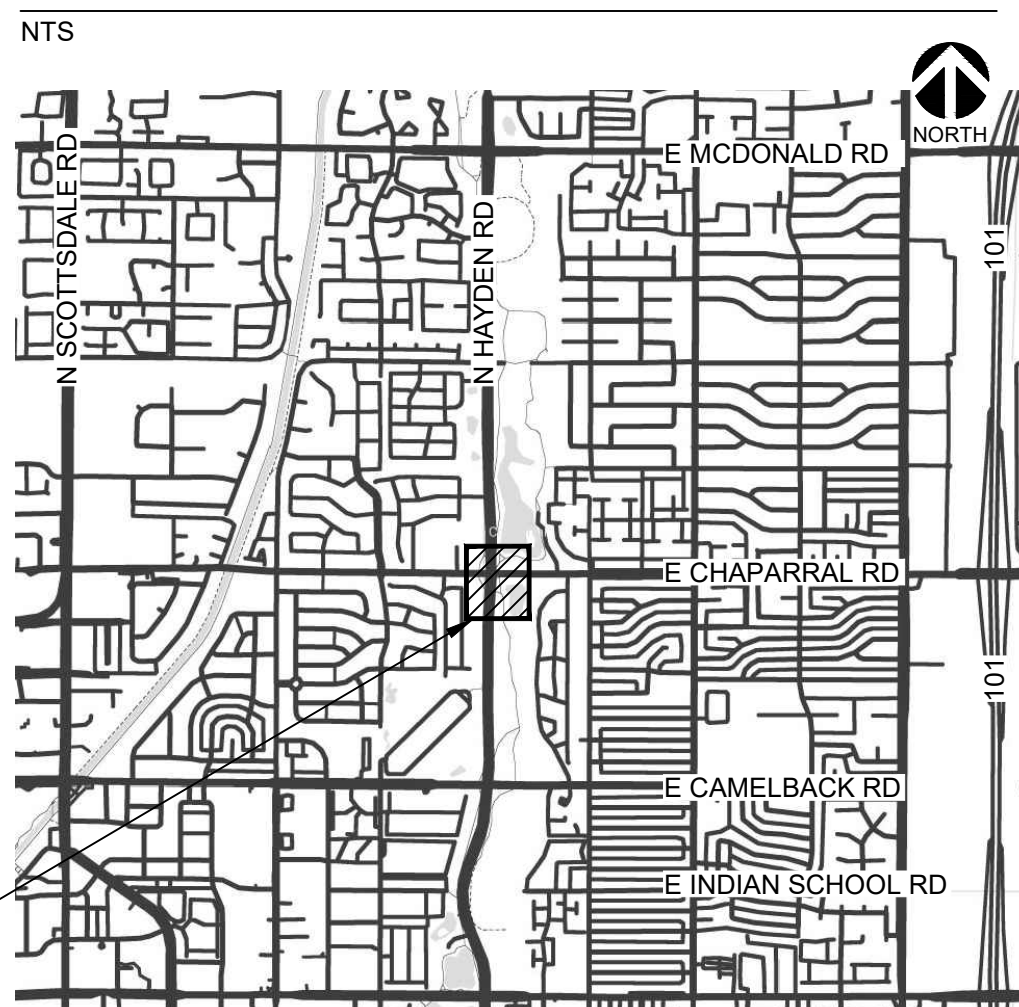
PER C.O.S. REVISED CODE SEC. 49-245, THIS PROJECT IS EXEMPT FROM THIS PROVISION SINCE IT IS A PUBLIC RECREATIONAL FACILITY WITH TURF AREA GREATER THAN TEN (10) ACRES. THEREFORE, THIS FACILITY IS REGULATED AS A LARGE TURF FACILITY UNDER THE CURRENT ADWR MANAGEMENT PLAN FOR THE PHOENIX ACTIVE MANAGEMENT AREA.

NOTE: ALL PLANT MATERIAL PROPOSED FOR THIS PROJECT IS PART OF THE CURRENT ADWR-PHX PLANT LIST.

ABBREVIATIONS

CAL	CALIPER
C.O.S.	CITY OF SCOTTSDALE
CONT	CONTAINER
D.G.	DECOMPOSED GRANITE
GAL	GALLON
G.P.H.	GALLON PER HOUR
L.O.W.	LIMIT OF WORK
O.S.E.	OPEN SPACE EASEMENT
P.B.E.	PEDESTRIAN AND BICYCLE EASEMENT
P.I.P.	PROTECT IN PLACE
QTY	QUANTITY
R.C.V.	REMOTE CONTROL VALVE
R.O.W.	RIGHT OF WAY
SF	SQUARE FEET
SY	SQUARE YARD
CONT.	TYPICAL
V.N.P.	VEHICULAR NON-ACCESS EASEMENT

VICINITY MAP

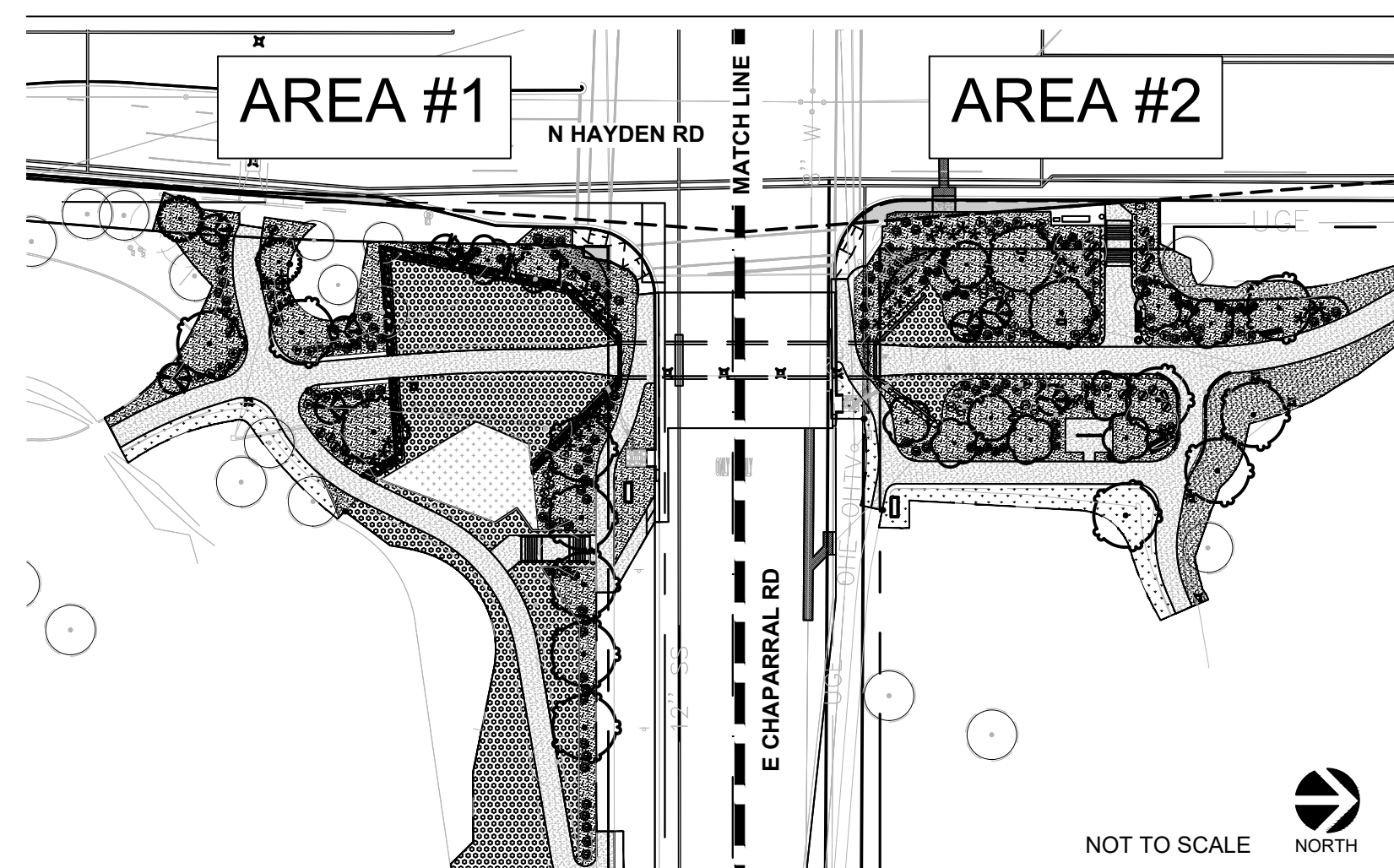


CITY DESIGN GUIDELINES

THE CITY SIGHT DISTANCE LINES AT INTERSECTIONS AND EGRESS DRIVES WILL DICTATE THE MATURE HEIGHT AND LAYOUT REQUIREMENTS OF PLANT MATERIAL ALONG THE EDGES AND WITHIN THE MEDIANS. THIS INCLUDES 25'-0" BY 25'-0" "RIGHT-OF-WAY CORNERS" AND "INTERSECTION TRIANGLES" THAT ARE BASED ON THE SPEED OF THE STREET. THE INTERSECTION TRIANGLES ARE DESIGNED BASED UPON HAYDEN ROAD'S 3-LANE ROADWAY AT 45 MPH SPEED LIMIT. ALL UNDERSTORY PLANT MATERIAL LOCATED WITHIN THE SITE VISIBILITY TRIANGLES WILL HAVE A MATURE HEIGHT OF 18 INCHES. ALL TREES DESIGNED WITHIN THE SITE DISTANCE TRIANGLES SHALL HAVE A CLEAR CANOPY HEIGHT OF 8'-0" ABOVE CURB HEIGHT.

- BEYOND THE SITE VISIBILITY TRIANGLES, SPECIAL ATTENTION WILL BE PAID TO THE FOLLOWING APPLICATIONS OF THE CITY'S DESIGN STANDARD & POLICY MANUAL (DSPM) LANDSCAPE DESIGN REQUIREMENTS TO ENSURE PUBLIC SAFETY:
 - TREE DENSITY - LARGER TREES SHALL BE SPACED AT A MINIMUM OF 25'-0"
 - TREES SHALL NOT BE PLACED WITHIN 15'-0" OF STREET LIGHT POLES
 - TREES SHALL NOT BE PLACED WITHIN 7'-0" OF UNDERGROUND UTILITY PIPES OR CONDUITS
 - TREES SHALL NOT BE LOCATED WITHIN 10'-0" OF EXISTING PRIVATE WALLS
 - TREES SHALL NOT BE PLACED WITHIN THE PUBLIC UTILITY EASEMENTS (P.U.E.)
 - THORNY CACTI SHALL NOT BE LOCATED WITHIN 4'-0" OF A WALKWAY OR CURB
 - SHRUBS SHALL NOT BE PLACED WITHIN 2'-0" OF A WALKWAY OR CURB
 - SHRUBS SHALL NOT BE PLACED WITHIN 5'-0" OF TREES
 - SHRUB SPACING SHALL BE NO LESS THAN THE MATURE SIZE OF THE PLANT
 - SHRUBS WITHIN THE RIGHT-OF-WAY SHALL BE SELECTED FROM THE ADWR'S PLANT LIST FOR THE PHOENIX ACTIVE MANAGEMENT AREA. NO TURF SHALL BE PLANTED IN THE RIGHT-OF-WAY.
 - NO BOULDERS SHALL BE LOCATED WITHIN 10'-0" OF A CURB
 - NO BOULDERS SHALL BE LOCATED WITHIN THE PUBLIC UTILITY EASEMENTS
 - THE FINISHED LANDSCAPE GRADE WITH DECOMPOSED GRANITE SHALL BE SMOOTH, UNIFORM, AND A MINIMUM OF 2" BELOW TOP OF GRADE

KEY MAP



ALL LANDSCAPE AREAS AND MATERIALS, INCLUDING THOSE LOCATED IN PUBLIC RIGHTS-OF-WAY, SHALL BE MAINTAINED IN A HEALTHY, NEAT, CLEAN AND WEED-FREE CONDITION. ANSI A300 STANDARD PRACTICES FOR PRUNING, SUPPORT SYSTEMS, AND SAFETY SHALL BE USED FOR MAINTENANCE CRITERIA. THIS SHALL BE THE RESPONSIBILITY OF THE

(PROPERTY OWNER / DEVELOPER / HOA)

LANDSCAPE PLAN APPROVAL

CASE #	APPROVED BY	DATE

CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THIS PLAN AND ALL DEVIATIONS WILL REQUIRE REAPPROVAL. THE CITY WILL NOT ISSUE A CERTIFICATE OF OCCUPANCY UNTIL INSPECTION SERVICES STAFF APPROVES THE LANDSCAPE INSTALLATION.

PROJECT TEAM

OWNER / DEVELOPER

CITY OF SCOTTSDALE
7447 EAST INDIAN SCHOOL RD. SUITE 205
SCOTTSDALE, ARIZONA 85251
CONTACT: ERIC WALDO, P.E.
PHONE: (480) 312.7245
EMAIL: EWALDO@SCOTTSDALEAZ.GOV

CIVIL ENGINEER

OLSSON PREMIER ENGINEERING CORPORATION
6437 WEST CHANDLER BOULEVARD, SUITE 1
CHANDLER, ARIZONA 85226
CONTACT: KIMBERLY WHEELER
PHONE: (480) 829.6000 X107
EMAIL: KWHEELER@OLSSON.COM

LANDSCAPE ARCHITECT

LOGAN SIMPSON DESIGN, INC.
51 W. THIRD ST. SUITE 450
TEMPE, ARIZONA 85281
CONTACT: JUDY MIELKE
PHONE: (480) 967.1343
EMAIL: JMIELKE@LOGANSIMPSON.COM

PROJECT SITE DATA

ZONING: OS
APN: 173-26-001U AND 173-29-007G
CHARACTER AREA PLAN: SOUTHERN SCOTTSDALE
CASE #:

LANDSCAPE AREA

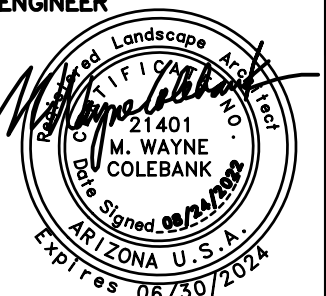
ON-SITE: **25,525 SF** (INCLUDING EXISTING TURF TO BE REPAIRED DUE TO CONSTRUCTION DISTURBANCE).
STREET RIGHT-OF-WAY: **4,720 SF**

SHEET INDEX


L1	LANDSCAPE COVER
L2	LANDSCAPE PLAN - AREA #1
L3	LANDSCAPE PLAN - AREA #2
L4	LANDSCAPE DETAILS
L5	IRRIGATION PLAN - AREA #1
L6	IRRIGATION PLAN - AREA #2
L7	IRRIGATION DETAILS



DATE	REVISION	BY



M. WAYNE
COLEBANK
No. 21401
STATE OF ARIZONA



CITY OF SCOTTSDALE
PUBLIC WORKS
CAPITAL PROJECT
MANAGEMENT
7447 E. INDIAN SCHOOL RD.
SCOTTSDALE, ARIZONA 85251

SHEET TITLE				
LANDSCAPE COVER				
PROJECT TITLE				
INDIAN BEND WASH PATH AT CHAPARRAL ROAD				
SCALE	DESIGNED	DATE	BID NO.	SHT.
HORIZ. —	MP/JM	08/24/23		L1
VERT. —	DRAWN	AS-BUILT	PROJECT NO.	
	MP/BR		410-SF01A-56047	38 OF 44



LOGANSIMPSON
51 WEST THIRD STREET, SUITE 450
TEMPE, AZ 85281
P (480) 967-1343

LANDSCAPE SCHEDULE

TREES	COMMON NAME
	SMOOTHIE CASCALOTE
	MEXICAN BIRD OF PARADISE
	TEXAS OLIVE
	RED PUSH PISTACHE
	TEXAS MOUNTAIN LAUREL
SHRUBS	COMMON NAME
	'MARICOPA RED' FAIRY DUSTER
	DALLAS RED LANTANA
	GOLD MOUND LANTANA
	RIO BRAVO LANGMAN'S SAGE
	BLUE RANGER
ACCENTS	COMMON NAME
	SQUARE LEAF SOTOL
	GIANT HESPERALOE
	BRAKELIGHTS RED HESPERALOE
TURF SOD	DESCRIPTION
	TURF SOD
INERT MATERIAL	DESCRIPTION
	ANGULAR ROCK
	DECOMPOSED GRANITE
	LANDSCAPE CONCRETE HEADER

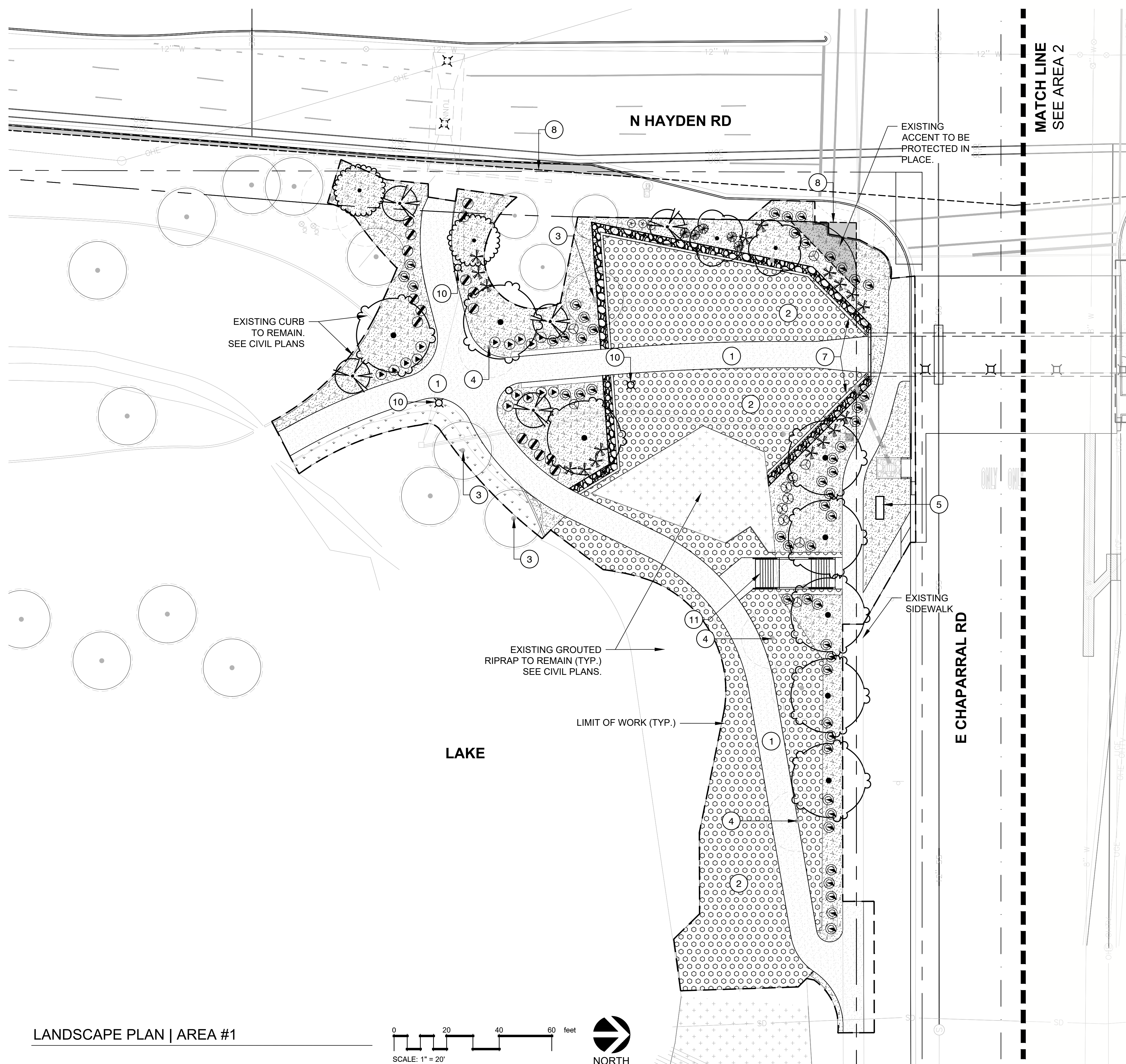
KEY LEGEND

- ① NEW CONCRETE PATH - SEE CIVIL PLANS
- ② NEW GROUTED RIPRAP - SEE CIVIL PLANS
- ③ PROTECT-IN-PLACE TREE (TYP.)
- ④ TREE TO BE DEMOLISHED (TYP.)
- ⑤ PARK SIGN - SEE CIVIL PLANS
- ⑥ PARK BENCH - SEE CIVIL PLANS
- ⑦ CULVERT WINGWALL - SEE CIVIL PLANS
- ⑧ SIGHT VISIBILITY TRIANGLE (SVT)
- ⑨ SALVAGE MEMORIAL PLAQUES - SEE PEDESTRIAN PATH PLAN & PROFILE
- ⑩ LIGHTING FIXTURES (TYP.) - SEE ELECTRICAL PLANS
- ⑪ NEW CONCRETE STEPS - SEE CIVIL PLANS
- ⑫ NEW CONCRETE CURB - SEE DETAIL ON SHEET L4
- ⑬ SALVAGED EXERCISE EQUIPMENT - SEE CIVIL PLANS
- LIMIT OF WORK (TYP.)
- SIGHT VISIBILITY TRIANGLE (TYP.)

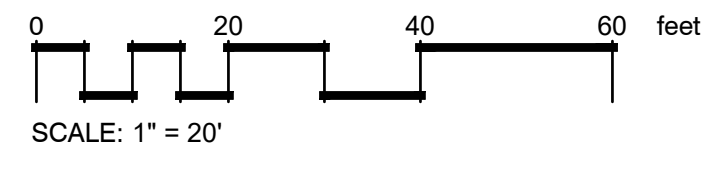
Contact Arizona 811 at least two full working days before you begin excavation

Call 811 or click Arizona811.com

DATE	REVISION	BY
ENGINEER		
	PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251	
SHEET TITLE		
LANDSCAPE PLAN AREA #1		
PROJECT TITLE		
INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE	DESIGNED	DATE
HORIZ. 1" = 20'	MP/JM	08/24/23
VERT. -	DRAWN	AS-BUILT
	MP/BR	
	BID NO.	SHT. L2
	PROJECT NO.	39 OF 44
	410-SF01A-56047	



LANDSCAPE PLAN | AREA #1



PLAN REVIEW NO. - 3765-22



LOGANSIMPSON
51 WEST THIRD STREET, SUITE 450
TEMPE, AZ 85281
P (480) 967-1343

LANDSCAPE SCHEDULE

TREES	COMMON NAME
	SMOOTHIE CASCALOTE
	MEXICAN BIRD OF PARADISE
	TEXAS OLIVE
	RED PUSH PISTACHE
	TEXAS MOUNTAIN LAUREL
SHRUBS	COMMON NAME
	'MARICOPA RED' FAIRY DUSTER
	DALLAS RED LANTANA
	GOLD MOUND LANTANA
	RIO BRAVO LANGMAN'S SAGE
	BLUE RANGER
ACCENTS	COMMON NAME
	SQUARE LEAF SOTOL
	GIANT HESPERALOE
	BRAKELIGHTS RED HESPERALOE
TURF SOD	DESCRIPTION
	TURF SOD
INERT MATERIAL	DESCRIPTION
	ANGULAR ROCK
	DECOMPOSED GRANITE
	LANDSCAPE CONCRETE HEADER

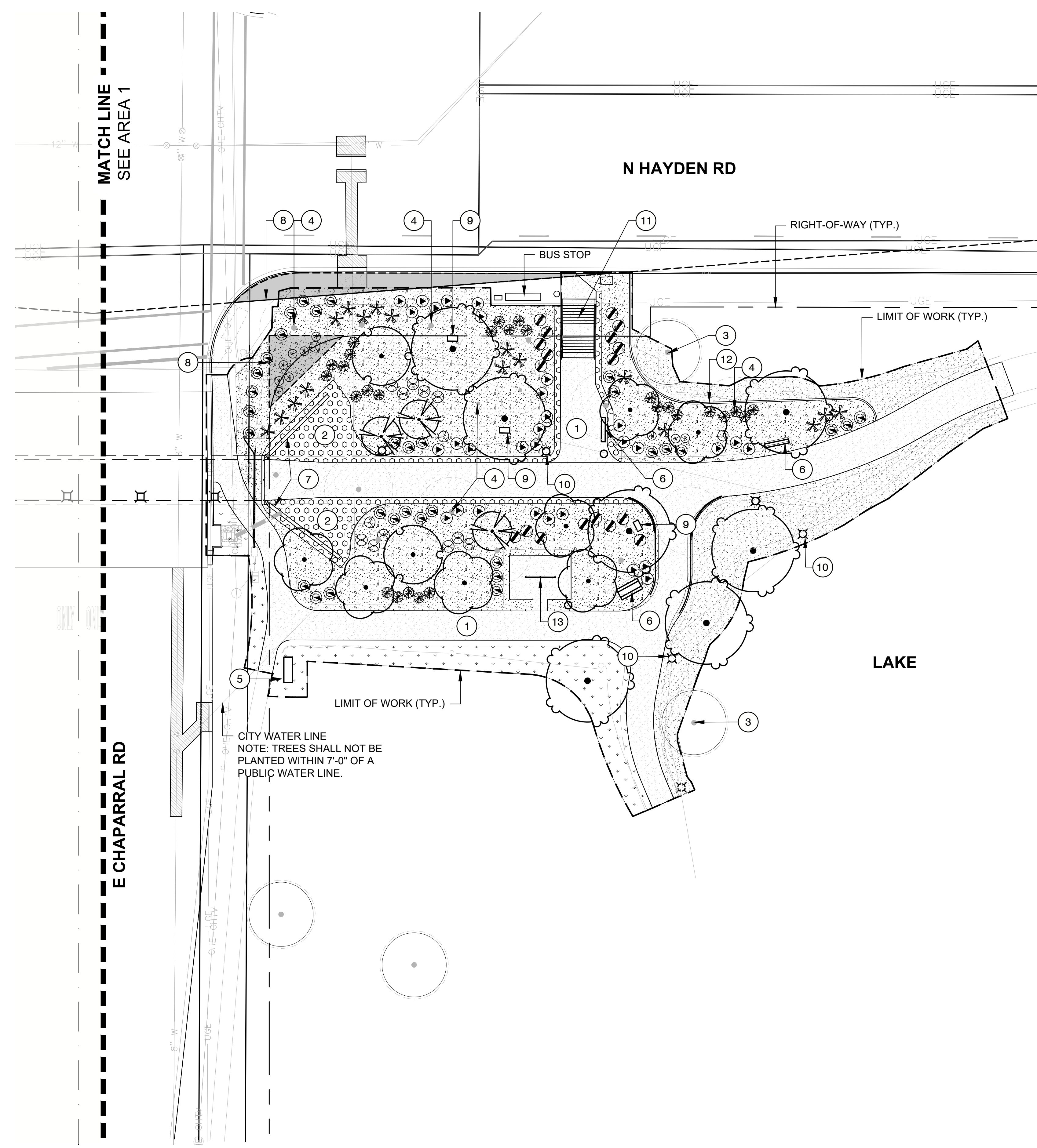
KEY LEGEND

- ① NEW CONCRETE PATH - SEE CIVIL PLANS
- ② NEW GROUTED RIPRAP - SEE CIVIL PLANS
- ③ PROTECT-IN-PLACE TREE (TYP.)
- ④ TREE TO BE DEMOLISHED (TYP.)
- ⑤ PARK SIGN - SEE CIVIL PLANS
- ⑥ PARK BENCH - SEE CIVIL PLANS
- ⑦ CULVERT WINGWALL - SEE CIVIL PLANS
- ⑧ SIGHT VISIBILITY TRIANGLE (SVT)
- ⑨ SALVAGE MEMORIAL PLAQUES - SEE PEDESTRIAN PATH PLAN & PROFILE
- ⑩ LIGHTING FIXTURES (TYP.) - SEE ELECTRICAL PLANS
- ⑪ NEW CONCRETE STEPS - SEE CIVIL PLANS
- ⑫ NEW CONCRETE CURB - SEE DETAIL ON SHEET L4
- ⑬ SALVAGED EXERCISE EQUIPMENT - SEE CIVIL PLANS
- LIMIT OF WORK (TYP.)
- SIGHT VISIBILITY TRIANGLE (TYP.)

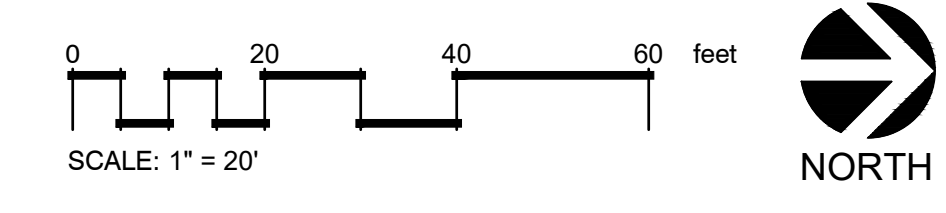


DATE	REVISION	BY
ENGINEER	 PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251	

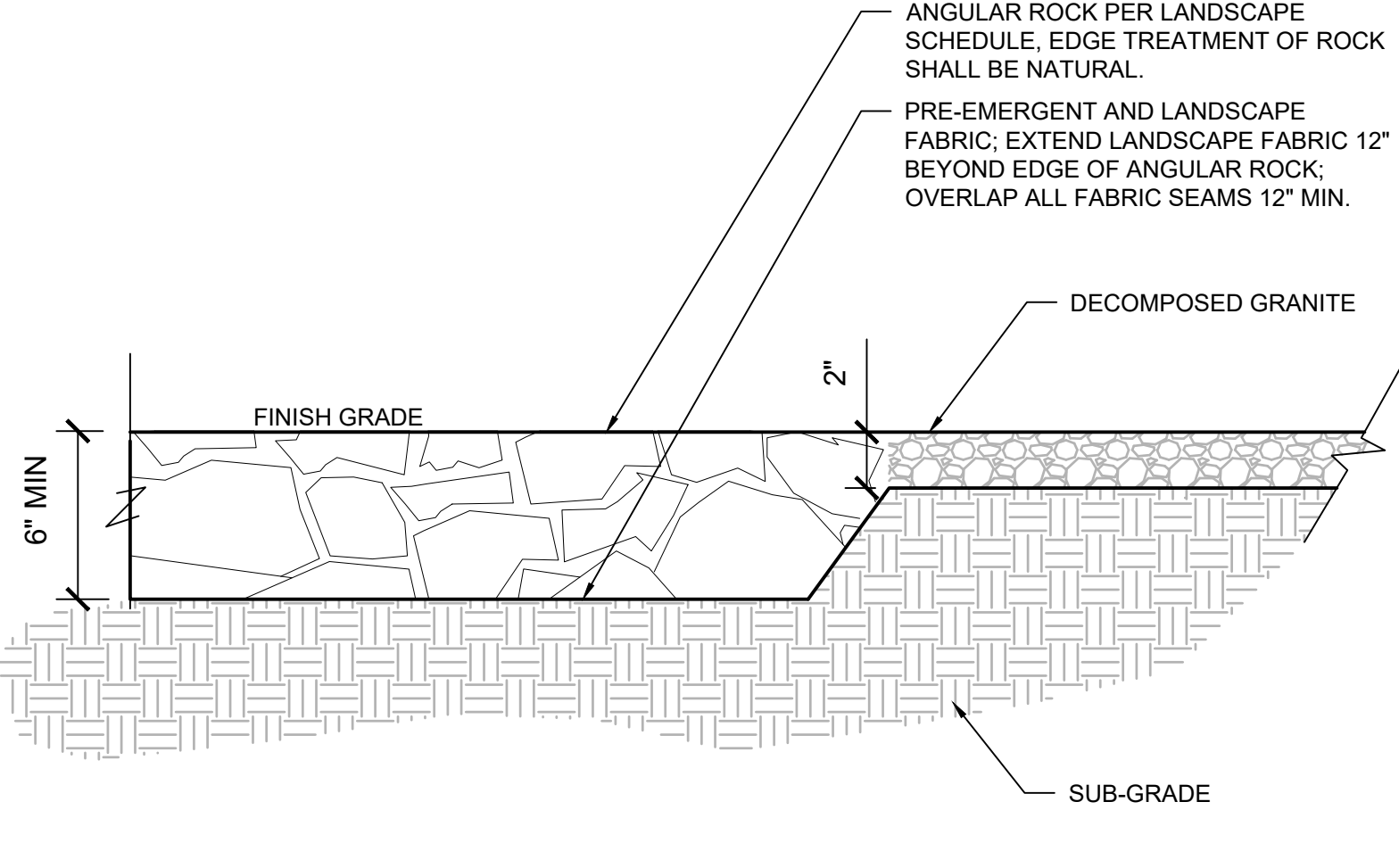
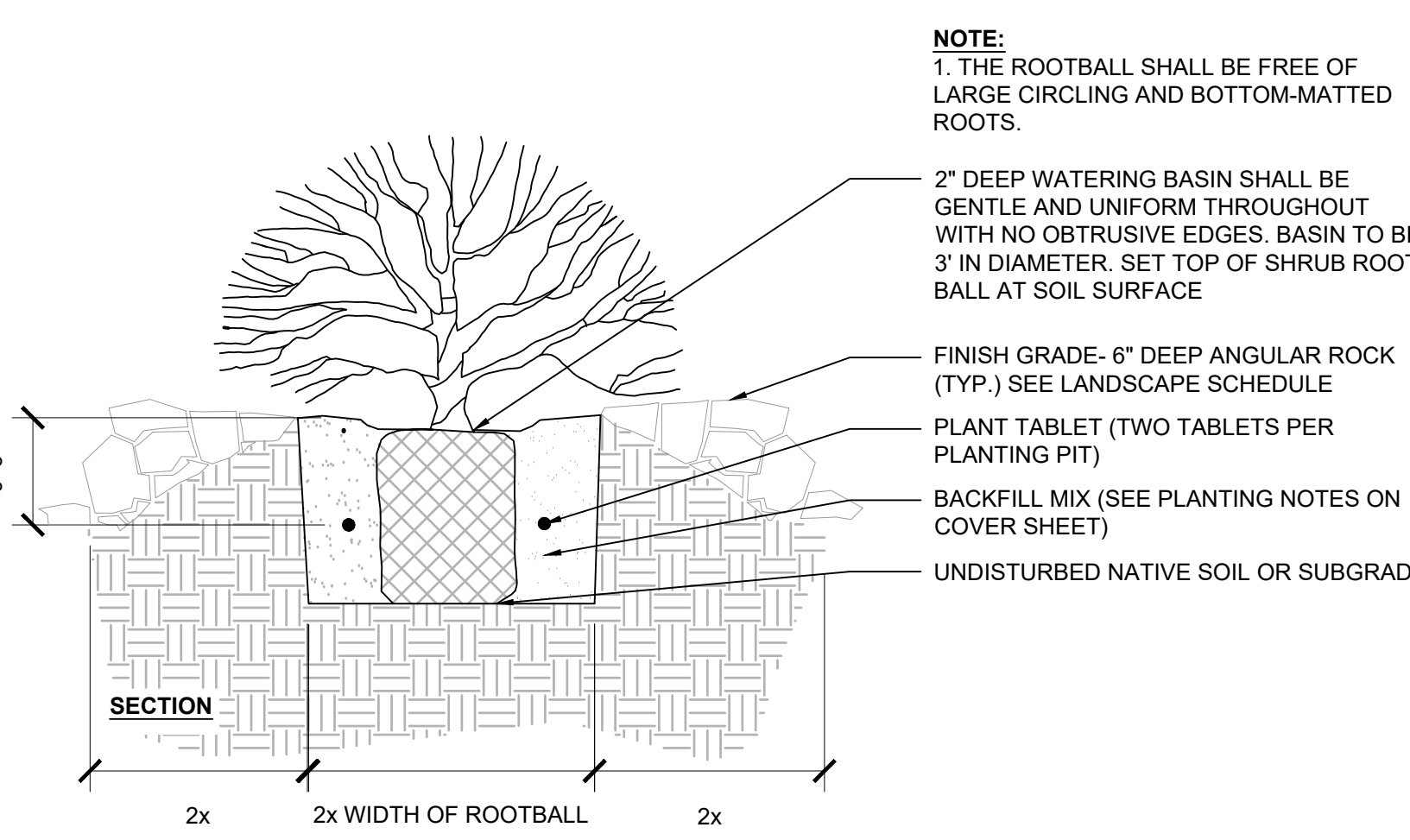
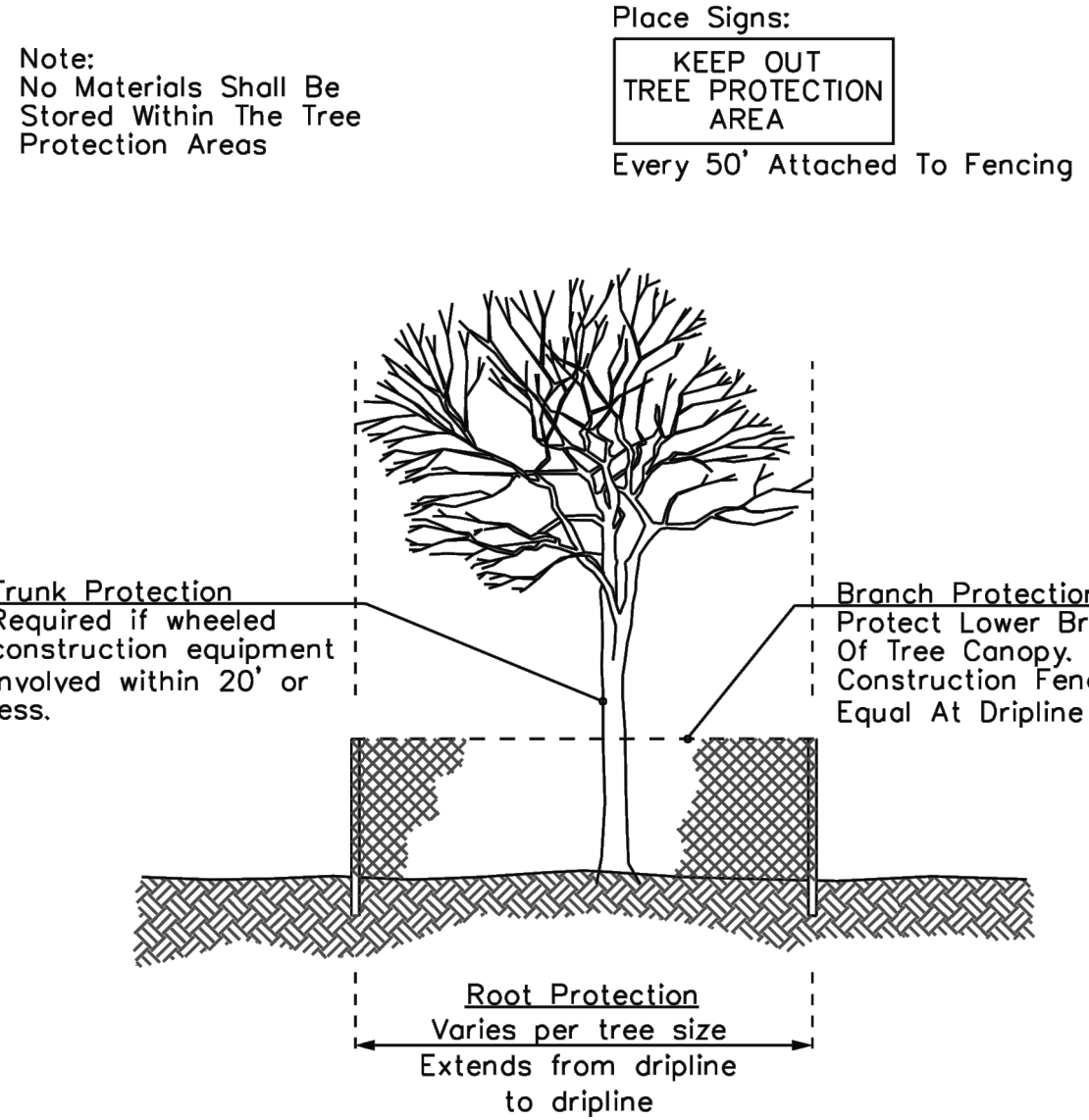
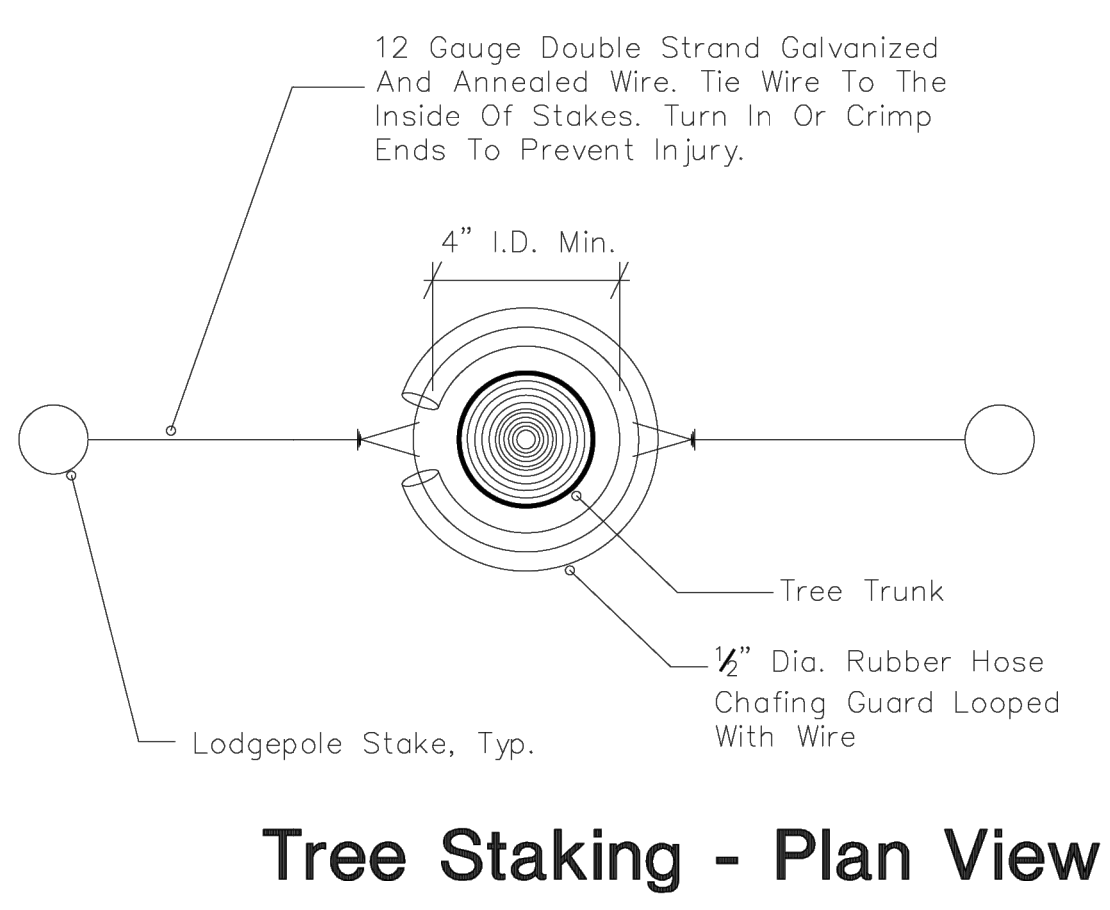
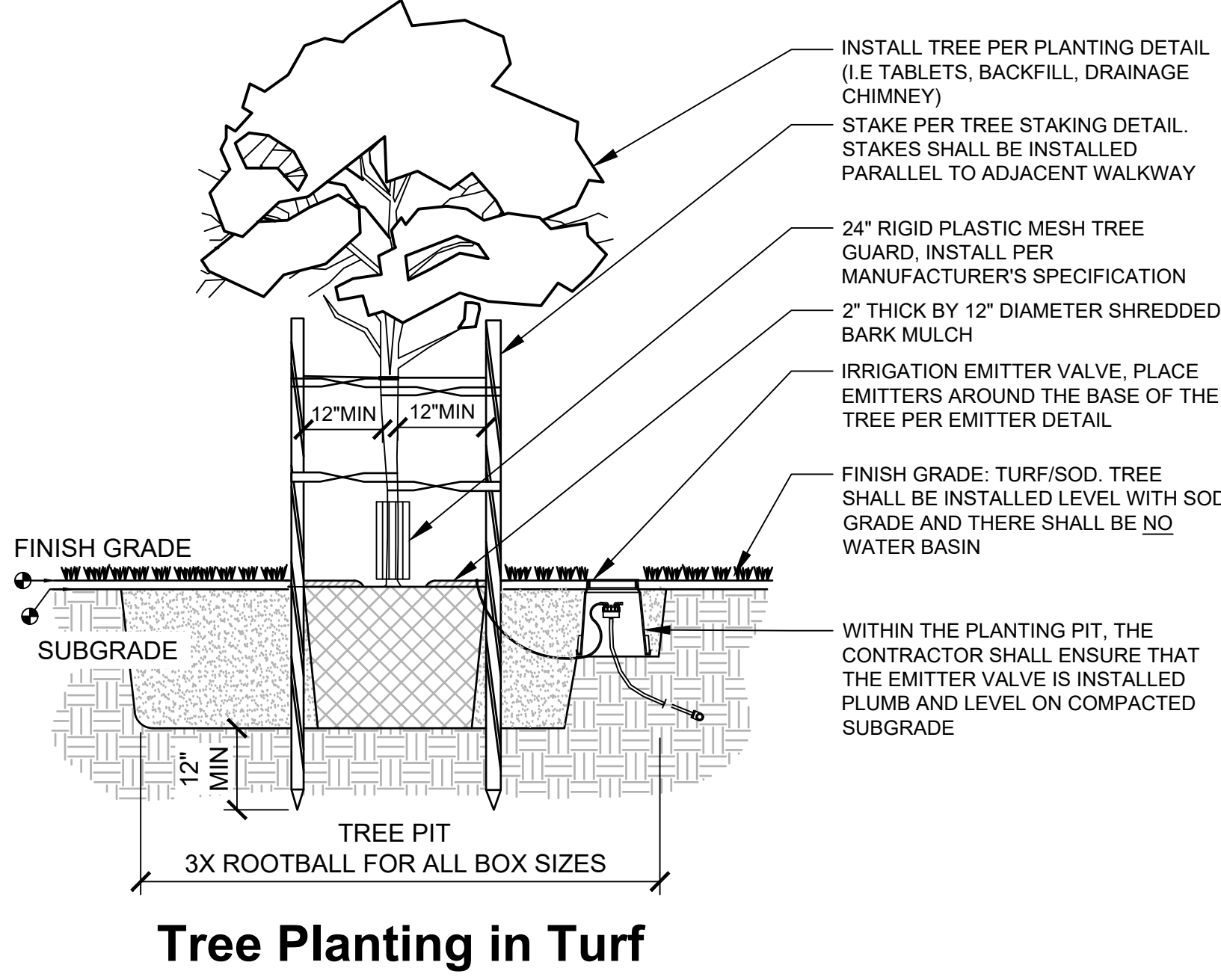
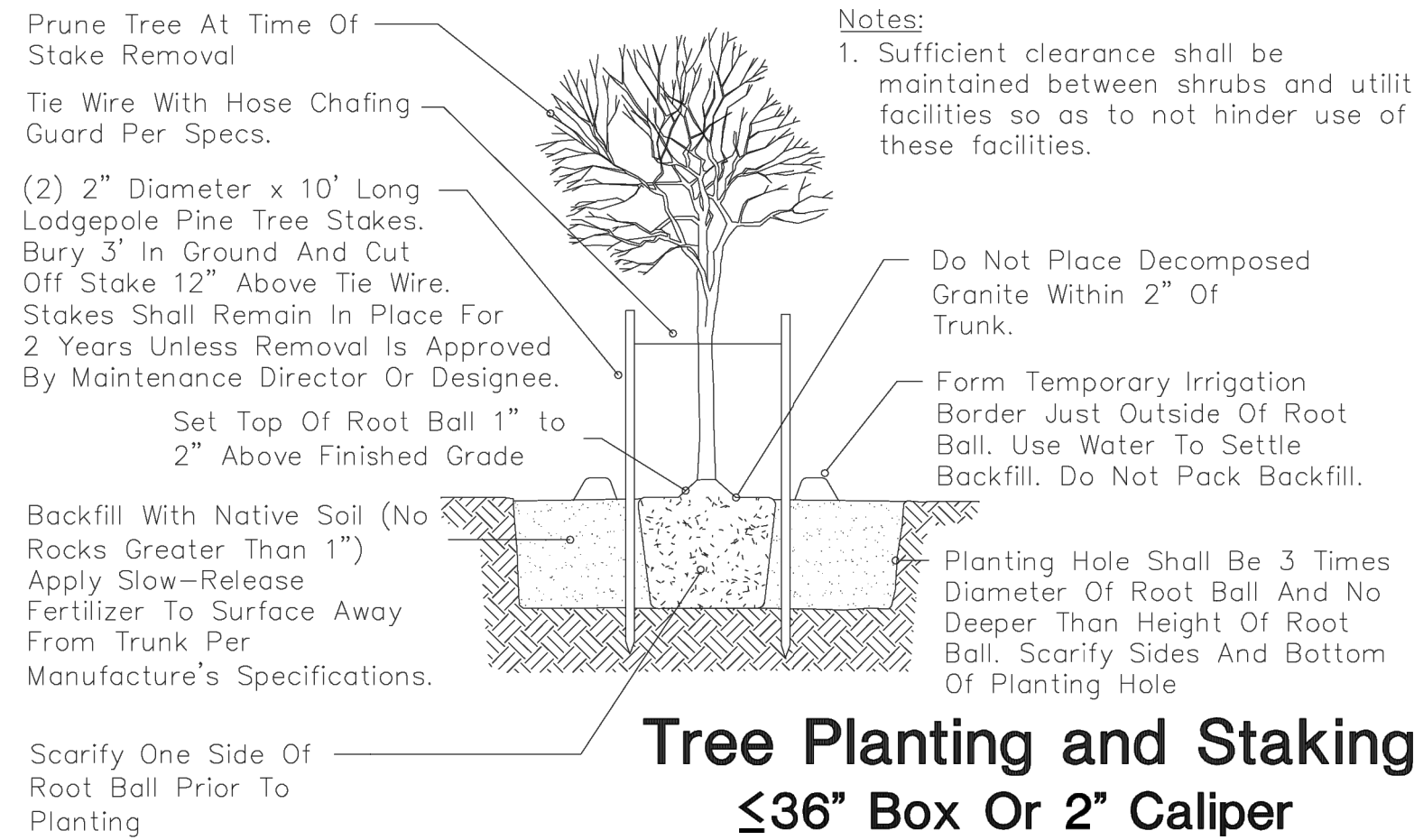
SHEET TITLE				
LANDSCAPE PLAN AREA #2				
PROJECT TITLE				
INDIAN BEND WASH PATH AT CHAPARRAL ROAD				
SCALE	DESIGNED	DATE	BID NO.	SHT.
HORIZ. 1" = 20'	MP/JM	08/24/23		L3
VERT. -	DRAWN	AS-BUILT	PROJECT NO.	40 OF 44
	MP/BR		410-SF01A-56047	



LANDSCAPE PLAN | AREA #2

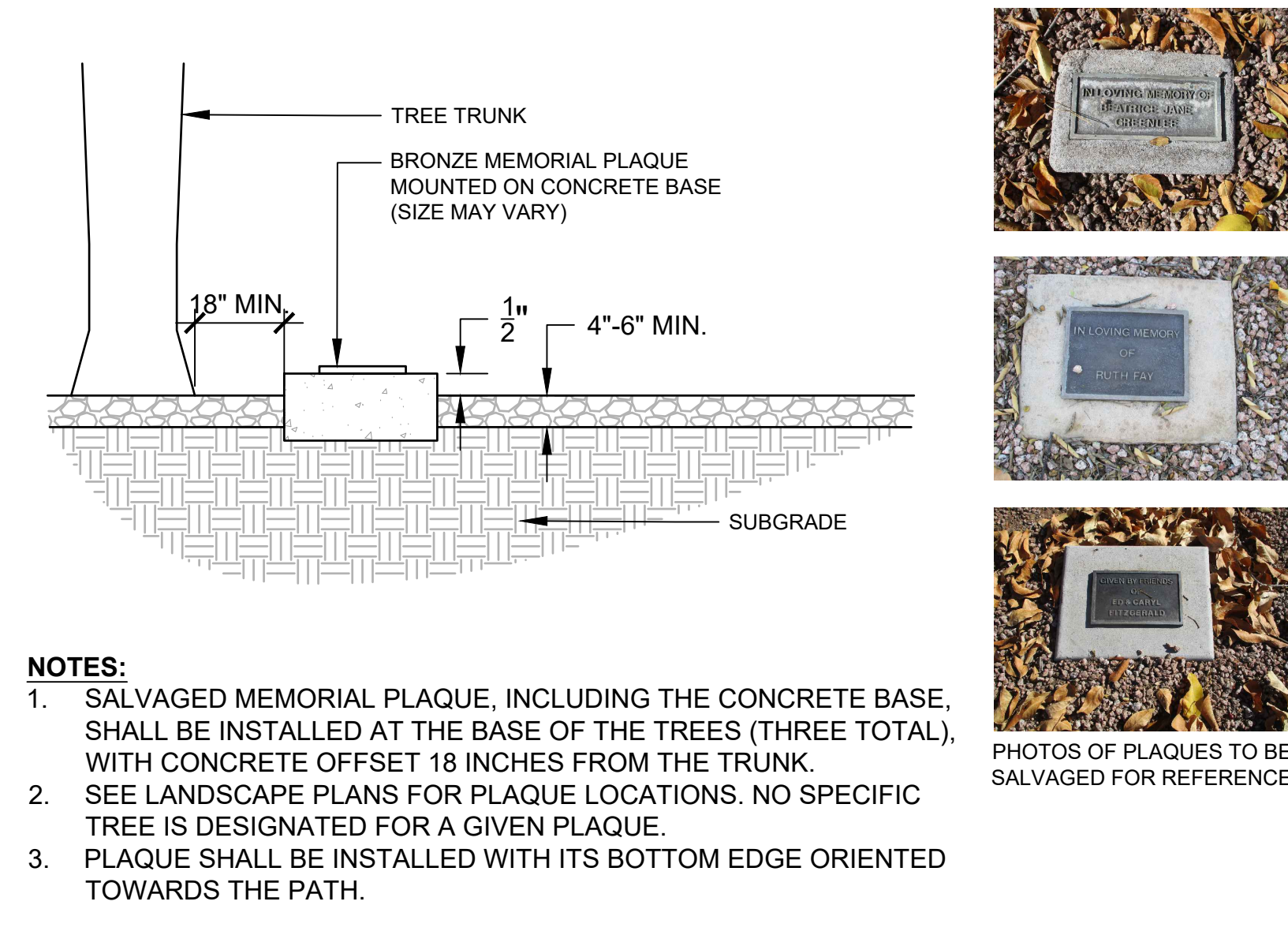


PLAN REVIEW NO.: 3705-22

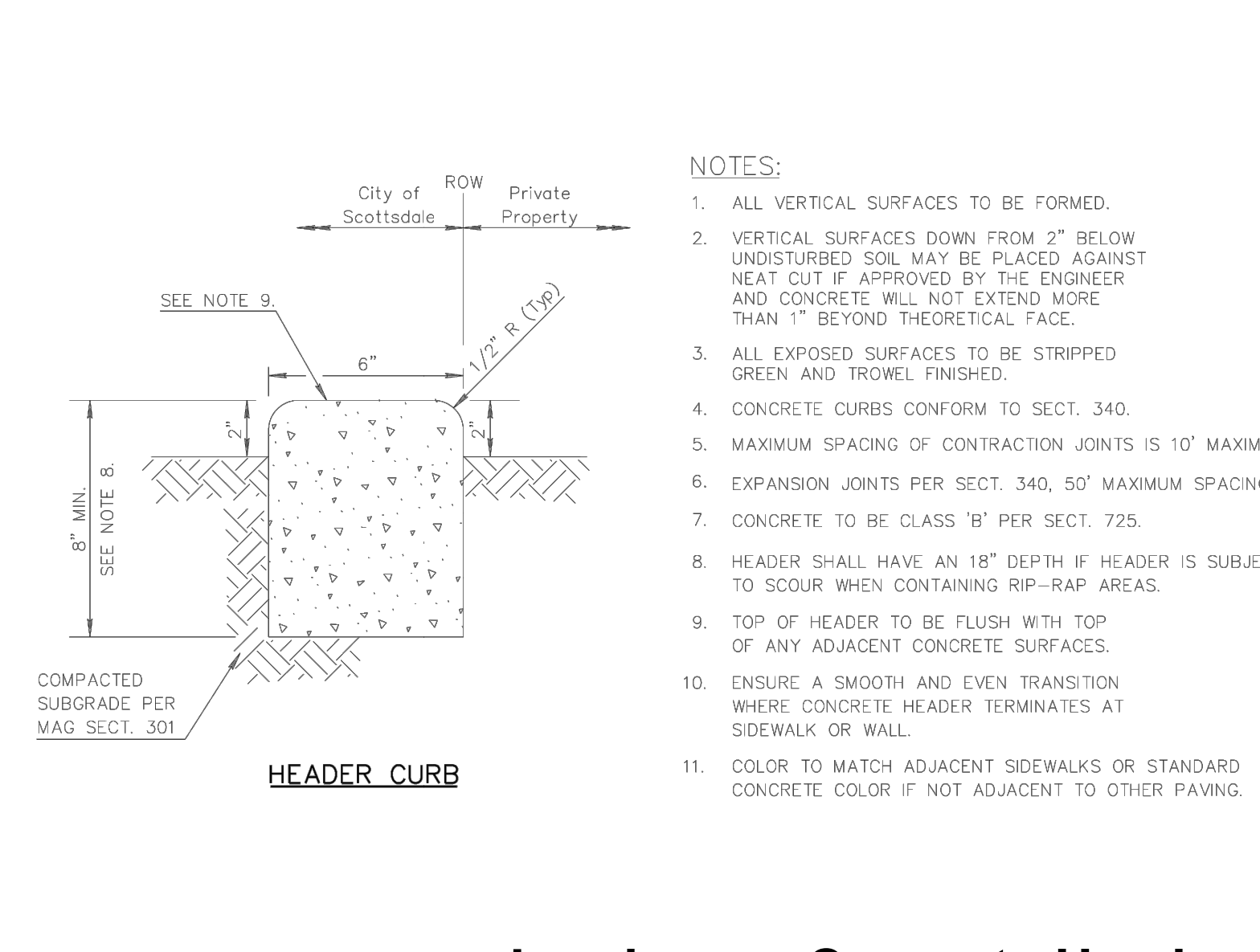


- NOTES:**
- All trees to be protected within the construction area shall be identified with white survey tape wrapped around the trunk. Grouping of more than one tree within the tree protection zone may occur.
 - To prevent tree root smothering, soil stockpiles, supplies, equipment or any other material shall not be placed or stored within a tree drip line or within 25 feet of a tree trunk, whichever is greater.
 - Trenches shall be hand dug within the drip line in areas where roots two inches in diameter and greater are present, or when in close proximity to low branching trees. Whenever possible, roots two inches or greater in diameter shall be tunneled or bored under and shall be covered to prevent dehydration.
 - Tree roots shall not be cut unless cutting is unavoidable. When root cutting is unavoidable, a clean sharp cut with an approved pruning saw shall be made to avoid shredding or smashing. Root cuts should be made back to a lateral root. Whenever possible, root roots should be cut between late fall and bud opening, when root energy supplies are high and conditions are least favorable for disease-causing agents. Exposed roots shall be covered immediately to prevent dehydration. Roots shall be covered with soil or burlap and kept moist. Backfill material around damaged roots shall be a light mulch/sand mixture to promote root recovery.
 - Watering of protected trees in which roots were cut shall be provided by the contractor. Watering schedule to be established by City arborist.
 - Horizontal boring rather than trenching should be used for utility placement within drip line of tree whenever possible.
 - Fencing material shall encircle any tree whose outer drip line edge is within 25 feet of any construction activities.
 - Fencing material shall be orange construction fence a minimum of 4 feet in height.
 - Fencing material shall be set at the drip line or 25 feet from tree trunk, whichever is greater, and maintained in an upright position throughout the duration of construction activities.
 - Any grade changes or retaining wall/tree well installation within the drip line shall be approved by City arborist.

Tree Protection



Tree Memorial Plaques



Landscape Concrete Header

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ARIZONA811
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DATE	REVISION	BY

ENGINEER
 M. WAYNE COLEBANK
 21401
 06/30/2024
 ARIZONA U.S.A.

CITY OF SCOTTSDALE
 PUBLIC WORKS
 CAPITAL PROJECT MANAGEMENT
 7447 E. INDIAN SCHOOL RD.
 SCOTTSDALE, ARIZONA 85251

SHEET TITLE
LANDSCAPE DETAILS

PROJECT TITLE
INDIAN BEND WASH PATH AT CHAPARRAL ROAD

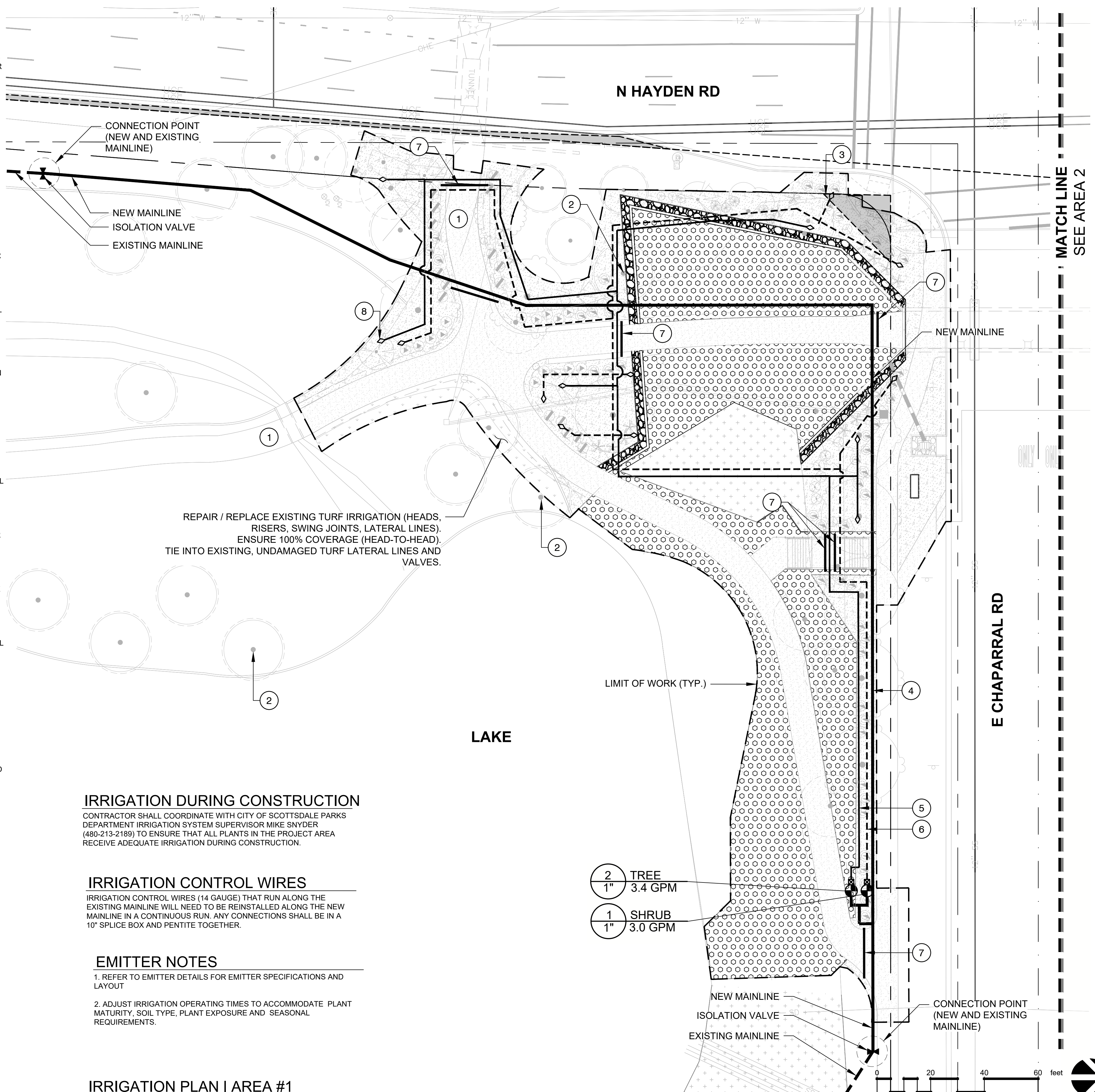
SCALE	DESIGNED	DATE	BID NO.	SHT.
HORIZ. —	MP/JM	08/24/23		L4
VERT. —	MP/BR	AS-BUILT		

PROJECT NO. 410-SF01A-56047
41 OF 44

PLAN REVIEW NO.: 3765-22

IRRIGATION NOTES:

- PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL CONTACT BLUE STAKE TO VERIFY LOCATIONS AND DEPTHS OF ANY UTILITIES THAT MAY BE AFFECTED BY HIS/HER WORK, AND SHALL BE RESPONSIBLE FOR DAMAGES TO SUCH UTILITIES CAUSED AS A RESULT OF THIS WORK.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR FAULTY MATERIAL OR FAULTY WORKMANSHIP FOR THE PERIOD OF 1-YEAR FROM SUBSTANTIAL COMPLETION OF LANDSCAPE WORK.
- THE IRRIGATION SYSTEM IS DESIGNED FOR A MINIMUM OF 60 PSI. CONTRACTOR SHALL PROVIDE A STATIC PRESSURE READING BEFORE STARTING ANY WORK. IF WATER PRESSURE IS LESS THAN 60 PSI NOTIFY THE CONTRACTING OFFICER OR HIS DESIGNEE BEFORE STARTING WORK.
- THE CONTRACTOR WILL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, CODES, AND REGULATIONS APPLICABLE TO THE IRRIGATION SYSTEM COVERED BY THESE PLANS.
- ALL PERMITS, REQUIRED TO COMPLETE THE IRRIGATION WORK SHOWN ON THE PLANS SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO START OF WORK.
- IRRIGATION PLANS ARE SCHEMATIC. ALL VALVES AND PIPING ARE SHOWN DIAGRAMMATICALLY FOR CLARITY. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER PLACEMENT OF SYSTEM COMPONENTS. ALL IRRIGATION COMPONENTS TO BE LOCATED IN PLANTING AREAS. SOME IRRIGATION IS SHOWN OUTSIDE OF PLANTING AREAS FOR CLARITY PURPOSES ONLY. COORDINATE IRRIGATION WORK WITH PLANTING PLANS TO AVOID CONFLICTING LOCATIONS BETWEEN PIPING AND PLANT PITS. CONTRACTOR WILL BE RESPONSIBLE FOR 100% IRRIGATION COVERAGE TO PLANT MATERIAL SHOWN ON THE PLANS, INCLUDING EXISTING TREES AND PLANTS TO REMAIN.
- THE CONTRACTOR SHALL CONNECT TO THE NEW WATER METERS AND INSTALL TYPE 'K' COPPER THROUGH THE BACKFLOW PREVENTER AS DETAILED.
- ALL PIPES SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATION AND ASTM STANDARD D-2774 AT THE DEPTHS SHOWN IN THE IRRIGATION DETAILS.
- ALL THREADED JOINTS SHALL BE COATED WITH TEFLON TAPE UNLESS OTHERWISE SPECIFIED BY THE MANUFACTURER. USE LIQUID TEFLON ON METAL PIPE THREADS ONLY.
- CONTRACTOR SHALL FLUSH ALL LINES PRIOR TO INSTALLATION OF EMITTERS, END CAPS OR ANY OTHER DEVICE THAT IMPACTS THE OUTWARD FLOW OF SYSTEM WATER.
- ALL ELECTRICAL CONNECTIONS SHALL BE MADE WITHIN REMOTE CONTROL VALVE BOXES, CONTROLLER ENCLOSURES AND VALVE BOXES DESIGNATED SPECIFICALLY FOR ELECTRICAL CONNECTIONS. NO SPLICES OUTSIDE OF BOXES OR ENCLOSURES WILL BE ACCEPTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE AUTOMATIC CONTROLLER. ALL ELECTRICAL WORK SHALL BE INSTALLED PER LOCAL CODE.
- INSTALL ALL VALVE WIRING IN MAINLINE TRENCH.
- INSTALL ALL REMOTE CONTROL VALVES AT HEIGHTS INDICATED ON DETAILS, AS HIGH AS POSSIBLE BUT ALLOWING CLEARANCE BETWEEN VALVE BOX LID AND FLOW CONTROL HANDLE ON REMOTE CONTROL VALVE.
- INSTALL ALL MAINLINE ISOLATION BALL VALVES IN A PLASTIC VALVE BOX PER DETAILS.
- AT THE COMPLETION OF THE PROJECT, SUPPLY THE FOLLOWING MATERIAL TO THE CONTRACTING OFFICER OR HIS DESIGNEE: TWO (2) WRENCHES FOR DISASSEMBLY AND ADJUSTING OF EACH TYPE OF VALVE SUPPLIED. TWO (2) KEYS FOR EACH TYPE OF CONTROLLER. TWO (2) ISOLATION VALVE OPERATING HANDLES. THREE (3) VALVE BOX KEYS OR WRENCHES.
- ALL PVC SOLVENT WELD FITTINGS SHALL BE 'DURA' OR APPROVED EQUAL.
- PROVIDE TWO (2) SPARE WIRES ALONG THE ENTIRE LENGTH OF MAINLINE AND LOOPED INTO EACH ELECTRIC REMOTE CONTROL VALVE BOX.
- TREES AND SHRUBS SHALL BE IRRIGATED ON SEPARATE REMOTE CONTROL VALVES.
- AS-BUILT DRAWINGS, CONTROLLER CHARTS, MAINTENANCE MANUALS AND SPECIALTY TOOLS SHALL BE TURNED OVER TO THE CONTRACTING OFFICER OR HIS DESIGNEE AT THE COMPLETION OF CONSTRUCTION.
- A ONE-YEAR WARRANTY ON MATERIALS AND INSTALLATION SHALL COMMENCE AT THE SUBSTANTIAL COMPLETION.
- ALL IRRIGATION PIPING REGARDLESS OF SIZE AND CLASS IS TO BE INCASED IN A PIPE SLEEVE WHEN LOCATED UNDER IMPERVIOUS SURFACE MATERIAL, INCLUDING ANGULAR ROCK AREAS



IRRIGATION LEGEND

SYMBOL	ITEM	MODEL	DESCRIPTION
			EXISTING METER
			EXISTING CONTROLLER
			EXISTING BACKFLOW PREVENTER
	ISOLATION VALVE	SEE SPECS	EXISTING MASTER VALVE
	VALVE	SEE SPECS	ISOLATION VALVE
	VALVE	SEE SPECS	REMOTE CONTROL VALVE
	WYE FILTER	SEE SPECS	WYE FILTER
N/S	EMITTER	SEE SPECS	PRESSURE REGULATOR
N/S	EMITTER	SEE SPECS	MULTI OUTLET EMITTER (1 GPH)
	END CAP	SEE SPECS	MULTI OUTLET EMITTER (2.0 GPH)
			FLUSH END CAP

	¾" SCHEDULE 40 PVC PIPE LATERAL - PURPLE (TREE)
	¾" SCHEDULE 40 PVC PIPE LATERAL - PURPLE (SHRUB)
	SCHEDULE 40 PVC MAINLINE - PURPLE
	EXISTING MAINLINE
	SCHEDULE 40 PVC SLEEVE

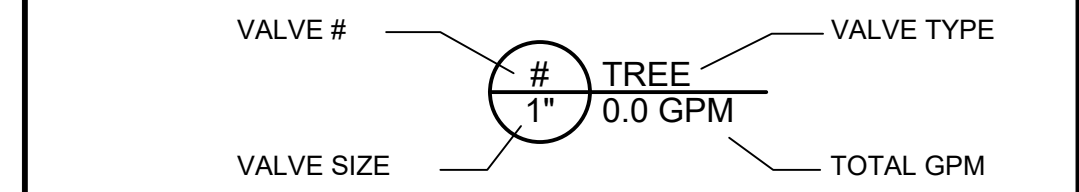
IRRIGATION SLEEVES

- USE SCHEDULE 40 PIPE, 2 TIMES THE DIAMETER OF THE PIPE(S) BEING SLEEVED, MINIMUM 2".
- CONTROL WIRES INSTALLED THROUGH IRRIGATION SLEEVES SHALL BE ENCASED IN A PVC ELECTRICAL CONDUIT SIZED TO CONTAIN THE REQUIRED NUMBER OF CONDUCTORS. WIRE SLEEVES CROSSING STREET PAVING SHALL HAVE A 10" PULL BOX AT EACH END.
- SLEEVES SHALL EXTEND A MINIMUM OF 12-INCHES BEYOND ALL WALKS, CURBS, PAVEMENT AND HARDSCAPE AND THE ENDS SHALL BE SECURELY TAPED CLOSED. ONE ADDITIONAL SLEEVE SHALL BE INSTALLED WITH ENDS TAPED FOR FUTURE USE, SIZED TO MATCH THE LARGEST REQUIRED SLEEVE.
- SLEEVES SHALL BE STAGGERED AND OFFSET SO THAT SLEEVE USE IS NOT OBSTRUCTED BY OTHER PIPES.

IRRIGATION LATERALS

- WHEN DISTANCE BETWEEN RCV AND TURF ROTOR ARE 50' OR GREATER USE THE NEXT LARGEST PIPE SIZE DUE TO HYDRAULIC LOSSES.
- IN SOME CASES IRRIGATION PIPE SIZES SHOWN ON PLANS ARE LARGER THAN THE SIZE SHOWN ON PIPE SCHEDULE. USE SIZES AS SHOWN. IN NO CASE SHALL PIPE BE SIZED TO EXCEED 5 FEET PER SECOND.
- LATERAL PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING ¾".

VALVE CALLOUT



KEY LEGEND

- EXISTING CONCRETE PATH - SEE CIVIL PLANS
 - PROTECT-IN-PLACE TREE (TYP.)
 - SIGHT VISIBILITY TRIANGLE (SVT)
 - IRRIGATION MAINLINE (TYP.)
 - TREE LATERAL (TYP.)
 - SHRUB LATERAL (TYP.)
 - IRRIGATION SLEEVE (TYP.)
 - FLUSH END CAP (TYP.)
- LIMIT OF WORK (TYP.)
 VISIBILITY TRIANGLE (TYP.)

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IRRIGATION DURING CONSTRUCTION

CONTRACTOR SHALL COORDINATE WITH CITY OF SCOTTSDALE PARKS DEPARTMENT IRRIGATION SYSTEM SUPERVISOR MIKE SNYDER (480-213-2189) TO ENSURE THAT ALL PLANTS IN THE PROJECT AREA RECEIVE ADEQUATE IRRIGATION DURING CONSTRUCTION.

IRRIGATION CONTROL WIRES

IRRIGATION CONTROL WIRES (14 GAUGE) THAT RUN ALONG THE EXISTING MAINLINE WILL NEED TO BE REINSTALLED ALONG THE NEW MAINLINE IN A CONTINUOUS RUN. ANY CONNECTIONS SHALL BE IN A 10" SPLICE BOX AND PENITTE TOGETHER.

EMITTER NOTES

- REFER TO EMITTER DETAILS FOR EMITTER SPECIFICATIONS AND LAYOUT
- ADJUST IRRIGATION OPERATING TIMES TO ACCOMMODATE PLANT MATURITY, SOIL TYPE, PLANT EXPOSURE AND SEASONAL REQUIREMENTS.

EMITTER SCHEDULE

COMMON NAME	FLOW PER OUTLET	MANIFOLD OUTLET	OPEN OUTLETS	GPH PER PLANT
TREES				
CASCALOTE	2.0 GPH	MULTI-OUTLET	6	12.0
BIRD OF PARADISE	2.0 GPH	MULTI-OUTLET	6	12.0
TEXAS OLIVE	2.0 GPH	MULTI-OUTLET	6	12.0
PISTACHE	2.0 GPH	MULTI-OUTLET	6	12.0
MOUNTAIN LAUREL	2.0 GPH	MULTI-OUTLET	6	12.0
SHRUBS				
MARICOPA RED	1.0 GPH	MULTI-OUTLET	2	2.0
RED LANTANA	1.0 GPH	MULTI-OUTLET	2	2.0
GOLD LANTANA	1.0 GPH	MULTI-OUTLET	2	2.0
LANGMAN'S SAGE	1.0 GPH	MULTI-OUTLET	2	2.0
BLUE RANGER	1.0 GPH	MULTI-OUTLET	2	2.0
ACCENTS				
SOTOL	0.5 GPH	MULTI-OUTLET	1	0.5
GIANT HESPERALOE	0.5 GPH	MULTI-OUTLET	1	0.5
RED HESPERALOE	0.5 GPH	MULTI-OUTLET	1	0.5

IRRIGATION PLAN | AREA #1

DATE	REVISION	BY
ENGINEER		
		PUBLIC WORKS CAPITAL PROJECT MANAGEMENT
SHEET TITLE IRRIGATION PLAN AREA #1		
PROJECT TITLE INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE	DESIGNED	DATE
HORIZ. 1" = 20'	MP/JM	08/24/23
VERT.	DRAWN	AS-BUILT
	MP/BR	
BID NO. 410-SF01A-56047		SHT. L5 42 OF 44

IRRIGATION LEGEND

SYMBOL	ITEM	MODEL	DESCRIPTION
			EXISTING METER
			EXISTING CONTROLLER
			EXISTING BACKFLOW PREVENTER
			EXISTING MASTER VALVE
	ISOLATION VALVE	SEE SPECS	ISOLATION VALVE
	VALVE	SEE SPECS	REMOTE CONTROL VALVE
	WYE FILTER	SEE SPECS	WYE FILTER
N/S	EMITTER	SEE SPECS	PRESSURE REGULATOR
N/S	EMITTER	SEE SPECS	MULTI OUTLET EMITTER (1 GPH)
	EMITTER	SEE SPECS	MULTI OUTLET EMITTER (2.0 GPH)
	END CAP	SEE SPECS	FLUSH END CAP

	3/4" SCHEDULE 40 PVC PIPE LATERAL - PURPLE (TREE)
	3/4" SCHEDULE 40 PVC PIPE LATERAL - PURPLE (SHRUB)
	SCHEDULE 40 PVC MAINLINE - PURPLE
	EXISTING MAINLINE
	SCHEDULE 40 PVC SLEEVE

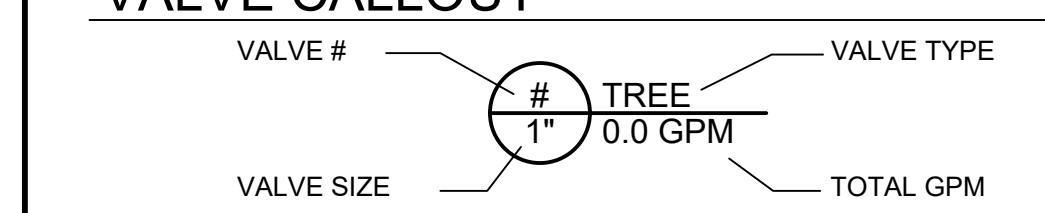
IRRIGATION SLEEVES

- USE SCHEDULE 40 PIPE, 2 TIMES THE DIAMETER OF THE PIPE(S) BEING SLEEVED, MINIMUM 2".
- CONTROL WIRES INSTALLED THROUGH IRRIGATION SLEEVES SHALL BE ENCASED IN A PVC ELECTRICAL CONDUIT SIZED TO CONTAIN THE REQUIRED NUMBER OF CONDUCTORS. WIRE SLEEVES CROSSING STREET PAVING SHALL HAVE A 10" PULL BOX AT EACH END.
- SLEEVES SHALL EXTEND A MINIMUM OF 12-INCHES BEYOND ALL WALKS, CURBS, PAVEMENT AND HARDSCAPE AND THE ENDS SHALL BE SECURELY TAPED CLOSED. ONE ADDITIONAL SLEEVE SHALL BE INSTALLED WITH ENDS TAPED FOR FUTURE USE, SIZED TO MATCH THE LARGEST REQUIRED SLEEVE.
- SLEEVES SHALL BE STAGGERED AND OFFSET SO THAT SLEEVE USE IS NOT OBSTRUCTED BY OTHER PIPES.

IRRIGATION LATERALS

- WHEN DISTANCE BETWEEN RCV AND TURF ROTOR ARE 50' OR GREATER USE THE NEXT LARGEST PIPE SIZE DUE TO HYDRAULIC LOSSES.
- IN SOME CASES IRRIGATION PIPE SIZES SHOWN ON PLANS ARE LARGER THAN THE SIZE SHOWN ON PIPE SCHEDULE. USE SIZES AS SHOWN, IN NO CASE SHALL PIPE BE SIZED TO EXCEED 5 FEET PER SECOND.
- LATERAL PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 3/4".

VALVE CALLOUT



KEY LEGEND

- ① EXISTING CONCRETE PATH - SEE CIVIL PLANS
- ② PROTECT-IN-PLACE TREE (TYP.)
- ③ SIGHT VISIBILITY TRIANGLE (SVT)
- ④ IRRIGATION MAINLINE (TYP.)
- ⑤ TREE LATERAL (TYP.)
- ⑥ SHRUB LATERAL (TYP.)
- ⑦ IRRIGATION SLEEVE (TYP.)
- ⑧ FLUSH END CAP (TYP.)

- LIMIT OF WORK (TYP.)
- VISIBILITY TRIANGLE (TYP.)

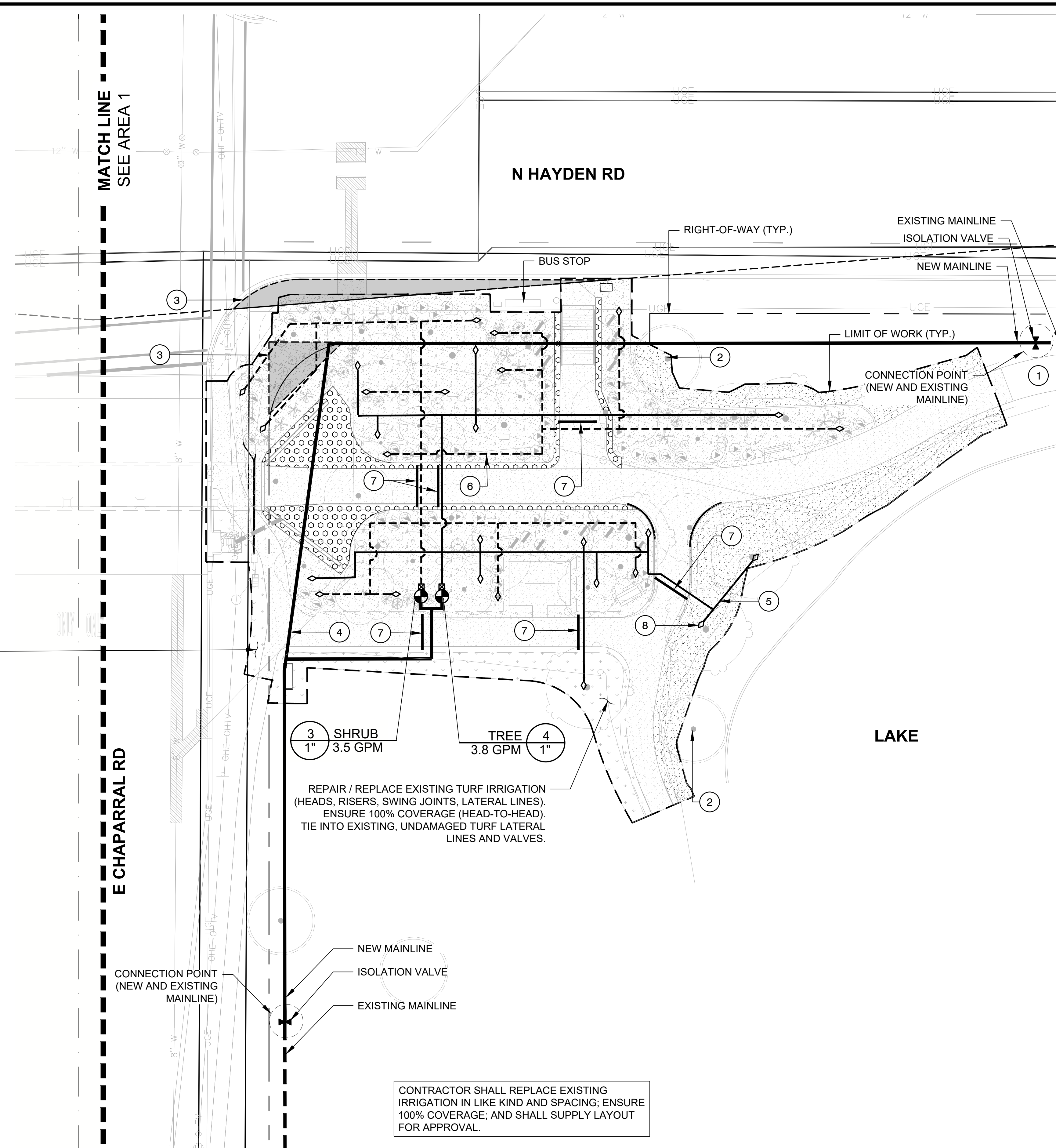
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DATE	REVISION	BY
ENGINEER	PUBLIC WORKS	
	CAPITAL PROJECT MANAGEMENT	
	7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251	

SHEET TITLE: **IRRIGATION PLAN AREA #2**

PROJECT TITLE: INDIAN BEND WASH PATH AT CHAPARRAL ROAD			
SCALE	DESIGNED	DATE	BID NO.
HORIZ. 1" = 20'	MP/JM	08/24/23	
VERT. -	MP/BR	AS-BUILT	
PROJECT NO. 410-SF01A-56047			SHT. 43 OF 44



REPAIR / REPLACE EXISTING TURF IRRIGATION (HEADS, RISERS, SWING JOINTS, LATERAL LINES). ENSURE 100% COVERAGE (HEAD-TO-HEAD). TIE INTO EXISTING, UNDAMAGED TURF LATERAL LINES AND VALVES. (TYP.)

SHRUB 1" 3.5 GPM
 TREE 1" 3.8 GPM

REPAIR / REPLACE EXISTING TURF IRRIGATION (HEADS, RISERS, SWING JOINTS, LATERAL LINES). ENSURE 100% COVERAGE (HEAD-TO-HEAD). TIE INTO EXISTING, UNDAMAGED TURF LATERAL LINES AND VALVES.

CONTRACTOR SHALL REPLACE EXISTING IRRIGATION IN LIKE KIND AND SPACING; ENSURE 100% COVERAGE; AND SHALL SUPPLY LAYOUT FOR APPROVAL.

SEE GENERAL IRRIGATION NOTES ON SHEET L5

IRRIGATION DURING CONSTRUCTION

CONTRACTOR SHALL COORDINATE WITH CITY OF SCOTTSDALE PARKS DEPARTMENT IRRIGATION SYSTEM SUPERVISOR MIKE SNYDER (480-213-2189) TO ENSURE THAT ALL PLANTS IN THE PROJECT AREA RECEIVE ADEQUATE IRRIGATION DURING CONSTRUCTION.

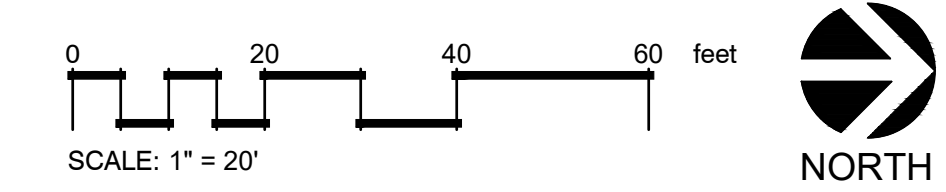
EMITTER SCHEDULE

COMMON NAME	FLOW PER OUTLET	MANIFOLD OUTLET	OPEN OUTLETS	GPH PER PLANT
TREES				
CASCALOTE	2.0 GPH	MULTI-OUTLET	6	12.0
BIRD OF PARADISE	2.0 GPH	MULTI-OUTLET	6	12.0
TEXAS OLIVE	2.0 GPH	MULTI-OUTLET	6	12.0
PISTACHE	2.0 GPH	MULTI-OUTLET	6	12.0
MOUNTAIN LAUREL	2.0 GPH	MULTI-OUTLET	6	12.0
SHRUBS				
MARICOPA RED	1.0 GPH	MULTI-OUTLET	2	2.0
RED LANTANA	1.0 GPH	MULTI-OUTLET	2	2.0
GOLD LANTANA	1.0 GPH	MULTI-OUTLET	2	2.0
LANGMAN'S SAGE	1.0 GPH	MULTI-OUTLET	2	2.0
BLUE RANGER	1.0 GPH	MULTI-OUTLET	2	2.0
ACCENTS				
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RED HESPERALOE	0.5 GPH	MULTI-OUTLET	1	0.5

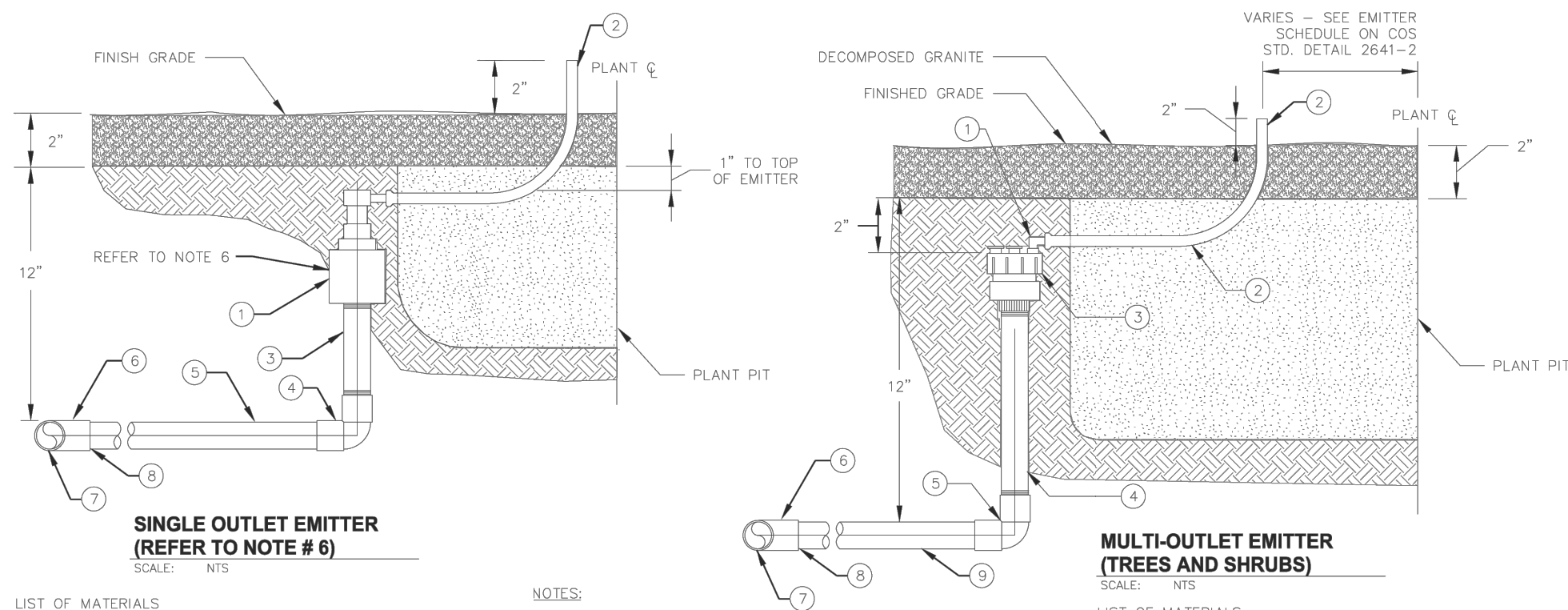
EMITTER NOTES

- REFER TO EMITTER DETAILS FOR EMITTER SPECIFICATIONS AND LAYOUT
- ADJUST IRRIGATION OPERATING TIMES TO ACCOMMODATE PLANT MATURITY, SOIL TYPE, PLANT EXPOSURE AND SEASONAL REQUIREMENTS.

IRRIGATION PLAN | AREA #2

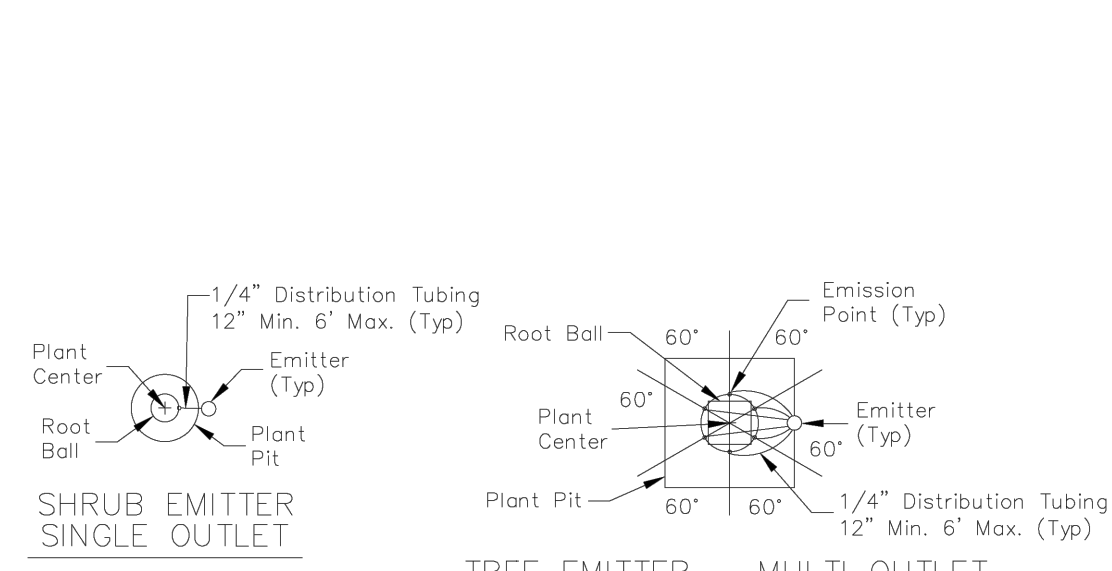


PLAN REVIEW NO.: 3765-22



- LIST OF MATERIALS**
- BOWSMITH SL 200 SERIES SINGLE PORT EMITTER OR APPROVED EQUAL. LOCATE ON UPHILL SIDE OF PLANT CENTERLINE
 - 1/4" POLYETHYLENE FLEX HOSE EMITTER TUBING (6" MAX.)
 - 1/2" x 6" SCH 80 TBE NIPPLE
 - 1/2" OR 3/4" PVC SCH 40 90° ELBOW - SXT REDUCING AS NECESSARY
 - 1/2" PVC CL 315 PIPE OR 3/4" CL 200
 - PVC SCH 40 FITTING
 - PVC CL 315 FOR 1/2" LATERALS, PVC CL 200 FOR LATERALS GREATER THAN 1/2"
 - INSTALL BUSHING AS REQUIRED
- NOTES:**
- PIPE CEMENT & PRIMER SHALL BE USED ON RIGID PIPE CONNECTIONS. TEFLON TAPE SHALL BE USED FOR ALL PIPE THREAD CONNECTIONS.
 - POLYETHYLENE EMITTER TUBING EMISSION POINTS SHALL BE EQUALLY SPACED AND LOCATED TO DIRECT WATER FLOW TO THE PERIMETER OF THE DRIP LINE.
 - NUMBER OF OPENINGS AND EMITTER TUBES REQUIRED IS BASED ON PLANT SIZE. (SEE COS STD. DETAIL 2641-2)
 - MAXIMUM EMITTER TUBING LENGTH = 6 FEET.
 - NO EMITTER LATERALS OR PIPING SHALL BE INSTALLED THROUGH OR BENEATH PLANT PITS. MINIMUM DISTANCE BETWEEN PLANT PIT PERIMETER AND PIPING SHALL BE 12".
 - MULTI OUTLET EMITTERS WILL USE A MIN. OF TWO OUTLETS. PLANTS THAT ARE NOT WITHIN A 6' RADIUS OF EACH OTHER SHALL BE IRRIGATED BY SINGLE OUTLET EMITTERS.
- LIST OF MATERIALS**
- SWIVEL OUTLET 90° ELBOW
 - 1/4" POLYETHYLENE FLEX HOSE EMITTER TUBING (6" MAX.)
 - BOWSMITH ML 200 SERIES MULTI-PORT EMITTER OR APPROVED EQUAL. LOCATE ON UPHILL SIDE OF PLANT CENTERLINE
 - 1/2" x 6" SCH 80 NIPPLE TBE
 - 1/2" OR 3/4" PVC SCH 40 90° ELBOW - SXT REDUCING AS NECESSARY
 - PVC SCH 40 FITTING
 - PVC CL 315 FOR 1/2" LATERALS, PVC CL 200 FOR LATERALS GREATER THAN 1/2"
 - INSTALL BUSHING AS REQUIRED
 - 3/4" PVC CL315 PIPE OR 3/4" CL 200

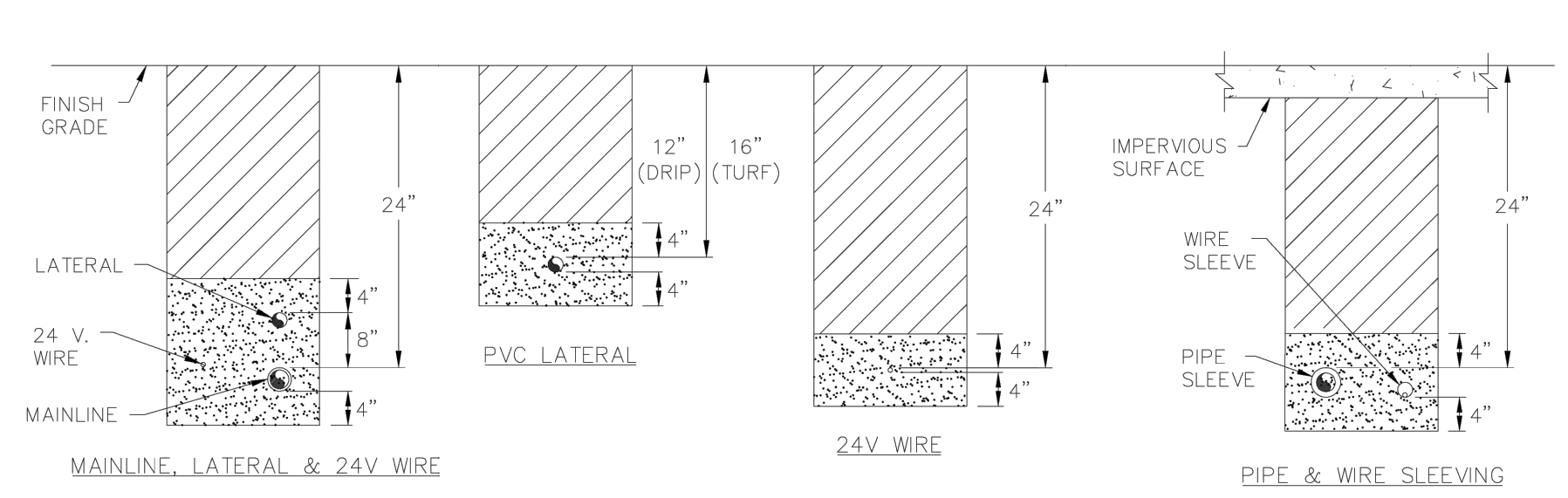
SINGLE & MULTI-OUTLET EMITTERS



EMITTER SCHEDULE

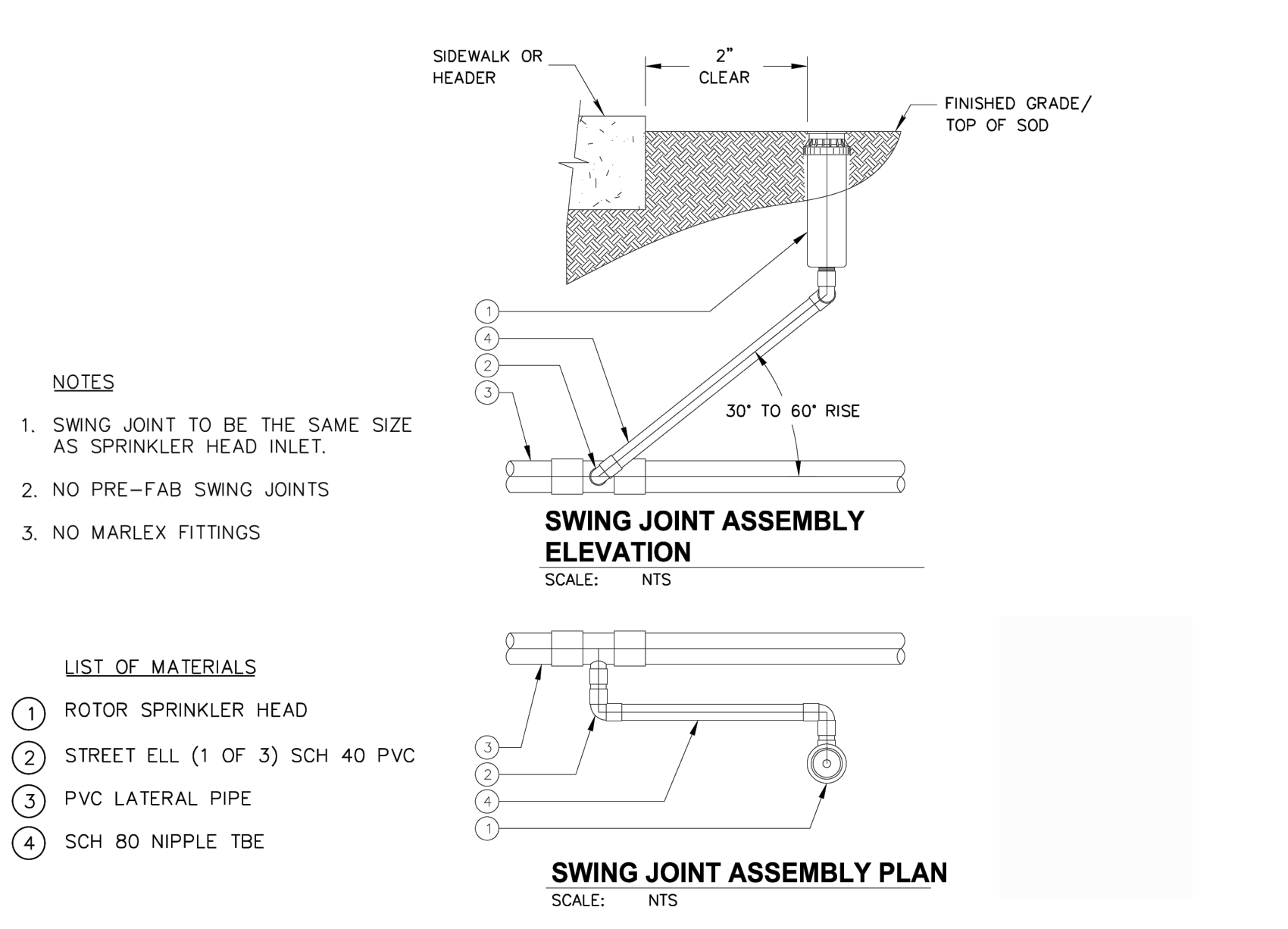
Tree Size	Number Of Multi-Outlet Emitters = Emitter GPH Total	Distance From Trunk
15 Gal.	1-2 GPH=12 GPH	3 @ 12"
24" Box	1-2 GPH=12 GPH	4 @ 18"
30" Box	1-2 GPH=12 GPH	6 @ 21"
36" Box	1-2 GPH=12 GPH	6 @ 24"

IRRIGATION EMITTER LAYOUT



- NOTES:**
- BEDDING SHALL BE PLACED AND LEVELED PRIOR TO INSTALLATION OF BURY ITEM.
 - BACKFILL SHALL BE PLACED IN MAXIMUM 6" LIFTS.
 - SLEEVE ALL PIPE AND WIRE SEPARATELY. SLEEVE 2 X DIA. OF PIPE (MIN 2"). ONE PIPE PER SLEEVE. SLEEVES TO BE PRIMED AND SOLVENT WELDED.
 - ALL PIPE TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS WITH PIPE LABELING FACING UP FOR INSPECTION PURPOSES. PROVIDE A MINIMUM OF 2" CLEARANCE TO SIDE OF TRENCH AND BETWEEN PIPES.
 - ALL 120 V. WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODE
 - TAPE AND BUNDLE IRRIGATION CONTROL WIRES EVERY 10'. PROVIDE LOOSE 20" LOOP AT ALL CHANGES OF DIRECTION OVER 30'.
 - ALL REMOTE CONTROL VALVE WIRING NOT INSTALLED WITH MAINLINE PIPE SHALL BE INSTALLED IN A MINIMUM 2" SCHEDULE 40 GREY ELECTRICAL CONDUIT OR AS APPROVED.
 - A DETECTABLE TAPE SHALL BE INSTALLED 12 INCHES ABOVE THE TOP OF PIPE ON ALL CONTINUOUSLY PRESSURIZED MAINLINES AND SHALL CONFORM TO COS SUPPLEMENT TO MAG SUBSECTION 797.7.
 - INSTALL ONE ADDITIONAL SLEEVE SIZED TO MATCH THE LARGEST REQUIRED SLEEVE WITH ENDS TAPED FOR FUTURE USE.
 - SLEEVES TO EXTEND A MINIMUM OF 12" PAST HARDSCAPE PLANTERS, CURBS, SIDEWALKS, ETC. SLEEVES TO BE STAGGERED/OFFSET SO THAT SLEEVE USE IS NOT OBSTRUCTED BY OTHER PIPES.
 - WHERE PROTECTED, SUPPLY PIPING IS INSTALLED WITHOUT CONTROL WIRING, A 14 GA. TRACKING WIRE SHALL BE INSTALLED.

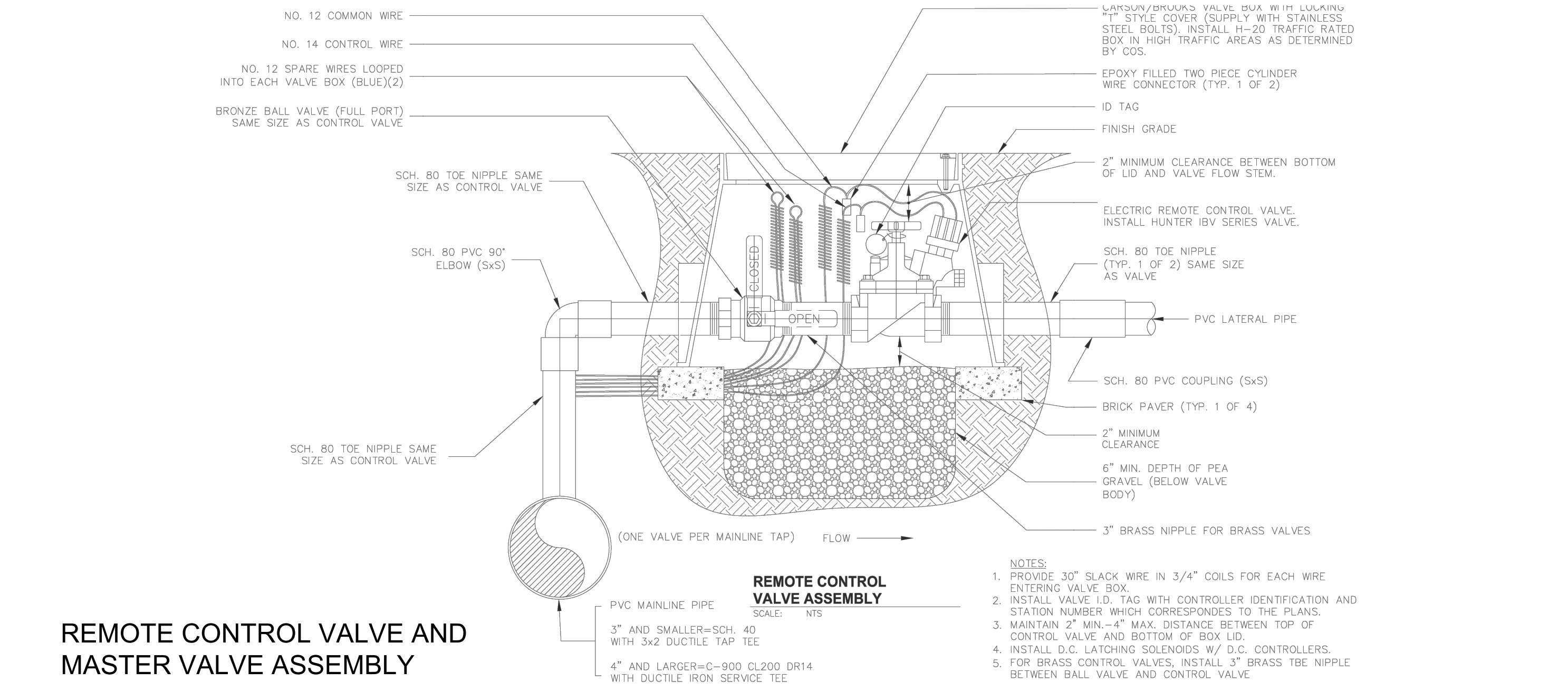
IRRIGATION TRENCHING



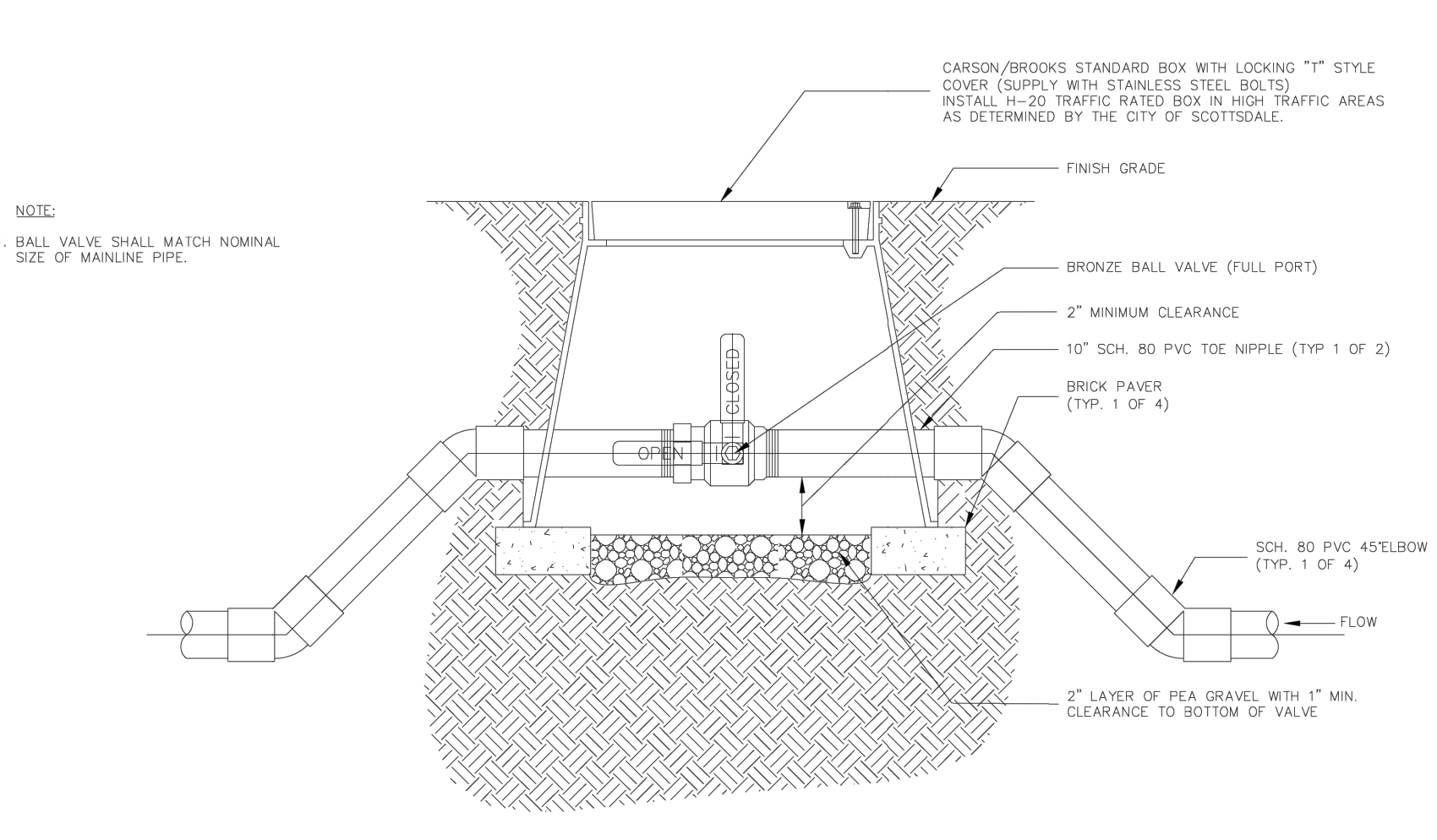
- NOTES:**
- SWING JOINT TO BE THE SAME SIZE AS SPRINKLER HEAD INLET.
 - NO PRE-FAB SWING JOINTS
 - NO MARLEX FITTINGS

- LIST OF MATERIALS**
- ROTOR SPRINKLER HEAD
 - STREET ELL (1 OF 3) SCH 40 PVC
 - PVC LATERAL PIPE
 - SCH 80 NIPPLE TBE

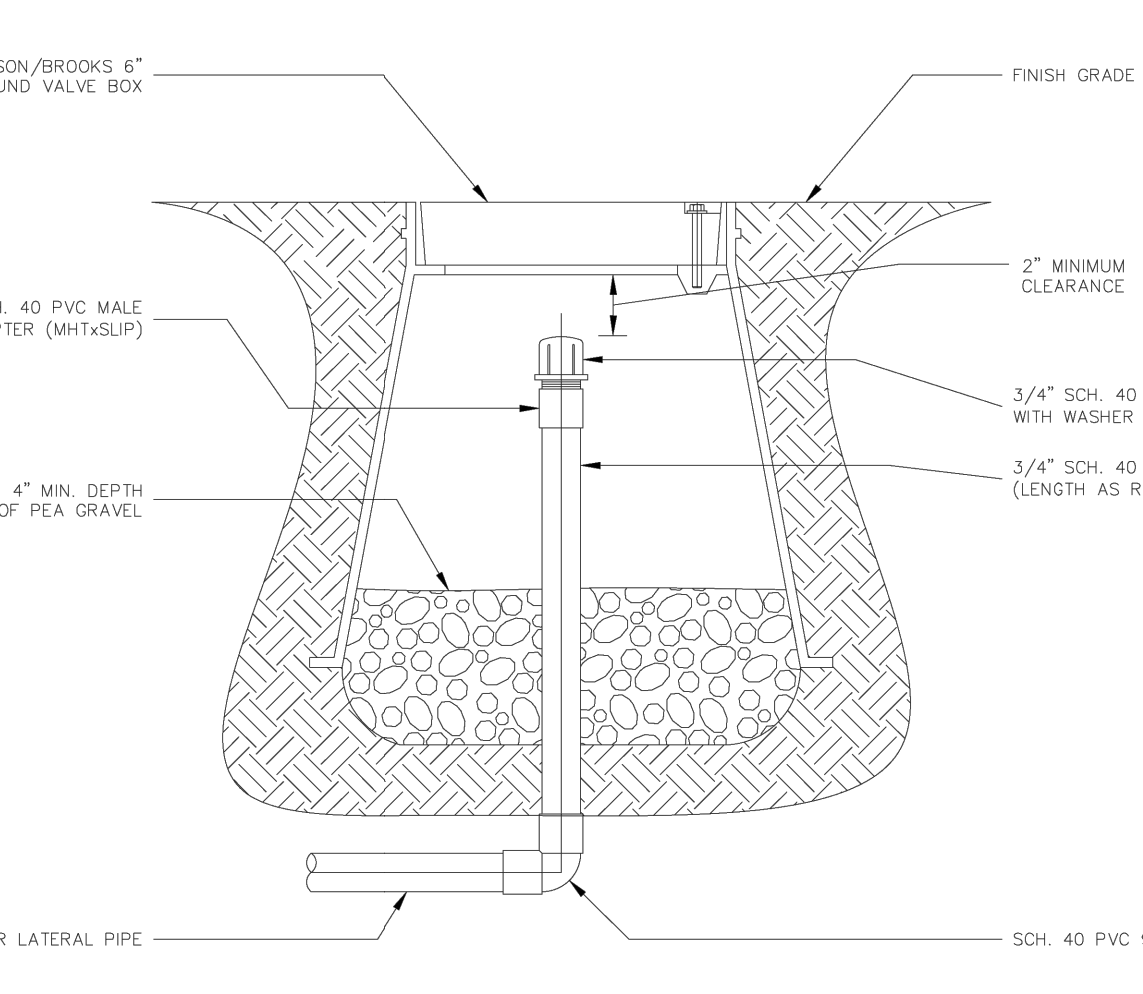
ROTOR SPRINKLER ASSEMBLY



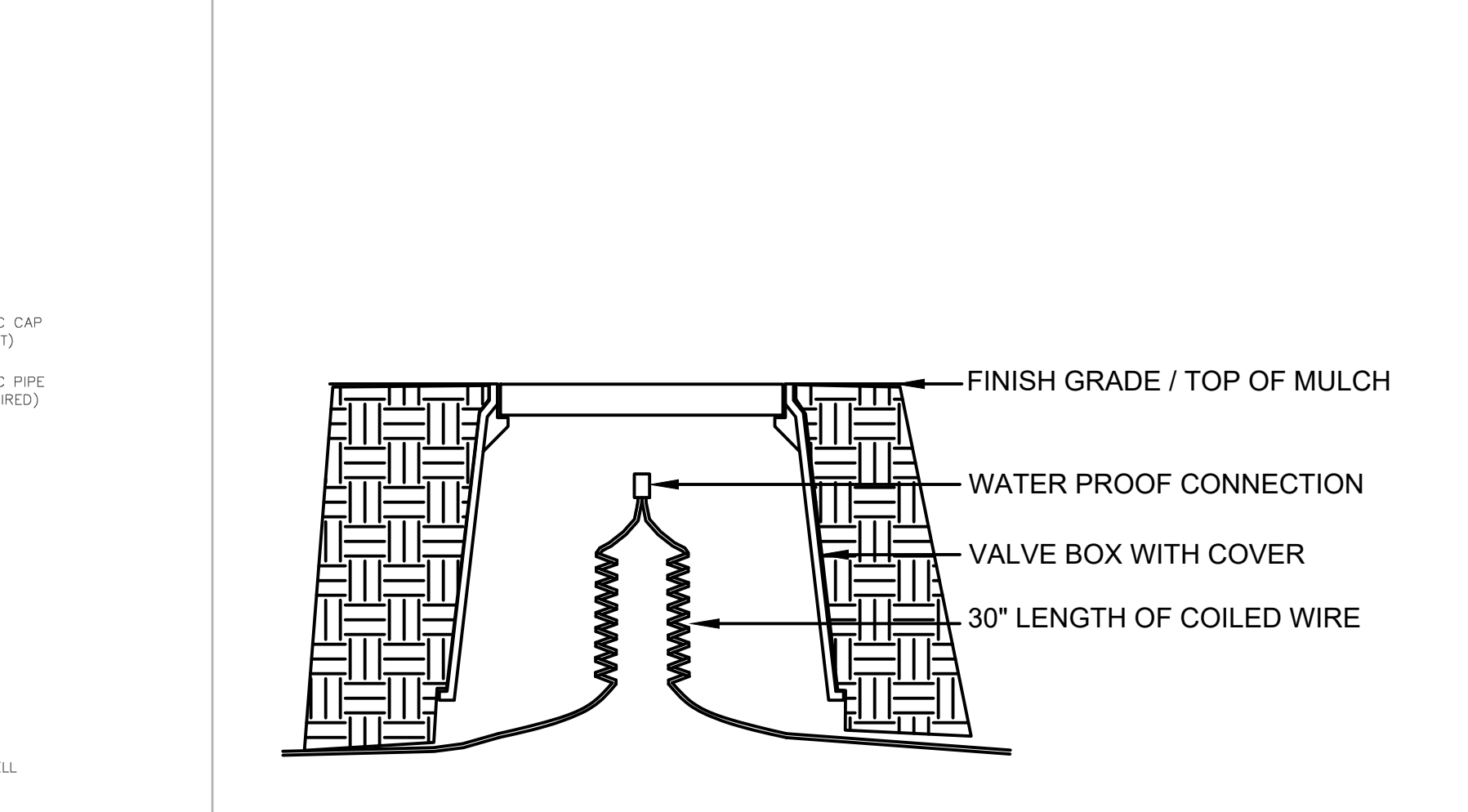
REMOTE CONTROL VALVE AND MASTER VALVE ASSEMBLY



1-1/2" & SMALLER MAINLINE BALL VALVE



EMITTER FLUSH CAP ASSEMBLY



TYPICAL WIRE SPLICE

Contact Arizona 811 at least two full working days before you begin excavation
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DATE	REVISION	BY
ENGINEER		
PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE		
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INDIAN BEND WASH PATH AT CHAPARRAL ROAD		
SCALE	DESIGNED	DATE
HORIZ. ---	MP/JM	08/24/23
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PROJECT NO.		SHT.
410-SF01A-56047		L7
44 OF 44		

PLAN REVIEW NO.: 3765-22