

A	1		2		3		4		5							
	ACCESSIBLE RAMPS				PROJECT DATA		PROJECT TEAM		DRAWING INDEX							
WILLITS VETERAN'S MEMORIAL BUILDING				COUNTY OF MENDOCINO		OCCUPANCY TYPE: A-2 CONSTRUCTION TYPE: V-B EXISTING BUILDING: BASEMENT FLOOR: 2475 SF MAIN FLOOR: 3427 SF NEW SHED: 63 SF TOTAL AREA: 5965 SF SPRINKLERED: NO		OWNER: DOUG ANDERSON COUNTY OF MENDOCINO 841 LOW GAP ROAD UKIAH, CA 95482 (707) 234-6054 andersond@co.mendocino.ca.us ARCHITECT: CHARLES L. BEAVERS, AIA BROKAW DESIGN P.O. BOX 3103 ROHNERT PARK, CA 94928 (415) 860-5043 charles.beavers@brokawdesign.com CIVIL ENGINEER: JASON ISLAND, P.E. SHN CONSULTING ENGINEERS & GEOLOGISTS, INC. 335 MAIN STREET WILLITS, CA 95490 (707) 459-4518 jisland@shn-engr.com ELECTRICAL ENGINEER: COURTNEY CHUENYANE, P.E. BROKAW DESIGN P.O. BOX 3103 ROHNERT PARK, CA 94928 (707) 799-6822 courtney.chuenyane@brokawdesign.com		ARCHITECTURE A001 COVER SHEET A101 DEMOLITION SITE PLAN A102 SITE PLAN - NEW A201 EXTERIOR STORAGE SHED A301 INTERIOR RAMP CIVIL G-1 CIVIL COVER G-2 STANDARD ABBREVIATIONS AND LEGENDS G-3 PROJECT SPECIFICATIONS C-1 ADA RAMPS AND PARKING C-2 ADA DETAILS ELECTRICAL E101 ELECTRICAL PLANS E102 PHOTOMETRIC PLAN						
B	PLAN CHECK SUBMITTAL				SCOPE OF WORK		APPLICABLE CODES									
	ABBREVIATIONS				SYMBOLS		1. DEMOLISH RAMP AND WALKS AT FRONT ENTRANCE. 2. DEMOLISH METAL SHED AT BASEMENT LEVEL ENTRANCE. 3. CONSTRUCT NEW CONCRETE RAMP AT FRONT ENTRANCE. 4. CONSTRUCT NEW ACCESSIBLE PARKING. 5. CONSTRUCT NEW CONCRETE RAMP & WALKS FROM STREET TO BASEMENT LEVEL ENTRANCE. 6. CONSTRUCT NEW LEAN-TO STRUCTURE AT BASEMENT LEVEL ENTRANCE. 7. CONSTRUCT NEW INTERIOR WOOD RAMP.		2016 CALIFORNIA BUILDING CODE, VOLUMES 1 AND 2 (CBC) 2016 CALIFORNIA ELECTRIC CODE (CEC) 2016 CALIFORNIA PLUMBING CODE (CPC) 2016 CALIFORNIA MECHANICAL CODE (CMC) 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSC)							
C	A.B. ANCHOR BOLTS ACOUS. ACOUSTICAL ADM. ADMINISTRATIVE ALS. ASSISTIVE LISTENING SYSTEM ALT. ALTERNATE ALUM. ALUMINUM APPROX. APPROXIMATE ARCH. ARCHITECTURAL BLDG. BUILDING BLK. BLOCK BLKG. BLOCKING BM. BEAM B.N. BOUNDARY NAIL BOT. BOTTOM BRD. BOARD BTR. BETTER CAB. CABINET CAC. CALIFORNIA ADMIN-ISTRATIVE CODE CAT. CATWALK CEM. PLAS. CEMENT PLASTER CER. CERAMIC C.J. CONSTRUCTION JOINT CLG. CEILING CLR. CLEAR C.O. (GSA) CONTRACTING OFFICER COL. COLUMN CONC. CONCRETE CONN. CONNECTION CONT. CONTINUOUS CONTR. CONTRACTOR C.M.U. CONCRETE MASONRY UNIT CSPE. CHLOROSULFONATED POLYETHYLENE ("HYPALON") DBL. DOUBLE DET. DETAIL D.F. DOUGLAS FIR DIAG. DIAGONAL DIA. DIAMETER DIM. DIMENSION DN. DOWN DP. DEEP DR. DOOR D.S. DOWNSPOUT DSA. DIVISION OF THE STATE ARCHITECT EA. EACH E.F. EACH FACE E.J. EXPANSION JOINT ELEV. ELEVATION ELEC. ELECTRICAL EMT. ELEC. METALLIC TUBING E.N. EDGE NAIL E.Q. EQUAL EQPT. EQUIPMENT E.S. EACH SIDE E.W. EACH WAY EXIST. EXISTING EXP. EXPANSION EXT. EXTERIOR FDN. FOUNDATION FWHS. FLAT HEAD WOOD SCREW FIN. FINISH FIN. FL. FINISH FLOOR F.J. FLOOR JOIST FL. FLOOR FLUOR. FLUORESCENT F.N. FIELD NAIL F.O.C. FACE OF CONCRETE F.O.F. FACE OF FINISH F.O.M. FACE OF MASONRY F.O.S. FACE OF STUD FRMG. FRAMING FT. FOOT/FEET GA. GAUGE GAL. GALLON GALV. GALVANIZED GSS. GALVANIZED SHEET STEEL GLB. GLUE LAMINATED BEAM GRD. GRADE GSA. GENERAL SERVICES ADMINISTRATION				G.S.M. GALVANIZED SHEET METAL GYPSUM BOARD H.D. HOLD-DOWN HMA HAZARDOUS MATERIALS HORIZ. H.S.B. HORIZONTAL HIGH STRENGTH BOLTS HT. HEIGHT HDR. HEADER IN. (INCHES) I.D. INSIDE DIAMETER INSUL. INSULATION ISA. INTERNATIONAL SYMBOL OF ACCESS JT. JOINT JST. JOIST LVT. LAMINATE VINYL TILE MAX. MAXIMUM M.B. MACHINE BOLTS MECH. MECHANICAL MET. METAL MEZZ. MEZZANINE MFR. MANUFACTURER MIN. MINIMUM N/A. NOT APPLICABLE N.I.C. NOT IN CONTRACT NOM. NOMINAL N.T.S. NOT TO SCALE O.C. ON CENTER O.H. OPPOSITE HAND OLA. OFFICE OF LOCAL ASSISTANCE OPP. OPPOSITE PERIM. PERIMETER PBS. PUBLIC BUILDINGS SERVICE P.C.C. PRECAST CONCRETE PL. PLATE P.L. PROPERTY LINE P.LAM. PLASTIC LAMINATE PLYWD. PLYWOOD P.N. PLATE NAIL P.S.F. POUNDS PER SQUARE FOOT P.S.I. POUNDS PER SQUARE INCH P.T. PRESSURE TREATED POINT R. RISER RAD. RADIUS REINF. REINFORCEMENT REQD. REQUIRED RES. RESILIENT R.O. ROUGH OPENING R.S. ROUGH SAWN RDWD. REDWOOD RO. ROUGH R.W.L. RAIN WATER LEADER SA. SUSPENDED ACOUSTICAL SCD. SEE CIVIL DRAWINGS SHT. SHEET S.H. SINGLE HUNG SIM. SIMILAR SLDR. SLIDER SMD. SEE MECHANICAL DRAWINGS S.O.G. SLAB ON GRADE SPEC(S) SPECIFICATION(S) SQ. SQUARE S.S. STAINLESS STEEL S.S.D. SEE STRUCTURAL DRAWINGS S.S.P. STANDARD STEEL PIPE STRUC. STRUCTURAL SYM. SYMMETRICAL T. TREAD T.&B. TOP AND BOTTOM T.&G. TONGUE AND GROOVE T.C. TOP OF CURB TEL. TELEPHONE TERR. TERRAZZO T.O.C. TOP OF CONCRETE T.O.PL. TOP OF PLATE LINE T.O.S. TOP OF STEEL T.O.SF. TOP OF SUBFLOOR T.O.W. TOP OF WALL				T.P. TOP OF PAVEMENT TRANSV. TRANSVERSE TR. TREATED TYP. TYPICAL U.O.N. UNLESS OTHERWISE NOTED VERT. VERTICAL VG. VERTICAL GRAIN W. WIDE WASH. WASHER W/C. WITH WATER CLOSET WD. WOOD W/O. WITHOUT WP. WATERPROOF WPF. WEATHERPROOF X. CROSS				& AND @ AT CL CENTER LINE Ø DIAMETER OR ROUND LINE (E) EXISTING ⊥ PERPENDICULAR # POUND OR NUMBER PL PLATE (N) NEW WP WORK POINT NOM. NOMINAL FLOOR LEVEL OR MATCH LINE 4 COLUMN GRID 4 LOUVER SYMBOL 4 DOOR SYMBOL 4 WINDOW SYMBOL 4 GATE SYMBOL SECTION / EXTERIOR ELEVATION SYMBOL SECTION / ELEVATION NUMBER 4 DETAIL SYMBOL 4 DETAIL NUMBER 4 SHEET NUMBER 1 INTERIOR ELEVATION SYMBOL 2 DETAIL NUMBER 3 SHEET NUMBER REVISION SYMBOL REF. NORTH 1 EQUIPMENT SYMBOL 26 STUD SIZE 6 TYPE NO. WIC- WOODWORK INSTITUTE SERIES DESIGNATION 100 CABINET DESIGNATION 36 HEIGHT 24 DEPTH 30 WIDTH D14 KEY NOTE SYMBOL			
	LOCATION MAP				VICINITY MAP				GENERAL NOTES							
D									GENERAL NOTES 1. NEW CONSTRUCTION, IF SPECIFICALLY NOTED IN THE ARCHITECTURAL DRAWINGS, SHALL EITHER BE UNPREFIXED OR PREFIXED BY "NEW" OR "N". 2. EXISTING CONSTRUCTION, IF SPECIFICALLY NOTED IN THE ARCHITECTURAL DRAWINGS, SHALL ALWAYS BE PREFIXED BY "EXIST" OR "E". 3. CONTRACTOR TO VERIFY ALL CONDITIONS AND MEASUREMENTS OF AS-BUILT CONSTRUCTION AFFECTING PROPOSED WORK. ANYALL INCONSISTENCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH WORK. 4. INFORMATION ON EXISTING CONDITIONS WAS OBTAINED FROM VERY LIMITED OBSERVATIONS. THE ARCHITECT ASSUMES OBSERVED CONDITIONS TO BE REPRESENTATIVE. HOWEVER, ACTUAL CONDITIONS MAY VARY. THE CONTRACTOR SHALL EXERCISE DUE DILIGENCE IN VERIFYING ACTUAL CONDITIONS. 5. THIS PROJECT INVOLVES REMOVAL OF PORTIONS OF EXISTING BUILDING SYSTEMS AND THEIR RECONSTRUCTION TO SUIT THE PROPOSED DESIGN. THESE DOCUMENTS INDICATE REQUIREMENTS FOR THE PRIMARY INTERFACE BETWEEN EXISTING AND CONSTRUCTION. HOWEVER, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND ESTABLISH ALL OTHER INTERFACE CONDITIONS WHICH MAY BE REQUIRED AND DEEMED MOST SUITABLE TO SUIT THE PROPOSED DESIGN. 6. DETAIL REFERENCES SHALL BE UNDERSTOOD TO APPLY TO SIMILAR CONDITIONS AND/OR ADJACENT CONSTRUCTION. 7. DO NOT SCALE DRAWINGS; WRITTEN DIMENSIONS SHALL GOVERN WORK.							
E																

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
SEAL:		
<div>LICENSED ARCHITECT</div> <div>CHARLES L. BEAVERS</div> <div>No. C 6601</div> <div>REN. 4-30-19</div> <div>STATE OF CALIFORNIA</div>		

CONSULTANT:

BrokawDesign

P.O. BOX 3103
ROHNERT PARK, CA 94927

WWW.BROKAWDESIGN.COM

PROJECT:

ACCESSIBLE RAMPS

WILLITS VETERAN'S MEMORIAL BUILDING

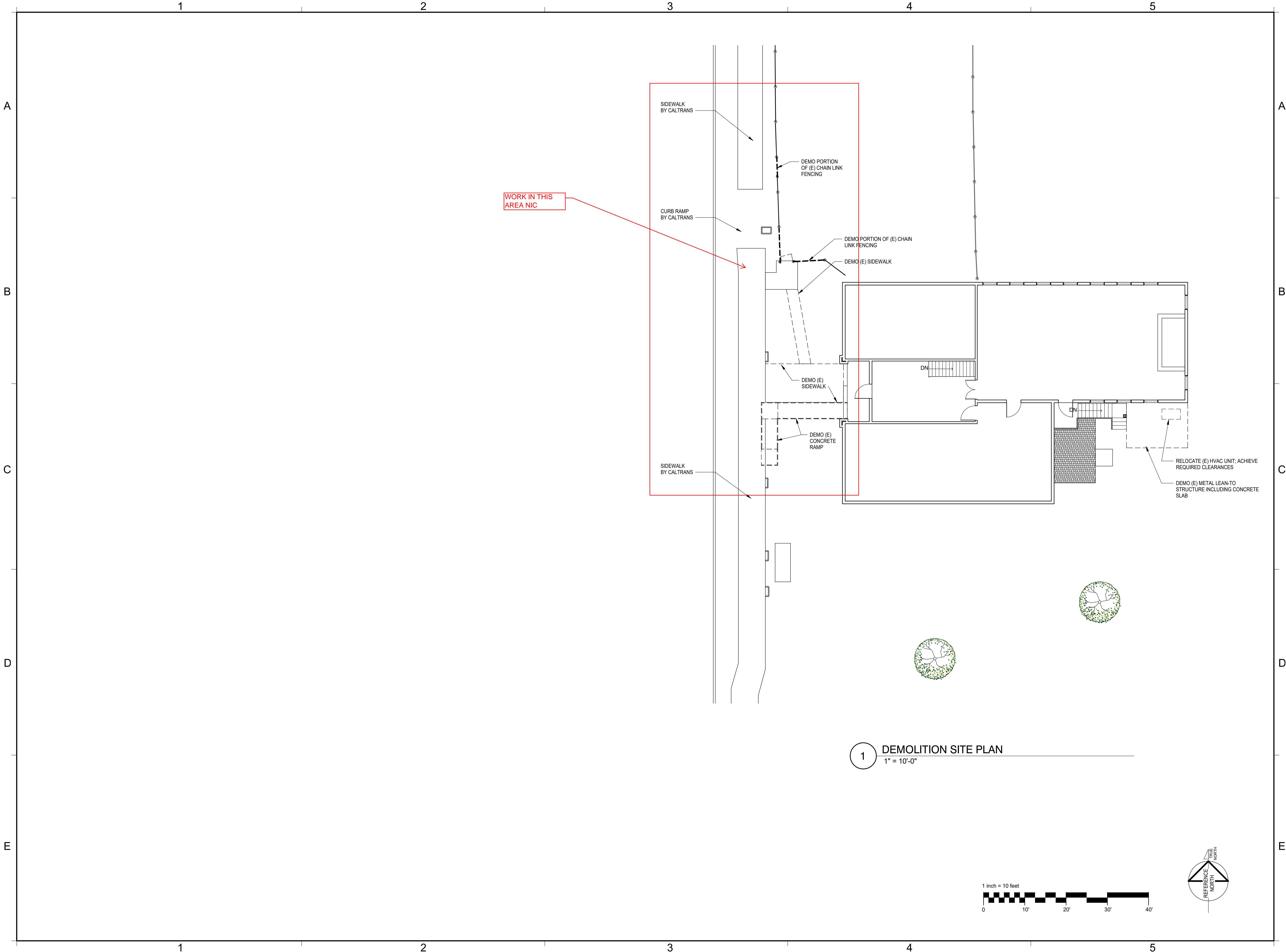
189 NORTH MAIN STREET
WILLITS, CA 95490

SHEET NAME:

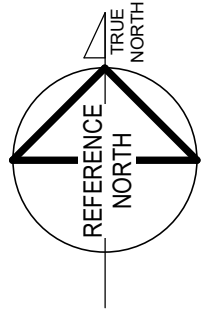
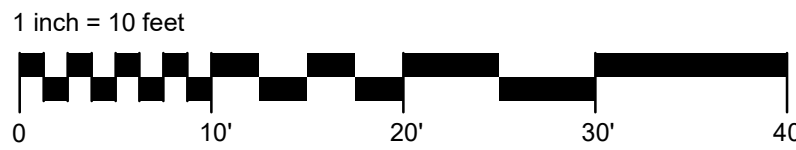
COVER SHEET

ISSUE DATE:	8/16/2017
PREPARATION AND REVIEW	
DRAWN BY:	mck
DESIGNER:	mck
PROJ MGR:	CLB
PEER REVIEW:	--
SHEET NUMBER:	

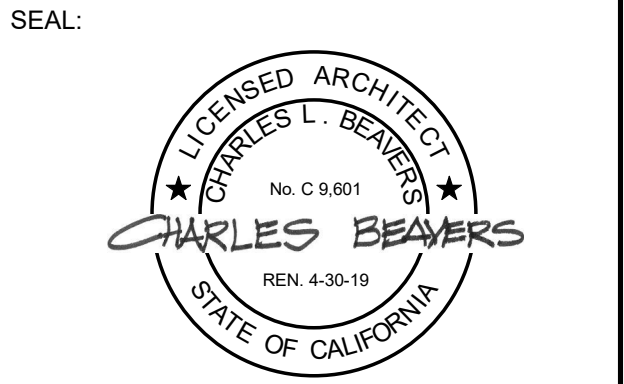
A001



1 DEMOLITION SITE PLAN
1" = 10'-0"



REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



CONSULTANT:

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P.O. BOX 3103
ROHNERT PARK, CA 94927
WWW.BROKAWDESIGN.COM

PROJECT:
**ACCESSIBLE
RAMPS**
WILLITS VETERAN'S
MEMORIAL BUILDING

189 NORTH MAIN
STREET
WILLITS, CA 95490

SHEET NAME:
**DEMOLITION SITE
PLAN**

ISSUE DATE:	8/16/2017
PREPARATION AND REVIEW	
DRAWN BY:	mck
DESIGNER:	mck
PROJ MGR:	CLB
PEER REVIEW:	--
SHEET NUMBER:	

A101

A
B
C
D
E

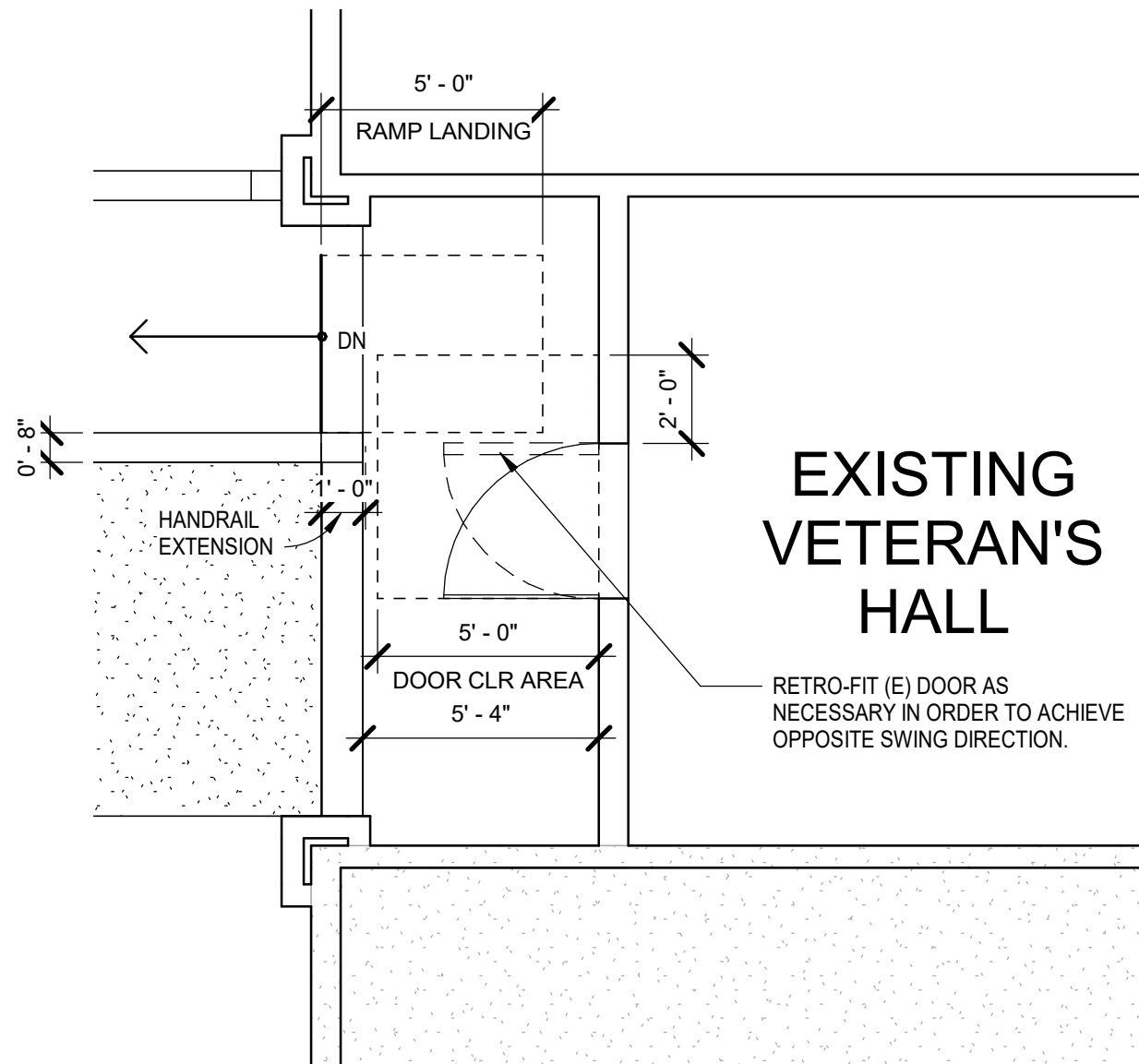
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2

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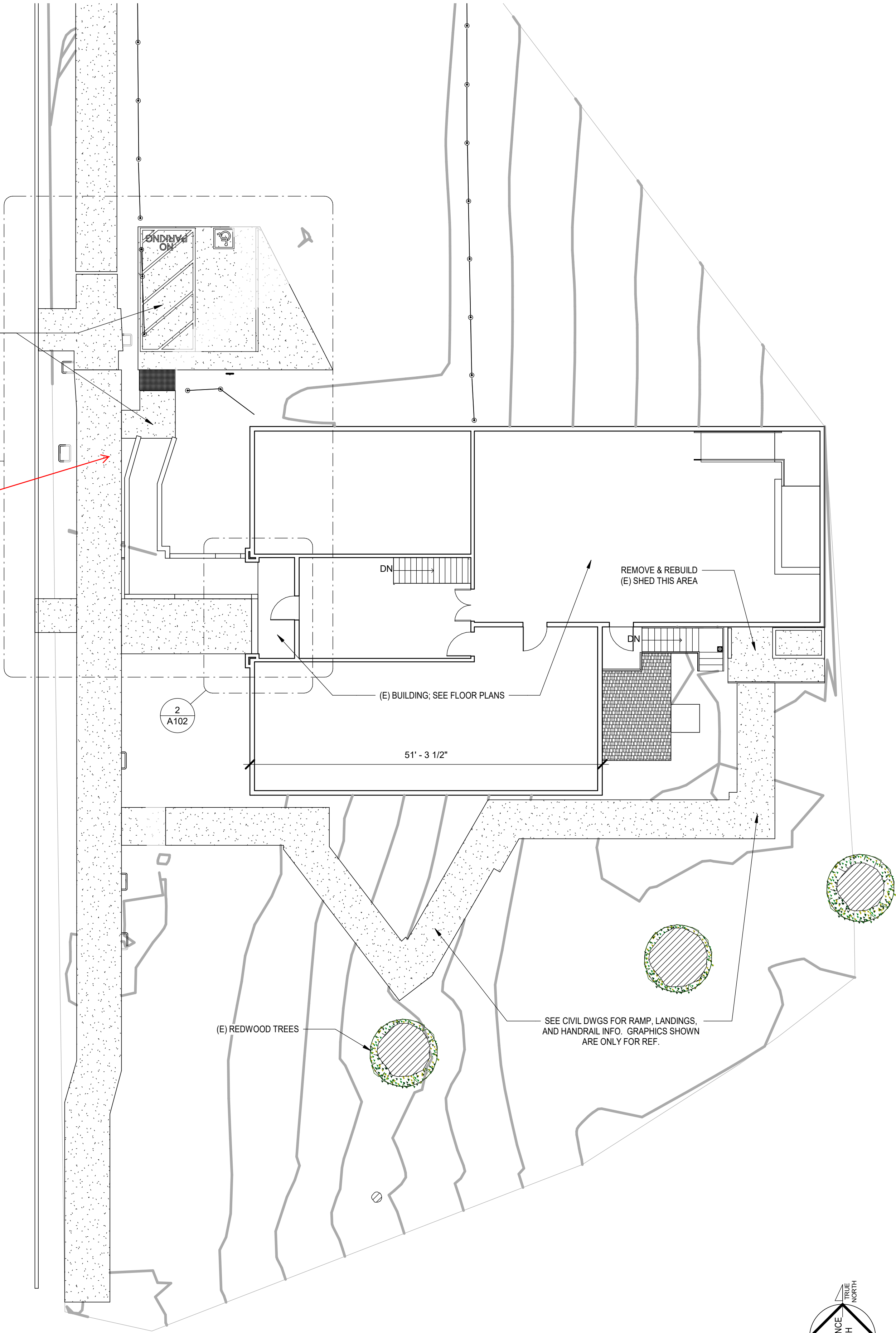


2 FRONT ENTRANCE PLAN
1/4" = 1'-0"

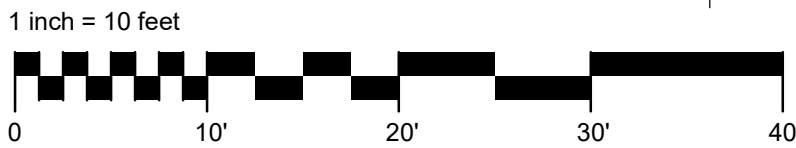
WORK IN THIS
AREA NIC

SEE CIVIL DWGS FOR ACCESSIBLE
PARKING AND PATH-OF-TRAVEL
REQUIREMENTS; GRAPHICS SHOWN ARE
ONLY FOR REF..

NORTH MAIN ST.



1 SITE PLAN
1" = 10'-0"



REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

SEAL:

CONSULTANT:

BrokawDesign
P.O. BOX 3103
ROHNERT PARK, CA 94927
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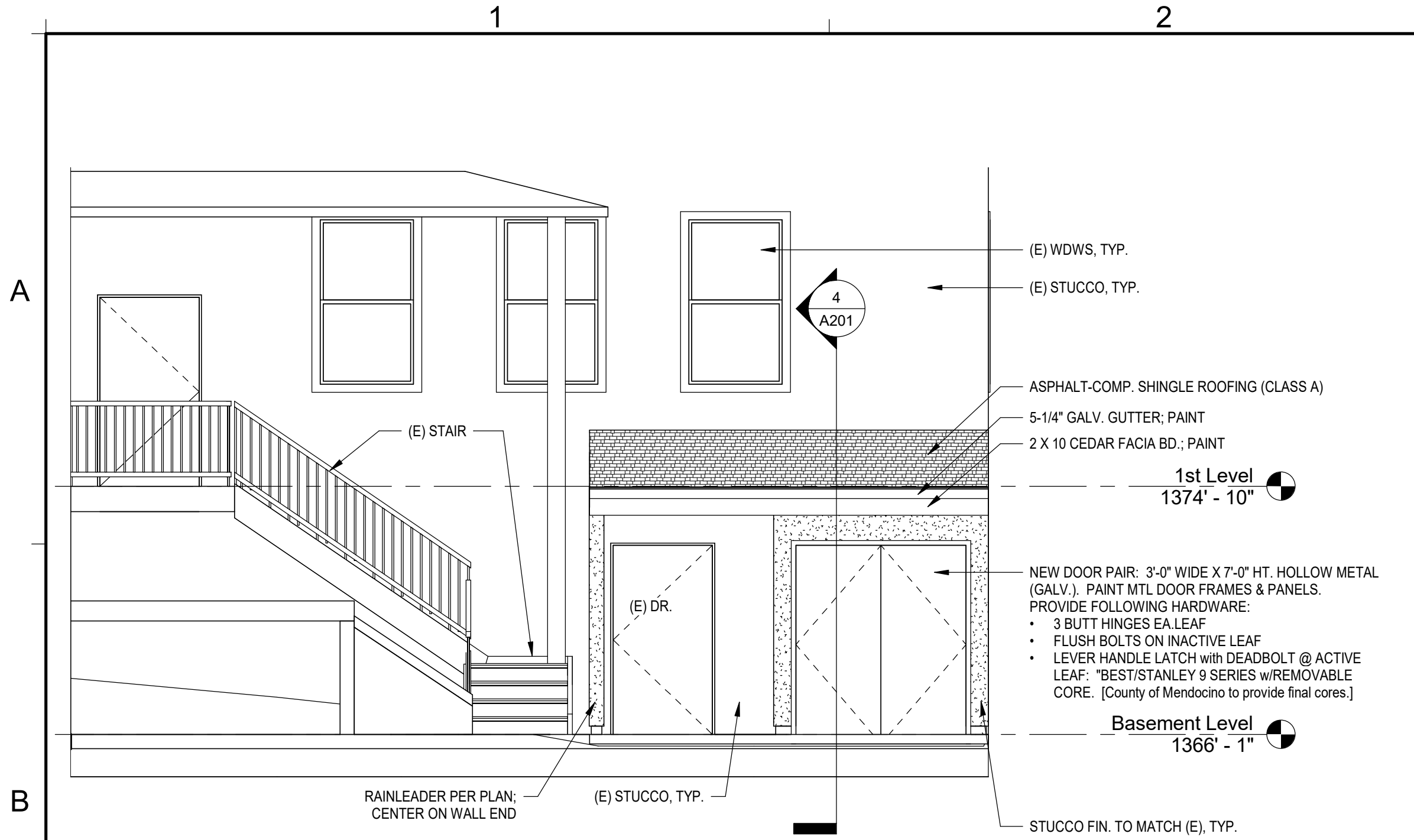
PROJECT:
**ACCESSIBLE
RAMPS**
WILLITS VETERAN'S
MEMORIAL BUILDING

189 NORTH MAIN
STREET
WILLITS, CA 95490

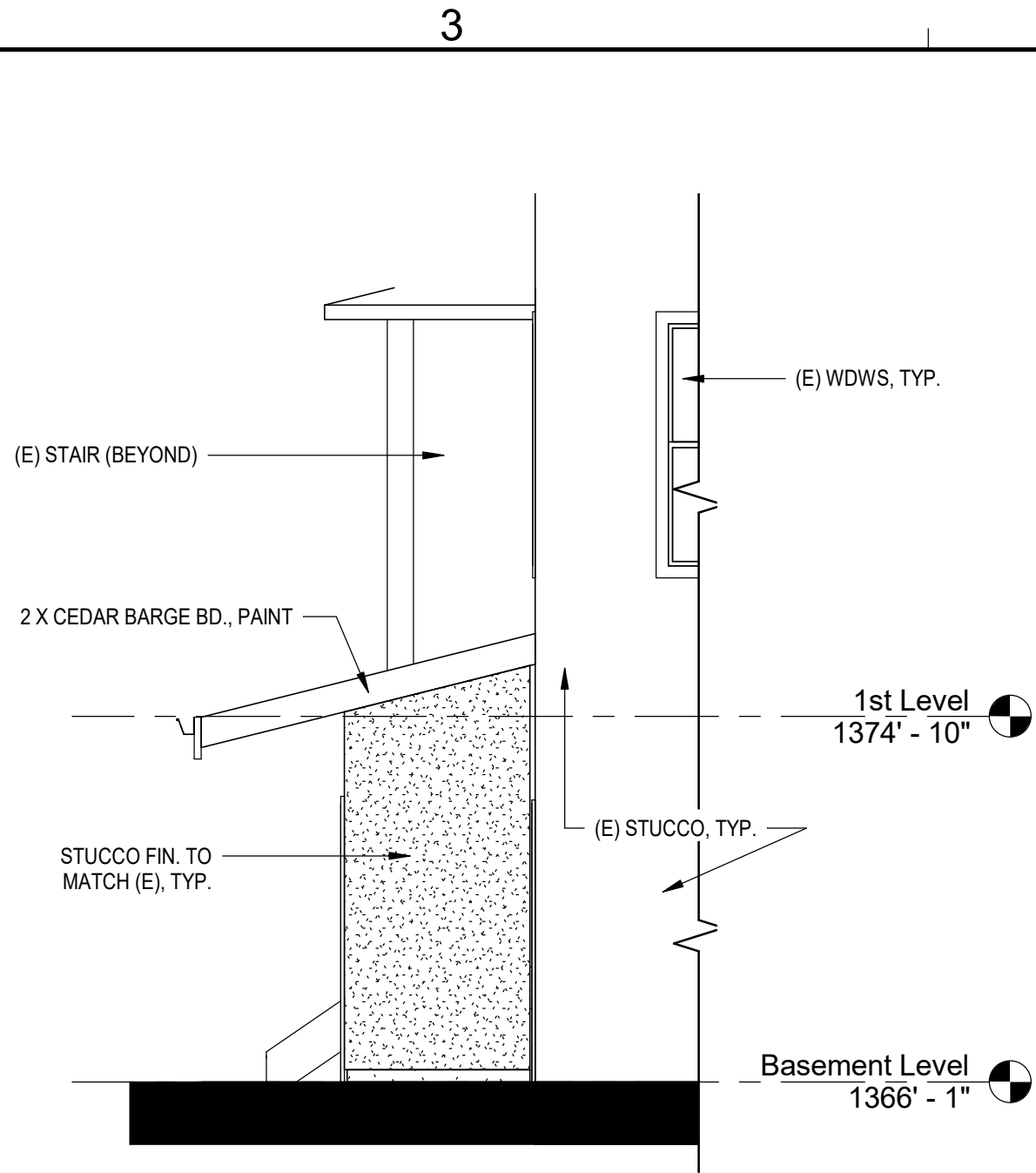
SHEET NAME:
SITE PLAN - NEW

ISSUE DATE:	8/16/2017
PREPARATION AND REVIEW	
DRAWN BY:	Author
DESIGNER:	Designer
PROJ MGR:	CLB
PEER REVIEW:	Checker
SHEET NUMBER:	

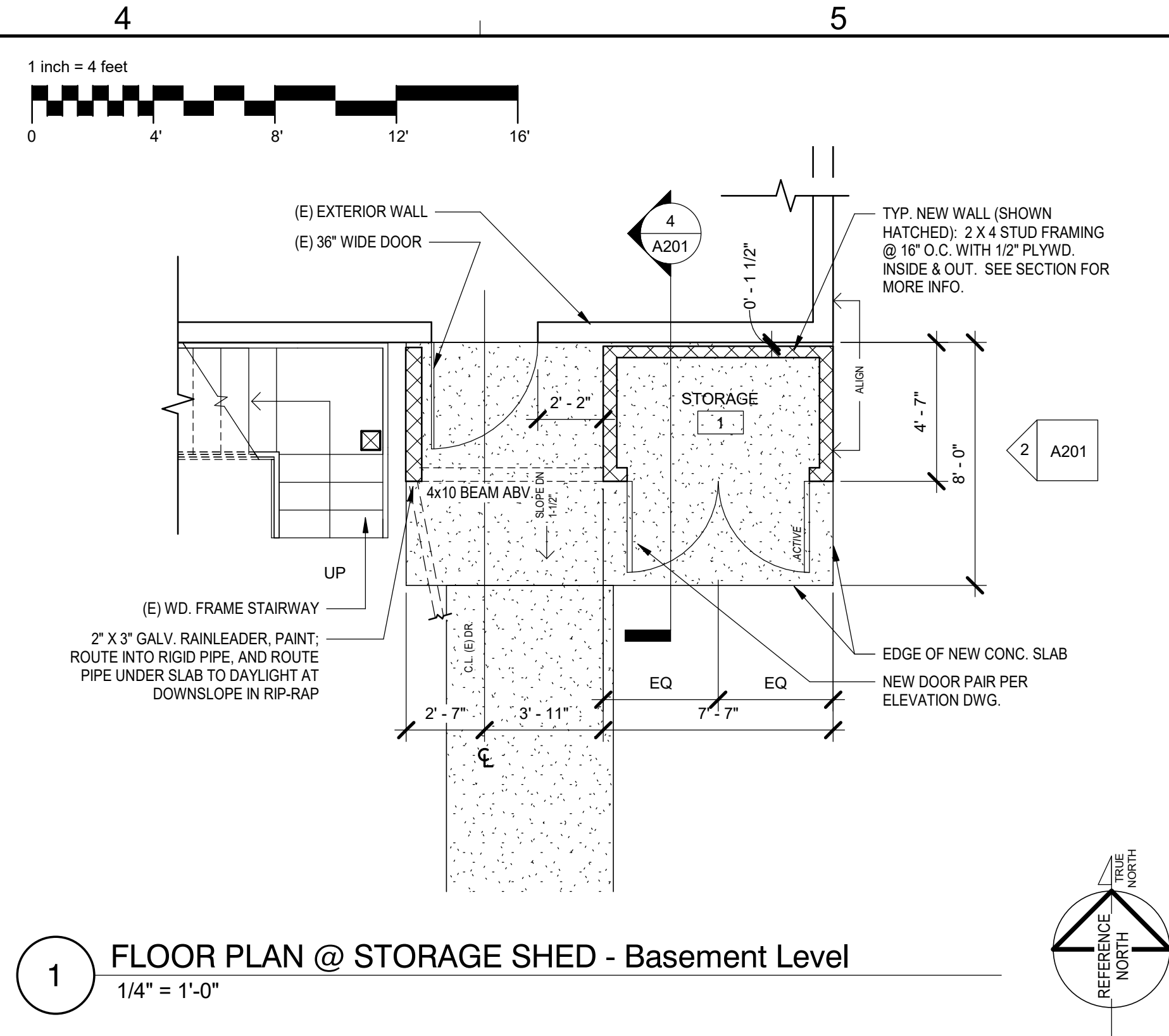
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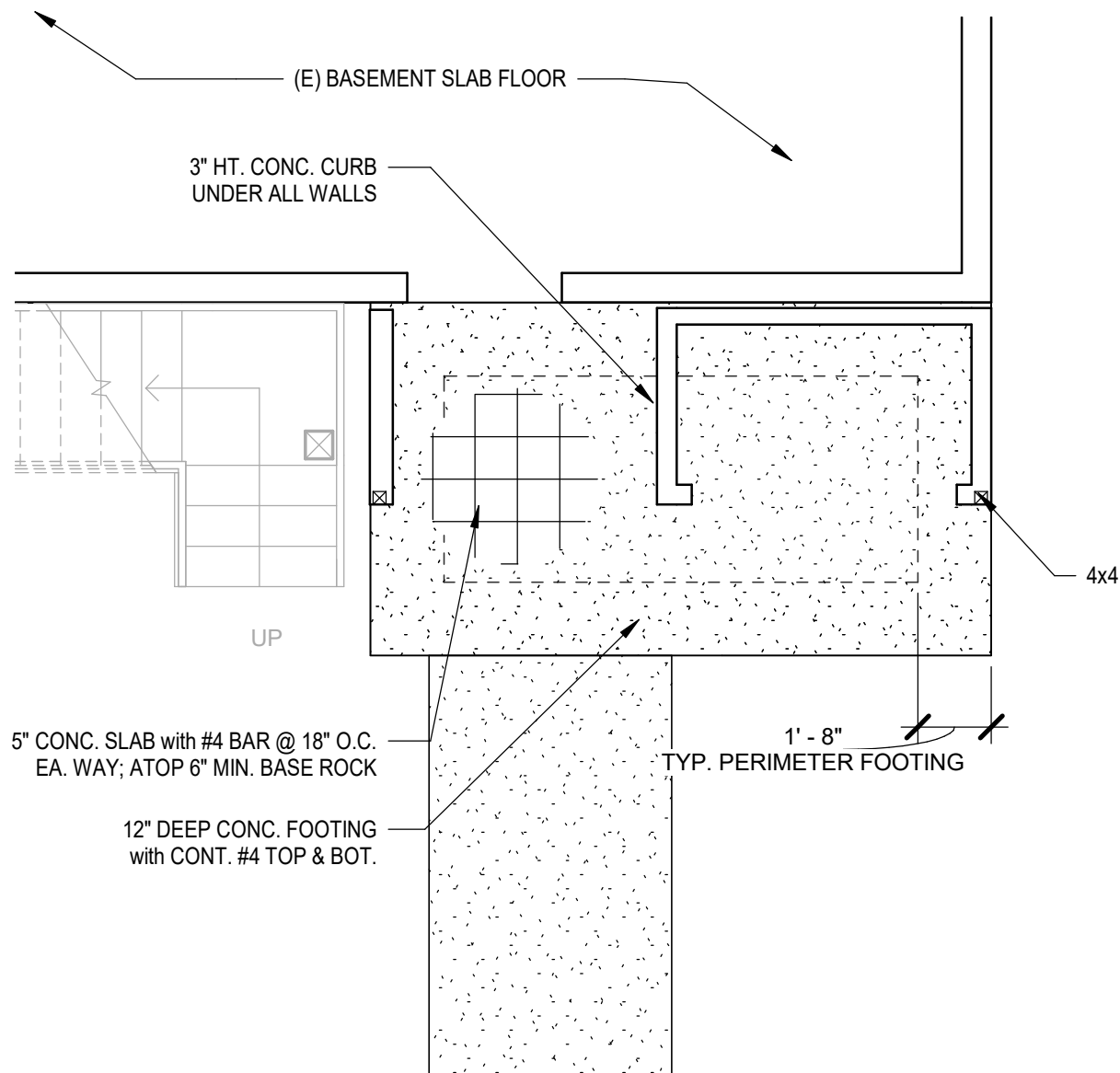
3 SIDE ELEVATION @ SHED
1/4" = 1'-0"



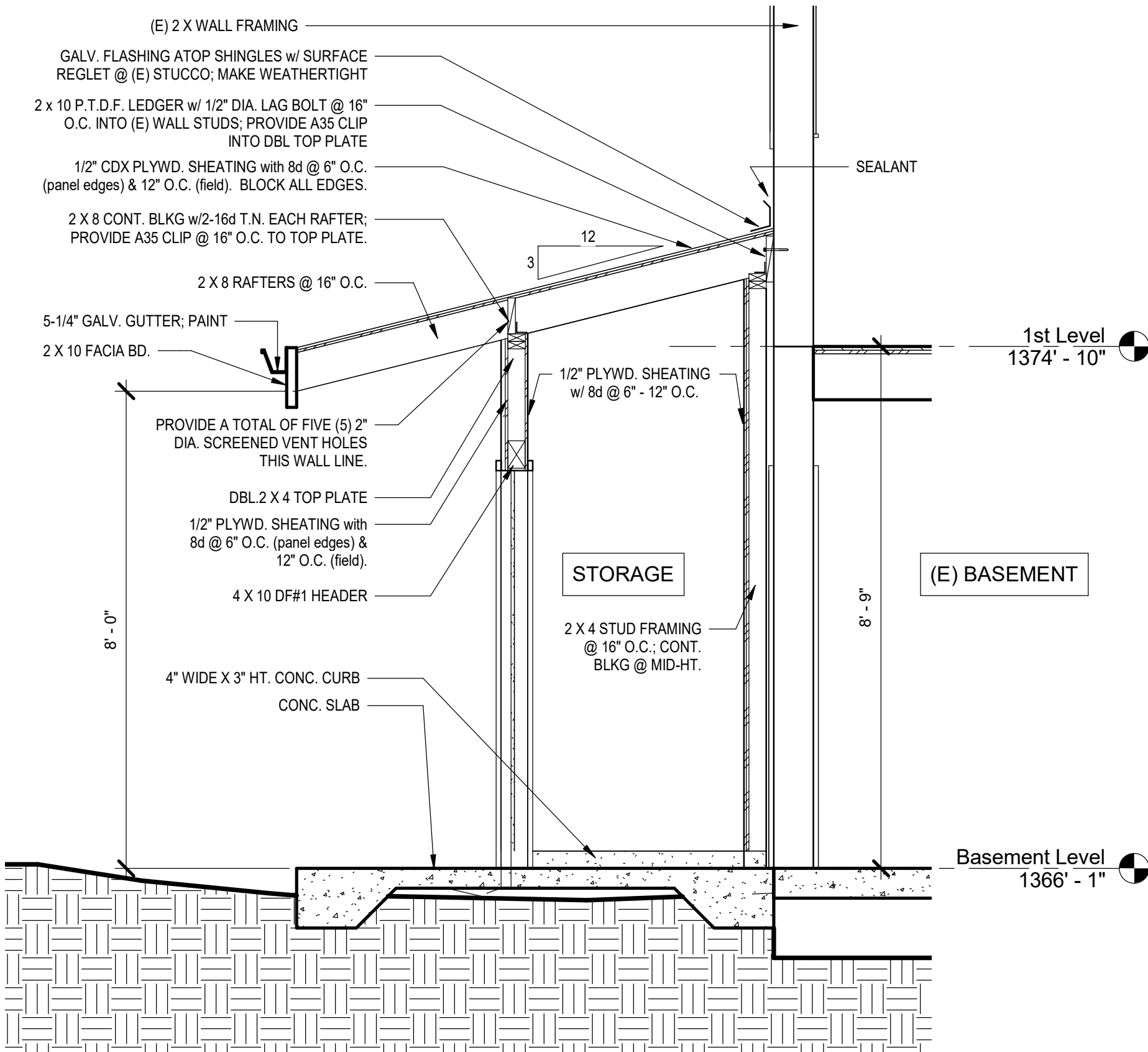
2 REAR ELEVATION @ SHED
1/4" = 1'-0"



1 FLOOR PLAN @ STORAGE SHED - Basement Level
1/4" = 1'-0"

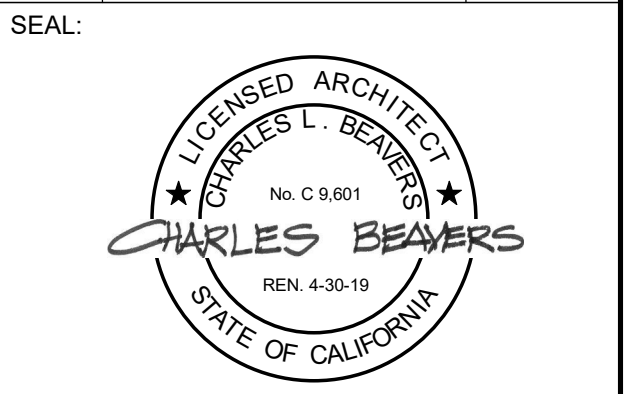


5 FOUNDATION PLAN @ STORAGE SHED
1/4" = 1'-0"



4 NORTH-SOUTH SECTION @ SHED
1/2" = 1'-0"

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



CONSULTANT:

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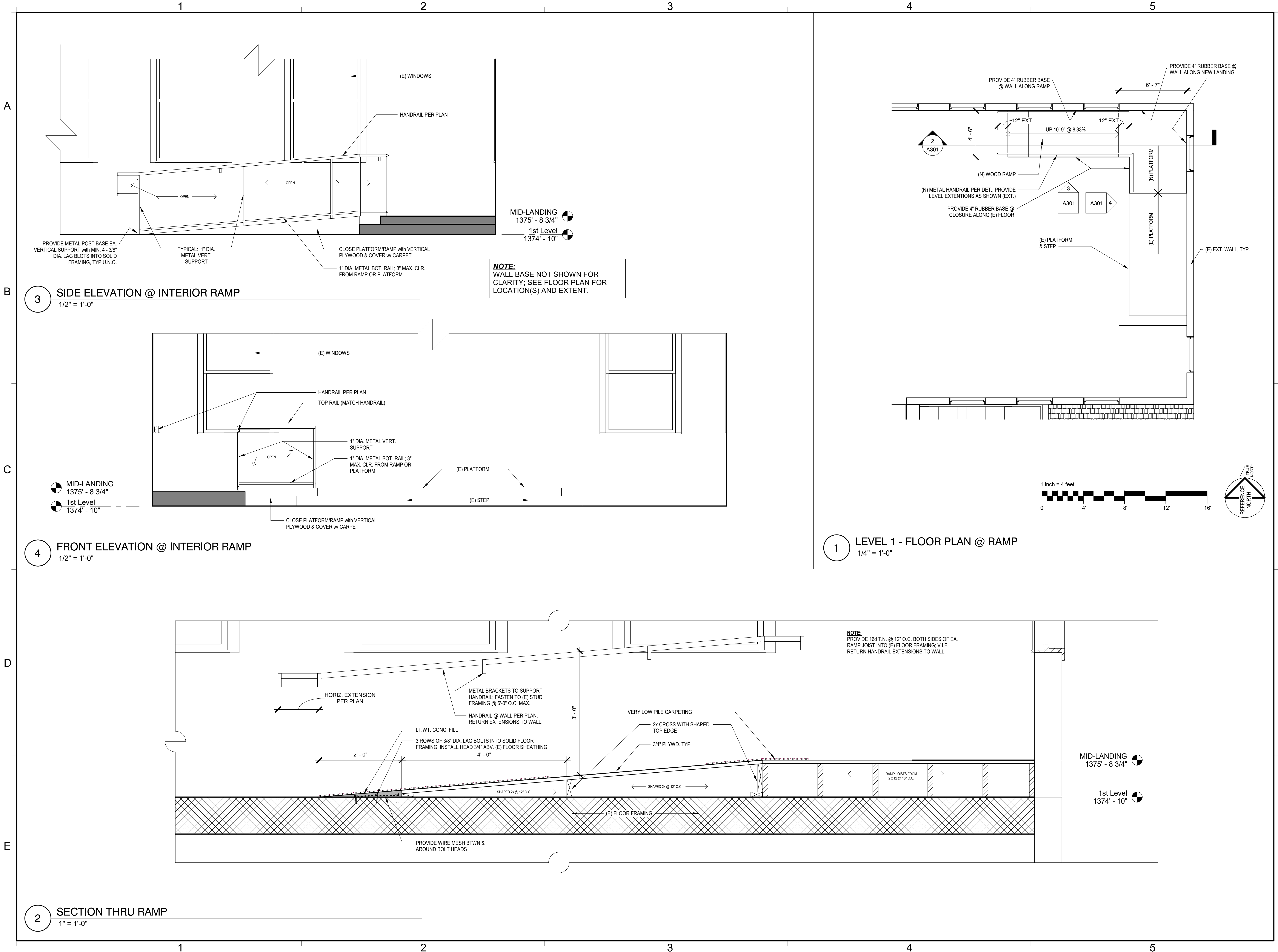
PROJECT:
**ACCESSIBLE
RAMPS**
WILLITS VETERAN'S
MEMORIAL BUILDING

189 NORTH MAIN
STREET
WILLITS, CA 95490

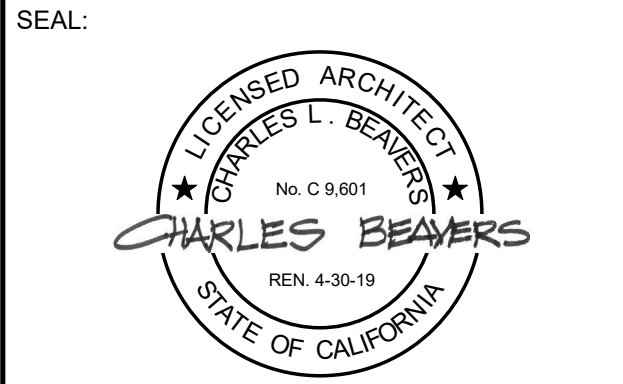
SHEET NAME:
**EXTERIOR
STORAGE SHED**

ISSUE DATE: 8/16/2017
PREPARATION AND REVIEW
DRAWN BY: Author
DESIGNER: Designer
PROJ MGR: CLB
PEER REVIEW: Checker
SHEET NUMBER:

A201



REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



CONSULTANT:

BrokawDesign
P.O. BOX 3103
ROHNERT PARK, CA 94927
WWW.BROKAWDESIGN.COM

PROJECT:
ACCESSIBLE RAMPS
WILLITS VETERAN'S MEMORIAL BUILDING

189 NORTH MAIN STREET
WILLITS, CA 95490

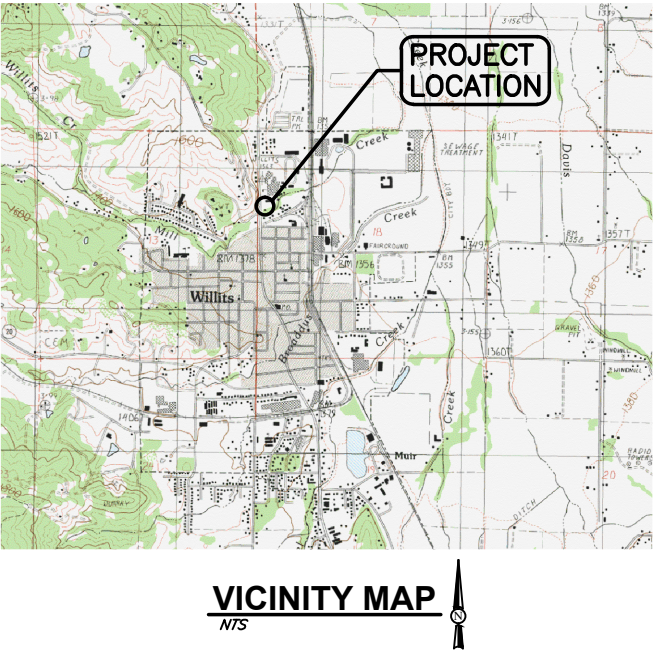
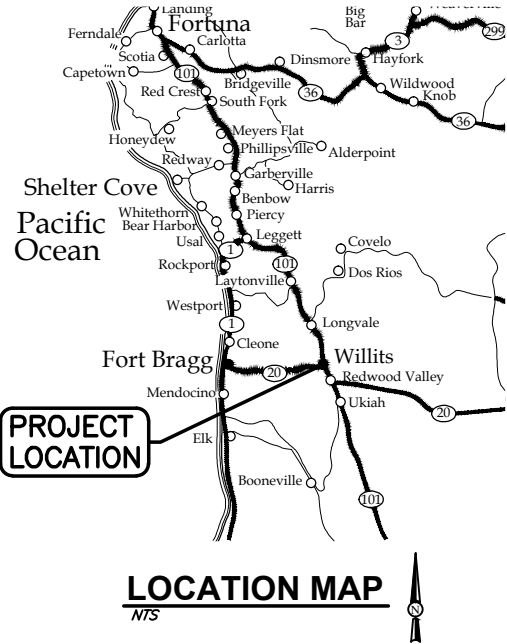
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INTERIOR RAMP

ISSUE DATE:	8/16/2017
PREPARATION AND REVIEW	
DRAWN BY:	Author
DESIGNER:	Designer
PROJ MGR:	CLB
PEER REVIEW:	Checker
SHEET NUMBER:	

A301

WILLITS VFW
ADA RAMPS AND PARKING
101 NORTH MAIN STREET, WILLITS, CALIFORNIA

PREPARED BY:



INDEX OF SHEETS

SHT	DWG	TITLE
1	G-1	COVER
2	G-2	STANDARD ABBREVIATIONS AND LEGENDS
3	G-3	PROJECT SPECIFICATIONS
4	C-1	ADA RAMPS AND PARKING
5	C-2	ADA DETAILS

SAVED: 4/14/2017 10:46 AM SHEATH, PLOTTED: 8/14/2017 4:15 PM SAM R. HEATH

Willitsvfw\Projects\2017\417004-VFW-Brokaw\Draws\417004-COVER.dwg



VERIFY SCALES
BAG IS ONE INCH ON ORIGINAL DRAWING
0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CONSULTING ENGINEERS & GEOLOGISTS, INC.
335 S. MAIN ST.
WILLITS, CA 95490
WWW.SH-ENGR.COM
707-459-4518

SH

DSGN	JGI	SRH	TAH	APVD	NO.	DATE	SHEET G3 ADDED	REVISION	BY
					2	08/14/2017			SRH

BROKAW DESIGN
VFW ADA RAMP AND PARKING
101 NORTH MAIN STREET, WILLITS, CALIFORNIA

COVER

SHEET	G-1
SEQ	1 OF 5
DATE	08/2017
PROJ. NO.	417004

SAVED: 8/14/2017 4:03 PM SHEATH, PLOTTED: 8/14/2017 4:16 PM SAM R. HEATH
 \\Willis\svr\Projects\2017\417004--VFW-Brokaw\Draws\417004--SPECS.dwg

GENERAL NOTES

- ALL MATERIAL WORKMANSHIP AND CONSTRUCTION SHALL CONFORM TO THE COUNTY OF MENDOCINO STANDARD SPECIFICATIONS AND STANDARD PLANS AND THE STATE OF CALIFORNIA STANDARD PLANS AND SPECIFICATIONS, LATEST EDITION.
- FOR WORK IN OR AFFECTING THE COUNTY ROAD RIGHT-OF-WAY, THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE COUNTY OF MENDOCINO (340 LAKE MENDOCINO DRIVE, UKIAH, CA 95482) BEFORE START OF WORK. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE PERMIT. FOR WORK IN OR AFFECTING THE STATE HIGHWAY RIGHT-OF-WAY, A CALTRANS ENCROACHMENT PERMIT IS REQUIRED.
- CONTRACTOR SHALL OBTAIN REQUIRED PERMITS FROM ALL AGENCIES AND PAY ALL AGENCY FEES PRIOR TO COMMENCEMENT OF ANY WORK. CONTRACTOR SHALL CONFORM WITH ZONING CODE, BUILDING CODE, AND ALL OTHER REQUIREMENTS ADMINISTERED BY THE COUNTY OF MENDOCINO PLANNING AND BUILDING SERVICES DEPARTMENT.
- CONTRACTOR SHALL GIVE THE COUNTY OF MENDOCINO DEPARTMENT OF TRANSPORTATION 72 HOURS NOTICE BEFORE STARTING WORK. CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION MEETING. CALL (707) 463-4363 OR CONTACT AT 340 LAKE MENDOCINO DRIVE, UKIAH, CA 95482.
- WORK HOURS ARE LIMITED TO MONDAY THROUGH FRIDAY, 7:00 A.M. TO 5:00 P.M. WHEN LANE CLOSURES ARE MADE FOR A WORK DAY ONLY, AT THE END OF EACH WORK DAY, ALL COMPONENTS OF THE TRAFFIC CONTROL SYSTEM, EXCEPT K-RAIL PLACED ALONG OPEN TRENCHES OR EXCAVATION ADJACENT TO THE TRAVELED WAY, SHALL BE REMOVED FROM THE TRAVELED WAY AND SHOULDER. ADJUST TO STATE ROW, REFER TO SECTION 7-1.04.1-4 OF CALTRANS STANDARD SPECIFICATIONS. IF THE CONTRACTOR SO ELECTS, SAID COMPONENTS MAY BE STORED AT SELECTED CENTRAL LOCATIONS AS APPROVED BY THE DOT DIRECTOR, AVAILABLE MONDAY THROUGH FRIDAY FROM 8:00 AM.M TO 4:30 P.M. CONTRACTORS SHALL SCHEDULE INSPECTIONS 72 HOURS IN ADVANCE BY CALLING (707) 463-4363.
- ANY DISCREPANCY DISCOVERED BY CONTRACTOR IN THESE PLANS OR ANY FIELD CONDITIONS DISCOVERED BY CONTRACTOR THAT MAY DELAY OR OBSTRUCT THE PROPER COMPLETION OF THE WORK PER THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE COUNTY DOT AND OWNER IMMEDIATELY UPON DISCOVERY. SAID NOTIFICATION SHALL BE IN WRITING.
- GRADE BREAKS ON CURBS AND SIDEWALKS SHALL BE ROUNDED OFF IN FORMS AND SURFACE FINISHING.
- ITEMS SPECIFIED ON THE STANDARD PLANS ARE APPROVED FOR USE BY THE COUNTY OF MENDOCINO. ALL SUBSTITUTES OR ALTERATIONS SHALL BE SUBMITTED TO THE COUNTY OF MENDOCINO FOR APPROVAL.
- THE CONTRACTOR SHALL MAINTAIN A NEAT APPEARANCE TO THE WORK. IN ANY AREA VISIBLE TO THE PUBLIC, THE FOLLOWING SHALL APPLY:

WHEN PRACTICABLE, BROKEN CONCRETE AND DEBRIS DEVELOPED DURING CLEARING AND GRUBBING SHALL BE DISPOSED OF CONCURRENTLY WITH ITS REMOVAL. IF STOCKPILING IS NECESSARY, THE MATERIAL SHALL BE REMOVED OR DISPOSED OF WEEKLY.

THE CONTRACTOR SHALL FURNISH TRASH BINS FOR ALL DEBRIS FROM STRUCTURE CONSTRUCTION. ALL DEBRIS SHALL BE PLACED IN TRASH BINS DAILY. FORMS OR FALSEWORK THAT ARE TO BE REUSED SHALL BE STACKED NEATLY CONCURRENTLY WITH THEIR REMOVAL. FORMS AND FALSEWORK THAT ARE NOT TO BE REUSED SHALL BE DISPOSED OF CONCURRENTLY WITH THEIR REMOVAL.
- CONTRACTOR SHALL COMPLY WITH ANY AND ALL MITIGATION MEASURES ADOPTED BY THE COUNTY OF MENDOCINO FOR THE PROJECT.
- THE CONTRACTOR IS REQUIRED TO COMPLY WITH ALL PROVISIONS OF THE STATE ENCROACHMENT PERMIT NO. 0112-N-CS-0334 ISSUED TO THE CITY OF POINT ARENA FOR THOSE PORTIONS OF THE PROJECT THAT LIE WITHIN STATE HIGHWAY RIGHT-OF-WAY.
- IN ADDITION THE CONTRACTOR IS REQUIRED TO APPLY FOR AND OBTAIN A SEPARATE ENCROACHMENT PERMIT (KNOWN AS A "DOUBLE PERMIT") PRIOR TO THE START OF WORK. A FEE DEPOSIT OF \$492.00 IS REQUIRED AT THE TIME OF APPLICATION. CONTACT KELLEY SCHULTZ, CALTRANS PERMIT INSPECTOR IN UKIAH AT (707) 463-4726.

PRESERVATION OF SURVEY MONUMENTS

CONTRACTOR IS RESPONSIBLE FOR PRESERVATION AND/OR PERPETUATION OF ALL EXISTING MONUMENTS WHICH CONTROL SUBDIVISIONS, TRACTS, BOUNDARIES, EASEMENTS, OR PROVIDE SURVEY CONTROL WHICH WILL BE DISTURBED OR REMOVED DUE TO CONTRACTOR'S WORK. CONTRACTOR SHALL PROVIDE A MINIMUM OF 10 WORKING DAYS NOTICE TO CIVIL ENGINEER OR SURVEYOR IN RESPONSIBLE CHARGE OF THE WORK PRIOR TO DISTURBANCE OR REMOVAL OF EXISTING MONUMENTS. CIVIL ENGINEER OR SURVEYOR IN RESPONSIBLE CHARGE OF THE WORK SHALL COORDINATE WITH CONTRACTOR TO RESET MONUMENTS OR PROVIDE PERMANENT WITNESS MONUMENTS AND FILE THE REQUIRED DOCUMENTATION WITH THE COUNTY SURVEYOR PURSUANT TO BUSINESS AND PROFESSIONS CODE SECTION 8771.

NOTIFICATION FOR INSPECTIONS

APPROVAL OF ALL WORK SHALL BE NECESSARY AT THE COMPLETION OF EACH OF THE FOLLOWING STAGES OF WORK AND SUCH APPROVAL MUST BE OBTAINED BEFORE SUBSEQUENT STAGES OF WORK MAY BE COMMENCED. ADDITIONALLY, THE INSPECTOR SHALL BE NOTIFIED AT LEAST 72 HOURS IN ADVANCE OF ANY OF THE FOLLOWING STAGES OF WORK.

ANY CONSTRUCTION OR EXCAVATION REQUIRING INSPECTION THAT IS UNDERTAKEN WITHOUT INSPECTION IS SUBJECT TO RECONSTRUCTION AND REEXCAVATION AT THE CONTRACTOR'S EXPENSE.

INSPECTION MUST BE SCHEDULED FOR THE FOLLOWING WORK:

- COMPLETION AND PREPARATION OF EMBANKMENTS, EXCAVATIONS, AND SUBGRADE.
- CONSTRUCTION OF FORMS FOR ALL CONCRETE STRUCTURES, INCLUDING CURBS, GUTTERS, AND SIDEWALKS.
- EXCAVATION FOR STORM DRAINS AND CULVERTS.
- PLACING OF CONCRETE IN STRUCTURES, INCLUDING CURBS, GUTTERS, AND SIDEWALKS.
- PLACING OF STORM DRAINS AND CULVERT PIPES.
- EXCAVATION AND BACKFILL FOR STRUCTURES AND PIPES AND PUBLIC UTILITIES. WATER AND SEWER FACILITIES MUST BE INSPECTED BY THE COMPANY/AGENCY WITH JURISDICTION.
- CONSTRUCTION OF ROADSIDE DITCHES AND OTHER DRAINAGE WAYS.
- PLACING AND COMPACTING OF BASE MATERIAL. IF MORE THAN ONE COURSE OR TYPE OF BASE OR SUBBASE IS TO BE USED, APPROVAL SHALL BE NECESSARY FOR EACH COURSE AND/OR TYPE.
- PLACING OF PAVEMENT OR SURFACING. WITHIN 48 HOURS OF PAVING, ALL WATER VALVE BOXES, CLEANOUTS, AND MANHOLE FRAMES AND COVERS SHALL BE BROUGHT TO GRADE AND INSPECTED.
- STRIPING AND SIGNING LAYOUT AND PLACEMENT
- FINAL CLEAN-UP

PRIOR TO ANY WORK IN THE STATE HIGHWAY RIGHT-OF-WAY, INCLUDING BUT NOT LIMITED TO PLACING TRAFFIC CONTROL SIGNS AND CONES, THE CONTRACTOR MUST GIVE THE STATE'S REPRESENTATIVE A MINIMUM OF FIVE DAYS ADVANCE NOTICE (10 DAYS IF A LANE CLOSURE IS PROPOSED), AND RECEIVE APPROVAL BEFORE ANY BEGINNING WORK.

SITE WORK CONCRETE

- SEE CIVIL SHEETS FOR CONCRETE WITHIN THE PROJECT FOOTPRINT.
- ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19A OF THE CBC AND WITH THE PROVISIONS OF ACI 318. MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONCRETE PLACEMENT.
- UNLESS OTHERWISE STATED, CONCRETE SHALL BE HARDROCK CONCRETE AND SHALL MEET THE FOLLOWING DESIGN CRITERIA:

A. MINIMUM 28-DAY COMPRESSIVE STRENGTH = 3,000 PSI

B. MINIMUM CEMENT CONTENT = 5 SACKS/CUYD

C. MAXIMUM AGGREGATE SIZE = 3/4"

D. SLUMP = 4"±1"
- CONCRETE SHALL BE MIXED, PLACED, AND CURED IN ACCORDANCE WITH ACI 318.
- REINFORCING SHALL BE PLACED IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE."
- SURFACE OF ALL CONCRETE FLATWORK SHALL BE IN ACCORDANCE WITH CBC REQUIREMENTS FOR ACCESSIBLE ROUTES.
- ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING DOWELS, BOLTS, ANCHORS, PIPES AND SLEEVES SHALL BE SECURELY POSITIONED IN FORMS BEFORE PLACEMENT OF CONCRETE.
- WALKWAYS SHALL MEET THE ACCESSIBILITY REQUIREMENTS PROVIDED IN THE CALIFORNIA BUILDING CODE. LONGITUDINAL SLOPES OF WALKWAYS SHALL NOT EXCEED 5%. CROSS SLOPES OF WALKWAYS SHALL NOT EXCEED 2%. LANDINGS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.

ACCESSIBILITY NOTES

THE ENGINEER HAS SURVEYED/INSPECTED THE PATH OF TRAVEL (P.O.T.) AS INDICATED ON THE PLANS AND HAS FOUND IT TO BE, OR HAS INDICATED ON THE PLANS REMEDIAL WORK WHICH WOULD CAUSE IT TO BE, A BARRIER-FREE ACCESSIBLE ROUTE:

- AT LEAST 48" IN WIDTH; OR AS APPROVED BY CODE;
- WITHOUT ABRUPT LEVEL CHANGES EXCEEDING 1/8" IF BEVELED AT 1:2 MAXIMUM SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING 1/4";
- WITH A FIRM, STABLE, AND SLIP RESISTANT WALKING SURFACE;
- WITH A RUNNING SLOPE OF 1:20 OR LESS, UNLESS OTHERWISE INDICATED, AND A CROSS SLOPE OF 1:50 OR LESS;
- IS FREE OF OVERHEAD OBSTRUCTIONS WITHIN 80" ABOVE THE WALKING SURFACE; AND
- IS FREE OF OBJECTS WHICH PROTRUDE MORE THAN 4" BETWEEN THE HEIGHTS OF 27" AND 80" ABOVE THE WALKING SURFACE.



BROKAW DESIGN
 VFW ADA RAMP AND PARKING
 101 NORTH MAIN STREET, WILLITS, CALIFORNIA
 PROJECT SPECIFICATIONS

SHEET
G-3
 SEQ 3 OF 5
 DATE **08/2017**
 PROJ. NO.
417004

DSGN
 JGI
 DR
 SRH
 CHK
 TAH
 APVD

NO. **2**
 DATE **08/14/2017**
 SHEET **G3** ADDED
 REVISION
 BY **SRH**

SHW CONSULTING ENGINEERS & GEOLOGISTS, INC.
 WWW.SHW-ENGR.COM
 335 S. MAIN ST.
 WILLITS, CA 95490
 707-459-4518

VERIFY SCALES
 BAB IS ONE INCH ON ORIGINAL DRAWING
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

SAVED: 8/14/2017 4:12 PM SHEATH, PLOTTED: 8/14/2017 4:17 PM SAM R. HEATH
 \\Willstssr\Projects\2017\417004-VFW-Brokaw\Draws\417004-CIVIL.dwg

NOTES:

1. PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1.5% IN ALL DIRECTIONS, UDS.
2. WHERE PLAQUE R99B (CA), SIGN R99C (CA), OR SIGN R7-6B ARE INSTALLED, THE BOTTOM OF THE SIGN OR PLAQUE PANEL SHALL BE A MINIMUM OF 7'-0" ABOVE THE SURROUNDING SURFACE.
3. CURB RAMPS SHALL CONFORM TO THE DETAILS SHOWN ON REVISED STANDARD PLAN RSP A88A.
4. THE WORDS "NO PARKING" SHALL BE PAINTED IN WHITE LETTERS NO LESS THAN 1'-0" HIGH AND LOCATED SO THAT IT IS VISIBLE TO TRAFFIC ENFORCEMENT OFFICIALS. SEE REVISED STANDARD PLAN RSP A90B FOR DETAILS OF THE "NO PARKING" PAVEMENT MARKING.
5. A R100B (CA) SIGN SHALL BE POSTED IN A CONSPICUOUS PLACE AT EACH ENTRANCE TO OFF-STREET PARKING FACILITIES OR IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL. THE SIGN SHALL INCLUDE THE ADDRESS WHERE THE TOWED VEHICLE MAY BE RECLAIMED AND THE TELEPHONE NUMBER OF THE LOCAL LAW ENFORCEMENT AGENCY.
6. ACCESSIBLE PARKING ONLY SIGN SHALL BE SIGN R99C (CA) OR SIGN R99 (CA) WITH PLAQUE R99B (CA).
7. ALL ADA WORK TO BE COMPLETED IN CONFORMANCE WITH CALIFORNIA BUILDING CODE CHAPTER 11B.



SIGN R100B (CA)
SEE NOTES 2 AND 6



SIGN R99 (CA)
SEE NOTE 6



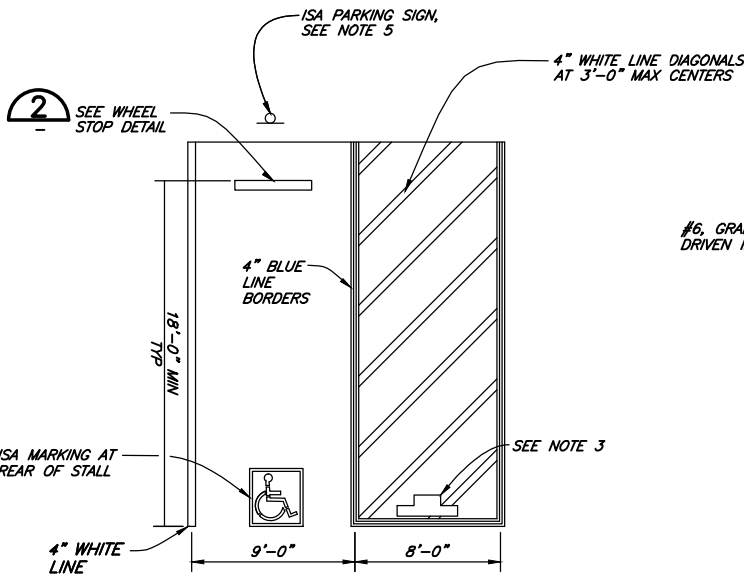
SIGN R99C (CA)
SEE NOTES 2 AND 6



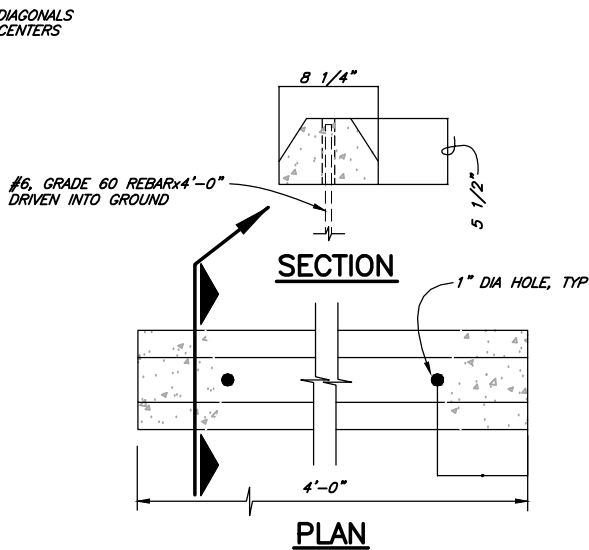
SIGN R99B (CA)
SEE NOTES 2 AND 6



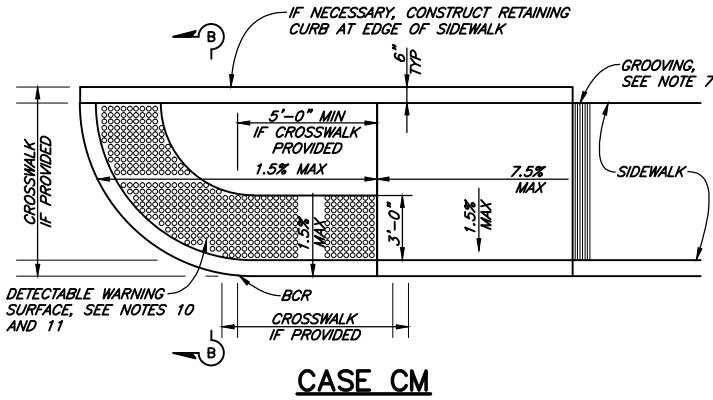
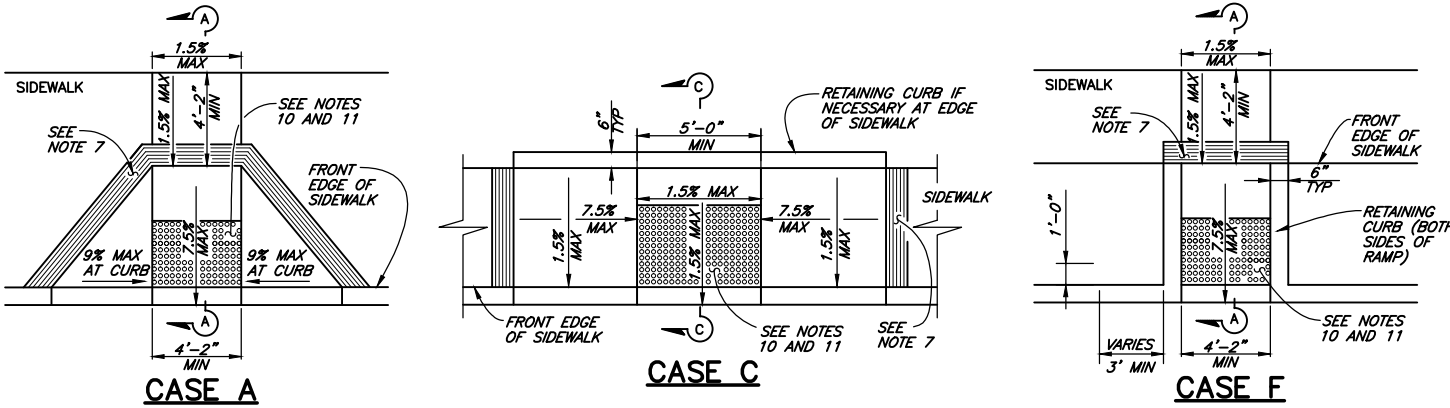
SIGN R7-8b
SEE NOTE 2



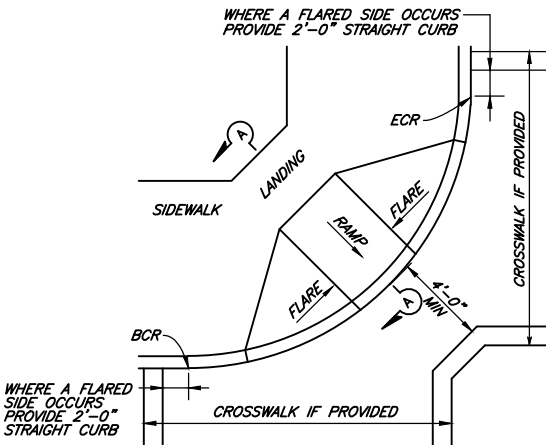
DETAIL 1
NTS C-1
(ADA PARKING STALL)



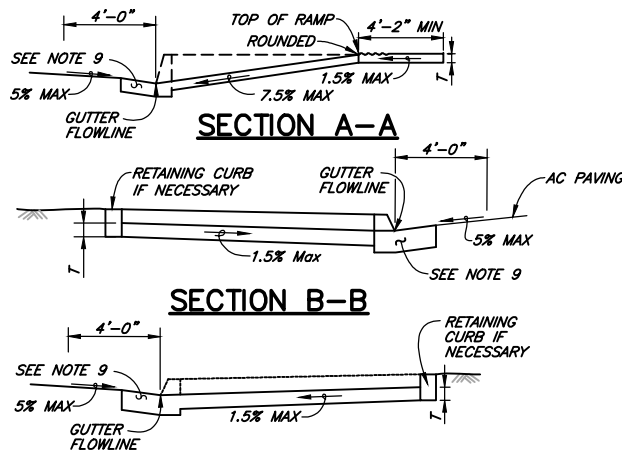
DETAIL 2
NTS
(WHEEL STOP)



CASE CM



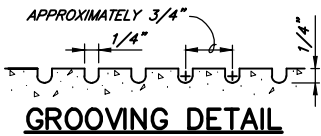
DETAIL B
TYPICAL ONE-RAMP
CORNER INSTALLATION
SEE NOTES 1 AND 3



SECTION A-A

SECTION B-B

SECTION C-C



GROOVING DETAIL

NOTES:

1. AS SITE CONDITIONS DICTATE, CASE A THROUGH CASE G CURB RAMPS MAY BE USED FOR CORNER INSTALLATIONS SIMILAR TO THOSE SHOWN IN DETAIL A AND DETAIL B. THE CASE OF CURB RAMPS USED IN DETAIL A DO NOT HAVE TO BE THE SAME. CASE A THROUGH CASE G CURB RAMPS ALSO MAY BE USED AT MID BLOCK LOCATIONS, AS SITE CONDITIONS DICTATE.
2. IF DISTANCE FROM CURB TO BACK OF SIDEWALK IS TOO SHORT TO ACCOMMODATE RAMP AND 4'-2" PLATFORM (LANDING) AS SHOWN IN CASE A, THE SIDEWALK MAY BE DEPRESSED LONGITUDINALLY AS IN CASE B, OR C OR MAY BE WIDENED AS IN CASE D.
3. WHEN RAMP IS LOCATED IN CENTER OF CURB RETURN, CROSSWALK CONFIGURATION MUST BE SIMILAR TO THAT SHOWN FOR DETAIL B.
4. AS SITE CONDITIONS DICTATE, THE RETAINING CURB SIDE AND THE FLARED SIDE OF THE CASE G RAMP SHALL BE CONSTRUCTED IN REVERSED POSITION.
5. IF LOCATED ON A CURVE, THE SIDES OF THE RAMP NEED NOT BE PARALLEL, BUT THE MINIMUM WIDTH OF THE RAMP SHALL BE 4'-2".
6. SIDE SLOPE OF RAMP FLARES VARY UNIFORMLY FROM A MAXIMUM OF 9.0% AT CURB TO CONFORM WITH LONGITUDINAL SIDEWALK SLOPE ADJACENT TO TOP OF THE RAMP, EXCEPT IN CASE C AND CASE F.
7. THE CURB RAMP SHALL BE OUTLINED, AS SHOWN, WITH A 1'-0" WIDE BORDER WITH 1/4" GROOVES APPROXIMATELY 3/4" ON CENTER. SEE GROOVING DETAIL.
8. TRANSITIONS FROM RAMPS AND LANDING TO WALKS, GUTTERS OR STREETS SHALL BE FLUSH (NO LIP) AND FREE OF ABRUPT CHANGES.
9. COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO AND WITHIN 48" INCHES OF THE CURB RAMP SHALL NOT BE STEEPER THAN 1:20 (5.0%). GUTTER PAN SLOPE SHALL NOT EXCEED 1" OF DEPTH FOR EACH 2'-0" OF WIDTH.
10. CURB RAMPS SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND 3'-0" DEPTH OF THE RAMP. A 4'-0" WIDE DETECTABLE WARNING SURFACE MAY BE USED ON A 4'-2" WIDE CURB RAMP. DETECTABLE WARNING SURFACES SHALL CONFORM TO THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS.
11. THE EDGE OF THE DETECTABLE WARNING SURFACE NEAREST THE STREET SHALL BE BETWEEN 6" AND 8" FROM THE GUTTER FLOWLINE.
12. SIDEWALK AND RAMP THICKNESS, "T", SHALL BE 3" MINIMUM.
13. UTILITY PULL BOXES, MANHOLES, VAULTS AND ALL OTHER UTILITY FACILITIES WITHIN THE BOUNDARIES OF THE CURB RAMP WILL BE RELOCATED OR ADJUSTED TO GRADE BY THE OWNER PRIOR TO, OR IN CONJUNCTION WITH, CURB RAMP CONSTRUCTION.
14. DETECTABLE WARNING SURFACE MAY HAVE TO BE CUT TO ALLOW REMOVAL OF UTILITY COVERS WHILE MAINTAINING FULL DETECTABLE WARNING WIDTH AND DEPTH.
15. SEE CALTRANS STD PLANS A88A, A88B FOR MORE DETAIL.

RSP A88A
SEE NOTE 3



VERIFY SCALES		B&B IS ONE INCH ON ORIGINAL DRAWING		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	
CONSULTING ENGINEERS & GEOLOGISTS, INC.		WWW.SHN-ENGR.COM		335 S. MAIN ST. WILLITS, CA 95490	
DESIGN		JGI		BY	
DR		SRH		REVISION	
CHK		TAH		DATE	
APVD		NO.		NO.	
BROKAW DESIGN		VFW ADA RAMP AND PARKING		SHEET	
101 NORTH MAIN STREET, WILLITS, CALIFORNIA		ADA DETAILS		C-2	
SEQ 5 OF 5		DATE 08/2017		PROJ. NO. 417004	

WIRING NOTES

1.

IF MORE THEN 3 CURRENT CARRYING CONDUCTORS ARE INSTALLED PER RACEWAY. CONTRACTOR SHALL DEMONSTRATE COMPLIANCE WITH NEC TABLE 310.15(B) (3) (a).
- 1.1.

MAX (9) #12 AWG FOR 20A CIRCUITS.
- 1.2.

MAX (6) #10 AWG FOR 30A CIRCUITS.
- 1.3.

MAX (6) #8 AWG FOR 40A CIRCUITS.
2.

FOR BRANCH CIRCUITS DO NOT EXCEED NEC CONDUIT FILL REQUIREMENTS. PROVIDE MAX:
- 2.1.

MAX (9) #12 AWG THHN PER 3/4" EMT CONDUIT.
- 2.2.

MAX (6) #10 AWG THHN PER 3/4" EMT CONDUIT.
- 2.3.

MAX (4) #8 AWG THHN PER 3/4" EMT CONDUIT.
- 2.4.

MAX (3) #6 AWG THHN PER 3/4" EMT CONDUIT.
- 2.5.

MAX (2) #4 AWG THHN PER 3/4" EMT CONDUIT.
- 2.6.

MAX (3) #4 AWG THHN PER 1" EMT CONDUIT.
- 2.7.

MAX (2) #2 AWG THHN PER 1" EMT CONDUIT.
3.

FOR 20A CIRCUITS PROVIDE MINIMUM:
- 3.1.

UP TO 75FT - #12 AWG
- 3.2.

75FT TO 150FT - #10 AWG
- 3.3.

150FT TO 250FT - #8 AWG
4.

ADHERE TO VOLTAGE DROP LIMITS AS SHOWN BELOW:

SUMMARY OF VOLTAGE DROP LIMITS				
CIRCUIT VOLTS (V)	2% VOLTAGE DROP (V)	3% VOLTAGE DROP (V)	TOTAL LOSS (V)	
120	2.4	3.6	6.0	
208	4.2	6.2	10.4	
240	4.8	7.2	12.0	
277	5.5	8.3	13.9	
480	9.6	14.4	24.0	

VOLTAGE DROP FOR COMMON COPPER WIRE GAUGES AND CURRENT LOADS												
WIRE	CIRCUIT AMPS	MAXIMUM FEEDER LENGTH					MAXIMUM BRANCH CIRCUIT LENGTH					
		120	208	240	277	480	120	208	240	277	480	
14	12	39	67	78	90	156	58	101	117	135	233	
12	16	46	80	93	107	185	69	120	139	160	278	
10	24	48	83	96	111	192	72	125	144	166	288	
8	32	57	99	115	132	229	86	149	172	199	344	
6	40	73	127	146	169	293	110	190	220	253	439	
4	52	89	154	178	206	356	134	232	267	309	535	
2	72	103	178	206	237	412	154	267	309	356	617	
0	96	123	212	245	283	490	184	319	368	424	735	
00	108	137	238	274	317	549	206	357	412	475	823	
0000	144	163	283	327	377	654	245	425	490	566	980	
250 (kcmil)	164	170	294	340	392	679	255	441	509	588	1019	
300	184	181	314	362	418	725	272	471	543	627	1087	
350	200	195	338	390	450	779	292	506	584	675	1169	
500	248	224	388	448	517	896	336	582	672	776	1344	

NORTH MAIN ST.

1 ELECTRICAL SITE PLAN

SCALE: 1" = 10'

2 STORAGE SHED ELECTRICAL PLAN

SCALE: 1/4" = 1' - 0"

ELECTRICAL SYMBOLS

- GFCI

GROUND FAULT INTERRUPTED CIRCUIT
- MS

MOTION DETECTOR
- 110V / 15A DUAL RECEPTICLE, TYP.
WP = WATER-PROOF
20A = 20 AMP
- SURFACE MOUNTED ELECTRICAL
CONDUIT AND CIRCUIT, TYP.
- WALL MOUNT LED LIGHT FIXTURE:
LITHONIA #MRW LED 1 10A700/40K
SR3 NVIKT OUR DDBXD
WITH INTEGRAL PHOTOCELL AND
MOTION DETECTOR TO REDUCE
LIGHT OUTPUT BY 50% WHEN AREA
UNOCCUPIED.
- WALL MOUNT LED LIGHT FIXTURE:
LITHONIA #TWS LED P1 50K 120 PE
WITH INTEGRAL PHOTOCELL.

SHEET NOTES - SITE ELECTRICAL

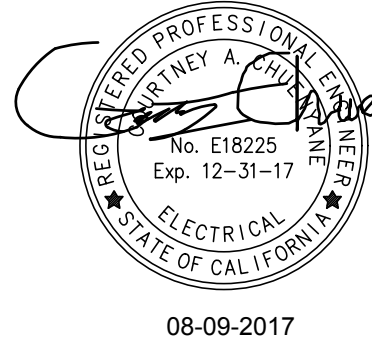
- A. ALL EXTERIOR MOUNTED DEVICES SHALL BE PROVIDED WITH WP OR NEMA 3R RATING.
- B. PROVIDE HUB TYPE FITTINGS ON EXTERIOR CONDUITS.
- C. ALL EMPTY BOXES SHALL BE PROVIDED WITH BLANK COVER PLATES.
- D. ALL EXTERIOR COVER PLATES SHALL BE STAINLESS STEEL.
- E. ALL ELECTRICAL CONSTRUCTION SHALL BE COORDINATED AND MAINTAIN WALL AND CEILING RATING INDICATED ON THE ARCHITECTURAL DOCUMENTS.
- F. PAINT ALL SURFACE MOUNTED CONDUITS AND BOXES TO MATCH ADJACENT SURFACE FINISHES.

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

SEAL:

CONSULTANT:



BrokawDesign

P.O. BOX 3103
ROHNERT PARK, CA 94927

WWW.BROKAWDESIGN.COM

PROJECT:

ACCESSIBLE
RAMPS

WILLITS VETERAN'S
MEMORIAL BUILDING

189 NORTH MAIN
STREET
WILLITS, CA 95490

SHEET NAME:

ELECTRICAL
PLANS

ISSUE DATE: 08/09/2017

PLAN CHECK SUBMITTAL

DRAWN BY:

DESIGNER:

PROJ MGR: CLB

PEER REVIEW: --

SHEET NUMBER:

E101

A

B

C

D

E

ELECTRICAL SPECIFICATIONS

1.01- RELATED DOCUMENTS

- A. The General Conditions, Supplementary Conditions and Division 1 apply to the electrical work.

1.02 - WORK INCLUDES

- A. Work included in this section: All materials, labor, equipment, services, and incidentals necessary to install the Electrical Work as shown on the drawings and as specified hereinafter, including, but not limited to the following:
- Branch circuit wiring, wiring devices and connections to all equipment requiring electrical service.
 - Lighting fixtures with hangers, anchors and supports. Lighting Controls.
 - Raceways, outlet boxes and power connections for security and access control system. Coordinate all requirements with Owner.
 - Sleeves, inserts and blocking in cast concrete as required for work in this section.
 - All required incidental work, such as excavating and backfilling, roof flashing, and testing.
 - Any other electrical work as might reasonably be implied as required, even though not specifically mentioned herein or shown on the drawings.

1.03 - INCORPORATED DOCUMENTS

- A. Requirements of the general conditions, supplementary conditions, and division 1. sections apply to all work in this section, unless modified herein.
- B. Published specifications, standard tests or recommended methods of trade, industry or government organizations apply to work of this section where cited by abbreviations noted below, unless modified herein.
- NATIONAL ELECTRICAL CODE, LATEST EDITION, (NEC).
 - NEMA STANDARDS
 - UNDERWRITERS' LABORATORIES, INC. (UL).
 - LOCAL UTILITY COMPANY REGULATIONS.
 - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

1.04 - CONDITIONS AT SITE:

- A. Visit to site is required of all bidders prior to submission of bid. All will be held to have familiarized themselves with all discernable conditions and no extra payment will be allowed for work required because of these conditions, whether specifically mentioned or not.

1.05 - QUALITY ASSURANCE

- A. Conformance:
- All work shall conform to the applicable requirements of Article 1.03 above.
 - The Contractor shall notify the Architect, prior to submission of bid, about any part of the design which fails to comply with above-mentioned requirements.
 - If after contract is awarded, minor changes and additions are required by aforementioned authorities, even though such work is not shown on drawings or covered in specifications, they shall be included at Contractor's expense.
- B. Coordination:
- The Contractor shall become familiar with the conditions at the job site, and with the drawings and specifications and plan the installation of the electrical work to conform with the existing conditions and that shown and specified so as to provide the best possible assembly of the combined work of all trades.
 - The Contractor shall work out in advance all "tight" conditions, involving all trades and if found necessary, supplementary drawings shall be prepared by this Contractor, for the Architect's approval, before work proceeds in these areas. No additional costs will be considered for work which must be relocated due to conflicts with the work of other trades.

1.06 - SUBMITTALS

- A. Product Data:
- Comply with the General Provisions of the Contract.
 - Within 15 days after award of the Contract, submit:
 - Complete material list of all items proposed to be furnished and installed under this Section, including but not limited to the following items: Circuit breakers, lighting fixtures, conduit, devices, enclosures, etc.
 - Manufacturers' specifications and other data required to demonstrate compliance with the specified requirements.
 - Manufacturers' recommended installation procedures which, when approved by the Architect, shall become the basis for inspecting and accepting or rejecting actual installation procedures used on the work.
3. Shop Drawings: Furnish shop drawings and/or equipment cuts for the following:
- Light Fixtures
 - Lamps
 - Ballasts
 - Lighting Control System

1.07- MATERIALS

- A. Materials of the same type or classification, used for the same purpose, shall be the product of the same manufacturer.

1.08 - ACCEPTABLE MANUFACTURERS

- A. Materials shall be of make mentioned elsewhere in this specification. All materials shall be the best of their several kinds, perfectly new and approved by the Underwriters' Laboratories.
- B. Where material, equipment, apparatus or other products are specified by manufacturer, brand name, type or catalog number, such designation is to establish standards of desired quality, style and utility and shall be the basis of the bid. Materials so specified shall be furnished under the contract unless changed by written approval of the Owner's Representative. Where two or more designations are listed, choice shall be optional with this Contractor, but this Contractor must submit his choice for final approval.

1.09 - DELIVERY, STORAGE AND HANDLING

- A. Protection: Use all means necessary to protect the materials of this Section before, during, and after installation and to protect the work and materials of all trades.
- B. Delivery and Storage: Deliver all materials to the job site in their original containers with all labels intact and legible at time of use. Store in strict accordance with approved manufacturers' recommendations.
- C. Replacements: In the event of damage, immediately make all repairs and replacements necessary to the approval of the Architect and at no additional cost to the Owner.
- D. This Contractor shall personally, or through an authorized representative, check all materials upon receipt at jobsite for conformance with approved shop drawings and/or plans and specifications.

1.10 - SCHEDULING/SEQUENCING

- A. Place orders for all equipment in time to prevent any delay in construction schedule or completion of project. If any materials or equipment are not ordered in time, additional charges made by equipment manufacturers to complete their equipment in time to meet the construction schedule, together with any special handling charges, shall be borne by this Contractor.

1.11 - REQUIREMENTS

- A. The contract drawings indicate the extent and general arrangements of the conduit wiring systems, etc. If any departures from the contract drawings are deemed necessary by the Contractor, details of such departures and the reasons therefore shall be submitted as soon as practicable, and within 10 days after award of the electrical contract.
- B. UNLESS MATERIAL LIST AND DATA IS RECEIVED AS A COMPLETE AND ALL INCLUSIVE SUBMITTAL WITHIN THE STIPULATED TIME ALL ITEMS SHALL BE PROVIDED AS SPECIFIED- WITH NO DEVIATIONS PERMITTED.
- C. Any and all additional costs incurred by the substitution of electrical material or equipment, or installation thereof, whether architectural, structural, plumbing, mechanical or electrical, shall be borne by the Contractor under this section.

1.12 - IDENTIFICATION

- A. Each branch circuit of panelboards to have a permanently fixed number with directory, mounted under celluloid on inside of cabinet door, showing circuit numbers, room number feed and typewritten description of equipment supplied by breakers. Where circuits are altered in existing panels, the panel directory shall be updated.

PART 2 - PRODUCTS:

2.01 - GENERAL

- A. Materials shall be new, packed in original containers, installed and turned over to the Owner free of defects.
- B. Materials shall bear Underwriters' Laboratory label.
- C. Furnish equipment and materials for any one system by same manufacturer.

2.02 - MATERIALS

- A. Conduit

4. Conduit shall be delivered to the site of construction in the original bundles. Each length shall bear the label of the National Board of Fire Underwriters. All conduit subjected to rough usage while on the job, before installation, shall be removed from the premises upon notice.
5. Raceway and boxes located as indicated on drawings and at other locations required for splices, taps, wire pulling, equipment connections, and compliance with regulatory requirements. Raceway and boxes are shown in approximate locations unless dimensioned. Provide raceway to complete wiring system.
6. Rigid Steel: Hot dipped galvanized, used exposed and in concrete slab, with completely watertight fittings.
7. Conduit Bends - Long Radius.
8. Provide conduit seals at all concrete slab penetrations.
9. Contractor shall vary all existing concrete slab before core drilling.
10. All indoor conduit shall be installed concealed in walls or above ceiling unless noted otherwise
11. Installation:

- a. Outdoor Locations:
- Above Grade: Provide rigid steel conduit. Provide cast metal outlet, pull, and junction boxes.
 - Flexible Connection: WP Flexible metal conduit.
 - Watertight and corrosion resistant fittings, couplings, boxes, etc.
- b. Indoor Locations:
- Exposed Dry Locations: Provide galvanized rigid steel conduit or intermediate metal conduit. Provide cast boxes. Electric Metallic Tubing may be provided in unfinished areas.
 - Concealed Dry Locations: Provide electrical metallic tubing for sizes less than 2-inches. Provide galvanized rigid steel or intermediate steel conduit in sizes 2-inches or larger. Provide cast or sheet metal boxes.

B. Conduit Fittings:

1. Fittings for rigid steel and flexible type conduit shall be of a type as required, malleable iron or steel, galvanized or sherardized.

C. Outlet Boxes and Junction Boxes:

1. Galvanized one piece steel knockout type, unless otherwise noted, sizes as required for conditions at each outlet or as noted, not smaller than 2 inches wide by 4 inches high, ganged where multiple switch locations are indicated.
2. Outlet boxes located on exterior to be flush type with cast aluminum gasketed covers; spring lid type for receptacles.
3. Surface mounted outlet boxes for wet locations, cast aluminum FS or FD type with gasketed spring lid cover.
4. All connectors from conduit to junction or outlet boxes shall have integral insulated throats.

D. Power Wire and Cable:

1. Copper 90% conductivity. Solid copper for conductors smaller than No. 8 AWG. Stranded copper for conductors No. 8 AWG and larger. No conductors smaller than No. 12 AWG, except as noted.
2. Insulation type: #12 to #1 AWG: THWN for wet locations and THHN for dry locations. #1/0 through #4/0 AWG: XHHW (55 Mils), 250MCM and larger: XHHW (65 Mils).
3. Conductors No. 8 and larger and as otherwise noted on drawings shall be stranded.
4. Connections to devices from "through_feed" branch circuit conductors to be made with pigtail, with no interruption of the branch circuit conductors.
5. Neutral conductor identified by white outer covering braid, with different tracers of "EZ" numbering tags used where more than one neutral conductor is contained in a single unit.
6. Neatly arrange and "marlin" wired in panels and other equipment with "T and B Ty-rap" or approved equal plastic type strapping.
7. Label each wire of each electrical system in each pull box, junction box, outlet box, terminal cabinet, and panelboard in which it appears with "EZ" numbering tags.
8. All wire and cable shall bear the Underwriters' Label, brought to the job in unbroken packages; wire color coded as follows:

Voltage	Phasing	A Phase	B Phase	C Phase	Neutral
120/240	1p3w	Black	Red	-	White
120/208	3p 4w	Black	Red	Blue	White
208	3w	Black	Red	Blue	-
277/480	3p 4w	Brown	Orange	Yellow	White
480	3w	Brown	Orange	Yellow	-

F. Switches: Leviton, or equal, rated 20 amp, 277 volt, quiet type, white color, specification grade, unless otherwise noted.

- Single Pole _No. 5521-W
- Three Way _No. 5523-W
- Four Way - No 5524-W
- Momentary contact- No. 1256-W
- Dimmer Switches- Lutron - Lynco Series Style.
- Wall mounted occupancy Sensors- Lutron maestro Style

G. Receptacles: Leviton or equal, 125 volts, specification grade, conventional style, white color, except as noted:

- 20A 3PG 125 volt duplex
- 20A 3PG 125 volt ground fault interrupter receptacle
- 20A 3PG 125 volt duplex
- 20A 3PG 125 volt isolated ground receptacle, 3 wire, orange color 1 I.G.
- Special appliances receptacles: Match NEMA configuration of equipment plug.

H. Plates: Leviton white, or equal, except as noted:

- For Indoor flush outlet boxes, for switches and receptacles: standard stainless steel, .030" Type 430.
- For Indoor telephone/data outlets: single gang with telephone jacks as directed by Owner's Representative, color per Owner's Representative.
- For Indoor TV outlets: single gang with cable TV jack, color per Owner's Representative.
- Plates for surface mounted outlets: galvanized steel unless otherwise noted.
- Plates for ground fault interrupter receptacles on building exterior: Sierra No. WPH_GL.
- Weatherproof duplex receptacle plates for exterior locations and for all type FS or FD boxes _Hubbell #5221 or equal.

I. Splice Insulation: "Scotch" electrical tape with vinyl plastic backing or rubber tape with protective friction tape for interior work.

J. Grounding:

- Provide and install grounding system as noted on the Drawings.
- Provide No. 12 stranded (green) THHN conductor from outlet box to ground screw of every receptacle except isolated ground receptacles.
- Ground all isolated sections of metallic raceways.
- Provide #12 minimum stranded (green) THHN conductor sized per NEC, or as noted, connected continuously throughout branch circuit for all circuits, bonded to panel ground bus, and to all electrical devices and equipment enclosures.

K. Lighting Fixtures:

- As listed in fixture schedule, and on drawings as indicated by type letter, completely lamped with new lamps, properly operating at time of acceptance of electrical work.

2. Lamps:

- a. Unless otherwise noted, lamps described on the Drawings and in these Specifications, are ANSI nomenclature; lamps shall be manufactured by Osram/Sylvania, North American Philips, or approved equal.

3. Plastic:

- a. Translucent Plastic Components: Translucent plastic shall be made of smooth, white, 100 percent virgin acrylic material.

- b. Plastic Lenses: Lenses shall be uncolored 100 percent virgin acrylic plastic.

4. Finish on Metal Parts:

- a. Steel Reflectors: Unless otherwise specified, the reflector surface finish shall be of synthetic white enamel or polyester powder coating.
- b. Aluminum Reflectors: Reflecting surfaces shall be provided with either a specular or diffuse finish as indicated.
- c. Non-Reflecting Surfaces: Unless otherwise specified, the finish on all non-reflecting exterior surfaces shall be aluminum oxide or aluminum; white, gray or aluminum paint on steel; nickel or chromium plating on copper alloy. Fastening devices shall be nickel, chromium, cadmium or zinc plated.

PART 3 - EXECUTION

3.01 - INSPECTION

- Q. Examine the areas and conditions under which the work of this Section will be installed. Correct conditions detrimental to the proper and timely completion of the Work. Do not proceed until unsatisfactory conditions have been corrected.

3.02 - PREPARATION

A. Drawings

- The general arrangement and location of wiring and equipment is shown on the electrical drawings and shall be installed in accordance therewith, except for minor changes required by conflict with the

work of other trades.

2. Drawings indicate the circuit and panel which supplies each device or fixture. Provide and install conduit and conductors to make all connections from panel to nearest device and from first device to additional devices on same circuit. Conduit size and fill shall satisfy NEC requirements. Two or three different phases supplied by a 3 phase panel may share a single neutral only if circuit positions are adjacent in the panel and the breakers will have to be provided with a handle tie or multi-pole breaker per NEC requirements. Do not exceed 4 #12 or 3 #10 conductors in a 1/2" conduit, 7 #12 or 5 #10 in a 3/4" conduit, or 11 #12 or 9 #10 in a 1" conduit, unless otherwise noted. If more than three current carrying conductors are installed in one conduit, conductor size shall be increased as required per Note 8 to Table 310.16 of the NEC.
3. Control wiring is generally not shown on the plans. Contractor shall refer to control diagrams and provide and install all wiring and raceways required to make all interconnections.
4. All branch circuit wiring No. 12 or larger as noted, all control wiring No. 14 or larger.
5. All dimensions, together with locations of doors, partitions, etc. are to be taken from the Architectural Drawings, verified at site by this Contractor.
6. Maintain "as-constructed" Record Drawings at all times, showing the exact location of concealed conduits and feeders installed under this contract, and actual numbering of each circuit. Upon completion of work and before acceptance can be considered, this Contractor must forward to the Owner's Representative corrected Record Drawings in Autocad format indicating the electrical work as installed.

3.03 - FIELD QUALITY CONTROL

- A. All workmanship shall be first class and carried out in a manner satisfactory to and approved by the Architect.
- B. This Contractor shall personally, or through an authorized and competent representative, constantly supervise the work and so far as possible keep the same foreman and workmen on the job throughout.

3.04 - INSTALLATION/APPLICATION/ERECTION

- A. Cutting, repairing and structural reinforcing for the installation of this work shall be done by the General Contractor in conformance with the Architect's requirements.

3.05 - ADJUSTING AND CLEANING

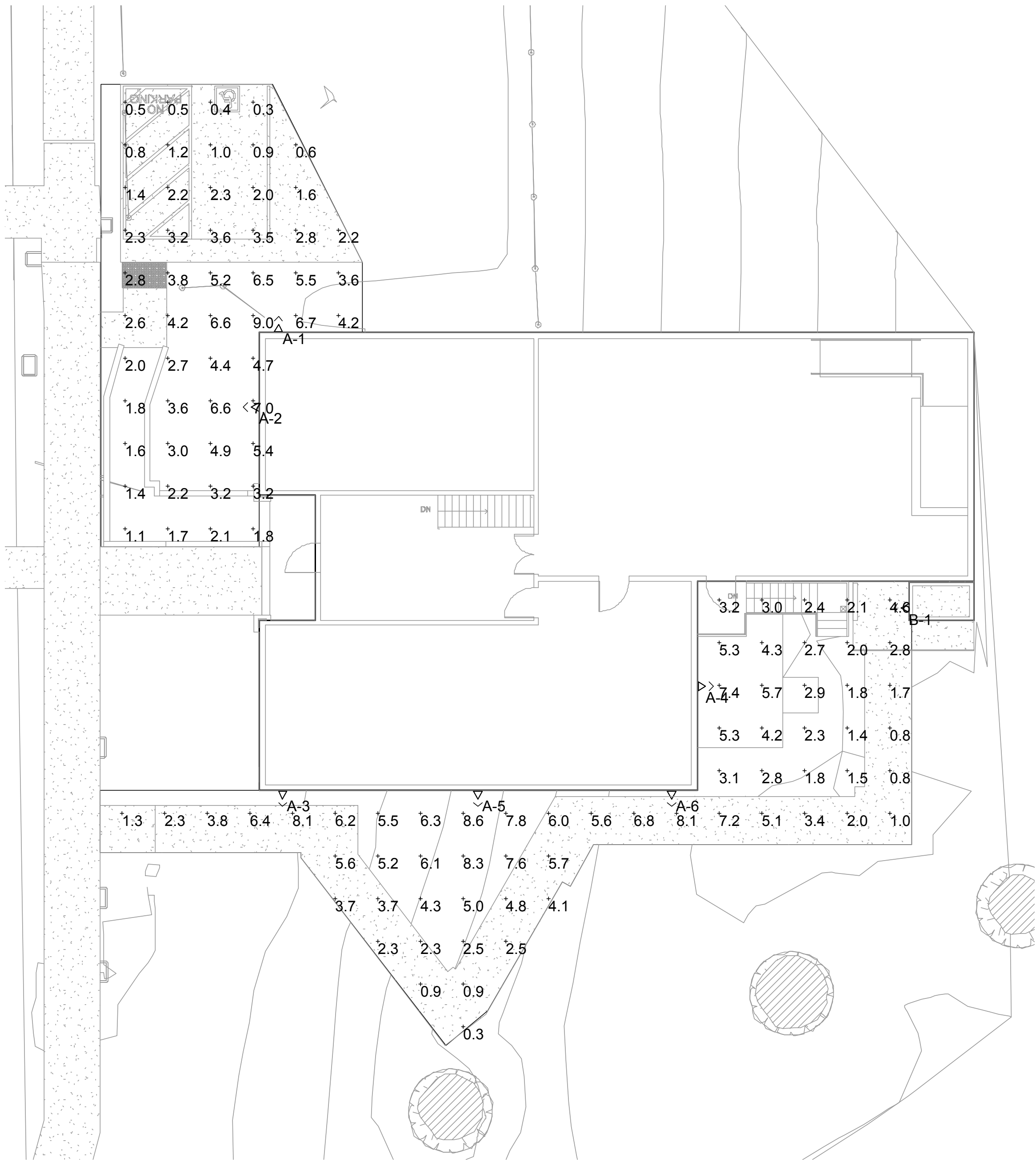
- A. All equipment, lighting fixtures, etc., shall be left in clean condition, with all shipping and otherwise unnecessary labels removed therefrom.

3.06 - SCHEDULES





- A. Coordination: Coordinate installation of electrical items with the schedule for other work to prevent unnecessary delays in the total Work.

3.07 - TESTING

- A. Lighting Systems:
- The lighting systems shall be checked for proper local controls and operation of entire installation, including the operation of the low voltage lighting control system.
- B. Power Distribution System:
- Test each individual circuit at each panelboard with equipment connected for proper operation. Inspect the interior of each panel.
 - Check verification of color coding, tagging, numbering, and splice make up.
 - Verify that all conductors associated with each circuit are in same conduit.
 - Demonstrate that all lights, jacks, switches, outlets and equipment operate satisfactorily and as called for.



1 PHOTOMETRIC PLAN
SCALE: 1" = 10'

Schedule										
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Wattage
 	A	6	Lithonia Lighting	MRW LED 2 10A700/40K SR3 MVOLT	MRW LED WITH 2 MODULES, 20 LED's, 700mA Driver, 4000K COLOR TEMPERATURE, TYPE 3 LENS	Outdoor Wall Pack Luminaire to IES LM-79-08. LUMINAIRE OUTPUT: 4047 Lms.	1	MRW_LED_2_10A70_0_40K_SR3_MVOLT.ies	4067	47
 	B	1	Lithonia Lighting	TWS LED 1 50K 120 PE	TWS LED WALLPACK	LED	1	TWS_LED_1_50K_120_PE.ies	1021	18.7

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

SEAL:

CONSULTANT:



08-09-2017

BrokawDesign

P.O. BOX 3103
ROHNERT PARK, CA 94927

WWW.BROKAWDESIGN.COM

PROJECT:

ACCESSIBLE
RAMPS

WILLITS VETERAN'S
MEMORIAL BUILDING

189 NORTH MAIN
STREET
WILLITS, CA 95490

SHEET NAME:

PHOTOMETRIC
PLAN

ISSUE DATE:	08/09/2017
PLAN CHECK SUBMITTAL	
DRAWN BY:	
DESIGNER:	
PROJ MGR:	CLB
PEER REVIEW:	--
SHEET NUMBER:	

E102