

BID NO. 21/22-003
PWP: WA-2022-033

CIVIL IMPROVEMENT PLANS
MARINA ROCK WALL
AND STAIRWAY REPAIR
SPARKS, NEVADA

OWNER/DEVELOPER

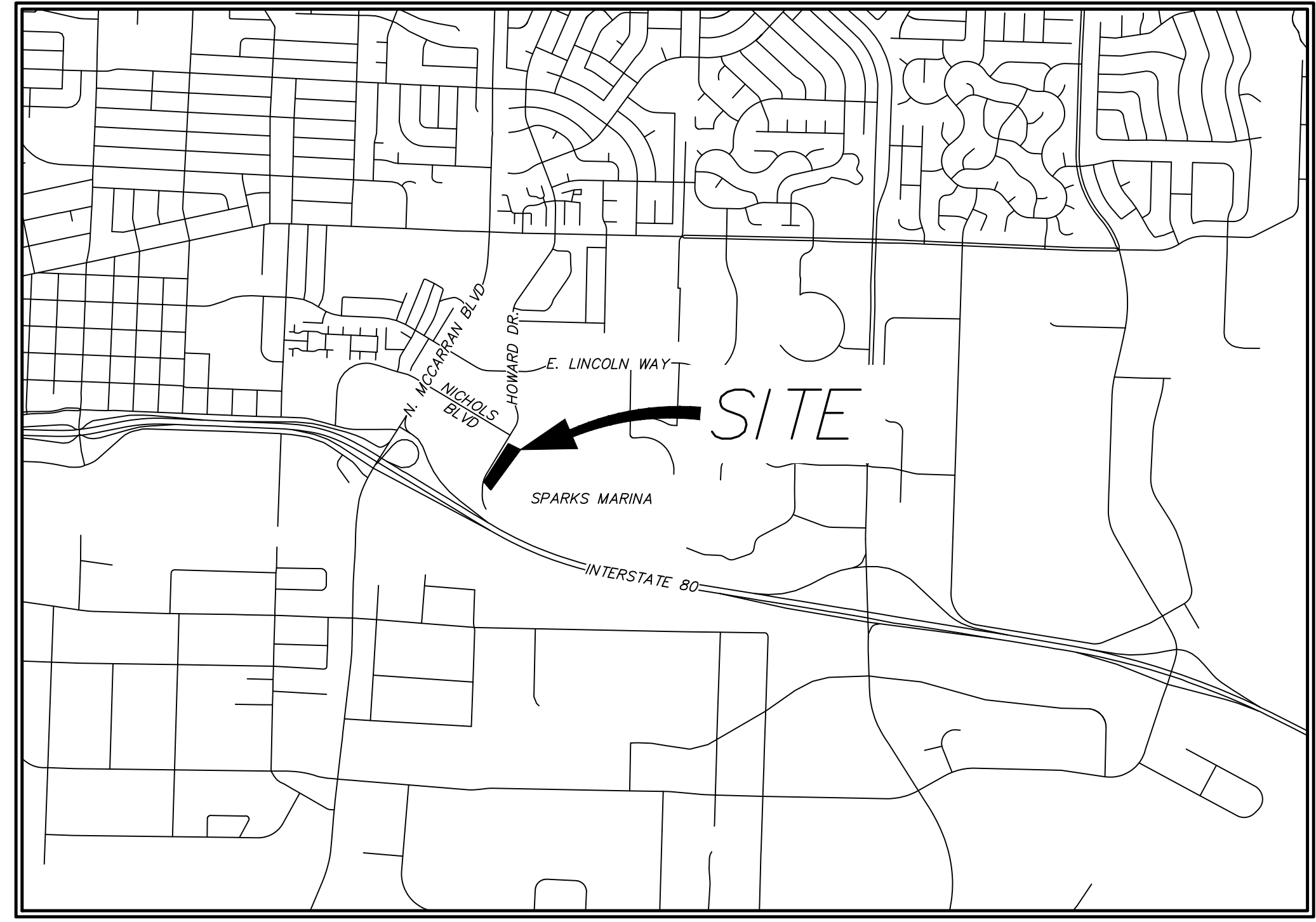
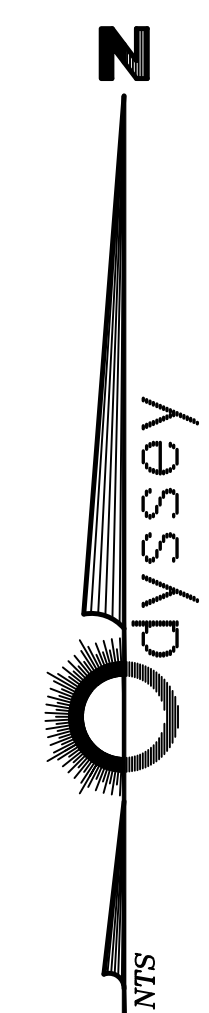
CITY OF SPARKS
431 PRATER WAY
SPARKS, NV 89431
775-353-5555

CIVIL ENGINEER

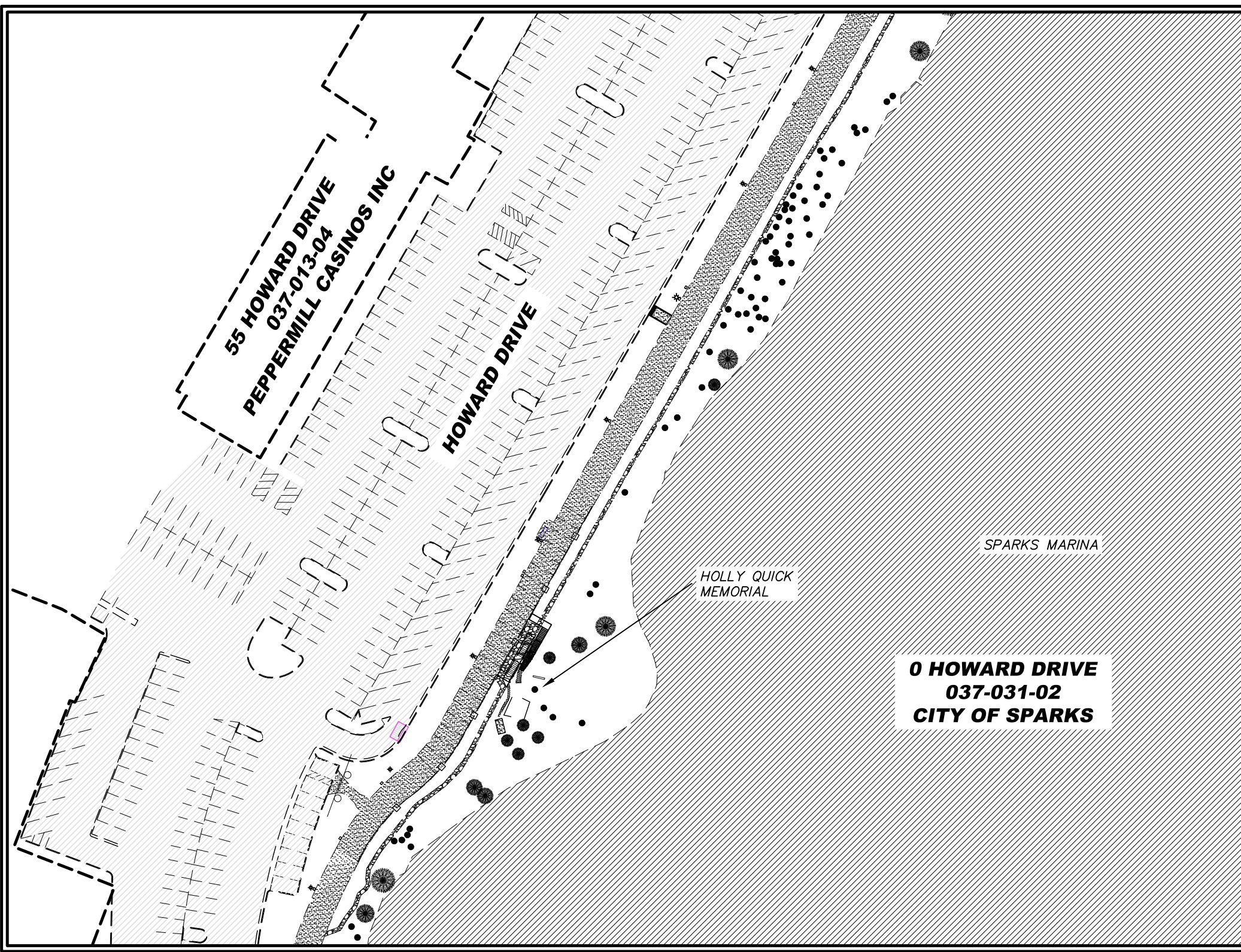
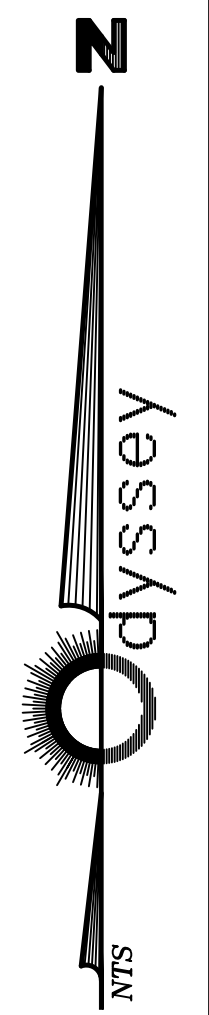
ODYSSEY ENGINEERING, INC.
895 ROBERTA LANE, SUITE #104
SPARKS, NV 89431
(775) 359-3303

LIST OF ABBREVIATIONS

A.C.	ASPHALTIC CONCRETE	L.F.	LINEAL FEET
B.C.	BEGIN CURVE	M.H.	MANHOLE
B.V.C.	BEGIN VERTICAL CURVE	P.	PAD ELEVATION
B.S.	BACK OF SIDEWALK	P.I.	POINT OF INTERSECTION
C.B.	CATCH BASIN	P.R.C.	POINT OF REVERSE CURVATURE
CL	CENTERLINE	P.O.T.	POINT OF TANGENT
CH	CHORD	P.V.C.	POLYVINYL CHLORIDE PIPE
C.M.P.	CORRUGATED METAL PIPE	R	RADIUS
CONC.	CONCRETE	(R)	RADIAL
CONST.	CONSTRUCT	R	RADIUS
C.P.	CONCRETE PIPE	REF.	REFERENCE
D.I.	DROP INLET	RET.	RETURN
DET.	DETAILS	R.C.P.	REINFORCED CONCRETE PIPE
ELEV.	ELEVATION	RT.	RIGHT
E.C.	END OF CURVE	R/W	RIGHT OF WAY
E.V.C.	END VERTICAL CURVE	S.S.	SANITARY SEWER
EXIST.	EXISTING	S.W.	SIDEWALK
E.G.	EXISTING GRADE	SHT.	SHEET
F.F.	FINISH FLOOR	STA.	STATION
F.F.C.	FRONT FACE CURB	S.D.	STORM DRAIN
F.G.	FINISH GRADE	T	TANGENT
F.H.	FIRE HYDRANT	T.C.	TOP OF CURB
F.L.	FLOW LINE	T.P.	TOP OF PAVEMENT
G	GAS	TYP.	TYPICAL
G.B.	GRADE BREAK	VERT.	VERTICAL
HORIZ.	HORIZONTAL	V.C.	VERTICAL CURVE
INT.	INTERSECTION	V.P.I.	VERTICAL POINT OF INTERSECTION
I.E.	INVERT ELEVATION	W	WATER
LT.	LEFT		
L	LENGTH		



VICINITY MAP



SITE LAYOUT

CIVIL SHEET INDEX

- C1.0 TITLE SHEET
- C2.0 DEMO PLAN
- C3.0 SITE/GRADING PLAN
- C4.0 ADA SITE/GRADING PLAN
- C5.0 EROSION CONTROL PLAN
- C6.0 DETOUR PLAN
- C7.0 DETAILS SHEET

STRUCTURAL SHEET INDEX

- S2.1 STAIR PLANS
- S5.1 STAIR DETAILS

NOTE:

THE DEVELOPER SHALL COMPLY WITH THE CONSTRUCTION HOURS INCLUDED IN THE CITY OF SPARKS AND WASHOE COUNTY DEVELOPMENT HANDBOOK. THE DEVELOPER SHALL INSTALL SIGNS AT ALL ACCESS POINTS OF THE PROJECT THAT CLEARLY INDICATE THE HOURS OF ACTIVITY ON-SITE PRIOR TO THE START OF ANY CONSTRUCTION-RELATED ACTIVITIES TO THE APPROVAL OF THE ADMINISTRATOR. THE DEVELOPER SHALL MAINTAIN THESE SIGNS IN GOOD REPAIR FOR THE DURATION OF THE CONSTRUCTION OF THE PROJECT. ONCE CONSTRUCTION IS FINISHED, THE DEVELOPER SHALL REMOVE THESE SIGNS.

SPECIFICATIONS

ALL CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS, AND THE LATEST STANDARD DETAILS, FOR PUBLIC WORKS CONSTRUCTION (2016 EDITION AND ANY APPURTENANT SUPPLEMENTS) SPONSORED AND DISTRIBUTED BY THE CITY OF SPARKS AND WASHOE COUNTY.

ENGINEER'S CERTIFICATE

THESE PLANS, SHEETS C1.0 OF 7, HAVE BEEN PREPARED IN ACCORDANCE WITH THE WASHOE COUNTY CODE. IN THE EVENT OF CONFLICT BETWEEN ANY PORTION OF THESE PLANS AND COUNTY CODE, COUNTY STANDARDS SHALL PREVAIL.

FRANK A. BIDART P.E. #10504

CITY OF SPARK APPROVAL:

JON R. ERICSON, P.E., P.T.O.E. CITY ENGINEER

DATE:

REV.	DATE	DESCRIPTION	BY	APP'D

DATE: SEPT. 2021	DATE: SEPT. 2021
DRAWN BY: ACAD. 2020	DESIGNED BY: NZV
CHECKED BY: FAB	

PRELIMINARY PLANS
MARINA ROCKWALL & STAIRWAY
TITLESHEET
SPARKS WASHOE NEVADA

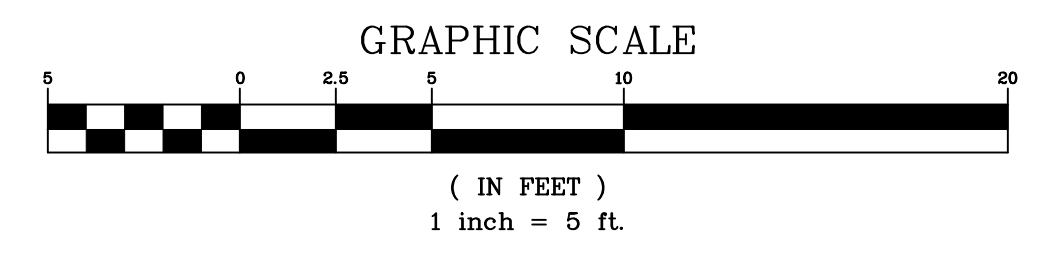
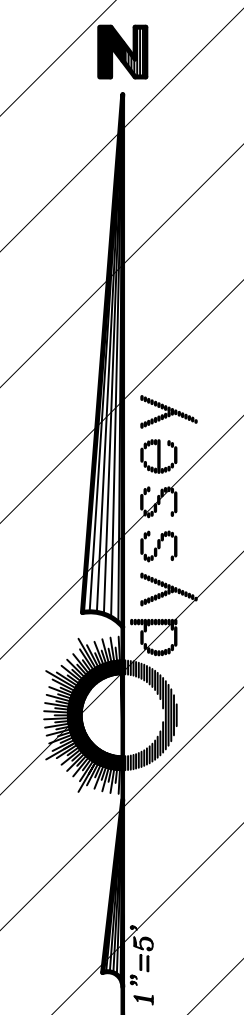
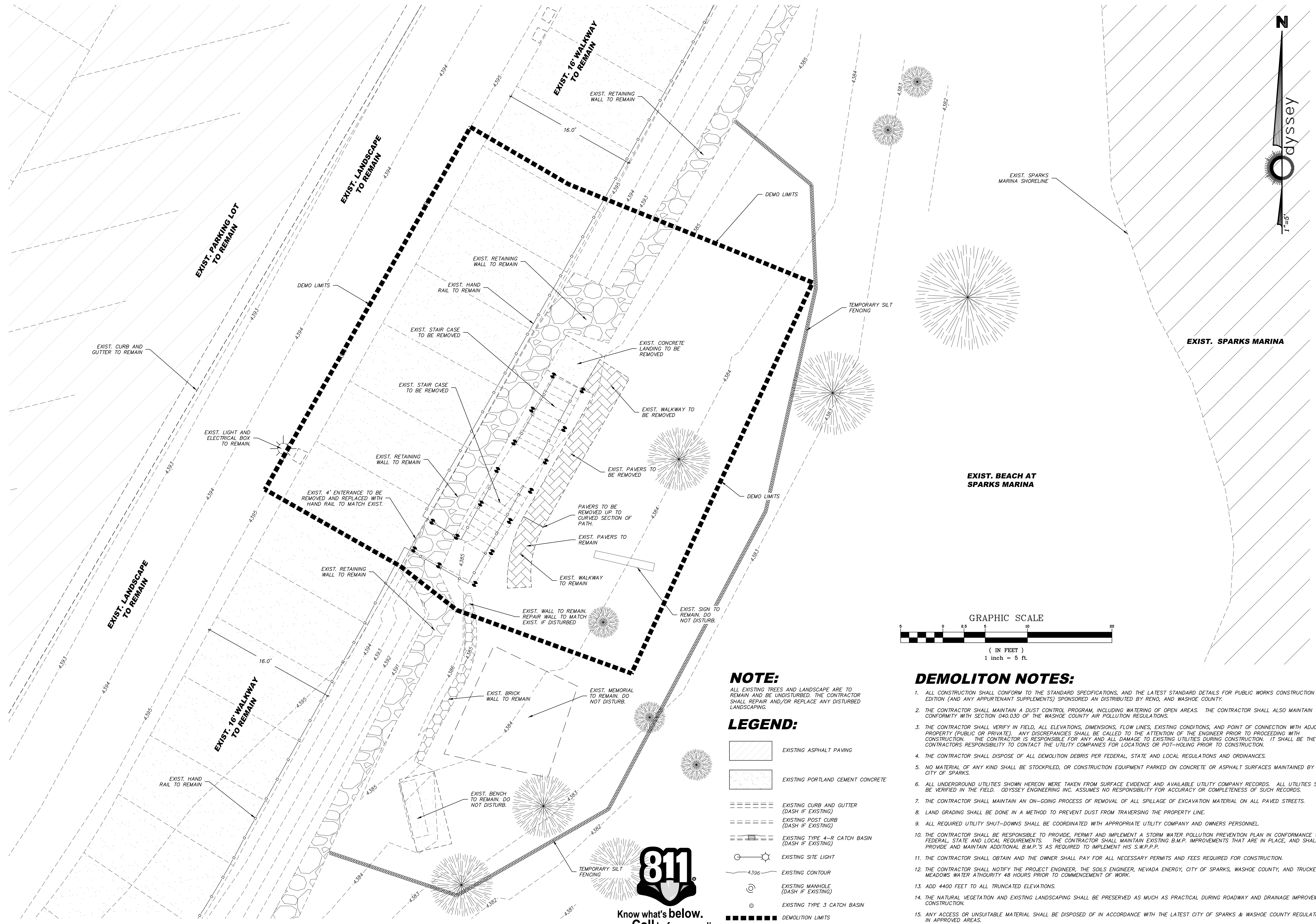
895 ROBERTA LANE, SUITE 104, SPARKS, NV 89431
(775) 359-3303 FAX (775) 359-3329
ODYSSEY@RENO.COM

odyssey ENGINEERING INCORPORATED



SCALE	
HORIZ.	N/A
VERT.	N/A
JOB NO.	

SHEET
C1.0
OF
9



NOTE:

ALL EXISTING TREES AND LANDSCAPE ARE TO REMAIN AND BE UNDISTURBED. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DISTURBED LANDSCAPING.

LEGEND:

- EXISTING ASPHALT PAVING
- EXISTING PORTLAND CEMENT CONCRETE
- EXISTING CURB AND GUTTER (DASH IF EXISTING)
- EXISTING POST CURB (DASH IF EXISTING)
- EXISTING TYPE 4-R CATCH BASIN (DASH IF EXISTING)
- EXISTING SITE LIGHT
- EXISTING CONTOUR
- EXISTING MANHOLE (DASH IF EXISTING)
- EXISTING TYPE 3 CATCH BASIN
- DEMOLITION LIMITS

DEMOLITON NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS, AND THE LATEST STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION 2012 EDITION (AND ANY APPURTENANT SUPPLEMENTS) SPONSORED BY RENO, AND WASHOE COUNTY.
2. THE CONTRACTOR SHALL MAINTAIN A DUST CONTROL PROGRAM, INCLUDING WATERING OF OPEN AREAS. THE CONTRACTOR SHALL ALSO MAINTAIN CONFORMITY WITH SECTION 040.030 OF THE WASHOE COUNTY AIR POLLUTION REGULATIONS.
3. THE CONTRACTOR SHALL VERIFY IN FIELD, ALL ELEVATIONS, DIMENSIONS, FLOW LINES, EXISTING CONDITIONS, AND POINT OF CONNECTION WITH ADJOINING PROPERTY (PUBLIC OR PRIVATE). ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES FOR LOCATIONS OR POT-HOLING PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL DISPOSE OF ALL DEMOLITION DEBRIS PER FEDERAL, STATE AND LOCAL REGULATIONS AND ORDINANCES.
5. NO MATERIAL OF ANY KIND SHALL BE STOCKPILED, OR CONSTRUCTION EQUIPMENT PARKED ON CONCRETE OR ASPHALT SURFACES MAINTAINED BY THE CITY OF SPARKS.
6. ALL UNDERGROUND UTILITIES SHOWN HEREON WERE TAKEN FROM SURFACE EVIDENCE AND AVAILABLE UTILITY COMPANY RECORDS. ALL UTILITIES SHOULD BE VERIFIED IN THE FIELD. ODYSSEY ENGINEERING INC. ASSUMES NO RESPONSIBILITY FOR ACCURACY OR COMPLETENESS OF SUCH RECORDS.
7. THE CONTRACTOR SHALL MAINTAIN AN ON-GOING PROCESS OF REMOVAL OF ALL SPILLAGE OF EXCAVATION MATERIAL ON ALL PAVED STREETS.
8. LAND GRADING SHALL BE DONE IN A METHOD TO PREVENT DUST FROM TRAVERSING THE PROPERTY LINE.
9. ALL REQUIRED UTILITY SHUT-DOWNS SHALL BE COORDINATED WITH APPROPRIATE UTILITY COMPANY AND OWNERS PERSONNEL.
10. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE, PERMIT AND IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN IN CONFORMANCE WITH FEDERAL, STATE AND LOCAL REQUIREMENTS. THE CONTRACTOR SHALL MAINTAIN EXISTING B.M.P. IMPROVEMENTS THAT ARE IN PLACE, AND SHALL PROVIDE AND MAINTAIN ADDITIONAL B.M.P.'S AS REQUIRED TO IMPLEMENT HIS S.W.P.P.P.
11. THE CONTRACTOR SHALL OBTAIN AND THE OWNER SHALL PAY FOR ALL NECESSARY PERMITS AND FEES REQUIRED FOR CONSTRUCTION.
12. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE SOILS ENGINEER, NEVADA ENERGY, CITY OF SPARKS, WASHOE COUNTY, AND TRUCKEE MEADOWS WATER AT FOURTYEIGHT HOURS PRIOR TO COMMENCEMENT OF WORK.
13. ADD 4400 FEET TO ALL TRUNCATED ELEVATIONS.
14. THE NATURAL VEGETATION AND EXISTING LANDSCAPING SHALL BE PRESERVED AS MUCH AS PRACTICAL DURING ROADWAY AND DRAINAGE IMPROVEMENTS CONSTRUCTION.
15. ANY ACCESS OR UNSUITABLE MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH THE LATEST CITY OF SPARKS & WASHOE COUNTY REGULATIONS OR IN APPROVED AREAS.



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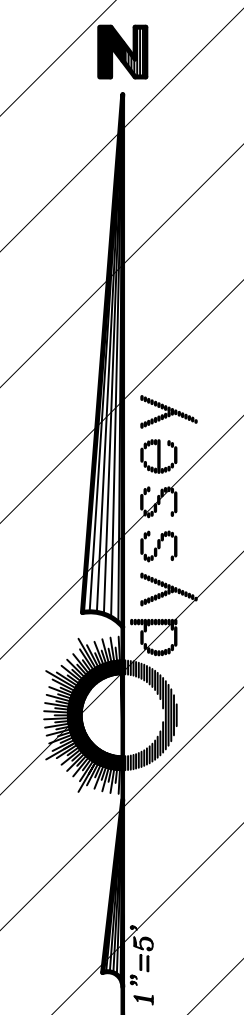
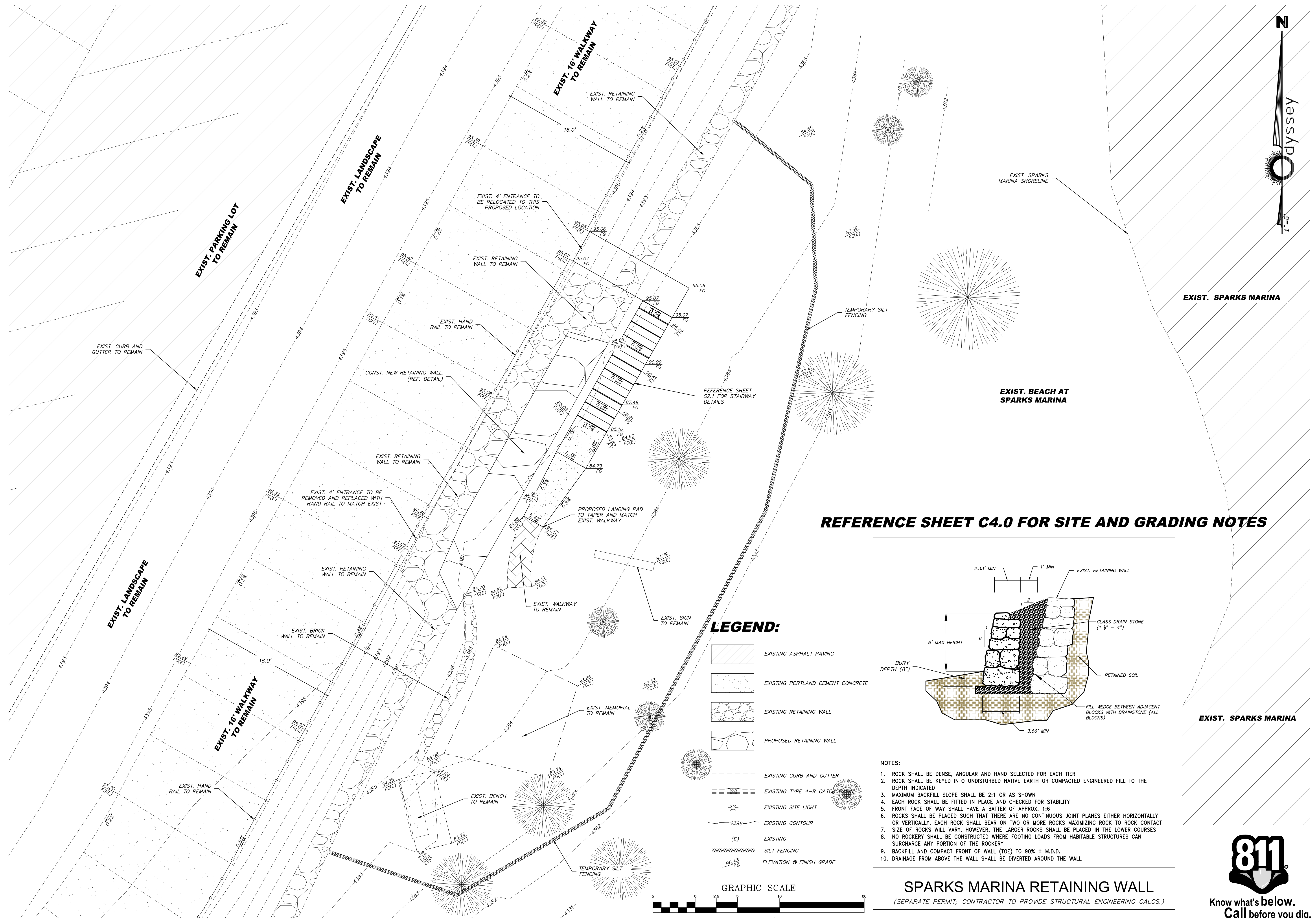
PRELIMINARY PLANS
MARINA ROCKWALL & STAIRWAY
DEMO PLAN
 SPARKS WASHOE NEVADA

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Odyssey ENGINEERING INCORPORATED

FRANK A. BIDART
 CIVIL
 No. 10504
 Exp. 12-31-22

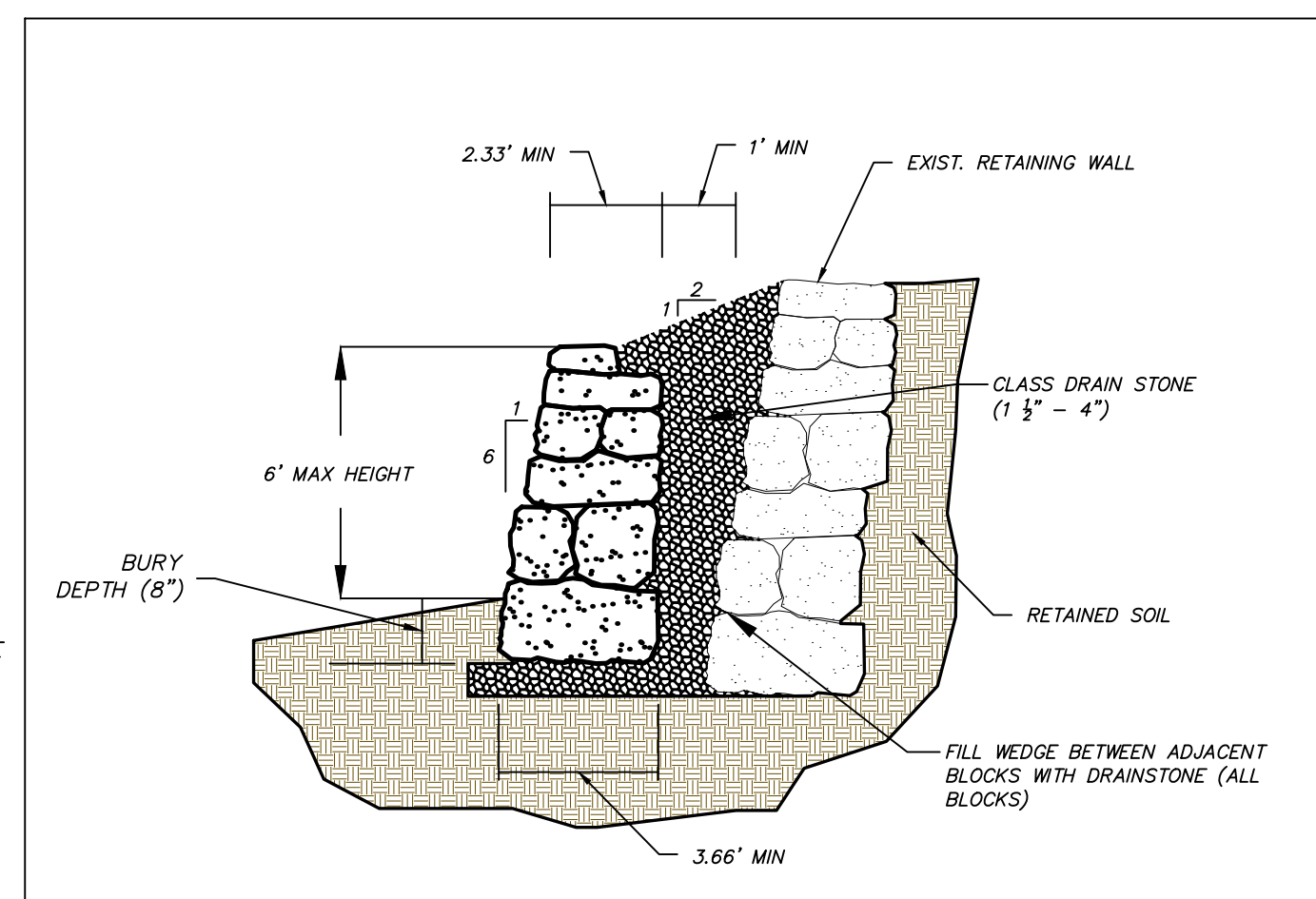
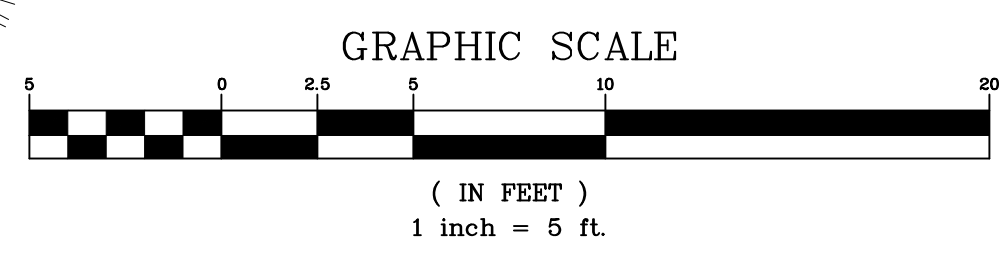
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 HORIZ. 1"=5'
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REFERENCE SHEET C4.0 FOR SITE AND GRADING NOTES

LEGEND:

- EXISTING ASPHALT PAVING
- EXISTING PORTLAND CEMENT CONCRETE
- EXISTING RETAINING WALL
- PROPOSED RETAINING WALL
- EXISTING CURB AND GUTTER
- EXISTING TYPE 4-R CATCH BASIN
- EXISTING SITE LIGHT
- EXISTING CONTOUR
- EXISTING
- SILT FENCING
- ELEVATION @ FINISH GRADE



- NOTES:
1. ROCK SHALL BE DENSE, ANGULAR AND HAND SELECTED FOR EACH TIER
 2. ROCK SHALL BE KEED INTO UNDISTURBED NATIVE EARTH OR COMPACTED ENGINEERED FILL TO THE DEPTH INDICATED
 3. MAXIMUM BACKFILL SLOPE SHALL BE 2:1 OR AS SHOWN
 4. EACH ROCK SHALL BE FITTED IN PLACE AND CHECKED FOR STABILITY
 5. FRONT FACE OF WALL SHALL HAVE A BATTER OF APPROX. 1:6
 6. ROCKS SHALL BE PLACED SUCH THAT THERE ARE NO CONTINUOUS JOINT PLANES EITHER HORIZONTALLY OR VERTICALLY. EACH ROCK SHALL BEAR ON TWO OR MORE ROCKS MAXIMIZING ROCK TO ROCK CONTACT
 7. SIZE OF ROCKS WILL VARY, HOWEVER, THE LARGER ROCKS SHALL BE PLACED IN THE LOWER COURSES
 8. NO ROCKERY SHALL BE CONSTRUCTED WHERE FOOTING LOADS FROM HABITABLE STRUCTURES CAN SURCHARGE ANY PORTION OF THE ROCKERY
 9. BACKFILL AND COMPACT FRONT OF WALL (TOE) TO 90% ± M.D.D.
 10. DRAINAGE FROM ABOVE THE WALL SHALL BE DIVERTED AROUND THE WALL

SPARKS MARINA RETAINING WALL
(SEPARATE PERMIT; CONTRACTOR TO PROVIDE STRUCTURAL ENGINEERING CALC.S.)



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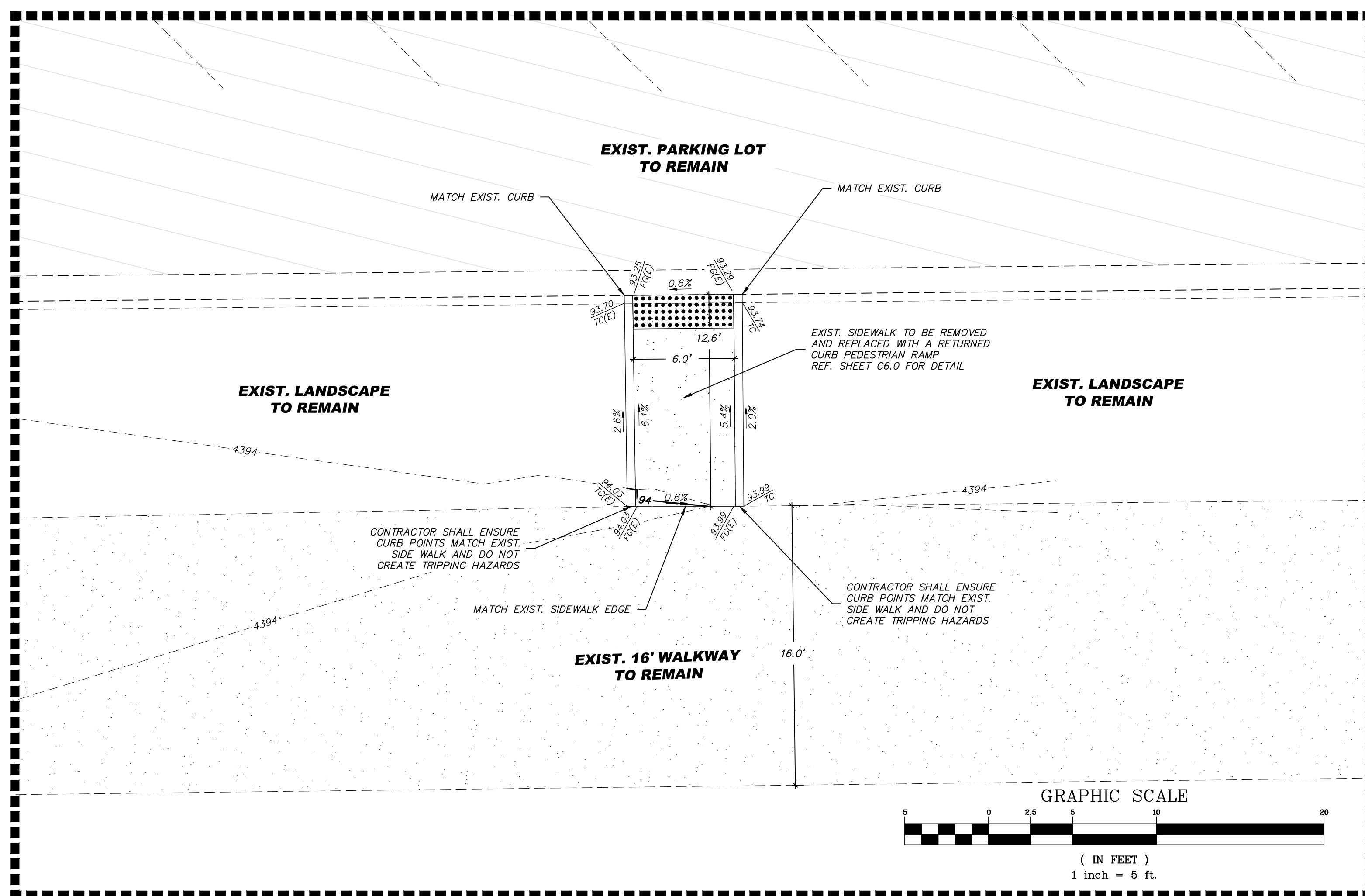
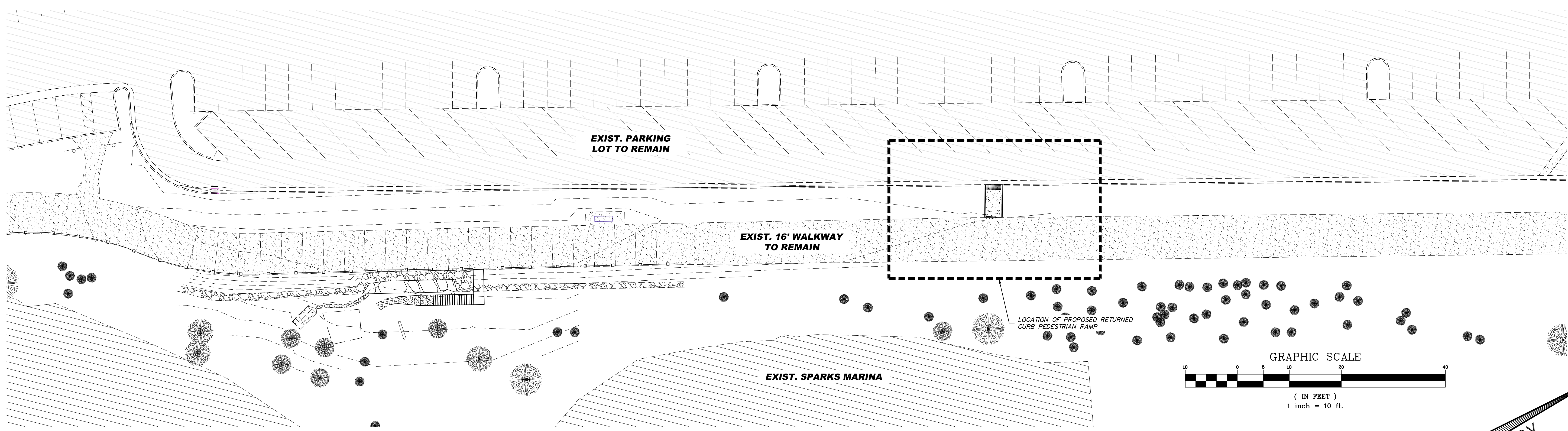
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SITE PLAN
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 ODYSSEY-RENO.COM

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SITE NOTES:

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1. THE CONTRACTOR SHALL VERIFY IN FIELD, ALL ELEVATIONS, DIMENSIONS, FLOW LINES, EXISTING CONDITIONS, AND POINT OF CONNECTION WITH ADJOINING PROPERTY (PUBLIC OR PRIVATE). ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES FOR LOCATIONS OR POT-HOLING PRIOR TO CONSTRUCTION.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES FOR LOCATIONS OR POT-HOLING PRIOR TO CONSTRUCTION.
 3. ALL REQUIRED UTILITY SHUT-DOWNS SHALL BE COORDINATED WITH APPROPRIATE UTILITY COMPANY AND CITY OF SPARKS PERSONNEL.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE, PERMIT AND IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN IN CONFORMANCE WITH FEDERAL, STATE AND LOCAL REQUIREMENTS. THE CONTRACTOR SHALL MAINTAIN EXISTING B.M.P. IMPROVEMENTS THAT ARE IN PLACE, AND SHALL PROVIDE AND MAINTAIN ADDITIONAL B.M.P.'S AS REQUIRED TO IMPLEMENT HIS S.W.P.P.
 5. THE CONTRACTOR SHALL OBTAIN AND THE OWNER SHALL PAY FOR ALL NECESSARY PERMITS AND FEES REQUIRED FOR CONSTRUCTION.
 6. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, NEVADA ENERGY, CITY OF SPARKS, AND THE TRUCKEE MEADOWS WATER AUTHORITY 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
 7. ALL DIMENSIONS ARE TO FRONT FACE OF CURB UNLESS NOTED OTHERWISE.
 8. ALL STRIPING AND SIGNAGE SHALL CONFORM TO THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.
 9. CONTRACTOR TO PROVIDE TRAFFIC CONES.

GRADING NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS, AND THE LATEST STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION 2012 ADDITION (AND ANY APPURTENANT SUPPLEMENTS) SPONSORED AND DISTRIBUTED BY SPARKS AND WASHOE COUNTY.
2. THE CONTRACTOR SHALL MAINTAIN A DUST CONTROL PROGRAM, INCLUDING WATERING OF OPEN AREAS. THE CONTRACTOR SHALL ALSO MAINTAIN CONFORMITY WITH SECTION 040.030 OF THE WASHOE COUNTY AIR POLLUTION REGULATIONS.
3. THE CONTRACTOR SHALL VERIFY IN FIELD, ALL ELEVATIONS, DIMENSIONS, FLOW LINES, EXISTING CONDITIONS, AND POINT OF CONNECTION WITH ADJOINING PROPERTY (PUBLIC OR PRIVATE). ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES FOR LOCATIONS OR POT-HOLING PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL DISPOSE OF ALL DEMOLITION DEBRIS PER FEDERAL, STATE AND LOCAL REGULATIONS AND ORDINANCES.
5. ALL UNDERGROUND UTILITIES SHOWN HEREON WERE TAKEN FROM SURFACE EVIDENCE AND AVAILABLE UTILITY COMPANY RECORDS. ALL UTILITIES SHOULD BE VERIFIED IN THE FIELD. ODYSSEY ENGINEERING INC. ASSUMES NO RESPONSIBILITY FOR ACCURACY OR COMPLETENESS OF SUCH RECORDS.
6. THE CONTRACTOR SHALL MAINTAIN AN ON-GOING PROCESS OF REMOVAL OF ALL SPILLAGE OF EXCAVATION MATERIAL ON ALL PAVED STREETS.
7. LAND GRADING SHALL BE DONE IN A METHOD TO PREVENT DUST FROM TRAVERSING THE PROPERTY LINE.
8. ALL REQUIRED UTILITY SHUT-DOWNS SHALL BE COORDINATED WITH APPROPRIATE UTILITY COMPANY AND OWNERS PERSONNEL.
9. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE, PERMIT AND IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN IN CONFORMANCE WITH FEDERAL, STATE AND LOCAL REQUIREMENTS. THE CONTRACTOR SHALL MAINTAIN EXISTING B.M.P. IMPROVEMENTS THAT ARE IN PLACE, AND SHALL PROVIDE AND MAINTAIN ADDITIONAL B.M.P.'S AS REQUIRED TO IMPLEMENT HIS S.W.P.P.
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12. ADD 4400 FEET TO ALL TRUNCATED ELEVATIONS.
13. THE NATURAL VEGETATION AND EXISTING LANDSCAPING SHALL BE PRESERVED AS MUCH AS PRACTICAL DURING SITE IMPROVEMENTS CONSTRUCTION.
14. SLOPES STEEPER THAN 3:1 SHALL BE MECHANICALLY STABILIZED WITH ROCK-RIP-RAP.
15. ANY ACCESS OR UNSUITABLE MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH THE LATEST CITY OF SPARKS REGULATIONS OR IN APPROVED AREAS.

NOTE: ELEVATION FLAGS ARE TO BACK FACE OF CURB

LEGEND:

- EXISTING ASPHALT PAVING
- EXISTING PORTLAND CEMENT CONCRETE
- EXISTING RETAINING WALL
- PROPOSED RETAINING WALL
- PORTLAND CEMENT CONCRETE AREA
- EXISTING CURB AND GUTTER
- EXISTING TYPE 4-R CATCH BASIN
- EXISTING SITE LIGHT
- EXISTING CONTOUR
- EXISTING
- ELEVATION @ FINISH GRADE
- ELEVATION @ TOP OF CURB
- SAWCUT LINE

TRUCKEE MEADOWS REGIONAL STORMWATER QUALITY NOTES:

1. THE OWNER, SITE DEVELOPER, CONTRACTOR AND OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATE IN, THE PUBLIC RIGHTS OF WAYS OF THE CITY OF SPARKS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CITY OF SPARKS AND THE TRUCKEE MEADOWS CONSTRUCTION SITE BEST MANAGEMENT PRACTICES HANDBOOK.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO STORMWATER GENERAL PERMIT NVR100000, SECTION 1.B.A.b. (2).
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPs WEEKLY, PRIOR TO A FORECASTED RAIN EVENT AND WITHIN 24 HOURS AFTER ANY ACTUAL RAIN EVENT. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY, SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS FROZEN GROUND CONDITIONS OR SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO STORMWATER GENERAL PERMIT NVR100000, SECTION 1.B.A.g.
5. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

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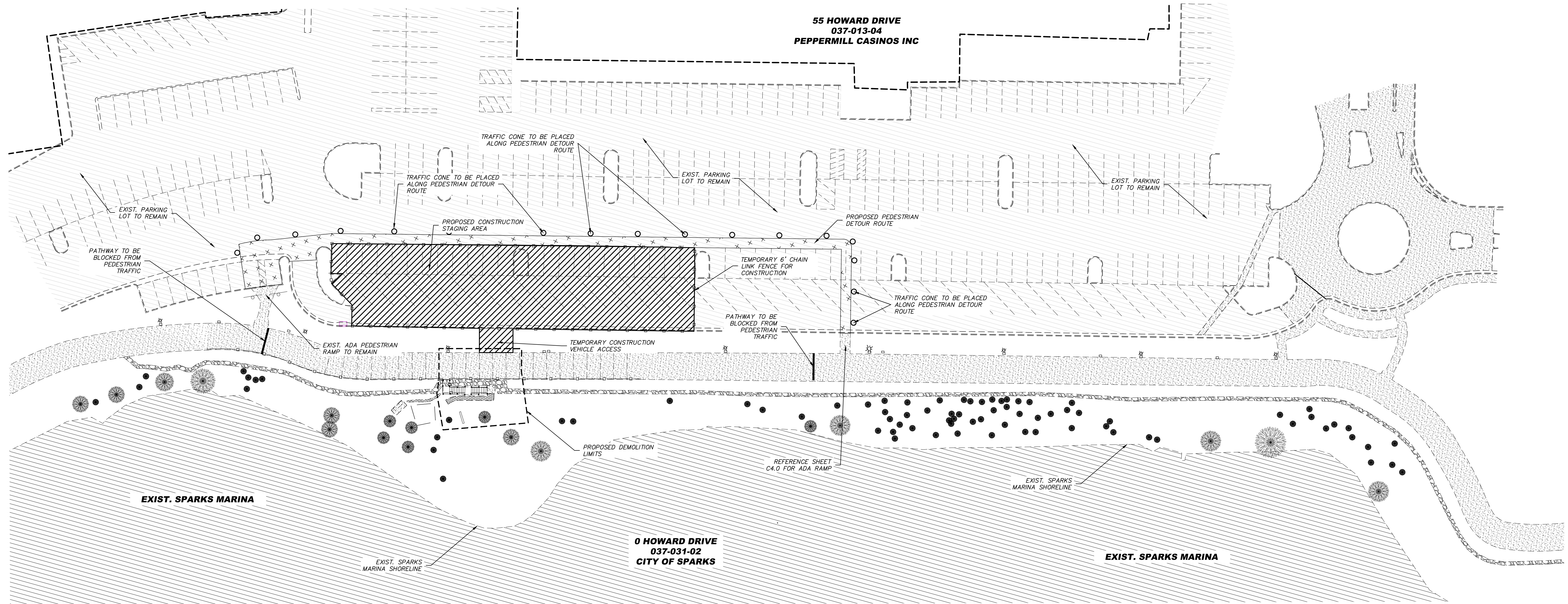
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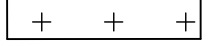
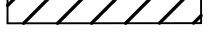




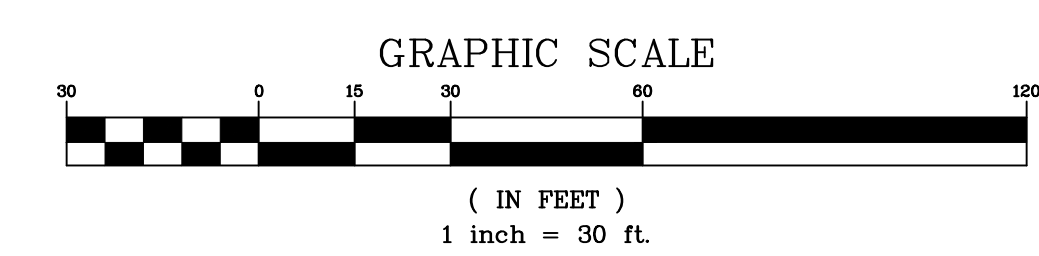
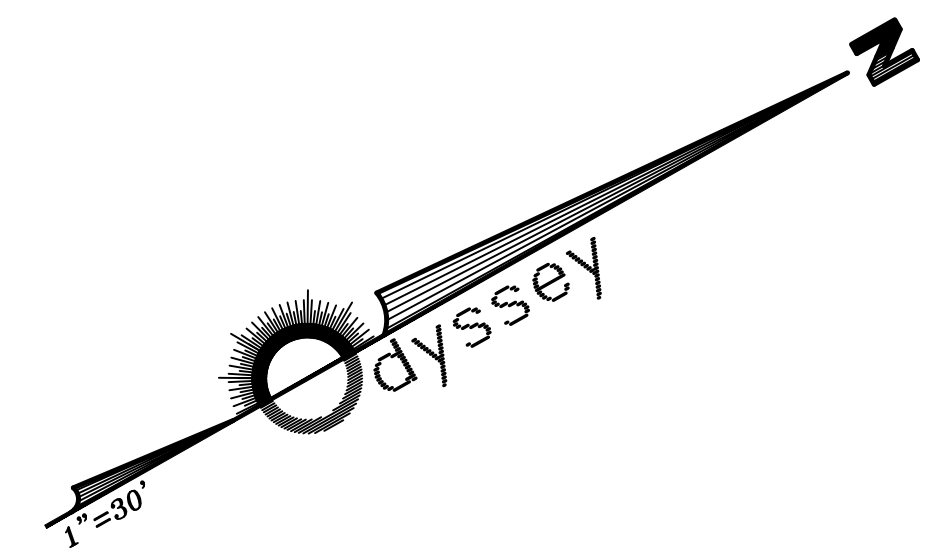


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 3. ALL REQUIRED UTILITY SHUT-DOWNS SHALL BE COORDINATED WITH APPROPRIATE UTILITY COMPANY AND LEGENDS PERSONNEL.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE, PERMIT AND IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN IN CONFORMANCE WITH FEDERAL, STATE AND LOCAL REQUIREMENTS. THE CONTRACTOR SHALL MAINTAIN EXISTING B.M.P.'S AS REQUIRED TO IMPLEMENT HIS S.W.P.P.P.
 5. THE CONTRACTOR SHALL OBTAIN AND THE OWNER SHALL PAY FOR ALL NECESSARY PERMITS AND FEES REQUIRED FOR CONSTRUCTION.
 6. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, NEVADA ENERGY, CITY OF SPARKS, AND THE TRUCKEE MEADOWS WATER AUTHORITY 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
 7. ALL DIMENSIONS ARE TO FRONT FACE OF CURB UNLESS NOTED OTHERWISE.
 8. ALL STRIPING AND SIGNAGE SHALL CONFORM TO THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.
 9. CONTRACTOR TO PROVIDE TRAFFIC CONES AND TEMPORARY FENCE

LEGEND:

-  EXISTING ASPHALT PAVING
-  EXISTING PORTLAND CEMENT CONCRETE
-  PROPOSED PEDESTRIAN DETOUR PATH
-  PROPOSED PEDESTRIAN DETOUR PATH
-  CURB AND GUTTER (DASHED IF EXISTING)
-  TYPE 4-R CATCH BASIN (DASHED IF EXISTING)



REV.	DATE	DESCRIPTION	BY	APP'D

DATE: SEPT. 2021
 DRAWN BY: ACAD_2020
 DESIGNED BY: NZV
 CHECKED BY: FAB

PRELIMINARY PLANS

MARINA ROCKWALL & STAIRWAY
 DETOUR PLAN

SPARKS WASHOE NEVADA

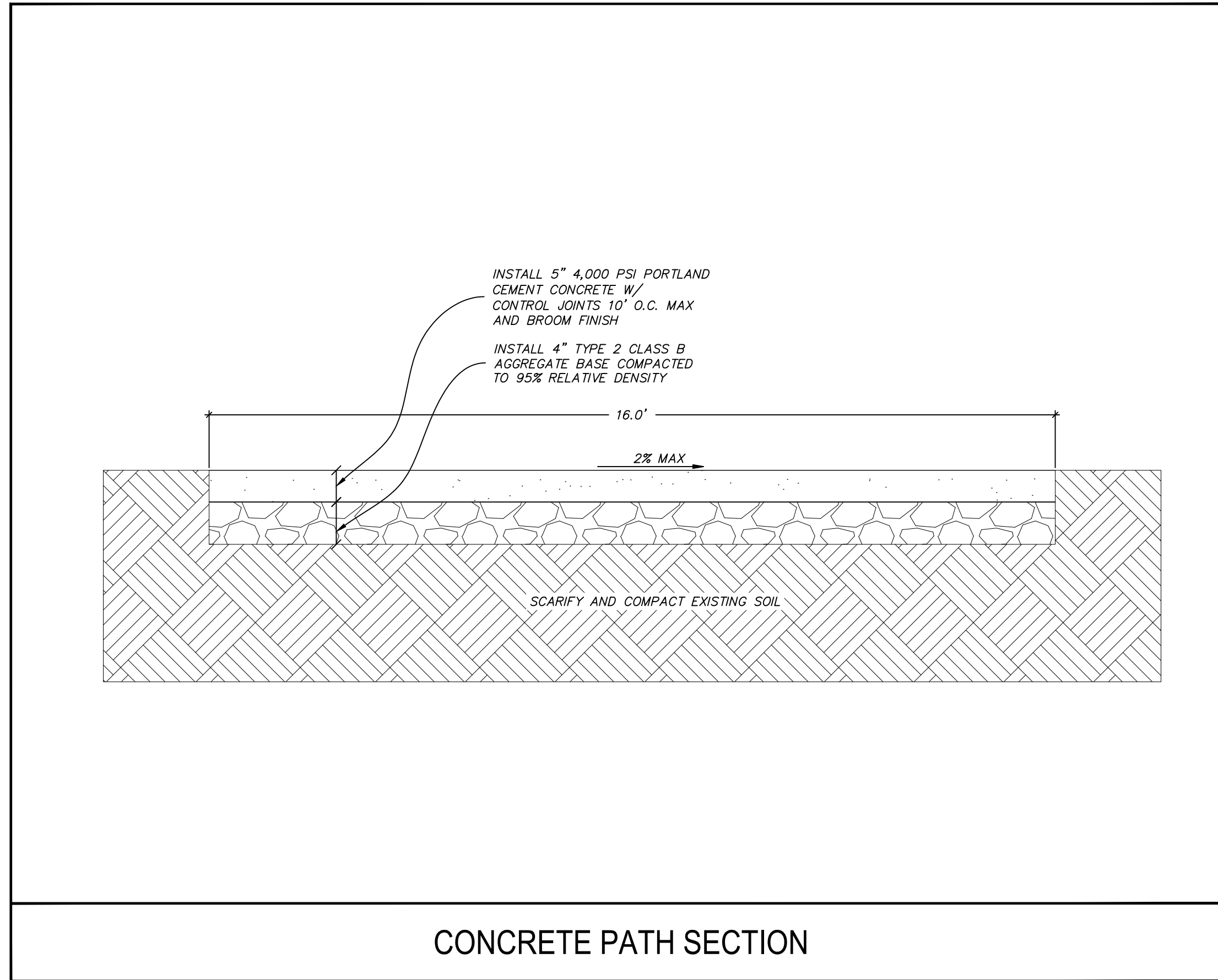
885 ROBERTA LANE, SUITE 104, SPARKS, NV 89431
 (775) 399-3063 FAX (775) 399-3064
 ODYSSEY-RENO.COM

odyssey
 ENGINEERING
 INCORPORATED

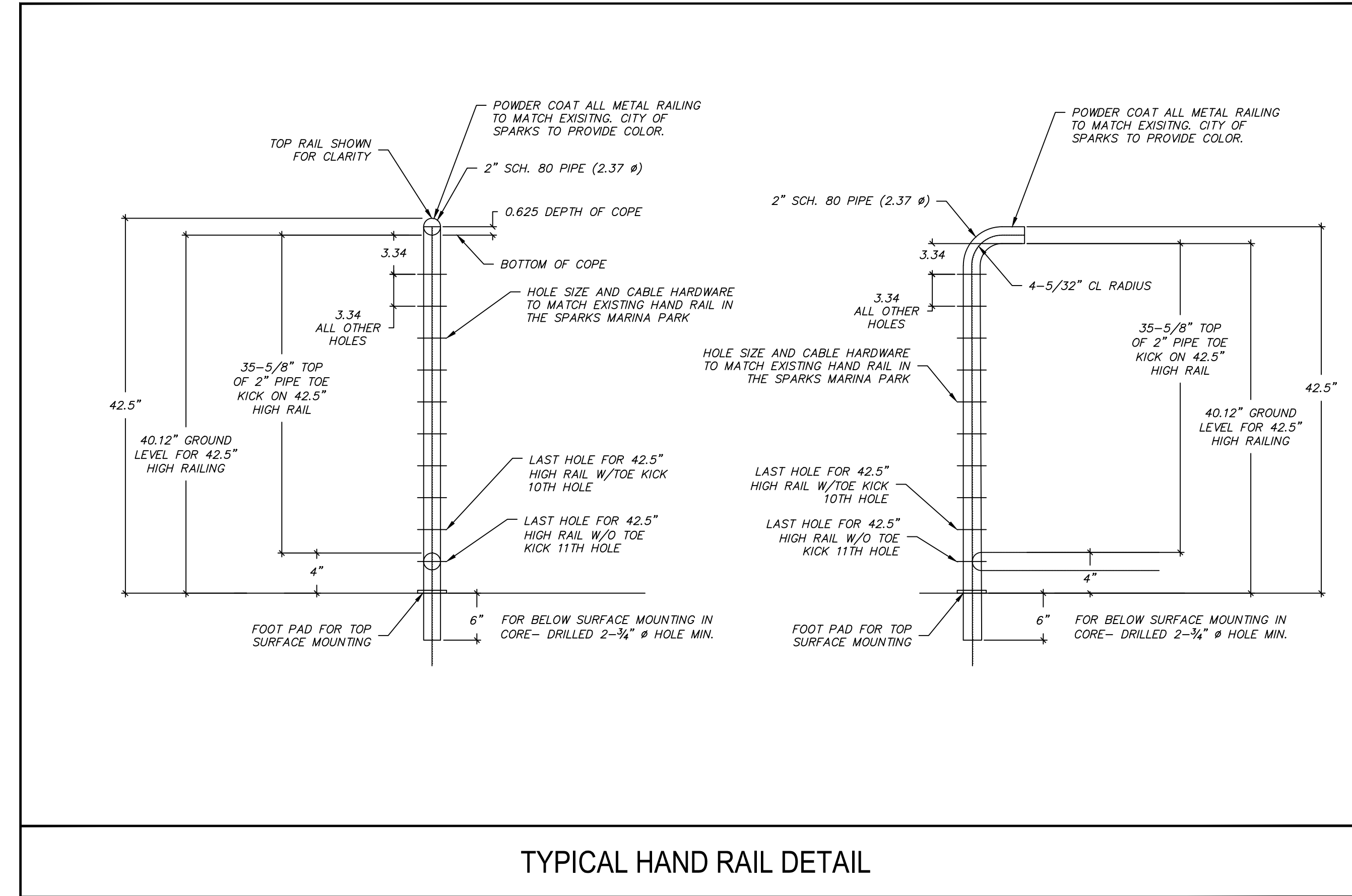


SCALE
 HORIZ. 1"=40'
 VERT. 1"=?'
 JOB NO.

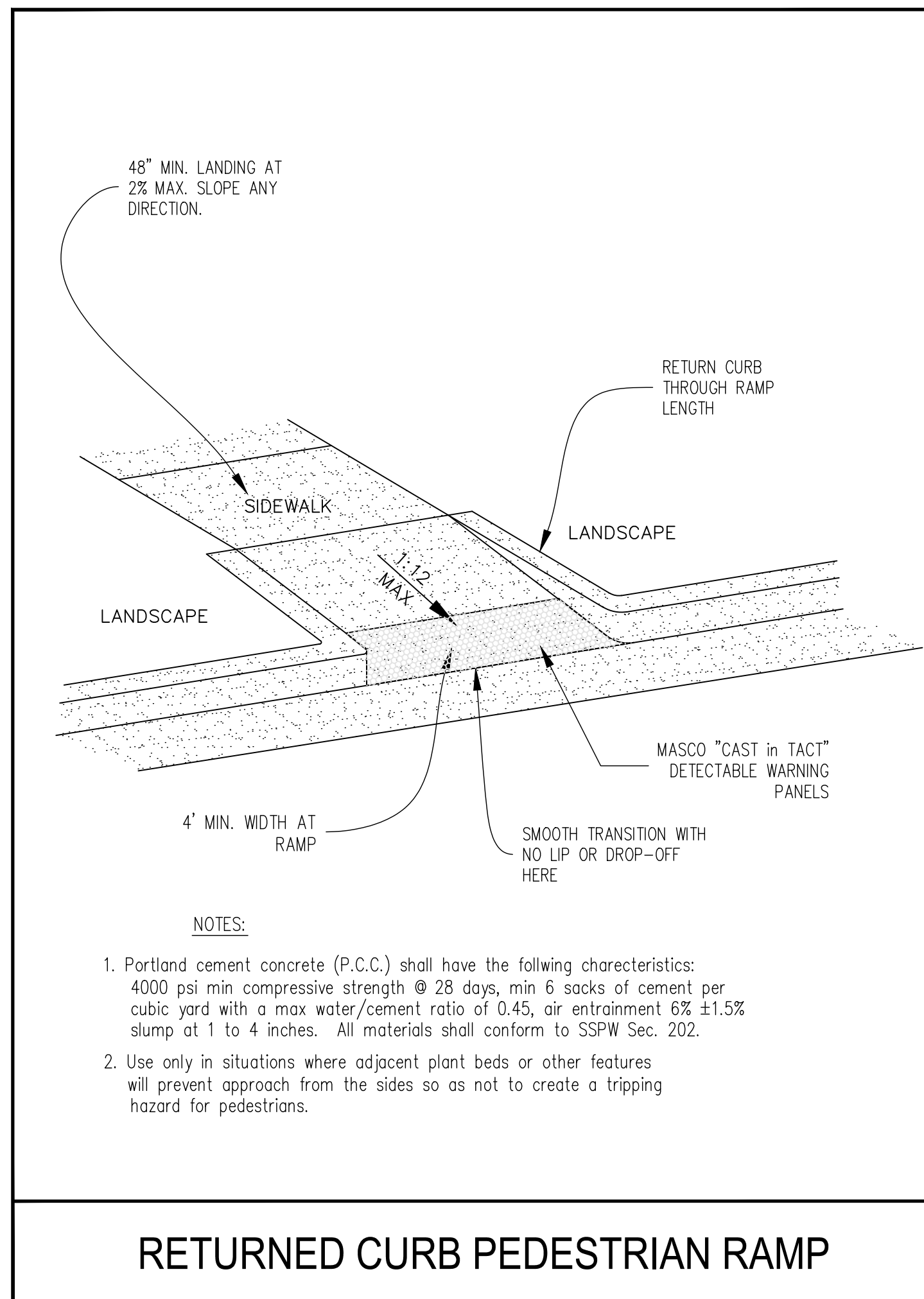
SHEET
 C6.0
 OF
 9



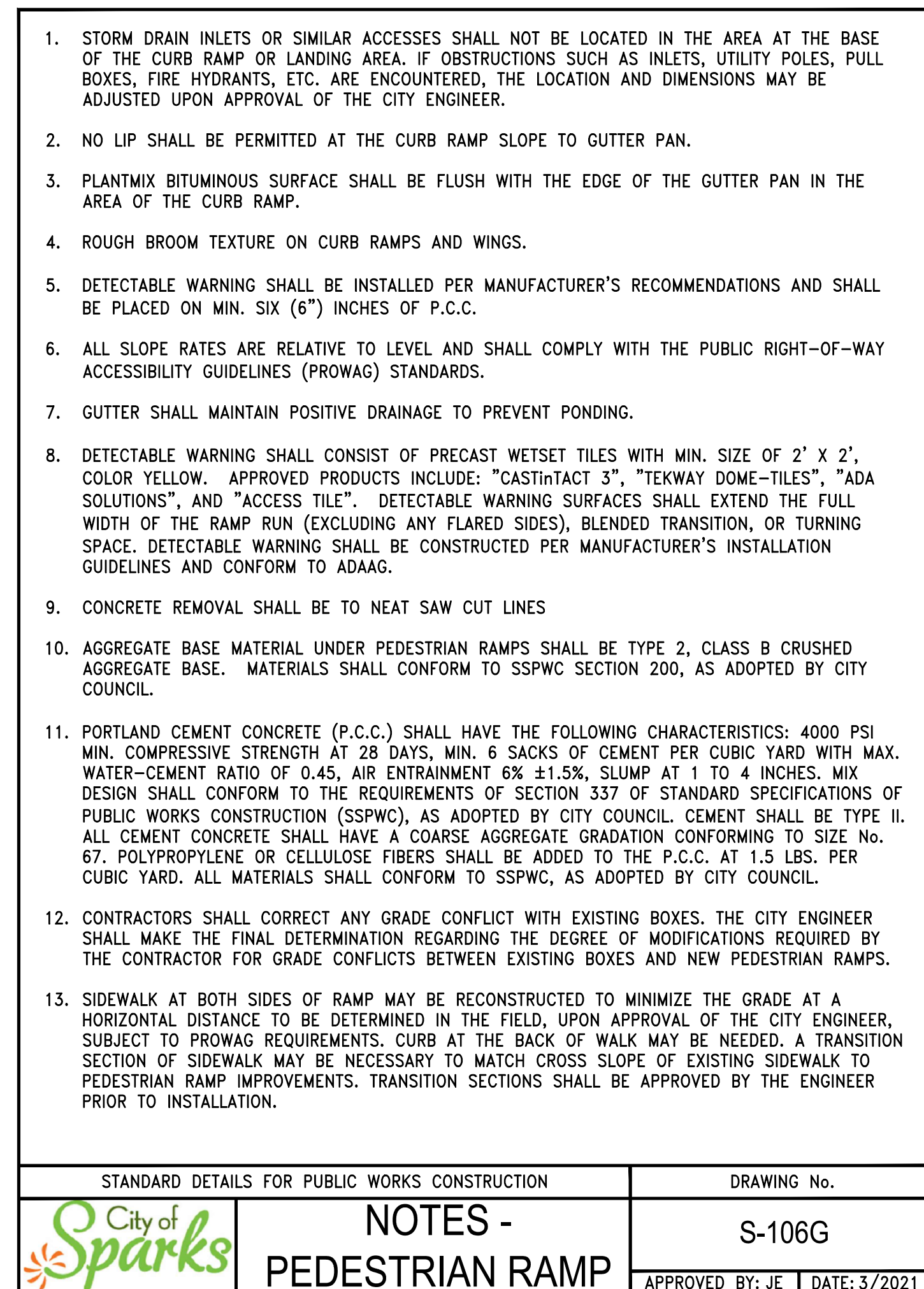
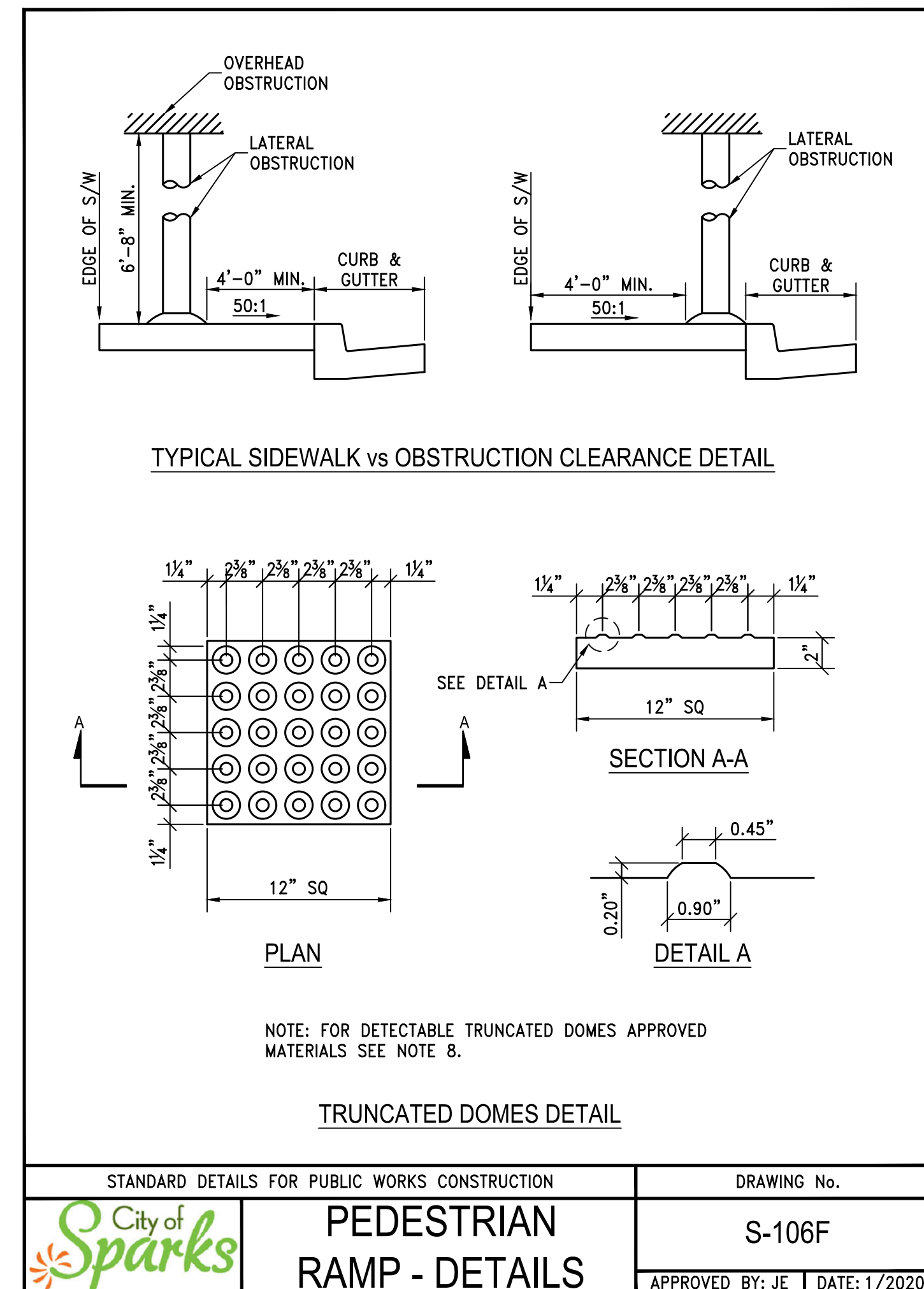
CONCRETE PATH SECTION



TYPICAL HAND RAIL DETAIL



RETURNED CURB PEDESTRIAN RAMP



PRELIMINARY PLANS

DATE: SEPT. 2021
DRAWN BY: ACAD_2020
DESIGNED BY: NZV
CHECKED BY: FAB

DATE: BY: APP'D

DESCRIPTION

REV. DATE

MARINA ROCKWALL & STAIRWAY
DETAILS SHEET

SPARKS WASHOE NEVADA

885 ROBERTA LANE, SUITE 104, SPARKS, NV 89431
(775) 399-3603 FAX: (775) 399-3604
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odyssey ENGINEERING INCORPORATED

PROFESSIONAL ENGINEER - STATE OF NEVADA
FRANK A. BIDART
Exp. 12-31-22
CIVIL
No. 10504

SCALE
HORIZ. N/A
VERT. N/A
JOB NO.
SHEET
C7.0
OF
9

DIVISION 1 - SECTION 01010 GENERAL CONDITIONS

- A. NOTES APPLY TO ALL WORK SHOWN ON THE STRUCTURAL DRAWINGS.
- B. COMPLY WITH THE 2018 INTERNATIONAL BUILDING CODE (IBC), CITY OF SPARKS ORDINANCES, AND CURRENT EDITIONS OF INDUSTRY STANDARDS REFERENCED.
- C. THIS STRUCTURE HAS BEEN DESIGNED FOR THE FOLLOWING LOADS IN ACCORDANCE WITH THE 2018 IBC AND WITH GENERALLY ACCEPTED DESIGN PRACTICES. SEE THIS SHEET FOR SPECIFIC DESIGN CRITERIA.
- D. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION AND FOR CONSTRUCTION METHODS. PROVIDE SHORING, TEMPORARY BRACING, ETC., AS NECESSARY TO PREVENT OVER-STRESSING DURING CONSTRUCTION, AND TO PROTECT WORKMEN AND PEDESTRIANS. CONTRACTOR SHALL COMPLY WITH ALL NEVADA AND OSHA SAFETY REGULATIONS AND SHALL RETAIN THEIR OWN ENGINEER WHERE REQUIRED.
- E. MATERIAL TESTING AND QUALITY CONTROL SHALL BE PROVIDED TO ENSURE WORK IS IN ACCORDANCE WITH THESE SPECIFICATIONS.

DIVISION 2 - SECTION 02200 EARTHWORK

- A. ALL FOOTINGS SHALL BE COMPACTED NATIVE MATERIALS.
- B. REMOVE ALL LOOSE SOIL FROM BASE OF FOOTING EXCAVATIONS. SCARIFY AND RECOMPACT.
- C. FILL AND BACKFILL SHALL BE REASONABLY WELL GRADED, FREE OF ORGANICS.
- D. EXCAVATE AS NECESSARY TO CONSTRUCT IMPROVEMENTS. ALLOW ADEQUATE SPACE TO CONSTRUCT AND REMOVE FORMS.
- E. BACKFILL SHALL BE REASONABLY WELL GRADED, AND FREE OF ORGANICS.
- F. MAINTAIN TEMPORARY DRAINAGE ROUTES TO KEEP SURFACE WATER OUT OF EXCAVATIONS. PUMP FOOTING EXCAVATIONS IF WATER ACCUMULATES.
- G. COMPLY WITH LOCAL ORDINANCES FOR DUST CONTROL.

DIVISION 3 - SECTION 03200 CONCRETE REINFORCEMENT

- A. REINFORCING SHALL BE ASTM A 615, GRADE 60. LAP SPLICES PER DRAWINGS AND TIGHTLY WIRE IN PLACE.
- B. SECURE REINFORCING IN PLACE WITH CHAIRS, TIES, OR DOBIES AS RECOMMENDED IN CRSI MANUAL OF STANDARD PRACTICES.

DIVISION 3 - SECTION 03300 CAST-IN-PLACE CONCRETE

- A. CONCRETE MIX DESIGN IN ACCORDANCE WITH ASTM C94 SHALL BE AS SHOWN ON DRAWINGS.
- B. CONCRETE SHALL BE PLACED AT THE MINIMUM PRACTICAL SLUMP NOT EXCEEDING THE SPECIFIED MAXIMUM DESIGN SLUMP. IF ADDITIONAL WORKABILITY AND SLUMP IS DESIRED, IT MAY BE OBTAINED WITH APPROVED ADMIXTURES WHICH DO NOT INCREASE WATER CONTENT OR SHRINKAGE OF SPECIFIED MIXES.
- C. CLEAN AND ROUGHEN CONSTRUCTION JOINTS AND WET FORMS AND SUB-GRADE PRIOR TO PLACING CONCRETE.
- D. PLACE CONCRETE USING METHODS WHICH AVOID SEGREGATION. MECHANICALLY VIBRATE ALL CONCRETE TO CONSOLIDATE IT IN FORMS.
- E. CONCRETE FINISHES:
 1. EXTERIOR SLABS, WALKS, ETC. - SCREED TO AN EVEN LEVEL PLANE. FLOAT AND STEEL TROWEL TO A SMOOTH DENSE, HARD FINISH. FOLLOWED WITH A MEDIUM BROOM FINISH PERPENDICULAR TO TRAFFIC.
 2. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4" OR TOOLED TO A 1/2" RADIUS.
- F. CONCRETE CURING:
 1. FRESHLY DEPOSITED CONCRETE SHALL BE PROTECTED FROM PREMATURE DRYING AND EXCESSIVE HOT OR COLD TEMPERATURES FOR A MINIMUM OF 5 DAYS.
 2. EXTERIOR CONCRETE - APPLY 1 COAT OF EUCLID "KUREZ-DR" CURING COMPOUND AS SOON AS POSSIBLE AFTER FINISHING.
 3. REAPPLY CURING COMPOUND TO SAWCUT JOINTS IMMEDIATELY AFTER CUTTING IF MEMBRANE IS APPLIED PRIOR TO CUTTING.
- G. WEATHER PROTECTION:
 1. IN HOT WEATHER, FOLLOW "RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING", ACI 305. WHEN COMBINED EFFECTS OF RELATIVE HUMIDITY, CONCRETE, TEMPERATURE AND WIND RESULT IN A SURFACE EVAPORATION RATE IN EXCESS OF 0.2 LB./SQ. FT./HR. PROVIDE WIND BREAKS, FOGGING, COOLING, EVAPORATION RETARDANT, ETC., AS NECESSARY TO PREVENT PLASTIC SHRINKAGE CRACKING OF CONCRETE SURFACES.
 2. IN COLD WEATHER, FOLLOW "RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING", ACI 306.
- H. CLEAN UP: LEAVE CONCRETE SURFACES BROOM CLEAN. REMOVE ALL DEBRIS FROM CONCRETE WORK FROM THE SITE.

DIVISION 3 - SECTION 03400 PRESTRESSED CONCRETE

- A. PRECAST STAIR SHALL BE CLOSED RISER STAIR STREDS.
- B. MATERIAL SHALL BE 5000 PSI CONCRETE WITH 4-5% AIR ENTRAINMENT.
- C. DESIGN LOADING FOR PRESTRESSED STAIR TRED SHALL BE NONCONCURRENT 100 PSF UNIFORM LOAD AND 300 LBS POINT LOAD TO CREATE WORST CASE LOADING EFFECTS.
- D. GEOMETRY AS SHOWN ON DRAWINGS.
- E. LIMITATIONS ON WEIGHT OF TREAD TO BE CONSISTENT WITH THE FRAMING DESIGN.
- F. ANY CUT ENDS OF REINFORCING TO BE EPOXY COATED.
- G. FINISHING:
 - a. ANTI-SLIP GROOVES OR EXPOSED AGGREGATE IN NOSING.
 - b. LIGHT BROOM ON WALKING SURFACE.
 - c. EXPOSED SURFACES FLAT AND FREE FROM SUDDEN TRANSITIONS.
- H. CALCULATIONS STAMPED BY A NEVADA ENGINEER TO BE SUBMITTED PRIOR TO FABRICATION.
- I. MANUFACTURER SHALL BE DIAMOND PRECAST STAIRS, EMPIRE PRECAST, OR EQUAL.

DIVISION 5 - SECTION 05100 STRUCTURAL STEEL

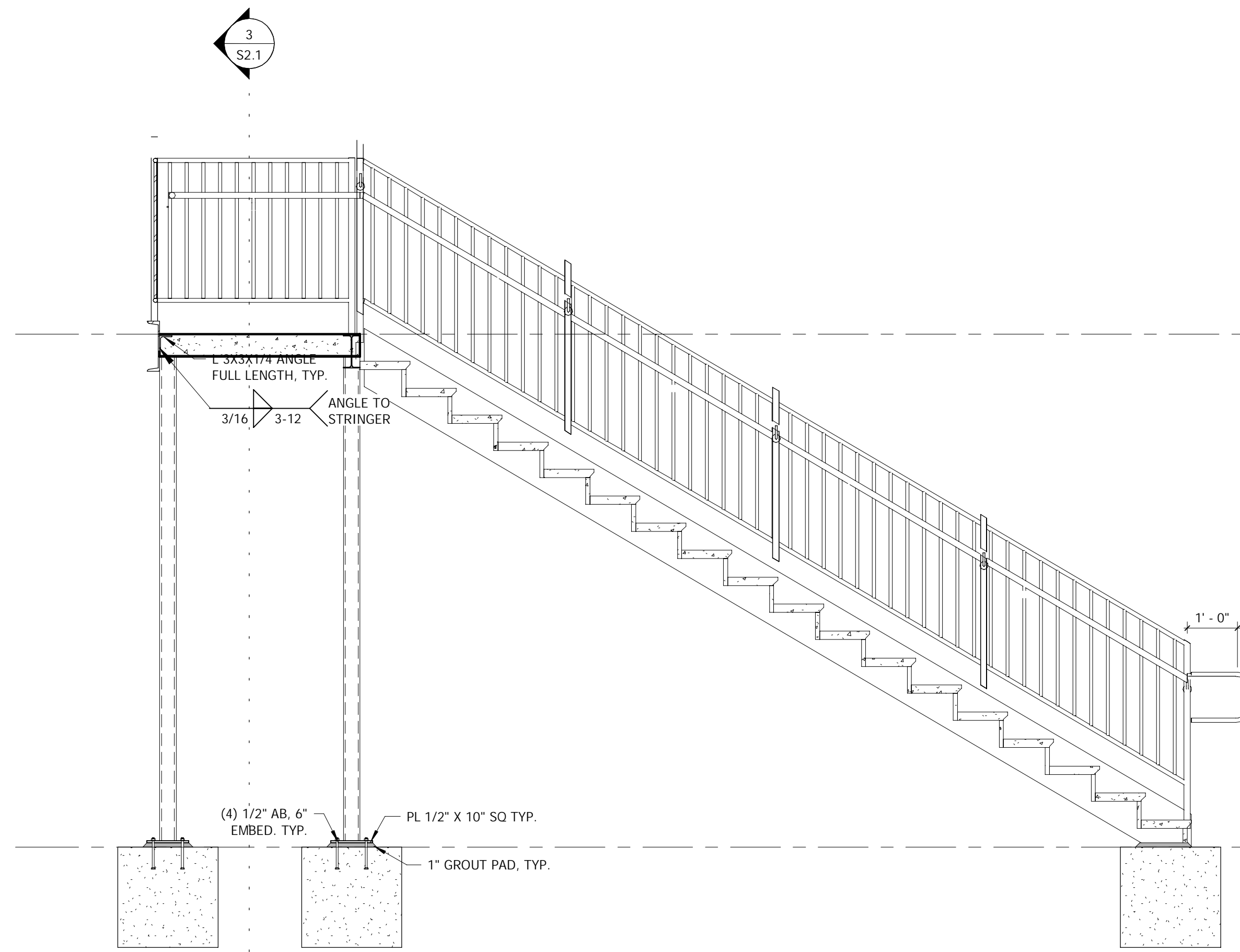
- A. ALL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE LATEST EDITION OF THE AISC SPECIFICATIONS.
- B. ALL WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY'S SPECIFICATIONS FOR THE MATERIAL BEING WELDED. WELDING SHALL BE PERFORMED ONLY BY A CERTIFIED WELDER. WELDING PROCEDURES FOR FIELD MOMENT CONNECTIONS SHALL BE APPROVED BY THE ENGINEER.
- C. ELECTRODES SHALL BE E70.
- D. EMBEDMENT ANCHORS SHALL BE HEADED ANCHOR STUDS WITH FLUXED ENDS, AUTOMATICALLY END WELDED.
- E. ALL STRUCTURAL AND MISCELLANEOUS STEEL WORK, EXCEPT STEEL TO BE EMBEDDED IN CONCRETE OR FIELD WELDED, SHALL BE SHOP PAINTED AND TOUCHED UP IN THE FIELD AFTER ERECTION. ALL WELDS AND BOLTED CONNECTIONS SHALL BE PAINTED TO MATCH. PROVIDE 3" MIN. CONCRETE COVER FOR ALL STEEL EXPOSED TO EARTH U.N.O.
- F. SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED TO THE ENGINEER OF RECORD PRIOR TO THE FABRICATION / INSTALLATION OF THE REINFORCEMENT.
- G. PAINT ALL STEEL USING (2) COATS DTM ACRYLIC - COLOR BY OWNER

	ASTM DESIGNATION	MIN YIELD STRESS, Fy
C-SHAPE	A36	36 KSI
HSS RECT.	A500, GRADE B	46 KSI
PLATES	A36	36 KSI

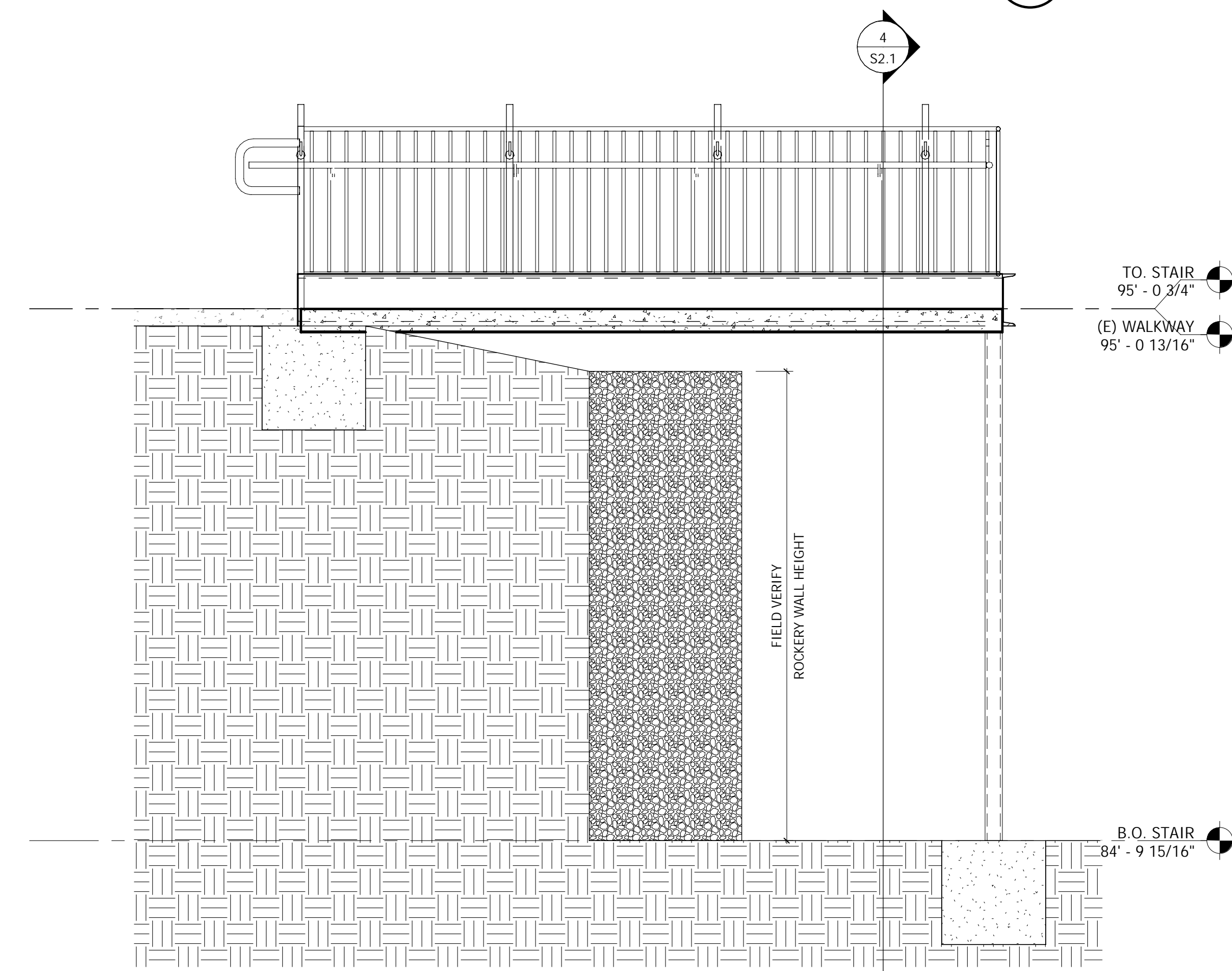
	ASTM DESIGNATION	MIN YIELD STRESS, Fy
ANCHOR ROD	F1554, GR 36 U.N.O.	--

DIVISION 5 - SECTION 05300 METAL DECKING

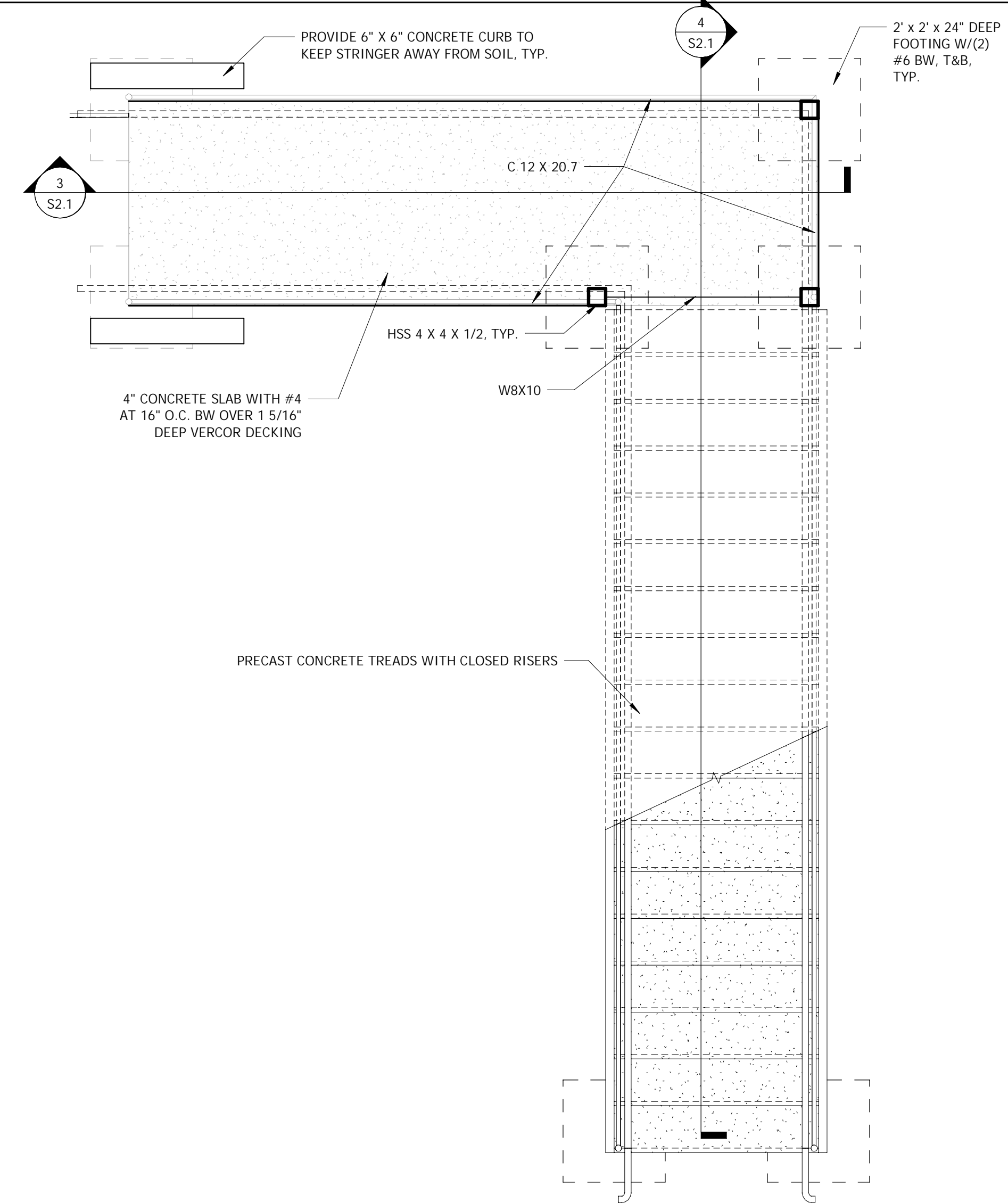
- A. METAL DECK SHALL BE FORMED FROM SHEETS CONFORMING TO ASTM A 446. DECK SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 525, G-60.
- B. METAL DECK SHALL BE AS MANUFACTURED BY VERCO, OR EQUAL. DECK SHALL BE 1-1/2" TYPE HSB-36.
- C. DECKING SHALL BE FURNISHED IN THE LONGEST PRACTICAL LENGTHS.
- D. ALL DECK CLOSURES, EDGE TRIMS AND FLASHING SHALL BE INCLUDED AS A PART OF THIS WORK. ACCESSORY ITEMS SHALL BE GALVANIZED SHEET.



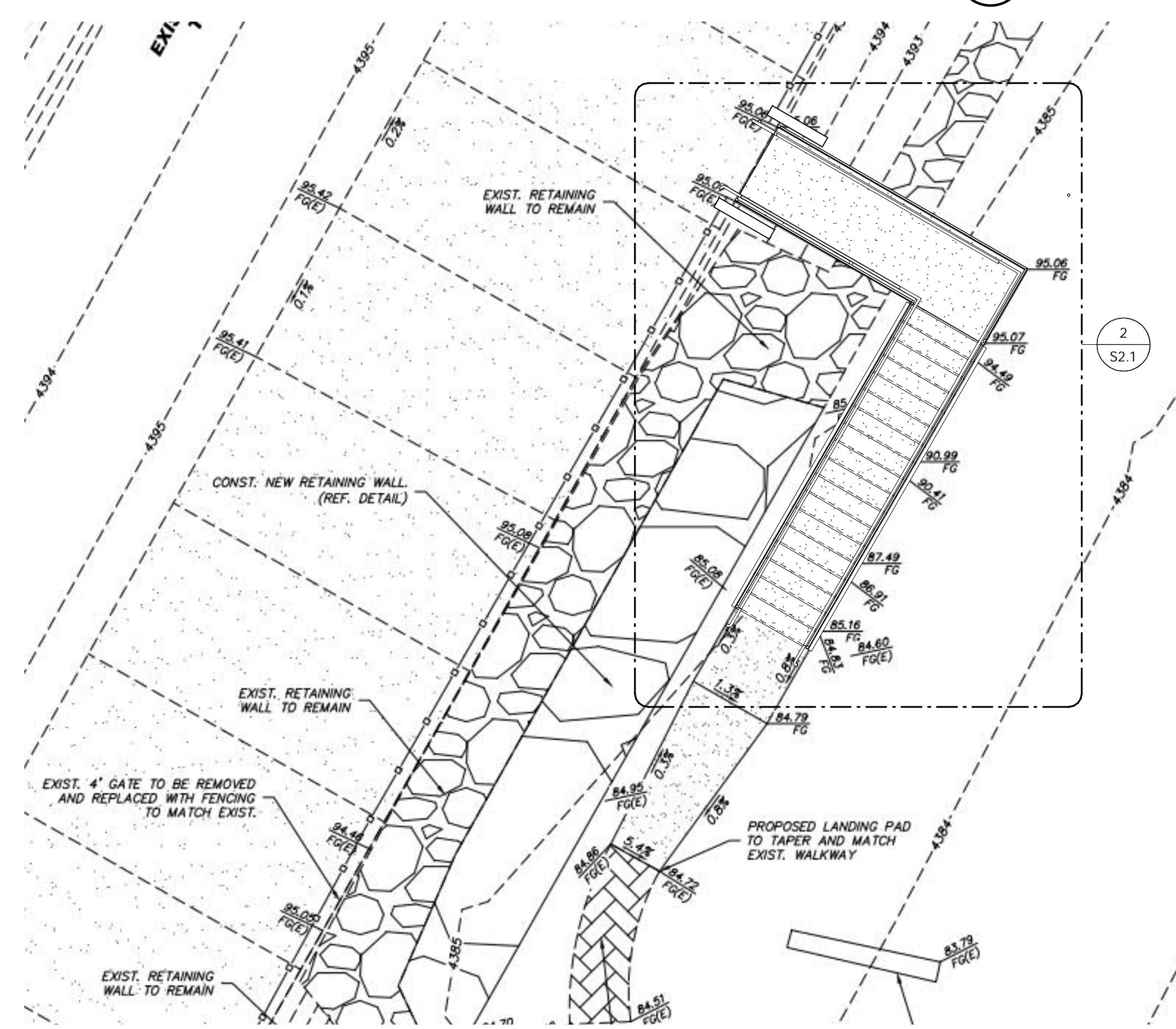
STAIR SECTION
SCALE: 1/2" = 1'-0"



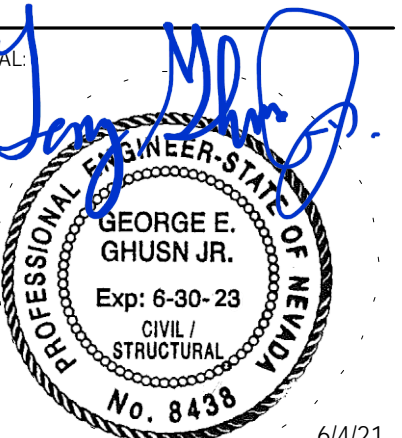
PLATFORM SECTION
SCALE: 1/2" = 1'-0"



STAIR PLAN VIEW
SCALE: 1/2" = 1'-0"



SITE
SCALE: 1" = 5'-0"



6/4/21
ISSUED FOR:
PERMIT-UPDATE

SPARKS MARINA STAIR AT MEMORIAL
300 HOWARD DRIVE
SPARKS, NV, 89434

PROJECT INFORMATION:

REVISIONS		
REV #	DESCRIPTION	DATE

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DESIGNED/DRAWN:	CRM / JLK
CHECKED:	GEG
PROJECT NO.:	20200077
SCALE:	As Noted
DATE:	6/4/21
SHEET TITLE:	STAIR PLAN

SHEET

S2.1

SPARKS MARINA STAIR AT MEMORIAL
300 HOWARD DRIVE
SPARKS, NV, 89434

PROJECT INFORMATION:

REVISIONS		
REV #	DESCRIPTION	DATE

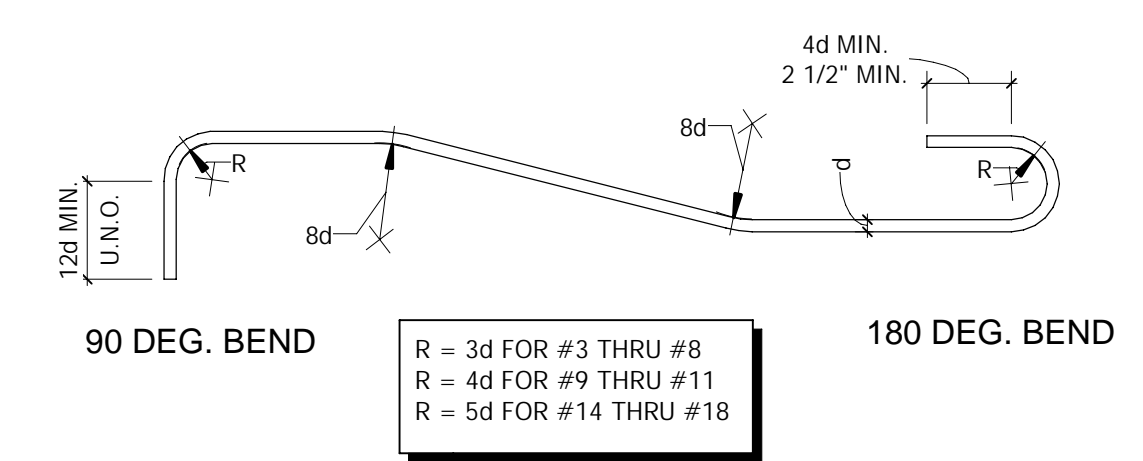
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DESIGNED/DRAWN: CRM / JLK
CHECKED: GEG
PROJECT NO: 20200077
SCALE: As Noted
DATE: 6/4/21
SHEET TITLE:

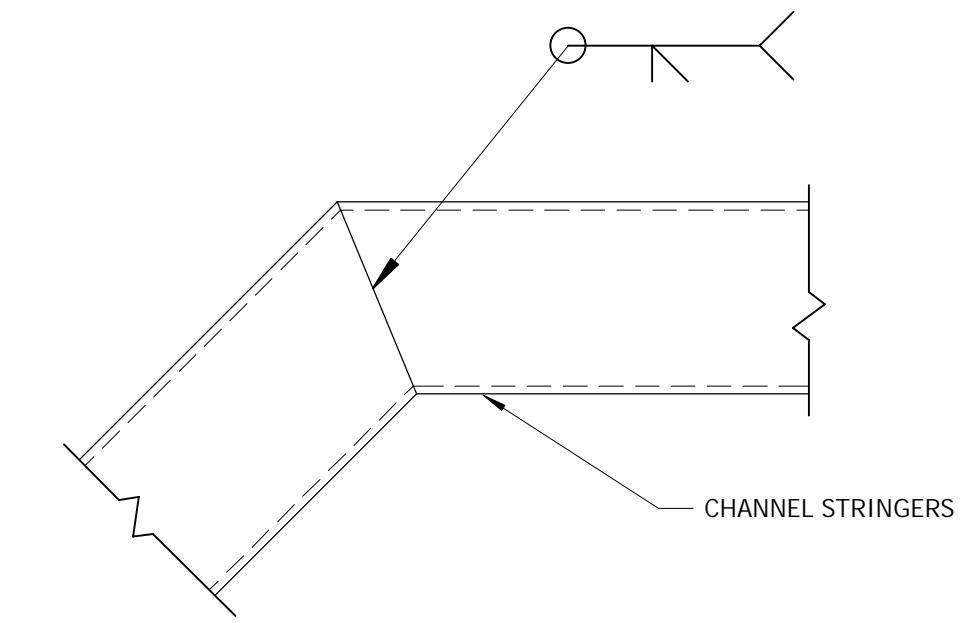
STAIR DETAILS

SHEET

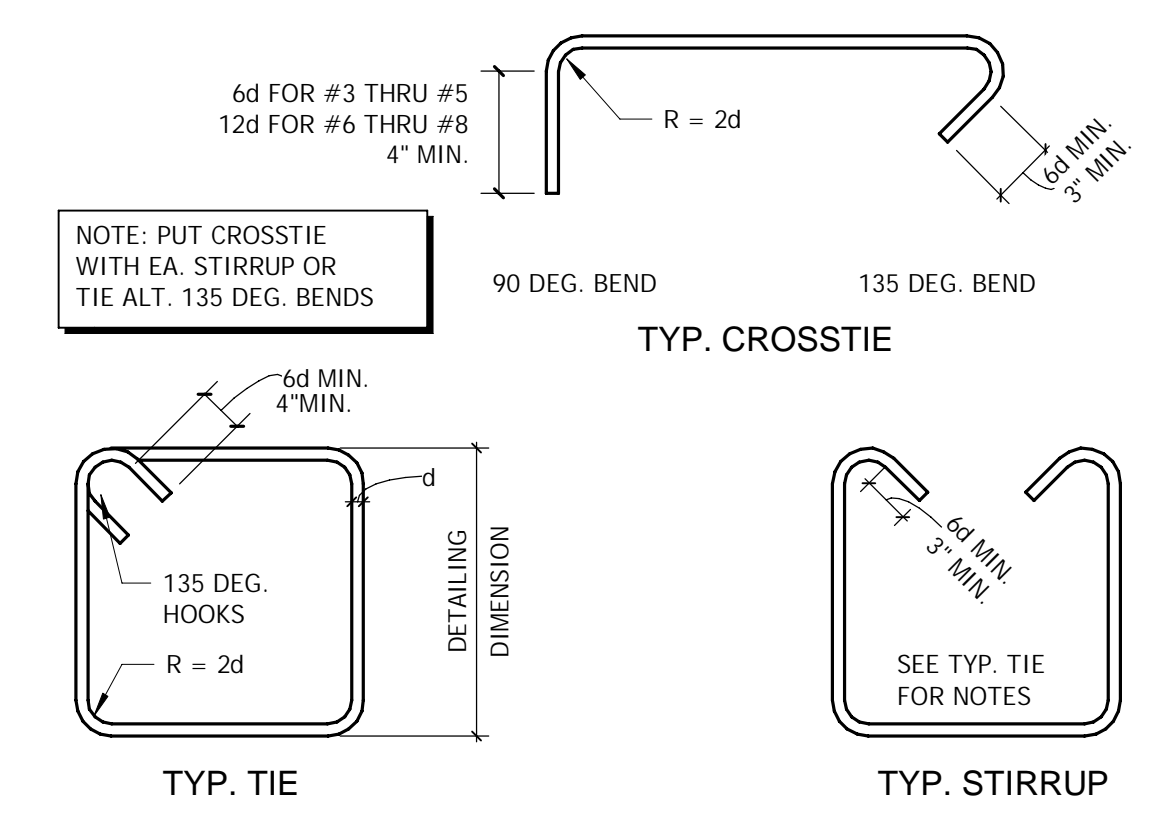
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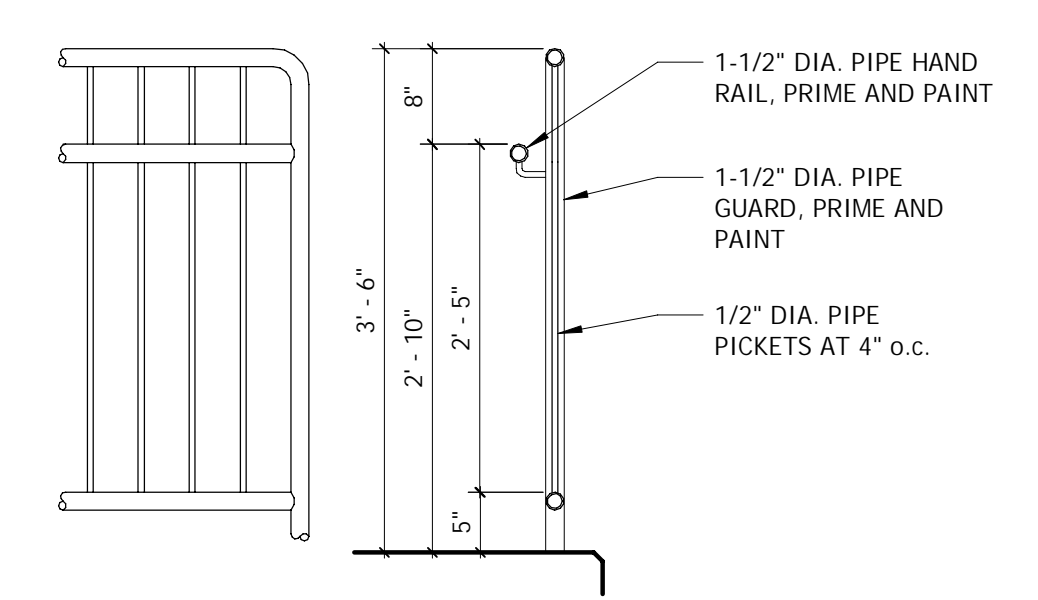
TYP. HOOKS AND BENDS
SCALE: 1 1/2" = 1'-0" **5**



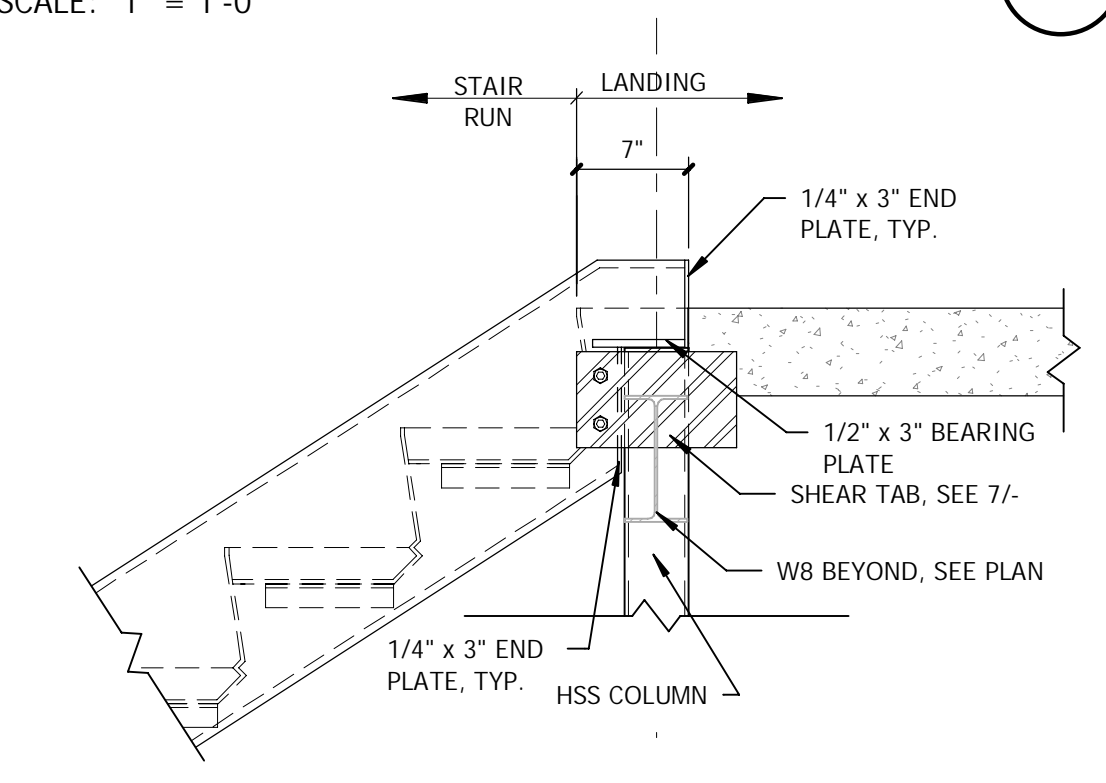
TYPICAL BENDS IN FRAMING
SCALE: 1" = 1'-0" **4**



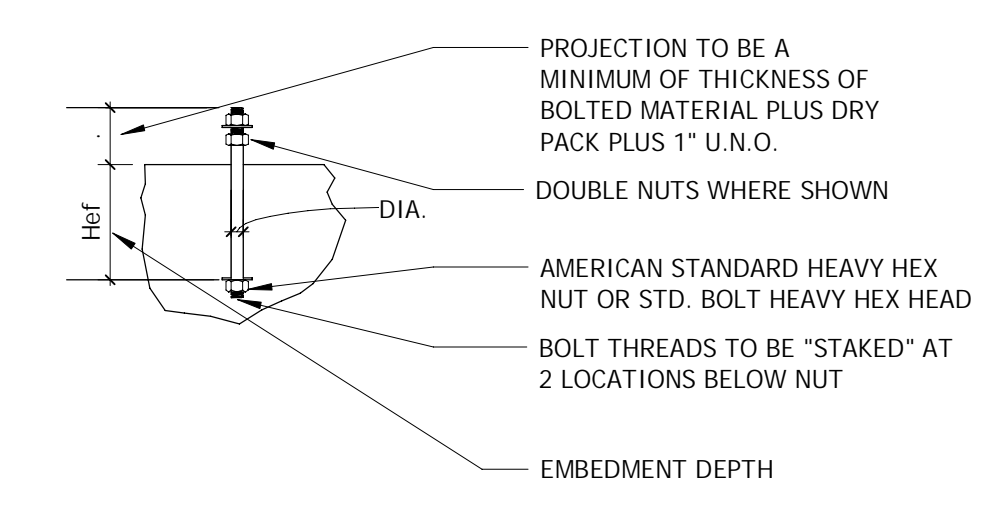
HOOKS & BENDS FOR TIES
SCALE: 1" = 1'-0" **9**



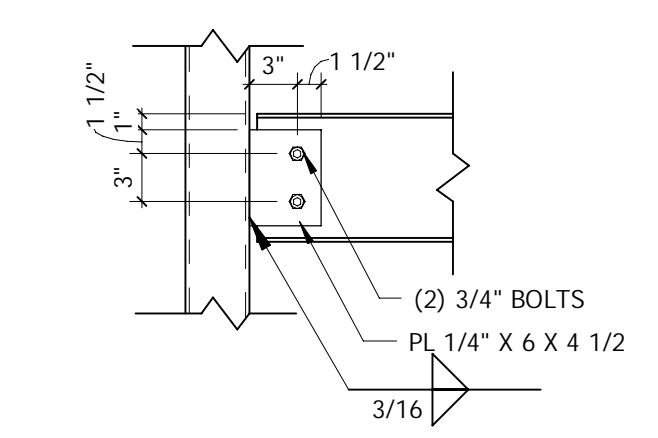
GUARD RAIL/HANDRAIL DETAIL
SCALE: 3/4" = 1'-0" **8**



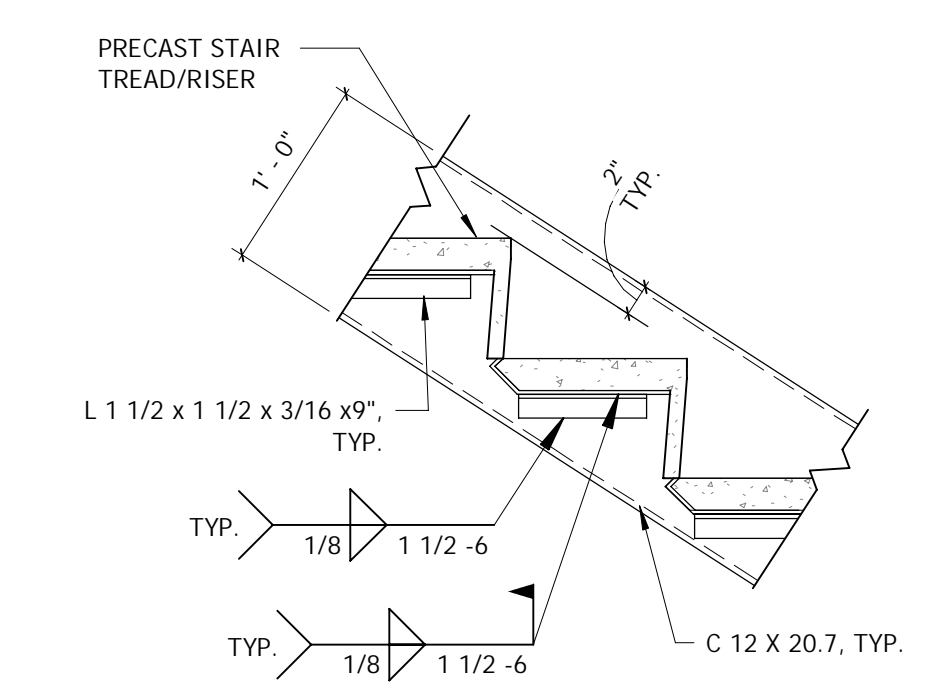
STRINGER CONNECTION AT FLOOR
SCALE: 1" = 1'-0" **3**



TYP. ANCHOR BOLT IN CONC.
SCALE: 1" = 1'-0" **11**



STEEL SHEAR TAB
SCALE: 1" = 1'-0" **7**

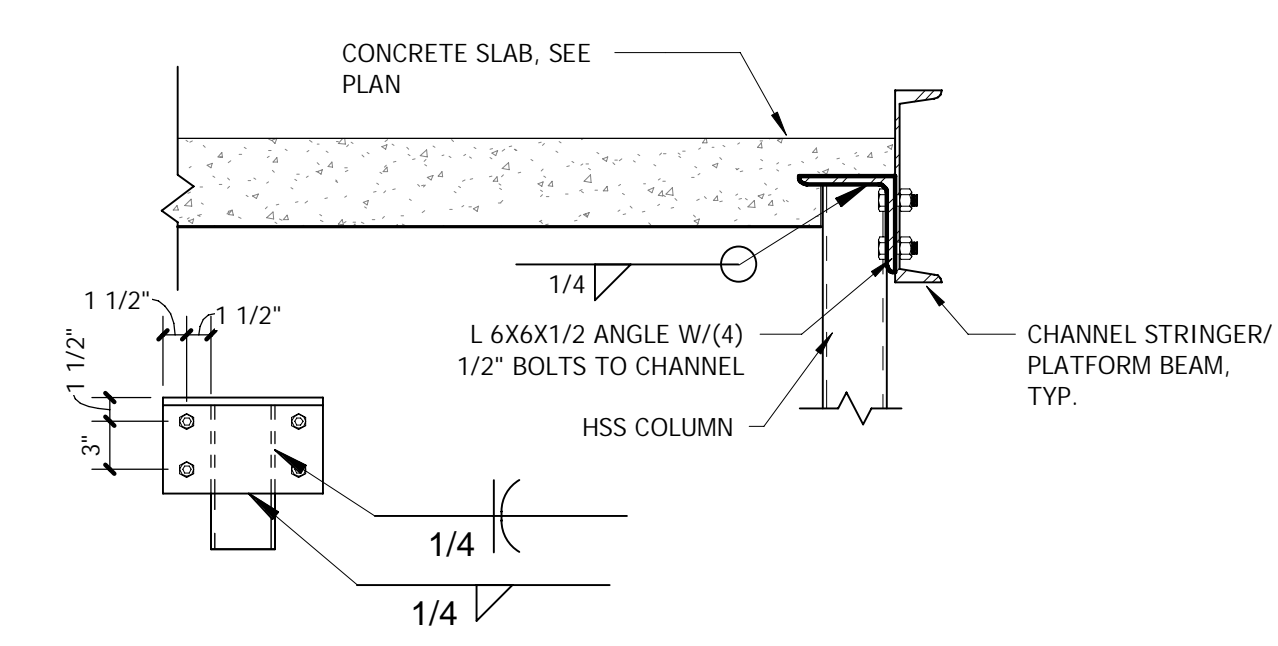


TYPICAL STAIR STRINGER
SCALE: 1" = 1'-0" **2**

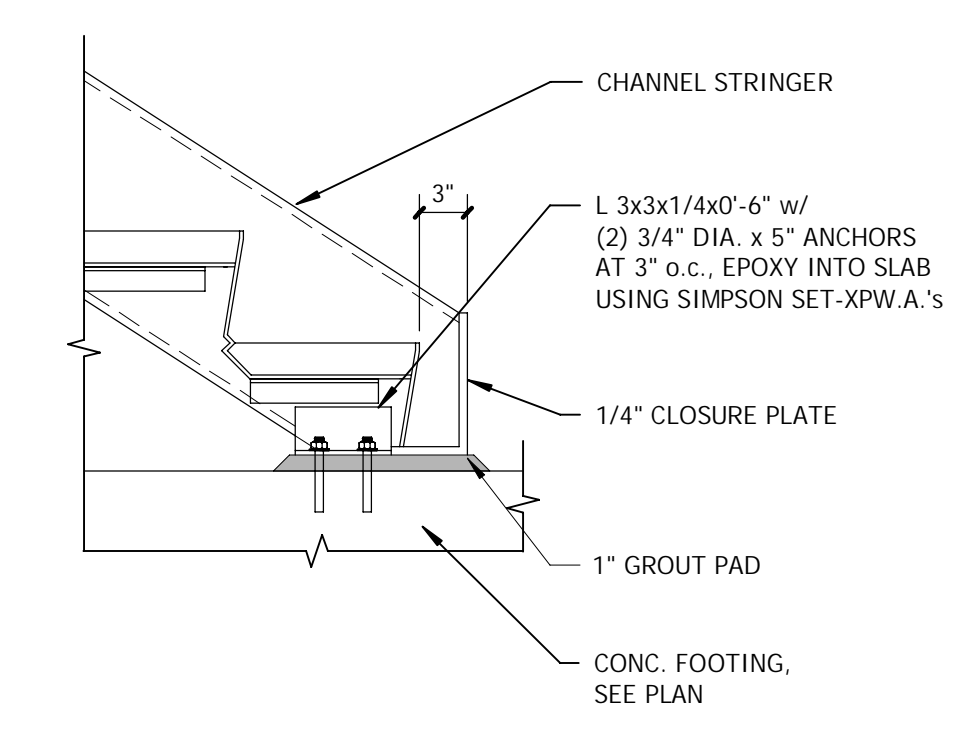
CLASS	28 - DAY COMPRESSIVE STRENGTH, PSI	SIZE AND TYPE AGGREGATE	MAX SHRINK	ENTRAINED AIR-PERCENT	MAX. SLUMP INCHES	MAX W/C RATIO
A	3000	3/4" CONC.	0.065%	NONE	3"	0.45
B	4500	3/4" CONC.	0.065%	6±1	3"	0.45

- NOTES:
- SLUMP INDICATED IS WITH WATER ONLY. ADDITIONAL SLUMP IS ACCEPTABLE IF ADDED BY MEANS OF ADDITIVES THAT DO NOT PROMOTE SHRINKAGE OF CONCRETE OR DEGRADE THE CONCRETE.
 - USE TYPE II CEMENT.
 - USE CLASS B FOR FOUNDATIONS.
 - USE CLASS B FOR PLATFORM

CONCRETE MIX DESIGNS
SCALE: 1" = 1'-0" **10**



PLATFORM SECTION AT COLUMN
SCALE: 1" = 1'-0" **6**



TYP. STRINGER AT FOOTING
SCALE: 1" = 1'-0" **1**